

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING DO-C9	PAGE 1 OF 78 59
2. CONTRACT NO. NNL04AA03B	3. SOLICITATION NO. 1-123-RBJ.1437	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 6/5/03	6. REQUISITION/PURCHASE NO. RBJ.1437
7. ISSUED BY NASA Langley Research Center Bldg. 1195A, Room 105 MS 144/Bid Distribution Office Hampton, VA 23681			CODE 144	8. ADDRESS OFFER TO (If other than Item 7) See Block 7.	

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder"

**SOLICITATION**

9. Sealed offers in original and 10 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Bldg 1195, Room 105 until **4:00 p.m.** local time, on August 8, 2003 (date).  
CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL: <input checked="" type="checkbox"/>	A. NAME <b>Lisa M. Harvey</b>	B. TELEPHONE NO. (NO COLLECT CALLS)			C. EMAIL ADDRESS <b>rome+board@larc.nasa.gov</b>
		AREA CODE (757)	NUMBER 864-2444	EXT. N/A	

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**OFFER (Must be fully completed by offeror)**

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within \_\_\_\_\_ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, clause No. 52-232-8)	<input checked="" type="checkbox"/> 10 CALENDAR DAYS N/A %	<input type="checkbox"/> 20 CALENDAR DAYS N/A %	<input type="checkbox"/> 30 CALENDAR DAYS N/A %	<input type="checkbox"/> CALENDAR DAYS N/A %
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14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION). For offerors and related documents numbered and dated:	AMENDMENT NO	DATE	AMENDMENT NO	DATE
	1-2	6/12-6/23/03	6-7-8	7/23-7/25-7/30/03
	3-4-5	7/2-7/10-7/15/03	9-10-11	7/31-7/31-8/1/03

15. NAME AND ADDRESS OF OFFEROR Sverdrup Technology, Inc. 600 William Northern Blvd. Tullahoma, TN 37388	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (TYPE OR PRINT) Rogers F. Starr, President
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15B. TELEPHONE NO. (Include area code) (931) 455-6400	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER <input type="checkbox"/> SUCH ADDRESS IN SCHEDULE	17. SIGNATURE <i>Rogers F. Starr</i>	18. OFFER DATE 8/8/03
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**AWARD (To be completed by Government)**

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT \$354,662	21. ACCOUNTING AND APPROPRIATION 4200043570 and RBJ.1437 (Complete)	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C. 2304(c) ( ) <input type="checkbox"/> 41 U.S.C. 253(c) ( )		23. SUBMIT INVOICES TO ADDRESS SHOWN IN: (4 copies unless otherwise specified)	ITEM G-3
24. ADMINISTERED BY (If other than Item 7)	CODE	25. PAYMENT WILL BE MADE BY See Section G-3	CODE 175

3. NAME OF CONTRACTING OFFICER (Type or print) David H. Jones	27. UNITED STATES OF AMERICA <i>David H. Jones</i> (Signature of Contracting Officer)	28. AWARD DATE 1-30-2004
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IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

**PART I - THE SCHEDULE****SECTION B - SUPPLIES OR SERVICES AND PRICE/COSTS****B.1 SUPPLIES AND/OR SERVICES TO BE FURNISHED (MAY 1999)**

The Contractor shall provide all resources (except as may be expressly stated in this contract as furnished by the Government) necessary to perform the requirements delineated in Exhibit A, Statement of Work (SOW) as listed below. This contract contains recurring and non-recurring work. The base contract contains the recurring work and the Indefinite-Delivery Indefinite-Quantity (IDIQ) portion contains the non-recurring work. In determining the applicability of pertinent clauses, the term "base" portion of the contract means applicable to the recurring work and "entire" means applicable to both the base (recurring) and IDIQ (nonrecurring) work. If no annotation is made, it applies to the entire contract.

<b>Contract Line Item Number (CLIN)</b>	<b>SOW Section</b>	<b>Type</b>
0	Phase-In	Firm Fixed Price (FFP)
1	1, 2.2, 3, 4 (excluding 4.1.2) and 5	Cost Plus Incentive Fee (CPIF)
2	2.1	Cost Plus Fixed Fee (CPFF)
3	Section 4, Subsection 4.1.2	Cost Plus Incentive Fee (CPIF)
4.1	IDIQ work	Firm Fixed Price (FFP)
4.2	IDIQ work	CPFF

**B.2 FIRM FIXED PRICE (CLIN 0)**

The total firm fixed price for Phase-In of this contract is \$354,662.

**B.3 ESTIMATED COST AND INCENTIVE FEE (1852.216-84) (OCTOBER 1996)  
(applicable to CLINS 1 and 3)**

The target cost of this contract is \$ 259,514,745. The target fee of this contract is \$20,761,180 (8% of target cost). The total target cost and target fee as contemplated by the Incentive Fee clause of this contract is \$280,275,925.

The maximum fee is \$ 25,951,475 (10% of target cost).

The minimum fee is \$ 10,380,590 (4% of target cost).

The cost sharing for cost underruns is: Government 50% Contractor 50%.  
The cost sharing for cost overruns is: Government 70% Contractor 30%.

THE BREAKOUT OF TARGET COST/INCENTIVE FEE FOR THE BASE PERIOD AND ANY AWARD TERMS IS AS FOLLOWS:

**BASE PERIOD\***

\*The base period of this contract is 5 years unless award periods are lost in accordance with Section G-2.

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
1/Year 1 (9 mos.)	\$21,745,425	\$1,739,634	\$23,485,059	\$869,817	\$2,174,542
2/Year 2	\$26,568,528	\$2,125,482	\$28,694,010	\$1,062,741	\$2,656,853
3/Year 3	\$26,483,897	\$2,118,712	\$28,602,608	\$1,059,356	\$2,648,390
4/Year 4	\$26,500,075	\$2,120,006	\$28,620,081	\$1,060,003	\$2,650,007
5/Year 5A (6 months)	\$13,104,155	\$1,048,332	\$14,152,487	\$524,166	\$1,310,415
6/Year 5B (6 months)	\$13,104,155	\$1,048,332	\$14,152,487	\$524,166	\$1,310,415
<b>Total Base Period 5 yrs</b>	\$127,506,233	\$10,200,499	\$137,706,732	\$5,100,249	\$12,750,623

**FIRST AWARD TERM PERIOD**

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
7/Year 5.0 – 5.5 (6 add'l months)	\$13,186,686	\$1,054,935	\$14,241,621	\$527,467	\$1,318,669

**SECOND AWARD TERM PERIOD**

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
8/Year 5.5 – 6.0 (add'l 6 months)	\$13,192,926	\$1,055,434	\$14,248,360	\$527,717	\$1,319,293

**THIRD AWARD TERM PERIOD**

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
9/Year 6.0 – 6.5 (add'l 6 months)	\$13,182,420	\$1,054,594	\$14,237,014	\$527,297	\$1,318,242

**FOURTH AWARD TERM PERIOD**

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
10/Year 6.5 – 7.5 (add'l 1 year)	\$26,257,635	\$2,100,611	\$28,358,245	\$1,050,305	\$2,625,763

FIFTH AWARD TERM PERIOD

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
11/Year 7.5 – 8.5 (add'l 1 year)	\$26,307,278	\$2,104,582	\$28,411,860	\$1,052,291	\$2,630,728

SIXTH AWARD TERM PERIOD

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
12/Year 8.5 – 9.5 (add'l 1 year)	\$26,547,616	\$2,123,809	\$28,671,425	\$1,061,905	\$2,654,762

SEVENTH AWARD TERM PERIOD

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
13/Year 9.5 – 10 (add'l 6 months)	\$13,333,955	\$1,066,716	\$14,400,671	\$533,358	\$1,333,395

SUMMARY FOR BASE AND ALL AWARD TERM PERIODS

Period Covered	Target Cost	Target Fee	Total	Min Fee	Max Fee
TOTAL FOR PERIODS 1-6	\$127,506,232	\$10,200,499	\$137,706,731	\$5,100,249	\$12,750,623
TOTAL FOR PERIODS 7-13	\$132,008,513	\$10,560,681	\$142,569,194	\$5,280,341	\$13,200,852
TOTAL FOR ALL PERIODS	\$259,514,745	\$20,761,180	\$280,275,925	\$10,380,590	\$25,951,475

**B.4 ESTIMATED COST AND FIXED FEE (1852.216-74) (DECEMBER 1991)  
(applicable to CLIN 2)**

The estimated cost of this contract is \$141,711,395, exclusive of the fixed fee of \$557,934 (7% of estimated cost). The total estimated cost and fixed fee for CLIN 2 is \$151,631,193.



THE BREAKOUT OF ESTIMATED COST/FIXED FEE FOR THE BASE PERIOD AND ANY AWARD TERMS IS AS FOLLOWS:

BASE PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
1/Year 1 (9 mos.)	\$7,278,143	\$509,470	\$7,787,613
2/Year 2	\$11,202,048	\$784,143	\$11,986,191
3/Year 3	\$13,621,622	\$953,514	\$14,575,136
4/Year 4	\$15,247,175	\$1,067,302	\$16,314,477
5/Year 5A	\$7,890,810	\$552,357	\$8,443,167
6/Year 5B	\$7,890,810	\$552,357	\$8,443,167
Total Base Period (5 yrs)	\$63,130,609	\$4,419,143	\$67,549,752

FIRST AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
7/Year 5.0 – 5.5 (6 add'l months)	\$7,891,292	\$552,390	\$8,443,683

SECOND AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
8/Year 5.5 – 6.0 (add'l 6 months)	\$7,903,017	\$553,211	\$8,456,229

THIRD AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
9/Year 6.0 – 6.5 (add'l 6 months)	\$7,813,477	\$546,943	\$8,360,420

FOURTH AWARD TERM PERIOD

Period Covered	Estimated Cost	Target Fee	Total
10/Year 6.5 – 7.5 (add'l 1 year)	\$15,619,248	\$1,093,347	\$16,712,595

FIFTH AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
11/Year 7.5 – 8.5 (add'l 1 year)	\$15,628,064	\$1,093,965	\$16,722,029

SIXTH AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
12/Year 8.5 – 9.5 (add'l 1 year)	\$15,755,196	\$1,102,864	\$16,858,060

SEVENTH AWARD TERM PERIOD

Period Covered	Estimated Cost	Fixed Fee	Total
13/Year 9.5 – 10 (add'l 6 months)	\$7,970,490	\$557,934	\$8,528,424

SUMMARY FOR BASE AND ALL AWARD TERM PERIODS

Period Covered	Estimated Cost	Fixed Fee	Total
TOTAL FOR PERIODS 1-6	\$63,130,609	\$4,419,143	\$67,549,752
TOTAL FOR PERIODS 7-13	\$78,580,786	\$5,500,655	\$84,081,441
TOTAL FOR ALL PERIODS	\$141,711,395	\$9,919,798	\$151,631,193

**B.5 TOTAL CONTRACT VALUE**

(a) The total contract value for all CLINS, including IDIQ, for the base and all award term periods, if earned, is as follows:

Period (s)	CLIN 1	CLIN 3	CLINS 1 and 3 subtotal (Ref. B-3)	CLIN 2 (Ref. B-4)	CLIN 4 IDIQ (K)	TOTAL
1 – 4	106,837,773	2,563,984	109,401,758	50,663,418	188,300	348,365,175
5	13,820,776	331,711	14,152,487	8,443,167	26,300	48,895,654
6	13,820,776	331,711	14,152,487	8,443,167	26,600	49,195,654
7	13,901,215	340,405	14,241,621	8,443,683	27,200	49,885,303
8	13,907,954	340,405	14,248,360	8,456,229	27,500	50,204,588
9	13,896,299	340,715	14,237,014	8,360,420	28,300	50,897,434
10	27,679,292	678,953	28,358,245	16,712,595	57,800	102,870,841
11	27,740,137	671,723	28,411,860	16,722,029	59,400	104,533,889
12	27,998,542	672,883	28,671,425	16,858,060	61,100	106,629,485
13	14,061,334	339,337	14,400,671	8,528,425	31,200	54,129,096
10-yr total	273,664,098	6,611,827	280,275,925	151,631,193	533,700	965,607,118

(b) CLIN 4 -- The total IDIQ maximum value is \$241,200,000 for the 5-year period of performance. If additional performance terms are earned/lost, the maximum value for IDIQ work will be increased/decreased as indicated above. The IDIQ maximum contract value for the 10-year period of performance of \$533,700,000 as reflected above.

**B.6 CONTRACT FUNDING (NFS 18-52.232-81) (JUN 1990)  
(applicable to all SOW Sections)**

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is listed below. This allotment is for CLINs1-3 and covers the following estimated period of performance: contract effective date through TBD.

CLINS	Target Cost	Incentive Fee	Total CPIF	
1				
2	N/A	N/A	N/A	
3				
4-IDIQ	N/A	N/A	N/A	
Total Funding				
CLINS	Est. Cost	Fixed Fee	Total CPFF	*IDIQ FFP
1	N/A	N/A	N/A	N/A
2				N/A
3	N/A	N/A	N/A	N/A
4-IDIQ				
Total Funding				

(b) An additional amount of See Table Above is obligated under this contract for payment of fee.

\*from H-21, Limitation of Funds

**B.7 GOVERNMENT-SPECIFIED COSTS (applicable to CLINS 1-3)**

(a) The total estimated cost of this contract includes the estimated costs for various Other Direct Costs (ODCs) as listed in Exhibit H.

(b) These costs represent the Government's best estimate at time of contract award of what the actual costs will be. There will be no adjustment in the fee(s) of the contract should the actual costs be different than these estimates, unless there is a change to the contract under the Changes clause that impacts these estimates. These estimates include escalation.

(c) Target cost, as defined in the Section I clause Incentive Fee (FAR 52.216-10) includes the costs specified above. However, any underrun/overrun associated with these costs will be excluded from the computation in determining the incentive fee.

## **B.8 INDEFINITE DELIVERY/INDEFINITE QUANTITY WORK – UNIT PRICED DIRECT AND INDIRECT RATES (CLIN 4.1 and 4.2)**

(a) Work that is of a nonrecurring nature and cannot be sufficiently identified or quantified in advance is identified as IDIQ work. IDIQ Work Orders and Task Orders may be issued for any of the SOW areas.

(b) IDIQ work will be issued as Firm Fixed Price or Cost Plus Fixed Fee at the sole discretion of the Contracting Officer and shall utilize the rates in Exhibit B, unless otherwise approved by the Contracting Officer.

(c) All Work Orders and Task Orders shall be negotiated between the Contractor and the Contracting Officer. IDIQ work shall be issued utilizing the Work Request Tracking System (WoRTS) as described in SOW Section 5.1.1 in addition to facsimile or other electronic means as needed to facilitate work flow. When R.S. Means is utilized to determine labor hours in accordance with Clause H.19, a discount rate of 0% shall be applied to the Exhibit B Labor Rates. In addition, when R.S. Means is utilized to determine material costs, a discount rate of 0% shall be applied to all material costs where appropriate.

(d) IDIQ work shall be ordered in accordance with the Section I clauses entitled "Ordering," "Order Limitations," and "Indefinite Quantity."

(e) See Section H-19 for IDIQ Procedures.

## **SECTION C – STATEMENT OF WORK**

The Statement of Work is located in Section J, Exhibit A.

## **SECTION D - PACKAGING AND MARKING**

### **D.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE**

NO clauses are included in this section.

**SECTION E - INSPECTION AND ACCEPTANCE**

**E.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE**

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference:

**I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)**

CLAUSE NUMBER	DATE	TITLE
52.246-3	MAY 2001	INSPECTION OF SUPPLIES – COST REIMBURSEMENT (applicable to CLINS 1-3 and CLIN 4.2)
52.246-5	APR 1984	INSPECTION OF SERVICES—COST-REIMBURSEMENT (applicable to CLINS 1-3 AND CLIN 4.2)
52.246-2	AUG 1996	INSPECTION OF SUPPLIES – FIXED PRICE (applicable to CLIN 0 and 4.1)
52.246-4	AUG 1996	INSPECTION OF SERVICES—FIXED PRICE (applicable to CLIN 0 and 4.1)

**II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES**

No NASA FAR Supplement Clauses are included in this section by reference.

**SECTION F - DELIVERIES OR PERFORMANCE**

**F.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE**

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference and are applicable to the entire contract unless otherwise stated:

**I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)**

CLAUSE NUMBER	DATE	TITLE
52.247-34	NOV 1991	FOB DESTINATION (applicable to CLINS 1-3 and CLIN 4 as applicable)
52.247-34	APR 1984	FOB DESTINATION WITHIN CONSIGNEE'S PREMISES (as applicable to CLIN 4)
52.242-15	AUG 1989	STOP-WORK ORDER (ALTERNATE I) (APR 1984) (applicable to CLINS 1-3 and CLIN 4.2)

52.242-15 AUG 1989 STOP-WORK ORDER (APR 1984) (applicable to CLIN 4.1)

## II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

No NASA FAR Supplement Clauses are included in this section by reference.

### F.2 PERIOD OF PERFORMANCE (LaRC 52.211-91) (NOV 2002)

The period of performance of this contract shall be 60 months, from February 1, 2004 to January 31, 2009, unless modified under the award term provisions of this contract. (See G.2 and H-15).

### F.3 PLACE(S) OF PERFORMANCE (LaRC 52.211-98) (OCT 1992)

The place(s) of performance shall be: NASA Langley Research Center, Hampton, Virginia, the Contractor's facility located in Hampton, Va, and other sites as may be designated by the Contracting Officer.

### F.4 DELIVERY REQUIREMENTS (LaRC 52.211-96) (APR 2002)

(a) Deliveries are required to be made throughout the contract period of performance.

(b) Delivery shall be f.o.b. destination to the facilities listed below depending on the nature of the deliverable:

Center                      National Aeronautics and Space Administration Langley Research  
   15 Doolittle Rd. (Bldg. 1187), Hampton, VA 23681-2199

OR As specified in Work Orders or Task Orders.

(c) The Contractor shall make delivery to the F.O.B. destination site between the hours of 6:00 a.m. to 6:00 p.m., Monday through Friday, Government holidays excepted. At delivery, the Government will not provide personnel and equipment; e.g., forklift and/or crane service, if required by the Contractor.

## SECTION G - CONTRACT ADMINISTRATION DATA

### G.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference and are applicable to the entire contract:

#### I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
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None included by reference.

#### II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
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The following clauses are applicable to the entire contract:

1852.223-71	DEC 1988	FREQUENCY AUTHORIZATION
1852.227-70	NOV 1998	NEW TECHNOLOGY (applicable only to Large Business)
1852.242-71	DEC 1988	TRAVEL OUTSIDE OF THE UNITED STATES
1852.242-73	JUL 2000	NASA CONTRACTOR FINANCIAL MANAGEMENT REPORTING
1852.245-70	JUL 1997	CONTRACTOR REQUESTS FOR GOVERNMENT- OWNED EQUIPMENT

### G.2 AWARD TERM

(a) Period of Performance: The contract "BASE" period of performance of five (5) years may be increased/decreased in six-month or one-year "award term" increments, up to an additional five (5) years, based on overall contract performance. These "award term" periods will be increased/decreased by the Government based on cost control and overall contractor performance as evaluated in accordance with the contract's approved Award Term and Performance Evaluation Plan (ATPEP).

(b) Award Term and Performance Evaluation Plan: The ATPEP will be approved by the Government and provided to the Contractor during the phase-in period. The ATPEP will serve as the basis for any award term decisions. The ATPEP may be revised by the Government and re-issued to the Contractor prior to the commencement of any 6-month evaluation period or during any evaluation period as agreed upon between the Contractor and the Contracting Officer. The Government may designate areas of special performance evaluation emphasis during any evaluation period.

Failure to meet contract requirements or metrics in any area designated for "special performance evaluation emphasis" may be considered as a "reportable deficiency" in developing award term adjective ratings (see ATPEP rating scale.) An Award Term Determination Official (ATDO) shall be appointed by the Government and is responsible for the overall award term evaluation and award term decisions.

(c) Award Term Administration: The award term evaluation will be completed on an annual basis. The annual evaluation will be comprised of two successive 6-month "interim" evaluations and be combined to obtain the "final" annual adjective rating. The first year (Period 1) of the contract will be evaluated on a "shadow" basis where the results will not be used in making an award term decision. Award term decisions that affect the period of performance will commence in the second contract year (Period 2) and will conclude at the end of contract year eight (Period 11), if all terms have been awarded.

(d) Award Term Decisions: For the evaluation periods at the conclusion of contract year two, the Contractor must meet or underrun the contract target cost for CLINs 1 and 3 and the final annual adjective rating must be a "very good" or above to be awarded additional contract term. For the evaluation periods at the end of years 3-8, the Contractor must meet or underrun the contract target cost for CLINs 1 and 3 and the final annual adjective rating must be an "excellent" to be awarded additional contract term. In addition, for the evaluation periods at the end of years 2-4, the Contractor may also lose term if the final annual adjective rating is "poor/unsatisfactory" which will reduce the base period of performance.

(e) Automatic Re-competition Decision: If at the end of any annual award term period an additional term is not earned, the contract period of performance will be fixed and will end at the then current completion date. The contractor cannot be awarded an additional term in any final year of the contract period. If the annual award term evaluations result in an increase or decrease to the period of performance, a unilateral modification will be executed by the Government to reflect the increase or decrease in total contract value. Any increase or decrease to the contract value will be in accordance with the priced periods stated in Section B-3 and B-4 in addition to the IDIQ maximum values for CLIN 4 stated in Section B-5. In no event will the contract be extended beyond the 10-year period of performance via the award term process.

### **G.3 SUBMISSION OF VOUCHERS FOR PAYMENT (NFS 1852.216-87) (MAR 1998) (applicable to CLINS 1-3 and CLIN 4.2)**

(a) The designated billing office for cost vouchers for purposes of the Prompt Payment clause of this contract is indicated below in (b)(1). Public vouchers for payment of costs shall include a reference to the number of this contract.

(b)(1) If the contractor is authorized to submit interim cost vouchers directly to the NASA paying office, the original voucher should be submitted to: NASA LaRC, MS 175, Accounts Payable, Hampton, VA 23681 (copies as indicated in (c)(2) below).



(2) For any period that the Defense Contract Audit Agency has authorized the Contractor to submit interim cost vouchers directly to the Government paying office, interim vouchers are not required to be sent to the Auditor, and are considered to be provisionally approved for payment, subject to final audit.

(3) Copies of vouchers should be submitted as directed by the Contracting Officer.

(c) If the contractor is not authorized to submit interim cost vouchers directly to the paying office as described in paragraph (b), the contractor shall prepare and submit vouchers as follows:

(1) One original Standard Form (SF) 1034, SF 1035, or equivalent Contractor's attachment to:  
5200 West Mercury Boulevard  
Suite 291  
Hampton, VA 23605

(2) Five copies of SF 1034, SF 1035A, or equivalent Contractor's attachment to the following offices by insertion in the memorandum block of their names and addresses:

- (i) Copy 1 NASA Contracting Officer
- (ii) Copy 2 Auditor (n/a if authorized for direct submission)
- (iii) Copy 3 Contractor
- (iv) Copy 4 Contract administration office; and
- (v) Copy 5 Project management office.

(3) The Contracting Officer may designate other recipients as required.

(d) Public vouchers for payment of fee shall be prepared similarly to the procedures in paragraphs (b) or (c) of this clause, whichever is applicable, and forwarded to: NASA LaRC, MS 175/ Accounts Payable, Hampton VA 23681. Vouchers for cost-type IDIQ shall have the Work Order No. or Task Order No. indicated on all vouchers. Cost and Fee vouchers for IDIQ work shall also be submitted separately.

This is the designated billing office for fee vouchers for purposes of the Prompt Payment clause of this contract.

(e) In the event that amounts are withheld from payment in accordance with provisions of this contract, a separate voucher for the amount withheld will be required before payment for that amount may be made.

**G.4 PAYMENT OF INCENTIVE FEE (applicable to CLINS 1 and 3)**

Incentive fee payments will be made by the Government every six months based upon cost incurred by the contractor and upon receipt of a proper invoice from the Contractor. The contractor shall calculate the incentive fee due in accordance with the Section I clause, Incentive Fee, and submit the fee invoice in accordance with G.3(d) above within 30 days of the end of the evaluation period. The Contracting Officer may adjust the amount of fee paid in accordance with the Incentive Fee clause.

**G.5 PAYMENT OF FIXED FEE (1852.216-75) (DEC 1988) (applicable to CLIN 2 and CLIN 4.2)**

The fixed fee shall be paid in monthly installments based upon the percentage of completion of work as determined by the Contracting Officer. Payment of fee for IDIQ orders shall be at completion and acceptance of work unless otherwise stated in the Order.

**G.6 PAYMENT OF PHASE IN AND FIXED PRICE IDIQ WORK (applicable to CLIN 4.1)**

In accordance with the Section I clause, 52.232-1, Payments, payments for Phase In and IDIQ Fixed Price orders will be made by the Government based on receipt of a proper invoice and completion and acceptance of services rendered. Upon request from the contractor, the Contracting Officer may approve interim partial payments based on milestones for Orders with a total value of \$100,000 or more and a duration of 6 months or longer.

**G.7 GOVERNMENT PURCHASE CARD (GPC) PAYMENT (applicable to CLIN 4.1 Not To Exceed micro-purchase threshold)**

(a) The Contractor shall accept orders placed by authorized Government Purchase Card users. The Government Purchase Card is a purchasing instrument issued through a commercial bank to a Government Agency to facilitate micro purchases.

(b) The Contractor shall accept and perform only those services within the scope of the ROME contract. In addition, the Contractor shall obtain all Government approvals (e.g., safety, environmental, or standard practice engineers) required. Use of Purchase Card by Government personnel does not alter the terms and conditions of this contract or the SOW requirements.

(c) The Contractor shall utilize Exhibit B for Unit Priced Direct Labor and Indirect Rates when Government personnel are ordering work directly via the Government Purchase Card. Any request for work that cannot be priced from these schedules requires advance approval of the Contracting Officer. The Contractor is responsible for tracking and reporting purchase card orders. See Exhibit C, Contract Documentation Requirements, for reporting requirements.

(d) The Government Purchase Card shall be billed by the Contractor when the work is completed and accepted by the customer.

**G.8 DESIGNATION OF NEW TECHNOLOGY REPRESENTATIVE AND PATENT REPRESENTATIVE (1852.227-72) (JULY 1997)**

(a) For purposes of administration of the clause of this contract entitled "New Technology" or "Patent Rights--Retention by the Contractor (Short Form)," whichever is included, the following named representatives are hereby designated by the Contracting Officer to administer such clause:

Title	Office Code	Address (including zip code)
New Technology Representative	212	NASA LaRC Hampton VA 23681-2199
Patent Representative	212	NASA LaRC Hampton VA 23681-2199

(b) Reports of reportable items, and disclosure of subject inventions, interim reports, final reports, utilization reports, and other reports required by the clause, as well as any correspondence with respect to such matters, should be directed to the New Technology Representative unless transmitted in response to correspondence or request from the Patent Representative. Inquires or requests regarding disposition of rights, election of rights, or related matters should be directed to the Patent Representative. This clause shall be included in any subcontract hereunder requiring a "New Technology" clause or "Patent Rights--Retention by the Contractor (Short Form)" clause, unless otherwise authorized or directed by the Contracting Officer. The respective responsibilities and authorities of the above-named representatives are set forth in 1827.305-370 of the NASA FAR Supplement.

**G.9 TECHNICAL DIRECTION (NFS 1852.242-70) (SEP 1993)**

(a) Performance of the work under this contract is subject to the written technical direction of the Contracting Officer Technical Representative (COTR), who shall be specifically appointed by the Contracting Officer in writing in accordance with NASA FAR Supplement 1842.270. "Technical direction" means a directive to the Contractor that approves approaches, solutions, designs, or refinements; fills in details or otherwise completes the general description of work or documentation items; shifts emphasis among work areas or tasks; or furnishes similar instruction to the Contractor. Technical direction includes requiring studies and pursuit of certain lines of inquiry regarding matters within the general tasks and requirements in Section C of this contract.

(b) The COTR does not have the authority to, and shall not, issue any instruction purporting to be technical direction that--

- (1) Constitutes an assignment of additional work outside the statement of work;

- (2) Constitutes a change as defined in the changes clause;
- (3) Constitutes a basis for any increase or decrease in the total estimated contract cost, the fixed fee (if any), or the time required for contract performance;
- (4) Changes any of the expressed terms, conditions, or specifications of the contract; or
- (5) Interferes with the Contractor's rights to perform the terms and conditions of the contract.

(c) All technical direction shall be issued in writing by the COTR.

(d) The Contractor shall proceed promptly with the performance of technical direction duly issued by the COTR in the manner prescribed by this clause and within the COTR's authority.

If, in the Contractor's opinion, any instruction or direction by the COTR falls within any of the categories defined in paragraph (b) above, the Contractor shall not proceed but shall notify the Contracting Officer in writing within 5 working days after receiving it and shall request the Contracting Officer to take action as described in this clause. Upon receiving this notification, the Contracting Officer shall either issue an appropriate contract modification within a reasonable time or advise the Contractor in writing within 30 days that the instruction or direction is--

- (1) Rescinded in its entirety; or
- (2) Within the requirements of the contract and does not constitute a change under the changes clause of the contract, and that the Contractor should proceed promptly with its performance.

(e) A failure of the Contractor and Contracting Officer to agree that the instruction or direction is both within the requirements of the contract and does not constitute a change under the changes clause, or a failure to agree upon the contract action to be taken with respect to the instruction or direction, shall be subject to the Disputes clause of this contract.

(f) Any action(s) taken by the Contractor in response to any direction given by any person other than the Contracting Officer or the COTR shall be at the Contractor's risk.

#### **G.10 CONTRACTOR REQUESTS FOR GOVERNMENT-OWNED EQUIPMENT (1852.245-70) (JULY 1997)**

(a) "Equipment," as used in this clause, means commercially available items capable of stand-alone use, including those to be acquired for incorporation into special test equipment or special tooling.

(b)(1). Upon determination of need for any Government-owned equipment item for performance of this contract, the contractor shall provide to the contracting officer a written request justifying the need for the equipment and the reasons why contractor-owned property cannot be used, citing the applicable FAR or contract authority for use of Government-owned equipment. Equipment being acquired as a deliverable end item

listed in the contract or as a component for incorporation into a deliverable end item listed in the contract is exempt from this requirement.

(2) The contractor's request shall include a description of the item in sufficient detail to enable the Government to screen its inventories for available equipment or to purchase equipment. For this purpose, the contractor shall (i) prepare a separate DD Form 1419, DOD Industrial Plant Equipment Requisition, or equivalent format, for each item requested and (ii) forward it through the contracting officer to the Industrial Property Officer at the cognizant NASA installation at least 30 days in advance of the date the contractor intends to acquire the item. Multiple units of identical items may be requested on a single form. Instructions for preparing the DD Form 1419 are contained in NASA FAR Supplement 1845.7102. If a certificate of nonavailability is not received within that period, the contractor may proceed to acquire the item, subject to having obtained contracting officer consent, if required, and having complied with any other applicable provisions of this contract.

(c) Contractors who are authorized to conduct their own screening using the NASA Equipment Management System (NEMS) and other Government sources of excess property shall provide the evidence of screening results with their request for contracting officer consent. Requests to purchase based on unsuitability of items found shall include rationale for the determined unsuitability.

#### **G.11 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NFS 1852.245-71)**

(a) The Government property described in the clause at 1852.245-77, List of Installation-Accountable Property and Services, shall be made available to the Contractor on a no-charge basis for use in performance of this contract. This property shall be utilized only within the physical confines of the NASA installation that provided the property. Under this clause, the Government retains accountability for, and title to, the property, and the Contractor assumes the following user responsibilities:

User responsibilities in accordance with NASA Handbook NPG 4200.1, NASA Equipment Management Manual.

The contractor shall establish and adhere to a system of written procedures for compliance with these user responsibilities. Such procedures must include holding employees liable, when appropriate, for loss, damage, or destruction of Government property.

(b) (1) The official accountable record keeping, physical inventory, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished by the installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:

(i) The contractor shall establish a record of the property as required by FAR 45.5 and 1845.5 and furnish to the Industrial Property Officer a DD Form 1149 Requisition and Invoice/Shipping Document (or installation equivalent) to transfer accountability to the Government within 5 working days after receipt of the property by the contractor. The contractor is accountable for all contractor-acquired property until the property is transferred to the Government's accountability.

(ii) Contractor use of Government property at an off-site location and off-site subcontractor use require advance approval of the contracting officer and notification of the SEMO. The contractor shall assume accountability and financial reporting responsibility for such property. The contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR Part 45.5 until its return to the installation.

(2) After transfer of accountability to the Government, the contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the contracting officer.

(3) The contractor shall not utilize the installation's central receiving facility for receipt of Contractor-acquired property. However, the Contractor shall provide listings suitable for establishing accountable records of all such property received, on a quarterly basis, to the Contracting Officer and the Supply and Equipment Management Officer.

#### **G.12 FINANCIAL REPORTING OF NASA PROPERTY IN THE CUSTODY OF CONTRACTORS (NFS 1852.245-73) (AUG 2001)**

(a) The Contractor shall submit annually a NASA Form (NF) 1018, NASA Property in the Custody of Contractors, in accordance with the provisions of 1845.505-14, the instructions on the form, subpart 1845.71, and any supplemental instructions for the current reporting period issued by NASA.

(b)(1) Subcontractor use of NF 1018 is not required by this clause; however, the Contractor shall include data on property in the possession of subcontractors in the annual NF 1018.

(2) The Contractor shall mail the original signed NF 1018 directly to the cognizant NASA Center Deputy Chief Financial Officer, Finance, unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(3) One copy shall be submitted (through the Department of Defense (DOD) Property Administrator if contract administration been delegated to DOD) to the following address: NASA LaRC, MS 377, Industrial Property Officer, Hampton, VA 23681, unless the Contractor uses the NF 1018 Electronic Submission System (NESS) for report preparation and submission.

(c) The annual reporting period shall be from October 1 of each year through September 30 of the following year. The report shall be submitted in time to be received by October 31. The information contained in these reports is entered into the NASA accounting system to reflect current asset values for agency financial statement purposes. Therefore, it is essential that required reports be received no later than October 31. The Contracting Officer may, in NASA's interest, withhold payment until a reserve not exceeding \$25,000 or 5 percent of the amount of the contract, whichever is less, has been set aside, if the Contractor fails to submit annual NF 1018 reports in accordance with 1845.505-14 and any supplemental instructions for the current reporting period issued by NASA. Such reserve shall be withheld until the Contracting Officer has determined that the required reports have been received by NASA. The withholding of any amount or the subsequent payment thereof shall not be construed as a waiver of any Government right.

(d) A final report shall be submitted within 30 days after disposition of all property subject to reporting when the contract performance period is complete in accordance with (b)(1) through (3) of this clause.

**G.13 LIST OF GOVERNMENT-FURNISHED PROPERTY (NASA 1852.245-76) (OCT 1988)**

For performance of work under this contract, the Government will make available Government property identified in Exhibit D of this contract on a no-charge-for-use basis. The Contractor shall use this property in the performance of this contract at the contractor's facility, NASA LaRC, and at other location(s) as may be approved by the Contracting Officer. Under the FAR 52.245 Government Property clause of this contract, the Contractor is accountable for the identified property.

**G.14 LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (NFS 1852.245-77) (JUL 1997)**

In accordance with the clause at G-11, Installation-Accountable Government Property, the Contractor is authorized use of the types of property and services listed below, to the extent they are available, in the performance of this contract within the physical borders of the installation which may include buildings and space owned or directly leased by NASA in close proximity to the installation, if so designated by the Contracting Officer.

(a) Office space and/or work area space for approximately 400 on-site personnel. Telephones are available for official purposes only.

(b) General- and special-purpose equipment, including office furniture for on-site personnel.

(1) Equipment to be made available is listed in Exhibit E. The Government retains accountability for this property in accordance with G-11, Installation-Accountable Government Property, regardless of its authorized location.

(2) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records as required by the clause at G-11, Installation-Accountable Government Property.

(3) The Contractor shall not bring to the installation for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval.

(c) Safety and fire protection for Contractor personnel and facilities.

(d) Installation service facilities: LaRCNET connections/network attached devices (NAD), mail service, child care center, library.

(e) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty. In all instances of severe injury, or sudden life threatening illness (e.g. heart attack), the Emergency Medical Technician Squad shall be summoned immediately, by dialing 911. Referrals to tertiary care centers and for private physicians will be made in cases requiring long-term follow-up, or when specific services required are unavailable on-site.

(f) Cafeteria privileges for Contractor employees during normal operating hours.

(g) Building maintenance for facilities occupied by Contractor personnel.

(h) Moving of office equipment on-site as approved by the Contracting Officer.

(i) Gasoline and diesel fuel for maintenance vehicles that are used and reside on-site.

(j) The user responsibilities of the Contractor are defined in paragraph (a) of the clause at G-11, Installation-Accountable Government Property.

#### **G.15 PROVIDING FACILITIES TO CONTRACTORS (LaRC 52.245-90) (DEC 1999)**

(a) In accordance with FAR 45.302-1, it is policy of the Government that Contractors shall furnish all facilities required for performing Government contracts. "Facilities" include real property and plant equipment including personal property such as general purpose off-the-shelf equipment, machine tools, test equipment, furniture



and vehicles. "Facilities" do not include material, special test equipment, special tooling or agency-peculiar property.

(b) In keeping with the policy set forth in FAR 45.302-1, the Government will not provide NEW "facilities," except as provided for in the Statement of Work.

(c) However, the Government will provide EXISTING facilities as listed in G.14 and Exhibits D and E. Any of the existing facilities that are coded "Y" in Exhibits D and E that reach the end of their useful life during the contract period, or which are beyond economical repair, shall be replaced by the Contractor if the facilities are still needed for contract performance. Contractor acquisitions of facility items for the Government is prohibited, unless specifically authorized by the contract or consent has been obtained in writing from the Contracting Officer pursuant to FAR 45.302-1(a).

(d) Notwithstanding 52.216-7, the "Allowable Cost and Payment" clause of this contract, cost of facilities are not an allowable cost except when charged to this contract in accordance with the Contractor's approved accounting system.

**SECTION H - SPECIAL CONTRACT REQUIREMENTS**

**H.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE**

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference and apply to the entire contract:

**I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)**

CLAUSE NUMBER	DATE	TITLE
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No FAR Clauses are included in this section by reference.

**II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES**

CLAUSE NUMBER	DATE	TITLE
1852.204-74	MAY 2002	CENTRAL CONTRACTOR REGISTRATION
1852.223-70	APR 2002	SAFETY AND HEALTH
1852.223-75	FEB 2002	MAJOR BREACH OF SAFETY OR SECURITY
1852.225-70	FEB 2000	EXPORT LICENSES
1852.242-72	AUG 1992	Insert in Paragraph (b): NASA Langley Research Center OBSERVANCE OF LEGAL HOLIDAYS ALTERNATE I (SEP 1989) ALTERNATE II (OCT 2000)

## **H.2 RESTRICTIONS ON PRINTING AND DUPLICATING (NASA 1852.208-81) (OCTOBER 2001)**

(a) The Contractor may duplicate or copy any documentation required by this contract in accordance with the provisions of the Government Printing and Binding Regulations, No. 26, S. Pub 101-9, U.S. Government Printing Office, Washington, DC, 20402, published by the Joint Committee on Printing, U.S. Congress.

(b) The Contractor shall not perform, or procure from any commercial source, any printing in connection with the performance of work under this contract. The term "printing" includes the processes of composition, plate making, presswork, duplicating, silk-screen processes, binding, microform, and the end items of such processes and equipment.

(c) The Contractor is authorized to duplicate or copy production units provided the requirement does not exceed 5,000 production units of any one page or 25,000 units in the aggregate of multiple pages. Such pages may not exceed a maximum image size of 10-3/4 by 14-1/4 inches. A "production unit" is one sheet, size 8-1/2 x 11 inches (215 x 280 mm), one side only, and one color ink.

(d) This clause does not preclude writing, editing, preparation of manuscript copy, or preparation of related illustrative material as a part of this contract, or administrative duplicating/copying (for example, necessary forms and instructional materials used by the Contractor to respond to the terms of the contract).

(e) Costs associated with printing, duplicating, or copying in excess of the limits in paragraph (c) of this clause are unallowable without prior written approval of the Contracting Officer. If the Contractor has reason to believe that any activity required in fulfillment of the contract will necessitate any printing or substantial duplicating or copying, it immediately shall provide written notice to the Contracting Officer and request approval prior to proceeding with the activity. Requests will be processed by the Contracting Officer in accordance with the provisions of the Government Printing and Binding Regulations, NFS 1808.802, and NPG 1490.5, NASA Procedures and Guidelines for Printing, Duplicating, and Copying Management.

(f) The Contractor shall include in each subcontract which may involve a requirement for any printing, duplicating, and copying in excess of the limits specified in paragraph (c) of this clause, a provision substantially the same as this clause, including this paragraph (f).

## **H.3 SECURITY PROGRAM/NON-U.S. CITIZEN EMPLOYEE ACCESS REQUIREMENTS (LaRC 52.204-91) (JUL 2002)**

(a) Access to the LaRC by contractor non-U.S. citizen employees, including employees in permanent resident alien status, shall be approved in accordance with NPG 1371.2 and LMS-CP-4850. Administrative processing requires advance notice of between 20 to 45 days depending on the nationality of the non-U.S. citizen. Access authorization shall be for a maximum of one year, and must be reevaluated annually.

Non-U.S. citizen employees must be under escort at all times while on Center by a U.S. citizen issued a LaRC identification badge.

(b) Request for Center access in excess of 90 days requires that a background investigation be conducted on the non-U.S. citizen employee. The processing of a background investigation requires the submittal of a NASA Form 531, "Name Check Request," and a fingerprint card application. Normal processing time for a background investigation is approximately 90 days. A favorably adjudicated background investigation shall allow non-U.S. citizen contractor employee limited unescorted access to the Center. Access shall be limited to work areas identified and deemed necessary and entry and egress to that site.

#### **H.4 UNESCORTED ACCESS BY U.S CITIZEN CONTRACTOR EMPLOYEES (LaRC 52.204-102) (NOV 2002)**

(a) Visits by U.S. citizen contractor employees that are expected will exceed 90 days will require the employee to undergo a Background Investigation. All Contractor employees must, as a minimum, have a favorably adjudicated NASA Agency Check (NAC). However, a NAC is not required if the Contractor can certify that an employee has an active United States Government Security Clearance, (IAW requirements of Executive Order #12968), or has been the subject of a prior favorable NAC investigation within the last 3 years.

(b) For contractor employees requiring a NAC, the Contractor shall require its employees to submit a "Name Check Request" (NASA Form 531), an "Authorization for Release of Credit Reports" (NASA Form 1684), and a completed FD-258, "Applicant Fingerprint Card" to the LaRC Badge and Pass Office, Mail Stop 232. Fingerprint cards will be completed at the Badge and Pass Office only. Normal processing time for a NASA NAC is approximately 60 days.

#### **H.5 LIMITATION OF FUTURE CONTRACTING (NASA 1852.209-71) (DEC 1988)**

(a) The Contracting Officer has determined that this acquisition may give rise to a potential organizational conflict of interest. Accordingly, the attention of prospective offerors is invited to FAR Subpart 9.5--Organizational Conflicts of Interest.

(b) The nature of the conflicts are:

(1) The contractor may provide systems engineering and technical direction for systems for which the contractor does not have overall responsibility for as described in 9.505-1(a). As such, the contractor may be in a position to favor its own products and capabilities.

(2) The contractor shall be required to develop, prepare, or assist in developing specifications, designs, statements of works that NASA may incorporate into competitive acquisitions (e.g. fabrication, construction, or installation work). Such effort may be determined to be a conflict of interest in accordance with FAR 9.505-2. As such, the contractor may be in a position to favor its own capabilities and products, thus creating a potential conflict of interest.

(3) The contractor may also have access to proprietary information and to various other types of data as described in H.6, H-14, and H-16. As such, the contractor would be in a position to obtain non-public information, thus, creating a potential conflict of interest.

(4) There will be an Inspection and Quality Assurance (IQA) contractor who will be responsible for inspecting the work of the ROME contractor and all of its subcontractors. As such, the ROME contractor would be in a position to self-evaluate its own work should it compete for the IQA contract or serve as a subcontractor on the IQA contract creating a potential conflict of interest.

(c) The restrictions upon future contracting are as follows:

(1) The Contractor shall not be awarded any contracts to supply systems or any of its major components or be a subcontractor or consultant to a supplier of the system or any of its major components.

(2) If the Contractor, under the terms of this contract, or through the performance of IDIQ orders pursuant to this contract, is required to develop specifications or statements of work to be used in a competitive acquisition, the Contractor shall be ineligible to perform the work described in that solicitation as the contractor or first-tier subcontractor under an ensuing NASA contract. This restriction shall remain in effect for a reasonable time, as agreed to by the Contracting Officer and the Contractor, sufficient to avoid unfair competitive advantage or potential bias.

(3) To the extent that the work under this contract requires access to proprietary, business confidential, or financial data of other companies, and as long as these data remain proprietary or confidential, the Contractor shall protect these data from unauthorized use and disclosure and agrees not to use them to compete with other companies. Further, restrictions and procedures governing the contractors use of proprietary or confidential business information are found in H.15, Handling of Data.

(4) The contractor, as well as its subcontractors at all tiers, is prohibited from participating under the NASA Langley IQA contract, or any successor contract, as the prime contractor or as a subcontractor at any tier. An identical clause will be placed in the IQA contract and in any successor contract.

## **H.6 (LIMITED) RELEASE OF CONTRACTOR CONFIDENTIAL BUSINESS INFORMATION (CBI) (LaRC 52.204-104) (JAN 2002)**

(a) NASA may find it necessary to release information submitted by the Contractor, either in response to this solicitation or pursuant to the provisions of this contract, to individuals not employed by NASA. Business information that would ordinarily be entitled to confidential treatment may be included in the information released to these individuals. Accordingly, by signature on this contract or other contracts, the Contractor hereby consents to a limited release of its Confidential Business Information (CBI).

(b) Possible circumstances where the Agency may release the Contractor's CBI include, but are not limited to, the following:

(1) To other Agency contractors and subcontractors, and their employees tasked with assisting the Agency in handling and processing information and documents in the evaluation, the award or the administration of Agency contracts, such as providing both preaward and post award audit support and specialized technical support to NASA's technical evaluation panels;

(2) To NASA contractors and subcontractors, and their employees engaged in information systems analysis, development, operation, and maintenance, including performing data processing and management functions for the Agency.

(c) NASA recognizes its obligation to protect the contractor from competitive harm that could result from the release of such information to a competitor. Except where otherwise provided by law, NASA will permit the limited release of CBI under subparagraphs (1) or (2) only pursuant to non-disclosure agreements signed by the assisting contractor or subcontractor, and their individual employees who may require access to the CBI to perform the assisting contract.

(d) NASA's responsibilities under the Freedom of Information Act are not affected by this clause.

(e) The Contractor agrees to include this clause, including this paragraph (e), in all subcontracts at all levels awarded pursuant to this contract that require the furnishing of CBI by the subcontractor.

## **H.7 OBSERVATION OF REGULATIONS AND IDENTIFICATION OF CONTRACTOR'S EMPLOYEES (LaRC 52.211-104) (APR 2002)**

(a) Observation of Regulations--In performance of that part of the contract work which may be performed at Langley Research Center or other Government installation, the Contractor shall require its employees to observe the rules and regulations as prescribed by the authorities at Langley Research Center or other installation including all applicable Federal, NASA and Langley safety, health, environmental and security regulations.

(b) Identification Badges--At all times while on LaRC property, the Contractor shall require its employees, subcontractors and agents to wear badges which will be issued by the NASA LaRC Badge and Pass Office, located at 1 Langley Boulevard (Building No. 1228). Badges shall be issued only between the hours of 6:30 a.m. and 3:30 p.m., Monday through Friday. Contractors will be held accountable for these badges, and may be required to validate outstanding badges on an annual basis with the NASA LaRC Security Office. Immediately upon employee termination or contract completion, badges shall be returned to the NASA LaRC Badge and Pass Office. It is agreed and understood that all NASA identification badges remain the property of NASA and the Government reserves the right to invalidate such badges at any time.

(c) Employee Outprocessing--The Contractor shall ensure that all employees who are terminated or no longer connected with work being performed under this contract are out processed through the LaRC Badge and Pass Office. Badges and keys must be accounted for and returned.

#### **H.8 INCORPORATION OF SECTION K OF THE PROPOSAL BY REFERENCE (LaRC 52.215-107) (NOV 2002)**

Pursuant to FAR 15.204-1(b), the completed Section K of the proposal is hereby incorporated by reference.

#### **H.9 SMALL DISADVANTAGED BUSINESS PARTICIPATION--CONTRACT TARGETS (LaRC 52.219-91) (OCT 2002) (for offeror fill-in)**

(a) This clause does not apply to, and should not be completed by, Small Disadvantaged Business (SDB) offerors unless the SDB offeror has waived the price adjustment evaluation adjustment [see Paragraph (c) of FAR clause 52.219-23].

(b) FAR 19.1202-4(a) requires that SDB participation targets be incorporated in the contract. Targets for this contract are as follows: (See Internet at <http://www.census.gov/epcd/www/naics.html> for Department of Commerce NAICS Industry Subsectors.)

	Department of Commerce NAICS Industry Subsectors	Dollar Target	Percent of Contract Value
Base Periods			
1	TBD	3,961,134	5%
	541710	7,922,267	10%
2	TBD	4,431,510	5%
	541710	8,863,020	10%
3	TBD	4,556,387	5%
	541710	9,112,774	10%
4	TBD	4,644,228	5%
	541710	9,288,456	10%
5	TBD	2,469,783	5%
	541710	4,939,565	10%
6	TBD	2,484,783	5%
	541710	4,969,565	10%
	TOTAL	67,643,473	15%
Award Term Periods			
7	TBD	2,519,265	5%
	541710	5,038,530	10%
	TOTAL	7,557,796	15%
8	TBD	2,535,229	5%
	541710	5,070,459	10%
	TOTAL	7,605,688	15%
9	TBD	2,569,872	5%
	541710	5,139,743	10%
	TOTAL	7,709,615	15%
10	TBD	5,193,542	5%
	541710	10,387,084	10%
	TOTAL	15,580,626	15%
11	TBD	5,281,694	5%
	541710	10,563,389	10%
	TOTAL	15,845,083	15%
12	TBD	5,386,474	5%
	541710	10,772,949	10%
	TOTAL	16,159,423	15%
13	TBD	2,731,455	5%
	541710	5,462,910	10%
	TOTAL	8,194,364	15%

(c) FAR 19.1202-4(b) requires that SDB concerns that are specifically identified by the offeror be listed in the contract when the extent of the identification of such subcontractors was part of the SDB evaluation subfactor. SDB concerns (subcontractors) specifically identified by the offeror are as follows:

Name of Concern(s):

Sierra Lobo, Inc.  
 Analytical Services and Materials, Inc.  
 TESSADA & Associates, Inc.

The Contractor shall notify the Contracting Officer of any substitutions of firms that are not SDB concerns.

(d) If the prime offeror is an SDB (including joint venture partners and team members) that has waived the price evaluation adjustment, the target for the work it intends to perform as a prime contractor in authorized Department of Commerce NAICS Industry Subsectors is as follows:

	Dollars	Percent of Contract Value
Base Periods		
1	___ N/A ___	___ N/A ___
2	___ N/A ___	___ N/A ___
3	___ N/A ___	___ N/A ___
4	___ N/A ___	___ N/A ___
5	___ N/A ___	___ N/A ___
6	___ N/A ___	___ N/A ___
Award Term Periods		
7	___ N/A ___	___ N/A ___
8	___ N/A ___	___ N/A ___
9	___ N/A ___	___ N/A ___
10	___ N/A ___	___ N/A ___
11	___ N/A ___	___ N/A ___
12	___ N/A ___	___ N/A ___
13	___ N/A ___	___ N/A ___

**H-10 RESERVED**

**H.11 QUALITY MANAGEMENT SYSTEM CERTIFICATION/REGISTRATION REQUIREMENTS (ISO 9001) (LaRC 52.246-98) (NOV 2002) (for offerors not currently certified/registered)**

The Contractor's quality system shall be certified/registered to the current ANSI/ISO/ASQC Q ISO 9001 standard, Quality Management Systems Requirements.

Since the Contractor's quality system is not already certified/registered to the current ANSI/ISO/ASQC Q ISO 9001 standard, the Contractor shall develop quality system



procedures and associated documentation and obtain ISO 9001 Certification/Registration within nine months after the contract effective date.

Once certification/registration to the current ANSI/ISO/ASQC Q ISO 9001 has been achieved, a copy of the ISO 9001 Certification/Registration certificate shall be submitted for review and acceptance.

"Certified/Registered" as used in this clause means that the contractor has defined, documented, and will continually implement during the term of the contract management-approved methods of operation that have been audited by a 3rd party ISO 9001 Registrar and found meet the requirements given in the above-cited International Standard.

**OR**

#### **H.11 ISO 9001 CERTIFICATION/REGISTRATION REQUIREMENTS REGARDING THE OFFEROR'S QUALITY MANAGEMENT SYSTEM (LaRC 52.246-99) (NOV 2002) (for offerors who are certified/registered)**

The Contractor's quality system shall be Certified/Registered to the current ANSI/ISO/ASQC Q ISO 9001 standard, Quality Management Systems Requirements.

The Contractor's quality system shall remain Certified/Registered to the ISO 9001 standard during the term of the contract. The Government reserves the right to audit the Contractor's quality system at any time.

"Certified/Registered" as used in this clause means that the contractor has defined, documented, and will continually implement during the term of the contract management-approved methods of operation that have been audited by a 3rd party ISO 9001 Registrar and found meet to the requirements given in the above-cited International Standard.

#### **H.12 CONSTRUCTION SUBCONTRACTS**

The construction-related clauses listed in Section I.V shall apply, as applicable, to the performance of any construction subcontracts issued by the ROME contractor. Work performed by contractor employees is considered repair services and not subject to construction requirements. For Government-selected IDIQ services, the Contractor agrees to obtain performance and payment bonds or alternative payment protection. For the purposes of the clauses Performance and Payment Bonds – Construction, Alternative Payment Protections, and Additional Bond Security, the "contract price" shall be deemed to refer to the price of the work order or task order. In response to selected construction work, the contractor may include in pricing proposals, the price of performance and payment bonds or alternative payment protection as a separate expense.

#### **H.13 ASSIGNMENT OF COPYRIGHT IN COMPUTER SOFTWARE**

The Contractor is authorized to assert, or to authorize the assertion of, claim to copyright in any and all computer software first developed in performance of this contract as authorized by FAR Clause 52.227-14, as modified by NASA FAR Supplement Clause 1852.227-14. Having been granted permission to assert, or authorize the assertion of, claim to copyright in computer software first developed in performance of this contract, the Contractor hereby agrees to assign, or obtain the assignment of, all right, title, and interest in any and all copyrights in computer software first developed in performance of this contract to the U.S. Government. For purposes of defining the rights in the computer software, computer software shall include source codes, object codes, executables, ancillary files, and documentation.

#### **H.14 ADDITIONAL DATA RIGHTS**

(a) Data included in 52.227-14(b) includes, but is not limited to,

- all data input into any Government-owned IT system listed in the SOW
- all computer software developed in performance of this contract
- all processes and procedures developed in performance of this contract
- all data identified as a deliverable under this contract (with the exception of data resulting from the testing of third parties' test articles in NASA LaRC's facilities, wherein such data has associated restrictions limiting the Government's rights in such data)

(b) Pursuant to FAR 27.404(d)(1), FAR clause 52.227-14, Alternate II, paragraph (g)(2)(a) is modified by adding the following after "disclosure:"

- "(1) Use by support service contractors and their subcontractors; and
- (2) Evaluation or assessment by nongovernment evaluators."

(c) Pursuant to FAR 27.404(e)(2), FAR clause 52.227-14, Alternate III, paragraph (g)(3)(i)(b)(5) is modified by adding "and subcontractors" following "Contractors".

(d) Pursuant to FAR 27.404(e)(2), FAR clause 52.227-14, Alternate III, is modified by adding the following paragraphs (f) through (i):

"(f) Where the contractor proposes its standard commercial software license, those applicable portions thereof consistent with Federal laws, standard industry practices, the Federal Acquisition Regulations (FAR) and the NASA FAR Supplement, including the restricted rights in paragraph (b) of this clause, are incorporated into and made a part of this contract.

(g) Although the contractor may not propose its standard commercial software license until after this purchase order/contract has been issued, or at or after the time the computer software is delivered, such license shall nevertheless be deemed incorporated into and made a part of this contract under the same terms and conditions as in paragraph (f) of this clause. For purposes of receiving updates, correction notices, consultation, and similar activities on the computer software, the NASA Contracting Officer or the NASA Contracting Officer's Technical Representative/User may sign any

agreement, license, or registration form or card and return it directly to the contractor; however, such signing shall not alter any of the terms and conditions of this clause.

(h) If the incorporated contractor's software license contains provisions or rights that are less restrictive than the restricted rights in paragraph (b) of this clause, then the less restrictive provisions or rights shall prevail.

(i) The contractor's acceptance is expressly limited to the terms and conditions of this purchase order/contract. If the specified computer software is shipped or delivered to NASA, it shall be understood that the contractor has unconditionally accepted the terms and conditions set forth in this clause, and that such terms and conditions (including the incorporated license) constitute the entire agreement between the parties concerning rights.

## **H.15 HANDLING OF DATA**

(a) "DATA" as used in this clause means recorded information, regardless of the form, the media on which it may be recorded, or the method of recording. The term includes, but is not limited to, models, photos, lab notebooks, diagrams, drawings, information subject to the Privacy Act, information of a scientific or technical nature, computer software (including computer programs, computer data bases, and documentation thereof), and information of a commercial or financial nature.

(b) In the performance of this contract the Contractor will have access to, be furnished, generate, or use one or more of the following categories of DATA:

(1) DATA of third parties that the Government has agreed to handle under protective arrangements (see 18 U.S.C. 1905);

(2) Government DATA, the use and dissemination of which the Government intends to control or is required to control by law (including, but not limited to, export controlled information such as ITAR, 22 C.F.R. Parts 120-130 and EAR, 15 C.F.R. Parts 730-799; and NASA Administratively Controlled Information (see NASA NPG 1620.1);  
or

(3) DATA that the Contractor will create or assist in creating under this contract that the Government has agreed to handle under protective arrangements or indicates that it intends to control.

(c) In order to protect the interests of the Government and the owners, licensors and licensees of such DATA, the Contractor agrees, with respect to any of the types of DATA identified in paragraph (b), above, that is either marked with a restrictive legend, specifically identified to the Contractor as DATA being generated and to be marked with a restrictive legend, or otherwise identified in writing by the Contracting Officer or his or her representative as being subject to this clause, to:

(1) Use, disclose, and reproduce such DATA only to the extent necessary to perform the work required under this contract;

(2) Allow access to such DATA only to those of its employees that require access for their performance under this contract;

(3) Preclude access and disclosure of such DATA by the Contractor's personnel outside of that portion of the Contractor's organization needed for the performance of the Contractor's duties under this contract; and

(4) Return or dispose of such DATA, as the Contracting Officer or his or her representative may direct when the DATA is no longer needed for contract performance.

(d) In the event that DATA includes a legend that the Contractor deems to be ambiguous or unauthorized, the Contractor shall inform the Contracting Officer of such condition. Notwithstanding the ambiguous or unauthorized nature of such a legend, as long as the legend provides an indication that a restriction on the use or disclosure was intended, the Contractor shall treat such DATA pursuant to the requirements of this clause unless otherwise directed, in writing, by the Contracting Officer.

(e) Subject to the notice requirements in (f), below, the Contractor shall not be restricted in the use, disclosure, and reproduction of DATA that:

(1) Is, or becomes, generally available or public knowledge without breach of this clause by the Contractor or its employees;

(2) Is known to the Contractor at the time of disclosure; has been disclosed to the Contractor without restriction from the Government; or has been independently developed by the Contractor outside of the Contractor's activities under this contract;

(3) Has become known to the Contractor without similar restrictions from a source other than the Government or any party having work performed under this contract, that source having the right to disclose such DATA; or

(4) The Contractor is required to produce such DATA pursuant to a court order or similar Government action.

(f) If the Contractor believes that any event or condition removes the restrictions on their use, disclosure, or reproduction of DATA, the Contractor shall promptly notify the Contracting Officer in writing of such belief before acting on such belief, and, in any event, shall give written notice to the Contracting Officer before unrestricted use, disclosure, or reproduction of such DATA.

(g) Before the contractor has access to DATA identified in paragraph (b) above, the Contractor shall provide the Contracting Officer an acceptable written plan by which it intends to assure that its personnel who have or might reasonably have access to any such DATA will honor the Contractor's obligation to safeguard such DATA. Should the Contracting Officer consider the proposed plan inadequate, the Contractor will be advised of the inadequacy and the Contractor will provide a revised plan. The Contracting Officer may suspend work under this contract, at no cost to the Government, until such time as the written plan of the Contractor is considered acceptable to the Contracting Officer.

**H.16 ENABLING CLAUSE BETWEEN ROME CONTRACTOR AND OTHER LANGLEY CONTRACTORS (LaRC 52.215-116) (FEB 2003)**

(a) NASA has entered into contracts with the firms listed below for other support services at Langley Research Center:

<b>Contractor</b>	<b>Services</b>
To Be Awarded	Inspection and Quality Assurance (IQA)
ACS, Inc.	Outsourcing Desktop Initiative for NASA (ODIN)
Raytheon Technical Services Co.	Consolidated Information Technology (ConITS)
MLB Enterprises	Groundskeeping and Pest Control Services

(b) In the performance of this contract, the ROME Contractor agrees to cooperate with the above listed Contractors by: responding to invitations from authorized personnel to attend meetings; providing access to technical information and research, development and planning data, test data and results, schedule and milestone data; limited financial data including estimates, all in original form or reproduced, discussing/coordinating matters related to projects; providing access to Contractor facilities utilized in the performance of this contract; and allowing observation of technical activities by appropriate support Contractor technical personnel.

(c) The Contractor further agrees to include in each subcontract over \$1 million or 10 percent of prime contract value, whichever is less, a clause requiring compliance by a subcontractor and succeeding levels of subcontractors with the response and access provisions of paragraph (b) above, subject to coordination with the Contractor. This agreement does not relieve the Contractor of responsibility to manage subcontracts effectively and efficiently, nor is it intended to establish privity of contracts between the Government or the service Contractor(s) and such subcontractors.

(d) Contractor personnel are not authorized to direct another Contractor in any manner.

(e) To the extent that the work under this contract requires access to proprietary information, and as long as these data remain proprietary, the Contractor shall protect the data from unauthorized use and disclosure.

(f) Neither the Contractor nor their subcontractors shall be required in the satisfaction of the requirements of this clause to perform any effort or supply any documentation not otherwise required by their contract or subcontract.

**H.17 DATA ENTRY INTO WORK ORDER TRACKING SYSTEM (WoRTS) AND CURRENT OME IT BUSINESS SYSTEMS**

(a) At contract award, the Contractor shall utilize the appropriate OME IT Business System listed in SOW Appendix 5.2, OME IT Business Systems, to capture and record all customer requests for services in addition to the Work Ordering Tracking System (WoRTS) as required by SOW Section 5.1.1.

(b) For each service requested, a record shall be entered into the current MIS until MIS integration is complete with the WoRTS system. The Contractor shall capture and populate the same fields for data entry that are currently maintained in the various MIS. All records shall be kept up-to-date as the work progresses.

**H.18 ISSUANCE OF BASE RECURRING WORK (CLINS 1-3)**

(a) The chart below indicates the SOW area and the ordering mechanism that is currently used to request services within that area. These mechanisms shall be used in conjunction with the WoRTS system as described in SOW 5.1.1. Service begins upon receipt of the customer request as described in SOW 1.4.1.1. However, functional approvals as required by the SOW may be required before execution of the work. For SOW paragraphs not listed below, work commences in accordance with the SOW and no further technical direction is required.

(b) Any request that exceeds the limits stated below requires COTR approval.

SOW Para.	Mechanism	Limit	OME IT Business System	*LMS-CP	Form
3.2.1 3.2.2	Instrumentation Work Order (IWO)	\$5K	1. INFO PC 2. WoRTS	506 510	LF 145
3.3.1 3.3.4	DAS Software Change Request (CR) FAS Support	\$5K	1. CM Synergy 2. WoRTS	5528	WP 241
3.1.6 4.1.1 5.3.12	Trouble Calls (TC)	\$5K	1. MAXIMO 2. WoRTS	N/A	N/A
4.1.1 4.1.4 4.1.5 4.1.6 5.3.13	Service Request (SR)	\$5K	1. WoRTS	N/A	N/A

(c) Once the Contractor has determined that a customer request may result in an IDIQ order, the contractor shall meet with the customer and develop the statement of work, the estimated cost/fixed price, schedule, and any required deliverables as necessary in accordance with SOW Section 1. The IDIQ estimate/proposal shall be submitted to the customer and COTR for evaluation and approval in accordance with H-19, Issuance of Non-Recurring Work (Indefinite Delivery Indefinite Quantity (IDIQ) Work Orders (WO) or Task Orders (TO)) (CLIN 4).

**H.19 ISSUANCE OF NON-RECURRING WORK (INDEFINITE DELIVERY INDEFINITE QUANTITY (IDIQ) WORK ORDERS (WO) OR TASK ORDERS (TO)) (CLIN 4.1 and 4.2)**

(a) Services of the type performed in any area of the SOW may be required as part of the IDIQ portion of the contract. The Government will issue IDIQ work either as a Work Order (WO) or Task Order (TO), both of which require additional funding. Orders may be issued as fixed price, cost reimbursable. The Government Purchase Card may also be used to issue fixed price tasks NTE the micropurchase threshold.

(b) The Contracting Officer will issue IDIQ work as it is needed. All IDIQ effort shall be completed in accordance with the SOW requirements, metrics, and approvals, in addition to the requirements as stated within the WO or TO.

(c) The following procedures currently exist to support IDIQ workflow and will be revised by the Government during Phase-in to reflect functional changes as a result of the ROME contract: LMS CP-5612, LMS CP- 5684 ; and LMS CP- 5685.

(d) Establishing Estimated Cost/Price for IDIQ Work

(1) Unless otherwise stated, estimates/proposals are due 10 days after receipt of a WO/TO request. The cost/price proposal from the Contractor shall include the applicable labor and indirect/burdened rates identified in Exhibit B, unless otherwise approved by the CO. In addition, labor hours, material, equipment and other direct costs, and/or any other appropriate information to determine the reasonableness of the Contractor's proposal shall be provided. Proposed material/equipment costs shall include applicable transportation charges and discounts. The following procedures are hereby applicable:

a. Labor

1. Establishing Labor Hour Quantity. The Contractor shall furnish a proposal that includes a detailed breakdown of labor hours for each craft performing work on each IDIQ order. Proposed labor hour quantities shall be based on R. S. Means® Facilities Maintenance & Repair Cost Data, if applicable. If the R. S. Means® Facilities Maintenance & Repair Cost Data does not apply (as mutually agreed upon between the Contracting Officer and the Contractor), the proposed labor hour quantity shall be developed from historical data or another appropriate industry standard labor hour performance guide.

2. Establishing Total Labor Costs. Proposed labor costs shall be determined by totaling the number of labor hours for each craft, and then multiplying by the appropriate unit price labor category from Exhibit B and the discount rate stated in Clause B.8, if any. The unit price for categories of labor not addressed in Exhibit B shall be as mutually agreed upon between the Contracting Officer and the Contractor.

b. Material

1. Establishing Material Quantity. The Contractor shall furnish a proposal that includes a detailed breakdown of material required to perform work on each IDIQ order. Proposed material requirements shall include a list of materials establishing the size, quality, and number of units.

2. Establishing Total Material Costs. Proposed material costs shall be based on the appropriate R. S. Means® Estimating Guide, adjusted to the LaRC area. If the R. S. Means® Estimating Guide does not apply (as mutually agreed between the Contracting Officer and the Contractor), material costs shall be developed from vendor quotes, historical data, or another appropriate industry standard. Proposed material costs shall include applicable transportation charges and discounts, including any discount rate in Clause B.8.

c. Equipment Requirements

1. Establishing Equipment Quantity. The Contractor shall furnish a proposal that includes a detailed breakdown of equipment required to perform work on each IDIQ order. Requirements for equipment shall include the identification of the type, size, capacities, number of units, and hours of use for each unit.

2. Establishing Total Equipment Costs. Equipment costs for IDIQ work shall include only that equipment necessary for performance that is not available from either the IAGP or from recurring work areas of the contract. It is incumbent upon the Contractor to demonstrate the unavailability of such equipment. If such equipment is not available, the total equipment cost shall be established based on the following paragraphs:

a. Proposed equipment costs shall be based on the appropriate R. S. Means® Estimating Guide, adjusted to the LaRC area. If the R. S. Means® Estimating Guide does not apply (as mutually agreed between the Contracting Officer and the Contractor), equipment costs shall be developed from vendor quotes, historical data, or another appropriate industry standard.

b. Cost for equipment operators, when separate operators are required, shall be based on the R. S. Means® standard labor hour basis, historical data, or another appropriate standard as guide lines unless operator cost is included in the equipment rental price or the operator has been provided by the Government.



(2) Proposed Fee shall be 7% of the estimated cost. However, fee for efforts that consist of significant subcontracting and/or material, equipment or supplies to be procured may be adjusted on a case-by-case basis.

(3) The complexity and dollar value of the WO/TO will determine the level of detail required in the Contractor's proposal and shall include, as necessary, technical approach, schedule/milestones, metrics, and any safety or quality requirements. The contractor's proposal may also include the development of a detailed statement of work to support OME/IT functions in accordance with the LMS procedures listed above. The Government may elect to provide the statements of work, which will be determined on a case-by-case basis. An authorized Contractor employee shall sign contractor's estimates/proposals. In the event of a conflict between the requirements of the WO/TO and the Contractor's proposal, the WO/TO shall prevail.

(4) Subcontracts. If the contractor elects to utilize a subcontract for IDIQ work exceeding \$25,000, the contractor's proposal shall include documentation supporting adequate price competition or documentation supporting the fact that the proposed price is fair and reasonable and that the Government is receiving the best value in the contractor's approach to the work. The documentation shall include the bids received, the successful bidder and the basis for award (e.g., low bidder or best value). If competitive quotes are not received, justification of price reasonableness shall be provided. Documentation shall also be in accordance with the contractor's approved purchasing system.

(5) The CO will either approve the proposal or negotiate any areas of disagreement with the contractor. The contractor shall not perform any work on an IDIQ until authorized by the CO. Government Purchase Card IDIQ orders do not require CO approval. See Clause G-7, Government Purchase Card Payment, for functional approval requirements and limitations. The CO reserves the right to accomplish the work with other than this contract.

(6) After review and any necessary discussions between the parties, a WO/TO may be issued to the Contractor containing, as a minimum, the following:

- (a) Date of the order.
- (b) Contract number and order number.
- (c) Statement of work identifying the objectives or results desired, including special instructions or other information necessary for performance.
- (d) Performance and quality assurance standards where appropriate.
- (e) Maximum dollar amount authorized (estimated cost and fee or price).
- (f) Delivery/performance schedule including start (if applicable) and end dates.
- (g) Accounting and Appropriation data.

(7) Work is complete when the requester acknowledges the work has been satisfactorily completed. The Contractor will have 14 calendar days to

complete documentation and update the appropriate OME Business System and/or WoRTS. Invoices shall not be submitted until the data entry and documentation is complete. See Section G for payment terms and conditions.

(8) Documentation--In addition to the proposal documentation requirements stated herein, the Contractor shall deliver all supporting technical documents such as shop drawings, vendors' literature, and specifications as stated in WO/TO.

(e) For those facilities that have Facility Libraries, all supporting documentation shall be processed in accordance with Section 4.1.7. For work at all other facilities, the documentation shall be processed in accordance with Section 3.1.7.10, Facility History Files, if they exist. All other documentation shall be posted to the OME Virtual Library, in accordance with SOW Section 5.1.2.

(f) The contractor shall maintain on-site work/task order documentation to support approach, schedule, and cost for each IQ WO/TO in addition to any documentation required by the Contractor's approved purchasing system.

## **H.20 SAFETY AND HEALTH PLAN**

The Contractor's approved Safety and Health Plan is incorporated as Exhibit G.

## **H.21 LIMITATION OF FUNDS (FIXED-PRICE CONTRACT) (1852.232-77) (MARCH 1989)**

(a) Of the total price of items identified in Section B.5, excluding IDIQ credit card orders, the sum of \$ TBD for fixed price IDIQ work is presently available for payment and allotted to this contract. It is anticipated that from time to time additional funds will be allocated to the contract on a quarterly basis until the total price of said items is allotted.

(b) The Contractor agrees to perform or have performed work on the items specified in paragraph (a) of this clause up to the point at which, if this contract is terminated pursuant to the Termination for Convenience of the Government clause of this contract, the total amount payable by the Government (including amounts payable for subcontracts and settlement costs) pursuant to paragraphs (f) and (g) of that clause would, in the exercise of reasonable judgment by the Contractor, approximate the total amount at the time allotted to the contract. The Contractor is not obligated to continue performance of the work beyond that point. The Government is not obligated in any event to pay or reimburse the Contractor more than the amount from time to time allotted to the contract, anything to the contrary in the Termination for Convenience of the Government clause notwithstanding.

(c) (1) It is contemplated that funds presently allotted to this contract will cover the work to be performed until TBD.

(2) If funds allotted are considered by the Contractor to be inadequate to cover the work to be performed until that date, or an agreed date substituted for it, the Contractor shall notify the Contracting Officer in writing when within the next 60 days the

work will reach a point at which, if the contract is terminated pursuant to the Termination for Convenience of the Government clause of this contract, the total amount payable by the Government (including amounts payable for subcontracts and settlement costs) pursuant to paragraphs (f) and (g) of that clause will approximate 75 percent of the total amount then allotted to the contract.

(3) (i) The notice shall state the estimate when the point referred to in paragraph (c)(2) of this clause will be reached and the estimated amount of additional funds required to continue performance to the date specified in paragraph (c)(1) of this clause, or an agreed date substituted for it.

(ii) The Contractor shall, 60 days in advance of the date specified in paragraph (c)(1) of this clause, or an agreed date substituted for it, advise the Contracting Officer in writing as to the estimated amount of additional funds required for the timely performance of the contract for a further period as may be specified in the contract or otherwise agreed to by the parties.

(4) If, after the notification referred to in paragraph (c)(3)(ii) of this clause, additional funds are not allotted by the date specified in paragraph (c)(1) of this clause, or an agreed date substituted for it, the Contracting Officer shall, upon the Contractor's written request, terminate this contract on that date or on the date set forth in the request, whichever is later, pursuant to the Termination for Convenience of the Government clause.

(d) When additional funds are allotted from time to time for continued performance of the work under this contract, the parties shall agree on the applicable period of contract performance to be covered by these funds. The provisions of paragraphs (b) and (c) of this clause shall apply to these additional allotted funds and the substituted date pertaining to them, and the contract shall be modified accordingly.

(e) If, solely by reason of the Government's failure to allot additional funds in amounts sufficient for the timely performance of this contract, the Contractor incurs additional costs or is delayed in the performance of the work under this contract, and if additional funds are allotted, an equitable adjustment shall be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of the items to be delivered, or in the time of delivery, or both.

(f) The Government may at any time before termination, and, with the consent of the Contractor, after notice of termination, allot additional funds for this contract.

(g) The provisions of this clause with respect to termination shall in no way be deemed to limit the rights of the Government under the default clause of this contract. The provisions of this Limitation of Funds clause are limited to the work on and allotment of funds for the items set forth in paragraph (a) of this clause. This clause shall become inoperative upon the allotment of funds for the total price of said work except for rights and obligations then existing under this clause.

(h) Nothing in this clause shall affect the right of the Government to terminate this contract pursuant to the Termination for Convenience of the Government clause of this contract.

## **H.22 OPTION TO PURCHASE CONTRACTOR-OWNED VEHICLES AND EQUIPMENT**

This clause is applicable to property valued at greater than \$5K and used solely for the performance of this contract. At the end of the contract period of performance, the contractor grants the Government options for the following: (1) the contractor agrees to sell any property used in performance of this contract to the successor contractor at its depreciated value based on the contractor's depreciation schedule; or (2) the contractor agrees to sell any property used in performance of this contract to the Government at its depreciated value based on the Contractor's depreciation schedule; or (3) the contractor agrees to utilize the depreciated property on a follow-on contract if the contractor is the successor contractor; or (4) the contractor agrees to sell the property for fair market value within 120 days after the end of the period of performance and will credit this contract for the amount of any excess of the sale price minus the depreciated value and selling expenses. The Government may exercise one of the above options by unilateral modification issued to the contractor not later than 30 days after the end of the contract period of performance.

## **H.23 ADJUSTMENTS TO EXHIBIT B RATES**

(a) This clause applies to Exhibit B rates that are subject to area prevailing wage determinations and subject to collective bargaining agreements.

(b) This contract includes escalation to cover expected cost increases for which adjustment is provided for in this clause. Therefore, the Contracting Officer will only consider increases for items in paragraph (e) that exceed the escalated amounts in the contract and for which the CO determines the contractor is not responsible.

(c) The wage determination, issued under the Service Contract Act of 1965, as amended, (41 U.S.C. 351, et seq.), by the Administrator, Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, current on the anniversary date of a multiple year contract or the beginning of each renewal award term period, shall apply to this contract. If no such determination has been made applicable to this contract, then the Federal minimum wage as established by section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended, (29 U.S.C. 206) current on the anniversary date of a multiple year contract or the beginning of each renewal award term period, shall apply to this contract.

(d) In accordance with paragraph (b), the contract estimated cost or contract unit price labor rates in Exhibit B will be adjusted to reflect the Contractor's actual increase or decrease in applicable wages and fringe benefits to the extent that the increase is made to comply with or the decrease is voluntarily made by the Contractor as a result of:

(1) The Department of Labor wage determination applicable on the anniversary date of the multiple year contract, or at the beginning of the renewal award term period. For example, the prior year wage determination required a minimum wage rate of \$4.00 per hour. The Contractor chose to pay \$4.10. The new wage determination increases the minimum rate to \$4.50 per hour. Even if the Contractor voluntarily increases the rate to \$4.75 per hour, the allowable price adjustment is \$.40 per hour;

(2) An increased or decreased wage determination otherwise applied to the contract by operation of law; or

(3) An amendment to the Fair Labor Standards Act of 1938 that is enacted after award of this contract, affects the minimum wage, and becomes applicable to this contract under law.

(e) Any adjustment will be limited to increases or decreases in wages and fringe benefits as described in paragraph (c) of this clause, and the accompanying increases or decreases in social security and unemployment taxes and workers' compensation insurance, but shall not otherwise include any amount for general and administrative costs, overhead, or profit.

(f) The Contractor shall notify the Contracting Officer of any increase claimed under this clause within 30 days after receiving a new wage determination or negotiation of a new Collective Bargaining Agreement unless this notification period is extended in writing by the Contracting Officer. The Contractor shall promptly notify the Contracting Officer of any decrease under this clause, but nothing in the clause shall preclude the Government from asserting a claim within the period permitted by law. The notice shall contain a statement of the amount claimed and any relevant supporting data, including payroll records, that the Contracting Officer may reasonably require. Upon agreement of the parties, the contract estimated cost or contract unit price labor rates in Exhibit B shall be modified in writing. The Contractor shall continue performance pending agreement on or determination of any such adjustment and its effective date.

(g) The Contracting Officer or an authorized representative shall have access to and the right to examine any directly pertinent books, documents, papers and records of the Contractor until the expiration of 3 years after final payment under the contract.

## SECTION I - CONTRACT CLAUSES

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### I.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE

NOTICE: The following contract clauses pertinent to this section are hereby incorporated by reference and are applicable to the entire contract unless otherwise noted:

#### I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

CLAUSE NUMBER	DATE	TITLE
52.202-1	DEC 2001	DEFINITIONS
52.203-3	APR 1984	GRATUITIES
52.203-5	APR 1984	COVENANT AGAINST CONTINGENT FEES
52.203-6	JUL 1995	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT
52.203-7	JUL 1995	ANTI-KICKBACK PROCEDURES
52.203-8	JAN 1997	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-10	JAN 1997	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY
52.203-12	JUN 1997	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS
52.204-2	AUG 1996	SECURITY REQUIREMENTS
52.204-4	AUG 2000	PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER
52.209-6	JUL 1995	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT
52.211-5	AUG 2000	MATERIAL REQUIREMENTS
52.211-15	SEP 1990	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS
52.215-2	JUN 1999	AUDIT AND RECORDS - NEGOTIATION
52.215-8	OCT 1997	ORDER OF PRECEDENCE - UNIFORM CONTRACT FORMAT
52.215-11	OCT 1997	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA - MODIFICATIONS
52.215-13	OCT 1997	SUBCONTRACTOR COST OR PRICING DATA-MODIFICATIONS
52.215-14	OCT 1997	INTEGRITY OF UNIT PRICES
52.215-15	DEC 1998	PENSION ADJUSTMENTS AND ASSET REVERSIONS
52.215-17	OCT 1997	WAIVER OF FACILITIES CAPITAL COST OF MONEY

52.215-18	OCT 1987	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS
52.215-21	OCT 1997	REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA – MODIFICATIONS
52.216-7	DEC 2002	ALLOWABLE COST AND PAYMENT Insert 30 <sup>th</sup> in Paragraph (a)(3).
52.216-8	MAR 1997	FIXED FEE (applicable to CLIN 2 and CLIN 4.2)
52.216-18	OCT 1995	ORDERING Insert "contract effective date" through "contract completion" in paragraph (a).
52.216-19	OCT 1995	ORDER LIMITATIONS Insert "\$100" "\$10M", "\$20M", "1", and "2" in paragraphs (a), (b)(1), (b)(2), (b)(3) and (d), respectively.
52.216-22	OCT 1995	INDEFINITE QUANTITY Insert "contract completion date plus six months" in paragraph (d).
52.217-8	NOV 1999	Option to Extend Services Insert "5 days of contract completion"
52.219-8	OCT 2000	UTILIZATION OF SMALL BUSINESS CONCERNS
52.219-9	JAN 2002	SMALL BUSINESS SUBCONTRACTING PLAN (ALTERNATE II) (OCT 2001)
52.219-16	JAN 1999	LIQUIDATED DAMAGES-SUBCONTRACTING PLAN
52.219-25	OCT 1999	SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM - DISADVANTAGED STATUS AND REPORTING
52.222-1	FEB 1997	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES
52.222-2	JUL 1990	PAYMENT FOR OVERTIME PREMIUMS Insert "\$0" in paragraph (a).
52.222-3	AUG 1996	CONVICT LABOR
52.222-4	SEP 2000	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION
52.222-21	FEB 1999	PROHIBITION OF SEGREGATED FACILITIES
52.222-26	APR 2002	EQUAL OPPORTUNITY
52.222-35	DEC 2001	EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.222-36	JUN 1998	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES
52.222-37	DEC 2001	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS
52.222-41	MAY 1989	SERVICE CONTRACT ACT OF 1965, AS AMENDED
52.222-47	MAY 1989	SERVICE CONTRACT ACT (SCA) MINIMUM WAGES AND FRINGE BENEFITS (insert:Incumbent)

		<u>Contractors</u>	<u>Union</u>
		Johnson Controls	Int. Brotherhood of Electrical Workers (IBEW) and Int. Assoc. Machinists (IAM)
		DTSV	IBEW and IAM
		Tessada	IAM
52.223-3	JAN 1997	HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA, ALTERNATE I (JULY 1995)	
52.223-5	APR 1998	POLLUTION PREVENTION AND RIGHT- TO-KNOW INFORMATION	
52.223-6	JAN1997	DRUG-FREE WORKPLACE	
52.223-10	AUG 2000	WASTE REDUCTION PROGRAM	
52.223-11	MAY 2001	OZONE DEPLETING SUBSTANCES	
52.223-12	MAY 1995	REFRIGERATION EQUIPMENT AND AIR CONDITIONERS	
52.223-14	OCT 2000	TOXIC CHEMICAL RELEASE REPORTING	
52.225-5	NOV 2002	TRADE AGREEMENTS	
52.225-13	JUL 2000	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	
52.227-1	JUL 1995	AUTHORIZATION AND CONSENT	
52.227-2	AUG 1996	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	
52.227-11	JUN 1997	PATENT RIGHTS-RETENTION BY THE CONTRACTOR (SHORT FORM) (JUN 97) (AS MODIFIED BY 1852.227-11) (MAY 2002)	
52.227-14	JUN 1987	RIGHTS IN DATA--GENERAL ALTERNATE II (JUN 1987) ALTERNATE III (JUN 1987) AS MODIFIED BY 1852.227-14 NASA FAR SUPPLEMENT (OCT 1995)	
52.227-16	JUN 1987	ADDITIONAL DATA REQUIREMENTS	
52.228-7	MAR 1996	INSURANCE--LIABILITY TO THIRD PERSONS	
52.230-2	APR 1998	COST ACCOUNTING STANDARDS	
52.230-6	NOV 1999	ADMINISTRATION OF COST ACCOUNTING STANDARDS	
52.232-9	APR 1984	LIMITATION ON WITHHOLDING OF PAYMENTS	
52.232-17	JUN 1996	INTEREST	
52.232-22	APR 1984	LIMITATION OF FUNDS	
52.232-23	JAN 1986	ASSIGNMENT OF CLAIMS	
52.232-25	FEB 2002	PROMPT PAYMENT (ALTERNATE I) (FEB 2002)	
52.232-34	MAY 1999	PAYMENT BY ELECTRONIC FUNDS TRANSFER-- OTHER THAN CENTRAL CONTRACTOR REGISTRATION	
		Insert NLT 15 days prior to first submission of request for payment in Paragraph (b)(1).	
52.232-36	MAY 1999	PAYMENT BY THIRD PARTY	
52.232-37	MAY 1999	MULTIPLE PAYMENT ARRANGEMENTS	



52.233-1	JUL 2002	DISPUTES (ALTERNATE I) (DEC 1991)
52.233-3	AUG 1996	PROTEST AFTER AWARD (ALTERNATE I) (JUN 1985)
52.237-2	APR 1984	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION
52.237-3	JAN 1991	CONTINUITY OF SERVICES
52.239-1	AUG 1996	PRIVACY OR SECURITY SAFEGUARDS
52.242-1	APR 1984	NOTICE OF INTENT TO DISALLOW COSTS
52.242-3	MAY 2001	PENALTIES FOR UNALLOWABLE COSTS
52.242-4	JAN 1997	CERTIFICATION OF FINAL INDIRECT COSTS
52.242-13	JUL 1995	BANKRUPTCY
52.243-2	AUG 1987	CHANGES--COST-REIMBURSEMENT (ALTERNATE II) (APR 1984)
52.244-2	AUG 1998	SUBCONTRACTS (ALTERNATE I) (AUG 1998)
52.244-5	DEC 1996	COMPETITION IN SUBCONTRACTING
52.244-6	MAY 2002	SUBCONTRACTS FOR COMMERCIAL ITEMS
52.245-1	APR 1984	PROPERTY RECORDS
52.245-5	JAN 1986	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR-HOUR CONTRACTS) (DEVIATION)
52.245-9	APR 1984	USE AND CHARGES
52.246-23	FEB 1997	LIMITATION OF LIABILITY
52.246-24	FEB 1997	LIMITATION OF LIABILITY – HIGH VALUE ITEMS
52.246-25	FEB 1997	LIMITATION OF LIABILITY-- SERVICES
52.248-1	FEB 2000	VALUE ENGINEERING
52.249-6	SEP 1996	TERMINATION (COST-REIMBURSEMENT)
52.249-14	APR 1984	EXCUSABLE DELAYS
52.251-1	APR 1984	GOVERNMENT SUPPLY SOURCES
52.253-1	JAN 1991	COMPUTER GENERATED FORMS

## II. NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	DATE	TITLE
1852.203-70	JUN 2001	DISPLAY OF INSPECTOR GENERAL HOTLINE POSTERS
1852.204-75	SEP 1989	SECURITY CLASSIFICATION REQUIREMENTS
	Insert:	"Secret" and "Exhibit I" in 1 <sup>st</sup> and 2 <sup>nd</sup> sentences, respectively
1852.204-76	JUL 2002	SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES
		Insert "within 30 days" in paragraph (c).
18-52.209-72	DEC 1988	COMPOSITION OF THE CONTRACTOR
1852.215-84	JUN 2000	OMBUDSMAN
	Insert:	"Christine Darden, direct inquiries to Panice H. Clark, NASA LaRC, MS 126, Hampton, VA 23681-2199; phone (757)864-2522; facsimile (757)864-8541; email

		<a href="mailto:p.h.clark@larc.nasa.gov">p.h.clark@larc.nasa.gov</a> " in paragraph 9b.
1852.216-89	JUL 1997	ASSIGNMENT AND RELEASE FORMS
1852.219-74	SEP 1990	USE OF RURAL AREA SMALL BUSINESSES
1852.219-75	MAY 1999	SMALL BUSINESS SUBCONTRACTING REPORTING
1852.219-76	JUL 1997	NASA 8 PERCENT GOAL
1852.223-74	MAR 1996	DRUG- AND ALCOHOL-FREE WORKFORCE
1852.228-75	OCT 1988	MINIMUM INSURANCE COVERAGE
1852.237-70	DEC 1988	EMERGENCY EVACUATION PROCEDURES
1852.242-78	APR 2001	EMERGENCY MEDICAL SERVICES AND EVACUATION
1852.243-71	MAR 1997	SHARED SAVINGS

III. The following additional clauses are applicable to CLIN 4.1 unless otherwise noted.

52.228-5	JAN 1997	INSURANCE – WORK ON A GOVERNMENT INSTALLATION
52.229-3	JAN 1991	FEDERAL, STATE, AND LOCAL TAXES
52.229-5	APR 1984	TAXES - CONTRACTS PERFORMED IN U.S. POSSESSIONS OR PUERTO RICO
52.232-1	APR 1984	PAYMENTS
52.232-8	FEB 2002	DISCOUNTS FOR PROMPT PAYMENT
52.243-1	AUG 1987	CHANGES—FIXED PRICE, ALTERNATE II (APR 1984)
52.245-2	DEC 1989	GOVERNMENT PROPERTY (FIXED PRICE CONTRACTS) ALTERNATE I (DEVIATION)
52.246-16	APR 1984	RESPONSIBILITY FOR SUPPLIES
52.249-2	SEP 1996	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED PRICE)
52.249-8	APR 1984	DEFAULT (FIXED- PRICE SUPPLY AND SERVICE)

IV. The following clauses are applicable only to construction subcontracts (Ref. H-12)

52.222-6	FEB 1995	DAVIS-BACON ACT
52.222-7	FEB 1988	WITHHOLDING OF FUNDS
52.222-8	FEB 1988	PAYROLLS AND BASIC RECORDS
52.222-9	FEB 1988	APPRENTICES AND TRAINEES
52.222-10	FEB 1988	COMPLIANCE WITH COPELAND ACT REQUIREMENTS
52.222-11	FEB 1988	SUBCONTRACTS (LABOR STANDARDS)
52.222-12	FEB 1988	CONTRACT TERMINATION -DEBARMENT
52.222-13	FEB 1988	COMPLIANCE WITH DAVIS-BACON AND RELATED ACT REGULATIONS
52.222-14	FEB 1988	DISPUTES CONCERNING LABOR STANDARDS
52.222-15	FEB 1988	CERTIFICATION OF ELIGIBILITY
52.222-27	FEB 1999	AFFIRMATIVE ACTION COMPLIANCE REQUIREMENTS FOR CONSTRUCTION
52.225-9	JUN 1997	BUY AMERICAN ACT-CONSTRUCTION MATERIALS (UNDER \$6,806,000)
52.225-11	JUNE 1997	BUY AMERICAN ACT-CONSTRUCTION MATERIALS

		(OVER \$6,806,000)
52.227-4	APR 1984	PATENT INDEMNITY -CONSTRUCTION CONTRACTS
52.228-2	OCT 1997	ADDITIONAL BOND SECURITY
52.228-5	JAN 1997	INSURANCE - WORK ON A GOVERNMENT INSTALLATION
52.228-11	FEB 1992	PLEDGES OF ASSETS
52.228-12	OCT 1995	PROSPECTIVE SUBCONTRACTOR REQUESTS FOR BONDS
52.228-13	OCT 1997	ALTERNATIVE PAYMENT PROTECTIONS
52.228-14	DEC 1999	IRREVOCABLE LETTER OF CREDIT
52.228-15	JUL 2000	PERFORMANCE AND PAYMENT BONDS – CONSTRUCTION
52.232-5	SEPT 2002	PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS
52.232-27	FEB 2002	PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (PARAGRAPH (A)(1)(I)(A) IS MODIFIED TO READ "30 DAYS.")
52.236-2	APR 1984	DIFFERING SITE CONDITIONS
52.236-3	APR 1984	SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK
52.236-5	APR 1984	MATERIAL AND WORKMANSHIP
52.236-6	APR 1984	SUPERINTENDENT BY THE CONTRACTOR
52.236-7	NOV 1991	PERMITS AND RESPONSIBILITIES
52.236-8	APR 1984	OTHER CONTRACTS
52.236-9	APR 1984	PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS
52.236-10	APR 1984	OPERATIONS AND STORAGE AREA
52.236-11	APR 1984	USE AND POSSESSION PRIOR TO COMPLETION
52.236-14	APR 1984	AVAILABILITY AND USE OF UTILITY SERVICES
52.236-15	APR 1984	SCHEDULES FOR CONSTRUCTION CONTRACTS
52.236.21	FEB 1997	SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION —ALT I (APR 1984)
52.236-26	FEB 1995	PRECONSTRUCTION CONFERENCE
52.242-14	APR 1984	SUSPENSION OF WORK
52.243-4	AUG 1987	CHANGES
52.246-12	AUG 1996	INSPECTION OF CONSTRUCTION
52.246-21	MAR 1994	WARRANTY OF CONSTRUCTION --ALTERNATE I (APR 1984)
52.248-3	FEB 2000	VALUE ENGINEERING-CONSTRUCTION
52.249-2	SEP 1996	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED PRICE) ALT I (SEP 1996)
52.249-10	APR 1984	DEFAULT (FIXED-PRICE CONSTRUCTION)
1852.209-72	DEC 1988	COMPOSITION OF THE CONTRACTOR
1852.236-73	DEC 1988	HURRICANE PLAN

**I.2. CLAUSES IN FULL TEXT**

The following contract clauses pertinent to this section are hereby provided in full text and are applicable to the entire contract:

52.252-2	FEB 1998	CLAUSES INCORPORATED BY REFERENCE
52.216-10	MAR 1997	INCENTIVE FEE (only applicable to CLINS 1, 3, 4, 5)
52.215-19	OCT 1997	NOTIFICATION OF OWNERSHIP CHANGES
52.222-42	MAY 1989	STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES
52.223-9	AUG 2000	ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED PRODUCTS
52.227-3	JUN 1987	RIGHTS TO PROPOSAL DATA (TECHNICAL)
52.252-6	APR 1984	AUTHORIZED DEVIATIONS IN CLAUSES
52.236-108 (LaRC)	JAN 2001	TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (applicable only to construction subcontracts, See H-12.)

**I.3 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.arnet.gov/far/> or <http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>

**I.4 NOTIFICATION OF OWNERSHIP CHANGES (52.215-19) (OCT 1997)**

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall-

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

### **I.5 INCENTIVE FEE (52.216-10) (MAR 1997)**

(a) General . The Government shall pay the Contractor for performing this contract a fee determined as provided in this contract.

(b) Target cost and target fee . The target cost and target fee specified in the Schedule are subject to adjustment if the contract is modified in accordance with paragraph (d) of this clause.

(1) "Target cost," as used in this contract, means the estimated cost of this contract as initially negotiated, adjusted in accordance with paragraph (d) of this clause.

(2) "Target fee," as used in this contract, means the fee initially negotiated on the assumption that this contract would be performed for a cost equal to the estimated cost initially negotiated, adjusted in accordance with paragraph (d) of this clause.

(c) Withholding of payment. Normally, the Government shall pay the fee to the Contractor as specified in the Schedule. However, when the Contracting Officer considers that performance or cost indicates that the Contractor will not achieve target, the Government shall pay on the basis of an appropriate lesser fee. When the Contractor demonstrates that performance or cost clearly indicates that the Contractor will earn a fee significantly above the target fee, the Government may, at the sole discretion of the Contracting Officer, pay on the basis of an appropriate higher fee. After payment of 85 percent of the applicable fee, the Contracting Officer may withhold further payment of fee until a reserve is set aside in an amount that the Contracting Officer considers necessary to protect the Government's interest. This reserve shall not exceed 15 percent of the applicable fee or \$100,000, whichever is less. The Contracting Officer shall release 75 percent of all fee withholds under this contract after receipt of the certified final indirect cost rate proposal covering the year of physical completion of this contract, provided the Contractor has satisfied all other contract terms and conditions, including the submission of the final patent and royalty reports, and is not delinquent in submitting final vouchers on prior years' settlements. The Contracting Officer may release up to 90 percent of the fee withholds under this contract based on the Contractor's past performance related to the submission and settlement of final indirect cost rate proposals.

(d) Equitable adjustments. When the work under this contract is increased or decreased by a modification to this contract or when any equitable adjustment in the target cost is authorized under any other clause, equitable adjustments in the target cost, target fee, minimum fee, and maximum fee, as appropriate, shall be stated in a supplemental agreement to this contract.

(e) Fee payable.

(1) The fee payable under this contract shall be the target fee increased by fifty cents for every dollar that the total allowable cost is less than the target cost or decreased by thirty cents for every dollar that the total allowable cost exceeds the target cost.

In no event shall the fee be greater than ten percent or less than four percent of the target cost.

(2) The fee shall be subject to adjustment, to the extent provided in paragraph (d) of this clause, and within the minimum and maximum fee limitations in paragraph (e)(1) of

this clause, when the total allowable cost is increased or decreased as a consequence of-

(i) Payments made under assignments; or

(ii) Claims excepted from the release as required by paragraph (h)(2) of the Allowable Cost and Payment clause.

(3) If this contract is terminated in its entirety, the portion of the target fee payable shall not be subject to an increase or decrease as provided in this paragraph. The termination shall be accomplished in accordance with other applicable clauses of this contract.

(4) For the purpose of fee adjustment, "total allowable cost" shall not include allowable costs arising out of-

(i) Any of the causes covered by the Excusable Delays clause to the extent that they are beyond the control and without the fault or negligence of the Contractor or any subcontractor;

(ii) The taking effect, after negotiating the target cost, of a statute, court decision, written ruling, or regulation that results in the Contractor's being required to pay or bear the burden of any tax or duty or rate increase in a tax or duty;

(iii) Any direct cost attributed to the Contractor's involvement in litigation as required by the Contracting Officer pursuant to a clause of this contract, including furnishing evidence and information requested pursuant to the Notice and Assistance Regarding Patent and Copyright Infringement clause;

(iv) The purchase and maintenance of additional insurance not in the target cost and required by the Contracting Officer, or claims for reimbursement for liabilities to third persons pursuant to the Insurance Liability to Third Persons clause;

(v) Any claim, loss, or damage resulting from a risk for which the Contractor has been relieved of liability by the Government Property clause; or

(vi) Any claim, loss, or damage resulting from a risk defined in the contract as unusually hazardous or as a nuclear risk

and against which the Government has expressly agreed to indemnify the Contractor.

(5) All other allowable costs are included in "total allowable cost" for fee adjustment in accordance with this paragraph (e) unless otherwise specifically provided in this contract.

(f) Contract modification . The total allowable cost and the adjusted fee determined as provided in this clause shall be evidenced by a modification to this contract signed by the Contractor and Contracting Officer.

(g) Inconsistencies . In the event of any language inconsistencies between this clause and provisioning documents or Government options under this contract, compensation for spare parts or other supplies and services ordered under such documents shall be determined in accordance with this clause.

## **I.6 NOTICE OF PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS (52.219-4) (JAN 1999)**

(a) *Definition* . "HUBZone small business concern," as used in this clause, means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

(b) *Evaluation preference* .

(1) Offers will be evaluated by adding a factor of 10 percent to the price of all offers, except-

- (i) Offers from HUBZone small business concerns that have not waived the evaluation preference;
- (ii) Otherwise successful offers from small business concerns;
- (iii) Otherwise successful offers of eligible products under the Trade Agreements Act when the dollar threshold for application of the Act is exceeded (see 25.402 of the Federal Acquisition Regulation (FAR)); and
- (iv) Otherwise successful offers where application of the factor would be inconsistent with a Memorandum of Understanding or other international agreement with a foreign government.

(2) The factor of 10 percent shall be applied on a line item basis or to any group of items on which award may be made. Other evaluation factors described in the solicitation shall be applied before application of the factor.

(3) A concern that is both a HUBZone small business concern and a small disadvantaged business concern will receive the benefit of both the HUBZone small business price evaluation preference and the small disadvantaged business price evaluation adjustment (see FAR clause 52.219-23). Each applicable price evaluation preference or adjustment shall be calculated independently against an offeror's base offer. These individual preference amounts shall be added together to arrive at the total evaluated price for that offer.

(c) *Waiver of evaluation preference* . A HUBZone small business concern may elect to waive the evaluation preference, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply if the offeror has waived the evaluation preference.

\_\_\_ **Offeror elects to waive the evaluation preference.**

(d) *Agreement* . A HUBZone small business concern agrees that in the performance of the contract, in the case of a contract for-

- (1) Services (except construction), at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern or employees of other HUBZone small business concerns;
- (2) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern or other HUBZone small business concerns;
- (3) General construction, at least 15 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns; or
- (4) Construction by special trade contractors, at least 25 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns.

(e) A HUBZone joint venture agrees that in the performance of the contract, the applicable percentage specified in paragraph (d) of this clause will be performed by the HUBZone small business participant or participants.

(f) A HUBZone small business concern nonmanufacturer agrees to furnish in performing this contract only end items manufactured or produced by HUBZone small business manufacturer concerns. This paragraph does not apply in connection with construction or service contracts.

**I.7 52.219-23 NOTICE OF PRICE EVALUATION ADJUSTMENT FOR SMALL DISADVANTAGED BUSINESS CONCERNS (52.219-23) (MAY 2001)**

(a) *Definitions.* As used in this clause- "Small disadvantaged business concern" means an offeror that represents, as part of its offer, that it is a small business under the size standard applicable to this acquisition; and either-

(1) It has received certification by the Small Business Administration as a small disadvantaged business concern consistent with 13 CFR part 124, subpart B; and

(i) No material change in disadvantaged ownership and control has occurred since its certification;

(ii) Where the concern is owned by one or more disadvantaged individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(iii) It is identified, on the date of its representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net).

(2) It has submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 13 CFR part 124, subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted. In this case, in order to receive the benefit of a price evaluation adjustment, an offeror must receive certification as a small disadvantaged business concern by the Small Business Administration prior to contract award; or

(3) Is a joint venture as defined in 13 CFR 124.1002(f).

"Historically black college or university" means an institution determined by the Secretary of Education to meet the requirements of 34 CFR 608.2. For the Department of Defense (DoD), the National Aeronautics and Space Administration (NASA), and the Coast Guard, the term also includes any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

"Minority institution" means an institution of higher education meeting the requirements of Section 1046(3) of the Higher Education Act of 1965 (20 U.S.C. 1067k, including a Hispanic-serving institution of higher education, as defined in Section 316(b)(1) of the Act (20 U.S.C. 1101a)).

"United States" means the United States, its territories and possessions, the Commonwealth of Puerto Rico, the U.S. Trust Territory of the Pacific Islands, and the District of Columbia.

(b) Evaluation adjustment.



(1) The Contracting Officer will evaluate offers by adding a factor of 10 percent to the price of all offers, except-

- (i) Offers from small disadvantaged business concerns that have not waived the adjustment;
- (ii) An otherwise successful offer of eligible products under the Trade Agreements Act when the dollar threshold for application of the Act is equaled or exceeded (see section 25.402 of the Federal Acquisition Regulation (FAR));
- (iii) An otherwise successful offer where application of the factor would be inconsistent with a Memorandum of Understanding or other international agreement with a foreign government;
- (iv) For DoD, NASA, and Coast Guard acquisitions, an otherwise successful offer from a historically black college or university or minority institution; and
- (v) For DoD acquisitions, an otherwise successful offer of qualifying country end products (see sections 225.000-70 and 252.225-7001 of the Defense FAR Supplement).

(2) The Contracting Officer will apply the factor to a line item or a group of line items on which award may be made. The Contracting Officer will apply other evaluation factors described in the solicitation before application of the factor. The factor may not be applied if using the adjustment would cause the contract award to be made at a price that exceeds the fair market price by more than the factor in paragraph (b)(1) of this clause.

(c) *Waiver of evaluation adjustment.* A small disadvantaged business concern may elect to waive the adjustment, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply to offers that waive the adjustment.

\_\_\_\_\_ **Offeror elects to waive the adjustment.**

(d) *Agreements .*

(1) A small disadvantaged business concern, that did not waive the adjustment, agrees that in performance of the contract, in the case of a contract for-

- (i) Services, except construction, at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern;
- (ii) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern;
- (iii) General construction, at least 15 percent of the cost of the contract, excluding the cost of materials, will be performed by employees of the concern; or
- (iv) Construction by special trade contractors, at least 25 percent of the cost of the contract, excluding the cost of materials, will be performed by employees of the concern.

(2) A small disadvantaged business concern submitting an offer in its own name agrees to furnish in performing this contract only end items manufactured or produced by small disadvantaged business concerns in the United States. This paragraph does not apply in connection with construction or service contracts.

### I.8 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (FAR 52.222-42) (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION

Employee Class

Monetary Wage

Employee Class	Monetary Wage
Analyst, Infrared	\$ 18.32
Analyst, Motor	\$ 18.32
Analyst, Oil	\$ 18.32
Analyst, Project	\$ 22.57
Analyst, Project (GIS)	\$ 27.05
Analyst, Vibration	\$ 18.32
Apprentice	\$ 13.69
Architect	\$ 22.57
Asbestos Worker	\$ 16.79
Backhoe Operator	\$ 17.53
Calibration Mechanic	\$ 17.53
Carpenter, Maintenance	\$ 16.79
Clerk, General	\$ 11.01
Computer System Analyst II	\$ 22.57
Crane Operator, Maintenance	\$ 17.53
Data Base Administrator	\$ 22.57
Drafter IV	\$ 15.25
Electrician, Maintenance High Voltage	\$ 18.32
Electrician, Maintenance	\$ 17.53
Elevator Repairer	\$ 17.53
Engineer, (5-15 Years Experience)	\$ 22.57
Engineer, Junior (<5 Years Experience)	\$ 18.66
Engineer, Senior (>15 Years Experience)	\$ 32.17
Engineering Technician I	\$ 9.80
Engineering Technician II	\$ 11.01
Engineering Technician III	\$ 12.31
Engineering Technician IV	\$ 15.25
Engineering Technician V	\$ 18.66
Engineering Technician VI	\$ 22.57
Engineering Drawings Files Clerk	\$ 9.80

Equipment Service Mechanic	\$	17.53
Engineer, Computer (>5 Years Experience)	\$	22.57
Insulator, Pipecover, Maintenance	\$	16.79
Laborer, Class "B" Maintenance	\$	11.21
Laborer, Class All Maintenance	\$	12.14
Librarian	\$	16.89
Machinist, Maintenance	\$	17.53
Machinist, Precision	\$	18.32
Manager, DAS Services	\$	32.17
Manager, IT Services	\$	32.17
Manger, Project (< 10 Years Experience)	\$	22.57
Manger, Project (>10 Years Experience)	\$	32.17
Mason, Bricklayer, Maintenance	\$	17.53
Mechanic, Crane	\$	17.53
Mechanic, Maintenance	\$	17.53
Mechanic, Ref & A/C Maintenance	\$	17.53
Millwright, Maintenance	\$	17.53
Painter, Maintenance	\$	16.79
Pipefitter, Maintenance	\$	17.53
Planner	\$	16.89
Plant Technician	\$	17.53
Plant Technician, Senior	\$	18.32
Precision Machine Repairman	\$	18.32
Production Control Specialist	\$	13.72
Programmer Analyst, Journeyman (>4 Years Experience)	\$	22.57
Programmer Analyst, Junior (>2 Years Experience)	\$	20.55
Programmer Analyst, Senior (>6 Years Experience)	\$	27.05
Rigger, Maintenance	\$	17.53
Roofer, Maintenance	\$	16.79
Sheet Metal	\$	17.53
Stationary Steam Engineer	\$	17.53
Steamfitter	\$	17.53
Surveyor, Licensed	\$	22.57
System Analyst, Journeyman (>4 Years Experience)	\$	27.05
System Analyst, Junior (>2 Years Experience)	\$	22.57
System Analyst, Senior (>6 Years Experience)	\$	32.17
Technician, Ref & A/C Maintenance	\$	17.53
Utility Person	\$	10.28
Water Treatment	\$	16.79
Water Treatment Chemist	\$	17.53
Welder	\$	17.53
Technical Writer	\$	22.57

## FRINGE BENEFITS

Annual Leave - Receives 13 days paid leave for service up to 3 years; 20 days for 3 to 15 years service; and 26 days for 15 years service or over.

Sick Leave - Receives 13 days paid leave per year.

Holidays - Receives 10 paid holidays per year.

Health Insurance - Government pays up to 60% of health insurance.

Group Life Insurance - Government pays two-thirds of life insurance rate premiums.

Retirement - The Government provides three retirement plans identified as the Civil Service Retirement System (CSRS), the Federal Employees Retirement System (FERS), and the CSRS Offset. Under the CSRS, the Government contributes 7% of the employees' base pay towards the retirement benefit and 1.45% towards Medicare. Under the FERS, the Government contributes 11.4% of the employees' base pay towards a basic benefit plan, 6.2% to Social Security, 1.45% towards Medicare, and 1% (plus matching contributions of up to 4% of basic pay, depending on employees' contributions) to a thrift savings plan. Under the CSRS Offset, the Government contributes 0.8% of the employees' base pay towards the retirement benefit, 6.2% to Social Security, and 1.45% towards Medicare. Part-time Federal employees receive pro rata annual leave, sick leave, holiday leave, health insurance, and group life insurance benefits based on the number of hours worked.

### **I.9 ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED PRODUCTS (FAR 52.223-9) (AUG 2000)**

(a) Definitions. As used in this clause--

"Postconsumer material" means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of "recovered material."

"Recovered material" means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(b) The Contractor, on completion of this contract, shall--

(1) Estimate the percentage of the total recovered material used in contract performance, including, if applicable, the percentage of postconsumer material content; and

(2) Submit this estimate to Environmental Management Office, MS 418.

### **I.10 RIGHTS TO PROPOSAL DATA (TECHNICAL) (FAR 52.227-23) (JUN 1987)**

Except for data contained on pages \_\_\_N/A\_\_\_, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing thereon, the Government shall have unlimited rights (as defined in the "Rights in Data--General" clause contained in this contract) in and to the data contained in the proposal dated August 8, 2003, upon which this contract is based.

**I.11 AUTHORIZED DEVIATIONS IN CLAUSES (FAR 52.252-6) (APR 1984)**

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

**I.12 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (LaRC 52.236-108) (JAN 2001)**

A. This clause specifies the procedure for the determination of time extensions for unusually severe weather in accordance with the Contract Clause entitled, "Default (Fixed Price Construction)." In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied.

1. The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

2. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

B. The following schedule of monthly anticipated adverse weather delays is based on historical climatic data for the project location and will constitute the baseline for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

**MONTHLY ANTICIPATED ADVERSE WEATHER CALENDAR DAYS**

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
13	12	11	9	10	11	11	9	7	8	9	10

C. Upon acknowledgment of the Notice to Proceed and continuing throughout the contract, the Contractor shall record the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day.

D. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day in each month, and be recorded as full days. If the number of actual adverse weather delay days exceed the number of days anticipated in the schedule of monthly anticipated adverse weather delays above, the Contracting Officer will determine whether the Contractor is entitled to a time extension.

The Contracting Officer will convert any qualifying delays to equivalent work days and issue a modification in accordance with the Contract Clause entitled, "Default (Fixed Price Construction)." Modifications for unusually severe weather will be for time extensions only and will not include monetary consideration.

## **PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS**

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### **SECTION J - LIST OF EXHIBITS and ATTACHMENTS**

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Exhibit A	Statement of Work
Exhibit B	IDIQ Direct and Indirect Rates
Exhibit C	Contract Documentation Requirements
Exhibit D	Government-Furnished Property (off-site)
Exhibit E	Installation-Accountable Government Property (on-site)
Exhibit F	RESERVED
Exhibit G	Safety and Health Plan
Exhibit H	List of Government Specified Costs for Section B.7
Exhibit I	Contract Security Classification Specification (DD Form 254)
Exhibit J	Register of Wage Determination and Fringe Benefits, dated 7/2/02
Exhibit K	Collective Bargaining Agreements
Exhibit L	IT Security Implementation Plan (To Be Inserted)
Exhibit M	Small Business Subcontracting Plan

Exhibit A

Statement of Work

for

Research Operations, Maintenance  
and Engineering

**ROME**

NASA Langley Research Center

July 30, 2003



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# RESEARCH OPERATIONS, MAINTENANCE AND ENGINEERING

## 1.0 INTRODUCTION

The NASA Langley Research Center (LaRC) in Hampton, VA, has been instrumental in shaping aerospace history for more than eight decades. Established in 1917 as the first National Civil Aeronautics Laboratory, LaRC has become a comprehensive, world-class center for aeronautics, atmospheric science, space technology, and structures and materials research. Further information on the LaRC mission and its contribution to the NASA vision can be obtained from the web site <http://www.larc.nasa.gov>. LaRC possesses a wide variety of unique aeronautical/aerospace research facilities and systems in addition to a large institutional infrastructure, such as roads, central utilities, buildings, structures and installations. A comprehensive facility management program ensures that these facilities are operated, maintained and engineered in accordance with NASA and LaRC mandates, in support of state-of-the-art research testing. LaRC is an OSHA Voluntary Protection Program (VPP) Star site, and the Langley Management System (LMS) is ISO 9001:2000 certified.

## 1.1 SCOPE

The Research Operations, Maintenance, Engineering (ROME) contract includes a broad scope of research facility-related operations, maintenance, engineering and related information technology (OME & IT) support services, including the development of new and emerging capabilities and technologies that will evolve over the life of the contract. While the majority of work is directly in support of LaRC at the Center, other industry partners and Government agencies may be supported, occasionally at remote sites. The Contractor shall, except as otherwise specified, furnish all personnel, training, facilities, equipment materials, transportation, and management necessary to perform the following major categories of work:

- a) Contract management, customer service, work management and control
- b) Research facilities operations and research testing
- c) Central utilities operations, including steam, compressed air, electrical power distribution, facility systems, energy management, and potable water
- d) Research and institutional facility maintenance, repairs, modification, construction and system development
- e) Maintenance services, including reliability centered maintenance, repairs, instrumentation calibration and repair, instrumentation metrology and data systems maintenance
- f) Research and institutional facility and systems engineering, including pre-project planning, design, and construction
- g) Engineering services, including facilities configuration management, reliability engineering, tactical engineering, safety and risk engineering evaluations, pressure system recertification, drafting and project management/planning support

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- h) Research facility technology development, including facility automation systems, data acquisition systems, instrumentation systems and test techniques.
- i) Documentation, drawing files, construction specifications, virtual libraries and library management
- j) OME-related IT services including administration, planning, development maintenance and project management and deployment

### 1.1.1 Facilities

The Contractor shall furnish facility OME and IT services to all LaRC facilities and installations specified in Appendix 1.1, *LaRC Facilities and Installations*. The Government will provide on-site technical and office space for Contractor employees as indicated below:

<b>SOW Section</b>	<b>Space Utilization</b>
1	Limited on-site space is available in Building 1199
2	On-site space will be provided for all facility operations personnel
3	On-site space will be provided for all facility maintenance personnel, except those required to perform SOW Section 3.2 – Instrument Services
4	On-site space will be provided for all engineering personnel required to perform SOW Section 4.1 – General Engineering Services
5	On-site space will be provided for all IT services personnel

### 1.1.2 Acronyms, Appendices, Applicable Regulations

See Appendix 1.2 for *Commonly Used Acronyms*; Appendix 1.3 for *Applicable Regulations, Statutes, Procedures and Standards*; and Appendix 1.4, for the *Table of Contents for Appendices*.

## **1.2 GOALS**

The Contractor shall develop and implement innovative and cost-effective management systems, processes and initiatives to achieve the following specific contract goals while meeting all SOW requirements and performance standards.

### 1.2.1 Excellence in Safety and Occupational Health

NASA safety initiatives include the goal to become the Nation's leader in the safety and occupational health of the NASA work force and in the safety of the products and

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services that NASA provides. Accordingly, the Contractor shall ensure proactive and sustained excellence in providing for the safety and occupational health of the public, astronauts and pilots, employees, and high value equipment and property. Basic characteristics and attributes of safety and occupational health excellence include, but are not limited to:

- a) Achievement of the NASA expectation for zero mishaps in the workplace
- b) A comprehensive and effective safety and health program that includes:
  1. Management commitment and employee involvement
  2. System and worksite hazard analysis
  3. Hazard prevention and control
  4. Safety and health training
- c) A periodic Contractor safety and health self-evaluation and reporting process
- d) Utilization of an OSHA VPP or equivalent third party program evaluation

### 1.2.2 Technical Excellence

The Contractor shall ensure proactive and sustained technical excellence in providing safe, accurate, secure, timely and efficient support to enable LaRC to meet its mission and increase its value to the Nation and to its research customers. Basic characteristics and attributes of technical excellence include, but are not limited to:

- a) Experienced and competent technical leaders in each of the contract's core mission areas
- b) Comprehensive knowledge of the LaRC infrastructure that effectively and consistently meets mission requirements
- c) Highly trained personnel that are experienced, versatile and readily adaptable to new techniques and technology
- d) Effective implementation of OME & IT services and projects that are accurate, thorough, and are performed with a high degree of technical expertise
- e) Proactive research customer engagement resulting in repeat business and the highest level of customer trust and satisfaction in LaRC

### 1.2.3 Effective Leadership, Management and Processes

The Contractor shall provide qualified and experienced leadership, management teams, and processes that deliver high value to the LaRC research community. Basic characteristics and attributes of effective leadership management and processes include but are not limited to:

- a) A strong local and corporate leadership, with demonstrated experience to:
  1. Manage, operate, maintain, and modify large, complex technical, research and institutional facilities



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2. Manage the full spectrum support services necessary to meet all contract requirements
3. Manage change
- b) Processes are streamlined, well-defined, add value, and incorporate meaningful performance measures
- c) Personnel and scheduling flexibility efficiently supports a dynamic requirements environment
- d) Effective lines of communication with all LaRC partners, customers, and interfacing Contractors
- e) Technology improvements, industry best practices, standards and models are used to reduce cost and enhance productivity

### 1.2.4 Facility Reliability and Availability

The Contractor shall ensure asset (e.g. research facilities, plants, offices, utility systems, equipment, and information technology) reliability, availability, maintainability, and configuration management. Basic characteristics and attributes of facility reliability and availability include, but are not limited to:

- a) Support is responsive, well integrated, and thoroughly coordinated with customer and Government requirements
- b) Conflicting requirements are resolved by data-driven solution assessments and sound decision processes
- c) Interruptions to operations are minimal while mission objectives and customer satisfaction are attained
- d) Research schedules are met due to proactive facility maintenance, precise quality control procedures, and accurate configuration management

### 1.2.5 Effective Information Technology Systems

The Contractor shall provide systems and processes that integrate and streamline information flow in order to facilitate timely management decisions, ensure facility reliability provide high quality research data, and increase customer satisfaction. Basic characteristics and attributes of efficient, effective IT and systems include but are not limited to:

- a) Information systems are secure, reliable, available, and in compliance with Government policy and guidelines
- b) Information systems support the OME business goals and objectives and are integral to the daily decision processes
- c) Information meets the customer's needs, is accessible, easy to find, useful and adds value
- d) Data acquisition and facility automation systems are effectively integrated to provide accurate and quality data and safe, responsive facility operation

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- e) The following elements of the E-Government vision set forth in the *President's Management Agenda* are achieved:
- 1) More effective planning of IT investments
  - 2) Creation of easy-to-find single points of access
  - 3) Reduction of the Government and Contractor's reporting burden
  - 4) OME information that is shared more quickly and conveniently
  - 5) Automation of internal processes reduces costs and utilizes Government and industry best practices

### 1.2.6 Cost Reduction and Control

The Contractor shall significantly reduce and aggressively control the cost of LaRC research facility operations, maintenance, and engineering and related information technology services while maintaining technical excellence within manageable levels of risk. Basic characteristics and attributes of cost reduction and control include, but are not limited to:

- a) Cost reduction and improvement initiatives that are well defined, and include justifications, cost-benefit analyses, risk assessments, and implementation plans
- b) Proposed initiatives that leverage ongoing LaRC initiatives and are accelerated to maximize benefits in the early years of the contract
- c) Initiative results that are measured, validated and documented
- d) Cost analysis that is traceable to work outputs and provides real-time information to support mission decisions
- e) Cost that is collected by facility and Work Breakdown Structure (WBS) element to facilitate cost visibility and allocation in conformance with NASA and LaRC policy
- f) Cost control that includes accurate accounting, thorough assessment, timely and sound decisions and recommendations
- g) Customer satisfaction that increases while cost reduction and control is accomplished

### 1.2.7 Creation of a NASA/Contractor Partnership

The Contractor shall participate in the successful creation of a mutually beneficial NASA/Contractor partnership. Basic characteristics and attributes of a successful partnership include substantial progress toward meeting all of the above-mentioned specific objectives. In addition, NASA and the Contractor will collaboratively:

- a) Resolve issues expeditiously and to the satisfaction of customers
- b) Develop and accomplish meaningful metrics
- c) Develop trust and open communications
- d) Evaluate and exploit opportunities for marketing and utilization of LaRC Wind Tunnel facility excess capacity

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- e) Participate in LaRC sponsored formal partnering sessions with the Contractor to be conducted at LaRC. The goal of this initiative is to develop and implement a contract management strategy that becomes mutually beneficial and ingrained within the LaRC culture.

### 1.2.8 Transition of Research Facility OME & IT

On the **contract implementation date**, in accordance with Appendix 1.5, *LaRC OME and IT Transition Management Plan*, and as specified in the SOW, LaRC will establish a partnership with the Contractor to accomplish a transition of LaRC facility OME and IT to a program that involves significant increases in Contractor roles and responsibilities. The transfer of operational expertise from the Government to the contractor will take place during a planned transition period with appropriate and detailed schedules developed for each facility. Appendix 1.5 and this SOW address the LaRC goals, objectives, and specific requirements for accomplishing this major shift in LaRC facility OME and IT strategy. The Contractor shall submit to the Contracting Officer (CO) a Contractor OME and IT Transition Management Plan that correlates with Appendix 1.5 and which addresses, in detail, the Contractor's plan and schedule to accomplish all LaRC OME and IT transition goals, objectives and requirements.

## 1.3 GENERAL REQUIREMENTS

All work shall meet the requirements specified herein and shall be accomplished in conformance with approved and accepted standards of the industry; equipment manufacturers recommendations; all applicable LaRC, local, state, and federal standards; and all applicable codes, as referenced in this document. The Contractor shall perform all facility modification and construction in accordance with specifications and standards contained in SOW Section 4.1.6

### 1.3.1 Configuration Management

The Contractor shall ensure that the configurations of all systems, including facility mechanical, electrical, control, process systems, Data Acquisition Systems (DAS), Facility Automation Systems (FAS) and IT business systems are reviewed, approved in accordance with the appropriate Configuration Management procedures, and placed under configuration management, as required by this contract. See SOW Section 3, Maintenance for DAS configuration management requirements, Section 4, Engineering for Facilities Configuration Management requirements, and Section 5, Information Technology for IT business system configuration management requirements.

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### 1.3.2 Critical Contractor Interfaces

The Contractor will primarily interface with the Research Facilities Management Office (RFMO) for coordinating OME and IT tasks with the Government. However, research test planning and execution will require interface with research customers, other service providers at LaRC, and possibly other external service providers; maintenance and repair work will require interfaces with facility occupants, including Government and contractor employees; engineering services and projects will require interfaces with research customers, RFMO personnel, and facility occupants; and IT services will require interface with all LaRC users of the contractor managed IT systems. The Contractor will interface with the Contracting Officer (CO) and/or Contracting Officer's Technical Representative (COTR) to address and resolve contractual issues. Roles and responsibilities for critical interfaces are identified and expanded in Appendix 1.6, *Critical Contract Interfaces*. In some cases, the position described (e.g. Facility Coordinator or Test Engineer) will be a Contractor employee, while in other cases a NASA employee may hold that position. In either case, LaRC has designated these functions for the performance of specific and vital roles and responsibilities.

### 1.3.3 Licenses and Certifications

The Contractor shall obtain and submit to the CO all licenses required to conduct business (e.g. local or state business licenses) prior to beginning work on this contract. Work requiring personnel licensing and certification shall not commence before the Contractor obtains and submits to the CO the required licensing and certifications as stated below in Section 1.3.4. All licenses and certificates shall be kept up-to-date throughout the contract period.

### 1.3.4 Worker Qualifications

The Contractor shall supply and administer a flexible, competent, and qualified staff, integrated appropriately across all areas of the contract in order to fully support and accomplish the requirements. Subcontractors and/or teaming arrangements shall be fully integrated in the Contractor's management structure. The Contractor shall ensure all personnel are qualified on the basis of appropriate educations, training, experience, and certification to perform assigned tasks, accomplishing safety critical operations in compliance with regulatory requirements and in accordance with site-specific standards and procedures (e.g. Safety Operator). The degree of skill of individuals shall be commensurate with that required for the work. All apprentices and trainees shall be supervised and shall have all work inspected by the applicable lead mechanic, technician, or engineer for their particular field. See Appendix 1.7, *Worker Qualifications* for selected worker qualification requirements.

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### 1.3.5 Training

The Contractor shall develop and implement a training program to accomplish specialize and site-specific training and development of Contractor employees to ensure that worker skills, qualifications, certifications and experience are commensurate with the employees' work assignment and consistent with aerospace/industry standards and NASA requirements. Appendix 1.8, *Systems Requiring Operational Training at the National Transonic Facility* provides a list of systems, devices, and procedures at the National Transonic Facility (Bldg. 1236) that are typical of other aeronautical research facilities and for which contractor employee training and development will be required. Training shall ensure that employees working on high-energy LaRC systems demonstrate knowledge of the overall system concepts and an understanding of the system components and their operating characteristics. Training may include classroom instruction (local or factory), hands-on training, and a practical or written testing and certification program. The Contractor shall establish and maintain a registry of specialized and site-specific Contractor employee qualifications, certifications, and training. The register shall be current to within ten (10) calendar days of any change in the employee's training or qualification status. On a space available basis, and as agreed to between the contractor and the CO, the Contractor shall provide contract related training for selected NASA civil service OME personnel in LaRC facility processes.

#### 1.3.5.1 Training and Certification Plan

The Contractor shall submit to the CO the OME and IT Training and Certification Plan. The plan shall provide a start-to-finish training program that includes all lesson requirements and address, by facility and function, which Contractor employees are qualified to perform specific operations in each facility (both research and central utility facilities). The training and certification plan shall include the current state of workforce readiness, the training required in the upcoming year, recurrent/refresher training required to maintain a fully trained workforce, additional employee improvement training necessary to ensure remediation for personnel that may not have been previously exposed to all test processes or techniques, and methods for accomplishing training in a timely manner. The training and certification plan shall include, but is not limited to:

- a) Description of the contractor OME & IT certification program including a list of required certifications for all technical functions
- b) Training requirements to meet each of those certifications
- c) Training and certification schedule
- d) Procedure that establishes the individual's certification
- e) How certification records will be maintained
- f) Procedures by which NASA and other contractor personnel may obtain training
- g) Instructor training and certification requirements and processes

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### 1.3.5.2 Transition and Post-Transition Training and Certification

During the transition period indicated in Appendix 1.5, the Government will provide for training and certification for both Civil Service and Contractor personnel designated to perform research facility operations in specified research facilities. During the transition period, the contractor shall develop consistent and standardized research facility operations, training and certification processes and procedures. Upon the establishment of consistent and standardized training and certifications processes and procedures, and as mutually agreed upon between both parties, the Government will transfer leadership and overall responsibility for research facility operations training and certifications for specified facilities and functions to the Contractor. Contractor participation in training and certification during the transition period shall be via Technical Direction from the CO.

1.3.5.2.1 The Government will issue temporary (180 calendar day) certificates or permits to Contractor employees who currently hold a valid certificate or permit (under the former contract) as of the **contract implementation date**. Not less than 10 days prior to the **contract implementation date**, the Contractor shall request all required temporary certificates or permits. (Unless otherwise stated in this SOW, the term "days" refers to calendar days.)

1.3.5.2.2 The Contractor shall ensure the quality and integrity of the training and certification program, and provide a process in its Training and Certification Plan for evaluation and implementation of proposed changes to the training and certification process. The change process shall provide clear traceability of changes in production procedures and methods to changed contract and/or facility operations requirements.

### 1.3.5.3 Training Categories

The Contractor shall establish and implement training requirements based on the following categories:

- a) Safety training: Safety training and certifications are specified in LAPG 1740.6, *Personnel Safety Certification* and LAPG 1710.10, *Safety Clearance Procedures (Lockout/Tag)*. Examples include Safety Operator, Ionizing Radiation Worker, Hazardous Material, and High Worker. The Government will issue Safety certifications in accordance with LAPG 1710.10. However, the contractor shall provide Safety Operator Field Certifiers to field certify its own Safety Operator Candidates in accordance with LAPG 1710.10 within six months from the **contract implementation date**.
- b) Operational training: includes all training related to operations (wind tunnel or utilities). Operational training includes, but is not limited to, process, procedures, and institutional equipment safety training. Wind-tunnel operational training includes facility configuration, operation, test or test technique training.

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Facility-specific technical topics that shall be addressed in an operational training program are identified in the Standard Operating Procedures, Integrated Operations Procedures, and in SOW Section 2.

- c) Certification or qualification training includes all training required to obtain/maintain a process or personnel certification/qualification. Process certifications and qualifications are specified in LAPG 1740.7, *Process Systems Certification Program* and as specified in Sections 1.3.4 and 2.1 of this SOW. Certification, when required, shall verify that individuals possess the competencies, skills, and experience pertinent to their work assignment and that those workers demonstrate a working knowledge of the laws, regulations and NASA directives pertinent to their tasks.
- d) Technical training includes ongoing OME and IT training and development required to maintain and expand competencies in state of the art and LaRC specific systems and technologies. Also included is corporate and local support for continuing formal education and on the job training for technical services personnel.

### 1.3.5.4 Instructors

Where the objective of training is to develop certified workers, the contractor shall provide trained and certified instructors to conduct all training activities. The Contractor shall maintain instructor training and certification plans and guides in accordance with the approved training plan (Reference Section 1.3.5.1)

### 1.3.5.5 Knowledge Capture

Civil service personnel will continue providing daily operational support during the transition periods for each major research facility. During the transition period, the Contractor shall develop and implement a process to partner with the Government to enable the Contractor to capture and document the critical knowledge residing with the existing research facility operations workforce. This process shall facilitate safe operations of the affected research facilities during and after the transition period and enhance present and future employee training. This knowledge base currently consists of current OME and IT staff knowledge, experience, and training that is in various stages of documentation, but is largely un-documented. The Contractor shall also acquire knowledge through familiarization with established operating documentation, such as Standard Operating Procedures (SOP) and Integrated Operating Procedures (IOP).

### 1.3.6 Safety and Environmental Requirements

The Contractor shall ensure that all work is conducted in a safe manner and complies with all safety and health directives, instructions, policies, and regulations and any

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revisions, updates, or successor documents to those identified in this contract. The Contractor shall demonstrate proactive and innovative safety and health practices on a continual basis throughout the contract period. The Contractor shall provide an ISO 9001:2000 registered, process-based Safety and Environmental Program. The Safety Program shall include a standard Safety Manual with proven processes and checklists for the contract performance. The Environmental Program shall be based on the Code of Environmental Management Principles for Federal Agencies (61 Federal Regulations 54062 and meet the requirements specified in Executive Order 13148.

### 1.3.6.1 Contractor's Safety and Environmental Program

The Contractor shall establish a proactive safety and environmental program that is commensurate with the LaRC safety policy to provide a safe and healthful workplace for all employees. The contractor shall participate in committees, reviews, and teams to further the safety initiatives at LaRC. The Contractor shall develop a Safety Training and Awareness Program, including documented new employee orientation, routine and special training, active participation in LaRC "Safety Stand-down Days," and safety meeting as required in LAPG 1740.3, *Facility Safety Head and Facility Coordinator Guide*. Personnel training records shall be maintained in accordance with SOW Section 1.3.5. The Contractor shall ensure that its employees report any accident, fire, toxic chemical, electrical, security, flooding, or police emergency in accordance with the CO approved Safety and Health Plan. The Contractor shall report unsafe facility and equipment conditions discovered during the performance of this contract to the Facility Safety Head immediately upon discovery.

### 1.3.6.2 Safety Clearance Procedures (Lockout/Tagout)

The Contractor shall provide certified Safety Operator Field Certifiers and certified Safety Operators to perform Safety Clearance Procedures in accordance with policies and procedures in LAPG 1710.10, as specified in Paragraphs (a) and (b) below. Contractor Safety Operator personnel performing Safety Clearance Procedures are subject to random unscheduled drug testing in accordance with NASA FAR Supplement Clause 1852.223-74.

- a) The Contractor shall perform Safety Clearance Procedures to secure systems and equipment in the performance of this contract. Included are electrical systems up to 115,000 volts, high-pressure systems up to 12,000 PSI, and various mechanical systems and equipment.
- b) The contractor shall also perform Safety Clearance Procedures when needed to secure systems and equipment in (a) above for access by other Contractors and Government personnel.

### 1.3.6.3 Disaster Preparedness



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The Contractor shall provide support when requested by the Emergency Preparedness Officer (EPO) in accordance with LAPG 1046.1, *LaRC Emergency Plan*, to maintain and protect LaRC facilities in the event of manmade (e.g. facility accidents, biohazards) and natural disasters (e.g. weather events). Within 30 calendar days of the **contract implementation date**, the Contractor shall submit to the CO for approval a Disaster Preparedness Plan to support the EPO in response to emergencies. The plan shall also delineate appropriate immediate action to prevent/limit further damage to facilities that have sustained damage from a weather event.

### 1.3.6.4 Potentially Hazardous Materials

The Contractor shall handle, remove, work with, and/or package for disposal, potentially hazardous materials including, but not limited to asbestos, polychlorinated biphenyls (PCBs), coatings and corrosion control waste, and contaminated waste oil as encountered in the performance of the work. Unless otherwise stated, the LaRC Environmental Management Office will perform disposal of all potentially hazardous waste generated at LaRC and will provide appropriate containers as required. Work involving potentially hazardous material shall be performed in accordance with applicable OSHA, EPA, state regulations, NASA and LaRC requirements. When required, potentially hazardous material shall be purchased and inventoried in accordance with LAPG 1710.12, *Potentially Hazardous Materials*, and LAPG 8800.1, *Environmental Program Manual*. The Contractor shall use the Chemical Materials Tracking System (CMTS), <http://osemant1.LaRC.nasa.gov/cmts/instruct/> to report inventory of LaRC purchases of potentially hazardous material. The Contractor shall purchase only those materials required for a specific task and shall enter all approval forms required for the potentially hazardous material purchase in the CMTS within five (5) calendar days of the purchase. The Contractor shall update the LaRC Asbestos Configuration Management Plan (Section 4.1.2.1) when any asbestos is removed from a facility or discovered in a facility in accordance with LAPG 1740.4, *Facility Systems Safety Analysis and Configuration Management*.

### 1.3.6.5 Hazardous Material (HAZMAT) Emergency Response

Under the Trouble Call provisions specified in SOW Section 3.1.6, the Contractor shall provide HAZMAT emergency response 24 hours per day, 7 days per week for biological and chemical HAZMAT incidents including, but not limited to, oil spills, acid spills, fuel spills, weapons of mass destruction events, refrigerant release, waste contamination, and blood. The Contractor shall utilize HAZMAT response equipment and supplies that are stored in the LaRC HAZMAT Trailer, which resides at the LaRC Fire Station exclusively for the response, identification, and cleanup of HAZMAT. The Contractor shall replace any materials consumed from the HAZMAT Trailer within 72 hours of their consumption, including Class A Suits. The Contractor shall provide HAZMAT technicians to meet requirements of NFPA 472 as follows.

- a) During normal working hours – two technicians shall respond to the site within 15 minutes after a request from the LaRC Fire Department. Two additional

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technicians (four total on-site) shall respond to the site if requested by the LaRC Fire Department within one hour after the request.

- b) After normal working hours – The Contractor shall respond by radio or telephonenwithin 15 minutes of a request from the LaRC Fire Department. If requested, up to 4 technicians shall respond to the site within one hour after the request.

### 1.3.7 Contract Security Requirement

Operations of research facilities associated with this contract will require access to Classified National Security Information (CNSI) up to and including Secret. Appendix 2.2 identifies those positions requiring a Personnel Security Clearance Level (PCL).

### 1.3.8 Availability of Utilities

The Government will furnish the utility services at existing outlets for the Contractor's use in those facilities provided by the Government for the work performed under the contract, including electricity, data and voice communications, research liquid & gas products, steam, natural gas, potable water, sewage service, and refuse collection (from existing collection points). The Contractor shall provide and maintain the necessary service lines from the existing Government outlets to the work site. The Government will furnish existing telephones for Contractor use. The Contractor shall use Government telephones for official contract business only. The Government will furnish existing electronic data connections. The Contractor shall use Government electronic data connections for official contract business only. The Government will provide internal mail service. Any radio and wireless communications equipment shall be furnished by the Contractor, and shall be used only upon receipt of approvals and FCC licenses and frequencies for the equipment in accordance with LAPG 2570.5, *FCC Radio Frequency Spectrum Management*.

### 1.3.9 Hours of Operation

Normal business hours at NASA LaRC are 6:00 a.m. to 6:00 p.m. Monday through Friday, except for Federal Holidays. NASA program requirements and testing commitments will dictate the Contractor's work hours and may include 24-hour, 7 days per week operations.

## 1.4 MANAGEMENT AND ADMINISTRATION

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The Contractor shall provide integrated management and administrative services required for performance of all contract activities including, but not limited to, planning, technical, business, and regulatory requirements. Research testing requirements are very dynamic and are peculiar to each research facility, changing and evolving rapidly over the course of each contract year. Accordingly, the Contractor shall provide for proactive and effective workforce management and resource leveling, subcontracting and purchase agreements. Testing requirements for each research facility will be communicated to the Contractor through regularly held planning and coordination meetings and through research facility test schedules, after which it will become the Contractor's responsibility to provide appropriate resources. To the maximum extent possible, the Contractor shall consolidate and streamline OME and IT processes, ensuring that all work is accomplished in a safe and high quality manner, satisfies all performance requirements, and is performed within the required schedule and cost.

### 1.4.1 Customer Services Management

Beginning on the **contract implementation date**, the Contractor shall deliver a Customer Services Management Center (CSMC) to manage and process customer requested services. The CSMC shall also answer customer questions on process and procedures, or requests for additional information and shall coordinate all OME contract related customer training and consultation services. The Contractor shall provide the CO with monthly updates on the CSMC performance that will allow the Government to accurately assess CSMC operations. Basic characteristics and attributes of Customer Services Management include, but are not limited to:

- a) A clear mission statement that reflects the purpose of the CSMC
- b) Clearly defined CSMC goals and measurable objectives, and a strategy to achieve goals and objectives
- c) A program to train CSMC personnel on new and/or upgrades to products and services
- d) A plan for short and long-term marketing of CSMC availability, products, and services
- e) Clearly defined, documented, and understood CSMC contact processes which describe how each type of customer call will be handled, including calls for services not required under this contract and calls received outside of the Customer Services Desk's normal operating hours, and
- f) A procedure to validate that CSMC personnel follow contact processes and that the resulting customer feedback is very good or higher. The program shall include quality contact criteria and an objective scoring technique.
- g) Technology that supports the immediate and long-range CSMC requirements facilitates quality CSMC technician performance and can be quickly and easily understood by CSMC Technicians and customers
- h) An accurate assessment of customer satisfaction with Contractor service delivery and outcomes including a CSMC continuous improvement initiative incorporating customer feedback and involvement

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- i) Use of commercially available customer services desk statistical and trend analysis tools to accurately report on CSMC performance and recurring problems. Include procedures to eliminate and/or remedy recurring problems
- j) Customer self-help support interfaces including population of a knowledge base of customer requests and/or questions and corresponding resolutions and/or answers
- k) Comprehensive on-line reporting of customer services data

### 1.4.1.1 Customer Services Desk

The Contractor shall create a single, on-site OME Customers Services Desk (CSD) to receive and process OME & IT trouble calls, service requests, instrumentation work orders, work orders, task orders, and general customer questions and clarification requests. Customer communications shall come from multiple contact points including, but not limited to, phone, email, web (reference Section 5.1.3., OME Enterprise Information Portal), fax, and walk-ins.

1.4.1.1.1 The Contractor shall utilize a commercial customer services desk support product to electronically manage this service, taking into consideration products available through the LaRC information Technology Architecture and integration with other customer service products currently in use by ODIN and CONITS, (Remedy and Computer Associate's Unicenter Service Plus, respectively).

1.4.1.1.2 The Contractor shall operate the CSD Monday through Friday, 6 a.m. – 5 p.m. excluding federal holidays. Emergency and urgent calls shall be supported 24 hours per day/7days per week. The CSD shall also facilitate effective and proactive communications with OME&IT customers through multiple communication channels including but not limited to email, web, and phone. The Contractor shall automate the CSD tasks and communication with customers to the fullest extent possible while ensuring automation does not degrade customer satisfaction. Work includes, but is not limited to:

- a) Accurate call classification (routine, urgent, emergency) into the appropriate category (e.g. trouble call, service request, work order, task order)
- b) Providing a multi-tier approach to resolving customer requests, problems, and questions including quality Tier 1 (i.e. receives help request (e.g. phone call, email), first level of support) support to resolve routine customer calls and requests for help
- c) Seamless and accurate redirection and tracking of calls from Tier 1 to Tier 2 (i.e. other, more qualified, contract personnel) or Tier 3 (i.e. other contract personnel or external groups such as vendors) and/or other Center customer services desks (e.g. ODIN, CONITS)
- d) Formal recording of calls into the OME Work Request System (Reference Section 5.1.1) and the appropriate *OME IT Business System* (Reference Appendix 5.1) until such time the Work Request Tracking Systems (WoRTS) and

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OME IT business System are integrated (Reference Section 5.1.1.2, WoRTS Release 2 requirements).

- e) Minimizing repetitive entry of customer contact and logistical information by utilizing LaRC data repositories (e.g. Locator, GIS) containing this information and populating ROME CSD unique contact and logistical information.
- f) Ensuring the customer and the involved parties are aware of the call's status and have the capability to track call status via the OME Enterprise Information Portal (reference Section 5.1.3)
- g) Documenting resolution or actions involved in closing out the call and ensuring calls are not closed prior to their completion and the customer's agreement
- h) Issuing customer feedback surveys following the close of each call (reference section 1.4.1.2, Contractor Performance Management and Assessment)

### 1.4.1.2 Contract Performance Management and Assessment

The Contractor shall measure and report to the CO on its timeliness, quality and overall customer satisfaction in all areas of contract service delivery and outcomes. The Contractor shall implement multiple methods to gather and accurately assess Contractor performance including, but not limited to, an automated customer feedback and evaluation mechanism issued within 24 hours following the completion of the rendered service. The Contractor shall post monthly summaries of the performance evaluation results to the OME Virtual Library, ensuring results are available only to the COTR and other personnel designated by the COTR. The Contractor shall provide visibility of summarized Contractor performance metrics to OME and IT customers. The Contractor shall review and analyze customer feedback collected by the Customer Services Desk in order to identify new customer requirements and determine recurring problems with Contractor services and supported IT applications. The Contractor shall present the review findings (segregated by OME and IT) to the COTR at regularly schedule contract status meetings.

### 1.4.1.3 OME Enterprise Information Portal (EIP)

The Contractor shall integrate all CSMC interfaces with the Enterprise Information Portal (reference Section 5.1.3 for development requirements). The EIP shall be the primary electronic interface, through which the services and support provided by the CSMC can be requested and tracked. The EIP shall also be the primary customer interface to an underlying OME Enterprise Architecture and shall promote and support end-user self-sufficiency by making the information contained in the IT business systems more accessible, useful, reliable and easy to find. It shall present to its customers a single interface though which customers can easily complete such tasks as initiate and track requests for service, locate important documents, view consolidated financial reports, and find OME service providers. In addition, the EIP shall be the primary web interface, through which the services provided by the CSMC can be acquired and feedback provided.

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### 1.4.2 Communication

The Contractor shall conduct regular status meetings with the designated Government official at intervals that are mutually acceptable, but at least monthly. At the meetings, service problems and proposed resolutions shall be identified, opportunities for partnering shall be reviewed, assessed, and scheduled, Government and Contractor concerns shall be communicated and resolved, and progress on projects shall be addressed. For all formal meetings between the Contractor and Government personnel, the Contractor shall prepare and issue an agenda at least 2 business days prior to the meeting, and at the meeting, take minutes and record actions. Within 1 business day following the meeting, the Contractor shall post all documents pertaining to and resulting from the meeting to the OME Virtual Library (Section 5.1.2). In addition, the Contractor shall track progress on actions resulting from the meeting until the action is either completed or cancelled. The Contractor and the Government shall communicate as needed during the period between these meetings to discuss and resolve problems, risks, and actions.

### 1.4.3 Documentation Management

The Contractor shall manage all OME and related IT documentation. Documentation includes, but is not limited to, reports, submittals, service manuals, drawings, plans, permits, and warranties. The Contractor shall integrate the management of hardcopy and electronic documents to the fullest extent possible in order to minimize the user's burden to "seek and find" documents in disparate formats and locations. The Document Management Program shall include management of facility libraries (Section 4.1.7) and the delivery and support of an OME Virtual Library (Section 5.1.2).

#### 1.4.3.1 Reports and Submittals

The Contractor shall deliver all reports and submittals to the CO in electronic format. All reports and submittals specified in Appendix 1.9, *Technical Documentation Requirements List (TDRL)*, and Exhibit C, *Contract Documentation Requirements* shall be posted to the OME Virtual Library (SOW Section 5.1.2), unless otherwise directed by the CO. The organization structure for reports and submittals shall be intuitive and flexible; reflecting the organization of the services and products supported. Reports and submittals contained in the library shall be accessible by Government personnel approved by the CO only, without Contractor action. The Contractor shall retain historical reports until such time the CO agrees to their removal. The Contractor shall copy all reports and submittals to a Compact Disk and submit to the CO at the conclusion of each contract year. Reports and submittals shall be posted in both PDF and the document's native format, with access to both formats provided for each report. The Contractor shall use the appropriate products for native file formats.

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### 1.4.4 Process and Procedure Management

To ensure consistent high quality service in the operations, maintenance and repair, and engineering of LaRC systems, the Contractor shall develop new OME and related IT processes and procedures, update and standardize existing OME processes and procedures; and comply with formal controls and periodic reviews of all facility specific processes and procedures (e.g. Center Procedures, Standard Operating Procedures Integrated Operating Procedures). The Contractor shall incorporate within the procedures those proven best practices, technical processes and administrative procedures. Notwithstanding the various levels of technical and management review, all new or revised procedures shall be approved by the COTR and managed using the appropriate LaRC configuration management system.

### 1.4.5 Space Utilization

To ensure efficient utilization of LaRC technical and office space for on-site Contractor maintenance, engineering, and IT personnel, the Contractor shall develop and submit to the CO a space utilization study and recommendation for locating all on-site ROME Contractor personnel. Technical and office space will be provided for Contractor operations personnel within Contractor operated facilities, in accordance LAPD 8800.15, *Facility Utilization Program*. Guidelines for office space utilization for other on-site Contract employees are furnished in LAPD 8800.15.

### 1.4.6 Indefinite Delivery Indefinite Quantity Projects (IDIQ)

SOW Sections 2 through 5 include the provisions for ordering IDIQ projects for non-recurring work not included in the contract "base". IDIQ projects for OME and IT may include, but are not limited to, support for an off-site testing project; major repairs to an existing cooling tower; modifications to an existing facility; and the deployment of a new IT system.

When an IDIQ project is ordered, the Contractor shall follow the instructions furnished in Section H.19 of the contract. As indicated in H.19, the Contractor shall develop IDIQ statements of work, cost and schedule estimates, perform negotiations with customers, acquire functional approvals, and track the progress of the project using the appropriate OME IT Business System. Management and administrative activities associated with IDIQ projects are included in CLIN 1.

### 1.4.7 Continuity of Service

In order to insure continuity of service to the Government and allow contractor workforce leveling, the Contractor shall:

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- a) Perform facility trouble call backlog of approximately 200 calls, some of which will be partially completed.
- b) Perform Instrument Work Order backlog of approximately 200 calls, some of which will be partially completed.
- c) Accept in-process subcontracts for IDIQ work from the incumbent contractor. The estimated number of in-process IDIQ subcontracts at the contract implementation date is 20. The contractor shall cooperate with the incumbent contractor to establish any required subcontract.
- d) The contractor shall cooperate with the incumbent contractor to accept planned and estimated IDIQ work received and processed during the ROME contractor's phase-in period.
- e) The Contractor shall cooperate with the incumbent contractor(s) to provide data entry for OME and IT business systems for work processed and closed out by the incumbent contractor(s) in the 90 days following the ROME contract implementation date.



## 2.0 OPERATIONS

Operations at Langley Research Center (LaRC) involves both research facilities, such as wind tunnels and laboratories, and central utilities, such as the production and/or distribution of steam, high pressure air, electricity, potable water, sanitary sewer, and natural gas. This Section addresses research facility operations goals and objectives; requirements for the Contractor to execute a transition from Government to Contractor operations in several LaRC research facilities; and a description of the required research facility and utilities operations services.

### 2.0.1 Goals and Objectives

The mission of LaRC is to conduct world-class research and technology development in support of the Agency's program requirements. The facilities and infrastructure that are operated at LaRC are vital components of this mission. Within this context, LaRC will maintain a vigilant focus on facility capability to ensure that the Center:

- a) Operates, develops, and maintains world class Center facilities when that level of capability is required to perform its mission
- b) Actively seeks partnering activities to limit infrastructure and duplication of capability
- c) Uses various mechanisms to size facility capacity to meet program requirements, (i.e., the Center will reduce facility operations, put facilities on stand by or close under-utilized facilities not supported by Programs)
- d) Achieves the following LaRC research facility operations and testing objectives
  1. Operating facilities in a safe manner
  2. Providing high-quality data to research customers
  3. Maximizing facility utilization while minimizing downtime
  4. Providing high-quality research customer relations
  5. Completing unique research test goals and objectives

### 2.0.2 Transition of Major Research Facility Operations

On the **implementation date** of the contract, LaRC will begin a transition to Contractor operation of several major aeronautical research facilities. The Government will withdraw its personnel from performing day-to-day operations function in a systematic manner and will convey those responsibilities to the Contractor in accordance with Appendix 1.5. As outlined in Appendix 1.5, the Contractor shall demonstrate competency in the performance of all research facility operations functions (Section 2.1) for the following facilities:

- a) National Transonic Facility (NTF), Building 1236

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- b) Unitary Plan Wind Tunnel (UPWT), Building 1251
- c) 14- by 22- Foot Subsonic Tunnel (14x22), Building 1212C
- d) Transonic Dynamics Tunnel (TDT), Building 648
- e) 8-Foot High Temperature Tunnel (8-Ft HTT), Building 1265

The above list of facilities will be referred to as the major research facilities.

2.0.2.1 Each of the above major research facilities are briefly described in Appendix 2.1, *Description of Major Research Facilities* and additional information can be found at the following website: <http://windtunnels.larc.nasa.gov>.

2.0.2.2 Appendix 2.2, *Current Major Research Facility Staffing* provides information regarding the skill mix, staffing levels and distribution of Government and Contractor employees involved in testing and facility operations for each of the above facilities.

### 2.0.3 Research Facility Test Processes

Within the context of Section 2.0, test processes for Wind Tunnels are defined as sets of generic tasks that must be completed to perform research testing. After the completion of the transition phase addressed in Section 2.0.2 above, the Government will retain the responsibility for performing the test process outlined in Langley Management System (LMS) Center Process (CP)-0501, *Response to Wind Tunnel Test Request*, and the Contractor shall perform wind tunnel testing in accordance with the following test processes:

- LMS-CP-0502: *Wind Tunnel Test Planning*
- LMS-CP-0503: *Wind Tunnel Model Build-Up and Installation*
- LMS-CP-0504: *Conducting a Wind Tunnel Test*
- LMS-CP-0505: *Closing Out a Wind Tunnel Test*

### 2.0.4 Research Facility Procedures

Within the context of Section 2.0, operations procedures are defined as sets of specific tasks that must be followed precisely for the purpose of safely operating research facility systems. The Contractor shall provide operations support for aerospace research facilities, laboratories, and organizations at LaRC in accordance with facility operations procedures referenced in Appendix 1.3. These procedures are specific to each individual facility and include, but are not limited to, Standard Operating Procedures (SOP), Integrated Operating Procedures (IOP), Safety and Emergency Procedures (SEP), Maintenance Operating Procedures (MOP), Preventive Maintenance Procedures (PMP), Maintenance Instruction Procedures (MIP), Administrative Integrated Procedures (AIP), and Facility Management Plans (FMP). The safe and efficient execution of these procedures requires qualified facility personnel with specific technical training, proof of proficiency, and written certification as defined in Sections 1.3.3, 1.3.4,

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and 1.3.5. These personnel qualifications are a prerequisite to implementing the procedures. These research facility procedures are available in Facility Configuration Management Online (FCMOL) (see Appendix 5.1, *OME IT Business Systems*).

### 2.0.5 Roles and Responsibilities

The Contractor shall perform facility operations; research customer service, inspection and quality management for all Contractor furnished facility operations services. The Contractor shall facilitate LaRC research customer involvement in all phases of research facility testing: pre-test, test, and post-test activities. The Government will perform the following functions during and after the completion of all transition activities:

- a) Safety assurance functions
- b) Quality assurance functions
- c) Mission assurance functions
- d) Initial research customer relations for wind tunnel test requests
- e) Input to Contractor regarding the technical approach to test techniques
- f) Establish research facility testing priorities
- g) Partner with the Contractor regarding each of the above

### 2.0.6 Government Furnished Fluids

The Government will furnish the following bulk fluids used in aerodynamic testing:

- a) Liquid and gaseous nitrogen
- b) Liquid and gaseous oxygen
- c) Liquid and gaseous hydrogen
- d) Helium
- e) CF<sub>4</sub>
- f) R-134a
- g) Methane
- h) Silane

## **2.1 RESEARCH FACILITY OPERATIONS**

The Contractor shall provide operations support functions described below in Sections 2.1.1 through 2.1.21 for aerospace research facilities, laboratories, and organizations at LaRC in accordance with test processes defined in Section 2.0.3, and facility operations procedures referenced in Section 2.0.4, and as follows:

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- a) For the facilities specified in Section 2.0.2, the Contractor shall provide the full suite of operations services summarized in Sections 2.1.1 through 2.1.21. These services shall be phased in as indicated in Appendix 1.5.
- b) For facilities listed in Appendix 2.3, *Operations Functions for Other Research Facilities*, the Contractor shall provide the services specified in 2.1.1 through 2.1.21, while working as an integral member of that facility's operations team (consisting of other Contractors and Government personnel). Specific research facility operations functions within each specified research facility are driven by research testing requirements. Facilities listed in Appendix 2.3 (herein referred to as "Other Research Facilities") may be shifted by the Government to 100% contractor operated facilities in the future, requiring the Contractor to provide the full suite of operations services summarized in Sections 2.1.1 through 2.1.21.
- c) The Contractor shall conduct tests in research facilities employing Data Quality Assurance processes. These processes include, but are not limited to, Statistical Quality Control and Check Standard Testing. Statistical Quality Control methods, principles, and procedures shall be followed in every measurement process associated with data to be given to a research facility customer. Further details are presented in Section 2.1.7 and Appendix 2.4, AIAA Paper 2000-2201, *Langley Wind Tunnel Data Quality Assurance – Check Standard Results*.
- d) LaRC research facilities operate multiple or extended shifts depending upon research testing demand. Currently, LaRC is staffed to operate its research facilities at 100% of normal capacity (adequate staffing exists to perform all functions necessary for pre-test, test, and post-test activities simultaneously for 250 normal capacity days per year for the facilities and shifts indicated below). The best current forecast of research testing requirements for the major research facilities are as follows:

Facility	Operations Requirement (% of Normal Capacity)		
	FY 04	FY 05	FY 06 to 13
National Transonic Facility	60%	60%	60%
Unitary Plan Wind Tunnel	72%	70%	50%
14-by 22-Foot Subsonic Tunnel	76%	65%	50%
Transonic Dynamics Tunnel	80%	80%	65%
8-Foot High Temperature Tunnel	80%	80%	80%

- e) The research testing requirements specified in the table above is based upon:
  1. 250 operational days (per year) as normal capacity
  2. Two 8-hour shift operation at NTF, TDT, and 14x22
  3. One 8-hour shift operation at UPWT and 8" HTT

## RESEARCH OPERATIONS, MAINTENANCE AND ENGINEERING

- f) The research testing requirements specified in the table above shall be considered in conjunction with Appendix 1.5 to determine the Contractor's staffing requirements.

### 2.1.1 Operations Management

Operations management for LaRC research facilities includes, but is not limited to, the following duties and responsibilities:

- a) Coordinate and integrate schedules for day-to-day activities
- b) Provide weekly updates and maintain facility and test schedules in aeroCOMPASS (see Appendix 5.1)
- c) Conduct operations in a safe, efficient, and effective manner, maximizing facility utilization and minimizing facility downtime
- d) Maintain facility characteristics and capabilities data in aeroCOMPASS
- e) Interface and negotiate unique test goals and objectives with facility research customers and facility operations personnel to ensure that test plans and objectives are fully satisfied
- f) Ensure that the research customer completes an exit survey in aeroCOMPASS no later than 1 week after each research test
- g) Resolve issues/problems identified on the customer's exit survey
- h) Operate LaRC research facilities in accordance with LaRC commitments to schedules for research testing, planned facility modifications, and performance of major facility repairs
- i) For facility shutdown periods in excess of 2 weeks, perform cost-effective resource leveling to make appropriate use of its facility operations workforce, including cross-utilization of employees, personnel training and temporary staffing reductions

### 2.1.2 Test Engineering

Test engineering duties include, but are not limited to, the following:

- a) Coordinate and conduct all test phases (pre-test, test, and post-test) to operate major research experimental facilities and conduct experimental investigations. In the case of unique testing at research facilities, the research customer may provide guidance during these operations.
- b) Serve as primary facility interface with customer representatives during the entire test process
- c) Ensure the health of the instrumentation and data acquisition systems during the test build-up and execution phases by use of best practice monitoring and diagnostic techniques. These best practices used shall include statistical process control techniques and use the Data Quality Assurance strategies

## RESEARCH OPERATIONS, MAINTENANCE AND ENGINEERING

described in Section 2.1.7, Appendix 2.4, and Appendix 2.5, *Data Quality Assurance Activities for Wind Tunnel Testing*

- d) Serve as the principal authority and technical advisor for the specified facility and assist the research customer in developing and implementing detailed test plans that meet the research customer's needs
- e) Advise research customers on the use of the facility, test techniques, and experimental methods, including facility capabilities and limitations
- f) Maintain all test documentation in an aeroCOMPASS Electronic Test Notebook, as defined in Section 2.1.19.2
- g) Monitor model development and fabrication
- h) Reduce research data and report findings, including quality checks and comparisons of achieved quality to customer requirements
- i) Implement new test techniques developed for the facility, as described in Section 4.2.3.4 or for specific research facility tests

### 2.1.3 Facility Systems Engineering

Facility system engineering services include, but are not limited to, the following:

- a) Consult, analyze, and participate in facility design and modification projects
- b) Troubleshoot mechanical, electrical, controls, pneumatic, and hydraulic systems
- c) Provide instrumentation and engineering monitoring and evaluation of overall system performance and operation of critical facility components. Critical facility components are those that could jeopardize facility operations due to performance degradation or failure. Contractor system performance evaluation includes:
  - 1. Identify facility equipment systems and document required maintenance, adjustment or replacement
  - 2. Identify and correct operations that can cause loss of performance, inefficient use of consumables, and equipment failures or major shutdowns
  - 3. Perform critical facility operational data evaluation on a semi-annual basis and record the result in aeroCOMPASS
  - 4. Identify significant trends and provide a rationale for optimization of the integrated operation and record the result in aeroCOMPASS
  - 5. Identify trends and provide rationale for optimization of integrated operations and record the result in aeroCOMPASS

### 2.1.4 Digital Controller Engineering

Digital controller engineering support duties include, but are not limited to, the following:

- a) Develop, operate, and maintain digital controllers, including digital servo controllers, using existing PCIPro and dSPACE digital controller systems

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- b) Develop and submit written operating instructions for digital control systems as needed to support specific tests of specific test articles to test engineer for review. Operating instructions necessary to implement model control laws shall be completed two months prior to the scheduled research facility test. Each set of instructions shall include general instructions that are applicable to all systems and specific instructions applicable only to the system for which it is being written. The operation instructions shall reside in aeroCOMPASS
- c) Ensure that all digital control and associated interface systems are fully operational, current and available for testing. This includes, but is not limited to, hardware and software upgrades, preventive maintenance, corrective maintenance, design and implementation of programming enhancements, system interfaces, system monitoring and protection subassemblies.

### 2.1.5 Ground Vibration Test Engineering

The Contractor shall perform ground vibration testing for research test articles and shall perform other structural testing activities as required by the test plan (e.g. model stiffness, deformation, static loads, and mass and inertia measurements). The Contractor shall operate and maintain a structural-testing laboratory, currently located in Building 647, as part of the model preparation capability. The Contractor shall perform structural analysis in support of test activities. The Contractor's ground vibration test engineering duties include, but are not limited to, the following:

- a) Ensure compliance of all structural laboratory computer/data acquisition and instrumentation systems with LMC CP-0506, *Selection, Use and Control of Inspection, Measuring and Test Equipment* (IM&TE) and LMS CP-0510, *Procurement of Inspection, Measuring and Test Equipment* (IM & TE).
- b) Maintain instrumentation used in structural testing. Instrumentation (e.g., accelerometers, signal conditioning boxes, impact hammers, load cells) shall be kept in operational ready condition and in calibration. Other equipment such as shakers, cables, and stands shall be maintained in accordance with manufacturers' recommendation and ready for testing.
- c) Maintain Ground Vibration Test (GVT) computer/data acquisition and reduction systems. Current systems use the MTS I-DEAS TEST software along with the NT-based computers and compatible data acquisition systems. The contractor will ensure that the latest versions of I-DEAS TEST software are installed on the GVT computers. The computer system configurations shall be kept ready for test activities through the use of such systems as backups, file storage, and virus protection. These systems are relatively mobile allowing use in various facilities. Two independent systems shall be kept in operational readiness so that a single system failure will not interfere with the wind-tunnel schedule. In the event of a failure rendering a system inoperable, the Contractor shall take immediate action to return to operational readiness via the second GVT system.
- d) Perform GVT on models in preparation for research facilities
- e) Perform structural analysis related to structural testing activities.

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### 2.1.6 Data Systems Support

Data acquisition systems currently deployed in the research facilities are generally networked with control systems, data reduction systems, real-time display systems, and file servers for archiving research data. Most are currently implemented on Modcomp Realstar processors (88100 series - quad processors) with Neff 600 data acquisition system front ends. Several research facilities use the Dec Alpha processors with similar Neff 600 front ends. Research facilities also have Electronic Scanned Pressures (ESP) systems front ends for pressure measurements. Custom hardware has been designed to handle digital input/output interfaces to instruments such as RUSKAS, Mensors, and digital control panels. Data acquisition, data reduction, and real-time display software includes custom software written in C, C++, or Fortran with third party software used for some data acquisition (e.g., Labview, Autonet,) and graphics (Sammi and SL-GMS). Data reduction/archiving software is generally implemented on Sun Workstations or Desktop PC's. Refer to Appendix 3.28, *Data Acquisition Systems Inventory*, for further detail on hardware and software implementations of the data systems.

2.1.6.1 The Contractor shall perform on-site operation of data acquisition and measurement systems. Some systems shall be of a prototype or unique nature where initial performance analysis is required to perform desired system enhancements. The Contractor shall provide data acquisition operations services including, but not limited to, the following:

- a) Pre-test phase
  1. Participate in pre-test meetings with the Government and research customer to determine data systems test specific support requirements, including hardware and software quality assurance requirements
  2. Develop test unique software and integrate it with any Research customer-provided equipment
  3. Build the test setup configuration for the data and control system
  4. Prepare supporting documentation for the test and post in aeroCOMPASS
- b) Testing phase
  1. Validate correct data system and control system test configuration
  2. Validate correct interface and functioning with customer provided equipment
  3. Validate correct operations of unique test support software
  4. Validate correct computation of all parameters, display, and control data
  5. Provide troubleshooting support during the test
  6. Provide operational support for the data and control system during the test
- c) Post-test phase
  1. Provide post-test data reduction support
  2. Document and archive test data, data quality assurance information and test scenario into the Wind Tunnel Test Data Management and Archive System (WTTDMAS) (see Appendix 5.1)
  3. Deliver final data according to research customer's format instruction



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### 4. Address findings in the research customer's test exit survey

2.1.6.2 The Contractor shall perform off-site research operations in support of other NASA Centers or Government Agencies as needed. Off-site support shall include but is not limited to, acoustics and other field tests that require the development, operations, and maintenance of portable DAS and instrumentation systems and special analysis data. The Contractor shall be responsible for all aspects of off-site testing (e.g. transportation, setup, clean-up, data generation and reporting). The Contractor shall develop, maintain, and utilize procedures, which ensure high quality off-site test data is generated. The Government will issue Work Order or Task Order (WO/TO) for off-site operations work. The WO/TO will delineate performance and quality standards.

2.1.6.3 The Contractor shall operate and maintain the video cameras and associated control and data systems that are used for model surveillance and flow visualization data. The systems consist of cameras and PCs that measure model deformation, pressure/temperature paint data, florescent mini-tuft flow visualization data, test article position/attitude and focusing Schlieren flow visualization data. The systems include an environmental control processor with software written in Labview to manage heating and cooling for the system. The video network broadcasts model surveillance for customer observation. The Contractor shall support laser system testing requirements through hardware and instrumentation setup and calibration, system operation, and data acquisition and reduction. The Contractor shall operate laser systems in accordance with LAPG 1710.8, *Nonionizing Radiation*.

### 2.1.7 Data Quality Support

The Contractor shall implement Data Quality Assurance (DQA) methods and technologies within the research facilities as outlined in Appendices 2.4 and 2.5. These duties include, but are not limited to, the following:

- a) Train test engineering and technician personnel in the use of Government furnished DQA methods
- b) Audit the output from metrology activities as applied to standard facility instrumentation and test specific instrumentation
- c) Execute and monitor the DQA tasks within each research customer test and periodic check standard test
- d) Execute at least two check standard probe tests and two check standard model tests in each major research facility annually and execute the DQA tasks associated with each test
- e) Execute DQA tasks within each customer test project

For all tests, the Contract shall provide data quality assurance operations services including, but not limited to, the following:

- a) Pre-test phase

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1. Participate in pre-test meetings with the Government and research customer to determine test-specific data quality assurance support requirements, including measurement uncertainty requirements.
  2. Predict the probable measurement system uncertainty levels for the various test conditions
  3. Predict the probable correction levels, including the effects of wall interference, buoyancy and mounting system (e.g. cavity/base pressures)
  4. Prepare supporting DQA documentation for the test and post in aeroCOMPASS
- b) Testing phase
1. Validate that the instrumentation repeatability is as expected from the pre-test prediction and monitor throughout the test according to procedures supplied by the Government.
  2. Compute post-point classical wall interference corrections for analysis during the test (NTF and 14x22 only)
- c) Post-test phase
1. Provide post-test validation of the pre-test uncertainty estimates
  2. Provide post-test values of wall interference corrections using the wall-pressure system (NTF and 14x22 only)
  3. Document and archive data quality assurance information into the Wind Tunnel Test Data Management and Archive System (WTTDMAS) (see Appendix 5.1)

### 2.1.8 Laser and Dynamic Data Support

2.1.8.1 The Contractor shall operate laser test systems capable of supporting all research test programs in accordance to LAPG 1710.8 and SOP (19-PR-7, *14x22 Subsonic Tunnel, Pre-Operations Procedure for Laser Velocimetry System Operations*, and 19-PO-7, *14x22 Subsonic Tunnel, Pre-Operations Procedure for Laser Velocimetry System Shutdown*). These test systems include test hardware, instrumentation, software, and data systems for laser vapor screen, laser velocimetry, and Doppler global velocimetry test capability. The Contractor shall support laser system testing needs through hardware and instrumentation setup and calibration, system operation, and data acquisition and reduction.

2.1.8.2 The Contractor shall operate the Zonic dynamic data acquisition system, currently located at 14x22, capable of supporting all research test programs. The contractor shall setup the dynamic data acquisition system for all relevant tests conducted in the research facilities. The Contractor shall support dynamic data acquisition needs by obtaining, reducing, and disseminating all data to the Research customers.

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### 2.1.9 Facility Automation and Control Systems Support

Facility Automation and Control Systems (FAS) duties include, but are not limited to, the following:

- a) Support the FAS interface to the DAS and instrumentation used to monitor and diagnose performance of tunnel controls, to analyze facility data, and to assist in post run diagnosis of any FAS anomalies
- b) Perform troubleshooting, checkout, repair of the FAS and perform corrective changes to existing closed-loop control and automated interlock systems
- c) Configure the FAS parameters for proper operations prior to each test with respect to tunnel and test article safety
- d) Record and enter documentation related to the test into aeroCOMPASS
- e) Recommend improvements to the FAS to enhance the operating performance, reliability, efficiency, and test capabilities of the facility

### 2.1.10 Instrumentation Systems Support

The Contractor shall provide instrumentation system support for all test phases (pre, test, and post). The Contractor shall conduct testing to ensure that instrumentation functions as designed, resolve all instrumentation related problems as needed, and participate in the LaRC Metrology Process for facility instrumentation, in accordance with LMS-CP-0506 and LMS-CP-0510. Instrumentation systems support includes, but is not limited to:

- a) Pre-test phase
  1. Initiate and facilitate communications with research customers to ensure needed instrumentation is acquired, properly calibrated and installed without impact to the test schedule
  2. Meet with Government and research customer to determine instrumentation requirements
  3. Develop an instrumentation test plan
  4. Collect instrumentation to support the test from existing instrument inventory
  5. Recommend and purchase instrumentation
  6. Ensure that all required instrumentation is properly calibrated and available to support the test
  7. Design and fabricate any required test apparatus, instrumentation cabling, supporting power systems, customer interface equipment, and other systems necessary to conduct the test
  8. Provide instrumentation hookup lists for the data system, control systems, and customer equipment
- b) Testing Phase
  1. Install instrumentation, provide customer interfaces, fixtures, cabling, and other hardware necessary to conduct the test
  2. Validate correct installation and calibration

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3. Support troubleshooting during the test
- c) Post-test phase
  1. Remove instrumentation, cabling, test fixtures, and other hardware
  2. Support post-test data reduction and data quality activities, as required
  3. Provide final test documentation including related calibration data in aeroCOMPASS
  4. Address and remedy any unacceptable findings in the research customer's test exit survey

### 2.1.11 Test Management

Test and model systems planning, integration, and wind tunnel test management includes, but is not limited to:

- a) Interface with the research customer, test engineering personnel, and operations management to plan and schedule the necessary disciplines required to receive, prepare, install, test, and remove each research test article
- b) Lead the facility team in coordinating, integrating, and scheduling all work in the facility
- c) Prioritize work, delegate task assignments, balance workload, identify training needs, monitor team performance, ensure the readiness of all facility and test support equipment and consumables and conduct safe and efficient test operations

### 2.1.12 Test Article Integration

Test article integration duties include, but are not limited to the following:

- a) Consult with the research customer during test planning, preparation, and test article design and fabrication
- b) Assemble the test article and perform checkout procedures. Test article assembly shall comply with LAPG 1710.15, *Wind Tunnel Model Systems Criteria* and facility Standard Operating Procedures
- c) Install the test article in the wind tunnel test section or other test locations, such as Model Preparation Areas
- d) Disassemble test article and pack for storage or shipment at the end of the test
- e) Inspect and maintain facility hardware components, including, but not limited to, stings, knuckles, adapters, and balance blocks and annually update aeroCOMPASS with component and inventory data

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### 2.1.13 Technical Operations

The Contractor shall operate facilities, test article components, and auxiliary equipment during all test phases (pre-test, test, and post-test). The Contractor shall comply with all applicable SOP, IOP, SEP, MOP, PMP, MIP, AIP, and FMP (see Appendix 1.3). The Contractor shall be certified to operate facility equipment in accordance with these procedures and with LAPG 1740.7, *Process Systems Certification Program*.

### 2.1.14 Electrical System Support

The Contractor electrical system support in research facilities includes, but is not limited to, the following:

- a) Troubleshoot and repair motor generators, drive equipment energized by voltages up to 115,000 volts, interlocking devices and systems, electrical control circuits, Programmable Logic Control (PLC), model injection and control systems electronic regulators, generators, motors, and automatic and manual valve controls and instrumentation
- b) Modify electrical/electronic systems for testing and keep such systems in operational readiness
- c) Provide electrical services to main drive systems for research facilities
- d) Maintain facility electrical drawings, schematics and wiring diagrams for functional use
- e) Operate the main drive panel at the research facilities
- f) Obtain certification to operate the rotating drive equipment in accordance with standard operating procedures and provide real time troubleshooting and repair in accordance with LAPG 1740.7

### 2.1.15 Fluid Systems Support

Liquid and gaseous fluid operations includes compressed air handling, heavy gas compression, reclamation, and storage system, a helium compression and reclamation system, oxygen and methane compressor systems, liquid and gaseous nitrogen pumps and other ancillary equipment, hydrogen, argon, and silane pumping and dispensing systems, and a nitrogen gas evacuation system and nitrogen/cryogenic pumping station. The Contractor fluid handling services in research facilities includes, but is not limited to the following:

- a) Operate of the fluid compressor pumping and dispensing facilities.
- b) Maintain system pressure at their required levels as designed and intended in their respective system design
- c) Identify all system abnormalities upon detection and initiate remedial action
- d) Respond to operational emergencies, that present unsafe conditions, reduce pressure below 90 percent of the normal operating pressure for a period

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- extending beyond 30 minutes or which results in a change in the plant's reliability or capacity
- e) Deliver Government-furnished nitrogen using a Government-furnished vehicle in accordance with LAPG 1710.12, *Potentially Hazardous Materials* in LaRC and Contractor facilities
    - 1. This activity is performed during normal operating hours unless directed otherwise by the CO.
    - 2. Operate the vehicle in accordance with 01-N2-SOP, *Standard Operating Procedure Nitrogen Fill Truck Operations*
    - 3. Maintain records of all nitrogen deliveries. This data shall be recorded electronically into aeroCOMPASS within 24 hours of the delivery and summarized by the Contractor in a Monthly report submitted to the CO by the 5<sup>th</sup> workday of the following month.
  - f) Support off loading of commercially delivered liquid nitrogen, silane liquid oxygen, helium and hydrogen from Department of Transportation (DOT) type trailers to facility storage containers at Building 1236, 1242, 1247, 1265, 1267, and 1277. These duties include both the off loading and disconnecting and connecting of DOT-type tube and tank trailers as required. The Contractor shall follow SOP and checklist for this system, as shown in Appendix 2.6, *List of Off-Loading Service Procedures and Checklists*.

### 2.1.16 Facility Safety

The Contractor shall furnish facility safety head services for the facilities listed in Appendix 2.7, *Facility List for ROME Facility Safety Head, Facility Coordinator and Environmental Coordinator Responsibilities*. For the major research facilities, this function shall be transitioned with the facility according to SOW Section 1.2.8 and Appendix 1.5. The Contractor shall submit a transition plan and schedule for assuming the Facility Safety responsibility for the remainder of facilities listed in Appendix 2.7. Facility safety guidelines are delineated in LAPG 1700.2, *Safety Assignments*, LAPG 1740.2, *Facility Safety Requirements* and LAPG 1740.3, *Facility Safety Head and Facility Coordinator Guide*. Duties include, but are not limited to the following.

- a) Hold monthly Facility Safety Meetings to educate and inform the facility staff on safety issues, lessons learned, and new safety procedures or regulation
- b) Review test article stress reports, recommend to the COTR and review normal and emergency operating procedures, configuration control, safety training and coordination, preventative maintenance, hazard identification and removal, machine guarding and the resolution of workplace hazards. Post all findings and recommendations in aeroCOMPASS
- c) Provide systems safety-engineering services to support the LaRC Facilities Configuration Management program
  - 1. Identify, assess, and control hazards to personnel and equipment associated with the operation, modification, and construction, of LaRC facilities

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2. Perform hazard analyses on a wide range of systems including, but not limited to, high-pressure, cryogenic, high voltage, high temperature, hydraulic, and high speed rotating machinery
3. Perform special safety and facility assurance projects such as updating/developing safety handbooks, performing special safety studies, and performing reliability analysis on a research facility and/or equipment

### 2.1.17 Model Structural Analysis

The Contractor shall provide engineering review of all test article documentation submitted to the facility by the research customer in accordance with LAPG 1710.15, *Wind Tunnel Model Systems Criteria*. Duties include, but are not limited to, the following:

- a) Perform supplementary analysis (e.g., vibration, divergence, flutter) to verify structural integrity of models and associated elements including the model support hardware such as balances, stings, and adapters, roll mechanisms and pitch mechanisms
- b) Determine the test operating boundary limits of the research facility test conditions as a function of allowable loads on the test article, and point out any particular areas of concern regarding the safety of the test article and support system to the Facility Safety Head and test engineer
- c) Provide corrected calibration constants and associated limits for the set up of tunnel load monitoring and model protection and shutdown instrumentation systems (e.g. Balance Dynamic Display Unit (BDDU), Critical Point Analyzer (CPA), Model Protection and Shutdown System (MPSS) II, and Balance Loads And Monitoring System (BLAMS))
- d) Make real-time decisions regarding the safety and integrity of the test article during times when structural changes or modifications are required during the test
- e) Resolve issues regarding fastener clamping applications and torque requirements
- f) Obtain applicable special procedures or test waivers in accordance with LAPG 1710.15 prior to the start of a research customer test

### 2.1.18 Facility Configuration Management

The Contractor shall maintain all respective facility baseline drawings and documentation (SOP, IOP, MOP, MMP, AIP, and SEP) as defined in Section 4.1.2.

### 2.1.19 Facility and Test Documentation

#### 2.1.19.1 Non-Test Related Documentation

## RESEARCH OPERATIONS, MAINTENANCE AND ENGINEERING

The Contractor shall place hard copy facility information, such as equipment manuals and drawings, shall be placed in the Facility Library, described in Section 4.1.7. Non-test related information shall be maintained in aeroCOMPASS to the greatest extent possible, including, but not limited to the following:

- a) Facility Resume, as defined in LAPG 1740.3
- b) Facility Test Schedule
- c) Facility logs (non-test related)

### 2.1.19.2 Test Documentation

The Contractor shall record all test process events and information into an aeroCOMPASS Electronic Notebook in compliance with LMS-CP-0502, *Wind Tunnel Test Planning*.

### 2.1.20 Facility Coordination

The Contractor shall furnish facility coordination services for the facilities listed in Appendix 2.7, *Facility List for ROME Facility Safety Head, Facility Coordinator and Environmental Coordinator Responsibilities*. Facility Coordination guidelines are delineated in LAPD 1700.2 and LAPG 1740.3. For the major research facilities, this function shall be transitioned with the facility according to SOW Section 1.2.8 and Appendix 1.5. The Contractor shall submit a transition plan and schedule for assuming the Facility Coordination role for the remainder of facilities listed in Appendix 2.7. The Contractor shall furnish facility coordinator services for the facilities listed in Appendix 2.7. Contractor duties include, but are not limited to, the following:

- a) Identify scheduled tasks and milestones associated with facility maintenance, repairs, and modifications.
- b) Provide Safety Operators, as described in LAPG 1710.10, *Safety Clearance Procedures* (Lockout/Tagout)
- c) Provide environmental coordination to ensure environmental compliance for the activities performed within the research facilities, as specified in LAPD 8800.1, *Environmental Compliance, Restoration, and Pollution Prevention Program* and in LAPG 8800.1, *LaRC Environmental Program Manual*. Duties include, but are not limited to the following:
  - 1. Ensure all chemicals used in each research facility are properly cataloged and stored
  - 2. Maintain and update a Material Safety Data Sheet (MSDS) for each chemical item used in each facility. The MSDS shall be organized and stored in a notebook that resides in the Facility Library in the major research facilities or an accessible location in other facilities
  - 3. The principal contact for all environmental matters that include, but are not limited to, maintenance, procedures, inspections, and annual training



## RESEARCH OPERATIONS, MAINTENANCE AND ENGINEERING

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  - 1. Ensure all chemicals used in each research facility are properly cataloged and stored
  - 2. Maintain and update a Material Safety Data Sheet (MSDS) for each chemical item used in each facility. The MSDS shall be organized and stored in a notebook that resides in the Facility Library in the major research facilities or an accessible location in other facilities
  - 3. The principal contact for all environmental matters that include, but are not limited to, maintenance, procedures, inspections, and annual training

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4. Ensure that the facility is operated in accordance with all applicable Federal, State, and local Environmental laws and regulations.

### 2.1.21 Facility Scheduling and Integration

The Contractor shall develop facility and test schedules for use by the Government and the Contractor to coordinate research testing, facility operations and maintenance activities. Maintain schedules in aeroCOMPASS and update on a weekly basis.

## **2.2 CENTRAL UTILITY SYSTEMS OPERATIONS**

This Section identifies the requirements for central utility systems supporting the LaRC infrastructure. These essential systems are critical for Research operations throughout the Center, and include:

- a) The West Area Steam Plant (Building 1215)
- b) Service Air and Instrument Air Production (Building 1215)
- c) Research Air Compressor Station (Building 1247E)
- d) Electrical Power Distribution
- e) Potable Water
- f) Sanitary Sewer
- g) Natural Gas

### 2.2.1 The West Area Steam Plant

The Contractor shall provide 24 hours per day, 7 days per week operations and maintenance services for the West Area Steam Plant and all associated systems specified herein. The Steam plant's primary function is the production and distribution of reliable and efficiently produced steam and hot water. Secondary is the production and distribution of service and instrument air. Steam generated at this facility supports the operation of three steam ejectors for research operations, provides building heat in the winter, produces domestic hot water and supports approximately 5 absorption chillers. The operation of the West Area Steam Plant (Building 1215) includes the start-up and shutdown of heating equipment, preventive maintenance (Reference Section 3.1.4), production of service air and the production and distribution of steam. These products are also generated through the operation of several remote sites located on the Center (Reference Section 2.2.1.6). Underground walk-through tunnels (approximately 12,000 linear feet) and shallow trenches (approximately 5,000 linear feet) convey the steam and service air throughout the Center. The domestic hot water is supplied by two (2) instantaneous hot water heaters and circulated by two (2) centrifugal pumps, with one (1) running continuously.

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### 2.2.1.1 Refused-Fired Steam Generating Facility

In addition to service provided from the West Area Steam Plant, LaRC receives steam from the Refused-Fired Steam Generating Facility (RFSGF), Building 1288. The RFSGF is Government-owned and operated and maintained by the City of Hampton, Virginia. The RFSGF produces approximately 378,000,000 pounds of steam per year.

### 2.2.1.2 Steam Production and Distribution System

Production at West Area Steam Plant is approximately 124,000,000 pounds of steam per year. The West Area Steam Plant has a total connected steam capacity of 390,000 pounds per hour using natural gas as fuel or 340,000 pounds per hour using #2 fuel oil. The Contractor shall ensure that steam is produced and distributed safely and efficiently in accordance with LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*. The services the contractor shall provide include, but are not limited to, the following:

- a) Ensure steam is available without interruption to meet LaRC research and institutional requirements. The Contractor will be furnished a minimum of 30 minutes notice when the steam ejectors will be brought on line for research operations.
- b) The Contractor shall operate and monitor boilers and related equipment in accordance with the operational procedures and checklists contain in the Operation Procedures Plan (Reference Section 2.2.7 and Appendix 2.8, *West Area Steam Plant Operation Procedure Plan*).
- c) The Contractor shall furnish propane required for boiler operations and submit documentation to the OME Virtual Library, addressing the annual propane consumed. This submittal shall be furnished within 7 calendar days of September 30<sup>th</sup> each contract year.
- d) The Contractor shall coordinate the Government provided annual third part boiler inspection (Reference PM Program Appendix 3.3, *LaRC PM Program*)
- e) The Contractor shall maintain the West Area Steam Plant operations records (Reference Appendix 2.9, *Central Steam Plant Operations Records*). The Contractor shall ensure all boiler operation records are up-to-date, and readily accessible any time in the OME Virtual Library.
- f) The Contractor shall maintain, monitor and repair the entire steam distribution system including the condensate return system to ensure the system is operational 24 hours per day, 7 days per week.

2.2.1.2.1 The boilers are presently fueled by natural gas. The Contractor shall not convert to an alternate fuel without approval of the CO except in an emergency. In the event of an emergency conversion, the Contractor shall notify the CO in writing on the next business day, providing an explanation of the circumstances and justification for the action taken.

2.2.1.2.2 The Contractor shall maintain a minimum efficiency of 80% in the West Area Steam Plant when the RFSGF is not supplying system steam and 60% in the West Area

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Steam Plant when the RFSGF is supplying system steam. Boiler efficiency shall be documented weekly by calculating the total BTUs Out/total BTUs In and included in Monthly Steam Plant Report (Reference 2.2.1.3).

2.2.1.2.3 The Contractor shall maintain effective communications with RFSGF to ensure that the steam plant operations are closely coordinated with the RFSGF operations, to maximize efficiency and minimize fuel consumption.

### 2.2.1.3 Steam System Documentation

The Contractor shall develop and submit the following documentation in the OME Virtual Library. Monthly submittals shall be posted by the 7<sup>th</sup> calendar day of each month for the previous month's data and annual submittals shall be posted within 7 calendar days after September 30<sup>th</sup>.

- a) Boiler Inspection Annual Report
- b) Annual Boiler Water Chemistry Report
- c) Fuel Consumption and Delivery Monthly Report
- d) Monthly Utility Report
- e) Steam Plant Monthly Report
- f) Steam Plant Propane Monthly Usage Log
- g) Annual Boiler Water Chemicals Used

### 2.2.1.4 Steam Plant Water Treatment

The Contractor shall perform the necessary tests to meet applicable manufacturer requirements or state Water Control Board requirements on hardness, phosphate, sulfite, causticity (alkalinity as OH), pH, conductivity, and total dissolved solids in Parts Per Million (PPM). The Contractor shall develop and submit to the CO for approval, its boiler water sampling, testing, and treatment plan within 90 days of the **contract implementation date**. Changes in the approved water treatment plan shall be made only upon CO approval. The Contractor shall collect feed water, boiler water, and condensate samples from each operating system on Monday, Wednesday, and Friday. The water in the water softener shall be tested four times per shift. Within two working days of collecting the samples, the Contractor shall post the test results in the OME Virtual Library. The Contractor shall provide all water treatment chemicals required for plant operations. The Contracting Officer may require sampling and testing once per shift, specifying the time(s) the samples are taken, observing the sampling extraction, and require an independent laboratory analyze the samples. The Contractor shall maintain the boiler water within the following limits:

- |                  |                   |
|------------------|-------------------|
| a) Phosphate     | 20 – 40 PPM       |
| b) Conductivity: | 2500 – 3000 mmhos |
| c) Sulfite:      | 20 – 50 PPM       |
| d) PH:           | 8.2 to 8.5        |
| e) Hardness      | 0 –1 PPM          |

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- f) Causticity (alkalinity as OH): 200 – 600 PPM
- g) Total Dissolved Solids: 2000 – 4000 PPM

### 2.2.1.5 Steam Plant Fuel

2.2.1.5.1 The Contractor shall maintain the fuel level in each tank at no less than 40% of capacity, and initiate fuel orders directly to the Government fuel supplier when required. The fuel storage capacity for #2 fuel is 250,000 gallons in the five underground storage tanks. The Contractor shall monitor fuel levels on all the fuel tanks and, receive fuel from tanker trucks at Building 1215 (unless otherwise arranged by the Contractor), transfer the fuel to and among storage tanks (including remote sites), and make all operational fuel transfers. The Contractor shall, within 24 hours of receipt, document in the OME Virtual Library the amount of fuel received in each delivery. Tank soundings shall be taken and recorded before and after each fuel delivery to verify the actual quantities. The Contractor shall operate fuel transport equipment to refuel all generators, and diesel pumps. The Contractor shall maintain all fuel oil handling equipment including storage tanks, pumps, fuel transport vehicles, piping, and heaters, and shall comply with all federal regulations pertaining to fuel operations.

2.2.1.5.2 The Contractor shall deliver fuel oil to outlying areas, including emergency generators and remote heating units and post a monthly report of fuel delivered to the OME Virtual Library (Reference 2.2.1.3). The Contractor shall perform weekly visual inspections of all fuel tanks for leaks and post the findings in the OME Virtual Library.

### 2.2.1.6 Remote Steam Operations Remote Boiler Checks

The Contractor shall operate and maintain oil and gas-fired, remote heating units. This shall include, but not be limited to, maintenance of burners, pumps, switches, stacks, firebox chambers, the outer casings, fire tubes, line strainers, fuel tanks, and nozzles. The Contractor shall perform daily checks of remote boilers, furnaces and heat exchangers and post findings (including date of check, problems discovered, and follow-up actions) in the OME Virtual Library on a weekly basis. The remote steam operations systems include:

- a) Three (3) – 350 horsepower boilers at Building 647 and 646
- b) Individual heating units (12) using propane, natural gas and oil
- c) Steam to water heat exchangers in Building 1203 and 1154

### 2.2.1.7 Service Air and Instrument Air Production

The Contractor shall operate, monitor and maintain low-pressure air compressors (two at 110 psig (with one running continuously) and one at 350 psig) located in the West Area Steam Plant. The Contractor shall furnish service and instrument air without interruption 24 hours per day, 7 days per week. The Contractor shall submit air service

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production for the previous month to the OME Virtual Library monthly, within 7 calendar days of the end of the reporting period for both the 110 psig and the 350-psig air supply.

### 2.2.2 Research Air Compressor Station (Building 1247E)

The Contractor shall ensure that high-pressure air is produced and distributed safely and efficiently in accordance with LAPG 1710.40. The high-pressure air distribution systems at LaRC provide compressed air from 110 psi to 6,000 psi. There are approximately 39,000 linear feet of pipe in the system. Six (6) compressors located in Building 1247E produce high-pressure air (5,000 & 6,000 psi) that supports research operations throughout LaRC. The high-pressure air distribution systems include four (4) storage fields that are located behind Building 1247E and several smaller storage fields in other locations on the center. A reducing station at Building 1215 has the capacity to provide the Center 110 psi and 350-psi service and instrument air in emergency situations. The Contractor shall maintain system pressures at their required levels as designed and intended for their respective system operations. The Contractor shall operate the entire compressed air distribution system to provide, continuous air pressure between 350 and 5,800 psig with a dew point no greater than  $-50^{\circ}\text{C}$ , as required. The Contractor shall attend weekly Research Facilities priority meetings as outlined in Section 2.2.8, and shall manage high pressure air production as required to satisfy the demand established at the weekly meeting.

#### 2.2.2.1 High Pressure Air Operation Logs

The Contractor shall maintain daily operations logs, including equipment instrument readings, operator tasks assigned, routine maintenance performed, and emergency conditions. The Contractor shall post the operation logs and records daily to the OME Virtual Library.

#### 2.2.2.2 High Pressure Air Production

The Contractor shall operate and monitor compressors and related equipment identified in accordance with the operational procedures and checklists contained in the approved *Operation Procedures Plan* (Reference Section 2.2.7). The Contractor shall use the following standard operating procedures and checklists:

- a) 01-PR-1: *Pre-Operational Procedure, Comp. Preparation*
- b) 01-PR-2: *Pre-Operational Procedure, Dryer Preparation*
- c) 01-PR-3: *Pre-Operational Procedure, Air Sys. Valve Crossover*
- d) 01-OP-1: *Operational Procedure*
- e) 01-PO-1: *Operations Checklist*
  1. Compressor and Dryer Preparation
  2. Operations & Shutdown Procedure to Ready Oraid (Green) Air
  3. Dryer, Start-Up

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4. Shut-Down Procedures for Ingersoll-Rand (Green) Air Compressor
5. Procedure to Ready Building 643 Air Dryer
6. Start-Up & Shutdown Procedure for Worthington (White) Air Compressor

### 2.2.3 Electrical High Voltage Distribution System

LaRC electrical distribution systems include solid-state industrial controls and large contactors and switchgear that operate at voltages up to 115,000 volts. The high voltage distribution system includes, but is not limited to, all underground and overhead distribution cables, manholes, switchgear, substations and pad mounted transformers, within the range of 115kv, 22kv, 38.5kv, 6.9kv, and 2.4kv primary voltages, including all 600v secondary switchgear and feeders into facilities. High voltage electrical work is not confined to the property of LaRC, but includes limited support to the Refused-Fired Steam Generated Facility consisting of the 2.4 kV feeder up to and including air switch number 4S13 located at RFSBF. NASA also provides electrical power for Langley AFB; however, the Contractor's responsibility for support is limited to reading several electrical meters (Reference to Appendix 3.23, Electrical Meter Locations) and performing Lockout/TagOut on NASA devices supplying electrical power to the Air Force Base.

#### 2.2.3.1 Electrical Distribution System Requirements

The Contractor shall ensure the safe and efficient conveyance of electrical power to meet all end user requirements. The Contractor shall operate, maintain, construct, repair, and/or replace the electrical systems and components that comprise the high voltage distribution system. The Contractor shall ensure system and components continuously furnish a steady, fault-free power supply 24 hours per day, 7 days per week. All persons working on high voltage electrical systems shall be properly trained and familiar with applicable codes and standards (See Appendix 1.7, Worker Qualifications). The Contractor shall provide the following support:

- a) Scheduling and coordinating of electrical power outages (See Section 3.1.7.6). Verifying switching procedures and tracking outage requests for construction work. Resolving issues such as the use of alternate feeders and emergency generators as needed to facilitate outage requests
- b) Reporting electrical system status
- c) Completing preventive maintenance, troubleshooting, and repairs of system components (Reference Appendix 3.3) including, but not limited to, defective substation equipment and substation yard fences, routine circuit breaker/transformer relay maintenance, relay adjustments, meter installation and repair, cathodic protection systems, vacuum filling oil transformers, and surge suppression systems
- d) Performing analysis of electrical distribution systems including, but not limited to, maintaining and updating the EDSA fault current analysis program (See Section 4.2.4.3.1.5)

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- e) Making recommendations for equipment replacement and system improvements
- f) Providing a safety watch for personnel performing work in designated high voltage substations
- g) Completing commissioning tests on selected new installations, and witnessing selected field tests performed by ROME and other contractors. Performing quality assurance checks of selected high voltage power distribution equipment. Verifying all new high voltage distribution system connections, protective device settings, and coordination curves prior to energizing the system
- h) Providing coordination and configuration control of breaker settings (all electrical system protective devices)
- i) Issuing and controlling switch, circuit breaker, cable and manhole numbers, as required
- j) Updating and maintaining all electrical distribution system documentation including, but not limited to, switching diagrams, manhole drawings, protective relay settings and circuit breaker overload settings, and test reports
- k) Providing operations, maintenance and repair of electrical backup systems
- l) Holding regular meetings and coordinating work with the LARC Standard Practice Engineer (SPE) for Electrical Systems to discuss identified system deficiencies and concerns

### 2.2.4 Potable Water

Domestic water is supplied by Newport News Waterworks through an 8-inch line with a meter and a back flow preventor located behind Building 1146. There are two water pumps in Building 1215 that raise the water pressure to 76-80 psi for filling the 500,000 gallon elevated water tank that provides fire protection and reserve capacity. The potable water system components consist of copper, PVC, CPVC, cast iron, and galvanized materials. During the past ten years approximately 95% of the distribution system piping has been replaced utilizing PVC. There are approximately 87,000 linear feet of pipe in the system. The Pressure Gauge readout and domestic water booster pumps are located at building 1215, the Steam Generation Plant. The system has isolation valves at each facility with loop capability to provide water bypass.

#### 2.2.4.1 Potable Water System

The Contractor shall operate the entire LaRC potable water system up to the first valve in from the Newport News Water Works System (Reference Appendix 2.10, *Potable Water System Operation Procedure Plan*). Included is monitoring the potable water operation, providing maintenance, repairing, managing the Center's cross connection program, evaluating system performance and making recommendations to the CO for equipment replacement and system improvements. Potable water flow shall be maintained within LaRC properties so as to prevent interruptions of services, contamination, and to ensure compliance with applicable health and regulatory agency standards 24 hours per day, 7 days per week. The Contractor shall ensure that only personnel certified by the Commonwealth of Virginia Health Department perform maintenance and repair work on cross connection devices. The system pressure shall



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be monitored and maintained to ensure system pressure of between 76 and 80 PSI. The Contractor shall monitor the condition of the water distribution system for leaks and make prompt repair as required. The Contractor shall operate the domestic water booster pumps located in Building 1215 to ensure that the system operates at 100% of the design capacity at all times. The Contractor shall document and submit monthly to the OME Virtual Library, by the 5<sup>th</sup> business day, the previous months water meter readings for all facilities with water meters (Reference Appendix 2.11, *Water Meters to be read*).

### 2.2.5 Sanitary Sewer

The sanitary sewer system at LaRC is composed of pipe sizes up to 24-inch diameter cast iron, PVC and terra cotta main lines. The piping system consists of approximately 36,000 linear feet of sewer mains that convey sewage through gravity lines and/or force mains utilizing thirty automatically operated sewage pumping stations. High water alarms are installed in the pits and are monitored 24 hours a day by the duty officers in Building 1215. All sewage is collected at Building 1223 and pumped off the center through an 8 inch PVC forced main and insertion valve (which records total sewage flow and is read out in Building 1215) to Hampton Roads Sanitation District (HRSD) line located at North Armistead Avenue, Route 172, Hampton Virginia. A constant pressure of 60 PSI is maintained when pumping from Building 1223 to the HRSD System. Primary and secondary power sources have been installed to reduce the impact from a localized power failure. The contractor is responsible for the system up to the HRSD shutoff valve located outside of the perimeter fence, just north of Building 1212C, along side Route 172.

#### 2.2.5.1 Sanitary Sewer Operation Requirements

The Contractor is responsible for the sanitary sewer system within the confines of LaRC property (Reference Appendix 2.12, *Sanitary Sewer Operation Procedure Plan*). The Contractor shall monitor the sanitary sewer system to ensure that the system provides sewage collection and disposal capability throughout LaRC 24 hours per day, 7 days per week. The Contractor shall maintain, and repair the sanitary sewer system at NASA LaRC in order to provide the safe, reliable, and efficient conveyance of sanitary sewage. The Contractor shall monitor and maintain a constant system pressure of 60 psi are the forced feed main that connects to the HRSD System. The Contractor shall ensure free flow is maintained in gravity lines within LaRC properties. The Duty Officer in Building 1215 monitors sewage pumping stations high water alarms. The Contractor shall document and submit to the OME Virtual Library, the 5<sup>th</sup> business day of each month, the amount of sewage discharged for the previous month (Reference Appendix 2.13, *Sewage Meter to be Read*).

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### 2.2.6 Natural Gas Distribution

The Contractor shall monitor, maintain and repair the natural gas distribution system (Reference Appendix 2.14, *Natural Gas Readings Report*) in each facility from the isolation valve to the main distribution system. The Contractor shall submit to the OME Virtual Library by the 5<sup>th</sup> business day of each month, the amount of natural gas usage and cost by facility for the previous month. The natural gas distribution system up to isolation valve for each facility is owned and maintained by Virginia Natural Gas.

### 2.2.7 Operations Procedures Plans

2.2.7.1 The Contractor shall standardize and establish formal control and periodic review of the following operations procedure plans (OPP) for the operations, maintenance, and repair of the following LaRC systems:

- a) Steam Plant (Appendix 2.8)
- b) High Pressure Air Plant (Contractor to develop)
- c) Potable Water (Appendix 2.10)
- d) Sanitary Sewage (Appendix 2.12)

2.2.7.2 The Contractor shall incorporate within the OPP those proven “best industry practices” and technical processes and administrative procedures. Plans shall be submitted to the CO for approval within 90 days of contract start and reviewed and updated annually.

### 2.2.8 Facility Priority Meeting

The Contractor shall participate in the Facility Priority Meeting. This meeting is held weekly on Friday morning and conducted by the Government. The purpose of the meeting is to determine the priorities for shared resources, such as staffing, and utilities, such electricity and high-pressure air. A representative from each research facility, Government or Contractor, presents a short summary of their current facility status and the expected staffing and utility needs for the upcoming week. At the conclusion of the meeting, the priorities are set for the upcoming week.

## 2.3 FACILITY OPERATIONS PROJECTS

The Contracting Officer (CO) may issue Work Orders (WO) or Task Orders (TO) for facility operations projects involving services described in Section 2. The Contractor shall create a record in the appropriate OME IT Business System at the time work is requested, and shall complete the record within 15 calendar days after work completion.

### **3.0 MAINTENANCE**

Facility and facility system maintenance at LaRC involves all activities necessary to insure that LaRC facilities (Reference Appendix 1.1, *LaRC Facilities & Installations*) and facility systems are safe, fully operational, reliable and available on demand. LaRC facility maintenance is reliability centered, and includes Preventive Maintenance (PM), facility and system repairs (Reference Appendix 3.1, *CMMS Equipment Inventory*), Inspection Measurement and Test Equipment (IM&TE) (Reference Section 3.2), Data Acquisition Systems (DAS) maintenance and repair (Reference Section 3.3), Facility Automation Systems (FAS) maintenance and repair (Reference Section 3.3.4) and Maintenance Projects (Reference Section 3.4).

#### **3.0.1 Maintenance Goals and Objectives**

LaRC facility maintenance involves the aggressive and proactive pursuit and implementation of the safest and most cost-effective blend of Reliability Centered Maintenance (RCM) management, procedures, technology and industry best practices. The Contractor shall develop and implement a comprehensive facility RCM program and establish the most efficient maintenance organization to protect the health and safety of personnel, protect the environment, protect and preserve LaRC facility capability and capital investment, enable mission performance and minimize facility life-cycle costs. Basic characteristics and attributes of a comprehensive and cost-effective facility RCM program includes, but is not limited to, documented evidence of:

- a) Improvements in facility condition, availability, and system reliability
- b) Improvements in facility maintenance data quality, collection, accuracy and application
- c) Improvements in maintenance customer service and customer satisfaction
- d) Improvements in cost avoidance for facility system repair and replacement
- e) Benchmarking and the identification and assimilation of new and emerging facility maintenance technologies and industry best practices
- f) Continuous maintenance program assessments and improvements by measuring against objective maintenance program performance criteria

### **3.1 FACILITY MAINTENANCE SERVICES**

The Contractor shall develop and implement a comprehensive facility RCM program in accordance with NPG 8831.2D, *NASA Facilities Maintenance Management*. Major RCM program elements include: Annual Work Plan (AWP), Annual Facility Condition Assessment (FCA) and Preventive Maintenance (PM). The Contractor shall:

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- a) Develop and submit to the CO a RCM Program Management Plan (Reference 3.1.3) including standards, guidelines and criteria for performing RCM analyses, data collection procedures, and a plan for incorporating RCM analysis results into the LaRC PM program
- b) Perform Root Cause Failure Analysis (RCFA) on all equipment/systems where a pattern of multiple failures occurs or failure that results in a repair or replacement cost exceeding \$5,000. The Contractor shall post a record of all RCFA in the OME Virtual Library.

### 3.1.1 Annual Work Plan (AWP)

The Contractor shall develop and submit annually (by Nov 1<sup>st</sup>) to the CO an AWP as specified below and in accordance with NPG-8831.2D, *NASA Facilities Maintenance Management*. The AWP is a guide for the next Fiscal Year (FY) maintenance activity, based upon findings and recommendations from the current FY, and provides assurance that LaRC maintenance priorities are followed and that the Contractor's RCM program progresses in a proactive versus a reactive mode of operation.

3.1.1.1 The AWP shall be developed and submitted to the NASA Maintenance Manager for approval before implementation. The AWP is intended to be a flexible working document, incorporating changes throughout the year (as approved by the CO) to accommodate emerging mission and customer requirements in addition to requirements identified during the FCA that cannot wait for the next FY budget cycle. The AWP shall also address the following:

For the current Fiscal Year (FY):

- a) Summary of the facility condition assessment inspections (Reference Section 3.1.2)
- b) Identification of systems/equipment with inherent reliability issues (including callbacks) and recommendations to mitigate these issues (Reference Section 3.1.3)
- c) Identification of emerging trends and areas of deficiency (Reference Section 3.1.3)
- d) Significant accomplishments and analysis of impacts for each RCM Activity (Reference Section 3.1.3)
- e) Total facility maintenance resources expended (in labor hours and dollars) for each facility maintenance category (e.g. Preventive Maintenance (PM), Trouble Calls (TC), Facilities Maintenance Investment (FMI), Replacement of Obsolete Items (ROI), Environmental, Other and major repairs)
- f) Impact of all previously approved facility PM changes (Reference Section 3.1.4)
- g) Annual Benchmarking Report (Center Management Metrics), performed in accordance with NPG 8831.2D, *NASA Facilities Maintenance Management*
- h) Evaluation of maintenance customer satisfaction

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For the coming FY:

- a) Total resources projected for the coming FY (in labor hours and dollars) for each category of maintenance (e.g. PM, TC, FMI, ROI, major repairs)
- b) Strategies to mitigate specific facility system and RCM program deficiencies
- c) Projected metrics and objectives to demonstrate continuous improvement in each RCM activity

### 3.1.2 Facility Condition Assessment (FCA)

The Contractor shall perform FCA inspection annually on all LaRC assets in accordance with NPG 8831.2D, *NASA Facilities Maintenance Management* and immediately report all unsafe conditions discovered to the Facility Safety Head. The Contractor shall separate the FCA by the following categories:

- a) Structure: foundations, superstructure, slabs and floors
- b) Exterior: wall coatings, windows, doors and exterior sealants
- c) Roofing: roof coverings, openings, gutters and flashing (The Contractor shall utilize roof inspection sheet in the GIS ESRI database, reference section 5.3.9.2)
- d) HVAC: including controls and balancing devices
- e) Electrical: service and distribution, lighting, security and fire protection system
- f) Plumbing: steam, water, sewer, fire protection, gas
- g) Conveying: elevators, cranes and other lifts
- h) Interior: all interior finishes including wall coverings, flooring and ceilings
- i) Corrosion: corrosion control coatings applied to facilities
- j) Roads: roads, pavements and curbs
- k) Equipment: collateral facility electrical and mechanical equipment

3.1.2.1 The Contractor shall record, maintain and validate the following FCA data in the CMMS for each maintainable asset:

- a) Date of asset assessment
- b) Asset location, description, equipment number, attributes or nameplate data
- c) Condition Code and specifics of unacceptable or deteriorated condition
- d) Recommendations, justifications, and engineering cost estimate for corrective actions
- e) Current Replacement Value (CRV) of asset
- f) Engineering Estimate of asset's remaining useful life

### 3.1.3 RCM Program Management Plan

The Contractor shall implement a continuous RCM program management plan for the Center's maintainable assets in accordance with NPG-8831.2D, *NASA Facilities Maintenance Management*. The Contractor shall develop a RCM program management

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plan that establishes the criteria for performing RCM that includes, but is not limited to, data collection procedures, analysis techniques and evaluation methods. The Contractor's plan shall include the metrics that will be used to continuously assess the maintenance program effectiveness, including identification of areas for improvement and how proposed changes will be implemented. The Contractor's plan shall include the methods that will be used to determine when it is not cost effective to perform repairs. The Contractor shall submit the RCM Management Plan within six months of **contract implementation date**, and implement the plan upon approval by the CO. The Contractor shall provide and document training in RCM techniques and procedures for all individuals performing RCM analysis. The Contractor shall maintain RCM analysis standards in the OME Virtual Library for review at any time.

### 3.1.4 Preventive Maintenance (PM)

The Contractor shall perform the LaRC PM Program (Reference Appendices 3.3, *LaRC PM Program* and Appendix 3.4, *PM Job Plans*) as specified in the CMMS. The PM program establishes the minimum requirements and frequency for each scheduled PM and Predictive Testing and Inspection (PT&I) task for facilities, systems, utilities and equipment. The Contractor shall coordinate all PM work with the Facility Coordinator, post (60 days in advance by facility) all scheduled PM tasks for each month to the OME Virtual Library and minimize interference with normal facility operations. The Contractor shall update and validate all approved changes (Reference LMS-CP-5616, *CMMS Change Request*) to the PM program in the CMMS. The Contractor shall track all changes to the PM program in total labor hours by craft and materials cost and post an annual report to the OME Virtual Library. The Contractor shall record all PM data in the CMMS within 10 business days of completion, including but not limited to:

- a) Date PM was completed
- b) Actual labor hours by craft for each PM activity
- c) Materials, quantities and cost, used on each PM activity
- d) Test and inspection results, measurements, readings
- e) Condition code and condition data
- f) PM Finds (Equipment deficiencies noted and actions taken to repair)

### 3.1.5 Predictive Testing and Inspection (PT&I)

The Contractor shall perform the LaRC PT&I program specified in the CMMS (Reference Appendix 3.3, *LaRC PM Program*), including development of PT&I standards detailing inspection and analysis criteria and analysis of all PT&I results. Inspection and analysis criteria shall be posted in the OME Virtual Library within 30 days of **contract implementation date** and shall be based on test equipment vendor recommendations, established industry standards and the following techniques:

- a) Test against established limits

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- d) Trend Analysis
- c) Comparison Analysis
- d) Statistical Analysis
- e) Correlation with other test techniques

3.1.5.1 The Contractor shall document all PT&I finds that indicate a change in equipment reliability or service in the CMMS in a format that allows for analysis tracking and reporting. PT&I find documentation shall include, but not be limited to, the following:

- a) All required PM program documentation
- b) Date and time of last PT&I inspection
- c) Applicable test and inspection technology
- d) Notification of a PT&I find to Facility Coordinator
- e) Summary of Test Results and Analysis
- f) Recommended corrective action
- g) Cost Analysis: cost of failure avoidance, cost of corrective action
- h) Actual labor hours and material used
- i) PT&I completion date

The Contractor shall submit PT&I find documentation to the COTR by the 15<sup>th</sup> calendar day of each month for the previous month.

3.1.5.2 The Contractor shall perform follow up PT&I on all equipment where corrective action results from a PT&I task or in the performance of acceptance testing and inspection (Reference 3.1.7.2) of new equipment/systems. Where applicable, the Contractor shall apply PT&I technology when it is advantageous to validate the quality and effectiveness of the repairs. The follow up PT&I task shall be performed at a frequency and duration to establish a new baseline for analysis on the equipment/system.

3.1.5.3 Documentation requirements for completed PT&I work shall be as indicated in Section 3.1.4, Preventive Maintenance.

### 3.1.6 Trouble Calls (TC) Minor Repairs

The Contractor shall receive and respond to all TC requesting the Contractor to correct, repair, or restore minor facility structural, mechanical, electrical, lighting, and FAS system 24 hours per day, 7 days a week. When required, the Contractor shall secure the appropriate LaRC functional approvals (Reference Appendix 3.5, *Functional Approval Requirements*) prior to executing the work. A TC is limited in scope to repairs and includes the first \$5,000 of cost. When the TC cost is expected to exceed the TC limit, the Contractor shall perform the remainder of the repair as either a Major Repair (Reference Section 3.1.9), or as an IDIQ Maintenance Project (Reference Section 3.4), as applicable.

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3.1.6.1 The Contractor shall create a TC record in the CMMS at the time it is received, and shall complete the TC record, including, but not limited to, the following information, with 7 calendar days after completion:

- a) Building and room number, location and equipment number, if applicable
- b) Date and time call received
- c) Description of work requested
- d) Classification (emergency, urgent, routine)
- e) Description of work performed
- f) Failure Code
- g) Date and time work began (Time required only for emergency TC)
- h) Date and time work was completed (Time required only for emergency TC)
- i) Brief description of material and parts used, including quantities and cost
- j) Actual labor hours expended by craft(s)

3.1.6.2 The Contractor shall classify each TC as defined below, and shall provide the requestor with the TC number and classification at the time the TC is received. In the event of a disagreement regarding the classification of the work, the caller shall be directed to the COTR for resolution.

3.1.6.2.1 Emergency TC include those calls that require immediate action to correct performance problems that affect the operation of research facilities (e.g. work stoppages), essential utilities, safety related equipment (e.g. exit/emergency lights, fire detection/prevention systems), prevent the performance of other work in the facility (e.g. major HVAC problems affecting more than 1 office space) or that pose the potential to damage facilities and their contents (e.g. water leaks, roof leaks). In performing emergency TC, the Contractor shall stabilize the situation, eliminate hazards to personnel or equipment, prevent loss of or damage to LaRC property, and restore essential services that have been disrupted. The Contractor shall be on the job site and working to stabilize the situation and restore essential services within 15 minutes after receipt of an emergency TC during normal business hours and within two (2) hours of receiving the TC after normal business hours. LAPG 1040.2, *NASA Langley Duty Officer's Handbook*, provides additional requirements related to TC received after normal business hours, including but not limited to, required notifications. The Contractor shall immediately notify the COTR if efforts to perform emergency TC will exceed the \$5,000 threshold for TC. In such cases, the COTR will issue appropriate technical direction; however, emergency work shall continue uninterrupted until the emergency situation is resolved.

3.1.6.2.2 Urgent TC includes situations which do not endanger personnel or threaten to damage property or the environment, but would affect the comfort and well being of personnel (e.g. minor HVAC problems affecting only 1 office space). The Contractor shall respond to the customer within two (2) hours of notification, and complete all repairs within five (5) days of the call unless otherwise directed by the CO.



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3.1.6.2.3 A TC that is not classified as emergency or urgent is considered routine and includes minor facility repairs that shall be completed within 14 calendar days of receipt, unless otherwise directed by the CO.

3.1.6.2.4 A TC for replacing burned out or blinking interior or exterior light bulbs shall be categorized as Lighting Calls in the CMMS and completed within 3 business days of receipt, unless it is a work stoppage or directed otherwise by the COTR.

### 3.1.7 General Facility Maintenance Requirements

Unless stated otherwise, work in this section is covered under maintenance (Reference Appendix 3.3, *LaRC PM Program*) and repairs (TC, Major Repairs, and Maintenance Projects) for all equipment and systems supporting research facilities, institutional facilities, and utilities at LaRC. The Contractor shall respond to work stoppages in research facilities as an emergency; resumption of research operations shall be the Contractor's highest priority. The Contractor shall negotiate with the CO to establish a repair schedule for each emergency repair to minimize the impact to research operations. The Contractor shall, when required by the CO, work extended shifts and weekends to mitigate the impact to affected research facilities.

3.1.7.1 The Contractor shall provide new or factory reconditioned parts and components in the execution maintenance work. All replacement units, components and materials/supplies shall be compatible with the existing equipment and shall be of equal or better quality than the original. The Contractor shall establish a receipt and inspection program to ensure that safety and/or mission-critical materials and products comply with the standard or specifications for which they were purchased. Mission-critical materials and products are those that could, in the event of failure, cause injury to personnel or jeopardize the operational mission to which it is applied. Safety critical materials and products are defined in LAPG 4520.1, *LaRC Requirements for Safety-Critical Product Testing*. Documentation generated during receipt and inspection activities shall include Contractor inspection and manufacture reports, test data, and material certification. The Contractor shall document and submit receipt and inspection records for safety and mission critical items to the OME Virtual Library with 5 business days of receipt (Reference Section 5.1.2).

3.1.7.2 The Contractor shall inspect and evaluate in-service and newly acquired equipment against criteria in Appendix 3.6, *Equipment Acceptance Criteria*.

3.1.7.3 The Contractor shall supply lubricating and hydraulic oils for the Center's equipment and systems as indicated in the CMMS. There shall be no substitution without CO approval. The contractor shall, for new and existing equipment that does not have lubrication type identified, determine the proper lubricant and enter the information in the CMMS.

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3.1.7.4 The Contractor shall, when disposing of equipment, comply with property disposal procedures required by NPG 4200.1, *NASA Equipment Management Manual*.

3.1.7.5 The Contractor shall, within 6 months of **contract implementation date**, develop and implement a critical spares program. Critical spare items are those parts and/or materials that are essential or critical to the operation of a facility and that may require long lead times. Some critical items are on hand at NASA LaRC facilities, but are stored in multiple locations and are not cataloged. Purchase of additional spare parts will be initiated with a Work Order. The critical spares inventory shall be documented in the OME Virtual Library. The program shall include but not be limited to the following:

- a) Existing items residing in facilities that are currently identified by facility personnel as critical spares
- b) Estimated cost and availability for each new item recommended
- c) Inventory control process addressing receipt, inspection, cataloging, storage, and retrieval

3.1.7.6 The Contractor shall coordinate all scheduled utility outages with the Facility Coordinator and Safety Head of the affected facilities. Utility outage requests shall be submitted at least three business days in advance and shall include dates, times, facility(s), and equipment/system(s) that will be affected. The Contractor shall complete Appendix 3.7, *Request for Electrical Power Outage Form*, for all electrical power outages.

3.1.7.7 The Contractor shall respond to unscheduled utility outages 24 hours per day, 7 days a week, and the Contractor's response shall be in compliance with the TC requirements in Section 3.1.6. During normal business hours, the Contractor shall notify the CO within one hour of an unscheduled outage. After normal business hours, the Contractor shall notify the Utility Manager by 9:00 a.m. of the next business day. The Contractor shall provide continuous support until service is restored. The Contractor shall post a written report to the OME Virtual Library within three business days after each occurrence that includes a summary of the event, action taken and probable cause for the outage.

3.1.7.8 The Contractor shall obtain a digging permit for all excavations greater than 6 inches deep in accordance with LAPG 1740.2, *Facility Safety Requirements*. Where excavations are made in performing work, the Contractor shall restore the area to its original condition.

3.1.7.9 The Contract shall initiate and maintain records in the CMMS (Reference Section 5.0, e.g. MAXIMO, INFOPC) to reflect all work performed on LaRC facilities, equipment and systems. Data maintained in the CMMS is Government owned and shall be retained by the Contracting Officer at the end of the Contract.

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3.1.7.10 Maintenance documentation includes all associated drawings, manufacturer's literature, brochures and pamphlets, maintenance and operator's manuals, parts lists, warranty information and other pertinent documentation not included in the Computerized Asset Management System. The Contractor shall collect and file all electronic and hard copy maintenance documentation as follows:

- a) Electronic documentation shall be placed in either the CMMS or the OME Virtual Library
- b) Hard copies of maintenance documentation for tunnels operated by the ROME contractor shall be located in the Facility Documentation Library (Reference Section 4.1.7)
- c) Hard copies of maintenance documentation for all facilities other than ROME operated tunnels shall be placed in the Facility History File located in Building 1199.
- d) The Contractor shall retain the complete record of each subcontract in Engineering Files (Reference 4.1.7.1) within 45 days of project completion and CO acceptance of the work. The record shall comprise a history of the each subcontract, including but not limited to, the subcontract, all original approvals (shop drawings, material samples, and tests), construction logs and photographs, vouchers, invoices, quality control documentation including Contractor's inspection records, dig permits, change orders, claims, warranties and certification and acceptance documents.

3.1.7.11 The Contractor shall perform precision cleaning, refurbishment, repair and maintenance and verification of parts, components, assemblies, subsystems, systems, or related equipment in accordance with LAPG 1740.5, *Procedures for Cleaning of Systems and Equipment for Oxygen Service* and Appendix 3.8, *Oxygen Cleaning Operations Procedure Plan*. This effort shall be performed at the site of the instruments or at either Building 1188 (Oxygen Cleaning Shop) or 1284B (Component Validation Facility), as required.

3.1.7.12 The Contractor shall test, certify, repair and perform maintenance on pressure gauges, relief valves, pressure sensors, piping and hoses, and similar components at NASA LaRC. Services include performing hydrostatic testing to (to 17,000 psig) and pressure testing of pressure containing components, component maintenance or modification, and the fabrication of hose assemblies. Work shall be performed in accordance with LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*, and Appendix 3.9, *Component Validation Operations Procedure Plan*. The Contractor shall document validation data in the CMMS. The Contractor shall maintain and recalibrate test equipment required for component validation to ensure conformance with applicable ASTM and ANSI codes and standards.

3.1.7.13 The Contractor shall perform rigging and hauling services at NASA LaRC and other local locations as required. Work involves rigging and hauling of equipment, structures, models, and other items at LaRC facilities and occasionally for off-site locations. Rigging work shall be performed in accordance with the LaRC Safety Manual

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and Appendix 3.10, *Rigging and Hauling Operations Procedure Plan*. Equipment used for lifting shall comply with NASA-ST-8719.9, *NASA Standard for Lifting Devices and Equipment*. When mobile crane services are required in the LaRC East Area (on Langley Air Force Base), the Contractor shall notify the Langley Air Force Base Civil Engineer at least three days in advance of the required lifting operations.

3.1.7.14 The Contractor shall provide periodic certification, inspection and testing, maintenance, and repairs to elevators, dumbwaiters and man lift systems. All inspection and testing shall be performed in accordance with applicable state and local regulations, in addition to sections of the National Fire Protection Association (NFPA), American Standards Institute, Inc. (ANSI) Safety Codes, current OSHA regulations, American Society of Mechanical Engineers (ASME) A17.1 and Appendix 3.11, *Crane and Elevator Operations Procedure Plan*. All inspections and tests shall be performed by qualified personnel and in the presence of a Government-provided certified inspector. The Contractor shall post the inspection report to OME Virtual Library within two days of completion of the inspection. The Contractor shall post (update) a certification form after the satisfactory completion of each elevator inspection and certification.

3.1.7.15 The Contractor shall perform inspection, testing certification, maintenance, repair, modification, and equipment replacement as required to support built-in cranes, hoists, slings and other lifting devices. Also included is inspection and load testing for mobile cranes, forklifts, and specialized research apparatus in accordance with either original manufacturer's or engineering specifications. The Government will furnish the test weights (Reference Exhibit E, *IAGP equipment*). All inspections and test shall be performed by or in the presence of a qualified crane mechanic leader, and in accordance with the NASA-STD-8719.9, *Standard for Lifting Devices and Equipment*, the LAPG 1740.2, *Facility Safety Requirements*, Appendix 3.11, *Crane and Elevator Operations Procedure Plan* and current OSHA regulations. The Contractor shall post (update) a certification form after the satisfactory completion of each crane inspection and certification.

3.1.7.16 The Contractor shall perform welding and brazing required for the maintenance and repair of facility mechanical, structural, pressure vessel and process systems. Welders shall be qualified and certified for the specific welding process in accordance with applicable American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section IX, American National Standards Institute (ANSI), and American Welding Society (AWS) D1.1 and D1.3 Standards. In addition, welding shall be performed only after meeting the following conditions:

- a) The Contractor shall submit the following documents for approval to the LaRC Standards Practice Engineer (SPE) for Welding Engineering before performing any welding at LaRC
  1. Weld Procedure Specification (WPS)
  2. Procedure Qualification Records (PQR)
  3. Welder Qualification Records (WQR)

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- b) Specific inspection and acceptance criteria for each welding project shall be in accordance with requirements established by the NASA SPE for Welding Engineering. Completed welding work shall be inspected by a welding inspector that is certified in accordance with American Society of Non-destructive Testing, ASNT CP-189, Level II
- c) The Contractor shall obtain a hot work permit (e.g. welding, burning) and provide a fire watch when performing all welding and hot work (Reference NASA-STD 8719.11, *Safety Standard for Fire Prevention*)

3.1.7.17 The Contractor shall perform maintenance and repair of lubrication systems and hydraulic systems that range from 5 to 10,000 psi. When repaired, lubrication and hydraulic systems shall be free flowing, in safe operating condition, and free of leaks and drips. The Contractor shall filter all hydraulic fluids to 3 microns absolute (captures all particulates larger than 3 microns) and all lubricating fluids to 6 microns before being introduced into the system. Configuration controlled documents associated with each research facility describe and provide schematic drawings of each lubrication and hydraulic system addressed in this section. All work shall be in accordance with LAPG 1710.12, *Potentially Hazardous Materials* and LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*.

3.1.7.18 The Contractor shall provide maintenance, repair, and/or overhaul of mechanical systems including machinery; centrifugal, rotary and reciprocating compressors; high pressure and vacuum valves; gear and piston-type vacuum and miscellaneous pumps; plan instrumentation; vacuum spheres and gas storage cylinders and tanks; electrical equipment and components; and various mechanical equipment as well as associated appurtenances necessary to generate and deliver various liquids and gases to their respective dispensing or distribution system or to evacuate and reclaim the gases and liquids from such systems. All work shall be in accordance with LAPG 1710.12, *Potentially Hazardous Materials* and LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*.

3.1.7.19 The Contractor shall perform maintenance, repair, fabricate and install pressure vessels and process piping and tubing of various materials including, but not limited to, carbon steel, stainless steel, monel, inconel, and aluminum, in accordance with the ASME Boiler and Pressure Vessel Code, ASME B31.1 and ASME B 31.3, and only as approved by the NASA SPE for Pressure Systems. Work shall be performed in accordance with LAPG 1710.12, *Potentially Hazardous Materials* and LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*. The Contractor shall ensure that:

- a) Work performed on pressure systems shall proceed only after the design has been approved and signed by the SPE for Pressure Systems
- b) Fabrication of new pressure vessels shall be by organizations that are holders of an ASME Certification of Authorization for the application of a "U" or "U2" code stamp, as appropriate. Modifications or repairs to existing code stamped pressure vessels shall be performed only by organizations that are holders of a National Board Certificate of Authorization for the use of an "R" stamp

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- c) Fabricators of welded piping systems shall be a holder of one of the following ASME or National Board stamps: "U", "U2", "N", "R", or "PP"
- d) Pressurized systems in wind tunnel models shall be in accordance with LAPG 1710.15, *Wind-Tunnel Model Systems Criteria*

3.1.7.20 The Contractor shall maintain and repair unique mechanical and electrical drive system components for drives from fractional horsepower to 135,000 horsepower. The Contractor shall perform all component, equipment and system maintenance and repair in accordance with checklists prepared for their respective component, equipment or system; LAPG 1710.6, *Electrical Safety*; and other applicable specifications.

3.1.7.21 The Contractor shall perform carpentry and masonry maintenance, repair, and minor construction services in accordance with the definitions, procedures, and applicable SPECSINTACT section (Reference Section 4.1.6).

3.1.7.22 The Contractor shall perform maintenance and repair of all electrical systems and equipment at LaRC, including electrical power distribution systems and facility electrical equipment. Included are service connections, distribution panels, connections, conduits, conductors, grounds, outlets, switches, receptacles, wiring circuit breakers, branch circuits, ground fault circuits, motors, transformers, and lighting. All electrical work shall be in accordance with LAPG 1710.6, *Electrical Safety* and Appendix 3.12, *Electrical High & Low Voltage Operations Procedure Plan*. All workmanship and materials shall conform to applicable codes, regulations and standards including, but not limited to, the National Fire Protection Association (NFPA), 70 National Electrical Code

3.1.7.23 The Contractor shall perform plumbing maintenance and repair for all piping systems at LaRC. All work shall be in compliance with American National Standards Institute A40.8-55, National Plumbing Code and applicable codes, regulations and standards. In addition, all plumbing work shall be performed in accordance with LAPG 1710.40, *Safety Regulations Covering Pressurized Systems*. Plumbing fixtures and components that cannot be repaired shall be replaced with fixtures that are in compliance with BOCA *Basic Plumbing Code 978*

3.1.7.24 The Contractor shall operate, maintain, and repair all heating, ventilating, air conditioning, and refrigeration (HVAC/R), and HVAC control systems, cooling towers, and associated mechanical equipment at LaRC, in accordance with applicable standards, Appendix 3.13, *HVAC Standards* and Appendix 3.14, *HVAC and Water Treatment Operations Procedure Plan*. The Contractor shall provide properly sized temporary air conditioning, during the normal cooling months (May to Oct.), whenever a facility A/C system is out of service for more than 1 business day. The Contractor shall annually submit to the CO the amount and location of Government R-12 Refrigerant inventory used (600 pounds in Building 1187).

3.1.7.25 The Contractor shall perform roofing and related facility work in accordance with the National Roofing Contractors Association (NRCA) Standards, and the

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definition, procedures, and applicable SPECINTACT sections (Reference Section 4.1.6). The Contractor shall accomplish temporary repairs under wet conditions as required to protect Government property and personnel. Durable permanent repairs shall be completed as soon as conditions allow.

3.1.7.26 The Contractor shall provide painting services on and within approximately 210 buildings and structures and approximately 80 trailers on-site at NASA LaRC in accordance with applicable SPECSINTACT sections (Reference Section 4.1.6). Surfaces to be painted include, but are not limited to wind tunnels, laboratories, test and research structures, storage spheres, pressure vessels, metal roofs and siding, piping, large motors, generators, pumps, compressors, and similar items. Painting applications include, but are not limited to corrosion control (Reference Appendix 3.15, *Corrosion Control Operations Procedure Plan*) and/or high performance coatings, architectural, preservation, spot, repair, and traffic signal marking. Paint shall be delivered to the job site in original containers bearing the manufacturer's name, brand designation, and instructions for application.

3.1.7.27 The Contractor shall provide maintenance, repair and programming services for the fire protection and life safety systems at LaRC. Systems and equipment to be serviced include, but are not limited to, fire and smoke detection/alarm and alarm monitoring systems; automatic sprinkler (wet, dry pipe, pre-action, and deluge system) and standpipe systems, including fire water distribution systems, pumps and fire hydrants; deluge systems; gaseous extinguishing systems; dry and wet chemical extinguishing systems, high expansion foam; fire and smoke containment systems; and oxygen depletion systems. All fire detection equipment shall be maintained and repaired in accordance with NFPA 72, the manufacturer's recommendations, Appendix 3.16, *Fire Protection System Operations Procedure Plan*, Appendix 3.18, *Fire Protection and Life Safety System Maintenance and Repair Standards* and NASA-STD-8719.11, *Safety Standard for Fire Prevention*. All fire suppression systems and equipment at the Center shall be maintained and repaired in accordance with NFPA 25 and other applicable NFPA codes/standards, the manufacturer's recommendations, NASA-STD-8719.11 and Appendix 3.18, *Fire Protection and Life Safety System Maintenance and Repair Standards* or unless otherwise specified by the LaRC Fire Chief. Procedures, check sheets and recording requirements shall be kept in the CMMS and in the Government owned software Compliance 25 (currently this software resides on the fire department server to which the Contractor will be given access). The Contractor shall report the reason for every fault or false alarm with any LaRC facility fire protection system to the COTR in writing within one business day after occurrence.

3.1.7.28 The Contractor shall perform temporary and permanent patching of sections of flexible and rigid pavement, pavement marking, the cutout of pavement for utility repairs, and shoring for utility repairs at NASA LaRC in accordance with Appendix 3.19, *Road and Other Surface Area Standards*. There are approximately 54,000 linear feet of Roads (asphalt, concrete, gravel), and 2,000,000 square feet of parking lots. The Contractor shall maintain signs (e.g. street, traffic, building signs) guardrails, gutters, curbs, ramps, sidewalks, pads, and wheel blocks.

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3.1.7.29 The Contractor shall provide all labor, supervision, tools, materials, equipment, transportation and management necessary for the removal of ice and snow, when directed by the Emergency Preparedness Officer (EPO) from roads, walkways, parking lots, handicap ramps, aircraft ramps, taxiways and other surfaced areas in accordance with LAPG 1046.1, *LaRC Emergency Plan*. Within 30 days of **contract implementation date**, the Contractor shall provide to the CO a Snow Removal Plan for the removal of snow and ice. The plan shall address the Contractor's equipment, consumables, and staffing to remove snow and ice from 70% of walking surfaces, parking lots, and handicap accesses and to plow, salt, and sand all internal LaRC roads within four hours after being directed by the LaRC EPO. The Contractor shall update the Snow Removal Plan each year by November 30<sup>th</sup>.

3.1.7.30 The LaRC storm drainage system consists of approximately 89,000 linear feet of pipe (2 to 60 inches diameter), 483 catch basins, and 153 manholes. The Contractor shall maintain and repair all subsurface storm drainage components and skimming basins. Open ditches are not covered by this contract.

3.1.7.31 The Contractor shall provide materials and services to perform water treatment of cooling tower and closed loop systems. Water treatment services include but are not limited to, development of a water treatment program for each system and testing and treatment of circulating water to prevent accumulation of scale, corrosion, biological growths, and other foreign materials. Upon CO approval, the Contractor shall continuously monitor the water treatment program to meet the treatment standards. The Contractor shall submit monthly (by the 5<sup>th</sup> business day) detailed records of the results of all inspection checks and chemical treatments to include: building number and system, date chemicals were applied, description of chemicals used, quantity of chemicals used per system to maintain standards, chemical level readings in system before and after adjustments, date of inspection check and adjustment, and monthly water usage (Appendix 3.21, *Cooling Tower Makeup Water Meter Monthly Report*). The water treatment program shall include:

- a) Circulating water treatment program for each cooling tower in accordance with Appendix 3.20, *Water Treatment Standards* and Appendix 3.14, *HAVC and Water Treatment Operations Procedure Plan*. The Contractor shall submit to the CO proposed chemical treatment procedures by the **contract implementation date** and shall not change the program without CO approval
- b) Perform water treatment for all closed-loop cooling systems in accordance with Appendix 3.20, *Water Treatment Standards* and Appendix 3.14, *HAVC and Water Treatment Operations Procedure Plan*. The Contractor shall maintain pH limits of 7.0 to 10.0, and molybdenum based product levels (presently MD407) of 100 to 150ppms. The Contractor shall submit to the CO proposed chemical treatment procedures on the **implementation date** of the contract, and shall not change the program without CO approval



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3.1.7.32 The Contractor shall perform the LaRC Duty Officer function to coordinate support services and resolve facility related problems 24 hours per day, 7 days a week, in accordance with LAPG 1040.2, *LaRC Duty Officer's Handbook*. During normal Center business hours, Duty Officer functions are limited to validating alarms, coordinating with Fire Department and Langley Air Force base personnel, and other related responsibilities. The Duty Officer shall be a certified Safety Operator (Reference LAPG 1710.10, *Safety Clearance Procedures* (Lockout/Tagout)) for electrical systems up to 600 volts, pressure systems up to 125 psi, and mechanical systems. During each work shift, the Duty Officer shall document and post all activities, contacts, and actions taken to aeroCOMPASS in a Duty Officer's logbook format.

3.1.7.33 The Contractor shall perform maintenance, repair and provide technical support for the LaRC Energy Management and Control System (EMCS), which includes the Utilities Control System (UCS) and the Energy Management System (EMS) 24 hours per day, 7 days a week (Reference Appendix 3.22, *EMCS Operations Procedure Plan* for locations and Appendix 3.23, *Electrical Meter Locations*). The EMCS functions to efficiently control HVAC, lighting, and other energy consuming equipment, and consists of host console computers with a manned interface for monitoring and controlling remote systems through an integrated network control system. The Contractor shall use the EMCS to provide energy conservation and management consistent with guidelines in NPG 8570.1, *Energy Efficiency and Water Conservation Technologies and Practices Section 6.8* and in accordance with Appendix 3.22, *EMCS Operations Procedure Plan*.

3.1.7.34 The Contractor shall monitor the electrical power provided to LaRC and ensure that the power consumption of large research facilities is within allocated limits. The contractor shall follow established priorities and guidelines (Appendix 3.24, *Power Dispatcher Duties and Load Shedding Guide*), and ensure LaRC does not exceed the electrical power consumption limit contracted with Dominion Virginia Power (thereby preventing sever financial penalties to the Government).

3.1.7.35 The Contractor shall provide equipment support to include the installation, repair, maintenance, assembly, modification, setup, operation, and testing of a variety of Government-owned Computer Numerical Control (CNC) and conventional machinery. This equipment includes, but is not limited to, the equipment listed in Appendix 3.32, *Fabrication Technology (FT) Computer Numerical Control (CNC) & Conventional Machinery Inventory*. The Contractor shall also provide annual calibration for the equipment listed in Appendix 3.33, *FT Computer Numerical Control (CNC) and Conventional Machinery and Equipment Requiring Calibration* in accordance with the calibration specifications listed in Appendix 3.34, *FT Calibration Specifications*.

### 3.1.8 Maintenance Operations Procedure Plan (OPP)

The Contractor shall develop and maintain OPP for the operations, maintenance and repair of the following LaRC systems:

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- a) Oxygen Cleaning (Reference Appendix 3.8)
- b) Component Validation (Reference Appendix 3.9)
- c) Rigging and Hauling (Reference Appendix 3.10)
- d) Cranes and Elevators (Reference Appendix 3.11)
- e) Electrical High and Low Voltage (Reference Appendix 3.12)
- f) HVAC and Water Treatment (Reference Appendix 3.14)
- g) Corrosion Control (Reference Appendix 3.15)
- h) Fire detection and Prevention Systems (Reference Appendix 3.16)
- i) EMCS (Reference Appendix 3.22)
- j) Industrial Instrumentation (Reference Appendix 3.27)

The Contractor shall incorporate into each OPP proven “best commercial practices”, technical processes and administrative procedures. Plans shall be submitted to the CO for approval within 90 days of **contract implementation date** and reviewed and updated annually there after. The Contractor shall post the OPP to the OME Virtual Library within 5 days of approval.

### 3.1.9 Major Repairs (MR)

The Contractor shall perform MR (defined as repairs or replacements “greater than the TC limit and less than \$50K”) on LaRC collateral systems and equipment (Reference NPG 8831.2D, *NASA Facilities Maintenance Management*). For repairs exceeding \$50K or major repairs on non-collateral equipment, refer to Section 3.4. The Contractor shall generate a work record in the CMMS for each MR before starting work. The work record shall include a cost/schedule estimate, concurrence from the Facility Coordinator, COTR and required functional approvals (Reference Appendix 3.5, *Functional Approval Requirements*). Documentation requirements for each major repair shall be in accordance with TC requirements (Reference SOW Section 3.1.6.1).

## 3.2 INSTRUMENT SERVICES

The Contractor shall repair, modify, assemble, calibrate, and maintain Inspection Measurement and Test Equipment (IM&TE) in accordance with the instrument manufacturers’ and LaRC specifications’ identified below. Of the approximately 80,000 devices, approximately 5,000 are classified as Category 1, (used daily and calibrated periodically), approximately 15,000 are classified as Category 2 (used infrequently and calibrated before use, unless a valid calibration date is indicated on the instrument) and approximately 60,000 devices that are maintained in reserve for use when required. Work includes, but is not limited to, instrumentation, metrology technical support, operation of the metrology information management system (INFO-PC), and logistics.

### **3.2.1 Instrumentation Calibration and Repair**

3.2.1.1 **The Contractor shall perform instrumentation calibration and repair of Inspection, Measuring, and Test Equipment (IM&TE).** The Contractor shall be compliant to ISO 17025, General Requirements for the Competence of Testing and Calibration Laboratories, with the exception to allow the use of a 4:1 turn down ratio instead of uncertainty analysis for all measurements, where applicable. Uncertainty analysis as described in ISO 17025 shall be performed for all measurements where the 4:1 ratio cannot be achieved. All calibrations shall adhere to the ISO 17025 standard and the contractor shall follow additional guidelines applicable to LaRC as defined in NPD 8730.1, *Metrology and Calibration*; LMS-CP-0506, *Selection Use and Control of Inspection, Measuring and Test Equipment (IM&TE)* and LMS-CP-0510, *Procurement of Inspection, Measuring and Test Equipment (IM&TE)*. Calibration recall intervals shall be established based on Department of Defense documents (e.g. Air Force Technical Order 33K-1-100, Technical Manual TMDE Calibration Interval Technical Order and Work Unit Code Reference Guide, and the Army Metrology Procedures Index TB 43-180), the manufacturer's recommendations, the Metrology Officer's recommendations, and the customer's requirements, in that order of preference. The Contractor shall perform quarterly internal auditing, with the results (quality records) provided to the CO, to assure that configuration management processes and procedures are being followed. Audit results shall be posted to the OME Virtual Library.

3.2.1.2 The Contractor shall perform functions as outlined in LMS-CP-0506 to ensure compliance with the LaRC instrument recall program. (There are approximately 5,000 instruments in the LaRC instrument recall system, all of which are classified as Category 1 devices). The Contractor shall notify customers when equipment is due for calibration (the INFO-PC System will track the due dates and generate the customer notices). The Contractor shall input data into the calibration recall data system, and provide email updates to users and Metrology Representatives on all instruments due for calibration and their status. The Contractor shall provide email notification to users and metrology representatives on all Category 1 items found to be out-of-tolerance.

3.2.1.3 The Contractor shall maintain calibration procedures on-line and hard copy maintenance manuals at the Contractor's work area, and shall provide LaRC with an electronic index of this information in the OME Virtual Library, within 6 months of **contract implementation date**. The Contractor shall ensure the electronic index is updated when procedures are changed or added. These procedures and manuals shall be the property of the Government, and shall be delivered to the CO at the conclusion of contract.

3.2.1.4 The Contractor shall document, in the INFO-PC system, all Instrument Work Orders, (IWO) initiated by written or oral user requests. IWO is used for instrumentation calibration and repair, data systems maintenance, and FAS maintenance. IWO initiation shall occur when the item arrives at the contractor's facility. For on-site service work, IWO initiation shall occur when a service call is received. The Contractor shall respond to the priority requested by the customer based on the required completion

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date, which typically ranges from 1 to 30 days. The information for all IWO shall include, but not be limited to: equipment identification, customer name, initiation date, priority, service requested, required completion date, and job order number

3.2.1.5 Every instrument serviced that has a unique bar-coded number assigned, either an Equipment Control Number (ECN) or a Metrology Control Number (MCN), shall have a record maintained in INFO-PC documenting all repairs and calibrations including labor hours expended, material costs, parts replacement tracking, and other pertinent information. For instrumentation service, the Contractor, shall:

- a) Notify the instrument user & metrology representative if it is discovered that out-of-tolerance standards were used to perform IM&TE calibration
- b) Report and document any out-of-tolerance condition on Category 2 IM&TE on the IWO, when requested by the user
- c) Record the before and after adjustment readings and provide the user with the final calibration data whenever a Category 1 instrument requires recalibration
- d) Notify the COTR when repairs are estimated to exceed forty percent (40%) of the replacement cost of an instrument for a decision on whether the unit should be repaired or replaced
- e) Prepare and affix the appropriate NASA/LaRC calibration label to each instrument serviced. Where relevant, seals shall be affixed on calibrated instruments so as to inhibit or detect unauthorized entry into the device
- f) Enter all customer completed feedback ratings and comments into a summary report and forward to the COTR. The contractor shall immediately investigate any "unsatisfactory" evaluations and review corrective action with the COTR

3.2.1.6 The Contractor shall arrange for the instrument manufacturer or authorized representative to provide repair of defective instrumentation that is currently under warranty or that fails initial inspection and acceptance tests.

3.2.1.7 The Contractor shall perform fabrication services for racking and stacking equipment, design and fabrication of unique test devices, setups, fixtures, accessories, and equipment, including software development for automated test calibration stands.

### 3.2.2 On-site Service and Emergency Repair

**The Contractor shall provide on-site service and emergency repair if requested by the customer. Timeliness requirements for routine repairs shall be performed in accordance SOW Section 3.2.1.4. Timeliness requirements for emergency repairs shall be performed in accordance with SOW Section 3.1.6.2.1. Work includes, but is not limited to:**

- a) Magnetic tape and chart recorders
- b) Electronically Scanned Pressure (ESP) systems
- c) Neff DAS and DAS instrumentation

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- d) Ruska and sensor pressure systems
- e) Other instrumentation associated with aerospace testing

3.2.2.1 The Contractor shall schedule and utilize mobile calibration carts (Reference Exhibit E, *IAGP Equipment*) to maximize service to research facilities and minimize interruptions of normal operations. The Contractor shall document in the IWO all work performed on-site and enter it into the INFO-PC system.

### 3.2.3 Metrology Technical Services

The Contractor shall provide Metrology Technical services in support of maintenance, calibration, and repair of IM&TE. These services contribute to the integrity of measurements, and involve the design of tests and methods by which the measurement and comparisons are made, and analysis of the tests result. Metrology technical services include:

- a) Consultation regarding measurement practices, instrument application and providing specialized calibration capabilities as required
- b) Oversight and management of the development, modification, and documentation of required calibration procedures including software programs
- c) Management of the Contractor's participation in the NASA Measurement Assurance Programs (MAP) as outlined in Appendix 3.25, *NASA Metrology and Calibration Technical Program Plan* (323-27). MAP is a technique by which the user measures, using well-defined procedures, an artifact (item or instruments with an associated metrology calibration history) sent by the MAP's "pivot" lab. After comparing the artifact to local laboratory standards, the participant assigns it a characteristic value. The pivot laboratory then compares the participants' results to the pivot laboratory's own measurement results for that artifact. The participating laboratory receives a report stating the systematic and random error components of its measurement process.
- d) The Contractor shall participate (travel may be required) in the annual meetings of the Metrology and Calibration Working Group (MCWG). This group is composed of representatives of all calibration Contractors at NASA centers. (Reference NPD 8730.1, *Metrology and Calibration*).

### 3.2.4 Metrology Information Management System (TRIMS/INFO-PC)

The Contractor shall use the TRIMS system to track, report, and store service history and metrology related data for work performed under the contract. TRIMS shall provide the COTR with oversight, tracking and update/change authorization to all information entered into the INFO-PC database for engineering work, monitoring daily incoming and outgoing IWO activity and updating ECN/MCN records information. Services shall include, but are not limited to:

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- a) The Contractor shall perform updates from NASA Equipment Management System (NEMS) and downloads to the EMIT WEB database to ensure systems congruency with the INFO-PC and TRIMS
- b) The Contractor shall operate, update records, and provide reports to the COTR as required by the Instrument Service Tracking Program (ISTP). The ISTP is a dBaseIV application residing on a networked PC in Building 1230. At the conclusion of each month, the INFO-PC system creates a file containing the records for all IWO completed during that month. The Contractor shall provide file transfer from INFO-PC to the Instrument Service Tracking Program (ISTP). The downloaded file is then used by the ISTP to calculate quality and timeliness for all Instrument Work Orders and to generate monthly and semi-annual reports for the COTR (Reference Appendix 3.26 *Metrology Program Evaluation Plan*). The reports generated by this application are used by the COTR to assist in evaluating the Contractor performance.
- c) The Contractor shall review, update, and maintain IM&TE records for all data provided by Metrology Representatives in support of the Center Metrology Program as defined in LMS-CP-0506 and LMS-CP-0510.

### 3.2.5 IM&TE Logistics

The Contractor shall provide a pickup and delivery service for all standards and instruments requiring repair or calibration. This service shall be to and from NASA facilities; other local support services Contractor facilities, and occasionally remote facilities such as National Institute of Standards and Technology (NIST). The Contractor shall perform periodic pickup and delivery from facilities, as required. When notified, the Contractor shall use a receipt method to identify instruments submitted for service and as subsequent evidence that the item(s) have been returned after service and return delivery has been completed. The Contractor may use the existing receipt method (LaRC form 145) or may implement its own with COTR approval. The Contractor shall initiate task tracking and documentation, and perform the following:

- a) Receive and visually inspect each instrument, and shall initiate an IWO for each instrument submitted for service. The Contractor shall use the INFO-PC system to document all IWO for COTR review
- b) Provide, prepare, and affix an ECN/MCN to all instruments received for service and update INFO-PC records. Generate a return shipping tag (NASA Form 162) and attach it to the equipment to be dispatched to the work area for service
- c) IWO shall be used to authorize acceptance testing, adjustment, calibration, fabrication, repair or environmental testing of an item(s) of test equipment
- d) Provide an e-mail notification informing the customer of the work order details and tracking information for all IWO submitted for service
- e) Track and monitor all equipment returned for warranty, acceptance, rejects, repair parts, and/or factory/vendor repairs/calibration until it is returned to the Contractor's facility

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- f) Update INFO-PC Equipment Characteristics, de-control and retag ECN/MCN equipment, maintain electronic storage of scanned shipping tags, GFE data, and other IWO related documents

### 3.2.6 IM&TE Government Furnished Equipment (GFE) Maintenance and Repair

The Government will furnish the special test equipment listed in Exhibit D, to be used in the repair and calibration of instrumentation by the contractor. The Contractor shall develop and follow a GFE maintenance program, which maintains the GFE in accordance with FAR clause 52.245-5, Government Property. The Contractor shall submit a GFE maintenance program for CO approval within 30 days of **contract implementation date** and update annually. The Contractor shall document in the Metrology Information Management System (TRIMS) all maintenance work performed on IM&TE GFE.

### 3.2.7 Industrial Instrumentation

The Contractor shall perform maintenance, repair, testing and calibration of industrial instrumentation equipment and shall tag the instrumentation with a verification sticker to indicate when the work was performed and next due date. Work shall be performed in accordance with industry standards, applicable specifications, and Appendix 3.27, *Industrial Instrumentation Operations Procedure Plan*. Equipment includes, but is not limited to, industrial controls, recorders, digital indicators, measuring systems, and industrial pressure, temperature, and level transmitters. Building 1188 (Oxygen Cleaning Shop) will be made available for the Contractor's use.

## 3.3 RESEARCH DATA & FACILITY AUTOMATION SYSTEMS SERVICES

The Contractor shall provide on-site services for Data Acquisition Systems (DAS) maintenance, DAS configuration management, DAS systems administration, DAS documentation, and Facility Automation System (FAS) maintenance and repair.

### 3.3.1 Data Acquisition Systems Maintenance and Repair

The Contractor shall provide on-site hardware and software maintenance and repair of approximately 250 computer systems used for scientific and research data acquisition and data reduction applications. The inventory of DAS and associated equipment to be maintained is listed in Appendix 3.28, *Data Acquisition Systems Inventory*. The contractor shall perform all required maintenance including hardware/software diagnosis and repairs, and hardware/software upgrades to current revision levels, when required. The Contractor shall repair the hardware on-site, when practical, to minimize system

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downtime. The Contractor shall maintain the data acquisition systems currently deployed in the research facilities as well as the networked control systems; data reduction systems, real-time display systems, and file servers for archiving research data. The Contractor shall also maintain custom hardware that has been designed to handle digital input/output interfaces to instruments such as Ruskas, Mensors, and digital control panels.

### 3.3.1.1 Data Systems Configuration Management

The Contractor shall develop and maintain documented procedures for identifying, maintaining, controlling, backing up, restoring, and disposing of Configuration Items (CI). CI includes hardware, software, documentation, and drawings. The Contractor shall comply with all applicable LMS Procedures for configuration management (Reference LMS-CP-5529, *Software Configuration Management Planning for Low, High, and Critical Control Software*, LMS-CP-5528, *Software Planning Development, Acquisition, Maintenance and Operations* and Appendix 3.29, *Configuration Management Plan for DAIMB DAS*). The Contractor shall perform configuration management of approximately 50 research facility data acquisition and support systems (Reference Appendix 3.28, *Data Acquisition Systems Inventory*).

3.3.1.1.1 The Contractor shall initially use the existing configuration management (CM) and quality control process (currently using the tool CMSynergy) until the process is integrated with the overall enterprise architecture (Reference Section 5.2). The Contractor's configuration management process shall ensure that access to CI is controlled and that all CI changes/modifications, especially those used in similar Data Acquisition Systems (DAS), are universally correct, reusable, and at the same revision level. The Contractor's CM process shall provide that all changes/modifications to CI are processed in compliance with LMS-CP-5528 and LMS -CP-5529. Data records from any subcontractor involved in implementing the CM process shall be considered CI accountable to the Contractor. The Contractor shall, within 90 days of **contract implementation date**, review, update, and submit to the CO for approval a Configuration Management Plan for DAIMB DAS (Reference Appendix 3.29, *Configuration Management Plan for DAIMB DAS*).

3.3.1.1.2 The Contractor shall maintain the master configuration controlled data (i.e., the controlled source) in a secure facility (protected against fire, water, and other physical hazards) along with data records of all hardware and software revisions/modifications and traceable histories back to Government official work requests. All CM records shall be organized, and maintained in such a way that they are readily retrievable. The Contractor's configuration and quality control process shall ensure protection/backup from catastrophic failure with no more than 4 hours down time after all hardware has been successfully restored.

3.3.1.1.3 The Contractor shall perform quarterly auditing, with the results (quality records) provided to the CO, to assure that configuration management processes and



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procedures are being followed. The quality records shall be made available to the CO for evaluation upon request.

### 3.3.2 Data Acquisition Systems Administration

The Contractor shall provide DAS administration support services including, but not limited to, operating system software maintenance, technical support and consulting, performance measurements and tuning, systems integration, and access control associated with all supported and developed system(s) software.

3.3.2.1 The Contractor shall provide system administration for approximately 250 research data acquisition and support systems (Reference Appendix 3.28, *Data Acquisition Systems Inventory*) to include, but not limited to, the following requirements:

- a) Perform all required planning, associated training, and testing of operating system software releases prior to implementation
- b) Diagnose operating system software failures; formulate and execute bypass procedures; communicate diagnostic findings to the appropriate vendor; receive, test, and apply fixes; and record the changes in the configuration management system
- c) Formulate, test, and apply fixes for all in-house developed and maintained software
- d) Document and track operating system software failures and impacts in a problem reporting system
- e) Provide technical support, consulting, and coordination to ensure orderly system implementation, integration, and operation of operating system software
- f) Conduct performance analyses and tuning on each of the operating system software components, and implement changes to meet performance requirement
- g) Provide updates of the current licensed and installed system software for all applicable systems. These updates shall also include corrective action and enhancements to system software
- h) Acquire and maintain reference documentation and/or arrange for reference services appropriate to accomplishing the operating system software maintenance function
- i) Implement all configuration management and security control associated with or affected by operating system software maintenance functions. Contractor shall provide an IT security plan for each DAS in accordance with NPG 2810.1, Security of Information Technology
- j) Administer user accounts and provide password services as required. The Contractor shall collect, analyze, and report relevant information regarding the management of system access to the CO

### 3.3.3 Data Acquisition Systems Documentation

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The Contractor shall provide to the CO complete and formal data systems documentation (e.g. user guides, technical design manuals). All documentation shall be provided in accordance with *NASA Software/Hardware Documentation Standards* (<http://satc.gsfc.nasa.gov/assure/docstd.html>) and shall be concise, complete and easy to use in the maintenance and operation of research data systems and test procedures. The Contractor shall establish and maintain documented procedures to control all documents and data that relate to the requirements of the NASA standards including to the extent applicable, documents of external origin such as standards and NASA drawings.

3.3.3.1 The Contractor shall maintain electronic documentation records (e.g. requirements change request history, work breakdown structure and costs, approval dates) associated with past or current work requests. The Contractor shall establish and maintain documented procedures in acceptance test plans to document, control and verify that the Contractor's products and deliverables meet the specified work requirements. Documents and data shall be in the type of media specified in Delivery Orders. The documents and data shall be reviewed and approved for adequacy by the project manager issuing the delivery order.

3.3.3.2 The Contractor shall establish and make readily available a master list or equivalent document control procedures identifying the current revision status of documents (to preclude the use of invalid and/or obsolete documentation). The Contractor's documentation control process shall ensure that:

- a) The pertinent issues of appropriate documents are available at all locations where operations essential to the effective functioning of the quality system are performed
- b) Invalid and/or obsolete documents are promptly removed from all points of issue or use, or otherwise assured against unintended use
- c) Any obsolete documents retained for legal and/or knowledge-preservation purposes are suitably identified
- d) Changes to documents and data shall be reviewed and approved by the same functions/organizations that issued the original delivery order or that performed the original review and approval, unless specifically designated otherwise. The Contractor shall provide the designated functions/organizations pertinent background information upon which to base their review and approval. Where practicable, the nature of the change shall be identified in the document or the appropriate attachments
- e) The Contractor shall establish, maintain, and apply procedures for the identification, verification, configuration management, storage, and quick access to hardware and software documentation required for the operation and maintenance of designated facility data acquisition and facility instrumentation systems on site. Where appropriate the Contractor shall establish and maintain documented procedures for identifying the product by suitable means from quality acceptance sign-offs for software/hardware verification and validation during all stages of production, delivery, and installation.

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### 3.3.4 Facility Automation Systems (FAS) Maintenance and Repair

The Contractor shall provide on-site maintenance of facility automation and control systems at NASA LaRC (Reference Appendix 3.30, *FAS Equipment Inventory*). Maintenance includes troubleshooting of problems and performing corrective changes to existing closed-loop control and automated interlock systems. Maintenance shall include all processors and microprocessors, PLC based systems, servo controllers, control panels, safety interlocks, electromechanical interfaces, instrumentation, and interfaces to the data systems. The Contractor shall work closely with each Facility Safety Head to ensure that system safety requirements are satisfied. The Contractor shall recommend, develop, and implement improvements to the facilities' control systems to enhance the operating performance, reliability, efficiency, and test capabilities. The Contractor shall document and store hardware and software in the Facility Configuration Management On-Line (FCMOL). See Section 4.2.3.1.1.2 for FAS configuration control requirements.

### 3.4 MAINTENANCE PROJECTS

The Contracting Officer (CO) will issue Work Orders (WO) or Task Orders (TO) for maintenance projects. The work includes, but is not limited to, repairs that exceed TC scope, **repairs that exceed major repair scope**, new or customer funded work, construction projects, and IM&TE, DAS, and FAS support. The Contractor shall create a record in the appropriate OME IT Business System at the time work is received, and shall complete the record within 14 calendar days after work completion. The Contractor shall maintain a hard copy contract file onsite containing the information above, for each active IDIQ task by building. The Contractor shall maintain files for each completed task separate from active tasks.

## 4.0 ENGINEERING

Engineering work consists of a wide variety of engineering services and projects, including traditional engineering designs, as well as other engineering related products, such as fabrication of research equipment, implementation of the construction of facilities program, development of instrumentation and data acquisition systems, and operation of facility documentation libraries.

### 4.0.1 Types of Engineering Work

The Contractor shall perform the following types of engineering work:

- a) General Engineering Services (SOW 4.1): Engineering-related work, which supports the day-to-day operations of the Center. On-demand engineering services are initiated through Service Requests (SR)
- b) Engineering Projects (SOW 4.2): Engineering-related work needed to complete stand-alone designs or construction and development projects. Engineering projects are initiated through individual Work Orders (WO) or Task Orders (TO)

### 4.0.2 Goals and Objectives

The Contractor shall achieve the following goals and objectives in the performance of the engineering services and projects:

- a) Improve engineering responsiveness to research operations. Provide timely and effective response to tactical engineering requests. Tactical engineering is defined in 4.1.1
- b) Improve engineering work quality. Provide accurate and complete documents
- c) Bring order to the disparate/overlapping documentation management systems. Ensure consistent use of the facility configuration management system (FCMOL) across OME & IT and verify all critical documents are up-to-date
- d) Utilize improved technologies to complete engineering work. Make all submittals electronically to the OME Virtual Library and convert existing hard copy documentation to electronic format. Promote the utilization of improved technologies, including: Geographic Information System (GIS), electronic access to documentation, and standard OME & IT software products
- e) Improve the quality, timeliness, and cost effectiveness of engineering projects. Complete all engineering projects in accordance with the cost, schedule and performance objectives of the individual project management plans

### 4.0.3 Transition Plan

Transition guidance for engineering is given in Appendix 1.5, *OME Transition Management Plan*.

#### **4.1 GENERAL ENGINEERING SERVICES**

General Engineering services include the following recurring activities:

- a) Tactical Engineering Services
- b) Facilities Configuration Management Services
- c) Pressure System Recertification Services
- d) Surveying/Underground Utilities Services
- e) Drawing File Services
- f) Specification Services
- g) Library Services
- h) Project Reporting Services

##### **4.1.1 Tactical Engineering Services**

The Contractor shall provide engineering services to support facility maintenance and research operations at LaRC. This work includes on-site field consultation, analyses, preparation of design modifications, and field verification of drawings. This work may involve troubleshooting of mechanical equipment, controls hardware and software; retuning of mechanical, fluid, and electrical control systems; or resolving other engineering problems. The focus of this effort is for small, quick response type, sustaining engineering problems. The focus of this effort is for small, quick response type, sustaining engineering activities. The size of tactical engineering projects would normally fall within the Trouble Call (TC) limits defined in Section 3.1.6. These services will be initiated with a TC (if the request is associated with a facility performance problem or repair) or a SR (for non-repair related engineering services). If the size of the job exceeds TC limit, the Contractor shall initiate an Indefinite Delivery Indefinite Quantity (IDIQ) Work Order (WO).

##### **4.1.1.1 Field Consultation**

The goals of field consultation services are to minimize unscheduled facility downtime and provide effective and safe solutions to key facility maintenance and operations personnel. For field consultation issued through TC, the Contractor shall respond in accordance with the TC provisions (Reference Section 3.1.6). All other service requests shall be completed within the timeframes negotiated with the requestor.

##### **4.1.1.2 Analyses**

The Contractor shall complete verification analyses in support of repair functions related to maintenance activities or operations. The analyses shall be comprehensive enough

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to adequately demonstrate the acceptable working parameters of the components, systems, or equipment. The Contractor shall also perform analyses for the purposes of validation and/or verification of facilities and collateral equipment. Should the analysis indicate that the system, component, or facility is deficient, the Contractor shall submit proposal to the COTR to address the problem. The Contractor shall also develop plans for replacing equipment with high operating or maintenance costs and submit these plans to the CO for approval. All analysis documentation shall be submitted and filed in the OME Virtual Library (Reference Section 5.1.2).

### 4.1.1.3 Design Modifications

The Contractor shall prepare and submit all design modifications related to tactical engineering, including updating drawings and all other facility records. Work shall be accomplished in accordance with the standards and guidelines given in Section 4.2.4.3.1, including obtaining all necessary drawing approvals per Section 4.2.4.3.1.11. The Contractor shall field verify all updated drawings. The Contractor shall update the CMMS to reflect any changes to the current equipment records. If changes to drawings in the Facility Configuration Management System (FCMOL) are required, the Contractor shall redline the drawings and submit a Change Notification Sheets (CNS) in accordance with the CM procedures identified in Section 4.1.2.2. The Contractor shall file all other documentation in the OME Virtual Library (Reference Section 5.1.2).

### 4.1.1.4 Field Verification of Drawings

The Contractor shall prepare and submit a plan, including a detailed milestone schedule, to complete field verification of all drawings in the Facility Configuration Management (FCM) system that are Configuration Controlled Documents (CCD) (approximately 3000 drawings) within the first five years of the contract. Once this Field Verification Plan is approved, the Contractor shall verify the accuracy of drawings in the field in accordance with this plan. If discrepancies are found, the Contractor shall redline the drawings and submit a CNS in accordance with the CM procedures identified in Section 4.1.2.2. The Contractor shall concentrate initially on the wind tunnels that are being operated under this contract in the following order: NTF, 8' HTT, UPWT, 14x22, and TDT. The Contractor shall also field verify drawings for any facility modification as these projects are completed. The Field Verification Plan shall be updated and re-submitted annually for approval by the CO.

## 4.1.2 Facilities Configuration Management (FCM) Services

### 4.1.2.1 FCM General Requirements

The Contractor shall provide FCM services in accordance with the processes described in LMS-CP-4710, *Configuration Management for Facilities*, and LMS-CP-4890, *Construction and Change Assurance for High Risk Facilities*, including.

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- a) Processing of Change Notification Sheets (CNS) for facilities in the NASA LaRC High-Risk Configuration Management Program (HRCMP), as defined in Figure 1-1 of LAPG 1740.4, *Facility System Safety Analysis and Configuration Management*
- b) Processing of Changes in Laboratory Equipment/ Procedures (CLEP) for facilities in the NASA LaRC Laboratory Risk Evaluation Program (LREP), as defined LAPG 1740.4, *Facility System Safety Analysis and Configuration Management*
- c) Participating in the Annual Safety and Configuration Management Meetings for each of the facilities in the HRCMP and the LREP
- d) Processing of Asbestos Configuration Management Program (ACMP) Change Sheets
- e) Scheduling and participating in operational procedure demonstrations for each of the facilities in the HRCMP and processing document changes
- f) Processing of Pressure System Documents (PSD) per Section 4.1.3.1

### 4.1.2.2 Facilities Configuration management On-Line (FCMOL) System

The Contractor shall use the Facilities Configuration Management On-Line (FCMOL) system, described in Appendix 4.1, Overview and Description of FCMOL, and Appendix 5.1, OME IT Business Systems, to access the FCM data and to initiate changes. LAPG 1740.4, *Facility Systems Safety Analysis and Configuration Management*, describes each of the configuration management activities and can be used to obtain additional information about the processes. The Contractor shall document all system changes via the CNS process for safety evaluation, review, and approval. Upon approval by the CO and implementation of system changes, the Contractor shall perform the following functions:

- a) Review documentation associated with the approved facility changes and ensure that all affected configuration-controlled documentation is identified and redlined. This includes but is not limited to the Safety Analysis Reports (SAR), Standard Operating Procedures (SOPs), Emergency and/or Administrative Procedures, Checklists, and Drawings
- b) Make the necessary changes to the documentation under configuration control in FCMOL. The Contractor shall interface with the NASA Safety and Facility Assurance Office to implement configuration-controlled documentation changes required by SFAO, assisted by the independent Safety office contractor. This work includes but is not limited to the following updates:
  1. Checklists, SOPs, SAR, Pressure System Documents (PSD), ACMP and other applicable documents
  2. Hard copy and AUTOCAD drawings. Ensure that requisite drawings have been field verified
  3. Raster images using a FORMTEK system
  4. Pressure System Database of components for pressure systems

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- c) Obtain Project Management Engineer (PME), Facility Coordinator, Facility Safety Head, LaRC Safety Manager, and other approval signatures on the updated working master documents, per LMS-OP-5686, *Facility Systems Project Document Control*
- d) Distribute working master copies of the documents to the facilities. The Facility Safety Head will determine the point of distribution and the number of copies to be distributed by the Contractor in each facility
- e) Update FCMOL system to reflect the document changes required by the CNS, close the CNS, add the new or revised documentation into the FCMOL system, and move obsolete or outdated documents to the historical archive
- f) Return completed sets of the updated documentation to Engineering Drawing Files for microfilming and designate outdated documents as obsolete or superceded

### 4.1.2.3 Change Notification Sheet Processing

The CNS process tracks changes to facilities in the HRCMP. The Contractor shall process CNS forms in accordance with LMS-CP-4890, *Construction and Change Assurance for High Risk Facilities*. The CNS process shall also be used to track changes to the Pressure Systems Configuration Management (PSCM) database.

### 4.1.2.4 Change in Laboratory Risk Evaluation Program Processing

The Change in Laboratory Equipment/Procedures (CLEP) process tracks changes to facilities and apparatus in the LREP. The Contractor shall process and submit CLEP forms in accordance with LAPG 1740.4, *Facility Systems Safety Analysis and Configuration Management*.

### 4.1.2.5 Participating in Annual Safety and Configuration Management Meetings

For each of the facilities in the HRCMP and the LREP, the Contractor shall participate in the Safety and Facility Assurance Office (SFAO) Annual Safety and Configuration Management Meetings with personnel representing the research community, operations, and Facility Systems Engineering. The Contractor shall address:

- a) Status of any action items assigned to the Contractor at the last Annual Safety and Configuration Management meeting
- b) Risk assessment status
- c) Any problem areas with regard to configuration management
- d) Any known facility plans
- e) Status of any outstanding CNS



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### 4.1.2.6 Asbestos Configuration Management Program (ACMP) Change Sheet Processing

Information on facilities with asbestos and related documents has been placed in FCMOL to assist in planning facility renovations or modifications, which may potentially disturb this material. The Contractor shall generate and submit an ACMP Change Sheet any time work is planned in a facility with asbestos or sampling is performed which identifies new areas of asbestos. The Contractor shall:

- a) Generate and process ACMP Change Sheets in FCMOL System
- b) Update the appropriate facility ACMP Plan to note area of removal of asbestos or the newly identified asbestos

### 4.1.2.7 Scheduling Operational Procedure Demonstrations and Processing Documentation Changes

The Contractor shall conduct annual standard operating procedure demonstrations in each of the high-risk facilities as defined in 4.1.2.1 a). The purpose of the operating procedure demonstrations is to ensure that facilities are maintaining their configuration-controlled documentation to match the physical state of their facilities and ensure that operators are familiar with and using the procedures. The Contractor shall:

- a) Schedule the procedure demonstrations in each of the high risk facilities in the HRCMP with the operation managers and/or facility managers and ensure the demonstrations are performed at a time that will not adversely impact research within the facilities but when facility personnel can be available to support the demonstration
- b) Conduct a "live demonstration" of facility operations or a "walk through" or "dry-run" if live demonstration is not possible for facilities for which the Contractor has operational responsibilities and red line operating procedures as required
- c) Participate in the "live demonstration" of facility operations or a "walk through" or "dry-run" if live demonstration is not possible for facilities for which the Contractor does not have operational responsibilities and red line operating procedures as required
- d) Initiate any required CNS to update applicable procedures upon completion of the demonstration
- e) When procedure demonstrations are completed, prepare, maintain, submit, and place records of the demonstration in the OME Virtual Library

### 4.1.3 Pressure System Recertification Services

The Contractor shall perform recertification services in accordance with the guidelines and definition outlined in NASA Procedure and Guideline NPG 1700.6A, *Guide for In-Service Inspection of Ground Based Pressure Vessels and Systems* and LAPG 1710.42, *Safety Program for the Maintenance of Ground-based Pressure Vessels and*

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Pressure Systems (See Appendix 4.2, *List of Pressure Systems in LaRC's Recertification Program*). The Contractor shall maintain and update all pressure systems documentation using the CNS procedures identified in 4.1.2.2.

The Contractor shall submit a milestone schedule in sufficient detail to allow monitoring of the progress of the recertification program. The schedule shall cover the entire contract performance period, including optional years. The schedules shall be in Microsoft Project format. Work shall be completed in accordance with LAPG 1710.42, *Safety Program for the Maintenance of Ground-based Pressure Vessels and Pressure Systems*, and as specified below.

### 4.1.3.1 Phase I – Evaluation

In performing the Phase I work on high-pressure systems, the Contractor shall:

- a) Develop unique component identification and weld location isometric drawings/sketches. Utilize FCMOL for documenting all components and welds. For more information on FCMOL, see Appendix 5.1, OME IT Business Systems
- b) Analyze and maintain documentation regarding the code compliance of the high-pressure system components. The Contractor shall perform fatigue and fracture mechanics analyses to assess component integrity, as required by the code
- c) Perform non-destructive evaluation (NDE) and maintain NDE documentation in FCMOL, of all pressure-retaining welds and all high stress areas of the systems identified in the analyses
- d) Generate and submit a Pressure Systems Document (PSD) for each system recertified and post to FCMOL

### 4.1.3.2 Phase II – Additional NDE and Systems Repairs

In performing the Phase II work on high-pressure systems, the Contractor shall:

- a) Perform additional NDE and system repairs within the specified baseline funding limits and in accordance with the requirements of the national consensus codes (for code identification, see LAPG 1710.42, *Safety Program for the Maintenance of Ground-based Pressure Vessels and Pressure Systems*)
- b) Perform additional NDE and system repairs under the provisions for a TC (Section 3.1.6), in the event that Phase I activities reveal the need for emergency repairs. For each emergency repair, develop a repair plan, including technical scope and cost estimate, submit and obtain approval from the CO before proceeding
- c) If not covered in a) or b) above, prepare an IDIQ proposal. Develop engineering drawings, specifications, and cost estimates showing the scope and extent of any non-emergency repairs to be performed, including any special notes, site conditions, and repair requirements. Submit drawings and specifications to the LaRC Pressure Systems Manager for approval

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- a) Develop and submit an in-service inspection plan for the system in compliance with NPG 1700.6A, Guide for In-service Inspection of Ground Based Pressure Vessels and Systems, and LAPG 1710.42, *Safety Program for the Maintenance of Ground-based Pressure Vessels and Pressure Systems*

### 4.1.3.3 Phase III – In-Service Inspections

In performing the Phase III work on high-pressure systems, the Contractor shall:

- a) Develop and submit a 3-year plan of upcoming in-service inspections and cost estimates for performing these inspections
- b) Perform the inspections required by the in-service inspection plans developed in Phase II
- c) Update the system's documentation and FCM records after the inspections are completed and as changes to the system occur
- d) Use the OME Virtual Library (Reference Section 5.1.2) to disseminate pressure system recertification information to the LaRC community

### 4.1.3.4 Recertification NDE Requirements

The Contractor shall utilize American Society of Nondestructive Testing certified inspectors and the non-destructive examination (NDE) techniques described in Section V of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code when conducting non-destructive examinations of welds and high stress areas. Minimum qualifications for NDE personnel are given in Appendix 1.7, *Worker Qualifications*. The Contractor shall provide all necessary staging, insulation removal, and other preparations for performing NDE. Upon completion, the Contractor shall replace all insulation and return the system to its original condition. The Contractor shall utilize the radiographic examination method (RT) for the Phase I and Phase II non-destructive examination of pressure containing welds unless otherwise approved by the CO. The Contractor shall follow the requirements in LAPD 1710.5, *Ionizing Radiation*. Acceptance criteria for non-destructive examinations shall be in accordance with the applicable national consensus codes and the applicable requirements of LAPG 1710.40, *Safety Regulations Covering Pressurized Vessels*, LAPG 1710.41, *LaRC Standard For Evaluation of Socket and Branch Connection Welds*, LMS-TD-5561, *Performing Dye Penetrant Inspections*, LMS-TD-5562, *Performing Magnetic Particle Inspections*, and LMS-TD-5569, *Performing Visual Inspections*. The Contractor shall submit all radiographic examination interpretation sheets and radiographic film to the CO for final approval.

### 4.1.3.5 Storage of Radiographic Film

The Contractor shall provide a storage facility for continuous storage and security for all existing and future radiographic film of high-pressure systems. The radiographic film storage shall be protected from the weather by storing it in a temperature (68 to 76

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degrees F) and humidity (30 to 60% Relative Humidity) controlled environment, and shall be protected from fire hazards. The facility location shall provide for a film storage vault to store the radiographs. The film storage vault should be approximately 150 square feet in size, protected by 3-hour firewalls, and contain approximately 500 cubic feet of shelf and file cabinet storage volume.

### 4.1.3.6 Re-certification Drafting Requirements

All new drawings and sketches shall be generated and maintained using the Autodesk AutoCAD drafting software. All drawings shall be maintained in FCMOL using the AutoCAD drafting software.

### 4.1.4 Reserved

### 4.1.5 Drawing File Services

The Contractor shall maintain the Engineering Drawing Files (Reference Appendix 5.1, *OME Business Systems*), located at LaRC Building 1130T2, in accordance with LAPG 7320.1, *Engineering Drawing System*. Drafting File Service Requests will be initiated by contacting the Customer Service Desk or by walk-in requests. Government and Contractor personnel will use this service. The Contractor shall:

- a) Prepare all drawings for microfilming by reducing drawings to standard size and packaging for shipment. Ship drawings and track progress of microfilming work. Review returned microfilm for archival quality
- b) File and retrieve original drawings and aperture cards
- c) Reproduce and distribute copies of drawings according to schedule negotiated with requester
- d) Perform minor maintenance per manufacturer's specifications and contact vendor when machines require repair or service
- e) Attend semi-annual NASA Engineering Drawing System Committee meetings in accordance with LAPG 7320.1, *Engineering Drawing System* to provide information on capabilities and respond to user issues. Provide drawing files system data when required
- f) Receive and prepare LaRC records (such as shipping documents, inventory control records, safety reports, model books, purchase orders, and vouchers) for microfilming, inventory contents, package for shipment, and store pending transfer to Federal Records Center or destruction per LAPD 1440.6, *Records Management Program*
- g) Actively participate in developing technology improvement plan to provide on-line access to drawing and to modernize the drawing retrieval and storage process (See Technology Improvement Plan 5.3.15)

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### 4.1.6 Specification Services

The Contractor shall operate and maintain the Government's SPECINTACT system or another Contractor provided specification package, if approved by the CO for the preparation of construction specifications. The SPECTINTACT system is the Government's computerized storage, retrieval and rapid printout system (<http://si.ksc.nasa.gov/specintact/index.html>). Work shall be initiated using SR, issued through the Customer Service Desk. The Contractor shall provide specification services for both Contractor projects and other NASA projects at LaRC. The Contractor shall extract and assemble construction contract specifications. The work includes generation of draft specifications from Langley Master Specifications, and proofreading and producing final versions of specifications or CO-approved alternative specification package. Incidental typing to produce final specifications shall be required. Data sheets and other technical specification attachments will be included as necessary. The Contractor shall provide the necessary specification operation and file clerk services currently located on-site in Building 1209, Room 187. The Contractor shall keep the SPECINTACT Master, which has been edited for Langley specific information (Langley Master Specifications) current and available for use. The Contractor shall actively participate in developing improvements to the specification system (See Section 5.3.15, Technology Improvement Plan).

### 4.1.7 Facility Documentation Library Services

All documentation in the facility libraries (4.1.7.1 through 4.1.7.3) shall belong to the Government and remain in the facility libraries at contract end.

#### 4.1.7.1 Engineering Library Support Services, Building 1209

The Contractor shall operate the Engineering Library, located in Building 1209, Room 187, and provide documentation library support between the hours of 8 a.m. and 4:30 p.m. each Government workday. Access to the engineering files shall be provided 24 hours per day, seven days per week. The contractor shall:

- a) Maintain the existing construction records system, incorporate new data to expand the engineering file database, and respond to customer requests for service or assistance
- b) Provide engineering contract records to the requestor and establish new engineering contract files and electronic media cross reference records
- c) Prepare closed out contracts for conversion to historical records after receipt of the contract close out memorandum from the Office of Procurement
- d) Post updated technical references in the Engineering Library
- e) Facilitate the processing of project submittal records for ROME and other Contractors at LaRC, using the new electronic submittal process, as discussed in

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Section 5.1.2. All submittals shall be provided in the original and "PDF" formats. During the transition period to electronic submittals and for other Contractors, the Contractor shall process hard copy submittals, in accordance with LMS-OP-5687, *Facility Systems Processing of Contract Submittals*

### 4.1.7.2 Documentation Libraries for NTF and 8' HTT

The Contractor shall operate the document libraries located at the National Transonic Facility, Building 1236 and the 8-Foot High Temperature Tunnel (8' HTT), Building 1265, between the hours of 8 a.m. and 4:30 p.m. each Government workday. Access to the libraries shall be provided 24 hours per day, 7 days per week. The Contractor shall:

- a) Issue the latest copies of all procedures for test runs to the Test Director and Principal Investigator
- b) Maintain an electronic inventory of all library documents
- c) Track and control library contents for check-in and check-out
- d) Assure that all supporting facility drawings are filed in Engineering Drawing Files, Building 1130T2 at LaRC
- e) Receive and record information on all Problem Failure Reports (PFR) and Task/Test Requests (TTR)
- f) Populate existing databases with information from PFR and TTR. Assure that required signatures are obtained when a TTR or PFR is initiated and prior to closure
- g) File originals of TTR and PFR in the document library
- h) Provide TTR close-out tracking and signature approvals
- i) Promote the use of electronic TTR and PFR form submittals and tracking (currently in development on aeroCOMPASS)

### 4.1.7.3 Documentation Libraries for UPWT, 14 x 22, and TDT

By the end of the scheduled transition period for operations of each of the three wind tunnel facilities defined in Appendix 1.5, *Transition Management Plan*, the Contractor shall create new documentation libraries, consisting of hard copy operation, maintenance, and engineering technical documentation, and maintain these documentation libraries throughout the contract period. The Contractor shall develop a system for checking out documents and maintaining document control. The Contractor shall provide documentation library cataloging and filing services at each of these libraries for 4 hours per day between the hours of 8 a.m. and 4:30 p.m. each workday. Access to the libraries shall be available 24 hours per day, 7 days per week. The new documentation libraries for the 14 x 22 Tunnel, the Unitary Wind Tunnel, and the Transonic Dynamics Tunnel shall be modeled on the 8-Ft High Temperature Tunnel, Building 1265 documentation library. The Contractor shall:

- a) Move the existing documentation to a centralized location at each facility, as specified by the respective Facility Managers, by the end of the facility's

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- transition period. Currently, each facility has existing documentation scattered throughout the facility
- b) Catalog the existing documentation, file the information, and implement a sign-in/sign-out procedure by the end of the facility's transition period
  - c) Gradually scan hard copy documentation into electronic files and place documents into the OME Virtual Library (See Section 5.1.2). Existing documentation shall be scanned in within three years after the start of the facility's transition period. New hard copy documentation shall be scanned in within 10 days of receipt.
  - d) Provide computers at each site for access to the OME Virtual Library by the end of the facility's transition period
  - e) File all new hard copy technical documentation generated from engineering projects, maintenance work, or any other activity into each facility's documentation library, except for configuration management information, which is filed in the CMOL system within 10 days of receiving information
  - f) Provide a common filing system for documentation at all five facilities

### 4.1.8 Project Reporting Services

The Contractor shall generate and submit a monthly status report, which summarizes the progress of all LaRC facility design and construction projects. The NASA project managers will provide project status information to the Contractor for the non-ROME projects. Within 30 days from the **implementation date** of the contract, the Contractor shall meet with the CO to coordinate a common format and finalize submittal requirements. Contractor support includes, but is not limited to:

- a) Electronic schedules in accordance with Section 4.2.4.2.6
- b) Electronic summary status sheets giving project plans for this reporting period, accomplishments for this reporting period, plans for the next reporting period, and areas of concern/risk
- c) Collection of data from the Project Management Engineers and generating the final report that is sent to NASA HQ
- d) Copying and distribution of approximately 30 copies

### 4.2 ENGINEERING PROJECTS

The Contracting Officer will issue Work Orders (WO) or Task Orders (TO) for the pre-project planning, design, and/or construction of new institutional and research facilities or facility upgrades. For construction projects, the designs may be generated by NASA, by the Contractor, or by other Contractors. The Contractor shall provide project management for engineering projects. Project management includes, but is not limited to, planning and coordination required to ensure that assigned projects are expedited and accomplished in a safe manner, with appropriate checks and balances ensuring

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that appropriate approvals are obtained, and that the Facility Coordinator and Facility Safety Head are involved with work accomplished in the facility. Project management guidelines are given in Appendix 4.6, *Best Practices Model for Facility Work* and described in more detail in NPG 8820.2C, *Facility Project Implementation Handbook*. The Contractor shall complete these duties for the project planning, design, construction, and activation phases of selected projects. Occasionally, work will be issued for other NASA Centers or Government Agencies. All designs shall conform to the applicable codes for such work, unless specified in individual WO/TO. Projects will be required in the following areas:

### 4.2.1 Institutional Facilities and Utility Systems

Institutional facilities and utility systems are land, buildings, laboratories, other structures and facilities, steam, water, electrical power distribution, and other systems that supply the entire Center. This type of work is very similar to what is found in industrial plants or commercial facilities. Work will include the following disciplines:

#### 4.2.1.1 Civil, Structural, and Architectural Systems

The Contractor shall design and build civil, structural, and architectural systems. The designs shall include functional and environmental relationships, economy in construction and maintenance, and considerations for health and safety while providing the flexibility necessary to permit future expansion. The work shall include, but not be limited to, site selection, utility development, civil work, selection and use of materials and structural framing systems. Designs shall be compatible with clear space and span requirements, applicable fire protection classification, foundation conditions, architectural treatment guides, and consideration of climate conditions and structural design loads for the specific facility and location. Designs shall incorporate appropriate energy efficiency and sustainable design elements (See Section 4.2.4.3.1.4).

#### 4.2.1.2 Mechanical Systems

The Contractor shall design and build heating, plumbing, fire protection, ventilating, and air conditioning mechanical systems. The air conditioning systems shall provide year-round automatic temperature control. The design of the systems shall be based on a study of air conditioning requirements, extent of control required, appearance of appurtenances in occupied spaces, type of cooling source, nature of occupancy, building structure, and any other factors peculiar to the project. Special attention shall be given to the incorporation of energy conservation features such as an enthalpy control for economizer cycle, timers for night setback and weekend shutdown.

#### 4.2.1.3 Electrical Systems



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The Contractor shall design and build electrical systems for projects including power, lighting, fire alarm, grounding, controls, communications, and associated systems necessary for the operation of facilities.

### 4.2.2 Research Facility Systems

Research facility systems are wind tunnels, testing laboratories, simulators, and other facilities that are used for research testing purposes. These systems involve the following disciplines:

#### 4.2.2.1 Mechanical Equipment and Systems

4.2.2.1.1 The Contractor shall provide design and fabrication related engineering services for specialized mechanical research equipment and systems. Components include, but are not limited to, precision mechanisms and mechanical drives; hydraulic, pneumatic, and electric actuators; mechanical structures, including machine frames, static and dynamic support structures for machinery; walled structures; vacuum and pressure vessels; heat transfer devices; and integrated systems. Components will be subjected to a variety of environments including cryogenic and elevated temperatures, which may require active heating or cooling subsystems. Additional environments which require application of specialized knowledge include, but are not limited to: high pressures, oxygen and hydrogen rich environments, specialty gases and fluids, high vibration and noise, and a full range of aerodynamic flow conditions ranging from low-subsonic to hypersonic speeds.

4.2.2.1.2 The Contractor shall provide designs, fabrication, and/or repair of research equipment and related systems per applicable standards and constraints. The Contractor's responsibilities will include, but are not limited to: purchase of materials, components, and subsystems; machining of structural and mechanical components; assembly of components, subsystems, and systems; quality control inspection of materials, components, subsystems, and systems; performance demonstrations; and updates of as-built drawings.

4.2.2.1.3 The Contractor shall provide precision machining of complex contoured and mating surfaces, validation of contours, welding of structural and pressurized components, non-destructive examination and specialized processing. Materials will include common engineering materials as well as difficult to fabricate aerospace materials. Completed components and systems will include, but not be limited to, model support, injection, and positioning systems; wind tunnels and components; flow survey devices; structural test systems, and robotics. Fabrication and machining of test articles are not included in this contract.

4.2.2.1.4 The Contractor shall provide documentation for mechanical equipment and system engineering design and analyses, material certification, fabrication procedures,

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verification of as-fabricated mechanical properties, testing, and demonstration of functional performance. When specified in the WO/TO, the Contractor shall provide specialized design and analyses including solid modeling, finite element structural and thermal analysis, mechanism simulation, and fracture mechanics. Specialized design and analyses may require proficiency with contractor-owned software programs such as FLUENT, FLUENT/UNS, PATRAN, NASTRAN, Pro/Engineer, Pro/Mechanica, MathCAD, Maple, Matlab, and Mathematica, or other similar COTS programs.

### 4.2.2.2 Fluid Systems and Components

4.2.2.2.1 The Contractor shall provide designs, fabrications, and/or repairs, of specialized research fluid systems and equipment. Components will include, but not be limited to, specialized valves, piping, heat exchangers, dryers, separators, compressors, filters, blowers, vacuum pumps, refrigeration systems, instrumentation, and control systems. Components and systems will handle conditions ranging from hard vacuum to high pressures, cryogenic to elevated temperatures, and specialty gases. The Contractor shall design components, systems, and fluids involving such subjects as thermodynamics, fluid and gas mechanics, material compatibility, and safety precautions required for high energy systems. Completed equipment and systems will include, but not be limited to: high-speed and low-speed wind tunnels, plasma jets, thermal systems, high vacuum systems, cryogenic systems, gas systems, process heat exchangers, heavy gas reclamation systems, research support utilities, and associated control systems.

4.2.2.2.2 The Contractor shall provide fabrication and installation of equipment and related systems per completed final designs and applicable standards. The Contractor shall provide components and subsystems; fabrication of pressure vessels, heat exchangers, and specialized components; assembly of all components and subsystems; subsystem checkout; and updates to drawings and documentation to reflect as-built and assembled configurations. All facility modifications will require complete documentation of engineering design and analyses, material and component certification, fabrication and cleaning procedures, as-fabricated and assembled configuration, and demonstration of functional performance. When specified in the WO/TO, the Contractor shall provide specialized analyses including, but not limited to, computational fluid mechanics, piping flexibility, and process control simulation. These analyses may require proficiency with Contractor-owned software programs such as CAESAR II, PULS, AutoPIPE, and other similar systems.

### 4.2.2.3 Electrical and Control Systems

The Contractor shall provide designs, fabrications, hardware, software coding, installation, testing, and documentation updates to reflect as-built configuration for facility electrical systems and facility automation and control systems. Facility electrical systems include, but are not limited to, high and low voltage electrical distribution

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systems, wind tunnel drive systems, heater power supplies, and other electrical system components. Development of Facility Control and Automation Systems is included in Section 4.2.3.1. Control system support includes the application of these developed systems or use of standard controls technologies in the construction of integrated research facilities systems.

### 4.2.2.4 Special Safety Engineering Projects

The Contractor shall provide support for systems safety engineering for LaRC Facilities Configuration Management program (Section 4.1.2). The Contractor shall identify, assess, and control hazards to personnel and equipment associated with the construction, modification, and operation of research facilities at LaRC; perform hazard analyses on a wide range of systems, including, but not limited to, high-pressure, cryogenic, high temperature, hydraulic, and high speed; when requested, perform special safety and facility assurance projects such as updating/developing safety handbooks, perform special safety studies, and perform reliability analysis on a research facility and/or equipment.

### 4.2.2.5 Drafting Projects

The Contractor shall provide general drafting services. The Contractor shall provide new drawings and revisions to existing drawings from engineering sketches and redline markups for electrical, piping, architectural, civil engineering and mechanical disciplines. The Contractor shall perform manual and electronic drafting. Manual drafting consists of revisions to existing drawings not in an electronic format. The Contractor shall match lettering style line weight, symbols, and detail configurations with the content of the original drawing and shall deliver the completed product within the schedule specified for each WO/TO. Drawing sets include, but are not limited to, electrical metering drawings, substation switching diagrams, panel location plans, one-line electrical plans and other similar sets. Information for updating these drawing sets will be provided by the Government or shall be obtained by the Contractor through field investigations. The Contractor shall provide computer-aided drafting using AutoCAD and Pro/Engineer software. Computer-aided (electronic) drafting shall consist of preparing new drawings and revising existing drawings. New drawings shall conform to design standards in Section 4.2.4.3.1.1 unless otherwise specified by the WO/TO. The Contractor shall provide electronic drawings that conform to the specified standard and shall deliver the completed product within the schedule specified for each WO/TO. The Contractor shall perform quality control checks and reviews on all Contractor-generated new drawings and on revisions to existing drawings before submission to the Government.

### 4.2.3 Technology Development Support Projects

The Contractor shall provide technology development support services in the following areas: Facility Automation System (FAS) Development, Data Acquisition System (DAS) Development, Instrumentation Systems Development, and Test Technique

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Development. The Contractor shall ensure that the security of developed systems is in accordance with Section 5.3.7.

### 4.2.3.1 Facility Automation and Control System Support

The Contractor shall develop Facility Automation and Control Systems that provide repeatable, precise, stable, multi-variable control of facility parameters and automation of operator functions.

#### 4.2.3.1.1 Development of New Facility Automation and Control Systems

The Contractor shall develop new Facility Automation and Control Systems, applying engineering life cycle practices from concept through system delivery. This includes, but is not limited to, generating automation system requirements specifications, analyzing existing field conditions relative to requirements; designing, implementing, and verifying control applications; system simulations, and commissioning automation systems. Typical systems involve operator workstations networked with embedded microcomputers that evoke responses in field equipment directly or through analog/digital controllers. Test systems employ real-time operating systems at the microcomputer level to ensure deterministic responses to time-critical input events. In some cases, systems interface with Programmable Logic Controllers (PLC), which provide primary safety functions or support automatic staging up and down of primary systems (such as fan drives) and auxiliary systems. The Contractor shall also modify and upgrade the communication systems between various FAS and DAS computer systems, as specified in WO/TO.

4.2.3.1.1.1 The Contractor shall implement software using cross-development and self-hosted computer-based tools (e.g. compilers, linkers, loaders, debuggers, translators, and graphical user interface builders) to create facility control and operator interface applications. At least two software development environments shall be used: Experimental Physics and Industrial Control System (EPICS) and Labview. EPICS is a software development and run-time environment originated by the Department of Energy. The Government will furnish the EPICS software (on CDs). Labview is a commercially available, graphical programming environment, which is compatible with EPICS. Software, which supports automation of operator functions, will involve prototyping and development of operator display layouts with special consideration for ease of use and visual ergonomics. Coding of controls application software in a high level language, such as C, C++, or FORTRAN will be required, including real-time software development.

4.2.3.1.1.2 The Contractor shall perform Configuration Management (CM) of Facility Automation Systems in accordance with LAPG 1740.4, *Facility Systems Safety and Configuration Management*, Chapter 5. Each applicable facility has a CM plan that is placed in FCMOL. LAPG 1740.4 includes requirements to perform software projects in accordance with LMS-CP-5528, *Software Planning, Development, Acquisition, Maintenance and Operations* and LMS-CP-5529, *Software Configuration Management*

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*Planning for Low, High, and Critical Control Software.* IT Security shall be in accordance with NPG 2810.1, *Security of Information Technology*.

### 4.2.3.1.2 Enhancements of Existing Facility Automation and Control Systems

The Contractor shall provide enhancements to existing automation and control systems at NASA LaRC. The Contractor shall recommend, develop, and implement improvements to the facilities' control systems to enhance the operating performance, reliability, efficiency, and test capabilities. The Contractor shall coordinate with the Facility Safety Head to satisfy all facility specific safety requirements. The Contractor shall document all hardware and software updates in FCMOL. For a list of existing FAS equipment see Appendix 3.30, *FAS Inventory*.

### 4.2.3.1.3 Evaluation of Commercial Facility Automation and Control Systems

The Contractor shall evaluate new and commercially available hardware and operating system platforms, software development tools, and commercial applications that are suitable for use in LaRC research facility automation and control system projects. Evaluation includes, but is not limited to, bench testing of new hardware and software, risk analysis, and mitigation plans with regard to specific automation and control system applications. The Contractor shall report finding in accordance with the WO/TO requirements.

### 4.2.3.1.4 Development of PLC-based Safety and Interlock Systems

The Contractor shall develop PLC-based safety and interlock systems. Development consists of engineering life cycle practices applied from concept through delivery of a system. This includes, but is not limited to, generating safety and interlock requirements specifications; analyzing existing field conditions relative to requirements; designing, implementing, and verifying new and modified interlock logic; and commissioning new systems.

### 4.2.3.1.5 Enhancement of PLC-based Safety Interlock Systems

The Contractor shall enhance existing PLC-Based safety and interlock systems. Enhancement includes incremental improvements to existing systems in order to improve performance or maintainability.

### 4.2.3.1.6 Control System Simulations

The Contractor shall develop facility simulations, devise control strategies, and implement, verify, and validate control algorithms. Facility simulation includes, but is not limited to, generation of linear and non-linear mathematical models of facility plant equipment using digital simulation programs such as Matlab and Simulink; validation of mathematical models using facility operational data; and characterization of facility processes. Related activities include, but are not limited to, development of control

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strategies based on conventional methods and newer technologies such as fuzzy logic and neural networks; implementation and verification of control algorithms suitable for the target hardware; and validation of actual hardware and software components prior to installation at the facility

### 4.2.3.2 Data Acquisition Systems (DAS) Development Support

The Contractor shall perform work in the following areas: Design, Furnish, and Install DAS; Modify and Upgrade DAS; Analysis of Measurement Data; Support Off-Site DAS; On-Site DAS and Instrumentation Systems Operations; Documentation of Hardware and Software Configurations, System Operational Procedures, Test Procedures and Results; and Training. The Contractor shall provide user training for the systems and services for all applications, products and services delivered. This training shall include user and operational training on DAS. Newly developed software and enhancements to existing software shall be in accordance with the Langley processes for LMS-CP-5528, *Software Planning, Development, Acquisition, Maintenance, and Operations* and for LMS-CP-5532, *Software Acquisition Planning*. Software Configuration Management shall be in accordance with LMS-CP-5529, *Software Configuration Management Planning for Low, High, and Critical Control Software*. IT Security shall be in accordance with NPG 2810.1, *Security of Information Technology*.

#### 4.2.3.2.1 Design, Furnish, and Install Data Acquisition Systems

The Contractor shall design, furnish, and install DAS and associated interfaces to instrumentation. The designs shall include the delivery of design documentation to all specified levels (e.g., detail design level) and standards, inclusive of acceptance and integration/test plans. The Contractor shall verify the correct operation and performance level of the delivered systems and all other affected systems, in accordance with applicable test/integration plans and schedules.

#### 4.2.3.2.2 Modify and Upgrade Data Acquisition Systems

The Contractor shall modify and upgrade DAS and associated DAS interfaces to instrumentation. System upgrades and modifications include the submittal of design documentation to all specified levels (e.g., detail design level), standards, and integration/test plans. The Contractor shall verify the correct operation and performance level of the delivered systems and all other affected systems in accordance with applicable test/integration plans and schedules. The Contractor shall also modify and upgrade the communication systems between various DAS and FAS computer systems as specified in WO/TO.

#### 4.2.3.2.3 Analysis of Measurement Data

The Contractor shall perform data analysis of aeronautical, acoustics, and structural test data. The Contractor shall analyze research data according to stated or derived research specifications and shall optimize all data analysis processes for cost

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effectiveness and accuracy. The Contractor shall submit to the CO complete documentation of the analysis of data to include, but not limited to: data records, processes, calculation/equations, calibrations, results, and methods used for verifying data accuracy and for determining measurement uncertainty. The Contractor shall establish and maintain documented procedures to control, calibrate, and maintain equipment and systems required to perform the data analysis function.

### 4.2.3.2.4 Off-site Data Acquisition Systems Support and Analysis

The Contractor shall perform data acquisition systems development, operation, calibration, data analysis, hardware/software maintenance, configuration control, and upgrades for off-site research measurement systems and instrumentation. Examples include support of acoustics field test vans for aircraft noise studies, development and implementation of data and instrumentation systems for other NASA Centers, data systems for atmospheric sciences flight studies from NASA Wallops Island, Va. and data systems for tire test studies on cars and vans at NASA Wallops Island, Va. The Contractor shall provide support for associated instrumentation systems and special analysis software that will be developed, operated, and maintained in the field.

### 4.2.3.3 Instrumentation Systems Development Support

The Contractor shall support NASA in the development of new Instrumentation Systems at NASA-LaRC

#### 4.2.3.3.1 Application of Sensors, Transducers, and Instruments

The Contractor shall design, fabricate, select, assemble, install, test, calibrate and verify correct operation of Sensors, Transducers, and Instruments (STI) required to meet research instrumentation requirements, in accordance with manufacturer and Langley approved procedures: LMS-CP-0506, *Selection, Use and Control of Inspection, Measuring and Test Equipment (IM & TE)* and LMS-CP-0510, *Procurement of Inspection, Measuring and Test Equipment (IM & TE)*. Test article balances and balance calibrations are not included in this contract.

#### 4.2.3.3.2 Evaluation of Measurement Requirement for Sensors, Transducers, Instruments, and Data Acquisition Systems

The Contractor shall evaluate measurement and test requirements obtained from meetings with research customers, user-specifications, and work requests that define the research test objectives for STI and data acquisition systems (DAS). The Contractor shall synthesize these requirements and submit recommendations to the CO for the best STI and DAS solutions. Recommendations may require tradeoff analyses and cost/benefits comparisons. Recommendations may require analyses of measurement error and measurement uncertainty. The Contractor's recommendations shall be written and in accordance with specified NASA documentation standards (NASA Software/Hardware Documentation Standards

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(<http://satc.gsfc.nasa.gov/assure/docstd.html>). The Contractor shall provide the most effective, reliable, and accurate recommendations to accomplish this work element.

### 4.2.3.4 Test Techniques Development Support

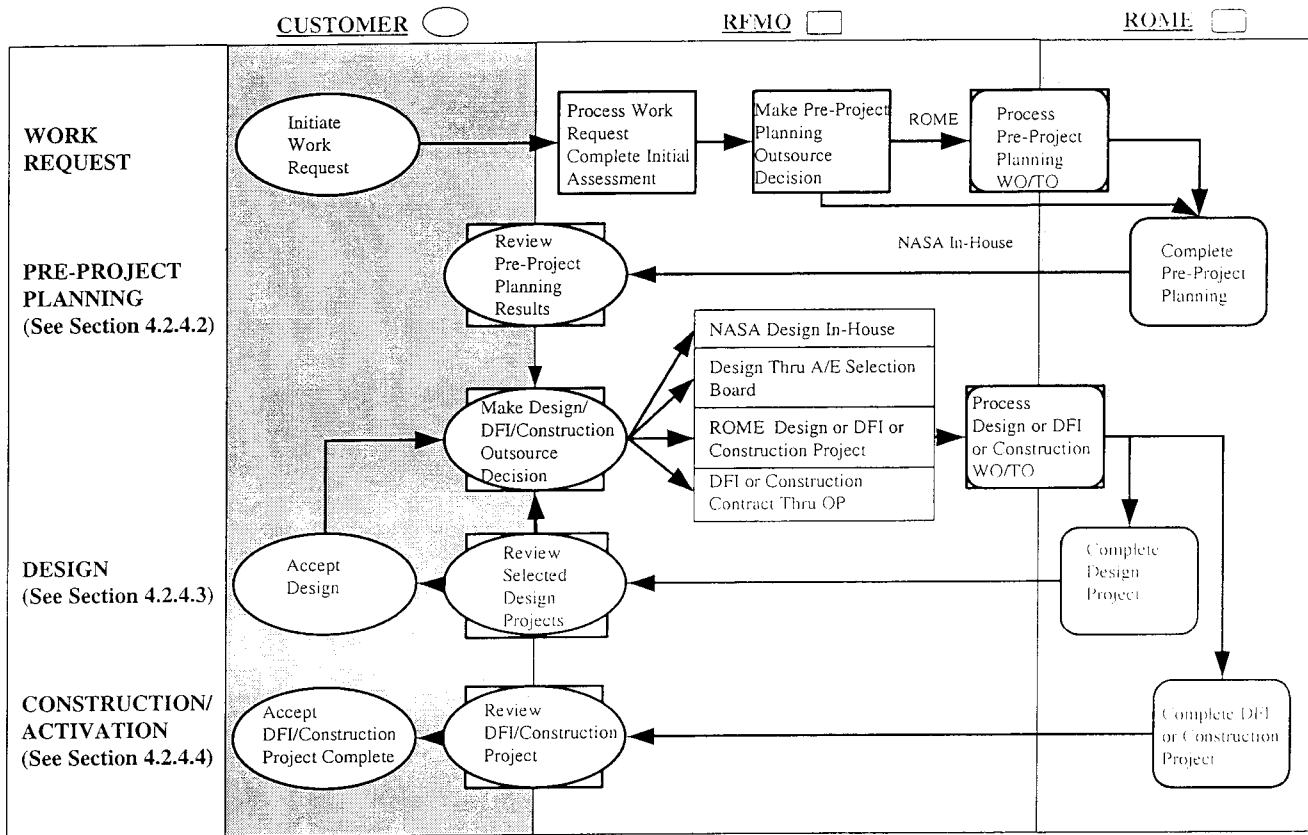
The Contractor shall support NASA to provide advanced engineering and experimental systems development expertise for the design and implementation of specialized instrumentation system prototypes for special test techniques. Such work will require feasibility studies, conceptual through detailed design, prototype development, integration and adaptation of prototypes to existing systems, development of test and calibration procedures, operation/application of prototypes and procedures, and analysis of results. Data collection and analysis shall be to the level required for publication of formal papers. This work applies to areas such as advanced data systems architecture development, optical systems development, sensor/system calibration techniques development, acoustic measurement techniques, temperature and pressure sensitive paint technologies, and general sensor development in support of new testing capabilities.

### 4.2.4 Project Work Flow and Guidelines

The following chart shows the phases of engineering work, interfaces, and procurement options available to the Government in completing various project phases. Engineering workflow follows LMS-CP-5620, Facility Systems Engineering Process. This chart is used to demonstrate how the ROME Contractor will be involved in the project work and is for illustrative purposes only.



## Engineering Project Flow Diagram



Reference Facility Systems Engineering Process LMS-CP-5620

### 4.2.4.1 Project Phases

4.2.4.1.1 Facility related projects are subdivided into Pre-Project Planning, Design, and Construction Phases. Work Orders (WO) or Task Orders (TO) will be used to initiate work for project phases on turnkey design, furnish and install (DFI) projects. For most projects, the Contractor will initially complete the pre-project planning phase of work. Work in the pre-project planning phase includes development of project management plans, requirements documents, conceptual designs, special studies, cost estimates, project implementation plans, acquisition plans and preliminary engineering reports. The Government may decide to by-pass pre-project planning for small projects if the work is clear and well defined in the work statement. After this pre-project planning phase of work is complete, the Government will make a decision as to how to proceed with the design and build phases. There are four options:

- a) Utilize NASA's in-house staff to perform engineering and design work (ROME) Contractor not involved with design phase)

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- b) Utilize the LaRC Architect/Engineering (A/E) Board to select an independent A/E to complete the engineering and design work (ROME Contractor not involved with design phase)
- c) Issue the Contractor a WO/TO to complete a design, DFI, or construction project
- a) Issue a separate DFI or construction project through the Office of Procurement (ROME Contractor not involved with DFI or construction phase)

### 4.2.4.2 Pre-Project Planning

Pre-project planning is the preliminary work needed to identify and expand engineering requirements and project management information. Pre-project planning includes the development of: project management plans, requirements documents, conceptual designs, special studies, Project Definition Rating Index (PDRI) assessments, cost estimates, project implementation schedules, acquisition plans, preliminary engineering reports (PER), and project requirements and conceptual design reviews.

4.2.4.2.1 Project Management (PM) Plans: When specified in the WO/TO, the Contractor shall prepare project management plans according to LMS-OP-5689, *Facility Systems Project Management Plan Development*. The Project Management Plans shall include all the information and supporting documentation needed to manage and control the budget, costs, and technical performance, including product assurance and risk management plans. The PM Plans shall include a work breakdown structure with the resources, schedule, and dependencies of all work elements identified. The Contractor shall tailor implementation of the PM Plan to the specific needs of the project consistent with the project size, complexity, criticality, and risk.

4.2.4.2.2 Requirements Documents: The Contractor shall complete requirements documents in accordance with LMS-OP-5688, *Facility Systems Requirements Document Development*. The Contractor shall derive project requirement from information supplied by the Government. Project requirements shall be based on analysis of system requirements with respect to subsystem and integrated systems concepts, cost, schedule, benefit, risk, feasibility, operability, sustainability, maintainability, reliability, and related considerations.

4.2.4.2.3 Conceptual Designs: The Contractor shall obtain data upon which to develop design concepts; perform preliminary analyses and studies; and prepare sketches, diagrams, layout plans. The Contractor shall perform site visits and field investigations during the pre-project planning phase to verify site conditions and project documentation. For selected projects, the Contractor shall complete Project Definition Rating Index (PDRI) assessments (See Appendix 4.7, *Project Definition Rating Index, April 2000*) during the pre-project planning phase.

4.2.4.2.4 Special Studies: The Contractor shall perform engineering analyses including feasibility studies, technology assessments, trade-off studies, third-party reviews, and failure analyses. The Contractor shall prepare reports, which document studies and

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analyses, and provide formal and informal briefings to NASA as specified in the WO/TO. The Contractor shall complete the NEMA Environmental Checklist Form for each project and coordinate with NASA's Environmental Impact Assessments are not completed under this contract, but the Contractor shall provide project information needed for these assessments to be done.

4.2.4.2.5 Cost Estimates: During the pre-project planning phase, the Contractor shall prepare budget cost estimates for each project. The cost estimates shall be in an electronic spreadsheet format. The accuracy of the cost estimate shall consistent with the phase of work. For pre-project planning the budget estimate shall be between 0% and + 40% (estimate on high side) of the construction cost. The cost estimate shall include risk factors at each subsystem level to account for expected cost increases due to such factors as lack of design maturity and technical challenges. The Contractor shall identify known risks. Unless otherwise directed by the CO, the Contractor shall include in the budget estimate the following adders for Construction of Facilities (CoF) projects: (1) 3% per year compounded annually for cost escalation adjustment from the date of the cost estimate to the mid-point of construction, (2) 5% for construction contingencies applied to the cost estimate and cost escalation adjustment, and (3) 8% for Supervision, Inspection, and Engineering Services applied to the cost estimate, cost escalation adjustment and construction contingency.

4.2.4.2.6 Project Implementation Schedules: The Contractor shall prepare project implementation schedules using Microsoft Project software. The project schedules shall cover all phases of work, and individual task durations shall be commensurate with the overall project duration. The schedule shall utilize predecessor and successor logic and shall identify the critical path. The schedule milestones shall be consistent with the NASA mission critical targets, specified in the WO/TO.

4.2.4.2.7 Acquisition Plans: The Contractor shall make recommendations for acquisition of the design, construction and activation phases of the project, which are customized for the funding type, funding year, and implementation strategy provided by NASA. The final pre-project planning budget and schedule shall be consistent with this overall acquisition strategy.

4.2.4.2.8 Preliminary Engineering Reports: The Contractor shall prepare Preliminary Engineering Reports (PER) for designated projects in accordance with NPG 8820.2C, *Facility Project Implementation Handbook*. Each PER shall provide the basis for preparing final design, specifications, and cost estimates for implementation of planned projects.

4.2.4.2.9 Project Requirement and Conceptual Design Reviews: The Contractor shall complete Project Requirements Reviews (PRR) and Conceptual Design Reviews (CoDR) in accordance with LAPD 7000.2, *Review Program for Langley Research Center (LaRC) Facility Projects*, LMS-CP-5621, *Facility Systems Project Review*, and LMS-OP-5694, *Facility Systems Project Review Requirements*. The number of design reviews will vary with the size of the project and technical complexity. The Contractor

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may be requested to organize, provide review panel members, and lead independent design reviews for selected institutional projects. Each WO/TO will specify the number, timing, and the type of design reviews required. In addition to scheduled formal reviews, ad-hoc reviews may be held as needed.

### 4.2.4.3 Design

#### 4.2.4.3.1 General Guidelines

The Contractor shall complete preliminary and final designs, in accordance with LMS-CP-5620, *Facility Systems Engineering Process* and the following guidelines.

4.2.4.3.1.1 Design Codes, Standards, and Guidelines: All designs, material selections, drawings, specifications, and other documentation produced under this contract shall conform to nationally accepted codes and standard practices. This shall include NPG 8820.2C, *NASA Facility Project Implementation Handbook*, and LAPG 7320.1, *Engineering Drawing System*. The Contractor shall incorporate a codes analysis to verify that all applicable NASA and national consensus codes are followed. Deviations from code compliance shall be clearly documented in writing and submitted. Drawing requirements shall be in accordance MIL-STD-100E, *Drawing Requirements Manual*, as supplemented by Appendix 4.8, *Mechanical Drafting Standards*. Facility systems software development shall be in accordance with the requirements of IEEE/EIA 12207.0, *Standard for Information Technology – Software Life Cycle Processes*, and LMS-CP-5528, *Software Planning, Development, Acquisition, Maintenance & Operations*. The Contractor shall visit the project site as necessary to fully understand constraints and verify existing conditions for each project. Where appropriate, the CO will include specific standards and requirements in each WO/TO. All drawing shall be computer-generated in the current release of AutoCAD and metric or English units shall be used as directed in WO/TO.

The Contractor shall also comply with the following basic design considerations:

- a) Requirements: The design shall be based on the actual functional and technical requirements established by the WO/TO
- b) Scope Limitations: The design shall stay within the approved project scope
- c) Budgetary Limitations: The design shall be accomplished so that the facility can be built and made functional within the approved budget. The use of additive or deductive alternate items may be allowed and shall be coordinated with the CO before they are included in the design and solicitation documents
- d) Construction Timing: The start date, duration, and completion date of the project shall meet the program milestones identified in the WO/TO. In addition, the construction schedules must be coordinated with the research facility operation schedules
- e) Operability/Maintainability: The design shall consider and include features that foster effective and efficient facility operation and maintenance

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- f) Constructability: The design drawings and specifications shall be appropriately detailed for what is to be built
- g) Master Plan: The design siting and layout shall conform to the approved Center Master Plan and take advantage of existing utilities and accesses
- h) Geographical Location/Orientation: The design shall take into consideration seismic, wind, flood, heating/cooling, and other relevant environmental factors

4.2.4.3.1.2 Preliminary and Final Design Review: The Contractor shall complete preliminary design reviews (PDR) and final (critical) design reviews (CDR) in accordance with LAPD 7000.2, *Review Program for Langley Research Center (LaRC) Facility Projects*, LMS-CP-5621, *Facility Systems Project Review*, and LMS-OP-5694, *Facility Systems Project Review Requirements*. The number of design reviews varies with the size of the project and technical complexity. The Contractor may be tasked to organize, provide review panel members, and lead independent design reviews for selected institutional projects. Each WO/TO will specify the number, timing, and the type of design reviews required. In addition to scheduled formal reviews, ad-hoc reviews may be held as needed.

4.2.4.3.1.3 Designs Involving Asbestos Removal: For design work involving asbestos removal, the Contractor shall use an Asbestos Project Designer (See Appendix 1.7, *Worker Qualifications*).

4.2.4.3.1.4 Energy Efficient Designs: For new construction and rehabilitation of existing buildings, the Contractor shall comply with the energy efficiency requirements set for in 10 CFR 434, *Energy Code for New Federal Commercial and Multi-Family High Rise Residential Buildings*, and NPG 8570.1, *Energy efficiency and Water Conservation Technologies and Practices*. The Contractor shall provide written certification that designs meet or exceed the energy performance standards of 10 CFR 434.

4.2.4.3.1.5 Electrical Power System Design Software: For power distribution systems, the Contractor shall use the Electrical Power System Design Software from EDSA Micro Corporation. NASA will provide to the Contractor the EDSA Technical 2000 Service Pack 2. This software is a design tool for creating and simulating detailed one-line electrical drawings and shall be used by the Contractor to model power systems, calculate fault and voltage drop values, conduct protection coordination, analyze harmonic and power quality issues, and study transient events.

4.2.4.3.1.6 PDRI: When specified in the WO/TO, the Contractor shall use the *Project Development Rating Index* (PDRI) process, presented in Appendix 4.7, *Project Definition Rating Index*, April 2000, to evaluate the readiness of NASA facility projects to proceed to construction. The Contractor shall use this tool three times during the project design: (a) during pre-project planning (b) at the beginning of the preliminary design phase, and (c) at the end of the preliminary design phase.

4.2.4.3.1.7 Design for Reliability: NASA – Langley uses Reliability Centered Maintenance (RCM) for system reliability (See Sections 3.0.1 and 3.1: Facility

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Maintenance Services for additional information about RCM). To facilitate this strategy, the Contractor shall incorporate into all new designs adequate provisions for servicing and maintenance. Designs shall not include components or features, which are not needed or are costly to maintain. Provisions shall be made for required maintenance and for easy removal and replacement of mechanical, electrical, and other equipment. Rooms shall be sized and the equipment located to provide adequate clear space for maintenance operations. Valves, controls, and similar items in concealed areas shall be readily accessible. Rotating equipment shall include provisions for mounting vibration-monitoring instrumentation and equipment. For critical systems, the Contractor shall conduct a reliability analysis, identifying the critical failure points and incorporate appropriate design parameters to prevent and/or reduce systems failure.

4.2.4.3.1.8 Building Layering Standards: The Contractor shall use the Appendix 4.9, *Building Layering Convention* in order standardize AutoCAD products.

4.2.4.3.1.9 Electronic Submittal Process: The Contractor shall initiate and use the OME Virtual Library (Section 5.1.2.) for all submittals. Unless otherwise specified or agreed to by the CO, the Contractor shall post all submittals and reports in both PDF and their native format, with access to both formats provided for each submittal or report.

4.2.4.3.1.10 Designs Approved by Professional Engineers: The Contractor shall use Virginia Registered Professional Engineers to approve all engineering designs and analyses and stamp all new engineering drawings generated in this generated in this contract (See Appendix 1.7, Worker Qualifications).

4.2.4.3.1.11 Drawing Approvals: Final checked drawings shall be checked and approved by the Contractor before any fabrication, construction or facility modification work can begin. The Contractor shall submit all drawings to the CO for approval, in accordance with the requirements of LMS-OP-5686, *Facility Systems Project Document Control*. The Contractor shall obtain comments from the approvers at the earliest possible point in the development of plans, specifications, and drawings involving facility modifications, renovations, additions, or new facilities. Approval requirements are as follows:

- a) Research Facilities Work: The Contractor shall obtain drawing sign-offs for all applicable designs from NASA LaRC Standard Practice Engineers (SPE) for High Pressure, Mechanical, and Electrical Systems, and also SPE for specialty areas of welding, cryogenics, and pressure vessel glass before construction or repair work can begin. The NASA LaRC Chief Engineer for Facilities can sign for any of the SPE if they are unavailable. The NASA LaRC Fire Chief shall approve all designs involving fire protection equipment. The NASA LaRC Energy Manager shall approve all designs for equipment with high-energy use or modifications to utility services that significantly change energy consumption. The NASA LaRC Underground Utilities Manager shall approve all modifications to the underground utilities. The Contractor and NASA organizations responsible for the design shall also approve the design

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- b) Institutional Facilities and Utility Systems: The Contractor shall be fully accountable for the designs developed and for addressing all design errors. The Contractor shall obtain drawing and specification sign-offs by the NASA LaRC Fire Chief, for all projects involving fire protection systems and/or life safety systems or equipment; by the Energy Manager, for designs of equipment with high-energy use or modifications to utility services that significantly change energy consumption; and/or by the Underground Utilities Manager, for modifications to underground utility designs

### 4.2.4.3.2. Preliminary Design

The Contractor shall develop preliminary drawings and analyses; identify long-lead items; refine cost estimates (accuracy between 0% and +20% of construction cost) and develop schedules; develop detailed plans for completion of final design; and develop initial plans for procurement, fabrication, installation, integrated systems testing, and activation of designed systems. The Contractor shall prepare and deliver presentations at Preliminary Design Reviews (PDR) as specified in WO/TO.

### 4.2.4.3.3. Final Design

The Contractor shall produce final designs that conform to NPG 8820.2C, *Facility Project Implementation Handbook*, and specific requirements provided in WO/TO. Brand name or equal product specifications shall provide salient characteristics by which "equals" can be evaluated. Merely specifying a manufacturer's part number or equal will not be acceptable. The Contractor shall check all engineering calculations and drawings and shall so indicate by signing the respective documents. The Contractor shall prepare and deliver presentations at Critical Design Reviews and Specification Reviews as indicated in WO/TO. Final designs shall include the following documents necessary for the system development.

4.2.4.3.3.1 Drawings: Drawings shall be accurate and complete. The Contractor shall follow the guidelines and obtain the necessary reviews and approvals per Section 4.2.4.3.1.11.

4.2.4.3.3.2 Engineering Analyses: Engineering analyses shall be accurate, complete, and signed. The Contractor shall verify by analysis all performance requirements for designed facilities, equipment and systems. Analyses shall be separated by discipline.

4.2.4.3.3.3 Catalog Data and Other Supporting Technical Information: Manufacturer supplied data shall be provided with selected equipment used in the design clearly identified.

4.2.4.3.3.4 Procurement Specifications: Specifications generated shall be accurate and complete, and reflect the customer needs.

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4.2.4.3.3.5 Detailed Cost Estimates: The accuracy shall be between 0% and +10% of construction cost. The estimate shall be based on a bottoms-up exercise, including material take-offs and detailed labor estimates. See 4.2.4.2.5 for more information about cost adders

4.2.4.3.3.6 Verification and Validation Plans: Final designs shall include inspection and testing plans, which identify the critical inspection and testing points for the project.

4.2.4.3.3.7 Construction/Activation Schedules: See 4.2.4.2.6 for more information on project implementation schedules.

4.2.4.3.3.8 Final Report: The final report shall include a comprehensive summary of scope of work, rationale for design decisions, and design documentation.

### 4.2.4.4 Construction

The Contractor shall perform construction services, as directed by the Government in WO/TO. Construction work includes both Institutional Facilities and Utility Systems and Research Facility Systems.

#### 4.2.4.4.1 Construction Management

The Contractor shall provide Construction Management services for construction work performed under this Contract, as well as for work performed by other NASA Contractors, when directed by the CO. The extent of construction management duties for each project will be specified in the individual WO/TO. The Contractor shall coordinate with NASA Project Manager Engineers (PME) during the pre-construction and construction phases by reviewing and making appropriate recommendations regarding specifications and contract drawings, shop drawings, submittals, schedules, cost estimates, safety plans, engineering changes, and tests. The Contractor shall prepare installation plans, coordinate site work with cognizant facility personnel, and maintain up-to-date project-related drawings. Prior to issuing the solicitation, the Contractor shall provide support to evaluate requests for information (RFI) and plan/manage pre-construction conferences. After the construction contract award, the Contractor shall review contract documentation and correspondence required for effective contract administration. The Contractor shall review and make approval recommendations to the CO of technical submittals and resolve technical problems uncovered during the construction process, including both design errors and differing site conditions. The Contractor shall evaluate sub-contractor claims, review and attest to the reasonableness of the subcontractor's schedule and cost estimates, and make recommendations to the CO for action, in accordance with LMS-OP-5692, *Facility System Procedures for Processing RFC and EFD*. The Contractor shall coordinate with inspectors to ensure proper inspection services are being accomplished. The Contractor shall regularly brief the NAS Project Manager Engineer (PME) on the current project status. The Contractor shall monitor the progress of the construction contract



compared to plan, and make recommendations to the NASA PME on when and how to take corrective actions. After construction, the Contractor shall complete as-built documentation of all work it is responsible for, including all subcontracted work; conduct a walk-through inspection ensuring all work is complete; complete closeout documentation per LMS-OP05693, *Facility Systems Construction Contract Closeout Process*; and complete performance evaluations per LMS-OP-5695, *Facility Systems Performance Evaluation and Closeout*.

#### 4.2.4.4.2 Construction Work

The Contractor shall construct institutional facilities and utility systems and fabricate and assemble research equipment and related system per final designs and applicable standards. Responsibilities shall include but not be limited to: purchases of materials, components, and subsystems; machining of structural and mechanical components; assembly of all components needed for system validation; and modifications to design drawings and affected facility drawings to reflect as-built conditions. The Contractor shall also fabricate electrical systems including, but not limited to, purchase of components and subsystems; electronic systems integration; fabrication of control consoles; fabrication of cabling, assemblies, and all components needed for system interface to new and existing facility hardware; quality control inspection of components, assemblies, subsystems, and systems; and modifications to design drawings and affected facility drawings to reflect as-built conditions.

#### 4.2.4.4.3 Facility Systems Software Implementation

The Contractor shall furnish all software necessary to provide fully operational research systems. Responsibilities include, but are not limited to: preparation of software implementation plans; purchase of operating systems, device drivers, network drivers, development tools, software configuration management tools, and diagnostic tools; development of applications for operator interfaces, automatic test sequencing, process control and monitoring, data acquisition and logging, inter-system data transfer, performance monitoring, and troubleshooting aids; prototyping of screen layouts; integration of application software programs; establishing appropriate priorities and execution speeds for application programs in order to achieve required data throughput, operator display update rates, and input response times; testing of software on both development system and target hardware for conformance to specifications; and documentation of source code and procedures required to rebuild, modify, an install application software. The Contractor shall implement the Configuration Management (CM) of Facility Automation and Control Systems in accordance with LAPG 1740.4, *Facility System Safety Analysis and Configuration Management*, Chapter 5.

#### 4.2.4.4.4 Installation

The Contractor shall install research equipment and systems in accordance with specified designs and standard practices. The Contractor shall provide all technical support and project coordination necessary to complete installations. The Contractor

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shall remove existing equipment and associated wiring and cables; install new equipment; interconnect new equipment with power sources, field devices, and other research equipment; perform initial power-up of newly installed equipment; confirm proper operation of new research equipment and affected subsystems; and provide complete documentation of new systems including operator's manuals, software manuals, maintenance manuals, system test results, and as-built drawings.

### 4.2.4.4.5 Component/Sub-System Verification

Once installation is complete, the Contractor shall verify the operation of equipment and related system components or sub-systems. Responsibilities include, but are not limited to: tests, which show compliance with requirements (e.g. power-on/off, emergency cutoff, load capacity, and range of motion); and demonstration of manual operation to facility users. The Contractor shall verify target electronic hardware and software functions prior to installation. Responsibilities include, but are not limited to, system power-up; software installation on target hardware; verification testing using simulation hardware/software to confirm appropriateness of software/hardware design and control schemes; and demonstrations of operational interfaces and general system operations to facility personnel and research customers. The Contractor shall prepare and deliver presentations at Integrated System Reviews (ISR) in accordance with LAPD 7000.2, *Review Program For Langley Research Center (LaRC) Facility Projects*, LMS-CP-5621, *Facility Systems Project Review*, and LMS-OP-5694, *Facility Systems Project Review Requirements*, as specified in WO/TO.

### 4.2.4.4.6 System Integration and Activation

The Contractor shall perform integration, testing, and activation of research systems and components. The Contractor shall plan, conduct, and document integrated system tests. Responsibilities include, but are not limited to, developing comprehensive test procedures; performing system level checkout of all affected facility operations: diagnosing, correcting, and repeating failed test items; documenting test results in formal reports; and tuning control systems to achieve required system performance. The Contractor shall provide research systems activation. Responsibilities include, but are not limited to, preparing and conducting training for facility and maintenance personnel; collecting and analyzing system operational data in order to compare with design requirements and recommend performance enhancement measures; and providing technical support with 24-hours of notification of need. The Contractor shall prepare and deliver presentations at Operational Readiness reviews (ORR) in accordance with LAPD 7000.2, *Review Program for Langley Research Center (LaRC) Facility Projects*, LMS-CP-5621, *Facility Systems Project Review*, and LMS-OP-5694, *Facility Systems Project Review Requirements*, as specified in WO/TO. The Contractor shall complete all documentation requirements, including completion of as-built drawings, operations and maintenance manuals and test reports. The Contractor shall enter all new equipment data and maintenance instructions into the Maximo database.

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### 4.2.4.4.7 Demolition

The Contractor shall perform demolition and removal of selected institutional and research facilities and equipment, as specified in individual WO/TO. Demolition work is expected to increase in the future as facilities continue to age and reach the end of their life cycles, and maintenance of closed facilities take a larger portion of the overall maintenance budget.

## **5.0 INFORMATION TECHNOLOGY**

Information Technology (IT) is the set of multiple applications, infrastructure hardware and software components, documents, and customer services that support the OME business processes and customers. The Contractor shall support the OME IT Business Systems and desktops listed in Appendix 5.1, OME IT Business Systems and Appendix 5.2, *OME IT Business Systems, RFMO Research Desktop Systems*.

### **5.0.1 Description of Information Technology Work**

The Contractor shall perform the following IT work:

- a) **Specific Product Delivery:** Deliver Government OME systems and consolidate hardware and software. Government requirements are defined in Section 5.1
- b) **System Consolidation and Enterprise Architecture:** Provide leadership and skills necessary to consolidate systems, develop an Enterprise Architecture, and align OME IT (IT) with LaRC OME business goals and objectives (Reference Section 1.2). Government requirements are defined in Section 5.2.
- c) **General IT Support Services:** Deliver routine operational services, provide training and consulting services, provide desktop support for RFMO-owned computers, develop and deliver technology plans and reviews, and perform documentation and configuration management. Government requirements are defined in Section 5.3. In addition, remediate actual and potential IT work stoppages and perform minor (within service request limit) IT work. The Government will issue trouble calls and service requests to initiate work.
- d) **Information Technology Projects:** Perform discrete IT projects, conduct studies, develop business cases and white papers, and deliver IT products and services as defined in Section 5.4. The Government will issue work orders (WO) and task orders (TO) to initiate work.

### **5.0.2 Information Technology Goals and Objectives**

- a) Ensure no interruption of the customer's daily use of OME IT Business Systems
- b) Ensure data is secure and information is accurate and accessible to the OME and IT customers
- c) Ensure IT meets the needs of all OME customers and supports the OME contract goals (Reference Section 1.2)
- d) Eliminate data and functional redundancy between applications
- e) Conduct marketing, training and perform change management to internal LaRC IT users until such time the users demonstrate proficient use of new IT products and/or upgrades to existing IT products
- f) Ensure technology projects are planned, organized, well documented, and meet schedule, cost, and project goals and objectives

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- g) Reduce IT costs either through a reduction in real dollars spent or an increase in Government productivity through improved information quality and expediency, and/or timely availability of decision-making information
- h) Ensure communication with IT customers is effective and timely
- i) Meet the information technology product and service delivery milestones identified in Appendix 5.3, *Information Technology Product and Service Delivery Milestone Schedule*

### 5.0.3 Use of Available IT Resources

The Contractor shall make best use of LaRC Enterprise Technology Architecture and Software and the OME IT Business Systems hardware and software when planning product development, improvements, and/or procurements. Non-use of available products and resources shall require justification on the part of the Contractor and approval by the CO.

### 5.0.4 NASA's Integrated Financial Management Program

The Contractor shall have knowledge of NASA's Integrated Financial Management Program (IFMP) and the NASA policy that will dictate LaRC use of the IFMP suite of products. The Contractor shall also have expertise with the SAP products impacting the OME IT Business Systems. The Contractor shall take IFMP arrival at LaRC and the IFMP goal of system integration into consideration and incorporate it into all recommendations and assessments for product development, improvements, or procurements. Systems delivered and maintained under this Contract shall be compatible with the IFM system to the maximum extent possible. The Contractor shall participate on the IFMP Asset Management and Core Financial LaRC teams as requested by the CO to support the OME Business IT and/or the RFMO organization.

## 5.1 PRODUCT SERVICE AND DELIVERY

The Contractor shall deliver, install and provide support for the products and services described herein. All product interfaces shall be merged with the OME Enterprise Information Portal (Reference Section 5.1.3) and shall be accessible and usable from LaRC desktops through LaRC internal network (LaRCNet). The Contractor shall minimize the need to install unique hardware or software configurations, third party products or plug-ins. The Contractor shall provide the project management and technical skills necessary to manage and complete each project, deploy a completed product, and provide long-term product support. The Contractor shall carry out all projects in accordance with LMS-CP-5528, Software Planning Development, Acquisitions Maintenance and Operations, and LMS-CP-5529, Software Configuration Management Planning for Low-, High-, and Critical Control Software. The Contractor shall provide and maintain a Software Project Management Plan (SPMP) for each project described herein. The Contractor shall augment each SPMP to include a project

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schedule with milestones and deliverables, estimated costs, required purchases and potential infrastructure changes, a security assessment, prototype designs, and a product acceptance test plan that shall include a customer usability-testing component. In addition, the Contractor shall conduct marketing, training and perform change management for each product in order to promote product availability and facilitate acceptance among Government customers. The Contractor shall submit SPMP to the CO and receive CO approval prior to starting work.

### 5.1.1 Work Request Tracking System (WoRTS)

The Contractor shall install and make available for use by the Government a Work Order Tracking System (WoRTS). The Government will use WoRTS to request and track the products and services available through this contract from the Contractor. WoRTS shall remain inside the LaRC firewall, accessible only from machines utilizing the NASA IP address space and CO authorized off-site machines. WoRTS shall be installed in two releases, with each release meeting the schedule and requirements identified in Section 5.1.1.1 and 5.1.1.2.

5.1.1.1 As of the **contract implementation date**, the Contractor shall install and make available for Government use, WoRTS, Release 1. WoRTS Release 1 shall at a minimum meet the following requirements:

- a) Automate entry and tracking of the Government's Indefinite Deliver Indefinite Quantity (IDIQ) process (Reference Section H)
- b) Entry and tracking of OME and IT Trouble Calls (TC), Service Requests (SR), Work Orders (WO) and Task Orders (TO)
- c) Designation of TC and SR as routine, urgent and emergency.
- d) Dynamic categorization of TC/SR/WO/TO. (E.g. Maintenance TC designated as lighting TC)
- e) Service type (i.e. TC/SR/DO/TO) upgrade and down grade (e.g. TC emergency to TC routine) and service type switching (e.g. TC to SR)
- f) Capture funding source (e.g. Government Purchase Card, Purchase Request (PR)) and validate and process payments via Government Purchase Card
- g) Automated routing, review, and approval (electronic signature) of TC/SR/WO/TO including automated status notifications (e.g. email) to impacted customers and service providers
- h) Attachment of supporting documentation to TC/SR/WO/TO records including, but not limited to, linking to external support documents (e.g. drawing in engineering drawing files, documents in the OME Virtual Library)
- i) Automated tracking of Contractor performance milestones and deliverables
- j) Actual and budgeted cost tracking
- k) Support for the customer feedback requirements identified Section 1.4.1.2. Contractor Performance Management and Assessment

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5.1.1.2 Within 6 months following the installation of the WoRTS Release 1, the Contractor shall install and make available for Government use, a second release of the WoRTS. WoRTS Release 2 shall at a minimum meet the following additional requirements.

- a) Integrate with existing facility-related work tracking and processing systems (e.g. INFOPC/TRIMS, MAXIMO, FMO, EMIT), eliminating the need for the duplicate entry of information into both WoRTS and current existing work tracking and processing systems
- b) TC and SR grouping by building (e.g. identify all outstanding trouble calls for B1268A)
- c) Dynamic reporting and graphing
- d) Dynamic generation of data files in comma-delimited (CSV) format, available for download
- e) Incorporate all CO approved modifications resulting from customer feedback pertaining to the WoRTS, Release 1

### 5.1.2 OME Virtual Library (OME VL)

The Contractor shall install and make available for use by the Government an OME Virtual Library. The Library shall be a centralized, single point of access through which the government and Contractor shall post and retrieve OME reports and submittals pertaining to work performed on this contract. It shall remain inside the LaRC firewall, accessible only from machines utilizing the NASA IP address space and CO authorized off-site machines. The OME Virtual Library shall be installed in two releases, with each release meeting schedule and requirements identified in Sections 5.1.2.2 and 5.1.2.3.

5.1.2.1 Prior to starting work on Release 1 of the OME Virtual Library, the Contractor shall:

- a) Develop, submit to the CO and receive CO approval for a library organization structure and taxonomy
- b) Evaluate LaRC Opentext Livelink® and aeroCOMPASS document management products and present findings and recommendations for use to the CO. The products shall be evaluated against the Government's OME Virtual Library requirements identified in Sections 5.1.2.2 and 5.1.2.3 to determine the degree to which these products meet the requirements stated below and would be viable tools for Government use.

5.1.2.2 As of the **contract implementation date**, the Contractor shall install and make available for Government use, OME Virtual Library, Release 1. OME Virtual Library Release 1 shall at a minimum meet the following requirements:

- a) Posting and retrieval of multiple document formats (e.g. Microsoft Word and Excel, PDF, AutoCAD) documents

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- b) Creation and ownership of document libraries by the Government with ownership and control assigned to "library owners"
- c) Rapid search and retrieval of documents. Allow for the entry of multiple search criteria including, but not limited to, one or more keywords, all or a portion of the title, project number, date or date range generated, owner, and/or category
- d) Document security at both the group and user (individual) level and down to the
- e) Document version control
- f) Links to other LaRC document repositories (e.g. FCMOL. Facility Libraries (Reference Section 4.1.7), LaRC Technical Library)

5.1.2.3 Within 6 months following the installation of the OME Virtual Library Release 1, the Contractor shall install and make available for Government use, a second release of the OME Virtual Library. OME Virtual Library Release 2 at a minimum meet the following additional requirements:

- a) Document workflow; electronic routing and approval
- b) Transfer or sharing of ownership down to the document level
- c) Communicate posting of and changes to documents to impacted customers via system-generated email. The OME Virtual Library shall issue an automated email to report to submittal owners when reports and submittals are posted. The email contents shall contain a link that will take the report owner directly to either a single report (if only one) or to a web page containing a list of available reports (if more than one).
- d) Document check-in and checkout
- e) Track late report submittals and communicate, via email, late deliveries to the Government report owner. Access to all late delivery information shall be limited to Government personnel designated by the COTR.
- f) Incorporate all CO approved modifications resulting from customer feedback pertaining to the OME Virtual Library, Release 1.

5.1.2.4 As of the **contract implementation date**, the Contractor shall also install and maintain an electronic schedule of reports and submittals in the OME Virtual Library. The schedule shall be organized by function(e.g. OME&IT), report owner and title, project number and title, delivery schedule (e.g. daily, monthly, semiannual) last date of delivery and next scheduled date of delivery. The Contractor shall automate the maintenance of the schedule, last delivery date and next date of delivery shall change as reports and submittals are posted. Manual manipulation of these dates by the Contractor is not acceptable.

5.1.2.5 The Contractor shall submit to the CO and COTR a Quarterly Accounting of Report Use broken down by report and submittal title, owner, and number of times the document is accessed.



5.1.3 OME Enterprise Information Portal (OME EIP)

The Contractor shall install and make available for use by the Government, an OME Enterprise Information Portal (EIP). The OME EIP shall be a single point of entry for all OME IT Business Systems (Reference Appendix 5.1). It shall remain inside the LaRC firewall, accessible only from machines utilizing the NASA IP address space and CO authorized off-site machines. The OME EIP shall be installed in two releases, with each release meeting schedule and requirements identified in Sections 5.1.3.1 and 5.1.3.2.

5.1.3.1 Within 6 months from the **contract implementation date**, the Contractor shall install and make available for Government use, OME EIP, Release 1. OME EIP Release 1 shall at a minimum meet the following requirements:

- a) Provide a single gateway to OME IT Business Systems and services
- b) Provide an interface to gather and process feedback from customers (Reference Section 1.4.1, Customer Services Management)
- c) Provide quick look-up for TC/SR/WO/TO
- d) Provide a search capability utilizing LaRC Verity® search product
- e) Provide a quick look-up directory of OME service POC
- f) Provide a means to communicate OME related information and news to customers.
- g) Integrate the interfaces of the Section 5.1 systems (WoRTS, OME Virtual Library, IT Configuration Management System) into the EIP; resulting in an "oneOME" look
- h) Ensure the secure distribution of documents and content. Security requirements will range from public (outside the LaRC firewall), controlled Lightweight Data Access Protocol (LDAP) authentication, to LaRC-only (internal to the firewall)
- i) Provide an intuitive and easy to learn interface; formal training shall not be required in order to use the system. Navigation shall remain consistent in placement and design throughout the site. Customers shall be able to complete required tasks and find content easily

5.1.3.2 Within 6 months following the installation of the OME EIP Release 1, the Contractor shall install and make available for Government use, a second release of the OME EIP. OME EIP Release 2 shall at a minimum meet the following additional requirements:

- a) Integrate the interfaces of OME IT Business web sites listed in Appendix 5.4. OME IT Business Systems, Web Sites, resulting in an "oneOME" look.
- b) Install a master schedule of facility maintenance, tunnel operations and engineering and IT projects. The schedule shall give clear indication of overlapping tasks, notifying facility managers of potential interruptions of tunnel operations. Schedule contents shall be pulled from the aeroCOMPASS STORM

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module (operations scheduling), Microsoft Project (engineering and IT scheduling), and MAXIMO (facility maintenance scheduling).

- c) Incorporate all CO approved modifications resulting from customer feedback pertaining to the OME EIP, Release 1.

### 5.1.4 IT Configuration Management System (IT-CMS)

Within 1 year from the **contract implementation date**, the Contractor shall validate the OME IT Business Systems hardware and software inventory contained in Appendix 5.1, OME IT Business Systems. The inventory shall identify product, version, location, ownership, usage information, licensing and maintenance management, status of planned upgrades, and residency in an existing configuration management product. The Contractor shall post the inventory to the OME Virtual Library.

5.1.4.1 **Within** 18 months from the **contract implementation date**, the Contractor shall install and make available for use by the Government, an IT Configuration Management System (IT-CMS). The IT-CMS shall ensure the integrity of the products and manage the risk associated with changing product components. The IT-CMS shall, at a minimum, meet the following requirements.

- a) Gather and process customer change request
- b) Identify change risk
- c) Document testing procedures for software systems and components
- d) Maintain a current inventory of hardware and software products and versions and their supporting documentation

5.1.4.2 The Contractor shall continue to maintain current business IT-CMS products and support the Government's CM initiatives until such time the IT-CMS is available for use and OME IT business products are migrated to it. The Contractor shall take these products into consideration when proposing a CMS product.

### 5.1.5 Hardware Consolidation

Within 1 year of the **contract implementation date**, the Contractor shall move all hardware hosting the OME IT Business Systems into a single on-site location. Prior to the move and within two months from the **contract implementation date**, the Contractor shall coordinate with the Government to identify and agree upon the most suitable on-site location (building and room). Within 6 months from the **contract implementation date**, the Contractor shall develop and submit a Hardware Consolidation Plan to the CO for review and approval. Upon CO approval the Contractor shall proceed with the consolidation.

## **5.2 SYSTEM CONSOLIDATION AND ENTERPRISE ARCHITECTURE**

The Contractor shall enhance the performance and usability of the *Government's OME IT Business Systems* (Reference Appendix 5.1) through consolidation of existing technology, integration with IFMP products, and development of an OME Enterprise Architecture (EA). The Contractor shall utilize project management techniques and methodologies to complete the Consolidation/EA project and shall also integrate the Consolidation/EA project into the OME IT 3-year Technology Improvement Plan (Reference Section 5.3.15). The Contractor shall ensure the resulting architecture and product set does not result in a single monolithic system, but rather a consolidation of existing IT assets, coupled with new technologies that can be acquired and maintained at a reasonable cost.

5.2.1 The Consolidation/EA project shall address improvements in the following areas:

- a) Precision and availability of OME costs and Contract workforce hours and operational costs at various operational (e.g. Center, facility) and consolidated levels
- b) Tracking actual expenditures against budgeted items
- c) Tracking, organization, and availability of documents resulting from OME products and services
- d) OME schedule consolidation in order to minimize interruptions to wind tunnel facilities
- e) Precision and availability of the Wind Tunnel Service Activity (WTSA), Facility and Related Service Activity (F&RSA) and other service pool's accounting information
- f) Projections for future facility needs, costs, or test usage requirements
- g) Improved data quality and reduction or elimination of duplicate data entry functions

5.2.2 The EA shall allow the Government to effectively and efficiently support OME daily business services, improve the accuracy and timeliness of their accounting practices, manage facilities across LaRC, and provide quality information in a timely manner in support of LaRC business strategies and executive information management needs. Through consolidation, best use of existing standards and commonalities among existing OME IT business products, and the introduction of new technologies, the Contractor shall create and IT synergy that is lacking in the current IT structure. In addition, the OME EA shall be compatible with NASA's Enterprise Architecture.

5.2.3 The Contractor shall align OME IT with the goals and objectives of the RFMO organization and provide LaRC with a robust toolset that will deliver value to the organization. The Contractor shall achieve the following OME Consolidation/EA project goals:

- a) A clear understanding of OME business and IT goals and objectives by the Government and the Contractor including a documented IT governance strategy

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- b) Improve the quality, accuracy, and timeliness of OME financial reporting
- c) Improve the availability and accessibility of IT assets while preserving required information security
- d) Improve the quality and timeliness of communications between IT personnel and customers especially in the area of responding to customer problems and change requests
- e) Improve data exchange between OME IT systems other Center and NASA IT systems (e.g. IFMP, NASA Equipment Management Systems (NEMS))
- f) Improve the usability, presentation, and organization of IT interfaces and information
- g) Reduce the time and cost for IT to implement changes resulting from OME business changes and customer requests
- h) Improve the processes for introducing, evaluating and managing IT change

5.2.4 Within 6 months from the **contract implementation date**, the Contractor shall develop a consolidation/EA Software Project Management Plan (SPMP) in accordance with LMS-CP-5528, *Software Planning Development Acquisition, Maintenance and Operations*, and LMS-CP-5529, *Software Configuration Management Planning for Low-, High-, and Critical Control Software*. The Contractor shall augment the SPMP to include measurable project objectives for the project goals identified in Section 5.2.3, a project schedule which shall include the project completion metrics stated in Section 5.2.5, project deliverables, required purchases and infrastructure changes, a security assessment, prototype designs, and product acceptance test plans. The Contractor shall deliver the SPMP to the CO for review and approval. In addition the Contractor shall also perform the following as required during the Consolidation/EA project:

- a) Modify the SPMP as necessary throughout the project. The Contractor shall present all SPMP modifications to the CO for review and approval prior to performing the modifications
- b) Initiate and conduct all meetings (e.g. scheduling, handouts, logistics) pertaining to the Enterprise Architecture
- c) Develop, maintain, and manage all documentation associated with the project; documents shall be posted to the OME Virtual Library
- d) Conduct studies, perform cost analysis, and produce white papers and business cases as required to support the project and validate the Government's return on investment
- e) Present project status and perform product demonstrations to Government organizations as needed
- f) Integrate, update, and procure technologies necessary for the consolidation/EA project
- g) Provide marketing, change management, and customer awareness services
- h) Provide customer support, training and consultation

5.2.5 The Contractor shall complete the Consolidation/EA within 4 years from the **contract implementation date**. In addition the Contractor shall complete 25% of the project within 1.5 years from the **contract implementation date** and complete 50% of

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the project within 2.5 years of the **contract implementation date**. The Contractor shall be the lead architect for the OME Consolidation/EA project and shall provide the business and technical expertise required to manage the project, facilitate communication, manage the resulting change among customers, and implement and support all resulting technology.

### **5.3 GENERAL SUPPORT SERVICES**

General information technology (IT) support services are defined as the recurring and routine services applicable to supporting the OME IT Business Systems. The Contractor shall perform these services in order to maximize operational and functional efficiency, maintain data quality and security, and minimize interruptions to IT products and services. The Contractor shall provide all management, technical and customer service skills required to accomplish General Support Services.

The Contractor shall provide long-term support for all new and/or upgraded products and services resulting from work performed with in Sections 5.1, 5.2, and 5.4 under Section 5.3. The Contractor shall improve the quality of technology performance and help the Government make best use of its available technologies. The Contractor shall recommend areas of improvement during technology reviews (Reference Section 5.3.14).

The Contractor shall deliver the reports listed in Appendix 1.9 as designated in the Appendix.

The Contractor shall operate and support the OME IT Business Systems during LaRC normal business hours (Reference Section 1.3.9). aeroCOMPASS, INFO-PC, FCMOL, and CMMS are critical systems and therefore shall be supported 24 hours, 7 days per week.

#### **5.3.1 IT Administrative Services**

The Contractor shall provide information technology administrative services for the OME IT Business Systems, including but not limited to system administration, database administration, web administration and application environment administration. The Contractor shall integrate administrative support of the OME IT Business System's hardware, software and databases and ensure no adverse impact to the overall performance of the OME IT Business Systems occurs. The Contractor shall also coordinate with the Outsourcing Desktop Initiative for NASA (ODIN) contractor to ensure OME systems do not adversely impact the performance of LaRC network.

5.3.1.1 The Contractor shall provide system administrative services including, but not limited to, operating systems; the native file system; distributed file systems such as the Network File System (NFS) and the Distributed File System (DFS) under the Distributed

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Computing Environment (DCE); system and user command suites that normally accompany the release of an operating system, and the development of scripts to improve system functionality or enhance system operation or performance.

In addition to any other requirements of this contract, all individuals who perform tasks as a system administrator or have authority to perform tasks normally performed by system administrator shall be required to demonstrate knowledge appropriate to those tasks. This demonstration, referred to as the NASA System Administrator Security Certification, is a NASA funded two-tier assessment to verify that system administrators are able to -

- a) Demonstrate knowledge in system administration for the operating systems for which they have responsibility.
- b) Demonstrate knowledge in the understanding and application of Network and Internet Security.

Certification is granted upon achieving a score above the certification level on both an Operating System test and the Network and Internet Security Test. The Certification earned under this process will be valid for three years. The criteria for this skills assessment has been established by the NASA Chief Information Officer. The objectives and procedures for this certification can be obtained by contacting the IT Security Awareness and Training Center at (216) 433-2063.

A system administrator is one who provides IT services, network services, files storage, web services, etc. to someone else other than themselves and takes or assumes the responsibility for the security and administrative controls of that service or machine. A lead system administrator has responsibility for Information Technology Security (ITS) for multiple computers or network devices represented within a system; ensuring all devices assigned to them are kept in a secure configuration (patched/mitigated); and ensuring that all other system administrators under their lead understand and perform ITS duties. An individual that has full access or arbitrate rights on a system or machine that is only servicing themselves does not constitute a "system administrator" since they are only providing or accepting responsibility for their system. An individual that is only servicing themselves is not required to obtain a System Administrator Certification.

5.3.1.2 The Contractor shall provide system database administrative services, including, but not limited to, database engine software, data models, upgrades and the installation of new databases and elements that allow for information to be modified and extracted from the databases. The Contractor shall ensure the efficiency and reliability of multiple database engines through proactive monitoring procedures, quality management of disk space allocations, performance of consistency checking, and monitoring logical and recovery logs. Based on the configuration of the file server and the existing and projected database workload, the Contractor shall configure the database engine to optimize performance of database applications while minimizing effects on the rest of the file-server workload. The Contractor shall ensure database

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availability for nightly data loads from external systems identified in Appendix 5.1. The Contractor shall also maintain a comprehensive repository of database information in the OME Virtual Library, including but not limited to, a current copy of data models, a list of database owners and corresponding contact information, security information, and all licensing and maintenance information.

5.3.1.2.1 The Contractor shall install solutions for connecting to IT business database engines on Government OME desktop machines. These solutions will include the use of open database connectivity (ODBC) and database client tools. The Contractor shall provide user training in the installation and configuration of these connections as needed.

5.3.1.3 The Contractor shall provide web administrative services including, but not limited to, web server software, web development products and libraries, remote connectivity services, script processing, and the development and maintenance of web sites. The Contractor shall maintain the web sites and interfaces listed in Appendix 5.4, *OME IT Business Systems, Web Sites*.

5.3.1.4 The Contractor shall provide application environment administrative services, including, but not limited to, OME Business Systems application development and production software, and third-party server and client products supporting the functionality and/or development of OME IT Business Systems. The Contractor shall also install and test new application environments at the request of the CO.

### 5.3.2 Application Management

The Contractor shall manage and operate the OME IT Business Systems. The Contractor shall ensure the services provided by the systems are not interrupted and the systems perform as designed. The Contractor shall modify the OME IT Business Systems to conform to changes in hardware and software infrastructure, comply with new policy or guidelines impacting design and/or performance, correct data, correct software errors and/or enhance or improve the functional capability of the application. The Contractor shall also modify system interfaces, generate reports, and/or extract data as requested by the Government through IT Service Requests (Reference Section 5.3.13).

5.3.2.1 The Contractor shall optimize the performance, execution, and security of the applications through database and system tuning, management of access privileges, optimal use of triggers and stored procedures, data modeling, and data base design and structure. The Contractor shall assess the impact of system hardware, software, and Database Management Systems (DBMS) modifications to application performance and customer usage needs prior to scheduling and implementing modifications. The Contractor shall also ensure accurate and correct performance of applications following all modifications.

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5.3.2.2 The Contractor shall develop and practice procedures that ensure the accuracy and quality of the data collected through or loaded into the OME IT Business Systems. The Contractor shall enter or load data as required for routine system support.

5.3.2.3 The Contractor shall plan and manage the evolution of the OME IT Business Systems. The Contractor shall present to the CO recommendations for product upgrades, service improvements and solutions to user requirements or CO requests. The Government will issue IT Service Requests (Reference Section 5.3.1.3) to support all actions and initiatives resulting from Contractor recommendations.

5.3.2.4 All documentation, data, and commercial and Contractor developed or procured software, shall be owned by the Government and shall reside on Government-owned computers. Exceptions shall require written permission from the CO.

### 5.3.3 Hardware Management

The Contractor shall manage the hardware listed in Appendix 5.1, *OME IT Business Systems* and Appendix 5.2, *OME IT Business Systems, RFMO Research Desktop Systems*. The Contractor shall repair and/or replace hardware components as necessary to ensure operability of the covered equipment or to return the covered equipment to a fully operational status. The Contractor shall minimize repair or replacement time caused by hardware failures. The Contractor shall perform all repairs on-site unless otherwise approved by the CO. The Contractor shall communicate the impact of the failure to affected customers within 30 minutes of completing the repair.

5.3.3.1 The Contractor shall monitor hardware performance and diagnose hardware problems or failures. The Contractor shall log all repairs into the IT Services Log (Reference Section 5.3.8.1) and communicate on-going repair status to the customer until the repair is complete and operations are restored to their pre-failure performance levels. Repair or replacement parts shall meet or exceed Original Equipment Manufacturer's standards.

5.3.3.2 The Contractor shall follow LaRC procedure, LMS-CP-5550, "Cleaning and Excess of Computer Hard Drives", when excessing components containing sensitive data.

5.3.3.3 The Contractor shall reload or restore any files and/or data that are contained on a replaced or failing component. The Contractor shall verify the system meets or exceeds the performance of the system prior to system failure.

5.3.3.4 The Contractor shall use LaRC internal network (LARCNet), without modification or enhancement unless the CO's written approval is obtained. The Contractor shall provide a high-speed data link (minimum T-1 capability) to connect the Contractor's offsite facility to the Government's LaRCNET Local Area Network (LAN) if off-site equipment is required. The data line shall be Ethernet compatible.



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### 5.3.4 Account Management

The Contractor shall manage all system, database, and application software individual and group accounts, to ensure the proper level of access control to the applications, data, and systems are maintained. The Contractor shall issue user accounts and passwords following the procedures set forth by the NASA system owner and in compliance with NPG 2810.1, *Security of Information Technology*.

5.3.4.1 The Contractor shall maintain an electronic list of active and disabled accounts by component (e.g. system, database, DBMS, and application) in the OME Virtual Library. The Contractor shall make the list available only to personnel designated by the CO.

### 5.3.5 Updates and Upgrades

The Contractor shall monitor the availability of updates and/or upgrades for supported equipment and software and the availability of new equipment and system software. The Contractor shall interface with vendors to obtain software patches and procure software and/or hardware updates and upgrades from vendors.

5.3.5.1 The Contractor shall recommend hardware and/or software updates and/or upgrades, taking into consideration cost, schedule, performance, other system components, and the impact on other service elements and users of the system. The Contractor shall present recommendations to the CO for review and approval prior to installing any hardware and/or software. The Contractor shall conduct complete and thorough testing to ensure all OME IT Business Systems perform as anticipated following updates and upgrades. The Contractor shall record all updates and upgrades in the IT Services Log (Reference section 5.3.8.1)

5.3.5.2 The Contractor shall minimize system downtime due to the installation of upgrades and updates. When feasible, the Contractor shall perform upgrades and updates outside of Normal Operating Hours. The Contractor shall inform impacted customers of scheduled system upgrades and improvements at least 2 business days prior to their occurrence and ensure system downtime does not adversely impact customer requirements for systems access.

### 5.3.6 Performance Monitoring and Backup/Restore Services

The Contractor shall minimize interruptions to the OME IT Business Systems. The Contractor shall monitor systems and web sites using automated monitoring and notification technologies in order to identify service interruptions, degradation in performance, security breaches, and/or loss of functionality. In the event of an

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interruption, degradation, or breach, the Contractor shall diagnose the problem, assess the impact, identify repair requirements, and identify any loss of data or reduction of data quality. The Contractor shall categorize the situation as emergency or urgent and initiate a TC (Reference Section 5.3.12). The Contractor shall notify impacted customers and the CO within 1 hour of detection, and record the incident in the IT Services Log (Reference Section 5.3.8.1)

5.3.6.1 The Contractor shall backup and restore the OME IT Business Systems (e.g. system files, databases, documents). Backup and restore requirements are stated in the system's IT Security Plan and/or Disaster Recovery Plan. If the system does not have a plan or the plan does not address backup requirements, backups shall occur daily unless otherwise indicated in Appendix 5.1, OME IT Business Systems. Following any restore, the Contractor shall verify the restored component (e.g. system, database, document) meets or exceeds the performance and data quality of the component prior to failure. The Contractor shall maintain schedule of system and database backups in the OME Virtual Library. The Contractor shall identify backup and restore failures and/or problems at the weekly IT Status Meetings.

5.3.6.2 The Contractor shall archive and restore the database instances and logical logs. The Contractor shall ensure no data loss, and that hardware, software, and processes function as documented and data quality and integrity is maintained. The Contractor shall conduct semiannual archive and restore tests and post the results of the tests to the OME Virtual Library within 5 days following their completion.

5.3.6.3 The Contractor shall mirror the FCMOL and CMMS systems. In the event of a failure, the Contractor shall restore the system to full system functionality within 1 hour. Data shall be current as of the time of failure and utilization of the mirrored system shall require no action or reconfiguration by OME customers. Within 30 days from the **contract implementation date**, the Contractor shall perform an initial demonstration of the mirroring capability. Following the initial demonstration the Contractor shall conduct an annual demonstration of the capability.

### 5.3.7 Policy and Guidelines

The Contractor shall maintain OME IT Business Systems in accordance with the following policy and guidelines:

- a) NPG 2810.1, *Security of Information Technology*
- b) LMS-CP-5909, *Development, Review and Maintenance of Web Sites in the LaRC Domain*
- c) *NASA Internet Publishing Guidelines for Public Information*, published November 2001
- d) *Privacy Policies and Data Collection of Federal Web Sites*, published June 1999
- e) NPG 2800.1, *Managing Information Technology*
- f) NASA-STD-2804G, *Minimum Interoperability Software Suite*

5.3.7.1 Within 2 months from the **contract implementation date**, the Contractor shall develop a schedule for an Annual Policy and Guideline Compliance Review of the OME IT Business Systems. The Contractor shall initiate and conduct Annual Policy and Guideline Compliance Reviews of all OME IT Business Systems. In addition, the Contractor shall also assess the impact of new and/or updates to Government policy and guidelines within 30 days of their release. The Contractor shall present review findings to the CO and also post findings to the OME Virtual Library within 10 days following the completion of the review. The CO will issue IT Service Requests (Reference Section 5.3.13) to support actions and initiatives resulting from Contractor review findings and recommendations.

5.3.7.2 Prior to accessing the OME IT Business Systems, the Contractor shall successfully complete the NASA Basic IT-Security Awareness training. The Government will provide the Contractor access to the IT Security Awareness Computer Based Training Program available through the NASA SOLAR web site (<https://solar.msfc.nasa.gov/>). The Contractor shall post the NASA security training certificates resulting from the training to OME Virtual Library and shall continue to participate in NASA's annual IT-Security Awareness Training program. On June 1<sup>st</sup> of each year, the Contractor shall report to the CO the number of Contractor employees required to complete NASA's annual IT-Security Awareness Training Program and the actual number of Contractor employees successfully completing the program. The Contractor shall justify less than a 100% Contractor employee participation rate and shall present to the CO a solution to remediate Contractor employee participation problems and achieve the metric.

5.3.7.3 Within 30 days from the **contract implementation date**, the Contractor shall post and maintain a list of System Security Administrators (SSA) for each OME IT Business System to the OME Virtual Library. The SSA shall perform all duties and responsibilities in compliance with NPG 2810.1

5.3.7.4 Within 30 days from the **contract implementation date**, the Contractors shall develop an IT System Security Plan in accordance with LMS-CP-5517, *Conducting a Risk Assessment and Preparing the Information Technology System Security Plan* for the following Contractor-owned computer systems. The Contractor shall deliver the plan to the CO for review and approval. This plan shall identify:

- a) Contractor-owned computer systems supporting work on this contract and utilizing the NASA IP address space
- b) Contractor-owned computer systems supporting work on this contract and connected to a Contractor-owned network that exists primarily to support NASA work at LaRC.

5.3.7.5 The Contractor shall review IT System Security Plans in accordance with NPG 2810.1 for both Contractor-owned (5.3.7.4) and the Government-owned machines identified below. The Contractor shall present review findings to the CO and also post

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findings to the OME Virtual Library within 30 days following the completion of the review. The CO will issue IT Service Requests (Reference Section 5.3.13) to support actions and initiatives resulting from Contractor review findings and recommendations.

- a) Government-owned computer systems hosting the OME IT Business Systems (Reference Appendix 5.1, *OME IT Business Systems*)
- b) Government-owned OME desktop machines (Reference Appendix 5.2, *OME IT Business Systems, RFMO Research Desktop Systems*)

5.3.7.6 Within 30 days from the **contract implementation date**, the Contractor shall develop a Contractor IT–Security Implementation Plan (Reference Appendix 5.6, *IT Security Implementation Plan Outline*) for the following Contractor-owned computer systems. Following its initial publication, the Contractor shall conduct an annual IT-Security Implementation Plan review and present the finding to the CO. The Contractor shall correct all findings within 30 days following the review:

- a) Contractor-owned computer systems supporting work on this contract and utilizing the NASA IP address space (in addition to the IT System Security Plan specified in Section 5.3.7.4)
- b) Contractor-owned computer systems supporting work on this contract and connected to a Contractor-owned network that exists primarily to support non-NASA work

5.3.7.7 The Contractor shall post all of the Government's IT System Security Plans (Reference Sections 5.3.7.4 and 5.3.7.5) and the Contractor's IT-Security Implementation Plan (Reference Section 5.3.7.6) to the OME Virtual Library. Access to the plans shall be granted only with the written approval to the CO.

5.3.7.8 Contractor computers outside the NASA IP address space shall connect to the NASA IP address space via the LaRC Virtual Private Network (VPN). The Government will sponsor Contractor VPN accounts as required by the contractor in performance of their official contract duties. VPN accounts shall be granted to United States citizens only.

5.3.7.9 The Contractor shall assess damage from security threats and breaches within 30 minutes of detection, resolve within 1 hour of detection, and document in the IT Services Log (Reference Section 5.3.8.1) within 1 day of detection. The Contractor shall report all security threats and breaches to the CO and the LaRC Computer Security Office via telephone and/or encrypted email within 2 hours of detection.

### 5.3.8 IT Documentation

The Contractor shall develop and maintain IT documentation including, but not limited to, documentation for commercial products, reports, procedures, logs, schedules, plans,

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meeting minutes and actions, licensing and maintenance agreements. The Contractor shall post all documents to the OME Virtual Library and notify the CO of their delivery.

### 5.3.8.1 IT Services Log

Within 30 days from the **contract implementation date**, the Contractor shall install and maintain an IT Services Log. In addition to the usage requirements identified in Section 5.0 through 5.4, the IT Services Log shall contain, at a minimum, a record of service and system interruptions, scheduled maintenance and upgrades, hardware replacements, upgrades, disposal, and security breaches and threats. The log shall be searchable via keyword entry and shall provide the capability to append comments to log records.

### 5.3.8.2 IT Operational Procedures

Within 1 year from the **contract implementation date**, the Contractor shall create/update and maintain operational procedures addressing the support areas identified below. The Contractor shall utilize existing procedures, writing new procedures only when either none exist or the current procedures are obsolete. Following the CO's review and approval of the documents, the Contractor shall, within 30 days, deliver final versions of the procedures to the CO. The Contractor shall initiate and conduct an annual review of the procedures and present findings to the CO. The Contractor shall support Government actions and initiatives resulting from Contractor findings. The Contractor shall maintain procedures that at a minimum address:

- a) System Administration
- b) Database Administration
- c) IT Security Management
- d) IT Hardware Management
- e) IT Application Management
- f) IT Configuration Management
- g) IT Application Testing Procedures
- h) Mirroring of FCMOL and CMMS Systems

### 5.3.8.3 Licensing and Maintenance Agreements

The Contractor shall manage all licensing and maintenance agreements pertaining to this contract for the Government. Within 6 months from the **contract implementation date**, the Contractor shall create and maintain an inventory of all licensing and maintenance agreements pertaining to the OME IT Business Systems. The inventory list shall include, but is not limited to, hardware and software products, vendor contract information, supported applications and systems, date and costs of renewal. The Contractor shall notify the CO of all renewal deadlines and costs and provide the CO with a copy of all documentation required to accomplish the renewal. Subject to the availability of funds, the Government will fund all necessary maintenance and licensing renewal costs. In addition, within 6 months from the **contract implementation date**,

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the Contractor shall also synchronize the renewal dates for all licensing and maintenance agreements so that all renewals occur during the month of February. The Contractor shall ensure all current and future maintenance and licensing agreements adhere to the February renewal schedule.

### 5.3.8.4 IT Master Schedule

Within 3 months from the **contract implementation date**, the Contractor shall develop and maintain an IT Master Schedule using Microsoft Project. The schedule shall be used by the Government to track progress on IT integration and projects, and determine the optimal time to perform routine operations or planned service interruptions. The IT Master Schedule shall include but is not limited to:

- a) Consolidation/EA project schedule (Reference Section 5.2)
- b) Policy and guideline review schedule (Reference Section 5.3.7)
- c) System and Database Backups (Reference Section 5.3.6)
- d) Technology Review Schedule (Reference Section 5.3.14)
- e) Technology Improvement Plan Schedule (Reference Section 5.3.15)
- f) Project Schedules (Reference Sections 5.1 and 5.4)

### 5.3.8.5 IT Documents and Software Library

Within 6 months from the **contract implementation date**, the Contractor shall create and maintain a central IT Library of IT-related hardcopy documents and software media. The Contractor shall maintain an electronic register of the IT-Library contents. At a minimum, the register contents shall be searchable by keywords, media title, media category (e.g. database, asset management, configuration), and media owner.

### 5.3.9 Configuration Management

The Contractor shall provide Configuration Management (CM) for the OME IT Business Systems. The Contractor shall utilize the current CMS products identified in Appendix 5.1, *OME IT Business Systems*, until such time the IT Configuration Management System (IT-CMS) is installed (Reference Section 5.1.4, 18 months from **contract implementation date**). Within 6 months following the installation of the IT-CMS, the Contractor shall complete the migration of OME IT Business Systems into the IT-CMS. The Contractor shall perform CM services in compliance with LMS-CP-5529, *Software Configuration Management Planning or Low-, High-, and Critical-Control Software*. The Contractor shall:

- a) Gather, process, and respond to customer change requests for the OME IT Business Systems
- b) Identify risk and impact associated with change requests
- c) Maintain testing procedures for software systems and components
- d) Maintain a current inventory of hardware and software products and versions

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- e) Provide CM technical support including, but not limited to, retrieval and delivery of CM-related documents and data, facilitate CM approval of documents, and CM document and data quality review services

5.3.9.1 The Contractor shall participate on the CMMS Software Configuration Control Board (SCCB) and the DAS Software Configuration Management and Change Requirement Software Configuration Control Board.

### 5.3.10 Consultation and Training

The Contractor shall provide IT consultation and training and shall utilize the Customer Services Management Center (CSMC) (Reference Section 1.4.1) to coordinate and manage customer requests for these services. The Government will issue Trouble Calls (TC) and Service Requests (SR) to request these services. IT consultation and training services shall include, but are not limited to:

- a) Assistance on basic product use including self-help interfaces
- b) Design, develop, revise and distribute training materials
- c) Schedule classes, register students (using the LaRC online registration system <http://class.larc.nasa.gov>), arrange class logistics, market classes to targeted audiences, validate training effectiveness, and provide information for input into Government student records
- d) Design, develop, and support Computer Based Training (CBT) as appropriate
- e) Assist the Government in defining training requirements and recommending commercial and/or contractor training courses to satisfy the requirements
- b) Participate on Government teams and working groups as requested by the CO
- c) Provide on-site customer visits to discuss requirements for new, or upgrades to, existing OME contract related products and/or services

### 5.3.11 Research Desktop System Administration

The Contractor shall provide desktop support for the research desktop systems listed in Appendix 5.2, *OME IT Business Systems, RFMO Research Desktop Systems*. Research desktop system administration support includes, but is not limited to, resolving software and/or hardware problems, installation of client software and/or hardware, backups and restores, and upgrades to software and/or hardware. The Contractor shall maintain research desktop systems in accordance with NASA-STD-2804G, *Minimum Interoperability Software Suite*. The Government will issue IT Service Requests (Reference Section 5.3.13) to communicate the work requirements to the Contractor.

5.3.11.1 The Government may also require the Contractor to provide system administrative support for RFMO research desktop systems not listed in Appendix 5.2 through the issuance of a WO/TO.

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### 5.3.12 IT Trouble Calls

The Contractor shall respond to and support work resulting from IT Trouble Calls (TC). During normal business hours, the Contractor shall begin work on emergency TC within 30 minutes of TC receipt. Outside of the normal business hours, the Contractor shall begin work on emergency TC within 2 hours of TC receipt. For TC other than emergency, the Contractor shall make contact with customers initiating a TC within 1 business hour of receipt of the initial call to advise the customer regarding a plan of action to complete the TC. (Reference Section 5.3.12.2). Trouble calls shall be issued to:

- a) Resolve actual OME work stoppages caused by a loss of OME IT Business System functionality
- b) Resolve potential OME work stoppages caused by degradation in the performance of the OME IT Business Systems
- c) Resolve IT problems that place LaRC personnel or IT resources at risk

5.3.12.1 In the event of a work stoppage, the Contractor shall provide immediate work-arounds to bring the OME IT Business Systems back online and to performance levels existing prior to any problems. The Contractor shall communicate the impact of the service loss and repair to affected customers within 1 hour following service restoration and shall apply permanent repairs, if required, outside of LaRC's normal business hours (Reference Section 1.3.9).

5.3.12.2 TCs exceeding the IT trouble call limit shall require the Contractor to submit a written proposal for work to the CO. The proposal shall include a statement of work, assessment of impact, cost estimate, and a proposed schedule to complete the work. The Contractor shall obtain CO approval prior to performing and/or proceeding with the work.

### 5.3.13 IT Service Requests

The Contractor shall respond to and support work resulting from IT Service Requests (SR). The Contractor shall respond to customers initiating the SR within 4 business hours and complete the SR either within the SR limit or within the proposed schedule and cost should the SR limit be exceeded (Reference Section 5.3.13.1). SR work shall include, but is not limited to, the following:

- a) Report development
- b) Data extraction and correction
- c) Minor system changes and software bug repairs
- d) Policy compliance reviews
- e) Desktop support for machines listed in Appendix 5.2, *OME IT Business Systems*.  
*RFMO Research Desktop Systems*
- f) Customer training



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### g) Customer consultation

5.1.13.1 SR exceeding the service request limit shall require the Contractor to submit a written proposal for work to the CO. The proposal shall include a statement of work, assessment of impact, cost estimate, and proposed schedule to complete. The Contractor shall obtain CO approval prior to performing and/or proceeding with the work.

### 5.3.14 Technology Reviews

The Contractor shall monitor emerging technologies and industry best practices and recommend to the CO possible infusion into or replacement of existing technologies, business processes and procedures, and/or the installation of new technologies or processes. The Contractor shall also review the Government's use and the configuration of the OME IT Business Systems and present recommendations for improvement to the CO. The Government will issue IT Service Requests (Reference Section 5.3.13) to support actions and initiatives resulting from Contractor recommendations.

5.3.14.1 The Contractor shall initiate, coordinate and present 2 Technology Reviews per FY to the Government. At the reviews the Contractor shall provide handouts, present recommendations, facilitate discussion, and record minutes and actions. The Contractor shall accompany all finding recommendations with a description, statement of added value, assessment of industry best practices, cost and schedule, risk assessment, and an assessment of impact to customers. Within 10 days following the Technology Review presentation, the Contractor shall post all documents associated with the review and the presentation to the OME Virtual Library. The Contractor shall track all actions resulting from the review until they are either completed or cancelled. The Government will issue IT Service Requests (Reference Section 5.3.13) and/or task orders (Reference Section 5.4) to support projects and/or initiatives resulting from Contractor recommendations.

### 5.3.15 Technology Improvement Plan

The Contractor shall develop and submit to the CO a 3-year Technology Improvement Plan by July 1<sup>st</sup> of each year. The Technology Improvement Plan shall address the current state of OME IT and a long-term strategy for improving products and services.

5.3.15.1 The Technology Improvement Plan shall include the following for the current reporting period. The current reporting period is defined as May 1<sup>st</sup> of the reporting year – 1 through April 30<sup>th</sup> of the reporting year.

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- a) A summary of customer feedback on IT products and services, highlighting strengths and weaknesses
- b) Identification of all Technology Plan strategies, highlighting those that were completed within projected schedule and cost
- c) A summary of Contractor accomplishments and progress on IT Goals and Objectives (Reference Section 5.0.2)
- d) A status on projects initiated and completed under Section 5.4
- e) A summary of new products and services resulting from Technology Reviews
- f) A detailed status on the Consolidation/EA project (Reference Section 5.2)

5.3.15.2 In addition, the Contractor shall address the following as part of the long-term (3 years out) strategy:

- a) Contractor recommendations to improve IT products, services and support including recommendations for the consolidation of existing services and products
- b) Contractor cost reduction and performance improvement strategies
- c) Assessment of pending and/or on-going IFMP actions and activity to OME IT Business Systems
- d) Cost projections to complete all work in the Technology Improvement Plan, broken down by work item and fiscal year

5.3.15.3 The Contractor shall tie all recommendations to the IT Business Goals and Objectives identified in Section 5.0.2. Each recommendation shall be accompanied by a strategy to implement it. The strategy shall not exceed 2 pages and shall include a statement of recommendation, goals and objectives, potential issues/problems, risk assessment, required purchases or development, and cost and schedule to implement. The Government will issue IT Service Requests (Reference Section 5.3.13) and/or task orders (Reference Section 5.4) to support projects and/or initiatives resulting from Contractor recommendations.

5.3.15.4 The CO may periodically request the Contractor to review the plan in order to respond to unplanned IT calls during a FY, new customer requirements or requests, or new technologies. The Government estimates one unplanned review per FY and will initiate the work through an IT Service Request (Reference Section 5.3.13).

5.3.15.5 Within 30 days following the delivery of the plan, the Contractor shall present the plan to the Government. At the presentation, the Contractor shall provide handouts, present recommendations, facilitate discussion, record minutes, and identify and track actions. The Contractor shall post all documents associated with the Technology Plan and the presentation to the OME Virtual Library.

## **5.4 INFORMATION TECHNOLOGY PROJECTS**

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Work Orders (WO) or Task Orders (TO) will be issued to the Contractor for pre-project planning, design, project management, and product development and delivery. Projects include, but are not limited to, requests for additional support services (Reference Section 5.3), technology upgrades and improvements, development services, support for Government actions and/or initiatives impacting the functionality or design of OME IT Business Systems and related services. All products installed by the Contractor shall be accessible and usable from user desktops through LaRCNet. The Contractor shall minimize the need to install unique hardware or software configurations, third party products or plug-ins.

### 5.4.1 Pre-Project Planning

Pre-project planning is the preliminary work required to accurately determine the requirements, cost and schedule for IT projects. Pre-project planning includes requirements definition, prototype designs, special studies, business cases, and the projection of cost and schedule. The CO may decide to by-pass pre-project planning for small projects if the work is clear and well defined in the WO/TO.

#### 5.4.1.1 Requirements Definition

The Contractor shall meet with the customer to identify and document requirements, schedule, and cost limitations. Customer meetings shall not exceed 4 hours without CO approval. Within 7 days following the customer meeting, the Contractor shall prepare a requirements document and submit to the CO and the customer for review and approval. The document shall, at a minimum contain the customer's requirements, estimated cost to complete the project, schedule, milestones and deliverables.

#### 5.4.1.2 Special Studies and Business Cases

The Contractor shall conduct studies; develop white papers and/or business cases. Prior to initiating work, the customer and the Contractor shall agree to a delivery schedule. The Contractor shall submit documents to the CO and customer for approval.

#### 5.4.1.3 Prototype Designs

The Contractor shall deliver prototype designs to the CO for review and approval. The designs shall provide a clear indication of presentation, navigation, and usability. Prior to initiating prototype design work, the customer and the Contractor shall agree to a delivery schedule.

### 5.4.2 Project Management

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The Contractor shall execute all projects in accordance with LMS-CP-5528. *Software Planning Development, Acquisitions, Maintenance and Operations*, and LMS-CP-5529. *Software Configuration Management Planning for Low-, High-, and Critical Control Software*. Within 20 days following the customer's approval of the requirements document (Reference Section 5.4.1.1), the Contractor shall deliver the Software Project Management Plan (SPMP) to the customer and the CO for review and approval. Prior to delivery, the Contractor shall augment the Software Project Management Plan (SPMP) to include the following items:

- a) Project goal and objectives
- b) Statement of added value
- c) Metrics and deliverables
- d) A narrative of project issues and/or problems requiring resolution prior to project start
- e) Cost estimate
- f) Required purchases
- g) Required infrastructure (software and hardware) changes
- h) Security assessment
- i) Test Plan
- j) Prototype designs
- k) Change management, marketing, and training plans
- l) Systems acceptance test plan, to include customer usability testing
- m) An impact assessment in regards to IFMP, the OME Enterprise Architecture (EA), and other OME IT business systems
- n) Projected partnerships with vendors or other LaRC and Government contractors

5.4.2.1 The Contractor shall complete and post all project documents to the OME Virtual Library within 7 days following product installation and/or service delivery. Documents shall be posted within a unique project repository in the OME Virtual Library. The Contractor shall survey the customer for satisfaction with Contractor performance, product performance and areas of strength and weakness. The Contractor shall review the survey results with the CO to identify areas of service and performance improvement.

### 5.4.3 Product Delivery

The Contractor shall deliver all products to the Government in accordance with the project's Software Project Management Plan (SPMP). Deviations from the SPMP shall require the CO's concurrence and a modification to the plan prior to performing work. The Contractor shall demonstrate products to the customer and the CO prior to its release. The Contractor shall facilitate recurring communication as needed with the CO and the customer until the project is complete. The Contractor shall minimize interference with or interruption of the OME production systems during all phases of the project.

# EXHIBIT B

## IDIQ RATES

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period One**

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	ICI before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	ICI		\$1.00		

**EXHIBIT B  
INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Two**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	TCI before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	TCI		\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Three**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofing, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
<b>APPLICATION BASE</b>					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
<b>INDIRECT RATES</b>					
Fringe Benefits	Labor		\$1.00		
Overhead	T.C.I. before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	T.C.I.		\$1.00		



**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Four**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	T.C.I. before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	T.C.I.		\$1.00		

**EXHIBIT B  
INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Five**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RMeans Labor Discount		Not Applicable	\$1.00		
RMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	F&C before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	F&C		\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Six**

Labor Escalation Rate: 0.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (> 10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMMeans Labor Discount		Not Applicable	\$1.00		
RSMMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	ICI before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	ICI		\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Seven**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
<b>APPLICATION BASE</b>					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
<b>INDIRECT RATES</b>					
Fringe Benefits	Labor		\$1.00		
Overhead	T.C.I. before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	T.C.I.		\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Eight**

Labor Escalation Rate 0.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (< 10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	TCI before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	TCI		\$1.00		

**EXHIBIT B  
INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Nine**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manger, Project (< 10 Years Experience)	Hr.		
36		Manger, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits		Labor	\$1.00		
Overhead		Before G&A	\$1.00		
Material Handling		Not Applicable	\$1.00		
Subcontract Handling		Not Applicable	\$1.00		
G&A		Before	\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Ten**

Labor Escalation Rate 5%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	J.C.I. before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	J.C.I.		\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Eleven**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits		Labor	\$1.00		
Overhead		F&C before G&A	\$1.00		
Material Handling		Not Applicable	\$1.00		
Subcontract Handling		Not Applicable	\$1.00		
G&A		F&C	\$1.00		



**EXHIBIT B**

**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Twelve**

Labor Escalation Rate 3.0%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits		Labor	\$1.00		
Overhead		TCI before G&A	\$1.00		
Material Handling		Not Applicable	\$1.00		
Subcontract Handling		Not Applicable	\$1.00		
G&A		TCI	\$1.00		

**EXHIBIT B**  
**INDEFINITE DELIVERY INDEFINITE QUANTITY - Period Thirteen**

Labor Escalation Rate 0.05%

Item No.	Labor Class (WD, CBA, Exempt)	Labor Category	Unit	ST Unit Rate	OT Unit Rate
1		Analyst, Infrared	Hr.		
2		Analyst, Motor	Hr.		
3		Analyst, Oil	Hr.		
4		Analyst, Project	Hr.		
5		Analyst, Project (GIS)	Hr.		
6		Analyst, Vibration	Hr.		
7		Architect	Hr.		
8		Asbestos Worker	Hr.		
9		Backhoe Operator	Hr.		
10		Calibration Mechanic	Hr.		
11		Carpenter, Maintenance	Hr.		
12		Computer System Analyst II	Hr.		
13		Crane Operator, Maintenance	Hr.		
14		Data Base Administrator	Hr.		
15		Drafter IV	Hr.		
16		Electrician, Maintenance High Voltage	Hr.		
17		Electrician, Maintenance	Hr.		
18		Elevator Repairer	Hr.		
19		Engineer, (5-15 Years Experience)	Hr.		
20		Engineer, Junior (<5 Years Experience)	Hr.		
21		Engineer, Senior (>15 Years Experience)	Hr.		
22		Engineering Technician I	Hr.		
23		Engineering Technician II	Hr.		
24		Engineering Technician III	Hr.		
25		Engineering Technician IV	Hr.		
26		Engineering Technician V	Hr.		
27		Engineering Technician VI	Hr.		
28		Engineer, Computer (>5 Years Experience)	Hr.		
29		Insulator, Pipecover, Maintenance	Hr.		
30		Laborer, Class "B" Maintenance	Hr.		
31		Laborer, Class All Maintenance	Hr.		
32		Librarian	Hr.		
33		Machinist, Maintenance	Hr.		
34		Machinist, Precision	Hr.		
35		Manager, Project (< 10 Years Experience)	Hr.		
36		Manager, Project (>10 Years Experience)	Hr.		
37		Mason, Bricklayer, Maintenance	Hr.		
38		Mechanic, Crane	Hr.		
39		Mechanic, Maintenance	Hr.		
40		Mechanic, Ref & A/C Maintenance	Hr.		
41		Millwright, Maintenance	Hr.		
42		Painter, Maintenance	Hr.		
43		Pipefitter, Maintenance	Hr.		
44		Plant Technician	Hr.		
45		Plant Technician, Senior	Hr.		
46		Precision Machine Repairman	Hr.		
47		Programmer Analyst, Journeyman (>4 Years Experience)	Hr.		
48		Programmer Analyst, Junior (>2 Years Experience)	Hr.		
49		Programmer Analyst, Senior (>6 Years Experience)	Hr.		
50		Rigger, Maintenance	Hr.		
51		Roofer, Maintenance	Hr.		
52		Sheet Metal	Hr.		
53		Stationary Steam Engineer	Hr.		
54		Steamfitter	Hr.		
55		Surveyor, Licensed	Hr.		
56		System Analyst, Journeyman (>4 Years Experience)	Hr.		
57		System Analyst, Junior (>2 Years Experience)	Hr.		
58		System Analyst, Senior (>6 Years Experience)	Hr.		
59		Technician, Ref & A/C Maintenance	Hr.		
60		Water Treatment	Hr.		
61		Welder	Hr.		
62		Technical Writer	Hr.		
APPLICATION BASE					
RSMeans Labor Discount		Not Applicable	\$1.00		
RSMeans Mat. Discount		Not Applicable	\$1.00		
INDIRECT RATES					
Fringe Benefits	Labor		\$1.00		
Overhead	TCI before G&A		\$1.00		
Material Handling	Not Applicable		\$1.00		
Subcontract Handling	Not Applicable		\$1.00		
G&A	TCI		\$1.00		

## EXHIBIT C - CONTRACT DOCUMENTATION REQUIREMENTS

A. Initial Baseline Financial Management Report -- The Contractor shall prepare a time-phased baseline financial management report for CLIN 2, detailing by month, how you plan to incur costs for the first 12-month interval of the total 10-year contract period, utilizing the minimum reporting categories in Paragraph B.7. The report shall be prepared and submitted in accordance with instructions set forth on the reverse side of the 533Q form and NASA Policy and Guidelines (NPG) 9501.2D, "NASA Contractor Financial Management Reporting." The initial 533Q shall be submitted within 30 working days after the effective date of contract.

Financial baseline reports for each of the remaining 12-month intervals shall be submitted within 10 days of the anniversary of the effective date of this contract. The total estimated cost and direct labor hours reflected in the baseline report must equal the contract values for the total contract period. The report shall be updated, as required, during the contract performance by submission of revised pages for approval of the Contracting Officer. The financial baseline report shall be revised each time a contract modification is executed which increases or decreases the contract estimated cost, for a reason other than an overrun. The report shall not be revised to include overrun costs.

See Paragraph B.7 below for minimum reporting categories.

B. Monthly Financial Management Report -- The contractor shall comply with the Section G clause of this contract entitled, "NASA Contractor Financial Management Reporting" by monthly submission of NASA Form 533M. The form shall be prepared and submitted in accordance with the instructions set forth on the reverse side of the form and NASA Procedures and Guidelines (NPG) 9501.2D, "NASA Contractor Financial Management Reporting" as further definitized below:

1. Due not later than the 10th operating day following the close of the Contractor's accounting period being reported.
2. Columns 8.a and b shall be completed using estimates (forecasts) for the succeeding two months.
3. Each NF533M shall include a narrative explanation for variances exceeding +-5 percent between estimated dollars shown in the prior month and actual dollars shown in the current month at the contract level. (For example, the estimated dollars shown for June in column 8a. in the May 533M and the actual June dollars shown in column 7a. in the June 533M.)
4. The minimum reporting categories specified below shall be included in column 6 of this report.
5. 533M reports are also to be submitted for any cost-type IDIQ issued under the IDIQ portion of the contract in accordance with B.1-4 as stated above.

6. Monthly Purchase Card Summary: For all Purchase Card Orders, the Contractor shall submit a monthly report that tracks the total amount of orders completed and billed for the month in addition to year-to-date totals. This information shall be submitted in conjunction with the 533M and be reflected in a Summary Cover Page/Letter that reflects the monthly total and cumulative to date value of all orders billed to date.

7. Minimum reporting categories for the Summary Monthly 533M report is listed below. Categories may be changed depending on the accounting system of the Contractor.

Hours:

Direct Labor Hours

Overtime Hours

**Total Direct Labor Hours**

Labor:

Direct Labor \$'s

Overtime \$'s

**Subtotal Direct Labor \$'s**

Fringe

Overhead(s)

**Total Direct Labor \$'s**

Other Directs Costs:

Subcontracts (by major subcontractor)

Labor Hours

Subcontracting Labor Dollars

ODCs (as listed below)

**Subtotal Subcontracting \$'s**

Other Subcontracts

Material and Supplies

Equipment

Training

Individual line items in B.7

**ODC subtotal**

**Subtotal Direct Labor and ODCs**

**G&A**

Total Est. Cost

Total Incentive/Fixed Fee

**Total Cost Plus IF/FF (CLINS 1/3)**

**CPFF IDIQ (CLIN 4.2):**

Total Est. Cost

Fixed Fee

**Total CPFF IDIQ**

**Total CPIF/CPFF plus CPFF IDIQ**

**Fixed Price (CLIN 4.1) Total\***

\*533M reporting by category is not required for Fixed Price IDIQ. However, the total value of all FP WOs and TOs shall be shown on the Summary 533M to reflect total value of contract (i.e. estimated cost, incentive/fixed fee, and IDIQ cost and fixed price elements of the contract.)

NOTE: The sum of the total hours and dollars of all detailed financial reports shall equal the total hours and dollars shown in the Summary 533M report for the total contract.

Detailed Financial Management Reports (533M)--Utilizing the reporting categories as stated above for the Monthly Financial Management Report, additional detailed 533M reports segregated by CLIN SOW sections and subsections (e.g. 2.1.1.1. Operations Management) as indicated below shall be provided:

- Contract Management
- Operations
- Maintenance
- Engineering
- Information Technology

In addition, the breakdown of costs by the SOW sections and subsections listed above shall also be reported for the following facilities:

- 8' HTT
- 14 x 22
- NTF
- TDT
- Unitary

A separate detailed 533M report is also required for all cost-type Task Orders greater than \$25K. The total shall be reflected in the Summary 533M to reflect total contract value.

C. Quarterly Financial Management Report -- The Contractor shall submit a quarterly financial report at the contract level as specified in B. above, on NASA Form 533Q at times and in accordance with the instructions contained on the reverse side of the form.

D. Monthly Progress Report -- The Contractor shall submit monthly reports reflecting contract status, noting all technical and business areas in which effort is being directed and indicating the status of work within these areas. Reports shall be in narrative form, brief and informal in content. These reports shall include:

1. A narrative statement of work progress/accomplished during the report period.

2. A statement of current and potential problem areas and proposed corrective action.
3. A discussion of work to be performed during the next report period.
4. The summary of the direct labor-hours and total cost expended during the report period as well as the cumulative direct labor hours and total cost expended to date for the base requirements, IQs, and for each Task Order in addition to the projected direct labor hours and total cost to be expended to completion of the task.

E. Annual Report -- The Contractor shall submit an annual report that summarizes significant achievements during the year, including lessons learned, and documents and summarizes the results of the entire contract work. The final report shall include sufficient detail to comprehensively explain the results achieved under the contract. (NTE 10 pages.)

F. Annual IT Security Training Report - The Contractor shall ensure that its employees receive annual IT security training in accordance with clause 1852.204-76 and submit an annual report documenting the status of this training each year and monthly follow-on reports until 100% annual training is achieved.

G. Safety Reports -- The Contractor shall submit safety reports to the LaRC Safety and Facility Assurance Office. These reports shall be submitted on a quarterly basis if the period of performance exceeds ninety days. If the period of performance is less than ninety days, the Contractor shall submit a single report upon completion of on-site work. The Safety Report shall include the hours worked on the contract and the number of fatalities, lost time cases, OSHA recordable incidents and first aid cases which have occurred during the past quarter (if less than ninety days, during the contract's period of performance). NOTE: The NASA LaRC Safety and Facility Assurance Office (SFAO) has developed a web-based system entitled "Contractor Monthly Accident Reporting" (CMAR) located at <http://cmar.larc.nasa.gov/login.cfm> If you choose to submit your information electronically via CMAR, no additional hard-copy reports are required. Please contact the responsible NASA official identified at the site for additional information regarding access to the system.

H. Notice of Violation Response -- The Contractor shall respond to any Notice of Violation (NOV) issued for safety violations to the prime itself or its subcontractors within three working days of issuance. The response should include cause for violation; mitigation of impact, if applicable; planned prevention of recurrence. Response shall be submitted to the issuer of the NOV.

I. Security Implementation Plan for Unclassified Information Technology Resources - The Contractor shall submit the Security Implementation Plan required by contract clause NFS 1852.204-76 no later than 30 days after award for Government approval.

J. Conformable Wage Rate Agreement -- Within 15 operating days after the effective date of the contract, the Contractor shall submit a report confirming conformable wage rate agreement as this subject is addressed in the Section I clause entitled "Service Contract Act of 1965," for those individuals employed by the Contractor who are

covered by the Service Contract Act, but are not listed in Exhibit J.

K. Collective Bargaining Agreements -- The Contractor shall provide the Contracting Officer with copies of any collective bargaining agreements, and amendments thereto, which arise during the course of the contract and which apply to Contractor employees assigned to the contract.

L. Property in the Custody of Contractors (NASA FORM 1018) -- The Contractor shall submit the NASA Form 1018 no later than October 31 of each year in accordance with the Section G clause entitled "Financial Reporting of NASA Property in the Custody of Contractors."

M. Documentation for Transferring Property to the Government -- In accordance with the Installation-Accountable Government Property clause of this contract, accountability for that property which is acquired for the Government under this contract shall be passed to the Government using the following procedure:

The transfer of accountability shall be initiated by the Contractor submitting a Requisition and Invoice/Shipping Document, DD Form 1149, accompanied by a copy of the Contractor's applicable purchasing and receipt document for the property. The Contractor shall insert both the Contractor's Subcontract/Purchase Order number and the Government contract number on the DD Form 1149 under the "Federal Stock Number, Description, and Coding of Material and/or Services" block.

For purchases of supplies and materials, a quarterly report shall be submitted within 30 days after the end of each calendar-year quarter (that is, not later than January 30, April 30, July 30, and October 30). For equipment purchases, the DD 1149 shall be submitted within five workdays after acceptance of each item of equipment by the Contractor. Receipt by the Contractor of a copy of the DD Form 1149 signed by the Government relieves the Contractor of accountability for the property specified on that form.

#### N. Subcontracting Reports

a. The Contractor shall submit Standard Form 294, Subcontracting Report for Individual Contracts, and Standard Form 295, Summary Subcontractor Report, in accordance with the instructions on the reverse of the forms.

In addition to the instructions on the reverse of the SF 295, the Contractor is required to comply with NFS Clause 1852.219-75, Small Business Subcontracting Reporting.

b. The Contractor shall submit an SDB Participation Report in accordance with the Section I FAR Clause 52.219-25, Small Disadvantaged Business Program -- Disadvantaged Status and Reporting. This report shall be submitted within 30 days after the end of each contract year.

Paragraph O listed below is only applicable to those offerors who are not registered/certified at award.

O. Quality System Documents (ISO 9001) -- The Contractor shall submit the following ISO-compliant documents in accordance with H.11 no later than nine months from the effective date of contract:

1. Quality System Manual

2. Quality System Procedures - These procedures shall address: (1) contract and subcontract management, (2) customer requirement review and execution, (3) task management, including work order generation and processing, (4) document control, (5) handling of customer supplied product, (6) corrective, preventive, and continuing improvement action systems, (7) training of employees, (8) customer satisfaction/performance measurement and (9) design control.

P. Federal Contractor Veterans Employment Report -- In compliance with Clause 52.222-37, Employment Reports on Disabled Veterans and Veterans of the Vietnam Era, the Contractor shall submit the Federal Contractor Veterans Employment Reports (VETS-100) as required by this clause.

Q. Evidence of Insurance -- The Contractor shall submit evidence annually of the insurance coverage, required by the NASA Clause 1852.228-75 in Section I entitled "Minimum Insurance Coverage" (i.e., a Certificate of Insurance or other confirmation), to the Contracting Officer prior to performing under this contract. The Contractor shall also present such evidence to the Contracting Officer prior to commencement of performance under any options exercised, if applicable.

Only applicable to small businesses:

R. (a) Interim patent rights report - After the first anniversary date of the contract, the Contractor shall submit an annual list of all subject inventions to be disclosed as set forth in FAR 52.227-11 (as modified by 1852.227-11). This report is due by March 31 of each year.

(b) Final patent rights report - The Contractor shall submit a listing of all subject inventions or certify that there were none as set forth in FAR 52.227-11 (as modified by 1852.227-11). This report is due prior to contract closeout.

(c) Invention disclosure reporting - The Contractor shall disclose each reportable item under the contract as set forth in FAR 52.227-11 (as modified by 1852.227-11). The electronic or paper version of NASA Form 1679, Disclosure of Invention and New Technology (Including Software) may be used for this reporting. Both the electronic and paper versions of this form may be accessed at <http://invention.nasa.gov>. Disclosures are required within two months after the inventor discloses it in writing to Contractor personnel who are responsible for patent matters.

OR

Only applicable to large businesses:



R. (a) Interim New Technology report - After the first anniversary date of the contract, the Contractor shall submit an annual list of reportable items, certify that all reportable items have been disclosed (or that there are no such inventions), and certify that the procedures required by paragraph (e)(1) of the New Technology clause have been followed as set forth in NFS 1852.227-70. This report is due by March 31 of each year.

(b) Final New Technology Report - The Contractor shall submit a list of reportable items or certify that there were no such reportable items, and list all subcontracts at any tier containing a patent rights clause or certify that there were no such subcontracts as set forth in NFS 1852.227-70. This report is due within 3 months after completion of the contracted work.

(c) Invention disclosure reporting - The Contractor shall disclose each reportable item under the contract as set forth in NFS 1852.227-70. The electronic or paper version of NASA Form 1679, Disclosure of Invention and New Technology (Including Software) may be used for this reporting. Both the electronic and paper versions of this form may be accessed at <http://invention.nasa.gov>. Disclosures are required within two months after the inventor discloses it in writing to Contractor personnel who are responsible for the administration of the New Technology clause.

S. Environmental Report – This annual report shall consist of the items purchased with a minimum recycled material content ([www.epa.gov/cpg/](http://www.epa.gov/cpg/)). The report shall reflect the quantity of the item purchased with recycled content and without, and the dollar amounts spent on each category for each of the items listed at the web site.

T. Contractor Handling of Data Plan – In accordance with Clause H-15, Handling of Data, the contractor shall deliver a plan no later than 30 calendar days after contract award addressing policies and procedures for handling contract data.

U. GFP Rental Use Itemization – The contractor shall prepare a quarterly itemization detailing the items of GFP used for non-Government work during the preceding month. The report shall contain a summary of hours for each piece of equipment used for other than Government work. The report shall also detail the actual benefit to the Government for the reporting period, e.g. reduced overall contract costs.

## II. DOCUMENT DISTRIBUTION REQUIREMENTS

A. Unless otherwise specified elsewhere in this contract, reports and other documentation shall be submitted F.O.B. destination as specified below, addressed as follows:

National Aeronautics and Space Administration Langley Research Center  
Attn: \_\_\_\_\_, Mail Stop XXX, Contract NAS1-#  
Hampton, VA 23681-2199

B. The following letter codes designate the recipients of reports and other documentation which are required to be delivered prepaid to Langley Research Center

by the Contractor:

1. A--Contract Specialist, Mail Stop 126
2. B--Contracting Officer Technical Representative, Mail Stop #
3. C--New Technology Representative, Mail Stop 212
4. D--Cost Accounting, NF533@larc.nasa.gov
5. E--Office of Safety and Facility Assurance, Mail Stop 421
6. F- Contractor Labor Relations Officer, Mail Stop 144
7. G--Office of Chief Financial Officer, Mail Stop 104
8. H--Patent Counsel, Mail Stop 212
9. I---Industrial Property Office, Mail Stop 377
10. J--Small Business Specialist, Mail Stop 134
11. K--Center Information Technology Security Manager (CITSM), Mail Stop 124
12. L--According to instructions on form
13. M--As required by Task Order
14. N--Task Monitor
15. O--Langley Management System Project Office, Mail Stop 438
16. P--Industry Assistance Representative, Mail Stop 144
17. Q—Environmental Office, Mail Stop 418

C. The following are the distribution requirements for reports and other documentation required to be delivered f.o.b. destination. The numeral following the letter code specifying the number of copies to be provided:

#### **LETTER CODE AND DOCUMENT: DISTRIBUTION**

- |   |                      |
|---|----------------------|
| 1. Financial Management Report (NASA Forms 533M & 533Q):  | A-1, B-1, D-1, G-1   |
| 2. Monthly Progress Report:   | A-1, B-1, M, N-1     |
| 3. Evidence of Insurance:   | A-1                  |
| 4. Conformable Wage Rate Agreement:   | A-1, B-1, F-1        |
| 5. New Technology Report OR Patent Rights Report:   | A-1, B-1, C-1 or H-1 |
| 6. Collective Bargaining Agreement:   | A-1, B-1, F-1        |
| 7. Report of Property in the Custody of Contractors (NASA Form 1018):   | A-1, B-1, I-4, L     |
| 8. Subcontracting Report for Individual Contracts (Standard Form 294) and SDB Participation Report (Optional Form 312): | A-1, J-1, P-1, L     |
| 9. Summary Subcontractor Report (Standard Form 295):  | L                    |
| 10. Requisition and Invoice/Shipping Document (DD Form 1149):   | I-1                  |

11. Federal Contractor Veterans Employment Report (VETS-100):	L
12. Quality Plan:	A-1, B-1, O-1
13. Quality System Documents:	A-1, B-1, O-1
14. Safety Reports:	E-1
15. Notice of Violation Responses:	E-1
16. Security Implementation Plan for Unclassified IT Resources:	A-1, B-1, K-1
17. Quarterly Property Listing (supplies and materials)	I-4
18. Annual IT Security Training Report	A-1, B-1, K-1
19. Contractor Handling of Data Plan	A-1, B-1
20. GFP Rental Use Itemization	A-1, B-1
21. Environmental Report	A-1, B-1, Q-1
22. Annual Report	A-1, B-1
23. Documentation for Transferring Property (DD 1149)	L

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	6' STEP LADDER	WERNER	FSA06	N/A	\$95
Y	NONE	8' STEP LADDER	WERNER	FSA08	N/A	\$126
N	424298	82 PICKUP TRUCK	FORD MOTOR CO	F250	1982	\$9,644
Y	NONE	ABRASIVE MACHINE	S S WHITE	F	N/A	\$675
Y	NONE	AC AMMETER	WESTON	433	N/A	\$153
Y	1259781	AC CALIBRATOR	HP	745A	1976	\$8,177
Y	A008257	AC LINE CONDITIONER	TRIPP-LITE	LC-1800	1994	\$194
Y	C067877	AC LINE CONDITIONER	TRIPP-LITE	LC-1800A	NONE	\$289
N	1259855	AC POWER SOURCE	CALIFORNIA INSTRUMENTS	751T	1973	\$2,056
Y	A002443	AC VOLTAGE REGULATOR	TRIPP-LITE	LCR-2400	1991	\$425
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$342
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$327
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$327
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$327
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$327
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$287
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$287
Y	NONE	AC VOLTMETER	HP	400E	N/A	\$287
Y	NONE	AC/DC CURRENT PROBE	FLUKE	80I-410	N/A	\$259
Y	M098987	AC/DC SHUNT	WAVETEK	4953	NONE	\$450
Y	NONE	ACCEL AMP	KISTLER	566	N/A	\$460
N	803473	ACCEL PROGRAM	MONTEREY RESEARCH	516F	1973	\$20,000
Y	1260003	ACCELEROMETER	SUNDSTRAND	QA900	1985	\$1,060
Y	1260002	ACCELEROMETER	SUNDSTRAND	QA900	1985	\$1,060
Y	1260001	ACCELEROMETER	SUNDSTRAND	QA900	1985	\$1,060
Y	NONE	ACCELEROMETER	KISTLER	808K1	N/A	\$922
Y	NONE	ACCELEROMETER	KISTLER	303T	N/A	\$750
Y	NONE	ACCELEROMETER	KISTLER	303T	N/A	\$750
Y	NONE	ACCELEROMETER	KISTLER	303B	N/A	\$585
Y	NONE	ACCELEROMETER	KISTLER	303B	N/A	\$585
Y	NONE	ACCELEROMETER	ENDEVCO	2225	N/A	\$366
Y	NONE	ACCELEROMETER	ENDEVCO	2225	N/A	\$366
Y	NONE	ACCELEROMETER	ENDEVCO	2224C	N/A	\$200
Y	NONE	ACCESSORY KIT	B & K	9554	N/A	\$3,988
Y	NONE	ACOUSTIC SOURCE	ELECTRO VOICE	DH2AMT	N/A	\$250
Y	A008036	ACTIVE PROBE	HP	54701A	1994	\$500
Y	A008035	ACTIVE PROBE	HP	54701A	1994	\$500
Y	A005450	ADAPTER BOX	GUILDLINE	65201	1993	\$540
N	1263360	AIR COMPRESSOR	INGERSOLL-RAND	SSR-EP30SE	1994	\$9,284
Y	NONE	AIR COMPRESSOR	BINKS	331030	N/A	\$517
Y	NONE	AIR DRYER	DAYTON	32528	N/A	\$446
N	1259713	AIR PISTON GA	RUSKA	2465	NONE	\$10,050
N	1259708	AIR PISTON GAGE	RUSKA	2470	1973	\$2,785
N	1259976	AIR PISTON GAGE	RUSKA	2465	1965	\$5,142
N	848429	AIR PISTON GAUGE BASE	RUSKA	2465-752	1989	\$5,600
N	1263051	AIR TANK	STEEL FAB	20-200	1994	\$1,166
Y	1159699	AM/FM TEST SOURCE	HEWLETT-PACKARD	11715A	NONE	\$2,749
Y	NONE	AMP RACK	NEFF	18	N/A	\$272
N	803436	AMPLIFIER	PACIFIC MEASUREMENTS	1038-V12	1986	\$1,750
N	803435	AMPLIFIER	PACIFIC MEASUREMENTS	1038-V12	1986	\$1,750
Y	57352	AMPLIFIER	TEKTRONIX	7A16A	1988	\$1,335
N	G078979	AMPLIFIER	FLUKE	5725A	1990	\$7,849
Y	NONE	AMPLIFIER	TEKTRONIX	7A11	N/A	\$2,700
Y	NONE	AMPLIFIER	NEFF	122-223	N/A	\$917
Y	NONE	AMPLIFIER	NEFF	122-223	N/A	\$917
Y	NONE	AMPLIFIER	KISTLER	561T	N/A	\$840
Y	NONE	AMPLIFIER	TEKTRONIX	7A19	N/A	\$800
Y	NONE	AMPLIFIER	ENDEVCO	2718A	N/A	\$800
Y	NONE	AMPLIFIER	ENDEVCO	2718A	N/A	\$800
Y	NONE	AMPLIFIER	EF JOHNSON CO	PA3-1AC-SSR	N/A	\$795
Y	NONE	AMPLIFIER	EF JOHNSON CO	PA3-1AC-SSR	N/A	\$795
Y	NONE	AMPLIFIER	EF JOHNSON CO	PA3-1AC-SSR	N/A	\$795
Y	NONE	AMPLIFIER	EF JOHNSON CO	PA3-1AC-SSR	N/A	\$795
Y	NONE	AMPLIFIER	EF JOHNSON CO	PA3-1AC-SSR	N/A	\$795
Y	NONE	AMPLIFIER	TEKTRONIX	7A19	N/A	\$700
Y	NONE	AMPLIFIER	TEKTRONIX	7A22	N/A	\$610
Y	NONE	AMPLIFIER	ALTEC	1591A	N/A	\$590
Y	NONE	AMPLIFIER	NEFF	122	N/A	\$565
Y	NONE	AMPLIFIER	QSC	1100	N/A	\$400
Y	NONE	AMPLIFIER	QSC	1100	N/A	\$400
Y	NONE	AMPLIFIER	QSC	1100	N/A	\$400
Y	NONE	AMPLIFIER	QSC	1100	N/A	\$400
Y	NONE	AMPLIFIER	QSC	1100	N/A	\$398
Y	NONE	AMPLIFIER	GENRAD	1232A	N/A	\$385
Y	NONE	AMPLIFIER	HP	461A	N/A	\$352
Y	NONE	AMPLIFIER	HP	461A	N/A	\$352
Y	NONE	AMPLIFIER	HP	465A	N/A	\$192
Y	NONE	AMPLIFIER	TEKTRONIX	5A15N	N/A	\$175
N	803434	AMPLIFIER	PACIFIC MEASUREMENTS	1038-H13	NONE	\$1,375

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	M096281	AMPLIFIER CASE	NEFF	SC018-2	NONE	\$125
N	1261651	AMPLIFIER PLUG-IN	HP	54721A	1994	\$3,627
Y	1259650	AMPLIFIER RACK	NEFF	018-17	1982	\$3,696
Y	NONE	AMPLIFIER SPEAKER	AMPEX	AA620	N/A	\$240
Y	NONE	AMPLIFIER SPEAKER	AMPEX	AA620	N/A	\$240
Y	803431	AMPLITUDE CALIBRATOR	TEKTRONIX	067-0508-00	1981	\$1,100
Y	NONE	ANALOG EXTENDER CARD	FLUKE	5700A-3103	N/A	\$204
Y	NONE	ANALOG EXTENDER CARD	FLUKE	5700A-3102	N/A	\$204
Y	1259898	ANALYZER	HP	310A	1974	\$2,807
Y	1259890	ANALYZER	SENCORE	VA48	1980	\$1,095
Y	NONE	ANALYZER	HP	5004A	N/A	\$1,056
Y	NONE	ANALYZER	HP	334A	N/A	\$946
Y	1085213	ANALYZER DIGITAL BUS	IO TECH	488	1991	\$1,795
N	62021	ANALYZER PRESSURE SCANNR	PSI	PSA-1	1989	\$1,700
Y	139880	ANALYZER SPECTRUM	HP	3561A	1987	\$11,387
N	847294	ANALYZER SPECTRUM	ONO SOKKI	CF350B	1989	\$16,530
N	1158013	ANEMOMETER/THERMOMETER	APPLIED TECH	SWS-211/3CKNY	1992	\$11,147
Y	847849	ANTENNA	GENERAL INSTRUMENT CORP	D2213	1989	\$1,867
Y	1090513	ANTENNA	KINEMATRICS	A-468MS	1992	\$1,638
Y	NONE	ANTENNA CHOKE RING	NOVATEL	A031	N/A	\$675
Y	NONE	AOA MOUNTING BRACKET	NASA	55X8	N/A	\$1,500
Y	NONE	ATTENUATOR	HP	355C	N/A	\$160
Y	1160317	ATTENUATOR	HEWLETT-PACKARD	84906K	1993	\$1,795
Y	NONE	ATTENUATOR	HP	355D	N/A	\$160
Y	NONE	ATTENUATOR	HP	355D	N/A	\$160
Y	NONE	ATTENUATOR	HP	355C	N/A	\$160
Y	NONE	ATTENUATOR SET	HP	350D	N/A	\$165
Y	NONE	ATTENUATOR SET	HP	350D	N/A	\$127
Y	NONE	AUDIO OSCILLATOR	GENRAD	1311A	N/A	\$383
Y	NONE	AUTO DATA SWITCH	MAX TECH	MS-801	N/A	\$109
Y	NONE	B P FILTER	KROHN HITE	310CR	N/A	\$975
Y	NONE	BAG SEALER	DOUGHBOY INDUSTRIES	HS-C	N/A	\$150
N	1426407	BALLON WINCH	AIR INC	TS3AW	1995	\$3,545
N	1259971	BAND PASS FILTER	KROHN HITE	3343	1975	\$1,761
Y	1259992	BAND PASS FILTR	KROHN HITE	3343	1982	\$2,337
Y	1260037	BAND SAW	DO ALL	NONE	1973	\$4,783
Y	NONE	BANDPASS FILTER	TEKTRONIX	AF501	N/A	\$782
Y	NONE	BANDPASS FILTER	HP	5489A	N/A	\$425
Y	NONE	BAROCEL HEATER BASE	DATAMETRICS	525	N/A	\$150
N	35747	BAROMETER/ALTIMETER	AIR INC	AIR-HB2A	1995	\$13,063
Y	NONE	BARRIER	RUSKA	24135	N/A	\$300
Y	NONE	BARRIER	RUSKA	10735	N/A	\$300
Y	M096533	BATTERY PACK	FLUKE	Y2009	NONE	\$329
N	1260023	BELLOWS	RUSKA	2461-80	1984	\$1,200
Y	G074601	BELLOWS	RUSKA	3891-801	1995	\$1,680
Y	NONE	BELT SANDER	SEARS	9H22582	N/A	\$75
Y	NONE	BENCH GRINDER	DO ALL	NONE	N/A	\$97
Y	NONE	BINDING MACHINE	NSC INTERNATIONAL	STAR	N/A	\$330
Y	281441	BLACK BODY	INFRARED INDUSTRIES	IR463	1985	\$4,595
Y	NONE	BLACKBODY	BARNES	FCS-1	N/A	\$195
Y	A007650	BNC CONCENTRATOR	BLACK BOX	LE673A	1994	\$465
Y	1259910	BRAKE	DI-ACRO	24	1981	\$1,100
Y	141721	BUFFER	MAX TECH	PB64	1988	\$89
Y	NONE	BUFFER PRINTER	MAX TECH	PB64	N/A	\$99
Y	NONE	BUFFER PRINTER	MAX TECH	PB64	N/A	\$99
Y	NONE	BUFFER PRINTER	MAX TECH	PB64	N/A	\$99
Y	NONE	BURET	FISHER SCIENTIFIC	50ML	N/A	\$38
Y	221364	BUS ANALYZER	TEKTRONIX	067-0746-00	1986	\$1,250
Y	1259751	BUS SYSTEM ANALYZER	HP	59401A	1976	\$2,500
Y	280259	BUS SYSTEM ANALYZER	HP	59401A	1985	\$3,700
Y	NONE	CABINET	VISIRECORD	M	N/A	\$962
Y	NONE	CABINET	BELL & HOWELL	NONE	N/A	\$824
Y	NONE	CABINET	RUSS BASSETT	NONE	N/A	\$575
Y	NONE	CABINET	HP	2010E	N/A	\$300
Y	NONE	CABINET	WADDY	NONE	N/A	\$154
Y	NONE	CABINET	JEBCO	NONE	N/A	\$50
Y	NONE	CABINET	JEBCO	NONE	N/A	\$50
Y	NONE	CABINET	JEBCO	NONE	N/A	\$50
Y	469431	CABINET STORAGE	T RUSS	MF-7-3	1980	\$575
Y	NONE	CABLE	WYLE	200 FT	N/A	\$300
Y	NONE	CABLE	WYLE	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
Y	NONE	CABLE	LARC	200 FT	N/A	\$300
N	1259849	CAL STANDARD	UNHOLTZ DICKIE	1611	1975	\$1,515
N	1259845	CAL STANDARD	UNHOLTZ DICKIE	1611	1975	\$1,515
N	1259848	CAL STANDARDIZER	UNHOLTZ DICKIE	1611	1975	\$1,515

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	CAL STD	KISTLER	808K2	N/A	\$500
Y	NONE	CAL VIB STD	KISTLER	808K1/5	N/A	\$922
Y	M096960	CALCULATOR	TEXAS INSTRUMENTS	TI-5142	1983	\$78
Y	550061	CALCULATOR	HP	75C	1984	\$750
Y	221363	CALCULATOR	SHARP	EL5500 II	1986	\$70
Y	NONE	CALCULATOR	HP	41CV	N/A	\$973
Y	NONE	CALCULATOR	HP	35	N/A	\$387
Y	NONE	CALCULATOR	HP	35	N/A	\$387
Y	NONE	CALCULATOR	TEXAS INSTRUMENTS	59	N/A	\$261
Y	NONE	CALCULATOR	SHARP	EL-5500 III	N/A	\$70
Y	791055	CALCULATOR	HP	41CV	NONE	\$175
Y	NONE	CALIBRATION BOX	TELEDYNE	CPR-HFC	N/A	\$395
Y	NONE	CALIBRATION CARD	NEFF	90023301	N/A	\$2,000
Y	20089	CALIBRATION FIXTURE	TEKTRONIX	067-0587-02	1988	\$3,830
Y	NONE	CALIBRATION FIXTURE	TEKTRONIX	067-0680-00	N/A	\$547
Y	NONE	CALIBRATION FIXTURE	TEKTRONIX	067-0521-00	N/A	\$200
Y	NONE	CALIBRATION FIXTURE	TEKTRONIX	067-0500-00	N/A	\$100
Y	803427	CALIBRATION GENERATOR	TEKTRONIX	PG506	1981	\$1,978
Y	NONE	CALIBRATION GENERATOR	TEKTRONIX	PG506A	N/A	\$4,743
Y	221859	CALIBRATION INTERFACE	FLUKE	Y5000	1986	\$555
Y	NONE	CALIBRATION PCB	NEFF	90023301	N/A	\$2,000
Y	848238	CALIBRATION STANDARD	WAVETEK	4708	1989	\$22,900
N	1262684	CALIBRATION STANDARD	WAVETEK/DAYTRON	4950	1994	\$18,995
N	1259620	CALIBRATOR	B & K	4142	1974	\$1,032
N	1259637	CALIBRATOR	FLUKE	5101A	1979	\$10,759
Y	1259636	CALIBRATOR	FLUKE	5100A	1979	\$7,919
Y	1259874	CALIBRATOR	ECTRON	1100CF	1980	\$2,774
Y	1259795	CALIBRATOR	HP	K02-434A	1981	\$1,000
Y	1259666	CALIBRATOR	FLUKE	5440A	1983	\$12,303
Y	527490	CALIBRATOR	ECTRON	1120	1984	\$5,078
Y	528526	CALIBRATOR	HP	745A	1986	\$4,521
Y	778920	CALIBRATOR	DYNISCO	1000	1986	\$1,875
N	1255314	CALIBRATOR	FLUKE	5700A	1990	\$24,623
Y	NONE	CALIBRATOR	HP	8402B	N/A	\$478
Y	1259734	CALIBRATOR GENERATOR	TEKTRONIX	PG506	1975	\$12,095
Y	NONE	CALIPER MIKE	NSK	1 INCH	N/A	\$20
Y	473457	CAPACITANCE BRIDGE	GENRAD	1620AP	1976	\$4,222
N	1090401	CAPACITANCE GAUGE	MKS	390HA	1992	\$2,500
N	1090400	CAPACITANCE GAUGE	MKS	390HA	1992	\$2,500
N	1090399	CAPACITANCE GAUGE	MKS	390HA	1992	\$2,500
Y	NONE	CAPACITANCE METER	B & K PRECISION	830	N/A	\$300
Y	NONE	CAPACITANCE METER	ECD CORP	100	N/A	\$295
Y	NONE	CAPACITANCE METER	ECD CORP	100	N/A	\$289
Y	221288	CAPACITANCE METER	MCM ELECTRON	72-040	NONE	\$60
Y	NONE	CAPACITOMETER	SENCORE	LC53	N/A	\$647
Y	220940	CAPACITOMETER	SENCORE	LC53	NONE	\$806
Y	1089498	CAPACITOR ANALYZER	SENCORE	LC102	1992	\$1,686
Y	139825	CAPACITOR ANALYZER	SENCORE	LC75	NONE	\$806
Y	54902	CAPACITOR-INDUCTOR ANALYZER	SENCORE	LC75	NONE	\$805
Y	NONE	CART	REMIN	COMMANDER 600	N/A	\$104
Y	NONE	CART	REMIN	CONCORDE II	N/A	\$84
Y	NONE	CART	REMIN	CONCORDE II	N/A	\$84
Y	NONE	CATHODE FOLLOW	B & K	2617	N/A	\$351
Y	1260908	CD DRIVE UNIT	NEC	CDR 600	1994	\$644
N	1256769	CENTRIFUGE	A G DAVIS	PRC-2000	1993	\$114,230
Y	NONE	CHARGER BATTERY	ASSOCIATED EQUIP CORP	R100	N/A	\$50
Y	NONE	CHEST W/TOOLS	CRAFTSMAN	965726N	N/A	\$646
Y	NONE	CHEST W/TOOLS	CRAFTSMAN	965024N	N/A	\$646
Y	NONE	CHIP TESTER	PRECISION MOTION	CHIPTESTER	N/A	\$363
Y	NONE	CHRONOMETER	MBI CORP	SC-700	N/A	\$35
Y	1259906	CLEAN BENCH	LAMINAR FLOW	NONE	1975	\$1,172
Y	1259886	CLEANER	ODELL	12	1973	\$1,666
Y	NONE	CLEANER	BULOVA	TR50	N/A	\$165
Y	NONE	COAX STRIPPER	XCELITE	3CSK-BR	N/A	\$68
Y	NONE	COAX TERMINATION KIT	JENSON TOOLS	1B301	N/A	\$127
Y	37734	COAXIAL TUNER	MAURY MICROWAVE	1643C	1997	\$1,975
Y	37733	COAXIAL TUNER	MAURY MICROWAVE	1643C	1997	\$1,975
Y	37736	COAXIAL TUNER	MAURY MICROWAVE	1643D	1997	\$1,865
Y	37735	COAXIAL TUNER	MAURY MICROWAVE	1643D	1997	\$1,865
Y	NONE	COLLIMATER	NC	C6800	N/A	\$575
Y	1259788	COMPARATOR	FLUKE	103A	1981	\$1,995
Y	M094255	COMPARATOR	TEKTRONIX	015-0310-01	NONE	\$975
N	1255118	COMPRESSOR AIR/GAS	AUTOCLAVE ENG	DLA5	1993	\$15,000
N	474009	COMPUTER	HP	9835A	1981	\$12,013
Y	1259653	COMPUTER	HP	9835A	1982	\$9,553
Y	1160309	COMPUTER	IBM	286-16	1983	\$3,698
Y	403924	COMPUTER	IBM	5161	1983	\$3,560
Y	549904	COMPUTER	IBM	5160	1984	\$4,634
Y	548037	COMPUTER	IBM	5160	1984	\$4,092
Y	548545	COMPUTER	HP	9816S	1984	\$3,809
Y	548041	COMPUTER	IBM	5160	1984	\$3,339

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1160310	COMPUTER	IBM	286	1984	\$3,189
Y	1160326	COMPUTER	IBM	286	1984	\$2,769
Y	1160327	COMPUTER	IBM	286	1984	\$2,385
Y	1160353	COMPUTER	IBM	286	1984	\$1,978
Y	284182	COMPUTER	IBM	5170	1985	\$4,904
Y	281141	COMPUTER	IBM	5170	1985	\$4,764
Y	283292	COMPUTER	IBM	5170	1985	\$4,153
Y	1160362	COMPUTER	IBM	286	1985	\$3,691
Y	258670	COMPUTER	HP	98561X	1986	\$13,428
Y	137637	COMPUTER	IBM	5170	1986	\$4,629
N	398574	COMPUTER	IBM	5170	1986	\$3,636
Y	258796	COMPUTER	HP	300	1986	\$3,149
Y	258795	COMPUTER	HP	300	1986	\$2,856
Y	398580	COMPUTER	AMERICAN INSTRUMENTS	AT	1986	\$2,261
Y	260272	COMPUTER	MAY COMPUTERS	286	1986	\$1,645
Y	222989	COMPUTER	KAYPRO	PC10	1986	\$1,542
Y	398550	COMPUTER	MAY COMPUTERS	286	1986	\$1,390
Y	G077126	COMPUTER	JDR	XT	1986	\$688
Y	472547	COMPUTER	HP	85A	1987	\$2,907
Y	52526	COMPUTER	EVEREX	1800A	1987	\$2,199
Y	1431934	COMPUTER	HP	98562Y	1988	\$16,644
Y	1431933	COMPUTER	HP	98562X	1988	\$10,556
Y	58095	COMPUTER	APPLE	MAC2FX	1988	\$6,546
Y	57690	COMPUTER	COMPUADD	286	1988	\$1,946
Y	58516	COMPUTER	COMPUADD	ST286	1988	\$1,663
Y	57697	COMPUTER	COMPUADD	ST286	1988	\$1,128
Y	57695	COMPUTER	COMPUADD	ST286	1988	\$1,128
Y	57694	COMPUTER	COMPUADD	ST286	1988	\$1,128
Y	57696	COMPUTER	STANDARD	286	1988	\$1,128
Y	57691	COMPUTER	STANDARD	286	1988	\$1,128
Y	57693	COMPUTER	COMPUADD	286	1988	\$1,128
Y	57692	COMPUTER	COMPUADD	286	1988	\$1,128
Y	53980	COMPUTER	MAY COMPUTERS	286	1988	\$730
Y	847039	COMPUTER	APPLE	MAC2CX	1989	\$6,000
Y	60960	COMPUTER	TOSHIBA	PA8038U	1989	\$2,890
Y	60688	COMPUTER	COMPUADD	286	1989	\$1,583
Y	60687	COMPUTER	COMPUADD	286	1989	\$1,583
Y	60686	COMPUTER	COMPUADD	286	1989	\$1,583
Y	60685	COMPUTER	COMPUADD	286	1989	\$1,583
Y	60684	COMPUTER	COMPUADD	286	1989	\$1,583
Y	G074619	COMPUTER	CALIFORNIA MICROCHIP	486CPU	1990	\$7,500
N	G079531	COMPUTER	IBUS	4875	1990	\$6,558
N	G078890	COMPUTER	GATEWAY	386	1990	\$3,290
Y	849009	COMPUTER	IBM	8570	1990	\$3,261
Y	G077313	COMPUTER	NORTHGATE	386	1990	\$3,226
Y	G074658	COMPUTER	SHEBRO COMPUTERS	386-25	1990	\$2,400
Y	G078452	COMPUTER	APPLE	M5011	1990	\$2,156
Y	G076279	COMPUTER	DOMINION	AT	1990	\$948
Y	1085731	COMPUTER	GATEWAY	486/33DXC	1991	\$3,395
Y	1088102	COMPUTER	GATEWAY	386	1991	\$3,104
Y	1087739	COMPUTER	MICRO EXPRESS	REGALSX386	1991	\$2,099
Y	1087485	COMPUTER	GATEWAY	38625DX	1991	\$1,545
Y	1087788	COMPUTER	GATEWAY	386/25	1991	\$1,500
Y	1087787	COMPUTER	GATEWAY	386	1991	\$1,500
Y	1087786	COMPUTER	GATEWAY	386	1991	\$1,500
Y	1087785	COMPUTER	GATEWAY	386	1991	\$1,500
Y	1087784	COMPUTER	GATEWAY	386	1991	\$1,500
Y	1087783	COMPUTER	GATEWAY	386	1991	\$1,500
Y	1085087	COMPUTER	GATEWAY	386	1991	\$1,465
Y	1088646	COMPUTER	GATEWAY	386/25	1991	\$1,395
N	1093058	COMPUTER	GATEWAY	486DX/33E	1992	\$4,185
N	1092012	COMPUTER	APPLE	MAC2CI	1992	\$3,820
Y	1158487	COMPUTER	HDS	F3D0B081	1992	\$3,724
Y	1092521	COMPUTER	AUSTIN COMPUTER SYSTEMS	486-33I	1992	\$2,500
N	1159595	COMPUTER	STANDARD COMPUTER	486DX-33DTP	1992	\$2,180
Y	1093361	COMPUTER	GATEWAY	486	1992	\$1,980
Y	1090405	COMPUTER	CLON	386	1992	\$800
Y	801617	COMPUTER	HP	300	1993	\$10,000
N	1256351	COMPUTER	NORTHGATE	486	1993	\$8,305
Y	1254801	COMPUTER	APPLE	M4300	1993	\$7,930
N	141749	COMPUTER	HEWLETT-PACKARD	98561X	1993	\$3,971
Y	1256921	COMPUTER	GATEWAY	486	1993	\$3,920
Y	1256941	COMPUTER	GATEWAY	486	1993	\$3,645
N	1159588	COMPUTER	GMR	486/33	1993	\$2,677
Y	1160364	COMPUTER	GMR	486	1993	\$2,626
N	1159726	COMPUTER	IMS	7408	1993	\$2,051
Y	1258660	COMPUTER	GATEWAY	486	1993	\$1,469
Y	61566	COMPUTER	CLON	286	1993	\$1,400
Y	1255044	COMPUTER	GATEWAY 2000	486	1993	\$1,385
Y	259890	COMPUTER	HITECH	3001	1993	\$1,053
N	1260405	COMPUTER	APPLIED DIGITAL	486/50	1994	\$3,180

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1261343	COMPUTER	GATEWAY	4DX2-66V	1994	\$2,466
Y	1262686	COMPUTER	CLON	486	1994	\$2,327
Y	1260811	COMPUTER	GATEWAY 2000	4DX-33V	1994	\$1,785
Y	1261306	COMPUTER	COMPUTER TEC	486/66	1994	\$1,558
Y	1261672	COMPUTER	NOTHGATE	486	1994	\$1,103
Y	1424207	COMPUTER	APPLE	M1688	1995	\$4,425
Y	1424032	COMPUTER	APPLE	M2391	1995	\$2,434
Y	1423568	COMPUTER	HP	VL24/50E	1995	\$2,000
N	1739660	COMPUTER	DOLCH COMPUTER SYSTEMS	PAC 586	1996	\$9,160
N	1739659	COMPUTER	DOLCH COMPUTER SYSTEMS	PAC 586	1996	\$9,160
N	1739658	COMPUTER	DOLCH COMPUTER SYSTEMS	PAC 586	1996	\$9,160
Y	1426071	COMPUTER	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426069	COMPUTER	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426068	COMPUTER	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426066	COMPUTER	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426065	COMPUTER	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1874997	COMPUTER	DELL	SMS	1997	\$4,347
Y	1741927	COMPUTER	GATEWAY	BATC	1997	\$1,260
Y	1742966	COMPUTER	GATEWAY 2000	BATC	1997	\$1,235
Y	1741926	COMPUTER	GATEWAY	BATC	1997	\$1,160
Y	1741542	COMPUTER	PNC	PENT	1997	\$845
N	1090160	COMPUTER	ZEOS	486-33/8	1991	\$5,210
N	1878669	COMPUTER	APPLE	M4405	1998	\$2,810
Y	NONE	COMPUTER	DELL	MCM/L550R	N/A	\$1,100
Y	NONE	COMPUTER CART	GLOBAL	C5556	N/A	\$213
Y	258886	COMPUTER EXPANDER	HP	98568A	1986	\$1,444
Y	1431936	COMPUTER EXPANDER	HP	98568A	1988	\$1,793
Y	848742	COMPUTER EXPANDER	HP	98570A	1989	\$1,865
Y	141747	COMPUTER EXPANDER	HEWLETT-PACKARD	98568A	1993	\$3,971
Y	1431935	COMPUTER EXPANDER	HP	98562A	1996	\$2,067
N	803291	COMPUTER MODULE	MOTOROLA	MVME187	1994	\$7,995
N	1426060	COMPUTER SERVER	SUN MICRO	A11-140	1996	\$12,500
N	2100996	COMPUTER SERVER	SUN MICRO	450	2002	\$19,020
Y	53087	COMPUTER SUPERMINI	MODCOMP	32/87	1987	\$114,345
Y	803134	COMPUTER TERMINAL	HUMAN DESIGN SYSTEMS	FX25-19CT	1994	\$3,288
N	G078210	COMPUTER TERMINAL	NETWORK COMPUTING DEVICES	NCD17C	1990	\$1,270
N	1430785	COMPUTER W/ KEYBOARD	MICRON ELECTRONICS	M55HIPLUS-P166-T	1996	\$4,595
Y	1426078	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426077	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426074	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426073	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426072	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426070	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426067	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	1426064	COMPUTER/ KEYBOARD	PONY COMPUTERS	PENTIUM	1996	\$1,618
Y	NONE	CONDENSER	GENRAD	722D	N/A	\$208
Y	1259964	CONDUCTIVE BR	L & N	4959	1980	\$1,068
N	281017	CONSOLE CONTROL	UNHOLTZ DICKIE	MA311	1987	\$7,930
Y	NONE	CONT ALT CHAMB	CRONN	NONE	N/A	\$250
Y	NONE	CONTROL BOX	NASA	Q-FLEX	N/A	\$500
Y	NONE	CONTROL BOX	NASA	Q-FLEX	N/A	\$500
Y	NONE	CONTROL BOX	NASA	Q-FLEX	N/A	\$500
Y	NONE	CONTROL BOX	NASA	Q-FLEX	N/A	\$500
N	1259857	CONTROL CHASIS	INLAND	403	NONE	\$12,000
Y	NONE	CONTROL VALVE	MKS INSTRUMENTS	245-S0037-86	N/A	\$1,695
Y	A007762	CONTROL VALVE	MKS	245-11179	NONE	\$1,695
Y	778854	CONTROLLER	NICOLET	204A	1986	\$3,567
N	21237	CONTROLLER	ARGO	AS210-01A	1990	\$5,147
Y	G074571	CONTROLLER	RUSKA	3893-801	1990	\$1,680
N	20863	CONTROLLER	MOTOROLA	HCN1036E9000	1990	\$512
N	20862	CONTROLLER	MOTOROLA	HCN1036E9000	1990	\$512
N	20861	CONTROLLER	MOTOROLA	HCN1036E9000	1990	\$512
N	20860	CONTROLLER	MOTOROLA	HCN1036E9000	1990	\$512
Y	1092238	CONTROLLER	HART SCIENTIFIC	2100	1992	\$1,300
Y	NONE	CONTROLLER	VEECO	RG-31X	N/A	\$573
Y	NONE	CONTROLLER	VOLUMETRICS	VIR	N/A	\$400
Y	NONE	CONTROLLER	VOLUMETRICS	V-1R	N/A	\$250
Y	NONE	CONTROLLER	VOLUMETRICS	V-1R	N/A	\$250
Y	NONE	CONTROLLER	VOLUMETRICS	V-1R	N/A	\$250
N	1091023	CONTROLLER PRESSURE	PSI	8400SP	1992	\$11,220
Y	19639	CONTROLLER TEMPERATURE	WEST	2071-02-1127-21	1987	\$680
N	1259859	CONVERTER	HP	59303A	1977	\$1,625
Y	281798	CONVERTER	NICOLET	3010	1985	\$795
Y	427046	COUNTER	HEWLETT-PACKARD	5245L	1970	\$2,480
Y	1259735	COUNTER	HP	5245L	1973	\$2,984
Y	1259737	COUNTER	HP	5245L	1973	\$2,962
Y	1259743	COUNTER	HP	5245L	1974	\$2,984
Y	527504	COUNTER	HEWLETT-PACKARD	5245L	1975	\$3,000
Y	469958	COUNTER	HEWLETT-PACKARD	5245L	1977	\$2,480
Y	1259996	COUNTER	HP	5328A	1980	\$1,364
Y	1259956	COUNTER	HP	5245L	1981	\$2,981



## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1259792	COUNTER	HP	5245L	1981	\$2,962
Y	NONE	COUNTER	HP	5512A	N/A	\$982
Y	NONE	COUNTER	HP	5302A	N/A	\$900
Y	1259972	COUNTER	HP	5300A	NONE	\$1,183
Y	55687	COUNTER FREQUENCY	RACAL DANA	1995	1988	\$3,600
Y	NONE	COUNTER PLUG-IN	HP	5302A	N/A	\$272
Y	NONE	COUNTER SYSTEM	HP	5300A	N/A	\$391
Y	NONE	COUNTER SYSTEM	HP	5300A	N/A	\$391
Y	NONE	CPU EXTENDER CARD	FLUKE	5700A-3105	N/A	\$204
Y	NONE	CRIMPING TOOL KIT	DANIELS MFG	M83507/7-01	N/A	\$920
Y	NONE	CURRENT PROBE	TEKTRONIX	P6022	N/A	\$326
Y	NONE	CURRENT PROBE	FLUKE	Y8100	N/A	\$259
Y	A017296	CURRENT SHUNT	FLUKE	Y5020	1997	\$700
Y	NONE	CURRENT SHUNT	HOLT	HCS1	N/A	\$884
Y	1259872	CURRENT SOURCE	DIGITEC	3110	1979	\$1,256
Y	57952	CURRENT SOURCE	KEITHLEY	220	1988	\$3,067
Y	60220	CURRENT SOURCE	KEITHLEY	220	1989	\$3,067
Y	NONE	CURRENT SOURCE	KEITHLEY	261	N/A	\$629
Y	1259754	CURVE TRACER	TEKTRONIX	577	1976	\$2,377
Y	NONE	CYLINDER	PYREX	2982	N/A	\$30
Y	NONE	CYLINDER GAS	AIR PRODUCTS	NONE	N/A	\$134
Y	NONE	CYLINDER GAS	AIR PRODUCTS	C	N/A	\$134
Y	NONE	CYLINDER HAND TRUCK	HARPER	65000469	N/A	\$105
Y	NONE	CYLINDER STAND	TROEMNER	65000472	N/A	\$105
Y	NONE	CYLINDER STAND	TROEMNER	65000472	N/A	\$105
Y	802880	DAT 2919 MAG TAPE	ARCHIVE	4350XT	1993	\$2,147
N	848629	DATA ACQUISITION CONTOLLER	NEFF	620519	1989	\$21,024
N	1259973	DATA ACQUISITION SYSTEM	HP	3050B	1976	\$10,091
N	58811	DATA ACQUISITION SYSTEM	HP	3497A	1988	\$6,580
Y	58616	DATA ACQUISITION SYSTEM	HP	3497A	1988	\$5,939
N	848630	DATA ACQUISITION SYSTEM	NEFF	620600AD	1989	\$42,048
N	1255117	DATA ACQUISITION SYSTEM	HEWLETT-PACKARD	3852A	1993	\$3,581
N	284857	DATA ACQUISITION SYSTEM	NEFF	620100AB	1983	\$30,605
N	848469	DATA ACQUISITION SYSTEM	NEFF	620600AE	1990	\$20,488
Y	548608	DATA TEST SET	TEKTRONIX	834	1984	\$3,990
Y	G077675	DATA TEST SET	TEKTRONIX	834	1990	\$2,232
Y	1259639	DC DIFFERENTIAL VOLTMETER	FLUKE	895A	1979	\$2,168
N	G077497	DC ELECTRONIC LOAD	HP	6060A	1990	\$1,795
Y	NONE	DC MILLIAMMETER	HP	428B	N/A	\$607
Y	NONE	DC POWER SUPPLY	HP	6255A	N/A	\$642
Y	NONE	DC POWER SUPPLY	HP	6102A	N/A	\$362
N	141803	DC REFERENCE STANDARD	FLUKE	732A	1987	\$3,055
N	1255445	DC REFERENCE STANDARD	FLUKE	732A	1992	\$8,000
N	1374474	DC REFERENCE STANDARD	FLUKE	732B	1994	\$3,619
Y	NONE	DC VOLT AMMETER	HP	425A	N/A	\$512
Y	1259839	DC VOLTAGE CALIBRATOR	FLUKE	343A	1976	\$1,935
Y	1259748	DC VOLTAGE CALIBRATOR	FLUKE	343A	1976	\$1,935
Y	1259752	DC VOLTAGE CALIBRATOR	FLUKE	343A	1977	\$2,129
Y	1259611	DC VOLTAGE DETECTOR	ESI	801	1975	\$1,314
Y	1259605	DC VOLTAGE STANDARD	FLUKE	332B	1973	\$2,295
Y	1259627	DC VOLTAGE STANDARD	FLUKE	335D	1976	\$3,584
Y	1259826	DC VOLTAGE STANDARD	EDC	CR103	1983	\$1,850
Y	NONE	DC VOLTAGE STANDARD	EDC	VS-111N	N/A	\$845
Y	NONE	DC VOLTMETER	SENSITIVE RESEARCH	ESD	N/A	\$236
Y	1259866	DEAD WEIGHT	M & G	T-150	1975	\$1,363
Y	NONE	DEAD WEIGHT TEST	MANSFIELD GREEN	T130	N/A	\$686
N	138318	DEAD WEIGHT TESTER	DH INSTRUMENTS	5306	1987	\$29,046
Y	NONE	DEAD WEIGHT TESTER	AMTHOR	UNKNOWN	N/A	\$418
Y	C000529	DEAD WEIGHT TESTER	AMTHOR	460	NONE	\$500
N	1259689	DEAD WT TESTER	RUSKA	5100	1973	\$9,180
Y	A017293	DECADE ATTENUATOR	GENRAD	1450TB	1997	\$375
Y	NONE	DECADE ATTENUATOR	GENRAD	1450TBR	N/A	\$395
Y	NONE	DECADE ATTENUATOR	GENRAD	1450TB	N/A	\$375
Y	NONE	DECADE CAP	CORNELL-DUBILIER	CDA5	N/A	\$26
Y	NONE	DECADE CAP	CORNELL-DUBILIER	CDC3	N/A	\$25
Y	NONE	DECADE CAP	CORNELL-DUBILIER	CDB3	N/A	\$25
Y	NONE	DECADE CAPACITOR	GENRAD	1419A	N/A	\$180
Y	NONE	DECADE DIVIDER	GENRAD	1454A	N/A	\$600
Y	NONE	DECADE INDUCTOR	GENRAD	1490F	N/A	\$635
Y	NONE	DECADE INDUCTOR	GENRAD	1490F	N/A	\$587
Y	NONE	DECADE RES	SHALLCROSS	6863	N/A	\$180
Y	NONE	DECADE RESIS	VISHAY	1301	N/A	\$265
Y	NONE	DECADE RESIST	SHALLCROSS	6863	N/A	\$267
Y	NONE	DECADE RESISTOR	VISHAY	1301	N/A	\$265
Y	NONE	DECADE RESISTOR	GENRAD	1432-B	N/A	\$220
Y	NONE	DECADE RESISTOR	SHALLCROSS	6863	N/A	\$190
Y	NONE	DECADE RESISTOR	GENRAD	1433W	N/A	\$177
Y	NONE	DECADE RESISTOR	GENRAD	1432P	N/A	\$156
Y	NONE	DECADE RESISTOR	GENRAD	1432-P	N/A	\$154
Y	NONE	DECADE RESISTOR	GENRAD	1432P	N/A	\$154
Y	NONE	DECADE RESISTOR	GENRAD	1432M	N/A	\$154

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	DECADE RESISTOR	GENRAD	1432X	N/A	\$100
Y	NONE	DECADE VOLTAGE DIVIDER	GERTSCH	1011	N/A	\$562
Y	NONE	DECADE VOLTAGE DIVIDER	FLUKE	80E	N/A	\$350
Y	NONE	DECADE VOLTAGE DIVIDER	GENRAD	1454A	N/A	\$163
Y	NONE	DECADE VOLTAGE DIVIDER	GENRAD	1454A	N/A	\$162
Y	NONE	DECADE VOLTAGE DIVIDER	GENRAD	1454-A	N/A	\$161
Y	NONE	DELAY TIME BASE	TEKTRONIX	7B71	N/A	\$775
Y	NONE	DELAYING TIME BASE	TEKTRONIX	7B71	N/A	\$775
Y	549878	DEMODULATOR	VIDEOTEK	DM-40-R	1984	\$1,270
Y	60150	DESOLDERING STATION	PACE	PRC-151	1989	\$1,375
Y	NONE	DESOLDERING STATION	PACE	MP-1	N/A	\$480
Y	A007607	DESOLDERING UNIT	PACE	MP-1	1994	\$495
Y	NONE	DETECTOR	TEKTRONIX	067-0625-00	N/A	\$120
Y	280295	DEWPOINT HYGROMETER	EG&G	300	1985	\$9,245
N	141663	DEWPOINT HYGROMETER	EG&G	300	1987	\$10,265
Y	NONE	DIAGNOSTIC SOFTWARE	FOREFRONT DIRECT	THE TROUBLESHOOTER	N/A	\$269
Y	NONE	DIAGNOSTIC SOFTWARE	FOREFRONT DIRECT	THE TROUBLESHOOTER	N/A	\$269
Y	NONE	DIAL GAGE	WALLACE & TIERNAN	FA160	N/A	\$194
Y	NONE	DIAL INDICATOR	STOSS	NONE	N/A	\$125
Y	NONE	DIAL-A-SOURCE	GENERAL RESISTANCE	DAS-46	N/A	\$875
Y	NONE	DIFFERENTIAL AMPLIFIER	TEKTRONIX	7A22	N/A	\$610
Y	19959	DIFFERENTIAL COMPARATOR	TEKTRONIX	7A13	1981	\$2,456
Y	803478	DIFFERENTIAL COMPARATOR	TEKTRONIX	7A13	1984	\$1,922
Y	NONE	DIFFERENTIAL MULTIMETER	FLUKE	853A	N/A	\$480
Y	NONE	DIFFERENTIAL MULTIMETER	FLUKE	853A	N/A	\$240
Y	1259767	DIFFERENTIAL VOLTMETER	FLUKE	883AB	1973	\$1,379
Y	1259740	DIFFERENTIAL VOLTMETER	FLUKE	823A	1973	\$1,220
Y	221470	DIFFERENTIAL VOLTMETER	FLUKE	895A	1986	\$4,747
Y	NONE	DIGI-PROBE MULTIMETER	TRIPLETT	3525	N/A	\$65
Y	NONE	DIGI-PROBE MULTIMETER	TRIPLETT	3525	N/A	\$65
Y	56198	DIGITAL ANGLE INDICATOR	TRANSMATICS	2632CC-44SEL/488	1988	\$3,132
N	778630	DIGITAL DELAY GENERATOR	ARGO SYSTEMS	AS210-04	1986	\$4,775
N	21240	DIGITAL DELAY GENERATOR	ARGO	AS210-04	1990	\$5,390
Y	NONE	DIGITAL I/O CONTROLLER	NATIONAL INSTRUMENTS	PXI-8155B	N/A	\$2,545
Y	NONE	DIGITAL I/O CONTROLLER	NATIONAL INSTRUMENTS	PXI-8155B	N/A	\$2,545
Y	NONE	DIGITAL I/O CONTROLLER	NATIONAL INSTRUMENTS	PXI-8155B	N/A	\$2,545
N	1875214	DIGITAL I/O SYSTEM	NATIONAL INSTRUMENTS	PXI-1000B	1999	\$10,928
Y	M033303	DIGITAL INPUT CHASSIS	WYLE	9110	1991	\$2,000
Y	1259783	DIGITAL MULTIMETER	FLUKE	8800A	1979	\$1,151
N	1259662	DIGITAL MULTIMETER	KEITHLEY	181	1983	\$3,463
Y	1259851	DIGITAL MULTIMETER	HP	3478A	1983	\$1,248
Y	1259659	DIGITAL MULTIMETER	HP	3478A	1983	\$1,248
Y	549049	DIGITAL MULTIMETER	FLUKE	8810A	1984	\$1,218
Y	549642	DIGITAL MULTIMETER	FLUKE	8810A	1984	\$1,218
Y	549629	DIGITAL MULTIMETER	FLUKE	8810-A	1984	\$1,100
Y	533189	DIGITAL MULTIMETER	KEITHLEY	195A	1985	\$1,315
Y	220900	DIGITAL MULTIMETER	FLUKE	8062A	1986	\$266
N	140773	DIGITAL MULTIMETER	HP	3457A	1987	\$2,674
Y	140853	DIGITAL MULTIMETER	HP	3457A	1987	\$2,646
N	139883	DIGITAL MULTIMETER	FLUKE	8842A	1987	\$1,071
N	58122	DIGITAL MULTIMETER	HP	3457A	1988	\$2,779
N	55763	DIGITAL MULTIMETER	HP	3457A	1988	\$2,731
N	55597	DIGITAL MULTIMETER	FLUKE	8842A/05	1988	\$1,145
Y	A016181	DIGITAL MULTIMETER	FLUKE	77	1988	\$131
Y	59889	DIGITAL MULTIMETER	HEWLETT-PACKARD	3458A	1989	\$6,782
Y	59953	DIGITAL MULTIMETER	HP	3458A	1989	\$6,311
Y	61803	DIGITAL MULTIMETER	FLUKE	8842A	1989	\$1,395
Y	61798	DIGITAL MULTIMETER	FLUKE	8842A	1989	\$1,395
N	G078456	DIGITAL MULTIMETER	HP	3458A	1990	\$5,687
N	849008	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,395
Y	849007	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,395
Y	849006	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,395
Y	G076169	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,273
Y	G076164	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,273
Y	G076160	DIGITAL MULTIMETER	FLUKE	8842A	1990	\$1,273
Y	1089352	DIGITAL MULTIMETER	FLUKE	8842A	1991	\$1,170
Y	1158052	DIGITAL MULTIMETER	KEITHLEY	199	1992	\$1,392
Y	1089461	DIGITAL MULTIMETER	FLUKE	45/05	1992	\$628
Y	801500	DIGITAL MULTIMETER	FLUKE	87	1992	\$261
Y	1158040	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
Y	1158039	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
Y	1158038	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
Y	1089474	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
Y	1089467	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
Y	1089463	DIGITAL MULTIMETER	FLUKE	77	1992	\$143
N	1159695	DIGITAL MULTIMETER	HEWLETT-PACKARD	3458A	1993	\$6,199
Y	1158057	DIGITAL MULTIMETER	KEITHLEY	199	1993	\$1,398
Y	1158079	DIGITAL MULTIMETER	FLUKE	8842A/059	1993	\$1,300
N	1158077	DIGITAL MULTIMETER	FLUKE	8842A/05	1993	\$1,096
Y	801511	DIGITAL MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$995
Y	801510	DIGITAL MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$995

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1158078	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	1158076	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	1158075	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	1158074	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	1158073	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	1158072	DIGITAL MULTIMETER	FLUKE	77	1993	\$143
Y	54469	DIGITAL MULTIMETER	FLUKE	8060A	1994	\$351
Y	NONE	DIGITAL MULTIMETER	HP	3458A	N/A	\$6,616
Y	NONE	DIGITAL MULTIMETER	FLUKE	8800A	N/A	\$973
Y	NONE	DIGITAL MULTIMETER	FLUKE	8800A	N/A	\$973
Y	NONE	DIGITAL MULTIMETER	FLUKE	8800A	N/A	\$955
Y	NONE	DIGITAL MULTIMETER	FLUKE	8800A	N/A	\$955
Y	NONE	DIGITAL MULTIMETER	FLUKE	853A	N/A	\$480
Y	NONE	DIGITAL MULTIMETER	TEKTRONIX	DM501	N/A	\$460
Y	NONE	DIGITAL MULTIMETER	DATA PRECISION	245	N/A	\$280
Y	NONE	DIGITAL MULTIMETER	FLUKE	8020A	N/A	\$182
Y	NONE	DIGITAL MULTIMETER	FLUKE	8020A	N/A	\$182
Y	NONE	DIGITAL MULTIMETER	FLUKE	8020A	N/A	\$182
Y	NONE	DIGITAL MULTIMETER	FLUKE	77	N/A	\$138
Y	NONE	DIGITAL MULTIMETER	FLUKE	77	N/A	\$138
Y	NONE	DIGITAL MULTIMETER	FLUKE	77	N/A	\$138
Y	NONE	DIGITAL MULTIMETER	FLUKE	77	N/A	\$138
Y	NONE	DIGITAL MULTIMETER	KEITHLEY	130	N/A	\$124
Y	1259852	DIGITAL MULTIMETER	HP	3478A	NONE	\$1,248
Y	1259660	DIGITAL MULTIMETER	HP	3478A	NONE	\$1,248
Y	1089462	DIGITAL MULTIMETER	FLUKE	8842A	NONE	\$1,170
Y	140539	DIGITAL MULTIMETER	HP	3478A	NONE	\$940
Y	1428001	DIGITAL MULTIMETER	HP	3478A	NONE	\$937
Y	1159851	DIGITAL MULTIMETER	HP	3478A	NONE	\$937
Y	282112	DIGITAL MULTIMETER	FLUKE	8840A	NONE	\$930
Y	281501	DIGITAL MULTIMETER	FLUKE	8840A	NONE	\$790
Y	281500	DIGITAL MULTIMETER	FLUKE	8840A	NONE	\$790
Y	139732	DIGITAL MULTIMETER	KEITHLEY	177/1788	NONE	\$745
Y	549877	DIGITAL MULTIMETER	KEITHLEY	177	NONE	\$650
Y	281934	DIGITAL MULTIMETER	FLUKE	8060A	NONE	\$349
Y	281933	DIGITAL MULTIMETER	FLUKE	8060A	NONE	\$349
Y	220889	DIGITAL MULTIMETER	FLUKE	8060A	NONE	\$314
Y	220902	DIGITAL MULTIMETER	FLUKE	8062A	NONE	\$266
Y	220901	DIGITAL MULTIMETER	FLUKE	8062A	NONE	\$266
Y	37596	DIGITAL MULTIMETER	FLUKE	87	NONE	\$261
Y	21828	DIGITAL MULTIMETER	FLUKE	87	NONE	\$261
Y	21282	DIGITAL MULTIMETER	FLUKE	87	NONE	\$251
Y	21281	DIGITAL MULTIMETER	FLUKE	87	NONE	\$251
Y	21280	DIGITAL MULTIMETER	FLUKE	87	NONE	\$251
Y	1089473	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089472	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089471	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089470	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089469	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089468	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089466	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089465	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	1089464	DIGITAL MULTIMETER	FLUKE	77	NONE	\$180
Y	848934	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848933	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848932	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848931	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848930	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848929	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848928	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848927	DIGITAL MULTIMETER	FLUKE	77	NONE	\$143
Y	848937	DIGITAL MULTIMETER	FLUKE	23	NONE	\$143
Y	848936	DIGITAL MULTIMETER	FLUKE	23	NONE	\$143
Y	848935	DIGITAL MULTIMETER	FLUKE	23	NONE	\$143
Y	G073553	DIGITAL MULTIMETER	FLUKE	23	NONE	\$143
Y	55046	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55044	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55043	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55042	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55041	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55038	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	55037	DIGITAL MULTIMETER	FLUKE	77	NONE	\$130
Y	533204	DIGITAL MULTIMETER	FLUKE	77	NONE	\$129
Y	220897	DIGITAL MULTIMETER	FLUKE	77	NONE	\$116
Y	220896	DIGITAL MULTIMETER	FLUKE	77	NONE	\$116
Y	220895	DIGITAL MULTIMETER	FLUKE	77	NONE	\$116
Y	220893	DIGITAL MULTIMETER	FLUKE	77	NONE	\$116
Y	140357	DIGITAL MULTIMETER	FLUKE	77	NONE	\$107
Y	140356	DIGITAL MULTIMETER	FLUKE	77	NONE	\$107
Y	140354	DIGITAL MULTIMETER	FLUKE	77	NONE	\$107
Y	140352	DIGITAL MULTIMETER	FLUKE	77	NONE	\$107

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	140351	DIGITAL MULTIMETER	FLUKE	77	NONE	\$107
Y	1259841	DIGITAL OSCILLOSCOPE	NICOLET	1090A	1981	\$6,547
N	G074492	DIGITAL OSCILLOSCOPE	HITACHI	VC6165	1990	\$5,568
N	G074491	DIGITAL OSCILLOSCOPE	HITACHI	VC6165	1990	\$5,568
N	1261649	DIGITAL OSCILLOSCOPE	HP	54702D	1994	\$4,440
N	1261516	DIGITAL PHASEMETER	KROHN HITE	6620-2	1994	\$3,945
Y	1259878	DIGITAL PRESSURE GAGE	MENSOR	11900	1982	\$2,375
Y	848272	DIGITAL PRESSURE GAGE	RUSKA	6211-804-721	1989	\$3,980
Y	258240	DIGITAL PRINTER	HP	2686A	1986	\$2,677
Y	55553	DIGITAL PRINTER	HP	33440A	1988	\$1,739
Y	57708	DIGITAL PRINTER	EPSON	P70RA	1988	\$400
Y	57712	DIGITAL PRINTER	EPSON	P70RA	1988	\$300
Y	57707	DIGITAL PRINTER	EPSON	P70RA	1988	\$300
Y	57706	DIGITAL PRINTER	EPSON	P70RA	1988	\$300
Y	NONE	DIGITAL PRINTER	EPSON	FX1050	N/A	\$471
N	1259718	DIGITAL SCALE	JAKING	DS1-30K	1982	\$1,670
Y	778853	DIGITAL STORAGE OSCILLOSCOPE	NICOLET	2090 III	1986	\$6,050
Y	A007578	DIGITAL THERMOHYGROMETER	OMEGA ENGINEERING	RH70	1994	\$648
Y	A007577	DIGITAL THERMOHYGROMETER	OMEGA ENGINEERING	RH70	1994	\$648
Y	428459	DIGITAL THERMOMETER	FLUKE	2190A	1983	\$1,299
Y	281932	DIGITAL THERMOMETER	FLUKE	2190A	1985	\$1,045
Y	281931	DIGITAL THERMOMETER	FLUKE	2190A	1985	\$1,045
Y	281930	DIGITAL THERMOMETER	FLUKE	2190A	1985	\$1,045
N	142196	DIGITAL THERMOMETER	INSTRULAB	4202	1987	\$2,845
Y	58597	DIGITAL THERMOMETER	INSTRULAB	4221-B-8	1988	\$4,080
Y	G078724	DIGITAL THERMOMETER	FLUKE	2190A1	1990	\$1,085
Y	54470	DIGITAL THERMOMETER	FLUKE	52 K/J	1996	\$169
Y	NONE	DIGITAL THERMOMETER	FLUKE	52	N/A	\$170
Y	61953	DIGITAL THERMOMETER	FLUKE	2190A	NONE	\$1,761
Y	527482	DIGITAL THERMOMETER	FLUKE	2190A	NONE	\$1,299
Y	463624	DIGITAL THERMOMETER	FLUKE	2190A	NONE	\$1,273
Y	532112	DIGITAL THERMOMETER	FLUKE	2190A	NONE	\$1,052
Y	139874	DIGITAL THERMOMETER	FLUKE	52 K/J	NONE	\$189
Y	54578	DIGITAL THERMOMETER	FLUKE	52 K/J	NONE	\$169
Y	NONE	DIGITAL TIME BASE	TEKTRONIX	5B31	N/A	\$602
Y	1259741	DIGITAL VOLTMETER	FLUKE	8300A	1974	\$1,639
Y	1259733	DIGITAL VOLTMETER	FLUKE	8300A	1975	\$2,701
N	1259631	DIGITAL VOLTMETER	HP	3455A	1977	\$3,168
N	1259693	DIGITAL VOLTMETER	HP	3455A	1979	\$2,968
Y	1259663	DIGITAL VOLTMETER	HP	3456A	1983	\$3,552
N	56986	DIGITAL VOLTMETER	KEITHLEY	181	1988	\$3,067
Y	NONE	DIGITAL VOLTMETER	HP	5265A	N/A	\$825
Y	NONE	DIRECTIONAL COUPLER	HEWLETT-PACKARD	87300C	N/A	\$976
Y	NONE	DIRECTIONAL COUPLER	HEWLETT-PACKARD	87300C	N/A	\$976
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3142-20	N/A	\$300
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3022	N/A	\$275
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3022	N/A	\$275
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3020	N/A	\$275
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3045C-10	N/A	\$250
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3044B-10	N/A	\$200
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3044B-10	N/A	\$200
Y	NONE	DIRECTIONAL COUPLER	PRD ELECTRONICS	430-10	N/A	\$150
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3004-30	N/A	\$150
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3004-20	N/A	\$150
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3003-10	N/A	\$150
Y	NONE	DIRECTIONAL COUPLER	NARDA MICROWAVE	3003-10	N/A	\$150
Y	548029	DISK DRIVE	HEWLETT-PACKARD	9133V	1984	\$2,158
Y	281189	DISK DRIVE	HP	9122D	1985	\$1,500
Y	281583	DISK DRIVE	HP	9122D	1985	\$1,217
Y	281155	DISK DRIVE	HP	9122	1985	\$955
Y	281993	DISK DRIVE	HP	9122D	1985	\$904
Y	258270	DISK DRIVE	HP	7945A	1986	\$4,560
Y	284629	DISK DRIVE	HP	9122D	1986	\$1,050
Y	258800	DISK DRIVE	HP	9122D	1986	\$851
Y	259072	DISK DRIVE	HP	9123D	1986	\$461
Y	139707	DISK DRIVE	HP	7945A	1987	\$4,560
Y	848685	DISK DRIVE	IEM INC	H5HP300H	1989	\$4,496
Y	849301	DISK DRIVE	IEM INC	5365	1990	\$6,750
N	G073932	DISK DRIVE	HEWLETT-PACKARD	9153C	1990	\$1,672
N	1085864	DISK DRIVE	PANASONIC	LF5010	1991	\$2,339
Y	1087164	DISK DRIVE	MATSUSHITA	LF5010	1991	\$2,315
N	802211	DISK DRIVE	SEAGATE	ST1480N	1993	\$3,436
N	1262775	DISK DRIVE	SEAGATE	ST42100N	1993	\$1,444
Y	801618	DISK DRIVE	HP	9122C	1993	\$981
Y	37584	DISK DRIVE	ANDATACO	X266T51-JX2S1X	1996	\$553
N	G077752	DISK DRIVE UNIT	SIGMA INFORMATION SYSTEMS	H189-100	1990	\$2,040
Y	1426096	DISK DRIVE UNIT	APPLIED DIGITAL SYSTEMS	ADLCAN	1996	\$999
Y	1425988	DISK EXPANSION UNIT	LION AMERICA	LION-821B	1996	\$650
N	1257937	DISK-ARRAY	CITA TECH	H212/D	1993	\$6,068
Y	1091138	DISK-OPTICAL	APPLE	M3021	1992	\$549
N	143856	DISK-REMOVABLE	CONTROL DATA	PA3A1A	1987	\$7,159

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	138919	DISK-WINCHESTER	APPLE	HD205C	1986	\$1,075
N	140222	DISK-WINCHESTER	CONTROL DATA	PA5A1A	1987	\$6,480
Y	140586	DISK-WINCHESTER	APPLE	HD205C	1987	\$966
Y	140383	DISK-WINCHESTER	RODIME	S20+	1987	\$850
N	57193	DISK-WINCHESTER	FUJITSU	M2361A	1988	\$8,375
Y	G074567	DISK-WINCHESTER	CMS	STACK3	1990	\$489
Y	1259833	DISPLAY	HP	141T	1981	\$12,903
Y	404709	DISPLAY	IBM	5151	1983	\$242
Y	549146	DISPLAY	IBM	5151	1984	\$244
Y	548633	DISPLAY	IBM	5151	1984	\$192
Y	282137	DISPLAY	IBM	5151	1985	\$260
Y	282315	DISPLAY	IBM	5151	1985	\$220
Y	258929	DISPLAY	HP	35731A	1986	\$796
Y	258797	DISPLAY	HP	35721	1986	\$796
Y	257520	DISPLAY	MAGNAVOX	TY11	1986	\$500
Y	221327	DISPLAY	IBM	5151	1986	\$187
Y	52996	DISPLAY	HP	35741A	1987	\$800
Y	142325	DISPLAY	NEC	JC1401	1987	\$600
Y	141859	DISPLAY	IBM	5151	1987	\$220
Y	58489	DISPLAY	HP	98785A	1988	\$6,201
Y	54909	DISPLAY	NEC	JC-1501VMA	1988	\$927
Y	56060	DISPLAY	APPLE	MC2RGB	1988	\$753
Y	55632	DISPLAY	NEC	JC-1402HMA	1988	\$750
Y	57073	DISPLAY	NEC	JC1402	1988	\$496
Y	57176	DISPLAY	EVERVISION	MN200	1988	\$400
Y	61040	DISPLAY	APPLE	MC2RGB	1989	\$699
Y	846806	DISPLAY	APPLE	MC2RGB	1989	\$679
Y	847586	DISPLAY	APPLE	MC2RGB	1989	\$659
Y	G073819	DISPLAY	NEC	JC-1601VMA	1990	\$1,105
Y	848944	DISPLAY	APPLE	MC2RGB	1990	\$659
Y	G074004	DISPLAY	APPLE	MC2RGB	1990	\$625
Y	60935	DISPLAY	STANDARD	4095N	1990	\$475
Y	G078893	DISPLAY	PGS	ULTRA 16	1990	\$400
Y	G075852	DISPLAY	SONY	CPD1320	1990	\$400
Y	G079532	DISPLAY	MITSUBISHI	AUM1381A	1990	\$400
Y	G077314	DISPLAY	NEC	CZ805A	1990	\$300
Y	1086942	DISPLAY	SUPERMAC TECHNOLOGY	STD9750	1991	\$2,720
N	1089579	DISPLAY	NETWORK COMPUTING DEVICES	17C	1991	\$2,625
Y	549407	DISPLAY	IBM	5153	1991	\$476
Y	1088647	DISPLAY	GATEWAY 2000	PMV1448	1991	\$400
Y	1088262	DISPLAY	GATEWAY 2000	PMV1448	1991	\$400
Y	1087792	DISPLAY	GATEWAY	PMV14	1991	\$400
Y	1085400	DISPLAY	COMPUADD	51086	1991	\$334
Y	1158119	DISPLAY	NEC	JC1741UMA	1992	\$1,339
Y	258798	DISPLAY	HP	35731	1992	\$796
Y	1092013	DISPLAY	APPLE	MC2RGB	1992	\$680
Y	57705	DISPLAY	STANDARD	4095N	1992	\$470
Y	A014104	DISPLAY	GATEWAY 2000	PMV1448NI	1992	\$400
Y	A014101	DISPLAY	GATEWAY 2000	PMV1448	1992	\$400
Y	1093364	DISPLAY	GATEWAY	PMV14	1992	\$400
Y	1256352	DISPLAY	RELISYS	9502	1993	\$1,500
Y	1256942	DISPLAY	CLON	MONO	1993	\$1,115
Y	1256920	DISPLAY	CLON	MONO	1993	\$1,115
Y	1255115	DISPLAY	HP	35741	1993	\$800
Y	1159701	DISPLAY	NEC	JC-1531VMA-1	1993	\$739
Y	1256568	DISPLAY	NEC	JC1531VMA2	1993	\$699
Y	1256943	DISPLAY	TATUNG	MM1222	1993	\$400
Y	1159438	DISPLAY	CTX INTERNATIONAL	CVP-5468N1	1993	\$400
Y	1256772	DISPLAY	COMPUADD	51118	1993	\$400
Y	1159509	DISPLAY	COMPUADD	51070	1993	\$328
Y	1159590	DISPLAY	SAMSUNG	CVM4967	1993	\$299
Y	1160365	DISPLAY	SAMSUNG	CM4967	1993	\$299
Y	141748	DISPLAY	HEWLETT-PACKARD	35731A	1993	\$217
N	803686	DISPLAY	HP	70004A	1994	\$9,210
N	1263224	DISPLAY	APPLE	M1823	1994	\$1,866
N	1260406	DISPLAY	MITSUBISHI	HC3925L9ETK	1994	\$1,798
Y	1260696	DISPLAY	NEC	JC1741UMA3	1994	\$1,228
Y	1260115	DISPLAY	APPLE	MC2RGB	1994	\$648
Y	1261673	DISPLAY	SAMSUNG	SM470	1994	\$400
Y	A014106	DISPLAY	SAMPO	KDM1466	1994	\$400
Y	A014102	DISPLAY	ADC INTERNATIONAL	CM-346	1994	\$265
Y	398582	DISPLAY	AMDEK	VIDEO-300	1994	\$180
N	1423999	DISPLAY	APPLE	M1823	1995	\$1,866
Y	60068	DISPLAY	STANDARD	4095N	1995	\$470
Y	1423569	DISPLAY	SAMSUNG	CVP4237P	1995	\$300
N	1426059	DISPLAY	SUN MICRO	GDM20E20	1996	\$2,000
Y	A014103	DISPLAY	CTX INTERNATIONAL	1562CLR	1996	\$330
Y	1431501	DISPLAY	MICRON ELECTRONICS	LM-1764	1996	\$310
Y	A016308	DISPLAY	GATEWAY 2000	CPD-GF100	1997	\$400
Y	A016300	DISPLAY	GATEWAY 2000	500CS	1997	\$400
Y	1741543	DISPLAY	ACER	7134T	1997	\$150

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	1261577	DISPLAY	NEC	JC2002VMA1	1991	\$4,655
Y	NONE	DISPLAY	TEKTRONIX	604	N/A	\$917
Y	NONE	DISPLAY	TEKTRONIX	604	N/A	\$895
Y	NONE	DISPLAY	DELL	D825HT	N/A	\$400
Y	NONE	DISPLAY	SUN MICRO	447Z	N/A	\$250
Y	NONE	DISPLAY	KOREA DATA SYSTEMS	VS-550	N/A	\$144
Y	NONE	DISPLAY	KOREA DATA SYSTEMS	VS-4D	N/A	\$129
Y	NONE	DISPLAY	DELL	M570	N/A	\$126
Y	NONE	DISPLAY	KOREA DATA SYSTEMS CO	VS-4D	N/A	\$125
Y	G074659	DISPLAY UNIT	SONY CORP OF AMERICA	CPD1320	1990	\$800
Y	1090448	DISPLAY UNIT	VIEWSONIC	7033	1992	\$345
Y	1259771	DISTORTION ANALYZER	HP	334A	1980	\$1,467
Y	1259770	DISTORTION ANALYZER	HP	334A	1980	\$1,467
N	1260007	DISTORTION ANALYZER	HP	339A	1984	\$1,877
N	G077498	DISTORTION ANALYZER	HP	8903E	1990	\$4,082
Y	NONE	DISTORTION ANALYZER	HP	334A	N/A	\$867
Y	1259960	DISTORTION MEASUREMENT SET	HP	339A	1982	\$2,485
N	1259861	DIVIDING HEAD	GRISWOLD	N/A	1973	\$3,520
Y	NONE	DOLLY/CART	HARPER TRUCKING INC	4WHEEL UPRIGHT	N/A	\$183
Y	NONE	DOSIMETER CHARGER	VICTOREEN	2000A	N/A	\$200
Y	NONE	DRAKE PRESS	DAKE	0	N/A	\$85
Y	NONE	DRILL	ROCKWELL	636	N/A	\$65
Y	NONE	DRILL PRESS	ROCKWELL	17-600	N/A	\$399
Y	NONE	DRILL PRESS	PRATT & WHITNEY	NONE	N/A	\$250
Y	NONE	DUAL DIRECTIONAL COUPLER	HP	777D	N/A	\$300
Y	NONE	DUAL DIRECTIONAL COUPLER	HP	777D	N/A	\$300
Y	A011203	DUAL HEATER CONTROLLER	LANGLEY	2 CHANNEL	NONE	\$750
Y	NONE	DUAL POWER SUPPLY	TEKTRONIX	PS503A	N/A	\$150
Y	NONE	DUAL POWER SUPPLY	TEKTRONIX	PS503A	N/A	\$150
Y	NONE	DUAL TIME AMPLIFIER	TEKTRONIX	7A26	N/A	\$1,050
Y	803425	DUAL TIME BASE	TEKTRONIX	7B92A	1976	\$1,430
Y	803443	DUAL TIME BASE	TEKTRONIX	7B92A	1977	\$1,400
Y	803424	DUAL TIME BASE	TEKTRONIX	7B53A	1982	\$1,250
Y	NONE	DUAL TIME BASE	TEKTRONIX	7B53A	N/A	\$850
Y	NONE	DUAL TIME BASE	TEKTRONIX	5B12N	N/A	\$228
Y	20088	DUAL TIME BASE	TEKTRONIX	7B92A	NONE	\$3,676
Y	21419	DUAL TIME BASE	TEKTRONIX	7B53A	NONE	\$1,098
Y	A001068	DUAL TIME BASE PLUG-IN	TEKTRONIX	7B92A	NONE	\$300
Y	803441	DUAL TRACE AMPLIFIER	TEKTRONIX	7A26	1977	\$1,050
Y	803472	DUAL TRACE AMPLIFIER	TEKTRONIX	7A26	1980	\$1,388
Y	777891	DUAL TRACE AMPLIFIER	TEKTRONIX	7A26	1980	\$1,388
Y	NONE	DUAL TRACE AMPLIFIER	TEKTRONIX	7A26	N/A	\$1,050
Y	NONE	DUAL TRACE AMPLIFIER	TEKTRONIX	7A18	N/A	\$535
Y	NONE	DUAL TRACE AMPLIFIER	TEKTRONIX	5A48	N/A	\$450
Y	NONE	DUPLEXER	CELWAVE	636-6A-3-4	N/A	\$395
Y	NONE	DUPLEXER	CELWAVE	636-6A-3-4	N/A	\$395
Y	NONE	DUST COLLECTOR	TORIT	66	N/A	\$422
Y	1259998	ELECT LEVEL	RANK TAYLOR HOBSON	112/753	1975	\$1,400
Y	NONE	ELECTRONIC VOLTMETER	B & K	2425	N/A	\$725
Y	NONE	ELECTROSTATIC VOLTMETER	SENSITIVE RESEARCH	ESD	N/A	\$275
Y	NONE	EMULATOR	CYBERNETIC	D210E-51	N/A	\$1,900
N	1085615	ENCODER	HEIDENHAIN	ROD800	1991	\$4,992
N	1261542	ENCODER	HEIDENHAIN	ROD 800	1994	\$5,825
N	1261543	ENCODER READOUT	HEIDENHAIN	VRZ460	1994	\$1,758
Y	NONE	ENGRAVING MACHINE	NEWHERM	NONE	N/A	\$369
Y	NONE	EPROM ERASER	SPECTROLINE	PE-140T	N/A	\$50
Y	NONE	EPROM PROGRAMMER/TESTER	MODULAR CIRCUIT TECH	MUP	N/A	\$80
N	848632	EQUIPMENT CABINET	NEFF	500004	1989	\$2,400
Y	NONE	ETHERNET TRANSCEIVER	ETHERNET	LE050A	N/A	\$323
Y	NONE	ETHERNET TRANSCEIVER	ETHERNET	LE050A	N/A	\$323
Y	NONE	ETHERNET TRANSCEIVER	BLACKBOX	LE003A	N/A	\$239
Y	NONE	ETHERNET TRANSCEIVER	ALLIED TELESYN	AT-270	N/A	\$143
Y	NONE	EXHAUSTER	DAYTON	3Z574	N/A	\$421
N	G076061	EXPANDED METER	B & K	5908	1990	\$16,074
Y	NONE	EXTENDER BOARD	DATA CHECK	18002	N/A	\$250
Y	NONE	EXTENDER BOARD	DECOM SYSTEMSINC	012124-C	N/A	\$225
Y	NONE	EXTENDER CARD	UNIVERSAL DYNAMICS	PSP271	N/A	\$1,000
Y	1087340	EXTENDER OPTION HOLDER	HEWLETT-PACKARD	3498A	1991	\$2,508
Y	34936	FAX SERVER	US ROBOTICS	735	1994	\$1,640
Y	NONE	FIBER OPTIC TERMINATOR KIT	NEWPORT CORP	F-TK1	N/A	\$1,224
Y	NONE	FILE SHELF	TABB	NONE	N/A	\$403
Y	NONE	FILM READER	BELL & HOWELL	SR900	N/A	\$183
Y	NONE	FILTER	KROHN HITE	3103	N/A	\$651
Y	NONE	FILTER	HP	5489A	N/A	\$427
Y	NONE	FILTER SET	WHITE INSTRUMENTS	2640	N/A	\$625
N	1261588	FILTER/AMP SYSTEM	PRECISION FILTERS	MF64000M146	1994	\$1,311
N	52622	FILTERS	PRECISION FILTERS	MF32-00-01	1987	\$34,350
N	52620	FILTERS	PRECISION FILTERS	MF32-00-01	1987	\$21,350
Y	NONE	FINGER BRAKE	IRWIN	NONE	N/A	\$268
Y	NONE	FLARING TOOL	IMPERIAL EASTMAN	447F	N/A	\$283
Y	NONE	FLEX GRINDER	L R	1112HP	N/A	\$60

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	FLOOD LIGHT	LITHONIA HI-TEK	TV1000MN5TBHSG	N/A	\$260
Y	NONE	FLOOD LIGHT	LITHONIA HI-TEK	TV1000MN5TBHSG	N/A	\$260
Y	NONE	FLOOD LIGHT	LITHONIA HI-TEK	TV1000MN5TBHSG	N/A	\$260
Y	A006053	FLOW CALIB	BROOKS	1052	NONE	\$150
Y	1259716	FLOW CALIBRATOR	BROOKS	1051A	1974	\$12,432
N	1423566	FLOW CALIBRATOR	EG & G FLOW TECH	FTBP-20-T-1-C	1995	\$55,830
N	1259687	FLOW CONSOLE	WHITELEY	600	1982	\$74,500
N	A029360	FLOWMETER	FLOW TECHNOLOGY	FT-48C1FWRLEG-5	2001	\$2,790
N	A029359	FLOWMETER	FLOW TECHNOLOGY	FT-16C1FWRLEG-5	2001	\$1,730
N	A029358	FLOWMETER	FLOW TECHNOLOGY	FT-08C1FW-LEG-5	2001	\$1,440
Y	1259902	FLUTTER METER	AMPEX	TU-40	1973	\$2,788
Y	A009997	FORCE GAUGE	DILLON	E	1994	\$911
Y	471902	FORK LIFT	CLARK	C500-25	1985	\$8,950
Y	803444	FORMATTER	TEKTRONIX	DF2	1982	\$2,140
Y	NONE	FREEZER	SEARS	198618420	N/A	\$189
N	778632	FREQUENCY COMPARATOR	ARGO SYSTEMS	AS210-02	1986	\$2,640
N	21238	FREQUENCY COMPARATOR	ARGO	AS210-02	1990	\$3,125
N	21420	FREQUENCY CONVERTER	HP	5254A	1984	\$1,550
N	1260014	FREQUENCY CONVERTER	TEKTRONIX	DC505A	1984	\$4,958
Y	NONE	FREQUENCY CONVERTER	HEWLETT-PACKARD	5254C	N/A	\$925
Y	NONE	FREQUENCY CONVERTER	HEWLETT-PACKARD	5254A	N/A	\$925
Y	NONE	FREQUENCY CONVERTER	HP	5253B	N/A	\$502
Y	NONE	FREQUENCY CONVERTER	HP	5253B	N/A	\$400
Y	1259742	FREQUENCY COUNTER	HP	5245L	1975	\$2,698
Y	1259894	FREQUENCY COUNTER	HP	5245L	1976	\$4,208
Y	1259747	FREQUENCY COUNTER	FLUKE	1920A	1978	\$1,446
Y	1259828	FREQUENCY COUNTER	EIP MICROWAVE	578	1983	\$15,375
Y	404642	FREQUENCY COUNTER	HP	5340A	1983	\$12,079
Y	549070	FREQUENCY COUNTER	HP	5334A	1984	\$4,142
Y	143322	FREQUENCY COUNTER	HP	5334A	1987	\$4,569
N	G077496	FREQUENCY COUNTER	HP	5334B	1990	\$2,074
N	G073616	FREQUENCY COUNTER	HEWLETT-PACKARD	5316B	1990	\$1,389
N	1159679	FREQUENCY COUNTER	HEWLETT-PACKARD	5334B	1993	\$3,009
Y	803663	FREQUENCY COUNTER	HP	53131A	1994	\$3,308
N	803678	FREQUENCY COUNTER	HP	53131A	1994	\$5,891
Y	NONE	FREQUENCY COUNTER	HP	5300B	N/A	\$777
Y	NONE	FREQUENCY COUNTER	FLUKE	1952B	N/A	\$769
Y	NONE	FREQUENCY COUNTER	HP	5302A	N/A	\$391
N	55950	FREQUENCY DISTRIBUTION UNIT	RACAL DANA	9478	1988	\$1,872
N	55768	FREQUENCY DISTRIBUTION UNIT	RACAL DANA	9478	1988	\$1,872
N	55756	FREQUENCY DISTRIBUTION UNIT	RACAL DANA	9478	1988	\$1,872
N	55332	FREQUENCY DISTRIBUTION UNIT	RACAL DANA	9478	1988	\$1,872
Y	1259775	FREQUENCY DOUBLER SET	HP	940A	1981	\$1,512
N	778631	FREQUENCY GENERATOR	ARGO SYSTEMS	AS210-03	1986	\$5,295
N	21239	FREQUENCY GENERATOR	ARGO	AS210-03	1990	\$5,845
N	54397	FREQUENCY STANDARD	FTS	4060	1988	\$31,948
N	1259844	FREQUENCY SYNTHESIZER	HP	3325A	1979	\$2,970
Y	57915	FREQUENCY SYNTHESIZER	HP	3325B	1988	\$5,284
Y	55576	FREQUENCY SYNTHESIZER	HP	3325B	1988	\$4,564
N	469402	FREQUENCY SYNTHESIZER	HP	3325A	1979	\$10,000
N	529256	FREQUENCY SYNTHESIZER	HP	3325A	1979	\$6,014
Y	1259730	FUNCTION GENERATOR	HP	203A	1973	\$1,259
Y	1259729	FUNCTION GENERATOR	HP	203A	1973	\$1,259
N	803476	FUNCTION GENERATOR	TEKTRONIX	FG504	1984	\$1,497
Y	20527	FUNCTION GENERATOR	HP	3312A	1989	\$1,620
Y	20526	FUNCTION GENERATOR	HP	3312A	1989	\$1,620
Y	G073706	FUNCTION GENERATOR	HEWLETT-PACKARD	3314A	1990	\$4,915
N	20737	FUNCTION GENERATOR	HEWLETT-PACKARD	8116A	1990	\$4,036
N	1088396	FUNCTION GENERATOR	HP	3325B	1991	\$5,296
Y	21334	FUNCTION GENERATOR	TEKTRONIX	AFG5501	1991	\$4,507
Y	1090512	FUNCTION GENERATOR	STANFORD	DS345/1	1992	\$2,405
N	1159693	FUNCTION GENERATOR	HEWLETT-PACKARD	3325B	1993	\$4,677
Y	NONE	FUNCTION GENERATOR	HP	3310A	N/A	\$728
Y	NONE	FUNCTION GENERATOR	HP	3310A	N/A	\$589
Y	NONE	FUNCTION GENERATOR	EXACT	124	N/A	\$577
Y	NONE	FUNCTION GENERATOR	KROHN HITE	5600	N/A	\$483
Y	NONE	FUNCTION GENERATOR	TEKTRONIX	FG501	N/A	\$388
Y	NONE	FUNCTION GENERATOR	TEKTRONIX	FG503	N/A	\$315
Y	280294	FUNCTION GENERATOR	KROHN HITE	5600	NONE	\$695
N	G079094	FURNACE	ISOTHERMAL	ITL-M-17701	1990	\$17,765
N	1091014	FURNACE	HART SCIENTIFIC	9113	1992	\$4,950
Y	NONE	FUSE SET REPAIR STATION	PACE INC	PPF40	N/A	\$977
Y	A016863	GAGE	CVC	GM-100	1997	\$180
Y	1259853	GAGE BLOCK SET	STARRETT	AG16CLM	1973	\$2,275
Y	NONE	GAGE BLOCKS	STARRETT	HD46A1X	N/A	\$876
Y	NONE	GAGE BLOCKS	DO ALL	G-R	N/A	\$59
Y	1259731	GAGE CONTROL ANALYZER	AERO VAC	202	1973	\$2,000
N	1426054	GASOLINE GENERATOR	HONDA	EX5500	1988	\$2,293
N	55541	GASOLINE GENERATOR	HONDA	EX5500	1988	\$2,293
N	55540	GASOLINE GENERATOR	HONDA	EX5500	1988	\$2,293
N	55539	GASOLINE GENERATOR	HONDA	EX5500	1988	\$2,293

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	219870	GAUGE AIR PISTON	RUSKA	2465	NONE	\$10,050
Y	NONE	GAUGE BLOCK SET	MITUTOYO	BE1-10T-2	N/A	\$245
Y	1259900	GENERATOR	TEKTRONIX	149A	1975	\$3,977
N	1259640	GENERATOR	B & K	1027A	1979	\$7,403
Y	1259947	GENERATOR	ELGENCO INC	610A	1979	\$1,969
Y	1259738	GENERATOR	ADRET	201	1981	\$4,326
Y	A019066	GENERATOR	HONDA	EZ 2500	1997	\$790
Y	NONE	GENERATOR	TEKTRONIX	TG501	N/A	\$963
Y	NONE	GENERATOR	KROHN HITE	5600	N/A	\$704
Y	NONE	GENERATOR	GENRAD	1382	N/A	\$609
Y	549953	GENERATOR BAR	VISUAL INFO	27	NONE	\$850
Y	1085578	GENERATOR PULSE	STANFORD RESEARCH	DG535	1991	\$4,757
Y	1259824	GENERATOR SYNTHESIZER	ADRET	201S-B	1978	\$2,551
Y	529089	GENERATOR TIME CODE	DATUM	9110	1976	\$3,088
N	A019069	GPS ANTENNA	NOVATEL	501	1997	\$595
N	A019071	GPS ANTENNA	NOVATEL	511	1997	\$365
N	A019070	GPS ANTENNA	NOVATEL	511	1997	\$365
N	1741346	GPS RECEIVER	NOVATEL	PROPAK-RT20	1996	\$6,965
N	1741345	GPS RECEIVER	NOVATEL	PROPAK-RT20	1996	\$6,965
Y	NONE	GRANITE SURFACE PLATE	DO ALL	1BX24X4	N/A	\$187
N	1091878	GRAPHICS COMPUTER	TEKTRONIX	XP29	1992	\$5,344
Y	281191	GRAPHICS PLOTTER	HP	7470A	1985	\$1,200
N	220532	GRAPHICS PLOTTER	HP	7550A	1986	\$2,613
N	G078220	GRAPHICS PLOTTER	HP	7440A	1990	\$855
N	1159677	GRAPHICS PLOTTER	HEWLETT-PACKARD	7440A	1993	\$1,046
N	58234	GRAPHICS WORKSTATIONS	SUN MICRO	3/140	1988	\$66,162
Y	NONE	GRINDER-BUFFER	BALDOR	111	N/A	\$58
Y	NONE	HAND PUMP	RUSKA	801-00	N/A	\$705
Y	1259911	HAND SHEARS	DI-ACRO	4	1981	\$1,230
Y	NONE	HAND TRUCK	MG INDUSTRIES	65000-69	N/A	\$140
Y	1259903	HARMONIC ANALYZER	3M COMPANY	6100A	1975	\$3,643
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	HSB552-1	N/A	\$113
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	PLANTRONICS	SUPRA	N/A	\$100
Y	NONE	HEADPHONES	TELEX	CS-75	N/A	\$100
Y	NONE	HEADPHONES	TELEX	CS-75	N/A	\$100
Y	NONE	HEAT GUN	LINGAR	1095	N/A	\$58
Y	NONE	HEATER BASE	DATAMETRICS	525	N/A	\$475
Y	NONE	HEATER BASE	DATAMETRICS	525	N/A	\$475
Y	NONE	HEATER BASE	DATAMETRICS	525	N/A	\$475
Y	C001744	HEATER BASE	DATAMETRICS	525	NONE	\$475
Y	C001742	HEATER BASE	DATAMETRICS	525	NONE	\$475
Y	NONE	HELICOIL SET	HELICOIL	14768	N/A	\$38
Y	NONE	HELICOIL SET	HELICOIL	14702	N/A	\$38
Y	NONE	HELICOIL SET	HELICOIL	45359	N/A	\$31
Y	NONE	HELICOIL SET	HELICOIL	45428	N/A	\$29
Y	NONE	HELICOIL SET	HELICOIL	46756	N/A	\$28
Y	NONE	HELICOIL SET	HELICOIL	11963	N/A	\$27
Y	NONE	HELICOIL SET	HELICOIL	42437	N/A	\$27
Y	NONE	HELICOIL SET	HELICOIL	43236	N/A	\$26
Y	NONE	HELICOIL SET	HELICOIL	43834	N/A	\$25
Y	NONE	HELICOIL SET	HELICOIL	37553	N/A	\$24
Y	NONE	HELICOIL SET	HELICOIL	02-832	N/A	\$24
Y	NONE	HELICOIL SET	HELICOIL	11841	N/A	\$24
Y	1259782	HIGH VOLTAGE AMPLIFIER	HP	746A	1977	\$3,265
Y	NONE	HIGH VOLTAGE PROBE	FLUKE	80K-40	N/A	\$80
Y	M033643	HIGH VOLTAGE PROBE	FLUKE	80K-40	NONE	\$74
Y	NONE	HOSE	HAMPTON RUBBER	2"	N/A	\$185
Y	55220	HUMIDITY GENERATOR	GENERAL EASTERN	DPG-300	1988	\$3,325
N	1083731	HYGROMETER	GENERAL EASTERN	M3	1991	\$5,994
Y	NONE	HYGROTHERMOGRA	WEATHERTRONICS	5021	N/A	\$365
Y	NONE	HYGROTHERMOGRA	WEATHERTRONICS	5021	N/A	\$365
Y	NONE	HYGROTHERMOGRAPH	WEATHERTRONICS	5021	N/A	\$365
Y	NONE	HYGROTHERMOGRAPH	WEATHERTRONICS	5021	N/A	\$365
Y	NONE	HYGROTHERMOGRAPH	WEATHERTRONICS	5021	N/A	\$365
Y	NONE	HYGROTHERMOGRAPH	WEATHERTRONICS	5021	N/A	\$365
Y	1259842	IC TEST FIXTURE	TEKTRONIX	178	1976	\$1,067
Y	NONE	IC TESTER	FLUKE	200	N/A	\$432



## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	1090505	ICE POINT DRYWELL	HART SCIENTIFIC	9101	1992	\$1,495
Y	NONE	ICE POINT REF	KAYE INSTRUMENTS	K140-4	N/A	\$515
Y	NONE	ICE POINT REFERENCE	KAYE INSTRUMENTS	K 140-4	N/A	\$895
Y	NONE	ICE POINT REFERENCE	KAYE INSTRUMENTS	K140-4	N/A	\$594
N	803689	IF SECTION	HP	70902A	1994	\$4,500
N	803690	IF SECTION	HP	70903A	1994	\$4,275
Y	NONE	IF SECTION	HP	8552B	N/A	\$4,325
Y	473637	IF SECTION PLUG IN	HEWLETT-PACKARD	8552B	1978	\$2,970
Y	56908	IFRARED RADIATION SOURCE	MIKRON	M300	1988	\$7,520
Y	NONE	IMPEDANCE BRIDGE	GENRAD	1650A	N/A	\$450
Y	NONE	IN-CIRCUIT TRANSISTOR	SENCORE	TR139B	N/A	\$73
Y	NONE	INDEXER	ULTRADEX AA IND	N/A	N/A	\$2,000
Y	257508	INDICATOR	DRUCK	DPI/40	1986	\$3,470
Y	NONE	INDICATOR	BLAKE MFG CO	CO-AX	N/A	\$160
Y	1259629	INDUCTANCE BRIDGE	GENRAD	1632A	1977	\$1,395
N	848631	INPUT EXPANDER	NEFF	620601	1989	\$26,800
N	G075914	INPUT/OUTPUT CONTROLLER	NEFF	470100	1990	\$5,280
Y	NONE	INSPECTION BLOCK	DOALL	24X24X5	N/A	\$500
Y	NONE	INSTRUMENT CART	TEKTRONIX	K213	N/A	\$675
Y	NONE	INSTRUMENT CART	RAND MATERIALS HANDLING	4WHEEL	N/A	\$345
Y	NONE	INSTRUMENT CART	RAND MATERIALS HANDLING	6WHEEL	N/A	\$215
Y	NONE	INSTRUMENT CART	ROL-AWAY TRUCK MFG	FB2	N/A	\$200
Y	NONE	INSTRUMENT CART	ROL-AWAY TRUCK MFG	FB2	N/A	\$200
Y	NONE	INSTRUMENT CART	ROL-AWAY TRUCK MFG	FB1	N/A	\$200
Y	NONE	INSTRUMENT CART	ROL-AWAY TRUCK MFG	FB1	N/A	\$200
Y	NONE	INSULATION TESTER	WESTON	799	N/A	\$108
Y	1259675	INTERFACE	RUSKA	6005-20	1977	\$3,744
N	1090381	INTERFACE	PSI	8415	1990	\$1,402
Y	20968	INTERFACE	PHILIPS	21	1990	\$690
Y	NONE	INTERFACE	HP	98034B	N/A	\$466
Y	NONE	INTERFACE	HP	5312A	N/A	\$350
Y	NONE	INTERFACE	HP	82169A	N/A	\$265
N	1262559	INTERFACE PANEL	PSI	8400	1994	\$3,430
Y	NONE	INTERFACE TEST SET	NUDATA	921-T2	N/A	\$163
N	1090397	INTERFACE UNIT	MKS	288	1992	\$1,100
Y	1423567	INTERFACE UNIT	EG & G FLOW TECH	FTBP	1995	\$1,500
N	1090396	ION GAUGE CONTROLLER	MKS	290-04	1992	\$1,600
Y	A008818	IRRADIANCE STANDARD	OPTRONIC LABS	OL 100D	1995	\$1,180
Y	A008817	IRRADIANCE STANDARD	OPTRONIC LABS	OL 100D	1995	\$1,180
Y	NONE	JUNCTION BOX	B & K	WB-0981	N/A	\$714
Y	52509	KEYBOARD	FUJITSU	FKB293	1986	\$99
Y	52508	KEYBOARD	FUJITSU	FKB293	1986	\$99
Y	52511	KEYBOARD	FUJITSU	FKB293	1987	\$99
Y	NONE	KEYBOARD	APPLE	M0115	N/A	\$165
Y	NONE	KEYBOARD	KAMONIC	EP3435	N/A	\$100
Y	NONE	KEYBOARD	HI-TEK	RT-101	N/A	\$90
Y	NONE	KEYBOARD	HI-TEK	RT-101	N/A	\$90
Y	NONE	KEYBOARD	HI-TEK	RT-101	N/A	\$90
Y	NONE	KEYBOARD	HI-TEK	RT-101	N/A	\$90
Y	NONE	KEYBOARD	HI-TEC	RT101	N/A	\$85
Y	NONE	KEYBOARD	KEYTRONIC	E03435	N/A	\$85
Y	NONE	KEYBOARD	KEYTRONIC	E03435	N/A	\$85
Y	NONE	KEYBOARD	KEYTRONIC	E03435	N/A	\$85
Y	NONE	KEYBOARD	KEYTRONIC	E03435	N/A	\$85
Y	NONE	KEYBOARD	KEYTRONIC	E03435	N/A	\$85
Y	NONE	KEYBOARD	IBM	1391401	N/A	\$85
Y	NONE	KEYBOARD	APPLE	M3501	N/A	\$76
Y	1160363	LAP TOP COMPUTER	GMR	286	1993	\$2,056
Y	137588	LASER PRINTER	HP	2686A	1986	\$2,676
Y	140364	LASER PRINTER	HP	2686	1987	\$2,765
Y	141137	LASER PRINTER	HP	2686	1987	\$2,676
Y	57751	LASER PRINTER	NEC	LC890	1988	\$3,455
Y	58019	LASER PRINTER	HP	33440	1988	\$1,739
Y	54920	LASER PRINTER	HP	33440A	1988	\$1,671
Y	59301	LASER PRINTER	HP	33440A	1989	\$5,520
Y	G079133	LASER PRINTER	HP	33449	1990	\$1,677
Y	G074420	LASER PRINTER	HP	33449A	1990	\$1,580
Y	G077789	LASER PRINTER	HP	33440A	1990	\$1,545
Y	G074000	LASER PRINTER	HP	33471A	1990	\$1,486
Y	G076075	LASER PRINTER	HP	33440A	1990	\$1,340
Y	G075243	LASER PRINTER	HP	33471A	1990	\$956
Y	1085166	LASER PRINTER	HP	33449A	1991	\$2,406
Y	1085293	LASER PRINTER	HP	33449	1991	\$1,629
Y	1085659	LASER PRINTER	HP	33449	1991	\$1,514
Y	1085223	LASER PRINTER	HP	33449A	1991	\$1,418
Y	1088397	LASER PRINTER	HP	33481A	1991	\$1,026
Y	1092657	LASER PRINTER	APPLE	M6000	1992	\$3,741
Y	1156519	LASER PRINTER	HP	33449A	1992	\$1,409
Y	1090944	LASER PRINTER	HP	33481A	1992	\$1,072
Y	1090943	LASER PRINTER	HP	33481A	1992	\$1,072
Y	1255295	LASER PRINTER	HP	C2001A	1993	\$1,342

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1262730	LASER PRINTER	HP	C2039A (4M)	1994	\$2,253
Y	1260423	LASER PRINTER	HP	C2001A(4M)	1994	\$2,086
Y	1260338	LASER PRINTER	HP	C2001A	1994	\$2,086
Y	1260828	LASER PRINTER	HP	LASER4	1994	\$1,450
Y	1873542	LASER PRINTER	HP	C3980A	1997	\$773
Y	1259905	LATHE	BOLEY	31047	1973	\$1,107
Y	1259917	LATHE	BOLEY	NONE	1975	\$3,000
Y	1259913	LATHE	MONARCH	EE	1976	\$15,140
Y	NONE	LATHE	ROCKWELL	25-709	N/A	\$1,661
Y	NONE	LATHE	UNIMATION	NONE	N/A	\$382
Y	NONE	LC METER	TEKTRONIX	130	N/A	\$225
Y	NONE	LEAD COMPENSATOR	ESI	LC875B	N/A	\$355
Y	M065532	LEAK RATE STANDARD	VEECO INSTRUMENTS	SC-4	NONE	\$745
Y	NONE	LEVEL	GEIER & BLUHM	NONE	N/A	\$79
Y	NONE	LEVEL PRECISION	STARRETT	199	N/A	\$257
N	1259635	LEVEL RECORDER	B & K	2307A	1978	\$6,066
Y	A005377	LIGHT SOURCE	MESON	L92-134	1992	\$350
N	549639	LINE PRINTER	PRINTRONIX	P600	1984	\$7,738
Y	NONE	LIQUID NITROGEN REFRIG	UNION CARBIDE	50LD	N/A	\$606
N	1423101	LIQUID NITROGEN TANK	MVE CRYOGENICS	HL-190	1994	\$9,247
Y	NONE	LOAD BANK	WYLE	NONE	N/A	\$500
Y	NONE	LOAD CAL KIT	BALDWIN LIMA HAMILTON	625	N/A	\$273
Y	NONE	LOADBANK	WESTINGHOUSE	1777564	N/A	\$400
N	803688	LOCAL OSCILLATOR	HP	70900B	1994	\$15,945
Y	803442	LOGIC ANALYZER	TEKTRONIX	7D01	1979	\$4,973
Y	1260034	LOGIC ANALYZER	NICOLET	764	1983	\$18,457
Y	221418	LOGIC ANALYZER	DOLCH INSTRUMENTS	64300	1986	\$14,336
Y	NONE	LOGIC PROBE	HP	NONE	N/A	\$297
N	G073807	LOGIC STATE ANALYZER	HEWLETT-PACKARD	16500A	1990	\$21,181
Y	1259924	LOGIC TESTER	HP	10529A	1982	\$1,220
Y	NONE	LOW FLOW CONS	WYLE	5GPM	N/A	\$500
Y	1259723	LOW FREQUENCY OSCILLATOR	HP	202C	1973	\$1,800
N	220208	MAG TAPE 9 TRACK	CIPHER	M990	1985	\$23,500
Y	141989	MAG TAPE CASSETTE	TECMAR	QT-60E	1987	\$1,240
Y	52867	MAG TAPE CASSETTE	TECMAR	QT-60E	1987	\$1,090
Y	1091454	MAG TAPE CASSETTE	VALITEK	PST160	1992	\$1,885
Y	802808	MAG TAPE CASSETTE	ARCHIVE	4320	1993	\$995
Y	34968	MAG TAPE CASSETTE	AHE	2525	1993	\$525
Y	NONE	MAG TAPE STORAGE RACK	GLOBAL	NONE	N/A	\$790
N	280919	MAINFRAME	ARGO SYSTEMS	AS210-RM	1985	\$13,525
N	1261644	MAINFRAME	HP	70001A	1994	\$8,675
Y	1259715	MANOMETER	DATAMETRICS	1174	1975	\$1,553
Y	1259882	MANOMETER	DATAMETRICS	1174-A5A4A1A1	1975	\$1,477
N	1259676	MANOMETER	RUSKA	6000	1976	\$6,010
N	1259673	MANOMETER	RUSKA	6000	1977	\$9,884
N	1259679	MANOMETER	RUSKA	6000-80	1977	\$8,135
N	1259704	MANOMETER	RUSKA	DDR6000	1979	\$5,073
N	1259703	MANOMETER	RUSKA	6000-80	1979	\$4,483
N	1259705	MANOMETER	RUSKA	6000-15	1983	\$5,500
N	1259677	MANOMETER	RUSKA	6000	1984	\$5,775
N	283112	MANOMETER	RUSKA	6000-30	1986	\$6,385
Y	NONE	MANOMETER	NASA	OIL	N/A	\$800
N	1087499	MANOMETER QUARTZ	RUSKA	6000-150	1991	\$8,445
Y	1259619	MANOMETER SYST	DATAMETRICS	1018B	1975	\$2,185
N	2099324	MASS FLOW ELEMENT	DH INSTRUMENTS	1E5VCR-V-Q	2001	\$6,672
N	2099323	MASS FLOW ELEMENT	DH INSTRUMENTS	1E3VCR-V-Q	2001	\$2,976
N	2099289	MASS FLOW ELEMENT	DH INSTRUMENTS	3E4VCR-V-Q	2001	\$2,269
N	2099320	MASS FLOW ELEMENT	DH INSTRUMENTS	1E2VCR-V-Q	2001	\$2,241
N	2099322	MASS FLOW ELEMENT	DH INSTRUMENTS	5E3VCR-V-Q	2001	\$1,838
N	2099288	MASS FLOW TERMINAL	DH INSTRUMENTS	MOLBOX1A	2001	\$14,300
N	1426098	MASS STORAGE DISK DRIVE	ARTECON	DSU2-301J3-32H	1996	\$14,153
Y	1259719	MEASURING AMPLIFIER	B & K	2607	1975	\$4,347
N	1259626	MEASURING AMPLIFIER	B & K	2607	1976	\$3,629
N	280088	MEASURING AMPLIFIER	B & K	2636	1985	\$11,149
N	1261698	MEASURING RECEIVER	HP	8902A	1994	\$28,524
Y	NONE	MEASURING SYSTEM	HP	5300B	N/A	\$792
Y	NONE	MEDIA SAFE	MEDIA PROTECTION PRODUCTS	1100	N/A	\$598
Y	NONE	MEGOHM STD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHM STD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHM STD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHM STD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$525
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	37542	N/A	\$133
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	37541	N/A	\$133
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$133
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$133
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$133
Y	NONE	MEGOHMETER STANDARD	KEITHLEY	5155	N/A	\$133
Y	1260006	MEGOHMMETER	HP	4329A	1979	\$1,634
Y	803292	MEMORY MODULE	MOTOROLA	MVME28	1994	\$8,000

**Exhibit D**  
**GFE Hardware**

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	803293	MEMORY MODULE	MOTOROLA	MVME28	1994	\$4,000
Y	1428048	MERCURY WORK BENCH	KING NUTRONICS	3642	1997	\$3,396
Y	NONE	MICRO READER	BELL & HOWELL	SR 900	N/A	\$175
Y	NONE	MICROAMMETER	WESTON	622	N/A	\$258
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMANAGER WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
Y	NONE	MICROMETER	BROWN & SHARPE	599	N/A	\$250
Y	NONE	MICROMETER SET 03219 03220 03136 3217 3218	MITUTOYO	0 THRU 6	N/A	\$380
Y	NONE	MICROMETERS	RALMIKES	045-2142	N/A	\$3,095
N	21418	MICROPHONE	B & K	4160	1985	\$1,362
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4134	N/A	\$908
N	NONE	MICROPHONE	B & K	4145	N/A	\$900
N	NONE	MICROPHONE	B & K	4145	N/A	\$900
N	NONE	MICROPHONE	B & K	4145	N/A	\$900
N	NONE	MICROPHONE	B & K	4145	N/A	\$900
N	NONE	MICROPHONE	B & K	4136	N/A	\$900
N	NONE	MICROPHONE	B & K	4136	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4133	N/A	\$900
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4134	N/A	\$746
N	NONE	MICROPHONE	B & K	4136	N/A	\$717
N	NONE	MICROPHONE	B & K	4134	N/A	\$590
N	NONE	MICROPHONE	B & K	4165	N/A	\$554
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447

# Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4133/S	N/A	\$447
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
N	NONE	MICROPHONE	B & K	4134S	N/A	\$300
Y	NONE	MICROPHONE	B & K	4144	N/A	\$250
N	NONE	MICROPHONE	B & K	4134	N/A	\$250
Y	NONE	MICROPHONE	B & K	4132	N/A	\$250
N	NONE	MICROPHONE	B & K	4132	N/A	\$250
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4134	N/A	\$210
N	NONE	MICROPHONE	B & K	4135	N/A	\$200
N	NONE	MICROPHONE	B & K	4133	N/A	\$195
N	NONE	MICROPHONE AMP	B & K	2645S	N/A	\$996
N	NONE	MICROPHONE CAL	PHOTOCON	PC120	N/A	\$235
Y	NONE	MICROPHONE CALIBRATOR	B & K	4230	N/A	\$177
N	NONE	MICROPHONE PREAMP	B & K	2619S	N/A	\$458
Y	NONE	MICROSCOPE	BAUSCH & LOMB	NONE	N/A	\$626
N	NONE	MICROSCOPE	BAUSCH-LOMB	BVD-73	N/A	\$419
Y	473243	MICROWAVE AMP	SINGER	5010-1	1972	\$3,832
Y	1259776	MICROWAVE AMPLIFIER	HP	495A	1981	\$2,917
Y	1428054	MICROWAVE COUNTER	EIP MICROWAVE	578B	1997	\$12,750
Y	NONE	MICROWAVE DETECTOR	HEWLETT-PACKARD	8474C	N/A	\$346
Y	NONE	MICROWAVE DETECTOR	HEWLETT-PACKARD	8474C	N/A	\$346
Y	1259912	MILLING MACHINE	BRIDGEPORT	VBA	1973	\$5,338
Y	NONE	MIXER AUDIO	YAMAHA	KM802	N/A	\$275
N	849612	MOBILE VAN	BARTH INDUSTRIES	1990BARTH28S44	1990	\$99,767
N	849611	MOBILE VAN	BARTH INDUSTRIES	1990BARTH28S44	1990	\$99,767
Y	6074469	MODEM	EVEREX	MD2400	1986	\$198
Y	1261532	MODEM	US ROBOTICS	V32 BIS	1994	\$378
N	NONE	MODEM	EF JOHNSON CO	9600	N/A	\$100
N	NONE	MODEM	EF JOHNSON CO	9600	N/A	\$100
N	NONE	MODEM	EF JOHNSON CO	9600	N/A	\$100
N	NONE	MODEM	EF JOHNSON CO	9600	N/A	\$100
N	NONE	MODEM	EF JOHNSON CO	9600	N/A	\$100
Y	NONE	MODEM	PACKARD BELL	1200	N/A	\$89
N	NONE	MODEM	PACKARD BELL	1200	N/A	\$89
N	533151	MODULE CONTROLLER	ARGO SYSTEMS	AS210-01A	1986	\$5,090
Y	1085803	MODULE SENSOR	HEWLETT-PACKARD	11722A	1991	\$2,130
Y	1259893	MONITOR	TEKTRONIX	1480C	1976	\$2,318
Y	6073500	MONITOR	IBM	8512-001	1990	\$375
Y	NONE	MONITOR	SAMSUNG	SM-12SFA7	N/A	\$95
Y	1085135	MONITOR TESTER	NETWORK TECH	AD16	1991	\$1,249
Y	1090387	MONITOR TESTER	NETWORK TECH	AD-24	1992	\$1,445
Y	1260687	MONITOR TESTER	NETWORK TECH	AD24	1994	\$1,455
Y	NONE	MOTO-TOOL	DREMEL	395	N/A	\$127
N	1259846	MULTIFILTER	GENRAD	1925	1979	\$3,850
N	G079225	MULTIFUNCTION SYNTHESIZER	HEWLETT-PACKARD	8904A	1990	\$2,759
N	G079224	MULTIFUNCTION SYNTHESIZER	HEWLETT-PACKARD	8904A	1990	\$2,759
N	NONE	MULTIFUNCTION SYNTHESIZER	HP	8904A	N/A	\$6,360
Y	1259871	MULTIMETER	KEITHLEY	192	1981	\$1,195
Y	1259955	MULTIMETER	FLUKE	8810A	1982	\$1,238
N	221301	MULTIMETER	HP	3457A	1986	\$2,646
N	G079284	MULTIMETER	HEWLETT-PACKARD	3458A	1990	\$5,687
N	G079283	MULTIMETER	HEWLETT-PACKARD	3458A	1990	\$5,687
N	1085608	MULTIMETER	HEWLETT PACKARD	3458A	1991	\$5,687
N	1085575	MULTIMETER	HEWLETT-PACKARD	3457A	1991	\$2,891
Y	1085070	MULTIMETER	FLUKE	23	1991	\$140

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	21836	MULTIMETER	KEITHLEY	199	1992	\$2,500
Y	21830	MULTIMETER	FLUKE	8840A	1992	\$1,100
N	1160357	MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$975
N	1160356	MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$975
N	1160355	MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$975
N	1160354	MULTIMETER	HEWLETT-PACKARD	34401A	1993	\$975
N	802685	MULTIMETER	FLUKE	79	1994	\$160
Y	NONE	MULTIMETER	FLUKE	853A	N/A	\$432
Y	NONE	MULTIMETER	FLUKE	8020A	N/A	\$182
Y	NONE	MULTIMETER	KEITHLEY	130	N/A	\$105
Y	NONE	MULTIMETER	SIMPSON	260-5M	N/A	\$50
Y	NONE	MULTIMETER	SIMPSON	260-5M	N/A	\$50
Y	NONE	MULTIMETER	SIMPSON	260	N/A	\$50
Y	398520	MULTIMETER	HP	3478A	NONE	\$940
Y	1085074	MULTIMETER	FLUKE	77	NONE	\$140
Y	1085072	MULTIMETER	FLUKE	23	NONE	\$140
N	1085071	MULTIMETER	FLUKE	23	NONE	\$140
N	142063	MULTIMETER	FLUKE	77	NONE	\$135
N	142062	MULTIMETER	FLUKE	77	NONE	\$135
N	142061	MULTIMETER	FLUKE	77	NONE	\$135
N	142060	MULTIMETER	FLUKE	77	NONE	\$135
Y	55045	MULTIMETER	FLUKE	77	NONE	\$130
Y	55040	MULTIMETER	FLUKE	77	NONE	\$130
Y	55039	MULTIMETER	FLUKE	77	NONE	\$130
Y	220892	MULTIMETER	FLUKE	77	NONE	\$116
N	1160444	MULTIMETER DIGITAL	HEWLETT-PACKARD	3458A	1993	\$7,279
Y	NONE	MULTIPLER	HP	4491A	N/A	\$425
N	1090444	MULTIPOINT REPEATER	RACAL INTERLAN	MPR110V	1992	\$1,798
Y	1261636	MULTIPOINT REPEATER	BLACK BOX	LE1090A-AUI	1994	\$2,045
N	1087107	MULTIPOINT REPEATER	INTERLAN	MPR110V	NONE	\$1,798
Y	NONE	NANOVOLT STANDARD	KEITHLEY	260	N/A	\$499
N	NONE	NETWORK HUB	FARALLON	PN520/16	N/A	\$105
Y	1260331	NETWORK INTERFACE	BLACK BOX	IC026A	1994	\$605
N	NONE	NETWORK INTERFACE	BLACK BOX	LE679A-R2	N/A	\$179
Y	1742976	NETWORK SERVER	DELL	SMS	1997	\$5,399
Y	280235	NITROGEN CONT	UNION CARBIDE	PGS-45	1985	\$1,785
Y	1263561	NITROGEN DEWAR	TAYLOR-WHARTON	XL-45	1994	\$1,539
Y	1743202	NITROGEN DEWAR	UNION CARBIDE	LS-160	1996	\$1,500
N	1259632	NITROGEN TANK	UNION CARBIDE	891-KZ	1977	\$1,045
Y	NONE	NOBATRON	SORENSEN	610B	N/A	\$825
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
N	NONE	NOISE GENERATOR	CEL INSTRUMENTS	213	N/A	\$611
Y	NONE	NULL METER	RUSKA	2416	N/A	\$2,000
Y	NONE	OHMMETER	HP	4329A	N/A	\$753
Y	NONE	OMNI-VISE	DO ALL	779	N/A	\$449
N	803310	OPTICAL THEODOLITE	TOPCON	ITS1	1994	\$10,500
N	1259946	OSCILLATOR	SPECTRAL DYNAMICS	SD104	1977	\$2,989
Y	1259829	OSCILLATOR	WEINSCHEL	430A	1981	\$2,200
N	NONE	OSCILLATOR	HP	651B	N/A	\$654
Y	NONE	OSCILLATOR	KROHN-HITE	4200	N/A	\$600
Y	NONE	OSCILLATOR	TEKTRONIX	SG502	N/A	\$364
Y	NONE	OSCILLATOR	HP	200CDR	N/A	\$225
Y	1259896	OSCILLOGRAPH	HONEYWELL	906	1975	\$2,942
Y	143637	OSCILLOSCOPE	IWATSU	SS-5711D	1987	\$1,750
Y	1259613	OSCILLOSCOPE	TEKTRONIX	535A	1973	\$1,372
Y	1259862	OSCILLOSCOPE	TEKTRONIX	454A	1974	\$3,104
Y	529908	OSCILLOSCOPE	TEKTRONIX	7603	1974	\$1,722
Y	1259825	OSCILLOSCOPE	TEKTRONIX	324	1974	\$1,285
Y	422611	OSCILLOSCOPE	TEKTRONIX	7844	1975	\$5,723
Y	1259732	OSCILLOSCOPE	TEKTRONIX	5403	1975	\$1,213
Y	1259867	OSCILLOSCOPE	TEKTRONIX	7904	1976	\$3,977
Y	1259811	OSCILLOSCOPE	TEKTRONIX	475	1976	\$2,823
Y	1259985	OSCILLOSCOPE	TEKTRONIX	465DM43	1976	\$2,663
Y	469707	OSCILLOSCOPE	TEKTRONIX	7704A	1977	\$2,806
Y	1260035	OSCILLOSCOPE	TEKTRONIX	475	1979	\$2,903
Y	1259925	OSCILLOSCOPE	TEKTRONIX	455	1979	\$1,688
Y	1260036	OSCILLOSCOPE	TEKTRONIX	323	1979	\$1,355
Y	1259895	OSCILLOSCOPE	TEKTRONIX	323	1979	\$1,355
Y	419536	OSCILLOSCOPE	TEKTRONIX	323	1979	\$1,355
Y	529403	OSCILLOSCOPE	TEKTRONIX	7904	1980	\$5,510
Y	1259819	OSCILLOSCOPE	TEKTRONIX	335	1980	\$2,104
Y	1259815	OSCILLOSCOPE	TEKTRONIX	335	1980	\$2,104
Y	420459	OSCILLOSCOPE	TEKTRONIX	7844	1981	\$10,709
Y	1259864	OSCILLOSCOPE	TEKTRONIX	475	1981	\$3,128
Y	417780	OSCILLOSCOPE	TEKTRONIX	475A	1982	\$3,525
Y	1260033	OSCILLOSCOPE	TEKTRONIX	335	1983	\$2,755
Y	1259814	OSCILLOSCOPE	TEKTRONIX	335	1983	\$2,462

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	1259953	OSCILLOSCOPE	TEKTRONIX	2215	1983	\$1,344
Y	1259951	OSCILLOSCOPE	TEKTRONIX	2215	1983	\$1,344
Y	1260005	OSCILLOSCOPE	NICOLET	3091	1984	\$5,184
Y	404054	OSCILLOSCOPE	TEKTRONIX	2465	1984	\$4,750
N	803477	OSCILLOSCOPE	TEKTRONIX	SC504	1984	\$1,838
Y	143641	OSCILLOSCOPE	IWATSU	SS-5711D	1987	\$1,750
Y	143639	OSCILLOSCOPE	IWATSU	SS-5711D	1987	\$1,750
Y	143636	OSCILLOSCOPE	IWATSU	SS-5711D	1987	\$1,750
Y	143635	OSCILLOSCOPE	IWATSU	SS-5711D	1987	\$1,750
Y	143632	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	143631	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	143630	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	143629	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	143628	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	143627	OSCILLOSCOPE	IWATSU	SS-5710D	1987	\$1,399
Y	58048	OSCILLOSCOPE	TEKTRONIX	7904A	1988	\$10,431
Y	55004	OSCILLOSCOPE	IWATSU	SS-6122	1988	\$1,721
Y	55005	OSCILLOSCOPE	IWATSU	SS6122	1988	\$1,721
Y	20646	OSCILLOSCOPE	TEKTRONIX	2430A	1989	\$7,473
Y	G077578	OSCILLOSCOPE	FLUKE	PM3065	1990	\$1,745
N	21912	OSCILLOSCOPE	TEKTRONIX	SC504	1991	\$5,052
Y	1090445	OSCILLOSCOPE	HITACHI	V-1150	1992	\$2,141
Y	1090446	OSCILLOSCOPE	HITACHI	VC6025	1992	\$1,976
N	1159721	OSCILLOSCOPE	HEWLETT-PACKARD	54600A	1993	\$2,643
N	1159720	OSCILLOSCOPE	HEWLETT-PACKARD	54600A	1993	\$2,643
Y	1158063	OSCILLOSCOPE	HITACHI	V1085	1993	\$1,646
N	1158084	OSCILLOSCOPE	TEKTRONIX	2205	1993	\$625
N	282331	OSCILLOSCOPE	TEKTRONIX	2465	1985	\$11,220
N	1255135	OSCILLOSCOPE	TEKTRONIX	R7844	1993	\$5,142
Y	NONE	OSCILLOSCOPE	TEKTRONIX	323	N/A	\$965
N	474014	OSCILLOSCOPE	PACIFIC MEASUREMENTS	1038	NONE	\$6,242
Y	803533	OSCILLOSCOPE AMPLIFIER	TEKTRONIX	7A24	1980	\$1,509
Y	143633	OSCILLOSCOPE DIGITAL	IWATSU	DS-6121A	1987	\$4,479
Y	1259888	OVEN	ODELL	44	1973	\$1,666
Y	21643	PAGER	MOTOROLA	A03CJC2468AA	1991	\$295
Y	21641	PAGER	MOTOROLA	A03CJ2468AA	1991	\$295
Y	21640	PAGER	MOTOROLA	A03CJ2468AA	1991	\$295
Y	21639	PAGER	MOTOROLA	A03CJ2468AA	1991	\$295
Y	802635	PAGER	MOTOROLA	A03CJC2468AA	1993	\$228
Y	802633	PAGER	MOTOROLA	A03CJC2468AA	1993	\$228
Y	38694	PAGER	MOTOROLA	A03CJC2468AA	1993	\$228
Y	37744	PAGER	MOTOROLA	A03CJC2468AA	1993	\$228
Y	35532	PAGER	MOTOROLA	A03CJC2468AA	1995	\$228
Y	35530	PAGER	MOTOROLA	A03CJC2468AA	1995	\$228
Y	NONE	PAGER	MOTOROLA	A03FNC2468A	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03FNC2468A	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03DNC2	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03DNC2	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03DNC2	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03DNC2	N/A	\$300
Y	NONE	PAGER	MOTOROLA	A03DNC2	N/A	\$300
Y	61004	PCB REPAIR STATION	PACE INC	PRC351	1989	\$3,154
Y	G074020	PCB REPAIR STATION	PACE INC	CRAFT 25	1990	\$9,945
Y	411073	PCM SIMULATOR	MONITOR SYSTEM	820	1984	\$7,785
Y	411132	PCM TEST SET	METRAPLEX	376-01	1982	\$3,036
Y	NONE	PCU EXTENDER	PSI	8481-01	N/A	\$980
N	NONE	PCU EXTENDER	PSI	8481-01	N/A	\$980
Y	NONE	PEDAL GRINDER	ROCKWELL	NONE	N/A	\$224
Y	60703	PERSONAL COMPUTER	COMPADD	286	1989	\$1,668
Y	849563	PERSONAL COMPUTER	CTX	286	1990	\$2,000
Y	NONE	PHASE COMPENSATOR	ESI	874	N/A	\$402
N	527847	PHASE METER	KROHN HITE	6400	1985	\$1,403
Y	1259622	PHASEMETER	KROHN HITE	6500	1976	\$2,000
Y	1259949	PHASEMETER	KROHN HITE	6500	1976	\$1,935
Y	57317	PHOTOMETER	EG&G	550-1	1988	\$2,908
Y	134920	PICOAMPERE SOURCE	KEITHLEY INSTRUMENTS	261	UNKNOWN	\$499
N	1259709	PISTON ASSY	RUSKA	S100714	1982	\$4,100
N	1092237	PISTON PHONE	B & K	4228	1992	\$2,046
N	1092236	PISTON PHONE	B & K	4228	1992	\$2,046
N	1092235	PISTON PHONE	B & K	4228	1992	\$2,046
N	1092234	PISTON PHONE	B & K	4228	1992	\$2,046
N	1092233	PISTON PHONE	B & K	4228	1992	\$2,046
N	1092232	PISTON PHONE	B & K	4228	1992	\$2,046
N	NONE	PISTON PHONE	B & K	4220	N/A	\$250
N	54847	PISTONPHONE	B & K	4220	1988	\$1,029
N	NONE	PISTONPHONE	B & K	4220	N/A	\$850
Y	A017358	PLATINUM RTD	ROSEMOUNT AEROSPACE	162D	1998	\$2,925
Y	280239	PLOTTER	HP	7470A	1985	\$799
Y	57242	PLOTTER	HP	7550A	1988	\$2,613
N	1090485	PLOTTER	CAL	1025	1992	\$5,673

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	847096	PLOTTER GRAPHICS	HOUSTON	DMP-61	1989	\$3,264
Y	803423	PLUG IN	TEKTRONIX	7A26	1984	\$1,388
Y	803479	PLUG IN	TEKTRONIX	7B53A	1984	\$1,171
Y	20085	PLUG IN	TEKTRONIX	7A19	1988	\$2,860
Y	20107	PLUG IN	TEKTRONIX	7A22	1988	\$1,762
Y	NONE	PLUG IN	TEKTRONIX	067-0521-00	N/A	\$325
Y	420463	PLUG-IN	TEKTRONIX	7B85	1981	\$1,378
Y	420462	PLUG-IN	TEKTRONIX	7B80	1981	\$1,151
Y	C003475	PLUG-IN	TEKTRONIX	7A16A	NONE	\$1,200
Y	57351	PLUG-IN AMPLIFIER	TEKTRONIX	7A16A	1988	\$1,335
N	1261650	PLUG-IN AMPLIFIER	HP	54721A	1994	\$3,888
Y	NONE	PLUG-IN AMPLIFIER	TEKTRONIX	7A26	N/A	\$1,050
Y	NONE	PLUG-IN AMPLIFIER	TEKTRONIX	D	N/A	\$172
Y	NONE	PLUG-IN COUNTER	HP	5302A	N/A	\$272
Y	NONE	PLUG-IN DUAL TIME BASE	TEKTRONIX	7B53A	N/A	\$850
Y	NONE	PLUG-IN DUAL TRACE	TEKTRONIX	1A1	N/A	\$650
Y	21844	PLUG-IN EXTENDER	TEKTRONIX	067-0589-00	1992	\$1,810
Y	NONE	PLUG-IN EXTENDER	TEKTRONIX	067-0616-00	N/A	\$695
Y	NONE	PLUG-IN EXTENDER	TEKTRONIX	067-0616-00	N/A	\$695
Y	NONE	PLUG-IN UNIT	TEKTRONIX	L	N/A	\$212
Y	NONE	PLUG-IN UNIT	TEKTRONIX	D	N/A	\$172
Y	NONE	PLUG-IN UNIT	TEKTRONIX	K	N/A	\$135
Y	NONE	PLUTO ALPHA SD	EBERLINE	S94-1	N/A	\$300
Y	281416	PM LIGHT CHOPPER	LASER PRECISION	CTX-530	NONE	\$700
Y	NONE	PM PROBE	LASER PRECISION	RKP360	N/A	\$700
Y	1159676	PORT ELEVATOR LIFT	MACHINE TOOL	50	1993	\$1,445
Y	NONE	PORTABLE ALPHA COUNTER	EBERLINE	PAC-1SA	N/A	\$654
N	G079470	PORTABLE DUAL CHANNEL	ONO SOKKI	CF360	1990	\$16,055
N	G079469	PORTABLE DUAL CHANNEL	ONO SOKKI	CF360	1990	\$16,055
N	1085418	POSITION-CONTROLLER	AEROTECH	U11R-2-A	1991	\$3,095
Y	1260010	POWER AMPLIFIER	FLUKE	5205A	1976	\$3,390
Y	1260000	POWER AMPLIFIER	ACOUSTIC POWER SYSTEMS	114	1982	\$1,175
Y	281935	POWER AMPLIFIER	FLUKE	5205A	1985	\$7,882
N	221858	POWER AMPLIFIER	FLUKE	5205A	1986	\$8,413
N	280740	POWER AMPLIFIER	UNHOLTZ DICKIE	TA100A	1987	\$7,235
Y	60761	POWER AMPLIFIER	FLUKE	5215A	1989	\$2,100
Y	NONE	POWER AMPLIFIER	HP	467A	N/A	\$248
Y	281415	POWER METER	LASER PRECISION	RL3610	1985	\$1,000
Y	61831	POWER METER	HP	415E	1989	\$2,166
Y	A005376	POWER METER	MESON	L92-133	1992	\$375
Y	NONE	POWER METER	HP	432A	N/A	\$495
Y	NONE	POWER METER	HP	431B	N/A	\$450
Y	NONE	POWER METER CALIBRATOR	HP	8402A	N/A	\$475
Y	60669	POWER METER LASER	COHERENT	203	1989	\$1,950
N	21236	POWER MODULE	ARGO	AS210-RM	1990	\$14,295
N	21254	POWER MODULE	TEKTRONIX	TM5006A	1990	\$1,267
Y	1085344	POWER MODULE	TEKTRONIX	TM5006A	1991	\$1,164
Y	NONE	POWER MODULE	TEKTRONIX	TM503	N/A	\$500
N	NONE	POWER MODULE	TEKTRONIX	TM506	N/A	\$440
Y	NONE	POWER MODULE	TEKTRONIX	TM504	N/A	\$315
Y	NONE	POWER MODULE	TEKTRONIX	TM503	N/A	\$250
Y	NONE	POWER MODULE	TEKTRONIX	TM503	N/A	\$250
Y	NONE	POWER MODULE	TEKTRONIX	TM503	N/A	\$218
Y	NONE	POWER MODULE	TEKTRONIX	TM504	N/A	\$184
Y	NONE	POWER MODULE	TEKTRONIX	TM504	N/A	\$180
Y	NONE	POWER MODULE	TEK	TM503	N/A	\$150
Y	NONE	POWER MODULE	TEKTRONIX	TM-501	N/A	\$125
N	NONE	POWER PACKAGE	ATHENA	91Z-126	N/A	\$235
N	NONE	POWER RACK	NEFF	NONE	N/A	\$271
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240-C	N/A	\$350
N	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240C	N/A	\$350
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240C	N/A	\$115
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240-C	N/A	\$99
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240C	N/A	\$99
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240-C	N/A	\$72
Y	NONE	POWER RESISTOR DECADE BOX	CLAROSTAT	240	N/A	\$70
Y	801573	POWER SENSOR	HEWLETT-PACKARD	8481D	1993	\$1,029
Y	A017300	POWER SENSOR	HP	8481D	1997	\$950
Y	NONE	POWER SENSOR	HP	8485A	N/A	\$851
Y	778861	POWER SENSOR	HP	8481H	NONE	\$729
Y	1259612	POWER SUPPLY	HP	6450A	1973	\$1,610
Y	1259621	POWER SUPPLY	FLUKE	332D	1974	\$2,935
N	1259856	POWER SUPPLY	INLAND	1500CP	1975	\$7,000
Y	1259615	POWER SUPPLY	FLUKE	332D	1975	\$2,935
N	1260004	POWER SUPPLY	BEHLMAN	3-10A	1976	\$1,690
Y	1259850	POWER SUPPLY	GENERAL RESISTANCE	DAS86	1978	\$1,443
Y	1259744	POWER SUPPLY	GENERAL RESISTANCE	DAS66AX	1978	\$1,294
N	1259633	POWER SUPPLY	HP	6002A	1978	\$1,139
Y	1259648	POWER SUPPLY	HP	6459A	1981	\$2,619
Y	1259647	POWER SUPPLY	HP	6459A	1981	\$2,619
Y	1259958	POWER SUPPLY	ELECTRO INTERNATIONAL	PLT1/PP	1981	\$2,030

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	1260031	POWER SUPPLY	HP	6114A	1982	\$1,152
N	1259641	POWER SUPPLY	B & K	SQ630	1982	\$1,003
Y	1259665	POWER SUPPLY	FLUKE	332D	1983	\$6,389
N	1260011	POWER SUPPLY	TEKTRONIX	TM5006	1985	\$1,090
Y	258103	POWER SUPPLY	PACE	PRC-151	1986	\$1,250
N	55682	POWER SUPPLY	BLACK & WEBSTER	P10-10-2	1988	\$1,485
Y	60680	POWER SUPPLY	KEPCO	ATE15-15M	1989	\$1,550
Y	60683	POWER SUPPLY	KEPCO	ATE36-8M	1989	\$1,549
Y	60682	POWER SUPPLY	KEPCO	ATE36-8M	1989	\$1,549
Y	846843	POWER SUPPLY	DATAMETRICS	699	1989	\$1,100
N	G078950	POWER SUPPLY	DATAMETRICS	700	1990	\$2,220
N	G073805	POWER SUPPLY	BEST POWER	MD1KVA	1990	\$1,487
N	G073804	POWER SUPPLY	BEST POWER	MD1KVA	1990	\$1,487
N	1085395	POWER SUPPLY	HP	6205C	1991	\$1,360
N	1083733	POWER SUPPLY	GENERAL EASTERN	1311XR	1991	\$1,034
Y	1090885	POWER SUPPLY	DATA CHECK	1218	1992	\$2,050
N	1090394	POWER SUPPLY	MKS	PDR-C-1C	1992	\$1,625
N	1090393	POWER SUPPLY	MKS	PDR-C-2C	1992	\$1,280
N	1256770	POWER SUPPLY	A G DAVIS	HPRC-2000	1993	\$2,500
Y	1159704	POWER SUPPLY	MKS	247C	1993	\$1,436
Y	1426599	POWER SUPPLY	OPTRONIC LABS	83A	1995	\$3,990
Y	1428050	POWER SUPPLY	HP	6259B	1997	\$1,100
Y	1428049	POWER SUPPLY	HP	6259B	1997	\$1,100
Y	A017294	POWER SUPPLY	HP	6274B	1997	\$950
Y	NONE	POWER SUPPLY	FLUKE	408A	N/A	\$2,500
Y	NONE	POWER SUPPLY	PSI	8490	N/A	\$1,900
N	NONE	POWER SUPPLY	B & K	2807	N/A	\$1,328
Y	NONE	POWER SUPPLY	FLUKE	408A	N/A	\$990
Y	NONE	POWER SUPPLY	HP	6237B	N/A	\$930
Y	NONE	POWER SUPPLY	ORTEC	402D	N/A	\$900
Y	NONE	POWER SUPPLY	NJE	CR60-18D1481	N/A	\$800
N	NONE	POWER SUPPLY	B & K	2804	N/A	\$734
Y	NONE	POWER SUPPLY	HP	6237B	N/A	\$715
Y	NONE	POWER SUPPLY	HP	6255A	N/A	\$650
Y	NONE	POWER SUPPLY	HP	6255A	N/A	\$642
Y	NONE	POWER SUPPLY	DATAMETRICS	700	N/A	\$605
Y	NONE	POWER SUPPLY	KEPCO	KM251	N/A	\$604
Y	NONE	POWER SUPPLY	TRYGON	HR405B	N/A	\$573
Y	NONE	POWER SUPPLY	DATAMETRICS	699	N/A	\$570
Y	NONE	POWER SUPPLY	DATAMETRICS	700	N/A	\$550
Y	NONE	POWER SUPPLY	HP	59501A	N/A	\$545
Y	NONE	POWER SUPPLY	HP	6236B	N/A	\$528
Y	NONE	POWER SUPPLY	HP	6205B	N/A	\$515
Y	NONE	POWER SUPPLY	HP	6205B	N/A	\$515
Y	NONE	POWER SUPPLY	SORENSEN	QB28-8	N/A	\$492
Y	NONE	POWER SUPPLY	UNHOLTZ DICKIE	608PS-1	N/A	\$425
Y	NONE	POWER SUPPLY	POWER DESIGN	2005	N/A	\$379
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$368
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$362
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$362
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$362
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$362
Y	NONE	POWER SUPPLY	FLUKE	407D	N/A	\$360
Y	NONE	POWER SUPPLY	TRYGON	HR36-5	N/A	\$353
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$351
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$351
Y	NONE	POWER SUPPLY	POWER MATE	BPA-20E	N/A	\$339
Y	NONE	POWER SUPPLY	SOLA	28510	N/A	\$330
Y	NONE	POWER SUPPLY	SOLA	28510	N/A	\$330
Y	NONE	POWER SUPPLY	TRYGON	HR40750	N/A	\$329
N	NONE	POWER SUPPLY	B & K	2801	N/A	\$322
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$312
Y	NONE	POWER SUPPLY	HP	6102A	N/A	\$312
Y	NONE	POWER SUPPLY	PCB PIEZOTRONICS	484B	N/A	\$295
Y	NONE	POWER SUPPLY	ENDEVCO	2623	N/A	\$255
Y	NONE	POWER SUPPLY	KEPCO	JQE 55-2M	N/A	\$250
Y	NONE	POWER SUPPLY	TRYGON	HR20-5	N/A	\$250
Y	NONE	POWER SUPPLY	HP	723A	N/A	\$236
Y	NONE	POWER SUPPLY	HP	723A	N/A	\$233
N	NONE	POWER SUPPLY	AMERICAN POWER CONVERSION	BP420C	N/A	\$224
Y	NONE	POWER SUPPLY	INMAC	B203-1	N/A	\$200
Y	NONE	POWER SUPPLY	OPAD	KM87	N/A	\$185
Y	NONE	POWER SUPPLY	LAMBDA	LH124FM	N/A	\$180
Y	NONE	POWER SUPPLY	LAMBDA	LH124FM	N/A	\$179
Y	NONE	POWER SUPPLY	LAMBDA	LH124FM	N/A	\$179
Y	NONE	POWER SUPPLY	LAMBDA	LH124FM	N/A	\$179
Y	NONE	POWER SUPPLY	TRYGON	HR40500	N/A	\$153
Y	NONE	POWER SUPPLY	HP	721A	N/A	\$150
Y	NONE	POWER SUPPLY	HP	721A	N/A	\$148
Y	NONE	POWER SUPPLY	HP	721A	N/A	\$147
Y	NONE	POWER SUPPLY	HP	721A	N/A	\$147





## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$442
N	NONE	PREAMPLIFIER	B & K	2619/S	N/A	\$250
N	NONE	PREAMPLIFIER	B & K	2619/S	N/A	\$250
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$250
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$250
N	NONE	PREAMPLIFIER	B & K	2619	N/A	\$250
N	M097521	PREAMPLIFIER	B & K	2639	NONE	\$593
Y	NONE	PREC RES DEC	SHALLCROSS	6860	N/A	\$135
N	NONE	PRECISION DECADE RESISTOR	SHALLCROSS	6860	N/A	\$135
N	G075687	PRECISION DIVIDING HEAD	YOKOGAWA	SD1050A-1	1990	\$3,665
N	803687	PRECISION FREQUENCY REFERENCE	HP	70310A	1994	\$4,725
Y	418994	PRECISION LEVEL	RANK TAYLOR	112/753	1975	\$1,946
Y	NONE	PRECISION LEVEL	STARRETT	199	N/A	\$95
Y	1259714	PRES INDICATOR	RUSKA	2416704	1973	\$2,285
Y	1259691	PRES INDICATOR	RUSKA	2416704	1973	\$1,465
Y	1259690	PRES INDICATOR	RUSKA	24165	1973	\$1,155
Y	1259977	PRES MEA SYST	RUSKA	2416	1976	\$2,505
Y	1259831	PRESELECTOR	HP	8445A	NONE	\$528
Y	NONE	PRESS CONSOLE	NASA	FR24A	N/A	\$573
N	1259698	PRESS GAUGE	RUSKA	6000	1981	\$3,905
Y	1259969	PRESS SYS	DATAMETRICS	1174	1976	\$1,553
Y	NONE	PRESSINDICATO	DRESSER	710A	N/A	\$1,260
Y	1259692	PRESSMEAS SYS	PAROSCIENTIFIC	600	1979	\$1,848
Y	NONE	PRESSURE BELLOWS	VOLUMETRICS	V-1R	N/A	\$535
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	NONE	PRESSURE BLANKING UNIT	PSI	8482	N/A	\$220
N	1088355	PRESSURE CALIBRATOR	PSI	8432-300	1991	\$5,142
N	1090960	PRESSURE CALIBRATOR	PSI	8432-30	1992	\$5,656
Y	1160441	PRESSURE CALIBRATOR	DRUCK	DPI605	1993	\$5,950
N	G076354	PRESSURE CALIBRATOR	PSI	8432PCU-30	1990	\$1,270
N	G078451	PRESSURE CALIBRATOR	PSI	8433PCU-5D	1990	\$1,180
Y	NONE	PRESSURE CALIBRATOR	PHOTOCOM	PC125	N/A	\$975
Y	NONE	PRESSURE CELL	RUSKA	2417706	N/A	\$7,200
Y	NONE	PRESSURE CELL	RUSKA	2413-705-0	N/A	\$3,900
Y	NONE	PRESSURE CELL	RUSKA	24135	N/A	\$300
Y	NONE	PRESSURE CHAMBER	VARIAN	NONE	N/A	\$500
Y	427860	PRESSURE COMPUTER	PAROSCIENTIFIC	600B	1980	\$3,903
N	1090395	PRESSURE CONTROLLER	MKS	244C	1992	\$1,145
N	1259674	PRESSURE GAGE	RUSKA	6000801	1981	\$10,715
Y	848430	PRESSURE GAGE	RUSKA	6211-806-721	1989	\$3,500
Y	NONE	PRESSURE GAGE	WALLACE & TIERNAN	FA160	N/A	\$234
N	846109	PRESSURE GENERATOR	DH INSTRUMENTS	PG-102	1989	\$3,365
Y	1259881	PRESSURE INDICATOR	MENSOR	11600	1979	\$2,114
Y	1259880	PRESSURE INDICATOR	MENSOR	11900	1982	\$2,489
Y	1259879	PRESSURE INDICATOR	MENSOR	11900	1982	\$2,489
Y	1259683	PRESSURE INDICATOR	MENSOR	11900	1982	\$2,157
Y	143243	PRESSURE INDICATOR	MENSOR	11900-402F	1987	\$3,200
Y	G075304	PRESSURE INDICATOR	MENSOR	14000B	1990	\$3,555
Y	1087965	PRESSURE INDICATOR	MENSOR	14000	1991	\$3,005
Y	1087964	PRESSURE INDICATOR	MENSOR	14000	1991	\$3,005
Y	1159747	PRESSURE INDICATOR	RUSKA	2416-711	1993	\$1,560
N	1261940	PRESSURE INDICATOR	MENSOR	15000	1994	\$2,825
Y	NONE	PRESSURE INDICATOR	EDWARDS	1570	N/A	\$605
N	G075727	PRESSURE INDICATOR DIGITAL	MENSOR	14000B	1990	\$3,260
N	1259684	PRESSURE MEASURE SYSTEM	RUSKA	600-801	1975	\$4,028
Y	1259876	PRESSURE MEASURE SYSTEM	PAROSCIENTIFIC	600	1979	\$1,848

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	527449	PRESSURE MEASURE SYSTEM	PSI	780B/T-02	1985	\$6,768
N	G079111	PRESSURE MEASURING SYSTEM	PSI	8400-SP	1990	\$11,220
N	G076352	PRESSURE MEASURING SYSTEM	PSI	8400 SP	1990	\$1,279
Y	NONE	PRESSURE REGULATOR	CEC	360313-0100	N/A	\$535
Y	NONE	PRESSURE REGULATOR	M G INDUSTRIES	65000049-580	N/A	\$225
Y	NONE	PRESSURE REGULATOR	MG INDUSTRIES	1678	N/A	\$199
Y	NONE	PRESSURE REGULATOR	MG INDUSTRIES	1678	N/A	\$150
N	A006286	PRESSURE SCANNER	PSI	32RG	1993	\$4,273
N	NONE	PRESSURE SCANNER	PSI	ESP-16	N/A	\$2,350
Y	1259877	PRESSURE SENSOR	DATAMETRICS	571D-10	1975	\$1,373
Y	1259970	PRESSURE SENSOR	DATAMETRICS	571D-10T-1D4-V1X	1976	\$1,254
Y	1259968	PRESSURE SENSOR	DATAMETRICS	571D-100T-1D4-V1	1976	\$1,254
Y	NONE	PRESSURE SENSOR	MKS	390HA	N/A	\$9,280
Y	NONE	PRESSURE SENSOR	MKS	390HA	N/A	\$9,280
Y	A006204	PRESSURE TRANSDUCER	DRUCK	PDCR910	1993	\$540
Y	A008247	PRESSURE TRANSDUCER	DRUCK	PDCR 910-1422	1994	\$550
Y	A011894	PRINT SERVER	HP	J2591A	1997	\$290
Y	470826	PRINTER	EPSON	MX80	1982	\$559
Y	548812	PRINTER	HP	82906	1984	\$715
Y	281190	PRINTER	HP	82906	1985	\$1,200
Y	281562	PRINTER	NEC	P2	1985	\$685
Y	282293	PRINTER	STAR MICRONICS	SR10	1985	\$549
Y	283620	PRINTER	EPSON	FX85	1985	\$400
Y	220264	PRINTER	EPSON	FX85	1985	\$389
Y	258613	PRINTER	STAR MICRONICS	SR-15	1986	\$674
Y	532252	PRINTER	NEC	P6	1986	\$577
Y	221908	PRINTER	EPSON	FX85	1986	\$395
Y	140252	PRINTER	NEC	P6	1987	\$568
Y	138917	PRINTER	NEC	P6	1987	\$512
Y	142446	PRINTER	NEC	P6	1987	\$503
Y	141811	PRINTER	NEC	P6	1987	\$474
Y	140346	PRINTER	NEC	P6	1987	\$474
Y	52552	PRINTER	NEC	P6	1987	\$474
Y	142682	PRINTER	NEC	P6	1987	\$450
Y	140398	PRINTER	EPSON	FX86E	1987	\$386
Y	55509	PRINTER	EPSON	FX86E	1987	\$369
Y	143370	PRINTER	EPSON	FX86E	1987	\$346
Y	53448	PRINTER	EPSON	P88MA	1988	\$628
Y	54770	PRINTER	NEC	P6	1988	\$587
Y	57030	PRINTER	EPSON	FX85	1988	\$349
Y	57710	PRINTER	EPSON	LX800	1988	\$300
Y	54926	PRINTER	EPSON	FX86E	1988	\$289
Y	62058	PRINTER	EPSON	FX1050	1989	\$449
Y	846871	PRINTER	EPSON	P82PA	1989	\$383
Y	61946	PRINTER	EPSON	P82PA	1989	\$368
Y	A016286	PRINTER	EPSON	P82PA(FX-850)	1989	\$339
Y	60940	PRINTER	EPSON	P70RA	1989	\$200
Y	60939	PRINTER	EPSON	P70RA	1989	\$200
Y	60942	PRINTER	EPSON	LX800	1989	\$200
Y	G073578	PRINTER	EPSON	LQ950	1990	\$512
Y	G073575	PRINTER	EPSON	LQ950	1990	\$512
Y	G073518	PRINTER	EPSON	P82PB	1990	\$336
Y	G073520	PRINTER	EPSON	FX850	1990	\$336
Y	1085938	PRINTER	PANASONIC	P1124	1991	\$279
Y	1083582	PRINTER	MATSUSHITA	KX-P1124	1991	\$278
Y	60943	PRINTER	EPSON	P70RA	1991	\$200
Y	141693	PRINTER	EPSON	FX286E	1992	\$530
Y	141691	PRINTER	EPSON	FX286E	1992	\$386
Y	1090383	PRINTER	PANASONIC	P1124	1992	\$294
Y	1090464	PRINTER	PANASONIC	P1124	1992	\$294
Y	1090407	PRINTER	EPSON	FX-850	1992	\$200
Y	1255116	PRINTER	HP	C2106A	1993	\$331
Y	1159752	PRINTER	PANASONIC	P2123	1993	\$251
Y	1159751	PRINTER	PANASONIC	P2123	1993	\$251
N	1260404	PRINTER	HP	C2001A	1994	\$2,086
Y	59726	PRINTER	EPSON	P88MA	1994	\$569
Y	1260372	PRINTER	PANASONIC	KXP2123	1994	\$255
Y	1260371	PRINTER	PANASONIC	KXP2123	1994	\$255
N	1426058	PRINTER	HP	C3142A	1996	\$2,679
Y	1429378	PRINTER	HP	C4576A	1996	\$490
Y	1741362	PRINTER	CANON	K10144A	1997	\$479
Y	NONE	PRINTER	EPSON	FX1050	N/A	\$471
Y	NONE	PRINTER	HP	82162A	N/A	\$421
N	NONE	PRINTER	EPSON	LX800	N/A	\$300
Y	57568	PRINTER BUFFER	MAX TECH	PB64	1988	\$99
Y	57567	PRINTER BUFFER	MAX TECH	PB64	1988	\$99
Y	141717	PRINTER BUFFER	MAX TECH	PB-64	1988	\$89
Y	NONE	PRINTER BUFFER	MAX TECH	PB64	N/A	\$120
Y	140396	PRINTER DIGITAL	EPSON	P82AA	1987	\$386
Y	NONE	PRINTER STAND	GLOBAL COMPUTER	C-6323	N/A	\$149
Y	NONE	PRINTER STAND	SMITH MFG	SM02805	N/A	\$108

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	PRINTER STAND	SMITH MFG	SM02805	N/A	\$108
Y	NONE	PRINTER STAND	SMITH MFG	SM02805	N/A	\$108
Y	NONE	PRINTER STAND	SMITH MFG CO	SM02805	N/A	\$85
Y	NONE	PRINTER STAND	SMITH MFG CO	SM02805	N/A	\$85
Y	NONE	PRINTER STAND	SMITH MFG CO	SM02805	N/A	\$85
Y	NONE	PRINTER STAND	SMITH MFG	SM02805	N/A	\$85
Y	NONE	PRINTER STAND	SMITH MANUFACTURING COMPANY	SM02805	N/A	\$85
Y	139258	PRINTER/PLOTTER	QUALITY MICRO	PS800	1987	\$4,495
Y	G078219	PRINTER/PLOTTER	HP	7440A	1990	\$855
Y	NONE	PROBE	TEKTRONIX	P6013	N/A	\$325
Y	NONE	PROBE/CLIP KITS	TEKTRONIX	P6562	N/A	\$629
Y	1159780	PROCESSOR	HP	98730A	1993	\$1,700
N	G079336	PROGRAMMABLE CALIBRATION GENERATOR	TEKTRONIX	CG5011	1990	\$18,072
N	547971	PROGRAMMABLE CALIBRATOR	TEKTRONIX	CG5001	1985	\$13,085
N	M094254	PROGRAMMABLE PULSE HEAD	TEKTRONIX	015-0311-01	NONE	\$1,935
Y	140544	PROGRAMMER POD	PSI	PS3100	1988	\$1,000
Y	NONE	PROTRACTOR	LANGLEY RESEARCH CENTER	NONE	N/A	\$150
Y	NONE	PRT	INT'L SENSORS	900P100D-4-2-1	N/A	\$150
Y	NONE	PULSE GENERAT	DATAPULSE	101	N/A	\$410
Y	467956	PULSE GENERATOR	SYSTRON DONNER	112	1973	\$1,651
Y	1259773	PULSE GENERATOR	DATAPULSE	110B	1973	\$1,213
Y	1259868	PULSE GENERATOR	HP	8011A	1981	\$1,086
Y	19602	PULSE GENERATOR	TEKTRONIX	PG502	1987	\$2,893
Y	NONE	PULSE GENERATOR	TEXAS INSTRUMENTS	6613RX3	N/A	\$950
Y	NONE	PULSE GENERATOR	TEKTRONIX	284	N/A	\$873
Y	NONE	PULSE GENERATOR	HP	8011A	N/A	\$792
Y	NONE	PULSE GENERATOR	HP	8011A	N/A	\$520
Y	NONE	PULSE GENERATOR	DATAPULSE	101	N/A	\$405
Y	NONE	PULSE GENERATOR	TEKTRONIX	PG501	N/A	\$340
Y	NONE	PULSE GENERATOR	TEKTRONIX	PG501	N/A	\$340
Y	1087289	PUMP	WELCH	8915A	1991	\$1,095
Y	NONE	PUMP	TELEDYNE	S-86-CN	N/A	\$495
N	1090402	PUMP CONTROLLER	ALCATEL	CFF450	1992	\$1,500
Y	1087290	PUMP VACUUM	WELCH	8915A	1991	\$1,095
Y	1087288	PUMP VACUUM	WELCH	8915A	1991	\$1,095
Y	1087287	PUMP VACUUM	WELCH	8915A	1991	\$1,095
Y	NONE	PWR SUP	UNHOLTZ DICKIE	608PS-1	N/A	\$425
Y	NONE	PWR SUP	TRYGON	SHR40-15A	N/A	\$199
Y	NONE	PWR SUP	TRYGON	SHR4015	N/A	\$199
N	142098	QUARTZ PRESSURE GAGE	RUSKA	DDR6000	1987	\$1,283
Y	142698	RADIOMETER	UNITED DETECTOR	S351F	NONE	\$980
Y	NONE	RAM ADAPTER	INNOVENTIONS	1 MEG	N/A	\$149
Y	NONE	RAM SPEED VERIFIER	INNOVENTIONS	NONE	N/A	\$169
Y	NONE	RAM TESTER	INNOVENTIONS	NONE	N/A	\$550
Y	NONE	RAM TESTER W/ADAPTERS	INNOVENTIONS	SIMCHECK	N/A	\$1,405
Y	NONE	RAMP GENERATOR	TEKTRONIX	RG501	N/A	\$175
Y	221347	RANGE CALIBRATOR	HP	11683A	NONE	\$709
N	1259652	RANGE EXTENDER	GUILDLINE	9923	1981	\$6,384
Y	A002066	RATE GYRO	R C ALLEN	F2880-025	NONE	\$500
N	1259858	RATE TABLE	INLAND	823	1975	\$22,396
Y	NONE	RATIO TRANS	GERTSCH	RT-5	N/A	\$400
Y	1428051	RATIO TRANSFORMER	TEGAM	M1011A	1997	\$5,891
N	1428053	RATIO TRANSFORMER	EATON	M1011A	1997	\$5,891
N	1428052	RATIO TRANSFORMER	TEGAM	M1011A	1997	\$3,308
Y	NONE	RATIO X FORMS	GERTSCH	501	N/A	\$300
Y	NONE	READER	BELL & HOWELL	SR VIII	N/A	\$177
Y	NONE	READER	BELL & HOWELL	SR VIII	N/A	\$177
Y	NONE	READER	BELL & HOWELL	SR VIII	N/A	\$177
Y	60178	READER/PRINTER	3M	7540	1989	\$3,889
Y	803311	READER/WRITER TRANSPORT	TOPCON	CR2	1994	\$490
N	1085616	READOUT	HEIDENHAIN	VRZ460	1991	\$1,656
Y	531287	RECEIVER	FLUKE	207	1986	\$2,775
N	NONE	RECEIVER	COLLINS	390A/UR	N/A	\$100
Y	NONE	RECEIVER	GENERAL ELECTRIC	10	N/A	\$88
N	1085804	RECEIVERMEASURING	HEWLETT-PACKARD	8902A	1991	\$28,217
Y	G078413	RECIRCULATOR	NESLAB	CFT-25D	1990	\$1,547
Y	NONE	REEL TAPE RACK	MONARCH	590	N/A	\$437
Y	NONE	REEL TAPE RACK	MONARCH	590	N/A	\$437
Y	NONE	REFERENCE MAGNET	RADIO FREQUENCY LABS	VA-172T	N/A	\$150
Y	NONE	REFERENCE MAGNET	RADIO FREQUENCY LABS	HB9272	N/A	\$150
Y	NONE	REFERENCE MAGNET	RADIO FREQUENCY LABS	HB9272	N/A	\$150
Y	NONE	REFERENCE MAGNET	RADIO FREQUENCY LABS	HB9272	N/A	\$150
Y	NONE	REFERENCE MAGNET	RADIO FREQUENCY LABS	A312-500	N/A	\$150
Y	NONE	REFRIGERATOR	UNION CARBIDE	LR50	N/A	\$636
Y	NONE	REFRIGERATOR DRYER	WILKERSON	A01AH	N/A	\$400
N	1262994	REGENERATIVE DRYER	INGERSOLL-RAND	HRM61-6	1994	\$2,600
Y	NONE	REGULATOR PRESSURE	SCOTT SPECIALTY GASES	11A	N/A	\$182
Y	1259642	RELAY SCANNER	HP	3495A	1979	\$2,921
Y	NONE	RESIST BOX	SHALLCROSS	6860	N/A	\$190
N	1259654	RESIST STND	L & N	4321B	1982	\$3,903
Y	NONE	RESIST SUB BOX	DUNKLEBERGER	236	N/A	\$20

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	RESIST SUB BOX	DUNKLEBERGER	236	N/A	\$20
Y	NONE	RESIST SUB BOX	DUNKLEBERGER	236	N/A	\$20
Y	NONE	RESIST SUB BOX	DUNKLEBERGER	236	N/A	\$20
N	1259655	RESISTANCE	L & N	4323B	1982	\$3,205
Y	NONE	RESISTANCE BOX	SHALLCROSS	6862	N/A	\$212
Y	NONE	RESISTANCE BOX	SHALLCROSS	6860RM	N/A	\$150
Y	NONE	RESISTANCE BOX	SHALLCROSS	6860RM	N/A	\$150
N	NONE	RESISTANCE BOX	SHALLCROSS	6860	N/A	\$135
Y	55799	RESISTANCE BOX DECADE	BIDDLE	72-6346	1988	\$2,220
N	1259651	RESISTANCE BRIDGE	GUILDLINE	9975	1981	\$15,355
N	280021	RESISTANCE CALIBRATOR	FLUKE	5450A	1985	\$3,755
N	G078980	RESISTANCE CALIBRATOR	FLUKE	5450A	1990	\$4,465
Y	258267	RESISTANCE STANDARD	VALHALLA	2724A	1986	\$4,713
Y	60959	RESISTANCE STANDARD	VALHALLA	2724A	1989	\$5,045
N	872151	RESISTANCE STANDARD	LEEDS & NORTHRUP	4214	1990	\$5,015
Y	A017297	RESISTANCE TRANSFER STANDARD	GENERAL RESISTANCE	106T	1997	\$800
N	NONE	RESISTOR	L & N	4214B	N/A	\$2,327
N	NONE	RESISTOR	L & N	4214B	N/A	\$2,327
Y	NONE	RESISTOR	RUBICON	15A	N/A	\$65
Y	1259997	RESOL STANDARD	ASTROSYSTEMS	A1202	1976	\$1,181
Y	NONE	RF MILLIVOLTMETER	HP	411A	N/A	\$450
N	281436	RF POWER AMPLIFIER	ELECTRIC NAVIGATION	550L	1985	\$6,050
Y	NONE	RF POWER AMPLIFIER	HP	467A	N/A	\$580
Y	221715	RF POWER METER	HP	436A	1986	\$3,213
Y	NONE	RF POWER SPLITTER	HEWLETT-PACKARD	11667B	N/A	\$1,011
Y	803437	RF SECTION	HP	8553B	1982	\$3,541
N	803691	RF SECTION	HP	70909A	1994	\$21,000
Y	NONE	RF SECTION	HP	8555A	N/A	\$8,600
N	G077522	RF SIGNAL GENERATOR	FLUKE	6061A	1990	\$5,541
Y	803421	RF UNIT	WEINSCHEL	436A	1983	\$1,189
N	550028	RMS MULTIMETER	FLUKE	8506A	1984	\$5,920
Y	1259865	RMS VOLTMETER	B & K	2425	1979	\$1,161
Y	NONE	RMS VOLTMETER	HP	3400A	N/A	\$563
Y	NONE	RMS VOLTMETER	HP	3400A	N/A	\$528
Y	M095177	RMS VOLTMETER	HP	3400A	NONE	\$320
N	284238	RUGGEDIZED CRT	CALZONE CASE	NONE	1986	\$2,494
N	284237	RUGGEDIZED CRT	CALZONE CASE	NONE	1986	\$2,494
Y	NONE	SABER SAW	BLACK & DECKER	582-6	N/A	\$94
Y	NONE	SANDBLASTER	EMPIRE ABRASIVE	P-50	N/A	\$100
N	1259628	SCANNER	HP	3495A	1977	\$2,822
N	1259694	SCANNER	HP	3495A	1978	\$3,416
Y	1259646	SCANNER	HP	3495A	1980	\$3,044
N	527616	SCANNER	DATA PROOF	160A	1986	\$3,650
N	1085363	SCANNER	PANASONIC	506	1991	\$983
Y	M095914	SCANNER	NEF	620516	1994	\$800
Y	1430783	SCANNER	HP	C2520B	1996	\$899
N	NONE	SCANNER	HP	C6270A	N/A	\$361
N	1091017	SCANNER DIGITIZER	PSI	8425	1992	\$3,740
Y	1259721	SCOPE	TEKTRONIX	545B	1975	\$1,635
Y	1259840	SCOPE CALIBRATOR	BALLANTINE	6125C	1983	\$6,500
Y	1090976	SCOPE CALIBRATOR	BALLENTINE LAB	6125C	1992	\$7,995
Y	NONE	SCOPE CART	MOBILE-TRONICS CO INC	MO-07	N/A	\$178
Y	NONE	SCOPE CART	TEKTRONIX	200C	N/A	\$125
Y	NONE	SCOPE CART	TEKTRONIX	200C	N/A	\$125
Y	NONE	SCOPE CART	TEKTRONIX	200C	N/A	\$125
Y	NONE	SCOPE CART	TEKTRONIX	B	N/A	\$110
Y	NONE	SCOPE CART	HP	1116A	N/A	\$100
N	1158041	SCOPEMETER	FLUKE	97	1992	\$1,562
N	21877	SCOPEMETER	FLUKE	97	1992	\$1,562
N	21876	SCOPEMETER	FLUKE	97	1992	\$1,562
Y	801197	SCOPEMETER	FLUKE	97	1992	\$1,561
Y	801199	SCOPEMETER	FLUKE	95	1992	\$1,300
N	1259610	SCREEN ROOM	NASA	4" X 8"	1973	\$2,000
N	1083732	SENSOR HYGROMETER	GENERAL EASTERN	1311XR	1991	\$8,495
N	1261699	SENSOR MODULE	HP	11722A	1994	\$2,368
N	1262648	SERVO CONTROLLER	LING	DSC4	1994	\$6,171
N	1262649	SERVO CONTROLLER	LING	DSC4	NONE	\$6,171
N	1259843	SHAKER	UNHOLTZ DICKIE	106A	1973	\$39,594
N	NONE	SHAKER AMPLIFIER	B & K	2706	N/A	\$891
N	471890	SHAKER ELECTRODYNAMIC	UNHOLTZ DICKIE	106A-1/2	1987	\$24,345
Y	NONE	SHEARER	DI-ACRO	3	N/A	\$335
Y	1259836	SHF SIGNAL GENERATOR	HP	628A	1981	\$3,417
Y	1259959	SHF SIGNAL GENERATOR	HP	626A	1981	\$3,417
Y	1259725	SHF SIGNAL GENERATOR	HP	618B	1981	\$2,269
N	1260024	SHOCK MACHINE	MONTEREY RESEARCH	9MP1336	1973	\$7,614
Y	NONE	SHUNT	L & N	4360	N/A	\$433
Y	NONE	SHUNT	FLUKE	A90	N/A	\$255
N	NONE	SHUNT	L & N	4361	N/A	\$250
N	NONE	SHUNT	HONEYWELL	300AMP	N/A	\$200
Y	NONE	SHUNT	L & N	4363	N/A	\$85
Y	NONE	SHUNT	HONEYWELL	1166	N/A	\$70

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	280238	SHUTTER ANALYZER	CAMILINE	22	1985	\$995
Y	1259966	SIG CONDITONE	DATAMETRICS	1015D5C	1975	\$1,297
Y	1259682	SIG CONDITONE	DATAMETRICS	1015D5C	1975	\$1,297
Y	1259681	SIG CONDITONE	DATAMETRICS	1015D5C	1975	\$1,297
Y	1259680	SIG CONDITONE	DATAMETRICS	1015D5C	1975	\$1,297
Y	1259962	SIG GENERATOR	BOONTON	102F	1982	\$5,359
Y	220938	SIGNAL ANALYZER	SENCORE	VA62	1986	\$2,966
N	21817	SIGNAL ANALYZER	ONO SOKKI	CF350	1991	\$39,105
Y	1259700	SIGNAL COND	DATAMETRICS	1015	1985	\$1,740
Y	1259697	SIGNAL COND	DATAMETRICS	1015	1985	\$1,740
Y	1259696	SIGNAL COND	DATAMETRICS	1015	1985	\$1,740
Y	1259701	SIGNAL CONDITIONER	DATAMETRICS	1015-D4C12A1G	1985	\$1,740
Y	1259702	SIGNAL CONDITIONER	DATAMETRICS	1015	1985	\$1,740
Y	58577	SIGNAL CONDITIONER	MKS	270B	1988	\$2,725
N	1090392	SIGNAL CONDITIONER	MKS	270C-5	1992	\$2,600
N	1090391	SIGNAL CONDITIONER	MKS	270C-5	1992	\$2,600
N	1090390	SIGNAL CONDITIONER	MKS	270C-5	1992	\$2,600
N	1159729	SIGNAL CONDITIONER	MKS	270C-5	1993	\$2,525
Y	NONE	SIGNAL CONDITIONER	NASA	Q FLEX	N/A	\$500
Y	NONE	SIGNAL CONDITIONER	SPECTRON	MUPI2	N/A	\$380
Y	NONE	SIGNAL CONDITIONER	WYLE	3	N/A	\$300
Y	1259954	SIGNAL GEN	WAVETEK	3000	1984	\$2,692
Y	1259809	SIGNAL GENERATOR	HP	203A	1976	\$1,876
Y	1259750	SIGNAL GENERATOR	TEKTRONIX	1470	1978	\$2,600
Y	1259774	SIGNAL GENERATOR	HP	8616A	1981	\$2,100
Y	1259765	SIGNAL GENERATOR	HP	606B	1981	\$1,562
Y	803422	SIGNAL GENERATOR	TEKTRONIX	SG504	1984	\$2,215
N	803474	SIGNAL GENERATOR	TEKTRONIX	SG503	1984	\$6,000
Y	NONE	SIGNAL GENERATOR	TEKTRONIX	191	N/A	\$674
Y	NONE	SIGNAL GENERATOR	TEKTRONIX	SG503	N/A	\$582
Y	NONE	SIGNAL GENERATOR	TEKTRONIX	191	N/A	\$425
Y	1259778	SIGNAL GENERATOR	HP	8614A	NONE	\$1,662
Y	NONE	SIGNAL STANDARD	TEKTRONIX	067-0587-01	N/A	\$385
Y	549962	SIGNATURE MULTIMETER	HP	5005B	1984	\$3,634
Y	NONE	SIM CHECK	INNOVENTIONS	RAM CHECK II	N/A	\$895
Y	19661	SINE WAVE GENERATOR	TEKTRONIX	SG503	1987	\$2,280
Y	NONE	SINE WAVE OSCILLATOR	MICRODOT	F321A	N/A	\$545
Y	NONE	SOLENOID VALVE	WHITEY	SS-33V54-31CC	N/A	\$359
Y	NONE	SOUND CALIBRATOR	GENRAD	1986	N/A	\$856
Y	NONE	SOUND CALIBRATOR	GENRAD	1986	N/A	\$856
N	1088394	SOUND LEVEL CALIBRATOR	B & K	4228	1991	\$5,174
N	1088393	SOUND LEVEL CALIBRATOR	B & K	4228	1991	\$5,174
N	NONE	SOUND LEVEL CALIBRATOR	GENRAD	1562A	N/A	\$195
N	NONE	SOUND LEVEL CALIBRATOR	GENRAD	1562A	N/A	\$195
N	M099687	SOUND LEVEL CALIBRATOR	B & K	4231	NONE	\$558
N	M099685	SOUND LEVEL CALIBRATOR	B & K	4231	NONE	\$558
N	A019065	SOUND LEVEL CALIBRATOR	B & K	4231	NONE	\$558
N	A019064	SOUND LEVEL CALIBRATOR	B & K	4231	NONE	\$558
N	A007786	SOUND LEVEL CALIBRATOR	B & K	4231A	NONE	\$492
Y	1260025	SOUND LEVEL METER	B & K	2209	1982	\$2,866
Y	54937	SOURCE CURRENT	KEITHLEY	220	1988	\$3,067
N	549239	SPEC ANALYZER	ONO SOKKI	CF 920	1984	\$20,805
N	NONE	SPECIAL PURPOSE RECEIVER	NEMS CLARK	1302A	N/A	\$400
N	58619	SPECTRUM ANALYZER	ONO SOKKI	CF940	1988	\$23,560
N	466904	SPECTRUM ANALYZER	HP	3580A	1975	\$10,000
N	1159757	SPECTRUM ANALYZER	STANFORD RESEARCH	SR760	1993	\$5,166
Y	NONE	SPRING WINDER	PERKINS	NONE	N/A	\$320
N	A014311	SPRT	L & N	8167-25B	1982	\$4,000
N	A014312	SPRT	L & N	8163	1982	\$4,000
N	NONE	SPRT	L & N	8167	N/A	\$4,000
N	NONE	SPRT	L & N	8163	N/A	\$4,000
N	NONE	SPRT CAPSULE	ROSEMOUNT	162D	N/A	\$2,626
N	NONE	SPRT CAPSULE	ROSEMOUNT	162D	N/A	\$894
N	1260013	SQUARE WAVE GENERATOR	TEKTRONIX	PG506	1984	\$1,636
Y	NONE	SQUARE WAVE GENERATOR	TEKTRONIX	106	N/A	\$665
Y	NONE	SQUARE WAVE GENERATOR	HP	211A	N/A	\$313
N	1090398	SR GAUGE CONTROLLER	MKS	SRG-2-488-SPSH	1992	\$13,000
Y	NONE	ST GAGE CALIB	BALDWIN LIMA HAMILTON	626	N/A	\$265
Y	NONE	STAKING TOOL	K D	18	N/A	\$133
Y	G077674	STANDARD CALIBRATION	DATRON	4708	1990	\$24,810
N	NONE	STANDARD CAPACITOR	GENRAD	1409-X	N/A	\$500
N	NONE	STANDARD CAPACITOR	GENRAD	1409-U	N/A	\$500
N	NONE	STANDARD CAPACITOR	GENRAD	1404-A	N/A	\$500
N	NONE	STANDARD CAPACITOR	GENRAD	1409Y	N/A	\$200
N	NONE	STANDARD CAPACITOR	GENRAD	1403-N	N/A	\$115
Y	NONE	STANDARD CAPACITOR	GENRAD	1615-P1	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1409-T	N/A	\$85
Y	NONE	STANDARD CAPACITOR	GENRAD	1409-R	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1409-M	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1409-L	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1409-K	N/A	\$85

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	NONE	STANDARD CAPACITOR	GENRAD	1409-G	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1409-F	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1403-K	N/A	\$85
N	NONE	STANDARD CAPACITOR	GENRAD	1403-G	N/A	\$85
Y	NONE	STANDARD CAPACITOR	GENRAD	1403D	N/A	\$80
N	NONE	STANDARD CAPACITOR	GENRAD	1409T	N/A	\$70
Y	NONE	STANDARD CAPACITOR	GENRAD	1409L	N/A	\$55
N	NONE	STANDARD CAPACITOR	GENRAD	1409F	N/A	\$55
Y	NONE	STANDARD INDUCTOR	GENRAD	1482T	N/A	\$385
Y	NONE	STANDARD INDUCTOR	GENRAD	1482P	N/A	\$190
Y	NONE	STANDARD INDUCTOR	GENRAD	1482E	N/A	\$175
N	NONE	STANDARD INDUCTOR	GENRAD	1482-R	N/A	\$170
Y	NONE	STANDARD INDUCTOR	GENRAD	1482N	N/A	\$160
N	NONE	STANDARD INDUCTOR	GENRAD	1482P	N/A	\$150
N	NONE	STANDARD INDUCTOR	GENRAD	1482L	N/A	\$150
N	NONE	STANDARD INDUCTOR	GENRAD	1482G	N/A	\$150
N	NONE	STANDARD INDUCTOR	GENRAD	1482E	N/A	\$150
N	NONE	STANDARD INDUCTOR	GENRAD	1482A	N/A	\$150
Y	NONE	STANDARD INDUCTOR	GENRAD	1482K	N/A	\$145
N	NONE	STANDARD INDUCTOR	GENRAD	1482-J	N/A	\$110
N	NONE	STANDARD INDUCTOR	GENRAD	1482-C	N/A	\$110
Y	98099	STANDARD INDUCTOR	GENRAD	1482-N	NONE	\$110
N	1259657	STANDARD RESISTOR	L & N	4210-B	1982	\$1,100
N	1259656	STANDARD RESISTOR	L & N	4210-B	1982	\$1,100
N	1259668	STANDARD RESISTOR	ESI	SR104	1984	\$3,235
N	A005449	STANDARD RESISTOR	GUILDLINE	65206	1993	\$720
Y	A017292	STANDARD RESISTOR	L & N	4025B	1997	\$150
Y	A017291	STANDARD RESISTOR	L & N	4025B	1997	\$150
Y	NONE	STANDARD RESISTOR	GENERAL RESISTANCE	106T	N/A	\$800
Y	NONE	STANDARD RESISTOR	GENERAL RESISTANCE	105T	N/A	\$750
Y	NONE	STANDARD RESISTOR	GENERAL RESISTANCE	104T	N/A	\$750
Y	NONE	STANDARD RESISTOR	ESI	SR1010	N/A	\$715
N	NONE	STANDARD RESISTOR	L & N	4223B	N/A	\$550
N	NONE	STANDARD RESISTOR	L & N	4210	N/A	\$500
Y	NONE	STANDARD RESISTOR	ESI	SR1	N/A	\$495
N	NONE	STANDARD RESISTOR	GUILDLINE	95206	N/A	\$325
Y	NONE	STANDARD RESISTOR	GENERAL RESISTANCE	103T	N/A	\$275
Y	NONE	STANDARD RESISTOR	GENERAL RESISTANCE	102T	N/A	\$275
N	NONE	STANDARD RESISTOR	L & N	4222B	N/A	\$250
N	NONE	STANDARD RESISTOR	L & N	4221B	N/A	\$250
Y	NONE	STANDARD RESISTOR	HONEYWELL	1100	N/A	\$225
Y	NONE	STANDARD RESISTOR	L & N	4222B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & N	4221B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & W	4050B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L&N	4045B	N/A	\$150
Y	NONE	STANDARD RESISTOR	RUBICON	4035B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & N	4035B	N/A	\$150
N	NONE	STANDARD RESISTOR	L & N	4030B	N/A	\$150
N	NONE	STANDARD RESISTOR	L & N	4030B	N/A	\$150
Y	NONE	STANDARD RESISTOR	RUBICON	4025B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & N	4025B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & N	4025B	N/A	\$150
Y	NONE	STANDARD RESISTOR	L & N	4050B	N/A	\$80
Y	NONE	STANDARD RESISTOR	L & N	4045B	N/A	\$75
Y	NONE	STANDARD RESISTOR	L & N	4025B	N/A	\$70
Y	NONE	STANDARD RESISTOR	L & N	4040B	N/A	\$57
Y	NONE	STANDARD RESISTOR	L & N	4035B	N/A	\$52
Y	NONE	STANDARD RESISTOR	L & N	4030B	N/A	\$52
Y	NONE	STANDARD RESISTOR-IOTOHM	PENN AIRBORNE	9A5119	N/A	\$810
Y	NONE	STANDARD RESISTOR-I TOHM	PENN AIRBORNE	9A5119-105	N/A	\$625
N	468567	STANDARDIZER CALIBRATION	UNHOLTZ DICKIE	1611	1987	\$1,455
N	468566	STANDARDIZER CALIBRATION	UNHOLTZ DICKIE	1611	1987	\$1,455
N	21241	STANDBY BATTERY	ARGO	AS210-05	1990	\$1,678
N	NONE	STANDARD CAPACITOR	GENRAD	1409-Y	N/A	\$500
Y	1159710	STEP ATTENUATOR	HEWLETT-PACKARD	84904K	1993	\$1,900
Y	58611	STRIP CHART RECORDER	LINSEIS	L2025	1988	\$3,278
Y	NONE	STROBOTAC	GENRAD	1531A	N/A	\$280
N	61648	SUBSYSTEM PROCESSOR	MODCOMP	TCP/PKG2-2C	1989	\$12,200
N	1089581	SUPERMINI COMPUTER	MODCOMP	9088-4	1991	\$92,218
Y	1259952	SWEEP GENERATOR	WAVETEK	164	1983	\$2,095
Y	1259827	SWEEP GENERATOR	WAVETEK	164	1983	\$2,095
Y	NONE	SWEEP GENERATOR	3M COMPANY	610A	N/A	\$941
Y	418956	SWEEP OSCILLATOR	SPECTRAL DYNAMICS	SD104A-5FS2	1985	\$2,215
N	468915	SWEEP OSCILLATOR	HP	3594A	1986	\$1,640
Y	1259830	SWEPPER SYSTEM	WEINSCHEL	4310A/K	1981	\$27,930
N	220674	SWITCH/CONTROL UNIT	HP	3488A	1985	\$3,750
Y	281923	SWITCH/CONTROLLER	HP	3488A	1985	\$1,559
Y	1259790	SYNTHESIZER	HP	3325A	1980	\$3,458
N	1085357	SYNTHESIZER FREQUENCY	HEWLETT-PACKARD	3325B	1991	\$4,563
N	G077531	T/C SIMULATOR/CALIBRATOR	ECTRON	1120	1990	\$4,958
Y	NONE	TABLE	DO ALL	NONE	N/A	\$660

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	549238	TACH TESTER	IDEAL AEROSMITH	18-53-4	1984	\$8,694
Y	NONE	TAP & DIE KIT	REGAL	NONE	N/A	\$188
Y	NONE	TAP & DIE SET	WIDELL	M4X5 LH	N/A	\$213
Y	1089495	TAPE BACKUP SYSTEM	VL	PST160F	1992	\$1,577
Y	60431	TAPE CALIBRATOR	DATATAPE	TSC2000	1989	\$9,952
Y	1088279	TAPE CALIBRATOR	DATATAPE	TSC-2000	1991	\$12,218
Y	1259897	TAPE DEGAUSSER	CONSOLIDATED CONTROL CORP	TD2903	NONE	\$1,353
N	37583	TAPE DRIVE	ANDATACO	X81CH31-A3282X	1996	\$1,143
N	NONE	TAPE DRIVE	HP	C1552D	N/A	\$838
Y	NONE	TAPE DRIVE	SEAGATE	STD68000N	N/A	\$700
Y	1259837	TAPE SEARCH UNIT	SYSTRON DONNER	8140-534	1981	\$2,086
N	1431705	TELEMETRY MODULE	EF JOHNSON CO	DL3420	1996	\$1,270
N	1431704	TELEMETRY MODULE	EF JOHNSON CO	DL3420	1996	\$1,270
N	1431703	TELEMETRY MODULE	EF JOHNSON CO	DL3420	1996	\$1,270
N	1431706	TELEMETRY MODULE	EF JOHNSON CO	DL3420	1996	\$2,976
N	1431707	TELEMETRY MODULE	EF JOHNSON CO	DL3420	1996	\$2,976
Y	404276	TELEVISION MONITOR	SONY	PVM1900	1983	\$794
N	1259623	TEMP BATH	ROSEMOUNT	914C4	1975	\$11,175
N	547850	TEMP BATH	ROSEMOUNT	914C2	1985	\$14,000
N	283365	TEMP CONTROL	L & N	6011-3	1985	\$863
Y	139690	TEMP/HUMID INDICATOR	VAISALA	HMI33	1987	\$1,286
N	1255114	TEMP/HUMIDITY CHAMBER	THUNDER SCIENTIFIC	8500	1993	\$92,787
N	1259658	TEMPERATURE BATH	GUILDLINE	9734120	1982	\$6,432
Y	20813	TEMPERATURE CALIBRATOR	THERMO ELECTRIC	31157	1990	\$2,275
Y	A005402	TEMPERATURE CONTROLLER	OMEGA	CN76133-PV	1995	\$235
Y	NONE	TEMPERATURE CONTROLLER	IRCON	3T06F	N/A	\$951
Y	NONE	TEMPERATURE CONTROLLER	SHIMADEN	SR-17	N/A	\$400
Y	NONE	TEMPERATURE CONTROLLER	OMEGA	4201-P-F2	N/A	\$350
Y	NONE	TEMPERATURE INDICATOR	FLUKE	2176A	N/A	\$546
N	1422927	TEMPERATURE TEST CHAMBER	DELTA DESIGN	9023	1994	\$4,170
Y	1259672	TEMPTEST CHAM	TENNEY	TENNEYJR	1979	\$4,802
Y	1090941	TERAOHMMETER	GUILDLINE	6500A	1992	\$11,950
N	353067	TERMINAL	GRAPHON	GO250	1986	\$2,246
Y	258276	TERMINAL	HP	35751M	1986	\$796
N	1091880	TERMINAL	TEKTRONIX	XP29	1992	\$2,308
Y	404201	TERMINAL	LEAR SIEGLER	ADM3A	1992	\$550
Y	NONE	TERMINAL	TELEVIDEO	920C	N/A	\$794
Y	1259671	TEST CHAMBER	TENNEY	T-55	1976	\$5,100
Y	282457	TEST CHAMBER	DELTA DESIGN	3900CN	1985	\$3,215
N	141908	TEST CHAMBER	DELTA DESIGN	9059	1987	\$4,890
N	141907	TEST CHAMBER TEMP	DELTA DESIGN	9023/9010	1987	\$4,035
Y	NONE	TEST FIXTURE	TEKTRONIX	177	N/A	\$950
Y	NONE	TEST OSCILLATOR	HP	652A	N/A	\$1,000
N	NONE	TEST OSCILLATOR	HP	651A	N/A	\$609
Y	NONE	TEST OSCILLATOR	HP	651A	N/A	\$599
Y	NONE	TEST OSCILLATOR	HP	651A	N/A	\$590
Y	220243	TEST SET	TEKTRONIX	FPEN834	1986	\$2,328
Y	1090896	TEST SET DATA	WILKE TECH	DATABLUE200	1992	\$1,054
Y	NONE	TEST TABLE	IDEAL AEROSMITH	1406R	N/A	\$235
Y	G074163	TEST TEMPERATURE CHAMBER	DELTA DESIGN	2614923	1990	\$6,290
N	NONE	TETHERSONDE	VAISALA	TS-5A-SP	N/A	\$1,460
N	NONE	TETHERSONDE	VAISALA	TS-5A-SP	N/A	\$1,460
N	1259630	THERMAL PRINTER	HP	9866	1977	\$3,216
N	1259644	THERMAL PRINTER	HP	9876A	1979	\$3,578
Y	1259963	THERMAL PRINTER	HP	9876A	1981	\$3,239
Y	1259667	THERMAL PRINTER	HP	9876A	1984	\$4,740
Y	A017299	THERMISTOR MOUNT	HP	478A	1997	\$600
Y	1259909	THERMO CALIBRATOR	ECTRON	1100CP	1978	\$2,538
Y	NONE	THERMO FLASK	LAB-LINE	2124	N/A	\$150
Y	NONE	THERMOCOUPLE	UNKNOWN	B	N/A	\$300
N	55333	THERMOCOUPLE CALIBRATOR	ECTRON	1120	1988	\$4,560
Y	55293	THERMOCOUPLE CALIBRATOR	ECTRON	1120	1988	\$4,560
Y	M097394	THERMOCOUPLE CALIBRATOR	FLUKE	Y2003	NONE	\$685
Y	NONE	THERMOCOUPLE MODULE	FLUKE	80TK	N/A	\$65
Y	M096532	THERMOCOUPLE SELECTOR	FLUKE	Y2001	1986	\$610
Y	NONE	THERMOCOUPLE SELECTOR	FLUKE	37347	N/A	\$635
Y	NONE	THERMOCOUPLE WIRE	UNKNOWN	R	N/A	\$300
N	NONE	THERMOCOUPLE WIRE	EVERHARD	R	N/A	\$300
N	NONE	THERMOCOUPLE WIRE	ENGLEHARD	TYPE R	N/A	\$200
N	NONE	THERMOCOUPLE WIRE	ENGLEHARD	TYPE B	N/A	\$200
Y	M099244	THERMO-HYGROMETER W/PROBE	OMEGA ENGINEERING	RH411	NONE	\$450
N	21593	THERMOMETER	MINOLTA/LAND	152A	1991	\$2,789
Y	NONE	THERMOMETER	FLUKE	2176A	N/A	\$618
Y	NONE	THERMOMETER	BROOKLYN	NONE	N/A	\$15
Y	NONE	THERMOMETER	BROOKLYN	MERCURY	N/A	\$15
N	1260447	THERMOMETER SYSTEM	HART SCIENTIFIC	1575	1994	\$9,995
Y	NONE	THICKNESS GAGE	STARRETT	467	N/A	\$125
N	1426056	THINNET REPEATER	BLACK BOX	LE8004A	1996	\$1,238
Y	777899	TIME BASE	TEKTRONIX	7B92A	1980	\$2,187
Y	NONE	TIME BASE	TEKTRONIX	7B70	N/A	\$675
Y	NONE	TIME BASE	TEKTRONIX	7B70	N/A	\$675



## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	TIME BASE GENERATOR	TEKTRONIX	TG501	N/A	\$462
N	1431148	TIME CODE GENERATOR	DATUM	9390-2000M	1996	\$3,789
N	1431147	TIME CODE GENERATOR	DATUM	9390-2000M	1996	\$3,789
N	1430566	TIME CODE GENERATOR	DATUM	9390-2000M	1996	\$3,789
N	1430565	TIME CODE GENERATOR	DATUM	9390-2000M	1996	\$3,789
N	1430564	TIME CODE GENERATOR	DATUM	9390-2000M	1996	\$3,789
Y	418657	TIME CODE GENERATOR-READER	SYSTRON-DONNER	8150	1972	\$4,528
Y	1259779	TIME CODE GENERATOR-READER	SYSTRON DONNER	8150-253	1981	\$3,710
N	1260021	TIME CODE READ	SYSTRON DONNER	8130203	1982	\$4,694
Y	NONE	TIME INTERVAL UNIT	HP	5262A	N/A	\$375
Y	NONE	TIME INTERVAL UNIT	HP	5262A	N/A	\$250
N	803475	TIME MARK GENERATOR	TEKTRONIX	TG501	1984	\$1,475
Y	19660	TIME MARK GENERATOR	TEKTRONIX	TG501	NONE	\$2,489
Y	803428	TIME MARK GENERATOR	TEKTRONIX	TG501	NONE	\$1,592
Y	140776	TIME RECORDER	VIBROGRAF	B200A	1987	\$1,865
N	1259922	TIMECODE READER	SYSTRON DONNER	8130	1975	\$4,435
Y	NONE	TIMER	GREINER ELECTRIC	LTP	N/A	\$550
Y	NONE	TOOL CHEST	CRAFTSMAN	65786 & 65787	N/A	\$180
Y	NONE	TOOL GRINDER	DUMORE	55-011	N/A	\$284
Y	NONE	TORQUE GAGE	ARRIFLEX	NONE	N/A	\$50
Y	NONE	TORQUE GAGE	CORREN	500	N/A	\$50
Y	NONE	TORQUE GAGE	CORREN	100	N/A	\$50
Y	NONE	TORQUE WRENCH	SNAP ON TOOLS	TQ12B	N/A	\$50
Y	NONE	TORQUE WRENCH	SNAP ON TOOLS	TQ3	N/A	\$44
Y	NONE	TORQUE WRENCH	APCO MOSSBERG	A-100	N/A	\$44
Y	NONE	TORQUE WRENCH	SNAP ON TOOLS	TQ-8	N/A	\$38
Y	NONE	TORQUE WRENCH	AMCO ENGINEERING CORP	SP25	N/A	\$12
N	1256699	TP-HUB	INTELLICOM	TPR206	1993	\$250
N	1256696	TP-HUB	INTELLICOM	TPR206	1993	\$250
Y	A007682	TP-HUB	INTELLICOM	TPAIR 206	1994	\$239
N	A007681	TP-HUB	INTELLICOM	TPAIR 206	1994	\$239
N	37595	TP-HUB	ALLIED TELESYN	AT-MR820TR	1996	\$135
Y	1259832	TRACKING GENERATOR	HP	8444A	1981	\$3,341
Y	411090	TRACKING GENERATOR/COUNTER	HP	8443A	1974	\$3,886
N	848443	TRAILER TOWER	ALUMA TOWER	TM51-20T1100	1989	\$8,270
N	848442	TRAILER TOWER	ALUMA TOWER	TM51-20T1100	1989	\$8,270
N	848441	TRAILER TOWER	ALUMA TOWER	TM51-20T1100	1989	\$8,270
N	NONE	TRANSCEIVER	JOHNSON DATA TELEMETRY	DL-3422	N/A	\$950
N	NONE	TRANSCEIVER	JOHNSON DATA TELEMETRY	DL-3422	N/A	\$950
Y	NONE	TRANSCEIVER	REALISTIC	TRC-83	N/A	\$40
Y	NONE	TRANSCEIVER	REALISTIC	TRC-83	N/A	\$40
Y	1259645	TRANSDUCTANCE AMPLIFIER	FLUKE	5220A	NONE	\$3,370
N	NONE	TRANSDUCER	SETRA SYSTEM	270	N/A	\$850
Y	NONE	TRANSDUCER	AUTO SPERRY	550660P	N/A	\$695
N	NONE	TRANSDUCER ASSEMBLY	B & K	9545	N/A	\$3,753
Y	NONE	TRANSISTOR TESTER	B&K PRECISION	510	N/A	\$110
N	1426406	TRANSMITTER/RECEIVER	AIR INC	5A RCVR	1995	\$7,000
N	1086000	TRANSPORT CASE	KEAL	NONE	1991	\$2,995
N	1085999	TRANSPORT CASE	KEAL	NONE	1991	\$2,995
Y	NONE	TRIPLE POINT	JARRETT INSTRUMENTS	B-13	N/A	\$658
Y	NONE	TRIPLE POINT	JARRETT INSTRUMENTS	B-11	N/A	\$658
Y	NONE	TRIPOD	CHICAGO MAJ	NONE	N/A	\$76
Y	NONE	TRIPOD	BERGER	NONE	N/A	\$50
Y	NONE	TRIPOD	QUICK SET	3	N/A	\$29
Y	NONE	TUBE TESTER	HICKOK	539B	N/A	\$410
Y	NONE	TV CAMERA	RCA	1005/01	N/A	\$596
Y	NONE	TV MONITOR	SONY	CVM1720	N/A	\$789
Y	1259724	UHF SIGNAL GENERATOR	HP	616B	1973	\$1,950
Y	1259758	UHF SIGNAL GENERATOR	HP	612A	1982	\$1,212
Y	NONE	ULTRASONIC CLEANER	POWSTRON	PA3001	N/A	\$865
N	1260369	UNINTERRUPTIBLE POWER SUPPLY	BEST POWER	FE850VA	1994	\$1,036
N	NONE	UNINTERRUPTIBLE POWER SUPPLY	APC	800RT	N/A	\$602
Y	NONE	UNIVERSAL COUNTER MODULE	HP	5302A	N/A	\$700
N	1426055	UPS POWER SUPPLY	BEST POWER TECHNOLOGY	FE31KVA	1996	\$2,012
Y	NONE	V O M	SIMPSON	260	N/A	\$63
Y	NONE	V O M	SIMPSON	260-5M	N/A	\$54
Y	NONE	V O M	SIMPSON	260	N/A	\$54
Y	NONE	V O M	SIMPSON	260	N/A	\$50
Y	NONE	V O M	SIMPSON	260	N/A	\$50
Y	1259670	VAC GAGE ANALY	AERO VAC	202	1973	\$3,655
Y	NONE	VAC GAUGE	HASTINGS	LV-1X	N/A	\$350
Y	NONE	VAC PUMP	WELCH	1402B	N/A	\$405
Y	NONE	VAC PUMP	WELCH	1402	N/A	\$343
Y	NONE	VAC PUMP	WELCH	1402	N/A	\$343
Y	NONE	VAC PUMP	WELCH	1402	N/A	\$328
Y	NONE	VAC PUMP	WELCH	1402	N/A	\$325
Y	NONE	VAC PUMP	WELCH	N/A	N/A	\$158
N	1090388	VACUUM CAL STATION	MKS	VGCS-200	1992	\$33,200
Y	NONE	VACUUM CLEANER	TECHNI-TOOL	MARK 7	N/A	\$233
N	1090389	VACUUM CONTROLLER	MKS	VGCS2	1992	\$8,200
Y	NONE	VACUUM GAGE	TELEDYNE HASTINGS	VT-6B	N/A	\$318

## Exhibit D GFE Hardware

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
Y	NONE	VACUUM GAGE	TELEDYNE HASTINGS	VT-6B	N/A	\$318
Y	NONE	VACUUM GAGE	TELEDYNE	VT-6B	N/A	\$245
Y	NONE	VACUUM GAGE	TELEDYNE	VT-6B	N/A	\$245
N	NONE	VACUUM GAGE	TELEDYNE	VT-6B	N/A	\$245
N	NONE	VACUUM GAGE	HASTINGS	VT-6B	N/A	\$215
Y	NONE	VACUUM GAGE	HASTINGS	SV1	N/A	\$140
Y	A005383	VACUUM GAUGE	TELEDYNE	VT-6B	1992	\$299
Y	NONE	VACUUM GAUGE	HASTINGS	VT-6	N/A	\$275
Y	NONE	VACUUM GAUGE	HASTINGS	VT-6	N/A	\$180
Y	56184	VACUUM GAUGE	HASTINGS	VT6B	NONE	\$255
N	NONE	VACUUM GAUGE & TUBE	TELEDYNE HASTINGS	310	N/A	\$918
N	G073850	VACUUM PUMP	WELCH	8814A	1990	\$1,140
N	G073849	VACUUM PUMP	WELCH	8814A	1990	\$1,140
N	G073848	VACUUM PUMP	WELCH	8814A	1990	\$1,140
N	G073847	VACUUM PUMP	WELCH	8814A	1990	\$1,140
N	1092724	VACUUM PUMP	WELCH	8915	1992	\$1,525
N	1092723	VACUUM PUMP	WELCH	8915	1992	\$1,525
N	1090403	VACUUM PUMP	ALCATEL	2004A	1992	\$1,500
N	1090404	VACUUM PUMP	ALCATEL	325	1992	\$1,500
N	1159765	VACUUM PUMP	WELCH	8915A	1993	\$1,525
Y	1257258	VACUUM PUMP	WELCH	8915A	1993	\$1,338
N	1260328	VACUUM PUMP	WELCH	8915A	1994	\$1,595
Y	NONE	VACUUM PUMP	SARGENT WELCH	8810	N/A	\$1,500
Y	NONE	VACUUM PUMP	WELCH	8810	N/A	\$600
Y	NONE	VACUUM PUMP	WELCH	1402	N/A	\$420
Y	NONE	VACUUM PUMP	WELCH	1402	N/A	\$420
Y	NONE	VACUUM PUMP	WELCH	1402	N/A	\$420
Y	NONE	VACUUM PUMP	WELCH	1402	N/A	\$343
Y	NONE	VACUUM PUMP	WELCH	1402	N/A	\$343
Y	NONE	VACUUM PUMP	WELCH	NONE	N/A	\$200
Y	NONE	VACUUM PUMP	FISHER SCIENTIFIC	1096V1	N/A	\$162
N	NONE	VACUUM PUMP	FISHER SCIENTIFIC	109611	N/A	\$148
N	1088621	VACUUM PUMP SYSTEM	VARIAN	V80	1991	\$8,800
N	NONE	VALVE ASSEMBLY	VARIAN	NONE	N/A	\$2,000
Y	NONE	VARIAC	GENRAD	W5MT3A	N/A	\$339
Y	NONE	VARIAC	GENRAD	W5MT3A	N/A	\$178
Y	NONE	VARIAC	GENRAD	W5MT3A	N/A	\$178
Y	NONE	VARIAC	GENRAD	W20MT3A	N/A	\$140
N	NONE	VARIAC/DM UNIT	NASA	1	N/A	\$700
Y	220939	VCR TESTER	SENCORE	VC63	NONE	\$359
Y	1259889	VECTORSCOPE	TEKTRONIX	520A	1976	\$3,104
Y	1085640	VERIFICATION KIT	HEWLETT-PACKARD	11812A	1991	\$1,993
Y	NONE	VERNIER HEIGHT GAGE	BROWN & SHARPE	C800A	N/A	\$122
N	A005435	VHF ATTENUATOR	HEWLETT-PACKARD	355F	1993	\$992
Y	1259760	VHF SIGNAL GENERATOR	HP	608D	1973	\$1,300
Y	1259761	VHF SIGNAL GENERATOR	HP	608C	1973	\$1,220
N	NONE	VIB CONSOLE	NASA	N/A	N/A	\$100
Y	NONE	VIBRATION FREE PLATFORM	KINETIC SYSTEM	2210-11	N/A	\$975
Y	NONE	VIDEO AMPLIFIER	HP	5261A	N/A	\$325
Y	1261288	VIDEO ANALYZER	B&K PRECISION	490	1994	\$881
Y	61043	VIDEO GENERATOR	TEKTRONIX	067-1221-00	1989	\$1,427
Y	NONE	VOLT CALIBRA	DATRON	4000A	N/A	\$603
Y	NONE	VOLT COMPENSAT	GENERAL RESISTANCE	LRC201	N/A	\$250
Y	NONE	VOLT OHMMETER	SIMPSON	260-6	N/A	\$60
Y	NONE	VOLT OHMMETER	SIMPSON	260-6	N/A	\$60
Y	NONE	VOLT OHMMETER	SIMPSON	260-6	N/A	\$60
Y	1259614	VOLTAGE AMPLIFIER	HP	746A	1975	\$2,030
Y	1259607	VOLTAGE CALIBRATOR	HP	745A	1973	\$4,521
Y	1259616	VOLTAGE CALIBRATOR	FLUKE	5200A	1975	\$3,915
Y	1259624	VOLTAGE CALIBRATOR	FLUKE	5200A	1976	\$4,360
Y	20015	VOLTAGE CALIBRATOR	FLUKE	5100B	1981	\$8,635
N	1260009	VOLTAGE CALIBRATOR	FLUKE	5101B	1984	\$11,746
Y	60760	VOLTAGE CALIBRATOR	FLUKE	5200A	1989	\$17,719
Y	NONE	VOLTAGE DIV	GENERAL RESISTANCE	DV4107	N/A	\$895
Y	1259965	VOLTAGE DIVIDE	ELIS	PHVD	1982	\$2,996
N	1259661	VOLTAGE DIVIDER	FLUKE	752A	1983	\$3,795
Y	A017295	VOLTAGE DIVIDER	FLUKE	8E+11	1997	\$350
N	NONE	VOLTAGE DIVIDER	ESI	RV722	N/A	\$900
Y	NONE	VOLTAGE DIVIDER	FLUKE	0.000000008	N/A	\$395
Y	NONE	VOLTAGE DIVIDER	GENRAD	1455BH	N/A	\$280
N	NONE	VOLTAGE DIVIDER	FLUKE	80E	N/A	\$225
N	803716	VOLTAGE JUNCTION UNIT	B & K	WB0850	1994	\$1,490
Y	1259601	VOLTAGE REGULATOR	SORENSEN	FR1000	1973	\$1,431
N	NONE	VOLTAGE REGULATOR	TRIPP LITE	LCR2400	N/A	\$400
N	NONE	VOLTAGE REGULATOR	TRIPP LITE	LCR2400	N/A	\$400
Y	1259984	VOLTAGE STANDARD	FLUKE	332-A	1979	\$2,308
N	398470	VOLTAGE STANDARD	EDC	501J	1986	\$3,720
Y	418291	VOLTAGE STANDARD	EDC	501H	1987	\$3,259
N	59794	VOLTAGE STANDARD	GUILDLINE	4410	1988	\$7,860
Y	55036	VOLTAGE STANDARD	EDC	MV-106	1988	\$1,698
N	1087493	VOLTAGE STANDARD	KOEP	VTS6001-1-01	1991	\$1,990

**Exhibit D  
GFE Hardware**

to Replace (Y/N)	ECN	ITEM DESCRIPTION	MANUFACTURER	MODEL #	Year Acquired	ACQ. COST
N	1160403	VOLTAGE STANDARD	WAVETEK	4920	1993	\$10,915
Y	NONE	VOLTAGE STANDARD	EDC	MV100	N/A	\$850
Y	NONE	VOLTAGE STANDARD	EDC	MV100N	N/A	\$805
Y	NONE	VOLTAGE STANDARD	EDC	MV100N	N/A	\$748
Y	NONE	VOLTAGE STANDARD	UNITED SYSTEMS	311	N/A	\$637
Y	220920	VOLTAGE STANDARD	EDC	520A-D	NONE	\$5,645
Y	417804	VOLTAGE STANDARD	EDC	501	UNKNOWN	\$3,259
Y	1259749	VOLTMETER	B & K	2606	1973	\$1,632
Y	1259923	VOLTMETER	SPECTRAL DYNAMICS	SD112-1	1977	\$3,234
N	1259706	VOLTMETER	HP	3455A	1979	\$3,666
Y	1259643	VOLTMETER	HP	3455A	1979	\$3,366
N	NONE	VOLTMETER	FLUKE	931B	N/A	\$965
Y	NONE	VOLTMETER	FLUKE	8842A	N/A	\$909
Y	NONE	VOLTMETER	FLUKE	8842A	N/A	\$909
N	NONE	VOLTMETER	FLUKE	8842A	N/A	\$909
Y	NONE	VOLTMETER	HP	400E	N/A	\$342
Y	NONE	VOLTMETER	HP	400FL	N/A	\$337
Y	M095178	VOLTMETER	HP	3400A	NONE	\$320
Y	NONE	VOLTMETER AC	BALLANTINE	300H	N/A	\$500
Y	1260030	VOLTMETER DIFFERENTIAL	FLUKE	883AB	1973	\$1,379
Y	NONE	VOM	SIMPSON	260-5M	N/A	\$63
Y	NONE	VOM	SIMPSON	260	N/A	\$62
Y	NONE	VOM	SIMPSON	260-6M	N/A	\$62
Y	NONE	VOM	SIMPSON	260-6	N/A	\$60
Y	NONE	VOM	SIMPSON	260-6	N/A	\$60
Y	NONE	VOM	SIMPSON	270	N/A	\$50
Y	NONE	WATCHMAKER BENCH	VIGOR	BN225	N/A	\$125
N	NONE	WATER TRIPLE POINT	HART SCIENTIFIC	5901	N/A	\$950
Y	NONE	WATER WELDER	HENES MFG CO	S	N/A	\$285
Y	NONE	WATTMETER	TERMALINE	67	N/A	\$275
Y	NONE	WATTMETER	MICROMATCH	712B	N/A	\$142
Y	NONE	WATTMETER	BIRD ELECTRONIC CORP	611	N/A	\$28
Y	1259780	WAVE ANALYZER	HP	312A	1981	\$3,912
N	468914	WAVE ANALYZER	HP	3590A	1986	\$3,280
N	848515	WEATHER RECORDING SYSTEM	CLIMATRONICS	101484	1989	\$13,675
N	NONE	WEATHER SONDES	AIR INC	TS-5A-SP	N/A	\$850
N	NONE	WEATHER SONDES	AIR INC	TS-5A-SP	N/A	\$850
N	NONE	WEATHER SONDES	AIR INC	TS-5A-SEN	N/A	\$850
N	NONE	WEATHER SONDES	AIR INC	TS-5A-SEN	N/A	\$850
Y	NONE	WEIGHT SCALE	FAIR MO	5901	N/A	\$128
N	1160369	WEIGHT SET	RUSKA	2465-781	1993	\$4,187
N	NONE	WEIGHT SET	RUSKA	5100-705	N/A	\$0
N	NONE	WEIGHT SET	RUSKA	2470-711	N/A	\$0
N	NONE	WEIGHT SET	RUSKA	2465-781	N/A	\$0
N	NONE	WEIGHT SET	DH INSTRUMENTS	100 KG	N/A	\$0
N	NONE	WEIGHT SET	RUSKA	2465-781	N/A	N/A
N	NONE	WEIGHT SET	RUSKA	2460-910	N/A	N/A
Y	NONE	WEIGHTS	AINSWORTH	CLASS S	N/A	\$200
Y	NONE	WELDER	SHIELD-ARC	SAE300	N/A	\$500
Y	55683	WELDER ELECTRONIC	BLACK & WEBSTER	WHD-47	1988	\$638
N	NONE	WELDER T/C	DYNA TECH	116SRL	N/A	\$795
Y	NONE	WELDING TOOLS	MARQUETE	NONE	N/A	\$140
Y	1259617	WHEAT BRIDGE	ELEC SCIENTIFIC	242D	1975	\$4,316
Y	1259603	WHEATSTONE RESISTOR	ESI	231C	1973	\$2,263
Y	NONE	WIDE RANGE OSCILLATOR	HP	200CD	N/A	\$282
Y	NONE	WIDE RANGE OSCILLATOR	HP	200CD	N/A	\$282
Y	NONE	WIDEBAND EXTENDER CARD	FLUKE	5700A-3106	N/A	\$204
Y	NONE	WINDOWS SOFTWARE	MICROSOFT	WINDOWS 95 35V	N/A	\$180
Y	NONE	WORK BENCH	VIGOR	BN-225	N/A	\$140
Y	A007651	WORK GROUP HUB	BLACK BOX	LE673A	1994	\$465
Y	NONE	WORK STATION	THE MARVEL GROUP	7200-3	N/A	\$906
Y	NONE	WORKSTATION	ULTIMATE COMPUTER SUPPLIES	NONE	N/A	\$131
N	NONE	WVV RECEIVER	BECKMAN	905	N/A	\$555
Y	474011	X Y RECORDER	PACIFIC MEASUREMENTS	1044	1986	\$2,070
Y	1259993	X-Y RECORDER	HP	7046A	1976	\$3,366

**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
3M	FASTAX I-IV	N/A	TECHNICAL	N/A
3M	M-475	N/A	TECHNICAL	N/A
3M COMPANY	7500	N/A	X/A	2 MANUALS/1 REFERENCE MANUAL
3M COMPANY	8300 A-W	N/A	A	SERVICE
3M MINCOM DIVISION (DATA CHECK)	8100A-W	N/A	INSTRUCTION MANUAL	FLUTTER METER
3M VISUAL PROD.	213	N/A	TECHNICAL	SERVICE
3M VISUAL PROD.	625	N/A	TECHNICAL	SERVICE
3M VISUAL PROD.	625	N/A	TECHNICAL	SERVICE
3M VISUAL PROD.	800	N/A	TECHNICAL	SERVICE
3M VISUAL PROD.	526-521-522-550	N/A	TECHNICAL	SERVICE
3M VISUAL PROD.	60-66	N/A	TECHNICAL	SERVICE
A AG THEROVISION	680	N/A	TECHNICAL	SERVICE
A.G. DAVIS	PRC-2000	N/A	TECHNICAL	USERS
A.H.SYSTEMS INC.	BCP-200 SERIES	N/A	DATA SHEETS	AC CURRENT PROBES
A.L.E. SYS	302L 302S 152L	N/A	N/A	TECHNICAL MANUAL
A.L.E. SYSTEMS INC.	152L	N/A	X	N/A
A.L.E. SYSTEMS INC.	302L	N/A	X	N/A
A.L.E. SYSTEMS INC.	302S	N/A	X	N/A
AA GAGE	CATALOG	N/A	D	ULTRADEX
AAE	310/310A	310	OPERATOR	12 IN DATA DISPLAY
AAE	600-700-710	710	SERVICE	COLOR MONITOR
AAE	AMDISK-V	AMDISK-V	SERVICE	LOGIC/IPB
AAE	VIDEO 100	100	SERVICE	MONO MONITOR
AAE	VIDEO 300	VIDEO 300	OPERATOR/SCHEMATIC	MONO MONITOR
AAE	VIDEO 310/310A	310A	SERVICE	MONO MONITOR
AAE	COLOR 722	COLOR722	SERVICE	SERVICE MANUAL
AAE	COLOR IV	COLOR-IV	SERVICE	WITH IPB
AALBORG	GFM-1700	N/A	L	N/A
AANDERAA	2593	N/A	H	SERVICE
AANDERAA INST.	DATALOGER DL-1	N/A	4	SCHEMATICS
AANDERAA INST.	DATALOGER DL-1	N/A	4	TECH NOTE
ABBEION CAL.	172	N/A	4	CATALOG
ABTRONICS INC.	200	N/A	K	2 MANUALS
ACCO BRISTOL	570	N/A	W	N/A
ACCO BRISTOL	571	N/A	W	N/A
ACCUTRONICS	M-5	N/A	K	N/A
ACCUTRONIX	TBG-1	N/A	K	N/A
ACI	8800	150-8800-001	SERVICE	ACD GAW SYSTEM
ACI	8026/8072	150-7131-001	OPERATORS SCHEMATICS	HIGH RESOLUTION COLOR MONITOR
ACL INC	350	N/A	N/A	CALIBRATION
ACL INC	385	N/A	N/A	CALIBRATION
ACL INC	386	N/A	N/A	CALIBRATION
ACL INC	500	N/A	N/A	CALIBRATION
ACL INC	600	N/A	N/A	CALIBRATION
ACL INC	750	N/A	N/A	CALIBRATION
ACL INC	800	N/A	N/A	CALIBRATION
ACL INC	300B	N/A	N/A	CALIBRATION
ACME ELECTRIC CORP	SM-1400	N/A	N/A	USER MANUAL
ACME ELECTRIC CORP	SM-650	N/A	N/A	USER MANUAL
ACME ELECTRIC CORP	SM-800	N/A	N/A	USER MANUAL
ACOPIAN CORP.	28b20DL	N/A	X	3 MANUALS
ACOUSTIC POWER SYS.	114	N/A	X	POWER AMP.
ACOUSTIC POWER SYS.	113	N/A	A	SHAKER
ACOUSTIC POWER SYS.	124	N/A	X	N/A
ACOUSTIC POWER SYSTEMS INC	114	N/A	N/A	CALIBRATION AND REPAIR
ACRE	AUTO DATA NINE	AD9 OP	OPERATOR	DATALOGER
ACRE	AUTODATA NINE	AD9 TC	TECHNICAL	TECHNICAL
ACROMAG	SERIES 1400	N/A	4	SERVICE
ACTION LAB	320-AB	N/A	K	N/A
ACTION LAB	500-A	N/A	K	N/A
ACUREX	207A	N/A	4	OPERATING
ACUREX	AUTODATA TEN/10	N/A	E	OPERATION/SERVICE
ACUREX	155S/J	N/A	4	SERVICE/OPERATING
ACUREX	AUTODATA 9	N/A	4	SERVICE/OPERATING
ADA	RDS 3000	BPS32P	PROGRAM	BPS32 GUIDE
ADA	RDS 3000	MA1024P	PROGRAM	MA1024 GUIDE
ADA	RDS 3000	ADG3000I	INSTALLATION	MICROPROCESSOR GRAPHICS ENHANCEMENT SYS
ADA	RDS 3000	RDS3000P	PROGRAM	REFERENCE MANUAL
ADA	RDS 3000	ADG3000S	SCHEMATICS	N/A
ADLAS	DPY 315	N/A	N/A	OPERATORS MANUAL
ADRET ELECTONIQUE	201	N/A	F	2 MANUALS
ADVANCED COLOR TECH.	ACT II	N/A	Q	3 MANUALS
ADVANCED KINETICS	CPA-9	N/A	H	INSTRUCTION
ADVANCED KINETICS	TYPE RC4B	N/A	H	INSTRUCTION
AD-YU	422A	N/A	K	2 MANUALS
AD-YU	305	N/A	K	N/A
AD-YU	405	N/A	K	N/A
AD-YU	308R-2S	N/A	K	N/A
AD-YU	405L	N/A	K	N/A
AD-YU	405-L2	N/A	K	N/A
AD-YU	524A	N/A	K	N/A
AERO FLEX LAB.	TA-100DC	N/A	K	N/A
AERO VAC	202	N/A	X	N/A
AERO VAC	AGC1	N/A	X	N/A
AEROSONIC ELECT.	PORTA MARINE IV	N/A	K	N/A
AEROTECH	CATALOG	N/A	D	POSITIONING SYS.
AEROTECH	HENE	N/A	X	N/A
AEROTRON INC.	60T1	N/A	K	N/A
AGA	680	N/A	G	MAINTENANCE
AGA	750	N/A	G	MAINTENANCE
AGA	750	N/A	G	OPERATION
AGA	AUTODATA TEN/10	N/A	E	TECHNICAL MANUAL
AGAC-DERRITRON INC.	OC-25	N/A	F	N/A
AGILENT TECHNOLOGIES	16522A	N/A	N/A	SERVICE GUIDE
AGILENT TECHNOLOGIES	16533A	N/A	N/A	SERVICE GUIDE
AGILENT TECHNOLOGIES	16534A	N/A	N/A	SERVICE GUIDE
AGILENT TECHNOLOGIES	16556A/D	N/A	N/A	SERVICE GUIDE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
AGILENT TECHNOLOGIES	16700A	N/A	N/A	SERVICE GUIDE
AGILENT TECHNOLOGIES	16701A	N/A	N/A	SERVICE GUIDE
AGILENT TECHNOLOGIES	16522A	N/A	N/A	USER MANUAL
AGILENT TECHNOLOGIES	16534A	N/A	N/A	USER MANUAL
AGILENT TECHNOLOGIES	16556A/D	N/A	N/A	USER MANUAL
AGILENT TECHNOLOGIES	16700A	N/A	N/A	USER MANUAL
AHE	4330	25355-002	TECHNICAL	PRODUCT DESCRIPTION
AHE	4322	27296-002	SERVICE	PRODUCT DESCRIPTION MANUAL
AHE	4520NT	25356-002	TECHNICAL	TECHNICAL REFERENCE MANUAL
AHE	605	21981-001	TECHNICAL	THEORY OF OPERATION AND MAINTENANCE MANUAL
AHE	60S 1255S 150S	21981-001	TECHNICAL	VIPER SCSI MT THEORY AND MAINT MANUAL
AIDI	CT 1500	N/A	K	N/A
AIRADIO INC.	LAE-2	N/A	K	N/A
AIRBORNE INSTS.	124A	N/A	F	N/A
AIRBORNE INSTS.	124C	N/A	F	N/A
AIRFLYTE ELECTRONICS CO.	CATALOG B77	N/A	CATALOG	SLIP RING
AIRPAX	TACHTROL 3	N/A	X	INSTRUCTION
AIRPAX	FDS30	N/A	K	N/A
AIRPAX	FDS34	N/A	K	N/A
AIRPAX	FDS35	N/A	K	N/A
AIRPAX	FDS4/A	N/A	K	N/A
AIRPAX	PA555	N/A	X	N/A
AIRPAX	SDS2	N/A	K	N/A
AJI	AJ841	96-14942-010	SERVICE	INPUT/OUTPUT TERMIN
AJI	AJ841	9714816-020	SERVICE	SELECTRONIC TERMINA
AKAI	VTS-150	N/A	U	N/A
ALCOR	EGT	N/A	H	CAL PROCEDURE
ALDEN	MARINEFAX III-IV	N/A	N/A	N/A
ALFRED ELECTRONICS	621B	N/A	J	2 MANUALS
ALFRED ELECTRONICS	650	N/A	K	6 MANUALS
ALFRED ELECTRONICS	502A	N/A	J	NOT IN FILE
ALFRED ELECTRONICS	252	N/A	J	N/A
ALFRED ELECTRONICS	702	N/A	J	N/A
ALFRED ELECTRONICS	1001	N/A	J	N/A
ALFRED ELECTRONICS	1002	N/A	J	N/A
ALFRED ELECTRONICS	2020	N/A	J	N/A
ALFRED ELECTRONICS	325A	N/A	K	N/A
ALINCO	ND-2	N/A	E	OPERATION AND MAINTENANCE
ALINCO	205	N/A	K	N/A
ALINCO	101-5BF	N/A	W	N/A
ALL AMERICAN	10	N/A	W	N/A
ALL AMERICAN	25	N/A	W	N/A
ALLEGANY	518	N/A	K	N/A
ALLEGANY	CS2-1001	N/A	U	N/A
ALLEGANY	ND-2	N/A	X	N/A
ALLEN	1000	N/A	N/A	INSTRUCTION/MAINTENANCE
ALLEN DATAGRAPH	2100	N/A	N/A	N/A
ALLEN DATAGRAPH	2100	N/A	N/A	N/A
ALLIED	995	N/A	K	3 MANUALS
ALLIED IMPEY CORP.	500	N/A	N/A	N/A
ALLIED RADIO	4310A	N/A	U	N/A
ALNOR	5000	N/A	W	32 MANUALS
ALNOR	5001	N/A	W	32 MANUALS
ALNOR	AL-TEMP2	N/A	H	BULLETIN
ALNOR	VARIOUS	N/A	H	CATALOG
ALNOR	52305	N/A	H	INSTRUCTION
ALNOR	SCR53205	N/A	H	INSTRUCTION
ALNOR	7300	N/A	H	INSTRUCTIONS
ALNOR	N-19	N/A	H	INSTRUCTIONS
ALNOR	FORM 7244	N/A	H	SERVICE
ALNOR INSTRUMENT CO.	7000 SERIES	N/A	OPER/SERV	DEWPOINT INDICATORS
ALPHA	CATALOG	N/A	E	CONNECTORS
ALTEC	2400	N/A	X	N/A
ALTEC	1591A	N/A	K	N/A
ALTEC	1612A	N/A	K	N/A
ALTEC	526B	N/A	K	N/A
ALTEC	771B	N/A	K	N/A
ALTEC	771BX	N/A	K	N/A
ALTEC	9440-A	N/A	K	N/A
ALTEC	9477B	N/A	K	N/A
ALTEC	9860A	N/A	K	N/A
ALTEK	234	N/A	K	N/A
ALTEU	134	N/A	E	CALIBRATION PROCEDURE
ALTON INSTRUMENTS	LS-2000 C	N/A	TECH USER MANUAL	TECH USER MANUAL
AMBER	4500	N/A	H	SCHEMATICS
AMBER	4400A	N/A	X	N/A
AMBER	4400A	N/A	X	N/A
AMDEK	310	N/A	Q	N/A
AMDEK	310A	N/A	Q	N/A
AMERICAN ARIUM CORP	ML4400	N/A	N/A	OPERATING MANUAL VOL1
AMERICAN ARIUM CORP	ML4400	N/A	N/A	OPERATING MANUAL VOL2
AMERICAN ELEC. LAB.	101	N/A	K	N/A
AMERICAN ELEC. LAB.	240	N/A	X	N/A
AMERICAN ELEC. LAB.	245	N/A	X	N/A
AMERICAN ELEC. LAB.	240A	N/A	X	N/A
AMERICAN INSTRUMENT	VARIOUS	N/A	H	CATALOG
AMERICAN INSTRUMENT	15-3050	N/A	H	INSTRUCTION
AMERICAN INSTRUMENT	VARIOUS	N/A	H	INSTRUCTION 101C
AMERICAN INSTRUMENT	VARIOUS	N/A	H	INSTRUCTION 103A
AMERICAN INSTRUMENT	VARIOUS	N/A	H	INSTRUCTION H101A
AMERICAN INSTRUMENT	15-7012	N/A	H	INSTRUCTION H170
AMERICAN NUCL. CORP.	ANC-102B	N/A	I	N/A
AMERICAN NUCL. CORP.	ANC-201	N/A	I	N/A
AMERICAN OPTICAL	CYCLOPTIC	N/A	N/A	MICROSCOPE
AMERICAN PAULIN SYS.	NONE	N/A	H	BAROMETER/2 MANUALS
AMERICAN POWER CONVERSION	BACKUPS 250/1250	N/A	OPERATION	OPERATION
AMERICAN POWER CONVERSION	UPS 250 400 450 600	N/A		
AMERICAN POWER CONVERSION	900 1250	N/A	N/A	OWNER'S MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
AMERICAN POWER CONVERSION	UPS 250	N/A	N/A	USER MANUAL
AMERICAN POWER CONVERSION	UPS 1250	N/A	N/A	USERS MANUAL
AMERICAN POWER CONVERSION	UPS 400	N/A	N/A	USERS MANUAL
AMERICAN POWER CONVERSION	UPS 450	N/A	N/A	USERS MANUAL
AMERICAN POWER CONVERSION	UPS 600	N/A	N/A	USERS MANUAL
AMERICAN POWER CONVERSION	UPS 900	N/A	N/A	USERS MANUAL
AMERICAN TIME PRODS.	1336-3	N/A	W	2 MANUALS
AMERICAN TIME PRODS.	SC-16	N/A	F	2 MANUALS
AMERICAN TIME PRODS.	L42HHB	N/A	W	SCHEMATIC
AMERICAN TIME PRODS.	NONE	N/A	W	WATCH RATE RECORDER (NOT IN FILE)
AMERICAN TIME PRODS.	2111-1	N/A	F	N/A
AMETEK	55A	N/A	B	CATALOG
AMETEK	57M	N/A	B	CATALOG
AMETEK	57P	N/A	B	CATALOG
AMETEK	MODCAL	N/A	E	USER'S SHOP MANUAL
AMETEK	K	N/A	B	N/A
AMETEK	K	N/A	B	N/A
AMETEK	K	N/A	PK	N/A
AMETEK	PK	N/A	B	N/A
AMETEK	T-130	N/A	B	N/A
AMETEK	TM-1B	N/A	N	N/A
AMETEK	TM-2B	N/A	N	N/A
AMF	ACS-120R	N/A	K	N/A
AMI	15-3057	N/A	H	N/A
AMI	47-1251SSP	N/A	B	N/A
AMP	1860 SERIES	3265821-01REVB	SERVICE	CORE
AMP	1880 SERIES	3265815-01D	SERVICE	CORE
AMP	1885 SERIES	3265832-01A	SCHEMATICS	CORE
AMP	RF-5	3261827-01	SERVICE	CORE
AMP	DM9300	3301815-01	SCHEMATICS/SERVICE	DISK DRIVE
AMP	DM9300	3308185-01	SCHEMATICS/SERVICE	DISK DRIVE
AMP	RF-5	3261827-01	SCHEMATICS	MAGNETIC CORE MEMORY
AMP	TM100	5203801-02	MAINTENANCE	SCHEMATICS
AMP	TM-100	5203801-02	SERVICE	TAPE DRIVE
AMP	TM16(200SERIES)	3110469-01REVA	TECHNICAL	N/A
AMP	TM1624/TM1629	3110494-01REVA	SERVICE	N/A
AMPEX	7784	N/A	W	2 MANUALS
AMPEX	S-3066-A	N/A	U	2 MANUALS
AMPEX	S-3063	N/A	W	3 MANUALS
AMPEX	AG-500	N/A	U	AL-500
AMPEX	AN/ALH-4	N/A	U	XH-1 XH-2
AMPEX	307	N/A	U	N/A
AMPEX	600	N/A	U	N/A
AMPEX	800	N/A	U	N/A
AMPEX	1882-3	N/A	W	N/A
AMPEX	AG-440C	N/A	U	N/A
AMPEX	AR102-RN	N/A	U	N/A
AMPEX	AR-200	N/A	U	N/A
AMPEX	CC 300	N/A	K	N/A
AMPEX	CP-100	N/A	U	N/A
AMPEX	ES-100	N/A	U	N/A
AMPEX	ES-100A	N/A	U	N/A
AMPEX	ES-200	N/A	U	N/A
AMPEX	FR100	N/A	W	N/A
AMPEX	FR-100A	N/A	U	N/A
AMPEX	FR-100B	N/A	U	N/A
AMPEX	FR-100C	N/A	U	N/A
AMPEX	FR-1100	N/A	U	N/A
AMPEX	FR-1200	N/A	U	N/A
AMPEX	FR-1260	N/A	U	N/A
AMPEX	FR-1300	N/A	U	N/A
AMPEX	FR-1300A	N/A	U	N/A
AMPEX	FR-1400/600	N/A	U	N/A
AMPEX	FR-1800H	N/A	U	N/A
AMPEX	FR-1800L	N/A	U	N/A
AMPEX	FR-1900	N/A	U	N/A
AMPEX	FR-200	N/A	U	N/A
AMPEX	FR-2000/A	N/A	U	N/A
AMPEX	FR-3000	N/A	U	N/A
AMPEX	FR-3010	N/A	U	N/A
AMPEX	FR-3020	N/A	U	N/A
AMPEX	FR-600	N/A	U	N/A
AMPEX	FR-700	N/A	U	N/A
AMPEX	MM-1100	N/A	U	N/A
AMPEX	MR100	N/A	U	N/A
AMPEX	PR-2200	N/A	U	N/A
AMPEX	PR-2230	N/A	U	N/A
AMPEX	PR-500	N/A	U	N/A
AMPEX	S-3331	N/A	U	N/A
AMPEX	S-3649	N/A	U	N/A
AMPEX	S-3650	N/A	W	N/A
AMPEX	SE-10	N/A	U	N/A
AMPEX	SE-10	N/A	W	N/A
AMPEX	SP-700	N/A	U	N/A
AMPEX	TBC-80	N/A	U	N/A
AMPEX	TC-10	N/A	U	N/A
AMPEX	TU-40	N/A	U	N/A
AMPEX	TU-40	N/A	X	N/A
AMPEX	VPR-80	N/A	U	N/A
AMPEX	VR-1500	N/A	U	N/A
AMPEX	VR-2000	N/A	U	N/A
AMPEX	VR-7500	N/A	U	N/A
AMPEX	VR-7800-01	N/A	U	N/A
AMPLIFIER RESEARCH	1000W1000M1	N/A	OPERATING AND SERVICE	OPERATING AND SERVICE 10/18/93
AMPLIFIER RESEARCH	CP3000	N/A	OPERATING AND SERVICE	OPERATING AND SERVICE 10/18/93
AMPLIFIER RESEARCH	DC-6000	N/A	OPERATOR & SPECS	OPERATOR AND SPECIFICATION
AMPLIFIER RESEARCH	DC 2000	N/A	OPERATOR AND SPECS	OPERATOR AND SPECIFICATIONS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
AMPLIFIER RESEARCH	DC5000	N/A	OPERATOR & SPECS	OPERATOR AND SPECIFICATIONS
AMSLER	626	N/A	R	N/A
AMSLER	NO:1	N/A	R	N/A
ANA	ANDSS400	16-400034-II	TECHNICAL	OPERATOR SERVICE SCHEMATICS
ANA	ANDSS400	16-400034-I	TECHNICAL	SERVICE OPERATOR SCHEMATICS
ANA	AN2600 SERIES	AN2600	OPERATOR	N/A
ANADEX	P1-408	N/A	K	2 MANUALS
ANADEX	PI-408	N/A	X	FREQ TO DC CONVERTER
ANADEX	102	N/A	W	N/A
ANADEX	121	N/A	W	N/A
ANADEX	122	N/A	W	N/A
ANADEX	CF-200-J1024	N/A	K	N/A
ANADEX	DC-200-J1024	N/A	K	N/A
ANADEX	HR-608	N/A	K	N/A
ANADEX	HR-618	N/A	K	N/A
ANADEX	P1-101	N/A	W	N/A
ANALAB	500	N/A	K	KAC 2 MANUALS
ANALAB	600	N/A	K	KAC 2 MANUALS
ANALAB	700	N/A	K	KAC 2 MANUALS
ANALAB	1100	N/A	K	N/A
ANALAB	1120	N/A	K	N/A
ANALAB	1200	N/A	K	N/A
ANALAB	1200	N/A	K	N/A
ANALAB	1100R	N/A	K	N/A
ANALAB	1120R	N/A	K	N/A
ANALAB	1200R	N/A	K	N/A
ANALAB	1220R	N/A	K	N/A
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	2B52/53	N/A	H	CAL PROCEDURE
ANALOG DEVICES	AD2006	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2008	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2011	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2016	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2021	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2022	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD2036	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	AD520	N/A	E	CALIBRATION PROCEDURE
ANALOG DEVICES	2B58	N/A	H	SPECIFICATIONS
ANALOG DEVICES	AD590	N/A	H	SPECIFICATIONS
ANALOG DEVICES	401	N/A	X	N/A
ANALOG DEVICES	902	N/A	X	N/A
ANALOG DEVICES	MAC BASIC	N/A	Q	N/A
ANALOG DEVICES	MAC BASIC 3	N/A	Q	N/A
ANALOG DEVICES	MAC SYM	N/A	Q	N/A
ANALOG DEVICES	MACSYM FSS150	N/A	Q	N/A
ANALOGIC	2020-25	N/A	N/A	CALIBRATION & MAINTENANCE
ANALOGIC	A/D/A/M-724	N/A	E	CALIBRATION PROCEDURE
ANALOGIC	AN2510	N/A	E	CALIBRATION PROCEDURE
ANALOGIC	AN452	N/A	E	CALIBRATION PROCEDURE
ANALOGIC	ANDSS400	N/A	N/A	DATA ACQUISITION SYSTEM
ANALOGIC	D1000	N/A	N/A	MAINTENANCE AND USER MANUAL
ANALOGIC	AN3100	N/A	E	OPERATION AND MAINTENANCE
ANALOGIC	2040/2045	N/A	N/A	SERVICE MANUAL
ANALOGIC	AN2536	N/A	E	SPECIFICATION DATA
ANALOGIC	AN2546	N/A	E	SPECIFICATION DATA
ANALOGIC	AN2570	N/A	E	SPECIFICATION DATA
ANALOGIC	PI2400	N/A	E	SPECIFICATION DATA
ANALOGIC	PI2452	N/A	E	SPECIFICATION DATA
ANALOGIC	PI4400	N/A	E	SPECIFICATION DATA
ANALOGIC	PI4452	N/A	E	SPECIFICATION DATA
ANALOGIC	2020-25	N/A	N/A	USERS MANUAL
ANALOGIC	6000	N/A	K	N/A
ANALOGIC	AN2536	N/A	X	N/A
ANALOGIC	AN2546	N/A	X	N/A
ANALOGIC CORP.	ANDSS400 SERIES	N/A	INSTRUCTION/SERVICE MANUAL	DATA ACQUISITION SYSTEM
ANALYTICAL	RCP74	N/A	E	OPERATING INSTRUCTIONS
ANB	WP6000	9500-8045-00	TECHNICAL	SERVICE PRINTER
ANCHOR AUTOMATION	MARK XII	N/A	Q	N/A
ANDERSON JACOB	A242	N/A	A	N/A
ANTLAB	7207	N/A	K	N/A
AOK	5PT32 3 XDS	5PT32 3	SCHEMATIC	16'PWR&SUP PARTS
API	4304	N/A	E	CALIBRATION PROCEDURE
API	450	N/A	H	INSTRUCTION
API	225/226	N/A	H	INSTRUCTION
API	225/226	N/A	H	INSTRUCTION
API	905B/907B	N/A	H	INSTRUCTION
API	905B/907B	N/A	H	INSTRUCTION
API	909B	N/A	H	INSTRUCTION
APL	520/580-MRD380	511-30200	SERVICE	CRT
APL	520/580-MRD380	511-30200	SERVICE	MODCOMP TERM
APM	IIE	030-0408-A	INSTALLATION	80-COL TEXT CARD
APM	CROSS FAMILY	072-0062-V3	TECHNICAL PROCEDURES	ALL IMAGEWRITERS
APM	LASER	072-0163	TECHNICAL PROCEDURES	ALL LASER WRITERS
APM	II	ISBN067221959X	TECHNICAL	APPLE II
APM	ARCHIVE	072-0062-V4	TECHNICAL PROCEDURES	APPLE II/III ARCHIVED PRODUCTS VOL. 1
APM	ARCHIVE	072-0062-V2	TECHNICAL PROCEDURES	APPLE II/III ARCHIVED PRODUCTS VOL. 2
APM	ALL	072-0631-B	SERVICE	APPLE LASER SERVICE GUIDE - ADDENDUM
APM	ALL	72-0631	SERVICE	APPLE LASER SERVICE GUIDE VOLUME I
APM	ALL	072-0632	SERVICE	APPLE LASER SERVICE GUIDE VOLUME II
APM	ALL	072-0266	SERVICE	APPLE SERVICE GUIDE VOLUME I
APM	ALL	072-0276	SERVICE	APPLE SERVICE GUIDE VOLUME II
APM	ALL	072-8062	SERVICE	APPLE SERVICE NOTES
APM	ALL	N/A	SERVICE	APPLE SERVICE NOTICES

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
APM	APPLE ALL	072-0082	SERVICE	APPLE SERVICE PROGRAM
APM	LASERWRITER 2	072-0163	SERVICE-TECHNICAL-IPB	DIAGNOSTICS
APM	APPLE II	072-0062-V5	TECHNICAL PROCEDURES	DISK DRIVES AND MONITORS
APM	II	A2L0036	PROGRAM	DOS
APM	II II+ IIE	030-0536-A	PROGRAM	DOS PROGRAMMERS MANUAL
APM	II IIE II+	030-0407-A	PROGRAM	DOS USER'S MANUAL
APM	IIE	030-0496-A	OPERATOR	EXT 80-COL TEXT CARD SUPPLEMENT
APM	MAC+/MACSE/MAC2	SYMANTEC UTILS	DIAGNOSTIC/OPERATOR	FOR HARD DISK REPAIR/RECOVER ON ALL MACS
APM	MAC	30-1922-A	OPERATOR	HEALTHY WORK ENVIRONMENT
APM	MAC ALL	VOL3	TECHNICAL	HIGH-RES MONO HIGH-RES RGB PORTRIAT PORTRIAT-B
APM	MAC	030-3543-B	OPERATOR	HYPER CARD BASICS
APM	APPLE II	072-0062-V1	TECHNICAL PROCEDURES	IIC IIE IIC+ IIGS
APM	II	030-0357A	TECHNICAL	IIE REF. MANUAL
APM	CROSS FAMILY	VOLUME 3	TECHNICAL	IMAGewriter LQ
APM	II	ASSC-P	OPERATOR	INSTALLATION OF SUPER SERIAL CARD
APM	MAC	I655D/M0697	NETWORK DIAGNOSTIC	INTERPOLL
APM	N/A	072-8631	SERVICE	LASERWRITER PRINTERS VOL I
APM	N/A	072-0633	SERVICE	LASERWRITER PRINTERS VOL II
APM	N/A	072-0087	SERVICE	LASERWRITER PRINTERS VOL III
APM	12/600	072-0088	SERVICE	LASERWRITER PRINTERS VOL IV
APM	16/600 LWS360	LASERWRITER	SERVICE	LASERWRITER SERVICE MANUAL
APM	MACINTOSH	072-0268	SERVICE GUIDE	LOCATED IN SMG STOCK ALL MACINTOSH
APM	MACINTOSH	MAC-BIBLE	TECHNICAL	LOCATED IN SMG STOCK MACINTOSH BIBLE
APM	MACINTOSH	072-0062	TECHNICAL	MAC + SE SE/30 PORTABLE
APM	MACINTOSH	072-0062-V9	TECHNICAL PROCEDURES	MACII IIX IIFX IICX IICI
APM	N/A	072-0049	SERVICE	MACINTOSH COMPUTERS VOL. III
APM	N/A	072-0083	SERVICE	MACINTOSH COMPUTERS VOL. IV
APM	N/A	072-0209	SERVICE	MACINTOSH COMPUTERS VOL. V
APM	N/A	072-0206	SERVICE	MACINTOSH DISPLAYS AND VIDEO CARDS
APM	MOD01A	M1503	OPERATORS	MACINTOSH PLUS USER/ OPERATOR MANUAL
APM	MAC	030-1751-B	OPERATOR	MACINTOSH USERS GUIDE FOR DESKTOP MACS
APM	CROSS FAMILY	072-0062-V7	TECHNICAL PROCEDURES	MODEMS AND DISK DRIVES
APM	CROSS FAMILY	072-0062-V8	TECHNICAL PROCEDURES	NETWORKS AND OPTION CARDS
APM	MONITOR III	030-0193-A	OPERATOR	OPERATOR AND SCHEMATICS
APM	II	A2L0043	PROGRAM	OPERATOR MANUAL
APM	RGB	030-1679-A	OPERATOR	OWNERS GUIDE-HI-RES RGB MONITOR
APM	LASER2NT	030-3215-A	OPERATOR	OWNERS GUIDE-SET UP
APM	IIE	030-0356-C	OPERATOR	OWNERS MANUAL
APM	IMWTR2	03-2002-A	OPERATOR	OWNER'S MANUAL
APM	ALL	072-0213E	TECHNICAL	PERIPHERAL INTERFACE GUIDE
APM	A9M0303	030-0730-B	OPERATOR	REFERENCE PRINTER
APM	II	031-0357A	TECHNICAL	ROM LISTING-MONITOR
APM	A254000	CSC57	SCHEMATICS	SAMS COMPUTER FACTS
APM	II/II+	CC1	SCHEMATICS	SAMS COMPUTER FACTS
APM	MAC+	MP-1	SCHEMATICS	SCHEMATICS/BLOCK/TIMING DIAGRAMS
APM	MAC+	MP-2	SCHEMATICS	SCHEMATICS/BLOCK/TIMING DIAGRAMS
APM	MAC PORT.	072-0228 VOL.5	TECHNICAL	SERVICE MAINTENANCE
APM	MAC ALL	VOL4	TECHNICAL	SERVICE MAINTENANCE INSTRUCTIONS
APM	M0156	720163	TECHNICAL	SERVICE-DIAGNOSTIC-SCHEMATICS
APM	MAC2CI	030-5643-A	INSTALLATION	SETUP MANUAL-MAC2CI
APM	LISA/MAC XL	072-8085	TECHNICAL	TECHNICAL PROCEDURES
APM	LASERP	072-0163	TECHNICAL	VOL.3 APPLE PERSONAL LASER WRITER
APM	EXTERNAL DRIVES	REF	SEE APM	N/A
APM	HRMONO	REF	SEE APM	N/A
APM	II	ASM320	MAINTENANCE	N/A
APM	II	A2L0006	PROGRAM	N/A
APM	II	A2L0001A	TECHNICAL	N/A
APM	IIE	IIE	TECHNICAL	N/A
APM	MAC2	REF	SEE APM	N/A
APM	MAC2RGB	REF	SEE APM	N/A
APM	MAC360	REF	SEE APM	N/A
APM	MODULES	072-0184	MODULE ID	N/A
APPLE	A9M0320	N/A	Q-X	OWNER'S GUIDE
APPLIED ELEC.	1000	N/A	X	N/A
APPLIED RESEARCH	UH-2(A) SPC	N/A	J	2 MANUALS
APPLIED RESEARCH	UH-3(A)WC-245/30	N/A	J	2 MANUALS
APPLIED RESEARCH	UH-2(A) SP	N/A	J	N/A
APPLIED RESEARCH	UH-2(A) SPC-HFF	N/A	J	N/A
APPLIED SCIENCE	2430	N/A	K	N/A
APPLIED SCIENCE	120A	N/A	K	N/A
APPLIED TEST SYSTEMS	3710	N/A	H	INSTRUCTION
APR	AN/APR-4	N/A	K	3 MANUALS
ARGO SYSTEMS	AS210	N/A	F	N/A
ARGO SYSTEMS	AS210-01A	N/A	F	N/A
ARGO SYSTEMS	AS210-02	N/A	F	N/A
ARGO SYSTEMS	AS210-03	N/A	F	N/A
ARGO SYSTEMS	AS210-04	N/A	F	N/A
ARGO SYSTEMS	AS210-05	N/A	F	N/A
ARGO SYSTEMS	AS210A-PM	N/A	F	N/A
ARRH	AST PREMIUM 386	00177-001A	SERVICE	AST PREMIUM 386 MAINTENANCE MANUAL
ARRH	AST PREMIUM 386	001105-001A	OPERATOR	AST PREMIUM 386 USER'S MANUAL
ARRH	PREMIUM/286	000505-001A	SERVICE	PC SYSTEM
ARRH	SIXPAK+ SHORT	000490-001A	INSTALLATION/OPERATOR	TECHNICAL AND SETUP
ARKAY	150	N/A	N/A	N/A
ARMY/NAVY	AN/USM-117	N/A	K	N/A
ARNOLD MAG. CORP.	SKX-94	N/A	X	SPEC CONTROL DRAWING
ARTHUR D. LITTLE	SCPS-II	N/A	X	SCHEMATIC
ARTRONIX	5301-E	N/A	H	INSTRUCTION
ARTRONIX	5301-E	N/A	H	SERVICE
ASCOP	APA-2	N/A	J	N/A
ASHCROFT	DIGIQUARTZ	N/A	B	N/A
ASI	DTI	N/A	H	CALIBRATION
ASSOC. RESEARCH	VARIOUS MODELS	N/A	X	N/A
ASTRO DATA	120	N/A	E	INSTRUCTION MANUAL
ASTRO DATA	886	N/A	E	INSTRUCTION MANUAL
ASTRO DATA	887	N/A	E	INSTRUCTION MANUAL
ASTRO DYNAMICS	300	N/A	N/A	N/A



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ASTRODATA	887	N/A	X	SCHEMATICS
ASTRODATA	6190	N/A	X	N/A
ASTRODATA	6190A	N/A	X	N/A
ASTRODATA	C1-308/311	N/A	X	N/A
ASTRO-MED	DASH II	N/A	N/A	MICROSCOPE
ASTRO-MED	ASC-902HF	N/A	N/A	OPERATION AND MAINTENANCE
ASTROSYSTEMS	A1202S/R-1	N/A	E	SYNCHRO/RESOLVER
ASTROSYSTEMS	A1202-S/R-1	N/A	E	TECHNICAL MANUAL
ASTROSYSTEMS	CATALOG	N/A	E	VARIOUS TYPES OF INSTR.
ASW	6-PAC+	000216-001A	OPERATOR	MEM EXPANSION
ASW	COMBO+	PC-MEM	OPERATOR	MEM EXPANSION
ASW	MEGAPLUS II	001165-01 A0	OPERATOR	MEMORY EPANSION+IO CARD
ASW	ADVANTAGE	000179-001C	OPERATOR	MEMORY EXPANSION
ASW	6-PAK+	PC 6-PAK+	OPERATOR	OPERATORS MANUAL AND SWITCH SETUP
ASW	SUPERPAK	000300-001A	OPERATOR	RAM DRIVE SPOOLER DOC
ASW	SUPRPAC	000114-001B	OPERATOR	RAMDISK SPOOLER DOC.
ATEC	2400	N/A	F	3 MANUALS
ATEC	280-0003	N/A	F	NOT IN FILE
ATEC	2802	N/A	F	N/A
ATEC	2806	N/A	F	N/A
ATEC	6H86	N/A	F	N/A
ATKINS	SERIES 49	N/A	4	INSTRUCTIONS
ATME	AUTECH	521-506001	SCHEMATIC	REMOTE PROCESSOR
ATME	AUTECH	521-506006	SCHEMATIC	TOP DETECTOR
ATME	19	250-010019-001	OPERATOR	N/A
ATR-ELECTRONICS	12U-S4G	N/A	X	N/A
AUSTRON	8132	N/A	X	OPERATION & MAINTENANCE
AUTO COLLIMATOR	C-6800	N/A	N/A	N/A
AUTO TEMP CONT. CO.	NONE	N/A	M	N/A
AUTOMATIC SYS. LAB.	CATALOG	N/A	X	VARIOUS MODELS OF DISP. XDUCERS
AUTOMATION	EM-1300	N/A	K	N/A
AVATEX	1200HC	N/A	Q	N/A
AVCO	SM-030-1	N/A	A	N/A
AVIONIC INSTRUMENT INC.	1B800-1G/PL-2400	N/A	MAINT	INSTALLATION AND MAINTENANCE MANUAL
AYDIN	8026	N/A	K	N/A
AYDIN VECTOR	CATALOGS	N/A	X	VARIOUS MODELS OF FREQ CONVERTERS
AYI	9010	150-9010-002	TECHNICAL	OPERATION AND MAINTENANCE
B & F	15-200K	N/A	E	INSTRUCTION
B & F	1-700SG	N/A	E	INSTRUCTION
B & F	1-709	N/A	E	INSTRUCTION
B & F	RA2232-1	N/A	E	INSTRUCTION
B & F	RW2229	N/A	E	INSTRUCTION
B & F INSTRUMENTS	1-110T (SPECIAL)	N/A	W	N/A
B & F INSTRUMENTS	1-115 SI	N/A	W	N/A
B & F INSTRUMENTS	PC2423/RA2365-3	N/A	W	N/A
B & H	N/A	N/A	N/A	OSCILLOGRAPH PRINCIPLES
B & K	1018	N/A	X	1 SERVICE 4 INSTRUCTION 1 ASSEMBLY MANUAL
B & K	1025	N/A	X	1 SERVICE & 1 INSTRUCTION MANUAL
B & K	160	N/A	X	2 MANUALS
B & K	215	N/A	X	2 MANUALS
B & K	2426	N/A	X	2 MANUALS
B & K	2803	N/A	X	2 MANUALS
B & K	2811	N/A	X	2 MANUALS
B & K	3025	N/A	X	2 MANUALS
B & K	4131/4132	N/A	A	2 MANUALS
B & K	5Q576A	N/A	A	2 MANUALS
B & K	1027	N/A	X	3 MANUALS
B & K	2305	N/A	X	3 MANUALS
B & K	1019/1039	N/A	X	4 MANUALS W SCHEMATICS
B & K	2409/2416	N/A	X	5 MANUALS
B & K	830	N/A	N/A	CAPACITANCE METER
B & K	N575 N576	N/A	K	INSTRUCTION MANUAL
B & K	2713	N/A	N/A	MAINTENANCE MANUAL
B & K	2425	N/A	N/A	OPERATION AND SERVICE MANUAL
B & K	830	N/A	N/A	OPERATION MANUAL
B & K	161	N/A	X	N/A
B & K	226	N/A	X	N/A
B & K	228	N/A	X	N/A
B & K	282	N/A	X	N/A
B & K	530	N/A	X	N/A
B & K	1013	N/A	X	N/A
B & K	1014	N/A	X	N/A
B & K	1017	N/A	X	N/A
B & K	1022	N/A	X	N/A
B & K	1029	N/A	X	N/A
B & K	1039	N/A	X	N/A
B & K	1076	N/A	X	N/A
B & K	1402	N/A	X	N/A
B & K	1612	N/A	J	N/A
B & K	1621	N/A	J	N/A
B & K	1801	N/A	J	N/A
B & K	2010	N/A	X	N/A
B & K	2032	N/A	X	N/A
B & K	2105	N/A	X	N/A
B & K	2107	N/A	X	N/A
B & K	2417	N/A	X	N/A
B & K	2604	N/A	X	N/A
B & K	2607	N/A	X	N/A
B & K	2619	N/A	A	N/A
B & K	2631	N/A	A	N/A
B & K	2706	N/A	X	N/A
B & K	2804	N/A	X	N/A
B & K	3347	N/A	X	N/A
B & K	4142	N/A	A	N/A
B & K	4220	N/A	A	N/A
B & K	4290	N/A	X	N/A
B & K	2706/2707	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
B & K	4135/36	N/A	A	N/A
B & K	N570	N/A	K	N/A
B & K INSTRUMENTS	2808	N/A	U	INSTRUCTION
B & K INSTRUMENTS	4220	N/A	N/A	M00872/PISTON-PHONE
B & K INSTRUMENTS	4220	N/A	N/A	M00873/PISTON-PHONE
B & K INSTRUMENTS	4294	N/A	A	SHAKER
B & K INSTRUMENTS	CATALOG	N/A	A	SPEC SHEET
B & K INSTRUMENTS	7003/4	N/A	U	N/A
B & K INSTRUMENTS	7005/6	N/A	U	N/A
B & K PRECISION	282	N/A	E	INSTRUCTION
B & K PRECISION	2845	N/A	E	INSTRUCTION MANUAL
B & K PRECISION	1710 AND 1730	N/A	N/A	OPERATOR'S MANUAL
B&K	2034	N/A	SERV	SERVICE MANUAL
B&K 2707	2707	N/A	SERVIC	SERVICE
B&K DYNASCAN	E-310B	N/A	N/A	INSTRUCTION WITH SCHEMATIC
B&K PRECISION	1611	N/A	INSTRCTION	INSTRUCTION
B&K PRECISION	1660	N/A	N/A	INSTRUCTION MANUAL
B&K PRECISION	2971	N/A	OPERATORS	OPERATORS
B&K PRECISION	1611	N/A	REPAIR	REPAIR
B&K PRECISION	2971	N/A	N/A	SERVICE
B&K PRECISION	3011B	N/A	SERVICE	SERVICE
B.L. PACHER	1011	N/A	X	N/A
BABCOCK	AN/ARW-80	N/A	K	N/A
BABCOCK AEROSPACE	BCC-30 SERIES	N/A	K	N/A
BABCOCK AEROSPACE	BSG-8A	N/A	K	N/A
BABCOCK AEROSPACE	M01 1021	N/A	K	N/A
BACHARACH	FYRITE II	N/A	C	OPERATION/MAINTENANCE
BACKARACH	SENTOX-2	N/A	N	N/A
BACKARACH	TVL	N/A	N	N/A
BAFCO	9164	N/A	X	N/A
BAFCO	910B	N/A	K	N/A
BAFCO	916H	N/A	K	N/A
BAH	1-172-XX	992346-0004	SERVICE	GALVO&AMP
BAH	BELH 549	992346-0004	MAINTENANCE	OPERATION
BAH	44600001	994512-0001	OPERATOR	TRANSDUCER
BAIRD-ATOMIC	CS100/CS900	N/A	I	2 MANUALS
BAIRD-ATOMIC	MW-1	N/A	K	2 MANUALS
BAIRD-ATOMIC	MWT-1	N/A	K	2 MANUALS
BAIRD-ATOMIC	CS300	N/A	I	3 MANUALS
BAIRD-ATOMIC	420	N/A	I	N/A
BAIRD-ATOMIC	441A	N/A	F	N/A
BAIRD-ATOMIC	CS200	N/A	K	N/A
BAIRD-ATOMIC	CS400	N/A	N/A	N/A
BAIRD-ATOMIC	CS600L	N/A	N/A	N/A
BAIRD-ATOMIC	JM-1	N/A	K	N/A
BALDWIN	SR4	N/A	K	N/A
BALL	TCR-19/25	N/A	K	2 MANUALS
BALLANTINE	314	N/A	N/A	2 MANUALS
BALLANTINE	350	N/A	N/A	2 MANUALS
BALLANTINE	300G	N/A	N/A	2 MANUALS
BALLANTINE	710A	N/A	N/A	2 MANUALS
BALLANTINE	220	N/A	E	3 MANUALS
BALLANTINE	300	N/A	N/A	3 MANUALS
BALLANTINE	6125A	N/A	N/A	3 MANUALS
BALLANTINE	220	N/A	N/A	INSTRUCTION MANUAL
BALLANTINE	320	N/A	N/A	INSTRUCTION MANUAL
BALLANTINE	355	N/A	E	INSTRUCTION MANUAL
BALLANTINE	355	N/A	N/A	INSTRUCTION MANUAL
BALLANTINE	6125B/C	N/A	N/A	OPERATOR/SERVICE
BALLANTINE	6125A	N/A	OP/SERVICE	SCOPE CALIBRATOR
BALLANTINE	353	N/A	E	SPECS ONLY
BALLANTINE	2421	N/A	N/A	SPECS ONLY
BALLANTINE	300H	N/A	N/A	VOLT METER
BALLANTINE	320A	N/A	N/A	VOLT METER
BALLANTINE	316	N/A	E	N/A
BALLANTINE	320	N/A	X	N/A
BALLANTINE	355	N/A	Q	N/A
BALLANTINE	300A	N/A	N/A	N/A
BALLANTINE	300H	N/A	X	N/A
BALTEAU	18384	N/A	E	N/A
BARBER COLEMAN	522/523/524	N/A	E	INSTRUCTION
BARBER COLEMAN	350	N/A	G	INSTRUCTION MANUAL
BARFIELD	2312-G	N/A	G	INSTRUCTION MANUAL
BARNES	12-550	N/A	G	CALIBRATION
BARNES	2483985	N/A	G	INSTRUCTION
BARNES	11-131	N/A	G	INSTRUCTION
BARNES	11-201T	N/A	G	INSTRUCTION
BARNES	14-312	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	IT-7	N/A	G	INSTRUCTION
BARNES	PRT5	N/A	G	INSTRUCTION
BARNES	PRT5	N/A	G	INSTRUCTION
BARNES	R-4D1	N/A	G	INSTRUCTION
BARNES	RS-3A	N/A	B	INSTRUCTION
BARNES	IT7	N/A	G	PARTS LIST
BARNES	IT7	N/A	G	PARTS LIST
BARNES	IT7	N/A	G	PARTS LIST
BARNES	12-550	N/A	G	SCHEMATIC
BARNES	11-101	N/A	G	SERVICE
BARNES	12-550	N/A	G	SERVICE
BARNES	PRT5	N/A	G	SERVICE
BARNET	3540	N/A	B	N/A
BARTON	227	N/A	B	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
BASCOM-TURNER	4000/3000	N/A	N	N/A
BASELINE	TCD-1010	N/A	X	N/A
BASIC MEASURING INS.	GS-24	N/A	N/A	USER'S MANUAL
BAUSCH & LOMB	SPECTRONIC 20	N/A	E	SERVICE
BAUSCH & LOMB	BFB-1	N/A	G	N/A
BAY	D-25	N/A	E	INSTRUCTION MANUAL
BAY	D-25A-SV	N/A	N/A	INSTRUCTION MANUAL
BAY	3102	N/A	E	MODIFICATION INFORMATION
BAY	3102	N/A	E	OPERATION AND MAINTENANCE
BAY	3102	N/A	E	OPERATION AND MAINTENANCE
BAY	G-160	N/A	E	OPERATION AND MAINTENANCE
BAY	VC 351C	N/A	N/A	OPERATION AND MAINTENANCE
BAY	G-160	N/A	E	N/A
BCS	PRODUCT CATALOGS	N/A	B	N/A
BECKMAN	7570	N/A	C	2 MANUALS
BECKMAN	F3	N/A	N/A	2 MANUALS
BECKMAN	905	N/A	C	3 MANUALS
BECKMAN	15A	N/A	C	4 MANUALS
BECKMAN	8370	N/A	N/A	5 MANUALS
BECKMAN	76	N/A	F	INSTRUCTION
BECKMAN	180	N/A	N/A	INSTRUCTION
BECKMAN	930	N/A	E	INSTRUCTION
BECKMAN	RS5-3	N/A	C	INSTRUCTION
BECKMAN	SD-125 I	N/A	E	INSTRUCTION
BECKMAN	ZEROMATIC II	N/A	C	INSTRUCTION
BECKMAN	ZEROMATIC II	N/A	N/A	INSTRUCTION
BECKMAN	4011	N/A	E	INSTRUCTION MANUAL
BECKMAN	4011	N/A	E	INSTRUCTION MANUAL
BECKMAN	AMPLEXER	N/A	E	MAINTENANCE
BECKMAN	UC10	N/A	C	OPERATORS
BECKMAN	300	N/A	E	OPERATOR'S MANUAL
BECKMAN	310	N/A	E	OPERATOR'S MANUAL
BECKMAN	3000	N/A	E	OPERATOR'S MANUAL
BECKMAN	3000	N/A	E	OPERATOR'S MANUAL
BECKMAN	4410	N/A	N/A	OPERATOR'S MANUAL
BECKMAN	SERIES 300	N/A	E	SERVICE W/SCHEMATICS
BECKMAN	SERIES 3000	N/A	E	SERVICE W/SCHEMATICS
BECKMAN	SERIES HD	N/A	N/A	SERVICE W/SCHEMATICS
BECKMAN	SM800	N/A	N/A	SPECS ONLY
BECKMAN	DM25L	N/A	N	USER'S MANUAL
BECKMAN	HD-110	N/A	N/A	USER'S MANUAL
BECKMAN	602	N/A	F	N/A
BECKMAN	2550	N/A	E	N/A
BECKMAN	7416	N/A	F	N/A
BECKMAN	8175	N/A	F	N/A
BECKMAN	8150 8160	N/A	F	N/A
BECKMAN	8350 8360	N/A	F	N/A
BECKMAN	H2	N/A	E	N/A
BECKMAN	R05	N/A	C	N/A
BECKMAN/BERKLEY	1452	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	1453	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	5230	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	5910	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	5920	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	7150/7160	N/A	N/A	2 MANUALS
BECKMAN/BERKLEY	5500	N/A	N/A	3 MANUALS
BECKMAN/BERKLEY	7350/7360	N/A	N/A	4 MANUALS
BECKMAN/BERKLEY	CATALOG		OPERATOR	N/A
BEHL	KBT3-900-A155	KBT 3-900-A155	SCHEMATICS	SER NO.1573 AIRLAB/SCHEM
BEHL	KBT3-900-A155	KBT3-900-A155	X	TEMPORARY OPERATING INSTRUCTIONS
BEHLMAN	3-10-A	N/A	X	400HZ POWER SUPPLY
BEHLMAN-INVAR	503-D-3	N/A	X	PARTS LIST & SOME SCHEMATICS - TEMPORARY MANUAL
BEHLMAN-INVAR	123A SERIES	N/A	X	N/A
BEHLMAN-INVAR	161-C-5-284	N/A	X	N/A
BEHLMAN-INVAR	TPA 36/18	N/A	X	N/A
BEHLMAN-INVAR	TPR 2.5/5/10	N/A	TECHNICAL	N/A
BEI	3000	0017-0021-00-B	E	SCHEMATICS
BELDEN	CATALOG	N/A	N/A	WIRE & COMPUTER CABLES
BELFORT	5-PH-5A	N/A	B	INSTRUCTION
BELFORT	120 & 122	N/A	H	N/A
BELFORT INSTR.	5-800A	N/A	SERV/OPER	N/A
BELFORT INSTRUMENT CO.	5-594	N/A	N/A	HYGROTHERMOGRAPH
BELL & HOWELL	1-172A-XX	N/A	U	3 MANUALS
BELL & HOWELL	CATALOG	N/A	E	ACCELEROMETERS
BELL & HOWELL	PR-4	N/A	O	INSTRUCTION
BELL & HOWELL	8-114	N/A	E	OPERATION AND MAINTENANCE
BELL & HOWELL	8-114	N/A	E	OPERATION AND MAINTENANCE
BELL & HOWELL	8-114	N/A	N/A	OPERATION AND MAINTENANCE
BELL & HOWELL	SR900	N/A	U	OPERATOR INSTRUCTIONS
BELL & HOWELL	185	N/A	N/A	SCHEMATICS ONLY
BELL & HOWELL	MARS-1000	N/A	E	SERIES
BELL & HOWELL	4-311	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-312	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-313	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-316	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-317	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-325	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-326	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-327	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-328	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-329	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-350-0001	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-350-0002	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-351	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-353	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-354	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-361	N/A	B	SPECIFICATION SHEET

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
BELL & HOWELL	4-390	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-402	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-450	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-451-0100	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-460	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	4-461	N/A	B	SPECIFICATION SHEET
BELL & HOWELL	CATALOG	N/A	N/A	TRANSDUCERS & MEASUREMENTS
BELL & HOWELL	797	N/A	E	N/A
BELL & HOWELL	1-172-XX	N/A	X	N/A
BELL & HOWELL	12-677A	N/A	U	N/A
BELL & HOWELL	173-273	N/A	X	N/A
BELL & HOWELL	2585-2590-2592	N/A	X	N/A
BELL & HOWELL	302-8302	N/A	B	N/A
BELL & HOWELL	384-385-398-399	N/A	B	N/A
BELL & HOWELL	4-461	N/A	B	N/A
BELL & HOWELL	ABR-620	N/A	R	N/A
BELL & HOWELL	FSC GROUP 67	N/A	U	N/A
BELL & HOWELL	TD-2903-4B	N/A	U	N/A
BELL & HOWELL	TD-500	N/A	U	N/A
BELL & HOWELL	VR3300	N/A	U	N/A
BELL & HOWELL	VR3360	N/A	U	N/A
BELL & HOWELL	VR3400	N/A	U	N/A
BELL & HOWELL	VR3600	N/A	U	N/A
BELL & HOWELL	VR3700	N/A	U	N/A
BELL & HOWELL	VR3700B	N/A	R	N/A
BELL AEROSPACE	CATALOG	N/A	R	ACCELEROMETERS
BENDIX	403000	N/A	H	ACCEPTANCE TEST PROCEDURE
BENDIX	OPTICS	N/A	B	GENERAL
BENDIX	190347-1	N/A	R	GYRO
BENDIX	566-2 & 3	N/A	B	INSTRUCTION
BENDIX	TYPE GTC-004	N/A	B	INSTRUCTION MANUAL
BENDIX	790	N/A	L	N/A
BENDIX	8861	N/A	E	N/A
BENDIX	TYPE PDV6A & AS	N/A	X	N/A
BENDIX-PACIFIC	TDA-300	N/A	X	2 MANUALS
BENDIX-PACIFIC	TDA-300	N/A	X	PROPOSED MANUAL/CATALOG
BENDIX-PACIFIC	SERIES 330	N/A	X	N/A
BENDIX-PACIFIC	TDA310 & 311	N/A	K	N/A
BENRUS	RA850	N/A	D	2 MANUALS
BENTLY NEVADA	TK-3	N/A	OPERATOR	INSTRUCTIONS
BENTLY NEVADA	7200	N/A	D	SERIES
BENX	SIFT	NASATM 87575	OPERATOR	SOFTWARE LISTINGS
BENX	SIFT	NASATM 86289	N/A	USER GUIDE
BERGEN EXPO	LP-1	N/A	X	N/A
BERKLEY NUCLEONICS	7010-1	N/A	X	2 MANUALS
BERKLEY NUCLEONICS	G100	N/A	X	INSTRUCTIONS MAINTENANCE/SCHEMATICS
BERKLEY NUCLEONICS	8010	N/A	X	N/A
BERKLEY NUCLEONICS	8015A/8016A	N/A	X	N/A
BERKLEY NUCLEONICS	AP-1 & AP-2	N/A	X	N/A
BERKLEY NUCLEONICS	AP-3	N/A	X	N/A
BERKLEY NUCLEONICS	BH-1	N/A	N/A	N/A
BERKLEY NUCLEONICS	GL-3	N/A	X	N/A
BERKLEY NUCLEONICS	LG-1	N/A	F	N/A
BERKLEY/BECKMAN	5510	N/A	N/A	3 MANUALS ONE IN POOR CONDITION
BERKLEY/BECKMAN	700	N/A	X	N/A
BERKLEY/BECKMAN	5500	N/A	F	N/A
BERTAN	214/215	N/A	N/A	N/A
BERTAN ASS.	225 & 226	N/A	E	OPERATION & MAINTENANCE
BERTON	205A/210	N/A	N/A	INSTRUCTION
BEST	SOOVA-3.1KVA	N/A	N/A	USER
BEST POWER TECH.	ME/QME SERIES	N/A	X	OPERATING/SERVICE
BEST POWER TECH.	MD/MK SERIES	N/A	N/A	OWNER'S MANUAL
BEST POWER TECH.	MD SERIES	N/A	N/A	TECHNICAL INFORMATION
BETA ELECTRONICS CO.	206	N/A	X	2 MANUALS
BETA ELECTRONICS CO.	102	N/A	X	OPERATOR INSTRUCTIONS
BETA ELECTRONICS CO.	201 THRU 205	N/A	N/A	OPERATOR INSTRUCTIONS
BETA ELECTRONICS CO.	222	N/A	OPER/SERV (COPY)	N/A
BIDDLE	247000	N/A	E	DLRO DIGITAL LOW RESISTANCE OHMMETER
BIDDLE	27-803A	N/A	E	INSTRUCTION
BIDDLE	71-613	N/A	E	INSTRUCTION
BIDDLE	72-4302J	N/A	E	INSTRUCTION
BIDDLE	MAJOR MEGGER	N/A	E	INSTRUCTION
BIDDLE	MEGADEK	N/A	E	INSTRUCTION
BIDDLE	MEGADEK	N/A	E	INSTRUCTION
BIDDLE	MEGERS	N/A	E	INSTRUCTION
BIDDLE	PORT. WHEATS. BR	N/A	E	INSTRUCTION
BIDDLE	PREC. VOLT. DIV.	N/A	INSTRUCTION (COPY)	INSTRUCTION
BIO MARINE	OA-222	N/A	N	N/A
BIO MARINE	OA-225	N/A	N	N/A
BIO MARINE	OM-300	N/A	N	N/A
BIO MARINE	OM-322	N/A	N	N/A
BIO MARINE	OM-325	N/A	SERVICE	N/A
BIOM	110-D	0110-0030	SERVICE	DATA RECORDER
BIOM	810-D	0811-0100	SERVICE	DIGITAL LOGIC RECORDER/OPERATOR
BIOM	810-D	0811-0100	SERVICE	DIGITAL RECORDER
BIOM	8100	0810-0144P	SERVICE	PRELIMINARY
BIOM	8T	8110045	X	TRIGGER SELECTOR
BIOM	8-T	0811-0045	SERVICE	TRIGGER SELECTOR/OPERATOR
BIOMATION	1015	N/A	X	2 MANUALS
BIOMATION	8100	N/A	X	2 MANUALS
BIOMATION	110-D	N/A	X	2 MANUALS
BIOMATION	810D	N/A	J	2 MANUALS
BIOMATION	802	N/A	X	3 MANUALS
BIOMATION	1010	N/A	X	N/A
BIOMATION	610B	N/A	X	N/A
BIRD	6100	N/A	J	5 MANUALS
BIRD	43	N/A	J	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
BIRD	4314	N/A	J	N/A
BIRD	6254	N/A	J	N/A
BIRD	8000	N/A	X	N/A
BIRTCHEER	10-A	N/A	X	2 MANUALS
BIRTCHEER	10AC-1	N/A	X	2 MANUALS
BIRTCHEER	70	N/A	N/A	3 MANUALS
BK PRECISION	1660	N/A	SERVICE	SERVICE MANUAL
BKJ	2319	2319	X	N/A
BLACK BOX	1200H	N/A	X	N/A
BLACK BOX	RI 500 505 510	N/A	E	N/A
BLH	MM	N/A	E	3 MANUALS
BLH	626	N/A	X	INSTRUCTION
BLH	SR4	N/A	K	INSTRUCTION BOOK
BLH	8000	N/A	E	OPERATING AND SERVICE
BLH	8000	N/A	E	OPERATING AND SERVICE
BLH	8000	N/A	E	OPERATING AND SERVICE
BLH	8000	N/A	E	OPERATING AND SERVICE
BLH	8000	N/A	E	OPERATING AND SERVICE
BLH	8100	N/A	E	OPERATING AND SERVICE
BLH	8100	N/A	E	OPERATING AND SERVICE
BLH	8100	N/A	X	OPERATING AND SERVICE
BLH	1200	N/A	E	OPERATION AND SERVICE
BLH	1225	N/A	E	OPERATION AND SERVICE
BLH	1225	N/A	X	OPERATION AND SERVICE
BLH	8100	N/A	K	OPERATION AND SERVICE
BLH	SR4	N/A	E	OPERATION AND SERVICE
BLH	4310	N/A	E	OPERATORS
BLH	4315	N/A	X	OPERATORS
BLH	207080-3	N/A	X	WIRING DIAGRAM
BLH	20	N/A	X	N/A
BLH	230	N/A	E	N/A
BLH	620	N/A	X	N/A
BLH	625	N/A	E	N/A
BLH	626	N/A	X	N/A
BLH	8000	N/A	E	N/A
BLH	8100	N/A	E	N/A
BLH	BSA-250B	N/A	X	N/A
BLH	SR4-65	N/A	K	N/A
BLH	SR4-K	N/A	OPER/SERV	N/A
BLH ELECTRONICS	8200	N/A	OPER/SERV	CALIBRATION INDICATOR TM 8200-1-1 NOVEMBER 1970
BLH ELECTRONICS	8200B	N/A	H	CALIBRATION INDICATOR TM 8200B-1 JUNE 1980
BLUE M	MW-110A	N/A	N/A	INSTRUCTION
BNC	7020	N/A	J	INSTRUCTION MANUAL
BOGEN	HTA125A/HTA250A	N/A	X	OPERATING & SERVICE MANUAL
BOGEN	CTS SERIES	N/A	N/A	OPERATORS
BOGEN	TPU SERIES	N/A	OPERATING	OPERATORS
BOGEN	C10	N/A	X	N/A
BOGEN	CHS-35A/60A/100A	N/A	X	N/A
BOGEN	CSM	N/A	OPERATORS	N/A
BOGEN	J050	N/A	X	N/A
BOGEN	M0200A	N/A	X	N/A
BOGEN	M330	N/A	X	N/A
BOGEN	MT60C MT125C	N/A	X	N/A
BOGEN	MU15	N/A	X	N/A
BOGEN	MX60	N/A	X	N/A
BOGEN	MXM-A	N/A	K	N/A
BOGEN	SP-8 SPT-15 -30	N/A	OPERATORS	N/A
BOOKS INSTRUMENT DIV.	2001	N/A	X	FLOW INDICATOR
BOONSHAFT & FUCHS	1-700SG 15-200K	N/A	X	N/A
BOONSHAFT & FUCHS	DA400	N/A	X	N/A
BOONTON	103A & B	N/A	X	2 MANUALS
BOONTON	56A	N/A	X	INSTRUCTION
BOONTON	56A	N/A	X	INSTRUCTION
BOONTON	75A	N/A	J	INSTRUCTION
BOONTON	56A	N/A	E	SERIAL # 567 AND ABOVE
BOONTON	910	N/A	E	N/A
BOONTON	2023	N/A	J	N/A
BOONTON	100A 160A 170A	N/A	J	N/A
BOONTON	102E & F	N/A	J	N/A
BOONTON	190A	N/A	J	N/A
BOONTON	210A	N/A	J	N/A
BOONTON	230A	N/A	J	N/A
BOONTON	232A	N/A	J	N/A
BOONTON	250A	N/A	J	N/A
BOONTON	280A	N/A	J	N/A
BOONTON	41A & 41AR	N/A	E	N/A
BOONTON	56A	N/A	X	N/A
BOONTON	71A & 71AR	N/A	X	N/A
BOONTON	71A/AR	N/A	E	N/A
BOONTON	82AD	N/A	J	N/A
BOONTON RADIO	160-A	N/A	J	OPERATING INSTRUCTION
BORG-WARNER	82	N/A	X	N/A
BORG-WARNER	G-201	N/A	X	N/A
BRADY MARKER	XC PLUS	N/A	X	OPERATION AND MAINT.
BRANSON	3460A	N/A	D	N/A
BRANSON ULTRASONIC	104 104A	N/A	X	N/A
BRANSON ULTRASONIC	50C	N/A	X	N/A
BRISTOL	P12514	N/A	H	N/A
BRISTOL	PG506	N/A	X	N/A
BRISTOL	PG570-A	N/A	X	N/A
BRISTOL	PH 560-4	N/A	INSTRUCTION	N/A
BRISTOL BABCOCK	56912-70A REV 04/91	N/A	D	TEMPERATURE HUMIDITY RECORDER
BRITISH AIRCRAFT	EL/10	N/A	N/A	ELECTROLEVEL
BROOKFIELD ENG.	HAF HAT HBF HBT	N/A	L	N/A
BROOKS	1050	N/A	L	N/A
BROOKS	3621 3632	N/A	L	N/A
BROOKS	MPT	N/A	CATALOG	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
BROOKS INSTR. DIV. EMERSON ELECTRIC CO.	N/A	N/A	OPERATING	FLOWMETERS/CONTROLLERS/VALVES/TABLES
BROOKS INSTR. DIV. EMERSON ELECTRIC CO.	5810	N/A	OPERATOR	THERMAL MASS FLOWMETER/CONTROLLER
BROT	HR-35	594561080	PARTS LIST	DAISY WHEEL PRINTER MANUAL
BROT	HR-1	HR-1-A83/1	SERVICE	SERVICE SCHEMATICS IPB
BROT	HL-8	594310031	TECHNICAL	USERS MANUAL HL-8 LASER PRINTER
BROT	HR-35	RIV.A84/02	X	N/A
BROWER	131	N/A	X	3 MANUALS
BROWER	261	N/A	X	4 MANUALS
BROWER	132	N/A	X	5 MANUALS
BROWER	129	N/A	X	N/A
BROWER	312C & 322	N/A	X	N/A
BROWER	MS/236	N/A	N/A	N/A
BROWN	6KW & 12KW	N/A	E	N/A
BROWN ELEC.MEAS.CORP	315/320/325	N/A	E	OPERATING AND SERVICE
BROWN ELEC.MEAS.CORP	315/320/325	N/A	K	OPERATING AND SERVICE
BROWNING LABS	0L-15	N/A	K	N/A
BROWNING LABS	RH-10	N/A	SCHEMATICS	N/A
BRU	CS1	09-0024-00	N/A	COMMUNICATION SERVER
BRU	CS1	09-0043-00	USER GUIDE	ETHER NET
BRU	CS1	09-0047-00	OPERATOR	THEORY AND SCHEMATICS
BRUEL & KAJAER	1623	N/A	N/A	SERVICE
BRUEL & KAJAER	2131	N/A	X	SERVICE MANUAL
BRUSH DEVELOPMENT	13-4485-00	N/A	K	N/A
BRUSH DEVELOPMENT	13-6684-00-3711	N/A	D	N/A
BRUSH DEVELOPMENT	BL-103	N/A	X	N/A
BRUSH DEVELOPMENT	BL211-212	N/A	W	N/A
BRUSH DEVELOPMENT	BL310	N/A	K	N/A
BRUSH DEVELOPMENT	BL-320	N/A	X	N/A
BRUSH DEVELOPMENT	BL-902/A	N/A	K	N/A
BRUSH DEVELOPMENT	BL-905	N/A	K	N/A
BRUSH DEVELOPMENT	BL-913	N/A	X	N/A
BRUSH DEVELOPMENT	BL-932	N/A	K	N/A
BRUSH DEVELOPMENT	MARK 250	N/A	K	N/A
BRUSH DEVELOPMENT	OA-1	N/A	D	N/A
BRUSH DEVELOPMENT	RECORDING SYS.	N/A	OPERATOR	N/A
BSN	BARR/HASP	0-938835-03-3	SERVICE	OPERATORS MANUAL
BUB	MPV911	OM911	X	N/A
BUDD	440	N/A	X	N/A
BUEHLER	11-1180	N/A	N/A	OPERATIONAL
BURKE & JAMES	8X10-11X14-17X17	N/A	O	N/A
BURLEIGH	P2-70	N/A	N/A	INSTRUCTION
BURLEIGH	PZ-62M	N/A	X	INSTRUCTION
BURLEIGH	?	N/A	E	N/A
BURLEIGH	RC-45 CFT	N/A	X	N/A
BURR-BROWN	9509	N/A	E	2 MANUALS
BURR-BROWN	506/16A	N/A	X	4 MANUALS
BURR-BROWN	3620	N/A	E	INSTRUCTION
BURR-BROWN	9077	N/A	X	INSTRUCTION
BURR-BROWN	9860	N/A	X	INSTRUCTION
BURR-BROWN	1507/15	N/A	X	INSTRUCTION
BURR-BROWN	3088/16	N/A	E	INSTRUCTION
BURR-BROWN	3097/15	N/A	E	INSTRUCTION
BURR-BROWN	3288/16	N/A	E	INSTRUCTION
BURR-BROWN	3640-1	N/A	X	INSTRUCTION
BURR-BROWN	506-19/16A	N/A	X	INSTRUCTION
BURR-BROWN	MODULAR P.S	N/A	Q	PRODUCT GUIDE
BURR-BROWN	100	N/A	X	N/A
BURR-BROWN	110	N/A	X	N/A
BURR-BROWN	300	N/A	E	N/A
BURR-BROWN	500	N/A	E	N/A
BURR-BROWN	527	N/A	X	N/A
BURR-BROWN	1507/15	N/A	E	N/A
BURR-BROWN	3640-1	N/A	X	N/A
BURR-BROWN	547/16A	N/A	E	N/A
BYTEK COMPUTER SYS	S5/S-15/S10/S15	N/A	K	INSTRUCTIONS MANUAL
C.E. CORP.	24-040	N/A	OPERATOR	N/A
CAE	203	203	N/A	VOL 1
CAHM	4100	N/A	SCHEMATIC	N/A
CAL	1012	20892-502-100	SCHEMATIC	101X REGULATOR
CAL	1044	13429-0014	SERVICE	1040GT SERIES USER'S GUIDE
CAL	1023/1025/1026	13211-0016	OPERATOR	ARTISAN PLUS PEN PLOTTER MAINT MANUAL
CAL	140/142	10150-901-003-2	SERVICE	DEC RX01/RX02
CAL	565	1234-753	SERVICE	DIAG SYSTEM-A-TESTS
CAL	1012	20962-502-100	MAINTENANCE	DRUM PLOTTER
CAL	1044	10286-901-002	SERVICE	DRUM PLOTTER MAINT. 1042 1043 1044
CAL	1023	11261-0019	SERVICE	PIN PLOTTER
CAL	565	10018-901-0031	OPERATOR	PLOTTER
CAL	116	10006-901-0021	OPERATOR	PLOTTER CONTROLLER
CAL	116	116	TECHNICAL	PLOTTER CONTROLLER
CAL	CALCOMP PLOTTER	1006A	X	PROGRAMMING
CAL	1023	11261-0019	SERVICE	SERVICE HANDBOOK MAINTENANCE INSTRUCTION
CAL	68444	M0014-960	PROGRAM	SERVICE-TECHNICAL-DIAGNOSTIC-IPB
CAL	6613	M0061-450	SERVICE	TECHNICAL-SERVICE-DIAGNOSTIC-IPB
CAL	52436	M0014-990	SERVICE	TECHNICAL-SERVICE-IPB
CAL	565	10018-901-0032	OPERATOR	N/A
CAL	565	10018-901-0030	PROGRAM	N/A
CAL	565	565	SERVICE	N/A
CAL	5912/5612	M0061-240	OPERATOR	N/A
CAL	5912/5913	M0061-230	SERVICE	N/A
CAL INST.	101T	N/A	K	N/A
CAL INST.	800T-20/20	N/A	Q	N/A
CAL POWER	M6-365-1	N/A	X	2 MANUALS
CAL POWER	TVR040-30/30A	N/A	Q	SCHEMATIC INCLUDED
CAL POWER	1212	N/A	X	N/A
CAL POWER	TVCR040-05	N/A	X	N/A
CALCOMP	1073 75 77	N/A	N/A	N/A
CALENCO INDUST.	SERIES 1200	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CALIB. STANDARDS	N/A	N/A	X	NO MODEL #
CALIB. STANDARDS	3300A	N/A	X	INSTRUCTION
CALIB. STANDARDS	DC-100B	N/A	F	OPERATION
CALIB. STANDARDS	AC-100A	N/A	E	SCHEMATIC INC. IN FOLDER
CALIB. STANDARDS	123	N/A	X	N/A
CALIB. STANDARDS	134 & 134B	N/A	E	N/A
CALIDYNE CO.	1	N/A	F	2 MANUALS
CALIDYNE CO.	5	N/A	N/A	2 MANUALS
CALIDYNE CO.	23	N/A	A	N/A
CALIFORNIA INST.	251T	N/A	N/A	MAINTENANCE MANUAL
CALIFORNIA INST.	800T	N/A	K	MAINTENANCE MANUAL
CALIFORNIA INSTR.	SERIES 3300	N/A	N/A	3 MANUALS
CALIFORNIA INSTR.	820T	N/A	K	CRYSTAL OSCILLATOR
CALIFORNIA INSTR.	7000	N/A	X	N/A
CALIFORNIA INSTR.	3101B & 3104B	N/A	K	N/A
CALUMET	N/A	N/A	H	N/A
CAMBION	CATALOG	N/A	L	THERMOELECTRICS
CAMBRIDGE	990	N/A	L	2 MANUALS
CAMBRIDGE	349 S/N	N/A	L	2 MANUALS
CAMBRIDGE	370 S/N	N/A	L	3 MANUALS
CAMBRIDGE	27	N/A	X	N/A
CAMBRIDGE	992	N/A	X	N/A
CAMBRIDGE	137-C2	N/A	L	N/A
CAMBRIDGE	312A	N/A	L	N/A
CAMBRIDGE	CS300	N/A	N/A	N/A
CAMBRIDGE INST.	STERO 1&2	N/A	OPER (COPY)	PARTS LIST
CAMPBELL SCIENTIFIC INC.	21X	N/A	G	MICROLOGGER REV 8/90
CANBERRA	SERIES 1400	N/A	X	2 MANUALS
CANBERRA	800	N/A	X	N/A
CANBERRA	1400	N/A	X	N/A
CANBERRA	1400	N/A	X	N/A
CANBERRA	1410	N/A	K	N/A
CANBERRA	1435	N/A	K	N/A
CANBERRA	1463	N/A	X	N/A
CANBERRA	1417B	N/A	K	N/A
CANON	70	N/A	N/A	2 MANUALS
CANON	M1	N/A	X	INSTRUCTION
CANON	520-T	N/A	Q	SCHEMATIC
CANON	70	N/A	H	N/A
CANON	V10X15R	N/A	X	N/A
CARTER J.C. CO.	6508	N/A	X	N/A
CARTER J.C. CO.	6649	N/A	X	N/A
CARVER	M-4.0T	N/A	N/A	SERVICE MANUAL
CARVER	TFM-4.0	N/A	N/A	SERVICE MANUAL
CARVER	TFM-42	N/A	N/A	SERVICE MANUAL
CARVER	TFM-45	N/A	X	SERVICE MANUAL
CARY	31	N/A	E	INSTRUCTION
CARY	401	N/A	SCHEMATICS	INSTRUCTION
CARY	31	N/A	E	N/A
CBM	2001	2001	N/A	PET
CBM	2001	2001	OPERATOR	TERMINAL
C-COR. ELEC.	3984	N/A	N/A	2 MANUALS
CDC	751-10	62962300	TECHNICAL	1 OF 2
CDC	751-10	62962300	TECHNICAL	2 OF 2
CDC	9409	77653408	OPERATOR	5" FLOPPY DISK MAINTENANC
CDC	PA8XX	83325700 H	IPB	8 INCH MODULE DISK DRIVE
CDC	PA8XX	83325700	TECHNICAL	8 INCH MODULE DISK DRIVE
CDC	BR8XXX	77834769	DIAGNOSTIC	8" FLOPPY DISK MAINTENANCE
CDC	PA3A1/PA3A2	83324480	TECHNICAL	80 MEGABYTE DISK DRIVE
CDC	PA8XX	83325700	IPB	8-INCH DRIVE EMD/SABRE
CDC	PA8XX	83325710	TECHNICAL	8-INCH DRIVE EMD/SABRE
CDC	BR5A6	83313500G	SERVICE	AIRLAB
CDC	BR5A6	83313600L	SERVICE	AIRLAB
CDC	BR5A6	83313400M	TECHNICAL	AIRLAB
CDC	751-10	62962700	TECHNICAL	ANABACK OPTION
CDC	751-10	62961600	OPERATOR	BULK PWR SUPPLY OPT
CDC	MICRO CIRCUITS	83324440	SERVICE	CDC MICRO CIRCUITS
CDC	ALL CDC	83322440	TECHNICAL	CDC MICROCIRCUITS DESCRIPTION VOL 1
CDC	ALL CDC	83324440	CATALOG	CDC MICROCIRCUITS DESCRIPTION VOL 2
CDC	30773	12263049	SERVICE	COMMERCIAL SPARES CATALOG
CDC	BM9100/9200	3301768-01	TECHNICAL	COPY 2
CDC	400/800	44689051	TECHNICAL	COPY2
CDC	9342	DADACS	TECHNICAL	DIAG LINE PRINTER
CDC	BR319 BR3E718	83322950	IPB	DISK STORAGE UNIT
CDC	751-10	62961700	TECHNICAL	DISPLAY LOGIC MOD
CDC	751-10	62962400	TECHNICAL	EDIT OPTION
CDC	BZ7E1 BZ7E2	83323580	OPERATOR	FIXED MODULE DRIVE
CDC	BZ7E1 BZ7E2	83323550	TECHNICAL	FIXED MODULE DRIVE
CDC	BZ7E1/7E2/7E4	83323560	PROGRAM	FIXED MODULE DRIVE
CDC	PA5A1/A2	83324500	SCHEMATICS	FIXED STORAGE DRIVE
CDC	PA5A1/PA5A2	83324510	SCHEMATICS	FIXED STORAGE DRIVE MAINT. MANUAL VOL 2
CDC	PA5A1	83324510	OPERATION	FIXED STORAGE DRIVE VOL 2
CDC	PA5A1/PA5A2	83324640	TECHNICAL	FIXED STORAGE DRIVE VOL 3
CDC	N/A	77653408	TECHNICAL	FLEXIBLE DISK DRIVE
CDC	CYBER	60481300	TECHNICAL	FORTRAN 5 REFERENCE
CDC	CYBER	60484000	PROGRAM	FORTRAN 5 USER'S GUIDE
CDC	751-10	62956100	TECHNICAL	HIGHLIGHT OPTION
CDC	PA8XX	9335710	SERVICE	INSTALL AND CHECKOUT
CDC	PA8XX	83325710	OPERATOR	INSTALL AND CHECKOUT COPY2
CDC	BK7B2W-B1G	83323980	SERVICE	INSTALLATION OF BK7 SERIES
CDC	751-10	62961500	OPERATOR	KEYBOARD MODULE
CDC	9342	50579100	IPB	LINE PRINTER
CDC	9342	101662130	PROGRAM	LINE PRINTER
CDC	9342	50579600	TECHNICAL	LINE PRINTER
CDC	9342	50579600	TECHNICAL	LINE PRINTER
CDC	LPC100	100100	LOGIC	LINE PRINTER CONT
CDC	PA1A4	83325090	MAINTENANCE	MAINTENANCE FOR EXPANDED MODULE DRIVE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CDC	400/800	44689032	INSTALLATION	MAINTENANCE MANUAL
CDC	9780 BK6XX/7XX	83322310	TECHNICAL	MODCOMP DISK
CDC	BK6XX/7XX	83322310	TECHNICAL	MODCOMP DISK
CDC	BK6XX/7XX	83322320	TECHNICAL	MODCOMP DISK
CDC	BK6XX/7XX	83322320	TECHNICAL	MODCOMP DISK
CDC	BK7A2/B1	83323980	TECHNICAL	MODCOMP DISK
CDC	753	62952500	TECHNICAL	NONIMPACT PRINTER
CDC	CYBER	60459680	PROGRAM	NOS 2 VOL3
CDC	PA5G1/G2	83324780	SERVICE IPB MANUAL	PA5N1/N2 PA5Z1/Z2
CDC	PA8K1-A	83325710	OPERATOR	PA8K2-AB/PA8G2/PA8N2
CDC	400/800	44689062	SERVICE	PARTS IDENTIFICATION MANUAL
CDC	713-10	82182300	INSTALLATION	POWER SUPPLY
CDC	9346F	50579100	SERVICE	PRINT HEAD MECH
CDC	713-120	62148600	INSTALLATION	PRINTER MECHANISM
CDC	713-120	62148700	TECHNICAL	PRINTER MECHANISM
CDC	751-10	62961900	INSTALLATION	RANDOM-ACCESS OPT
CDC	PA3A1/PA3A2	83324490	SCHEMATICS	REMOVABLE STORAGE DRIVE MAINT. VOL 2
CDC	PA3A1/PA3A2	83324630	TECHNICAL	REMOVABLE STORAGE DRIVE VOLUME 3
CDC	751-10	62962000	TECHNICAL	RX-ONLY PRINTER
CDC	400/800	44689051	IPB	SCHEMATICS
CDC	400/800	44689037	TECHNICAL	SET-UP AND REFERENCE MANUAL
CDC	750	62962800	TECHNICAL	SUBSYSTEM
CDC	713-10	62057100C	TECHNICAL	VIDEO DISPLAY
CDC	752	62961800	TECHNICAL	VIDEO-DISPLAY UNIT
CDC	BK6XX/7XX	83325380	MAINTENANCE	VOL 2
CDC	752	62957300	TECHNICAL	N/A
CDC	752	62957400	TECHNICAL	N/A
CDC	2741606	77653520	SERVICE	N/A
CDC	713-10	62048300	ENGINEERING	N/A
CDC	713-10	62033400C	ENGINEERING	N/A
CDC	713-10	62048500	OPERATOR	N/A
CDC	713-10	62048700B	OPERATOR	N/A
CDC	713-10	62037900	SERVICE	N/A
CDC	713-120	62149900	OPERATOR	N/A
CDC	713-120	62149800B	OPERATOR	N/A
CDC	713-120	62149700	TECHNICAL	N/A
CDC	713-120	62149600A	TECHNICAL	N/A
CDC	751-10	62951400	TECHNICAL	N/A
CDC	751-10	62957200	TECHNICAL	N/A
CDC	9764/9766	83323780	TECHNICAL	N/A
CDS	D44B	81903-02	OPERATOR	TECHNICAL MANUAL
CDS	D44B	76282-900	TECHNICAL	N/A
CDS	T2002B	76245-101	W	N/A
CEC	1-127	N/A	X	2 MANUALS
CEC	5-114	N/A	K	2 MANUALS
CEC	5-115	N/A	K	2 MANUALS
CEC	1-162A	N/A	N/A	3 MANUALS
CEC	SYSTEM D	N/A	N/A	5 BOOKS
CEC	1-168	N/A	K	OPERATION AND MAINTENANCE
CEC	1-155	N/A	K	OPERATIONS & MAINTENANCE MANUAL
CEC	1-163	N/A	E	OPERATIONS & SERVICE MANUAL
CEC	1-117-0001	N/A	A	SAME FOLDER/MANUAL
CEC	1-117-0100	N/A	A	SAME FOLDER/MANUAL
CEC	1-117-0109	N/A	E	SAME FOLDER/MANUAL
CEC	1000	N/A	B	SPECIFICATION SHEET
CEC	1008-0036	N/A	K	SPECIFICATION SHEET
CEC	415G30	N/A	K	SPECIFICATION SHEET
CEC	18863	N/A	V	N/A
CEC	21640	N/A	K	N/A
CEC	1-026A	N/A	X	N/A
CEC	1-1-023	N/A	A	N/A
CEC	1-124A	N/A	K	N/A
CEC	1-155	N/A	E	N/A
CEC	1-156	N/A	K	N/A
CEC	1-159	N/A	X	N/A
CEC	1-172	N/A	B	N/A
CEC	12-677A	N/A	N	N/A
CEC	24-040	N/A	N/A	N/A
CEC	24-120A	N/A	H	N/A
CEC	26-302	N/A	H	N/A
CEC	26-303	N/A	K	N/A
CEC	3-113	N/A	K	N/A
CEC	3-115A	N/A	K	N/A
CEC	3-132	N/A	X	N/A
CEC	37-001	N/A	E	N/A
CEC	37-003	N/A	E	N/A
CEC	37-103	N/A	A	N/A
CEC	4-102	N/A	A	N/A
CEC	4-106	N/A	B	N/A
CEC	4-330	N/A	B	N/A
CEC	4-333	N/A	B	N/A
CEC	4-475	N/A	B	N/A
CEC	5-114P	N/A	K	N/A
CEC	5-115P2	N/A	B	N/A
CEC	6-003-0002	N/A	W	N/A
CEC	6-102-A	N/A	B	N/A
CEC	6-201-0001	N/A	W	N/A
CEC	DG-5510	N/A	B	N/A
CEC	P-701-13	N/A	K	N/A
CEC	VR-3400	N/A	TECHNICAL	N/A
CEI	M990	799891-003	TECHNICAL	CACHE TAPE
CEI	M990	799891-004	TECHNICAL	CACHE TAPE
CEI	70S/85S	TM7085S1174	TECHNICAL	CIPHER TAPE RECORDER
CEI	70X/80X	799811-007E	SERVICE	DUAL-MODE TAPE RECO
CEI	910	799850-003	SERVICE	LONGBOOK
CEI	M990	799891-001	TECHNICAL	MAINTENANCE CACHE TAPE
CEI	M990	799891-001	TECHNICAL	MAINTENANCE GCR CACHETAPE



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CEI	F880	799816-003	SERVICE	OPERATOR MAINTENANCE SCHEMATICS
CEI	910	799850-000	OPERATOR/MAINTENANCE	SCHEMATICS
CEI	M990 GCR M89011	799891-002	SERVICE	SCHEMATICS
CEI	M990	799891-002	SERVICE	THEORY OF OPERATION
CEI	M990/M991	799891-001	SCHEMATICS	USER HAS BOOK AT BLDG 1250 S.SHIPLEY
CEI	M990/M991	360102-319	N/A	USER HAS BOOK AT BLDG 1250 S.SHIPLEY
CEI	85	TM85371	TECHNICAL	N/A
CEI	70H/85H/100H	799801-000E	TECHNICAL	N/A
CEI	70X/80X	799811-007L	TECHNICAL	N/A
CEI	F880	799816-003	TECHNICAL	N/A
CEI	M890-M891	799816-007	OPERATOR	N/A
CEI	M990	799891-003	SCHEMATICS	N/A
CEI	M990	799891-004	TECHNICAL	N/A
CEL INSTRUMENTS	213	N/A	H	OPERATION MANUAL
CELESCO	BRJR13-21TP	N/A	H	INSTRUCTION
CELESCO	BRJW135-48P	N/A	H	INSTRUCTION
CELESCO	FRJ32-24PP	N/A	H	INSTRUCTION
CELESCO	FRJ32-24PP	N/A	H	INSTRUCTION
CELESCO	FRJ32-24PP-80863	N/A	TECHNICAL	INSTRUCTION
CELESCO	BRJW135-48TP	N/A	H	N/A
CEN	CT301/CI302	44689062	B	LINEWRITER 400/800
CEN	306	37400040-H	TECHNICAL	PRINTER
CEN	730-3/730-4	37400820 A	IPB	PRINTER
CEN	508	37400210 B	TECHNICAL	TELEPRINTER
CEN	101	37400010D	TECHNICAL	N/A
CEN	737-1	37400782A	TECHNICAL	N/A
CEN	737-1/2	37400780A	IPB	N/A
CENCO	94103	N/A	O	N/A
CENTRAL SCIENTIFIC	12315	N/A	K	N/A
CENTRAL SCIENTIFIC	71010	N/A	E	N/A
CENTRAL SCIENTIFIC	80700	N/A	Q	N/A
CENTRONICS	101	N/A	X	N/A
CENTRONICS	MICROPRINTER S-1	N/A	Q	N/A
CENTRONICS	P1/S1	N/A	Q	N/A
CENTURY	408	N/A	K	N/A
CENTURY	420	N/A	K	N/A
CENTURY	1000/1010	N/A	K	N/A
CETEC VEGA	QR-1/QT-1	N/A	K	2 MANUALS
CETEC VEGA	77	N/A	N/A	3 MANUALS
CETEC VEGA	DYNEX II	N/A	K	SCHEMATIC
CETEC VEGA	R-32	N/A	K	SCHEMATIC
CETEC VEGA	T-80	N/A	V	SCHEMATIC
CETEC VEGA	QX-2	N/A	N/A	N/A
CETEC VEGA	R-41/R-42	N/A	N/A	N/A
CHADWICK HELMUTH	201	N/A	V	2 COPIES
CHADWICK HELMUTH	424	N/A	X	N/A
CHADWICK HELMUTH	121 122 126 127B	N/A	V	N/A
CHADWICK HELMUTH	121A 122A 126A	N/A	V	N/A
CHADWICK HELMUTH	140B/77B/77B-1	N/A	X	N/A
CHADWICK HELMUTH	209A	N/A	N/A	N/A
CHADWICK HELMUTH	370-371	N/A	F	N/A
CHALCO	500425-780	N/A	X	N/A
CHALCO	Z17H0750818	N/A	E	N/A
CHANCE	LS-80	N/A	B	OWNER'S MANUAL
CHANCE VOUGHT	304-294	N/A	TECHNICAL	N/A
CHN	MICROVAX II	CI-MIV	N/A	MICROVAXII
CHRISTIE ELECTRIC	2500B	N/A	N/A	D.C. POWER SUPPLY
CHRISTIE ELECTRIC	CASP2000H	N/A	X	OPERATOR/CALIBRATION
CHRISTIE ELECTRIC	MH36-200KGGX24R	N/A	H	N/A
CHROMALOX	694755	N/A	X	CALIBRATION
CHROMATIX	CMX-4	N/A	F	N/A
CHRONETICS	PG-33	N/A	X	2 COPIES
CHRONETICS	100	N/A	X	N/A
CHRONETICS	151A	N/A	X	N/A
CHRONETICS	PG-14B	N/A	X	N/A
CHRONETICS	PG-2	N/A	X	N/A
CHRONETICS	PG-32	N/A	X	N/A
CHRONOLOG	70-201 214	N/A	TECHNICAL	N/A
CHRONO-LOG	SERIES 70 000	N/A	F	3 COPIES
CHX	ENP-40	6214000-05	TECHNICAL	ENP-40 REFERENCE GUIDE
CHX	ENP-66	6219000-05C	TECHNICAL	ENP-66 REFERENCE GUIDE
CHX	ENP-40	6214000	SERVICE	ETHERNET NODE PROCESSOR
CHX	ENP-50	6215000A	SERVICE	ETHERNET NODE PROCESSOR
CHX	ENP-66	6219000	SERVICE	ETHERNET NODE PROCESSOR
CIB	MPC	1027	SERVICE	MULTI-PERSONAL COMPUTER
CIH	1550	M1550BP/BC2	SERVICE	DOT MATRIX SERIAL IMPACT PRINTER
CIH	CI-600/CI-800	093-051	OPERATOR	MAINTENANCE MANUAL
CIH	8510	EO-1662	OPERATOR	MANUAL FOR DOT MATRIX PRINTER
CIH	CI-5000	093-501	TECHNICAL	SERVICE SCHEMATICS THEORY
CIH	CI600	C1600-MM-00	X	SERVICE SCHEMATICS IPB
CIH	1550	EO-1687-R	SERVICE	N/A
CIH	A10-20	E1-16100B	SERVICE	N/A
CIH	A10-20	EO-1681-A	TECHNICAL	N/A
CIH	CI300+/CI600+	039-049300/600	TECHNICAL	N/A
CIMRON	6410S	N/A	X	2 COPIES
CIMRON	6801A/6802A	N/A	E	2 MANUALS
CIMRON	7000A	N/A	E	2 MANUALS
CIMRON	6701	N/A	E	2 VOLUME MANUAL 2 SETS
CIMRON	950	N/A	X	INSTRUCTION
CIMRON	6753	N/A	E	INSTRUCTION
CIMRON	6753	N/A	E	INSTRUCTION
CIMRON	6753	N/A	X	INSTRUCTION
CIMRON	6753	N/A	X	INSTRUCTION
CIMRON	6812	N/A	X	INSTRUCTION
CIMRON	7600	N/A	E	INSTRUCTION
CIMRON	6200A/6300A	N/A	X	INSTRUCTION
CIMRON	6700B	N/A	X	INSTRUCTION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CIMRON	6701A	N/A	X	INSTRUCTION
CIMRON	6701B	N/A	E	INSTRUCTION
CIMRON	6801A/6802A	N/A	E	INSTRUCTION
CIMRON	6911A	N/A	X	INSTRUCTION
CIMRON	7200A	N/A	X	INSTRUCTION
CIMRON	7600A	N/A	E	INSTRUCTION
CIMRON	7600A	N/A	E	INSTRUCTION
CIMRON	7600A	N/A	E	INSTRUCTION
CIMRON	7901A	N/A	E	INSTRUCTION
CIMRON	P9000B	N/A	OPERATION	INSTRUCTION
CIMRON	6753	N/A	E	N/A
CIMRON	7600	N/A	E	N/A
CIMRON	1100A-812	N/A	E	N/A
CIMRON	6420S	N/A	E	N/A
CIMRON	6701A	N/A	E	N/A
CIMRON	6869B	N/A	X	N/A
CIMRON	6910A	N/A	E	N/A
CIMRON	6930A	N/A	X	N/A
CIMRON	6980B	N/A	X	N/A
CIMRON	7200A 7400A	N/A	X	N/A
CIMRON	9500B-736	N/A	E	N/A
CITIZEN	PN48	N/A	ENGR DWG	OPERATION
CKS	PASS-3100	09-8426 REV B	INSTALLATION	ACD SECURITY SYSTEM
CKS	DST-P	09-8815-01	INSTALLATION	DUAL PROX STI (1201)
CKS	D620	1248	ENGR DWG	FLOOR PLAN
CKS	L54-E	09-8813-01E	INSTALLATION	FOR L54-E PROXIMITY READER
CKS	L40 D40 L47	09-9053-01B	INSTALLATION	FOR SWIPE READERS
CKS	L42 D42	09-9055-01	INSTALLATION	INSERTION READERS (NEW)
CKS	L55	09-9077-01	INSTALLATION	INSTALLATION MANUAL MODEL L55 PROXIMITY 1000 SERIES READER
CKS	STI-C/STI-S	09-8736-01	INSTALLATION	INSTALLATION MANUAL SMART TERMINAL INTERFACE
CKS	STH-E	09-8994-01D	X	INSTALLATION MANUAL ENHANCED SMART TERMINAL INTERFACE UNIT
CKS	PEGASYS 1000	09-9031-01	INSTALLATION	INSTALLATION MANUAL FOR PEGASYS 1000 SECURITY SYSTEM
CKS	D600/D620 SERIES	09-9057-01	ENGR DWG	INSTALLATION MANUAL FOR TERMINAL CONTROLLERS
CKS	DST-P	09-8815-01G	INSTALLATION	INSTALLATION MANUAL FOR TERMINAL INTERFACE
CKS	DST-S/DST/R	09-8816-01	INSTALLATION	INSTALLATION MANUAL FOR TERMINAL INTERFACE
CKS	D360	09-9012-01	INSTALLATION	INSTALLATION-INTELL TERM/CONT (1201)
CKS	L6	2449561	OPERATOR	L6 SERIES INSERTION READER
CKS	D620/D622	09-9009-01	INSTALLATION	OPERATIONAL MANUAL FOR INTELLIGENT TERMINAL CONTROLLER
CKS	PASS 360-EX	09-9005-01	OPERATOR	OPERATIONS MANUAL (1201)
CKS	D620-TIU	09-9056-01	OPERATIONAL MANUAL	OPERATORS MANUAL FOR LOOP TERMINAL CONTROLLER
CKS	PROX2000	09-8813-01	INSTALLATION	PROXIMITY READER L54E ACCESS MODULE
CKS	5270/5280/5288/5311 /5312	HB02/62 ISS 2	INSTALLATION	READER HANDBOOK FOR PROXIMITY READERS
CKS	D620	648	ENGR DWG	WIRING DIAGRAM
CKS	D620	1145	ENGR DWG	WIRING DIAGRAM
CKS	D620	1146	ENGR DWG	WIRING DIAGRAM
CKS	D620	1155	ENGR DWG	WIRING DIAGRAM
CKS	D620	1162	ENGR DWG	WIRING DIAGRAM
CKS	D620	1163	ENGR DWG	WIRING DIAGRAM
CKS	D620	1169	ENGR DWG	WIRING DIAGRAM
CKS	D620	1192	ENGR DWG	WIRING DIAGRAM
CKS	D620	1194	ENGR DWG	WIRING DIAGRAM
CKS	D620	1219	ENGR DWG	WIRING DIAGRAM
CKS	D620	1230	ENGR DWG	WIRING DIAGRAM
CKS	D620	1236	ENGR DWG	WIRING DIAGRAM
CKS	D620	1244	ENGR DWG	WIRING DIAGRAM
CKS	D620	1268	ENGR DWG	WIRING DIAGRAM
CKS	D620	1298	ENGR DWG	WIRING DIAGRAM
CKS	D620	1145T	ENGR DWG	WIRING DIAGRAM
CKS	D620	1194A	ENGR DWG	WIRING DIAGRAM
CKS	D620	1268A/1268D	ENGR DWG	WIRING DIAGRAM
CKS	D620	1268B	ENGR DWG	WIRING DIAGRAM
CKS	D620	1268C	ENGR DWG	WIRING DIAGRAM
CKS	D620	1220	OPERATIONAL	WIRING DIAGRAM
CKS	N/A	1155 AND 1145	HANDBOOK	WIRING DIAGRAM
CKS	D620	1250	ENGR DWG	WIRING DIAGRAM (INTERIOR DOORS)
CKS	D620	1265	ENGR DWG	WIRING DIAGRAM (NEW EXTERIOR DOORS)
CLARK BULLITON	4000AUTOVOLT-REG	N/A	OPER/SERV	N/A
CLARKE-HESS	235	N/A	OPER/SERV	DIGITAL WATTMETER
CLARKE-HESS	235	N/A	OPER/SERV	DIGITAL WATTMETER
CLARKE-HESS	235	N/A	X	DIGITAL WATTMETER
CLAROSTAT	PWR RSTR DECAD	N/A	OPERATING & MAINTENANCE	N/A
CLARY CORPORATION	UPS1-1.25K-1G-	N/A	H	UNINTERRUPTIBLE PWER SYSTEM MODELS -SRN -R -RN
CLIMATRONICS	100096	N/A	H	INSTRUCTION
CLIMATRONICS	100191	N/A	H	INSTRUCTION
CLIMATRONICS	100224	N/A	H	INSTRUCTION
CLIMATRONICS	100241	N/A	H	INSTRUCTION
CLIMATRONICS	100081G0	N/A	H	INSTRUCTION
CLIMATRONICS	F460	N/A	E	INSTRUCTION
CLIMET	208AF/A	N/A	X	3 MANUALS
CLIMET	235	N/A	N/A	INSTRUCTION
CLIMET	0208A	N/A	X	INSTRUCTION
CLIMET	209	N/A	X	N/A
CLIMET	235	N/A	E	N/A
CLUBMAC	N/A	N/A	INSTALLATION	USER'S GUIDE FOR EXTERNAL HARD DRIVES.
CLZ	MV2RAM8	MV2RAM	INSTALLATION	8 MEGABYTES
CLZ	DCME-V7	V7XUMV1	OPERATOR	8MBYTE MEMORY BOARD VAX 11 SERIES
CLZ	VXR780	VXR780-01	E	OPERATOR MEMORY
CLZ	DCME-M30	DCME-M30	INSTALLATION	N/A
CMC	100 D/E	N/A	X	OPERATING
CMC	301	N/A	L	N/A
CME	FCS-3	N/A	F	CATALOG
CML	600	N/A	F	N/A
CML	880A/884A	N/A	X	N/A
CML	CRS-100	N/A	SERVICE	N/A
CNA	PJ-1080A	OY80043-212	SERVICE	COLOR INK-JET PRINTER
CNA	LBP-SX	8-RY8-1315-000	SERVICE	SERVICE MANUAL
COB	RCVDS-400	5975142	SERVICE	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
COBA	3100	TD1183-03	U	LOGIC/IPB
CODEX	2233	N/A	O	N/A
COHERENT	201	N/A	G	INSTRUCTION
COHERENT	205	N/A	I	INSTRUCTION
COHERENT	213	N/A	X-0	INSTRUCTION
COHERENT	LABMASTER	N/A	X	OPERATORS
COHERENT	200	N/A	G	N/A
COHERENT	213	N/A	G	N/A
COHERENT	240	N/A	X-K	N/A
COHERENT	251	N/A	N/A	N/A
COHU	3900	N/A	X	2 MANUALS
COHU	303/A	N/A	E	2 MANUALS
COHU	456B	N/A	X	3 MANUALS
COHU	303A	N/A	X	OPERATION AND MAINTENANCE
COHU	303B	N/A	X	OPERATION AND MAINTENANCE
COHU	321/323	N/A	X	OPERATION AND MAINTENANCE
COHU	6000	N/A	X	SERIES
COHU	4810	N/A	K	SERVICE MANUAL
COHU	110	N/A	X	N/A
COHU	304	N/A	K	N/A
COHU	321	N/A	E	N/A
COHU	326	N/A	X	N/A
COHU	2380	N/A	K	N/A
COHU	2750	N/A	K	N/A
COHU	3000	N/A	X	N/A
COHU	3200	N/A	X	N/A
COHU	9800	N/A	K	N/A
COHU	114A	N/A	K	N/A
COHU	1995C/U	N/A	K	N/A
COHU	1995CL/CS	N/A	K	N/A
COHU	20/20	N/A	X	N/A
COHU	202B/BR	N/A	X	N/A
COHU	203A/AR	N/A	K	N/A
COHU	2404/06	N/A	X	N/A
COHU	2840/50	N/A	X	N/A
COHU	303B	N/A	E	N/A
COHU	473A	N/A	N/A	N/A
COHU	CTJ-2	N/A	K	N/A
COHU	DBG-2	N/A	X	N/A
COHU	DBG-2	N/A	X	N/A
COHU	FIARS 170	N/A	K	N/A
COHU	GRM/FRM	N/A	X	N/A
COHU	HRM-A	N/A	INSTALLA	N/A
COHU INC.	3310 AND 3710	N/A	X	INSTALLATION OPERATION AND MAINTENANCE INSTRUCTIONS
COLE PARMER	8523-00	N/A	H	INSTRUCTION
COLE PARMER	8524-00	N/A	OPERATING	INSTRUCTION
COLE PARMER	2156-1	N/A	H	N/A
COLEMAN INSTRUMENTS	28-902	N/A	G	PH METER
COLE-PARMER INSTRUMENT CO.	3309-50	N/A	OPERATING	HYGROMETER DIGITAL
COLE-PARMER INSTRUMENT CO.	8368-50	N/A	OPERATING	HYGROTHERMOGRAPH
COLE-PARMER INSTRUMENT CO.	7350 SERIES	N/A	INSTRUCTION	METER DIGITAL PRESSURE
COLE-PARMER INSTRUMENT CO.	5994	N/A	OPERATING	PH METER
COLLINS	332D-11A	N/A	G	OVERHAUL MANUAL
COLLINS	1800-1	N/A	G	N/A
COLLINS	32RS-1	N/A	R	N/A
COLLINS	51J-3	N/A	OPERATOR	N/A
COLN	FTMP 1553/1559	1553/1559	K	CPU
COLN	FTMP	CSDLR1603	SCHEMATICS	EXEC SUMMARY
COLN	FTMP	NASACR 160071	OPERATOR	PRINCIPLES OF OPERATION
COLN	FTMP	NASACR 166073	OPERATOR	TEST + EVAL
COLN	1	CAPS001	OPERATOR	USER GUIDE P/O FTMP
COLORADO VIDEO	624	N/A	B	2 MANUALS
COLORADO VIDEO	321C	N/A	K	2 MANUALS
COLORADO VIDEO	603A	N/A	K	2 MANUALS
COLORADO VIDEO	120	N/A	K	N/A
COLORADO VIDEO	321	N/A	K	N/A
COLORADO VIDEO	410	N/A	K	N/A
COLORADO VIDEO	460	N/A	K	N/A
COLORADO VIDEO	620	N/A	K	N/A
COLORADO VIDEO	302-2	N/A	K	N/A
COLSOLIDATED CNTRL	UPC5000	N/A	X	N/A
COLUMBIA	4000	N/A	E	2 MANUALS
COLUMBIA	6000	N/A	E	2 MANUALS
COLUMBIA	8003/M	N/A	R	2 MANUALS
COLUMBIA	CATALOG	N/A	X	ACCELEROMETER
COLUMBIA	6000	N/A	X	INSTRUCTION
COLUMBIA	6003	N/A	X	INSTRUCTION
COLUMBIA	6006-V6A06	N/A	X	N/A
COLUMBIA	CFP-12	N/A	N/A	N/A
COMBI SONICS	150	N/A	L	N/A
COMBUSTION ENG.	W4	N/A	L	CATALOG
COMBUSTION ENG.	WEP4	N/A	L	CATALOG
COMBUSTION ENG.	WFP6	N/A	Q	CATALOG
COMMODORE	4032	N/A	P	LIBRARY OF PET SUBROUTINES
COMMODORE	4032	N/A	P	MCS6502 MICROPROCESSOR INSTRUCTION SET
COMMODORE	4032	N/A	P	MLM SUPERMAN
COMMODORE	4032	N/A	P	PET AND THE IEEE-488 BUS (GPIB)
COMMODORE	4032	N/A	Q	PET COMPUTER BASIC 4.0
COMMODORE	4032	N/A	P	PET COMPUTER DP PROGRAMS
COMMODORE	4032	N/A	P	PET GUIDE BOOK (2.0 BASIC UPGRADE)
COMMODORE	4032	N/A	P	PET GUIDE BOOK (INITIAL)
COMMODORE	4032	N/A	P	PET GUIDE BOOK (INITIAL)
COMMODORE	4032	N/A	P	PET WORKBOOK
COMMODORE	4032	N/A	P	PET/CBM PERSONAL COMPUTER GUIDE
COMMODORE	2040	N/A	Q	USER'S MANUAL
COMMODORE	2001-8	N/A	Q	USER'S MANUAL
COMMODORE	2022	N/A	Q	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
COMMODORE	2001-16	N/A	P	N/A
COMMODORE	4022P	N/A	P	N/A
COMMODORE	BASIC 4.0	N/A	Q	N/A
COMMODORE	CBM 5/14" DUAL	N/A	Q	N/A
COMMODORE	CBM MAN	N/A	Q	N/A
COMMODORE	DISK SYSTEM	N/A	Q	N/A
COMMODORE	LIBRARY OF PER.	N/A	K	N/A
COMOCO	778/779	N/A	F	N/A
COMP. MEASUREMENTS	226B	N/A	F	2 MANUALS
COMP. MEASUREMENTS	604A 605A	N/A	F	2 MANUALS
COMP. MEASUREMENTS	301	N/A	F	N/A
COMP. MEASUREMENTS	100 105 120 125	N/A	F	N/A
COMP. MEASUREMENTS	101A & 101AR	N/A	F	N/A
COMP. MEASUREMENTS	1066A	N/A	F	N/A
COMP. MEASUREMENTS	201B	N/A	F	N/A
COMP. MEASUREMENTS	203A	N/A	F	N/A
COMP. MEASUREMENTS	204C	N/A	F	N/A
COMP. MEASUREMENTS	211B	N/A	F	N/A
COMP. MEASUREMENTS	225B	N/A	F	N/A
COMP. MEASUREMENTS	225C	N/A	F	N/A
COMP. MEASUREMENTS	226A	N/A	F	N/A
COMP. MEASUREMENTS	252A	N/A	J	N/A
COMP. MEASUREMENTS	310A	N/A	F	N/A
COMP. MEASUREMENTS	320A	N/A	F	N/A
COMP. MEASUREMENTS	400C	N/A	F	N/A
COMP. MEASUREMENTS	401A	N/A	F	N/A
COMP. MEASUREMENTS	50-7050	N/A	F	N/A
COMP. MEASUREMENTS	603A	N/A	F	N/A
COMP. MEASUREMENTS	604A	N/A	F	N/A
COMP. MEASUREMENTS	605A	N/A	F	N/A
COMP. MEASUREMENTS	726B	N/A	F	N/A
COMP. MEASUREMENTS	727A & 727AN	N/A	F	N/A
COMP. MEASUREMENTS	731B & 730B	N/A	F	N/A
COMP. MEASUREMENTS	737BU	N/A	F	N/A
COMP. MEASUREMENTS	757A	N/A	F	N/A
COMP. MEASUREMENTS	834B	N/A	F	N/A
COMP. MEASUREMENTS	838A	N/A	X	N/A
COMP. MEASUREMENTS	A10	N/A	X	N/A
COMPAQ	PORTABLE 3	N/A	O	M00838/COMPUTER SOFTWARE
COMPAQ	PORTABLE 3	N/A	N/A	M00839/COMPUTER SOFTWARE
COMPAQ	PORTABLE 3	N/A	N/A	M00840/COMPUTER SOFTWARE
COMPAQ	PORTABLE 3	N/A	N/A	M00841/COMPUTER SOFTWARE
COMPAQ	MS-DOS/3.31	N/A	N/A	M00842/COMPUTER SOFTWARE
COMPAQ	MS-DOS/3.31	N/A	N/A	M00843/COMPUTER SOFTWARE
COMPAQ	BASIC 3.3	N/A	N/A	M00844/COMPUTER REFERENCE
COMPAQ	BASIC 3.3	N/A	N/A	M00845/COMPUTER REFERENCE
COMPAQ	MS-DOS 3	N/A	N/A	M00877/COMPUTER SOFTWARE
COMPAQ	MS-DOS 3	N/A	N/A	M00878/COMPUTER SOFTWARE
COMPAQ	MS-DOS 3	N/A	N/A	M00879/COMPUTER SOFTWARE
COMPAQ	MS-DOS 3	N/A	N/A	M00880/COMPUTER SOFTWARE
COMPAQ	MS-DOS 3	N/A	N/A	M00881/COMPUTER SOFTWARE
COMPAQ	PORTABLE 3	N/A	N/A	M00882/COMPUTER PERSONAL
COMPAQ	PORTABLE 3	N/A	N/A	M00883/COMPUTER PERSONAL
COMPAQ	PORTABLE 3	N/A	N/A	M00884/COMPUTER PERSONAL
COMPAQ	PORTABLE 3	N/A	N/A	M00885/COMPUTER PERSONAL
COMPAQ	PORTABLE 3	N/A	N/A	M00886/COMPUTER PERSONAL
COMPAQ	BASIC 3.3	N/A	N/A	M00887/COMPUTER REFERENCE
COMPAQ	BASIC 3.3	N/A	N/A	M00888/COMPUTER REFERENCE
COMPAQ	BASIC 3.3	N/A	N/A	M00889/COMPUTER REFERENCE
COMPAQ	BASIC 3.3	N/A	N/A	M00890/COMPUTER REFERENCE
COMPAQ	BASIC 3.3	N/A	N/A	M00891/COMPUTER REFERENCE
COMPAQ	MS-DOS 3.31	N/A	N/A	M00892/COMPUTER REFERENCE
COMPAQ	MS-DOS 3.31	N/A	N/A	M00893/COMPUTER REFERENCE
COMPAQ	MS-DOS 3.31	N/A	N/A	M00894/COMPUTER REFERENCE
COMPAQ	MS-DOS 3.31	N/A	N/A	M00895/COMPUTER REFERENCE
COMPAQ	MS-DOS 3.31	N/A	N/A	M00896/COMPUTER REFERENCE
COMPUTOMOTOR	2100-1-488	N/A	N/A	OPERATOR'S MANUAL
COMPUTER ACCES.CORP.	A200	N/A	X	M00859/DISPLAY DATA
COMPUTER CONTROL CO.	S PAC	N/A	X	N/A
COMPUTER CONTROL CO.	SP-30	N/A	Q	N/A
COMPUTER DEVICES INC	1030	N/A	X	N/A
COMPUTER/ND	282E	N/A	H	N/A
CON OHMIC	SCT1305	N/A	H	CALIBRATION
CON OHMIC	SCT1310	N/A	H	CALIBRATION
CON OHMIC	SCT1315	N/A	H	CALIBRATION
CON OHMIC	SCT1320	N/A	H	CALIBRATION
CON OHMIC	SCT1325	N/A	H	CALIBRATION
CON OHMIC	SCT1330	N/A	H	CALIBRATION
CON OHMIC	SCT1335	N/A	H	CALIBRATION
CON OHMIC	SCT1340	N/A	H	CALIBRATION
CON OHMIC	SCT1345	N/A	H	CALIBRATION
CON OHMIC	320	N/A	H	SERVICE
CON OHMIC	321	N/A	H	SERVICE
CON OHMIC	322	N/A	H	SERVICE
CON OHMIC	OJR311	N/A	H	SERVICE
CON OHMIC	VJR1135	N/A	N	SERVICE
CON. ELECTRODYNAMICS	26-301	N/A	B	OPERATION
CON. ELECTRODYNAMICS	21-612	N/A	H	N/A
CONAL	284	N/A	E	N/A
CONDEC	50PM5	N/A	INSTRUCTION MANUAL	INSTRUCTION
CONDITION LINE AC ELGAR CORP.	6006A	N/A	X	INSTRUCTION MANUAL
CONKLIN INSTRUMENT	204B	N/A	X	CALIBRATION PROCEDURE
CONKLIN INSTRUMENT	MICRO-RITER	N/A	A	N/A
CONN CG L&B	GT-3	N/A	A	N/A
CONNAND INSTRUMENTS	8T	N/A	B	N/A
CONFLOW	H-10	N/A	K	N/A
CONRAC	2400	N/A	K	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CONRAC	5200/5300	N/A	K	N/A
CONRAC	7111/7211	N/A	K	N/A
CONRAC	AV-12E	N/A	K	N/A
CONRAC	CQE	N/A	K	N/A
CONRAC	CSS-3	N/A	K	N/A
CONRAC	CYA	N/A	K	N/A
CONRAC	QQA	N/A	K	N/A
CONRAC	RVC	N/A	K	N/A
CONRAC	RVC	N/A	K	N/A
CONRAC	SNA	N/A	E	N/A
CONSO. AIRBORNE	TTU-27/E	N/A	B	TECHNICAL
CONSOLIDATED CNTRL.	APC-4000	N/A	B	N/A
CONSOLIDATED CNTRL.	UPS-3000	N/A	N	N/A
CONSOLIDATED ENG.	9-101A	N/A	B	2 MANUALS
CONSOLIDATED ENG.	24-101A	N/A	X	N/A
CONSOLIDATED ENG.	3-115A	N/A	X	N/A
CONSOLIDATED ENG.	3-132	N/A	X	N/A
CONSOLIDATED VACUUM	6-70A	N/A	B	N/A
CONSOLIDATED VACUUM	9-41-A	N/A	B	N/A
CONSOLIDATED VACUUM	9-43-C	N/A	B	N/A
CONSOLIDATED VACUUM	BC-A	N/A	B	N/A
CONSOLIDATED VACUUM	BCRU	N/A	B	N/A
CONSOLIDATED VACUUM	G-70B	N/A	B	N/A
CONSOLIDATED VACUUM	GPH 100	N/A	B	N/A
CONSOLIDATED VACUUM	GS-100	N/A	E	N/A
CONTINENTAL	DI WATER SERVICE	N/A	N/A	USER
CONTRAVE GOERZ	80 CGM 600	N/A	X	OPERATION & MAINTENANCE MANUAL
CONTROL SYSTEMS	661F	N/A	L	N/A
CONTROLOTRON	240	N/A	B	N/A
COOKE	IG-10	N/A	B	N/A
COOKE VACUUM	IGC-18	N/A	B	N/A
COOKE VACUUM	IGC-19	N/A	B	N/A
COOKE VACUUM	IGC-20	N/A	B	N/A
COOKE VACUUM	IGC-20-1	N/A	H	N/A
COOPER	CATALOG	N/A	X	TOOLS
CORNELL-DUBILIER	BF-60	N/A	C	N/A
CORNING	12	N/A	L	INSTRUCTION
CORNING	12	N/A	C	SERVICE
COX	700	N/A	X	4 MANUALS
COX	20	N/A	X	N/A
COX	106-255	N/A	L	N/A
COX	743-3	N/A	X	N/A
COX	A2B	N/A	X	N/A
COX	AIB	N/A	L	N/A
COX	AN	N/A	L	N/A
COX	LF	N/A	X	N/A
COX AND STEVENS	C-40200	N/A	X	OVERHAUL INSTRUCTIONS
COX AND STEVENS	CS-10	N/A	X	N/A
COX AND STEVENS	CS-7500	N/A	X	N/A
COX AND STEVENS	V1	N/A	X	N/A
COX AND STEVENS	V2	N/A	SERVICE	N/A
CPQ	COMPAQ	1716	SERVICE	BLUE-LINGS
CPQ	900	171682-001	SERVICE	COMPAQ PRESARIO 900 SERIES
CPQ	DESKPRO 286	102551-003	SERVICE	DESKPRO 286 OPERATIONS GUIDE
CPQ	DESKPRO	101376001	SERVICE	DIAGNOSTIC DESCRIPTION
CPQ	DESKPRO-386	108033-002	SERVICE	INCLUDES DIAG
CPQ	PRESARIO 400	160715-001	SERVICE	MAINTENANCE AND SERVICE
CPQ	PROLINEA/PRESARIO	141780-002	MAINTENANCE	MAINTENANCE AND SERVICE
CPQ	LTE	117159-003	SERVICE	MAINTENANCE AND SERVICE MANUAL
CPQ	CONCERTO	144906-001	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	CONTURA AERO	197235-001	PROGRAM	MAINTENANCE AND SERVICE GUIDE
CPQ	DESKPRO XL	148278-001	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	DESKPRO/M	129271-004	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	MINITOWER	197466-001	CATALOG	MAINTENANCE AND SERVICE GUIDE
CPQ	PRESARIO/PROLINEA	160715-002	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	PROLIANT	195665-001	INSTALLATION GUIDE	MAINTENANCE AND SERVICE GUIDE
CPQ	PROSIGNA	144257-001	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	PROSIGNA VS	137786-001	SERVICE	MAINTENANCE AND SERVICE GUIDE
CPQ	SYSTEMPRO/XL	143112-001	SERVICE ADVISORY #1	MAINTENANCE AND SERVICE GUIDE
CPQ	DESKPRO XE	194337-001	SERVICE	MAINTENANCE AND SERVICE MANUAL
CPQ	PORTABLE 286	102901-001	SERVICE	PC
CPQ	DESKPRO	102978-001	OPERATOR	PC-WITH DIAGS
CPQ	PORTABLE II	104202-001	SERVICE	PORTABLE II OPERATIONS GUIDE
CPQ	ALL	QUICK REF	SERVICE	QUICK REF FOR ALL COMPAQ
CPQ	ALL	107315-003	SERVICE	QUICK REFERENCE
CPQ	PROLIANT	165719-001	SERVICE	RACK PLANNING & INSTALLATION GUIDE
CPQ	DESKPRO	115538-005	OPERATOR	REFERENCE GUIDE
CPQ	RACK	169957-001	MAINTENANCE	SERVICE GUIDE MOUNTABLE COMPAQ PRODUCTS
CPQ	VARIOUS	N/A	TECHNICAL UPDATE	SERVICE INFORMATION FOR VARIOUS COMPAQ COMPUTERS
CPQ	VARIOUS	N/A	TECHNICAL	SERVICE INFORMATION FOR VARIOUS MODELS
CPQ	500	177196-001	SERVICE	SERVICE MANUAL FOR PRESARIO 500 SERIES
CPQ	700	171739-001	SERVICE	SERVICE MANUAL FOR PRESARIO 700 SERIES
CPQ	PORT/DESKPRO	PORT/DESKPRO	SERVICE	SPARE PRTS PRICE LIST. SERVICE BULLETI
CPQ	COMPAQ	100002-001	SERVICE	TECHNICAL
CPQ	VARIOUS	N/A	SERVICE ADVISORY #2	TECHNICAL INFORMATION FOR VARIOUS MODELS
CPQ	VARIOUS	N/A	TECHNICAL	TECHNICAL INFORMATION FOR VARIOUS MODELS
CPQ	420	109496-001	SERVICE	VIDEO GRAPHICS CONTROLLER
CPQ	386/25	115547-001	TECHNICAL	VOLUME I
CPQ	386/25	115550-001	TECHNICAL REFERENCE	VOLUME II
CPQ	COMPAQ	100002-001	SCHEMATICS	WRAP AROUND PLUG AND DIAG.
CPQ	386	108033-002	TECHNICAL	N/A
CPQ	DESKPRO 286	102899-003	SERVICE	N/A
CPQ	DESKPRO 386/20	113159-001	SERVICE	N/A
CPQ	PORTABLE 386	107538-001	OPERATOR	N/A
CPQ	PORTABLE II	104206-001	SERVICE	N/A
CPQ	PORTABLE III	107311-002	SERVICE	N/A
CPQ	VIDEO GRAPHICS	109189-001	SERVICE	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
CQW	TE5154	TE5154	SERVICE	SCHEMATICS
CRC	7211	106517-999	SERVICE	INSTALL/OPERATOR
CRC	QQA SERIES	IB-106336-999	N/A	OPERATOR
CREATIVE MARKETING	PRODUCT CATALOGS	N/A	OPERATOR	N/A
CRN	2000	004-000-003454	N/A	DAISYWRITER
CROWN	600	N/A	U	REFERENCE MANUAL
CROWN	1200	N/A	N/A	REFERENCE MANUAL
CROWN	2400	N/A	N/A	REFERENCE MANUAL
CROWN	24X6	N/A	N/A	REFERENCE MANUAL
CROWN	36X12	N/A	N/A	REFERENCE MANUAL
CROWN	CTA-4400T	N/A	U	N/A
CROWN	CX-844	N/A	X	N/A
CROWN	D-150	N/A	X	N/A
CROWN	DC-300	N/A	X	N/A
CROWN	DC-300	N/A	N/A	N/A
CROWN INTERNATIONAL INC.	CT-400	N/A	SERVICE	OWNERS AND SERVICE
CRV	MB 20 REV H	7100-04704	H	N/A
CRYOGENICS RESEARCH	TC-101	N/A	B	INSTRUCTION
CRYOLAB	LS-160	N/A	H	N/A
CTI CRYOGENICS	M8040024	N/A	X	INSTRUCTION
CUBIC	V-41	N/A	X	CALIBRATION PROCEDURE
CUBIC	V-51	N/A	X	CALIBRATION PROCEDURE
CUBIC	1300	N/A	E	N/A
CUBIC	V-46A & V-46AP	N/A	E	N/A
CUBIC	V-51	N/A	X	N/A
CUBIC	VRO-70	N/A	X	N/A
CUESTA SYSTEMS	200W & 90W	N/A	X	N/A
CUSTOM PRODUCTS	18	N/A	X	N/A
CUSTOM PRODUCTS	18B	N/A	X	N/A
CUSTOM PRODUCTS	18C	N/A	X	N/A
CUSTOM PRODUCTS	18D	N/A	SCHEMATICS	N/A
CVB	MICRO-MATCH	000MM01	N/A	COMPUTER INTERFACE SCHEMATICS
CVC	6-150-A	N/A	SERVICE	N/A
CVI	793	173B	B	DMA/I/O MODULE
D & H	5305	N/A	B	N/A
D & H	5306	N/A	X	N/A
D&R LTD	FL 4C	N/A	B	N/A
D. B. MILLIKEN CO.	DBM-3 4 5	N/A	B	N/A
D.J. INSTRUMENTS	21610	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-120	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-310	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-315	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-320	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-330	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-401	N/A	B	CATALOG
D.J. INSTRUMENTS	DJ-600	N/A	B	CATALOG
D.J. INSTRUMENTS	MLR	N/A	B	CATALOG
D.J. INSTRUMENTS	PC-50	N/A	B	CATALOG
D.J. INSTRUMENTS	SL-70718	N/A	B	CATALOG
D.J. INSTRUMENTS	SL-71201	N/A	X	CATALOG
DABASI	OZONE MONITOR	N/A	K	N/A
DAGE-MTI	S-600	N/A	N/A	OPERATION
DAGE-MTI	68	N/A	K	S/N'S 101-4999
DAGE-MTI	68	N/A	K	S/N'S 5000 -
DAGE-MTI	104722-03	N/A	K	SERVICE MANUAL
DAGE-MTI	66	N/A	K	N/A
DAGE-MTI	60/65/650	N/A	K	N/A
DAGE-MTI INC	GENIISYS	N/A	X	SERVICE MANUAL
DALTON	4950A	N/A	X	N/A
DALTON	L24-5M	N/A	X	N/A
DANA	195	N/A	E	2 MANUALS
DANA	2200 2000 2100	N/A	X	2 MANUALS
DANA	3400 3420	N/A	E	2 MANUALS
DANA	4800	N/A	E	INSTRUCTION
DANA	5000	N/A	X	INSTRUCTION
DANA	5500	N/A	X	INSTRUCTION
DANA	5600	N/A	X	INSTRUCTION
DANA	5800	N/A	E	INSTRUCTION
DANA	6900	N/A	X	INSTRUCTION
DANA	210/220	N/A	X	INSTRUCTION
DANA	3800/3860	N/A	E	INSTRUCTION
DANA	6000	N/A	E	MAINTENANCE
DANA	6000	N/A	X	OPERATOR'S MANUAL
DANA	5000	N/A	E	SPECIFICATION DATA
DANA	5000	N/A	E	N/A
DANA	5500	N/A	X	N/A
DANA	5600	N/A	E	N/A
DANA	5640	N/A	E	N/A
DANA	7570	N/A	F	N/A
DANA	615-A	N/A	E	N/A
DANA	8015B	N/A	L	N/A
DANIEL	1884	N/A	L	N/A
DANTEC	55H10	N/A	X	N/A
DARCY	1300	N/A	K	N/A
DATA CHECK	1200B	N/A	K	2 MANUALS
DATA CHECK	1880A	N/A	K	TECHNICAL MANUAL
DATA CHECK	1200	N/A	K	N/A
DATA CHECK CORP	1218	N/A	X	SERVICE
DATA COMMUNICATIONS	DATA CHECK 1 & 11	N/A	J	N/A
DATA CONTROL	GFT-6	N/A	J	2 MANUALS
DATA CONTROL	GFD-100	N/A	J	N/A
DATA CONTROL	GFD-13	N/A	J	N/A
DATA CONTROL	GFD-2	N/A	J	N/A
DATA CONTROL	GFD-5	N/A	J	N/A
DATA CONTROL	GMA-1	N/A	J	N/A
DATA CONTROL	GMA-100	N/A	J	N/A
DATA CONTROL	GMD-1 -2	N/A	J	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DATA CONTROL	GOV-100	N/A	J	N/A
DATA CONTROL	GST-2	N/A	J	N/A
DATA CONTROL	GST-3	N/A	J	N/A
DATA DESIGN CORP.	DG 11	N/A	X	OPERATORS
DATA DYNAMICS	5101	N/A	X	N/A
DATA DYNAMICS	5109	N/A	INSTRUCTION	N/A
DATA INTERSIL	DPP-7/Q7	N/A	X	N/A
DATA MEASUREMENTS	6275	N/A	X	3 MANUALS
DATA MEASUREMENTS	6300	N/A	E	N/A
DATA PRECISION	2000	N/A	E	CATALOG
DATA PRECISION	5740	N/A	F	CATALOG
DATA PRECISION	3000	N/A	E	INSTRUCTION
DATA PRECISION	3000	N/A	E	INSTRUCTION
DATA PRECISION	3400	N/A	E	INSTRUCTION
DATA PRECISION	3410	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	E	INSTRUCTION
DATA PRECISION	3500	N/A	X	INSTRUCTION
DATA PRECISION	3500	N/A	X	INSTRUCTION
DATA PRECISION	2480/2480R	N/A	E	INSTRUCTION
DATA PRECISION	8200	N/A	N/A	MO0827/CALIBRATOR
DATA PRECISION	8200	N/A	N/A	MO0828/CALIBRATOR
DATA PRECISION	8200	N/A	N/A	MO0829/CALIBRATOR
DATA PRECISION	8200	N/A	N/A	MO0830/CALIBRATOR
DATA PRECISION	8200	N/A	N/A	MO0831/CALIBRATOR
DATA PRECISION	8200	N/A	E	MO0832/CALIBRATOR
DATA PRECISION	2500	N/A	E	OPERATING AND MAINTENANCE
DATA PRECISION	2500	N/A	E	OPERATING AND MAINTENANCE
DATA PRECISION	3600	N/A	E	OPERATING INSTRUCTIONS
DATA PRECISION	3600	N/A	E	OPERATING INSTRUCTIONS
DATA PRECISION	3600	N/A	E	OPERATING INSTRUCTIONS
DATA PRECISION	175	N/A	E	OPERATION
DATA PRECISION	245	N/A	E	OPERATION
DATA PRECISION	245	N/A	N/A	OPERATION
DATA PRECISION	248	N/A	E	OPERATION
DATA PRECISION	258	N/A	E	OPERATION
DATA PRECISION	935	N/A	E	OPERATION
DATA PRECISION	938	N/A	E	OPERATION
DATA PRECISION	935/936	N/A	E	OPERATION
DATA PRECISION	245	N/A	E	OPERATION AND SERVICE MANUAL
DATA PRECISION	630	N/A	E	SCHEMATICS & PARTS LIST
DATA PRECISION	1750	N/A	E	SPECIFICATION DATA
DATA PRECISION	7500	N/A	E	SPECIFICATION DATA
DATA PRECISION	7500	N/A	E	SPECIFICATION DATA
DATA PRECISION	7500	N/A	E	SPECIFICATION DATA
DATA PRECISION	7500	N/A	E	SPECIFICATION DATA
DATA PRECISION	7500	N/A	N/A	SPECIFICATION DATA
DATA PRECISION	IP150/IP151	N/A	E	SPECIFICATION DATA
DATA PRECISION	V-40A/41A	N/A	O	SPECIFICATION DATA
DATA PRECISION	6100	N/A	SERVICES	USER'S MANUAL
DATA PRECISION	585	N/A	K	N/A
DATA PRECISION	3000	N/A	E	N/A
DATA PRECISION	3500	N/A	E	N/A
DATA PRECISION	3500	N/A	E	N/A
DATA PRECISION	3600	N/A	E	N/A
DATA PRECISION	5740	N/A	F	N/A
DATA PRECISION	5800	N/A	F	N/A
DATA PRECISION	6000	N/A	X	N/A
DATA PRECISION	6000	N/A	X	N/A
DATA PRODUCTS	BP-1500	N/A	E	N/A
DATA PROOF	160A/320A	N/A	N/A	OPERATORS
DATA RACE	RACE-VM SERIES	N/A	USER' S	USER'S GUIDE
DATA RACE	RACE-VM1 AND RACE-			
DATA RACE	VM11	N/A	X	USER'S GUIDE
DATA RESEARCH	W115	N/A	X	N/A
DATA ROYAL CORP.	F321A F322A	N/A	X	3 MANUALS
DATA ROYAL CORP.	F323A F324A	N/A	B	N/A
DATA SENSORS	1BA-103	N/A	B	CATALOG
DATA SENSORS	1BH-102	N/A	B	CATALOG
DATA SENSORS	1BH-103	N/A	B	CATALOG
DATA SENSORS	PB-100	N/A	B	CATALOG
DATA SENSORS	PB-1000	N/A	B	CATALOG
DATA SENSORS	PB-1301	N/A	B	CATALOG
DATA SENSORS	PB-1310	N/A	B	CATALOG
DATA SENSORS	PB-1400	N/A	B	CATALOG
DATA SENSORS	PB-300	N/A	B	CATALOG
DATA SENSORS	PB-3000	N/A	B	CATALOG
DATA SENSORS	PB-406	N/A	B	CATALOG
DATA SENSORS	PB-415	N/A	B	CATALOG
DATA SENSORS	PB-419	N/A	B	CATALOG
DATA SENSORS	PB-427	N/A	B	CATALOG
DATA SENSORS	PB-50	N/A	B	CATALOG
DATA SENSORS	PB-500	N/A	B	CATALOG
DATA SENSORS	PB-5000	N/A	B	CATALOG
DATA SENSORS	PB-519	N/A	B	CATALOG
DATA SENSORS	PB-531	N/A	B	CATALOG
DATA SENSORS	PB-923	N/A	B	CATALOG
DATA SENSORS	PBA-731	N/A	N/A	CATALOG
DATA SHIELD	SS400/SS700	N/A	N/A	OPERATION
DATA TECH. CORP.	344	N/A	E	PANEL METER
DATA TECHNOLOGY	341	N/A	E	INSTRUCTION
DATA TECHNOLOGY	344	N/A	E	INSTRUCTION

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DATA TECHNOLOGY	344	N/A	E	INSTRUCTION
DATA TECHNOLOGY	370	N/A	E	INSTRUCTION
DATA TECHNOLOGY	370	N/A	E	INSTRUCTION
DATA TECHNOLOGY	4311/4312	N/A	E	INSTRUCTION
DATA TECHNOLOGY	4411/4312	N/A	E	INSTRUCTION
DATA TECHNOLOGY	30	N/A	E	OPERATION
DATA TECHNOLOGY	340A/342/343	N/A	E	PRELIMINARY INSTRUCTION MANUAL
DATA TECHNOLOGY	DT-325	N/A	E	TECHNICAL MANUAL
DATA TECHNOLOGY	DT-326	N/A	E	TECHNICAL MANUAL
DATA TECHNOLOGY	DT-327	N/A	E	TECHNICAL MANUAL
DATA TECHNOLOGY	DVX-315	N/A	E	TECHNICAL MANUAL
DATA TECHNOLOGY	MADC15-06	N/A	X	TECHNICAL MANUAL
DATA TECHNOLOGY CORP	30	N/A	X	2 MANUALS
DATA TECHNOLOGY CORP	344	N/A	X	2 MANUALS
DATA TECHNOLOGY CORP	DVX315 OPTIONS	N/A	X	2 MANUALS
DATA TECHNOLOGY CORP	360 360B 361	N/A	X	N/A
DATA TECHNOLOGY CORP	DT 1423	N/A	X	N/A
DATA TECHNOLOGY CORP	DT 320 SERIES	N/A	X	N/A
DATA TECHNOLOGY CORP	DVX315	N/A	X	N/A
DATAMETRICS	1015	N/A	E	INSTRUCTION
DATAMETRICS	1015	N/A	E	INSTRUCTION
DATAMETRICS	1015	N/A	X	INSTRUCTION
DATAMETRICS	1015	N/A	X	INSTRUCTION
DATAMETRICS	1015	N/A	N/A	INSTRUCTION
DATAMETRICS	1400	N/A	B	INSTRUCTION
DATAMETRICS	1014A	N/A	B	INSTRUCTION
DATAMETRICS	1014A	N/A	X	INSTRUCTION
DATAMETRICS	1018-A	N/A	E	INSTRUCTION
DATAMETRICS	1018-A	N/A	E	INSTRUCTION
DATAMETRICS	1018-A	N/A	E	INSTRUCTION
DATAMETRICS	1018-A	N/A	E	INSTRUCTION
DATAMETRICS	1018-A	N/A	N/A	INSTRUCTION
DATAMETRICS	1018B	N/A	B	INSTRUCTION
DATAMETRICS	1173/1174	N/A	B	INSTRUCTION
DATAMETRICS	1173/1174	N/A	E	INSTRUCTION
DATAMETRICS	1173/1174	N/A	E	INSTRUCTION
DATAMETRICS	1173/1174	N/A	E	INSTRUCTION
DATAMETRICS	6-1018	N/A	B	INSTRUCTION
DATAMETRICS	BAR.MOD.PRES.SYS	N/A	E	INSTRUCTION
DATAMETRICS	BAROC.PRES.SYS.	N/A	L	INSTRUCTION
DATAMETRICS	MOD. PRES. SYS.	N/A	S	INSTRUCTION
DATAMETRICS	1085	N/A	E	OPERATING INSTRUCTIONS
DATAMETRICS	1102	N/A	B	OPERATING INSTRUCTIONS
DATAMETRICS	1018A	N/A	X	OPERATION AND SERVICE MANUAL
DATAMETRICS	SP-380	N/A	X	SVC MANUAL FOR MODEL SP-380 & SP-380-S
DATAMETRICS	1015	N/A	E	TRANSDUCER SYSTEM
DATAMETRICS	245	N/A	B	N/A
DATAMETRICS	511	N/A	H	N/A
DATAMETRICS	511	N/A	X	N/A
DATAMETRICS	525	N/A	B	N/A
DATAMETRICS	536	N/A	B	N/A
DATAMETRICS	590	N/A	E	N/A
DATAMETRICS	600	N/A	X	N/A
DATAMETRICS	821	N/A	L	N/A
DATAMETRICS	822	N/A	L	N/A
DATAMETRICS	825	N/A	L	N/A
DATAMETRICS	831	N/A	E	N/A
DATAMETRICS	1014	N/A	E	N/A
DATAMETRICS	1015	N/A	E	N/A
DATAMETRICS	1015	N/A	E	N/A
DATAMETRICS	1018	N/A	E	N/A
DATAMETRICS	1024	N/A	B	N/A
DATAMETRICS	1049	N/A	B	N/A
DATAMETRICS	1085	N/A	E	N/A
DATAMETRICS	1102	N/A	B	N/A
DATAMETRICS	1173	N/A	X	N/A
DATAMETRICS	1174	N/A	B	N/A
DATAMETRICS	1400	N/A	E	N/A
DATAMETRICS	1402	N/A	B	N/A
DATAMETRICS	1500	N/A	L	N/A
DATAMETRICS	1510	N/A	X	N/A
DATAMETRICS	2000	N/A	X	N/A
DATAMETRICS	1014A	N/A	E	N/A
DATAMETRICS	1015-52AL	N/A	B	N/A
DATAMETRICS	1018A-520L	N/A	E	N/A
DATAMETRICS	1173/1174	N/A	E	N/A
DATAMETRICS	1501-B	N/A	L	N/A
DATAMETRICS	700-8386	N/A	L	N/A
DATAMETRICS	DM-20	N/A	E	N/A
DATAPULSE	101	N/A	X	2 MANUALS
DATAPULSE	110B	N/A	X	2 MANUALS
DATAPULSE	P901	N/A	X	2 MANUALS
DATAPULSE	P902	N/A	X	2 MANUALS
DATAPULSE	P903	N/A	Q	2 MANUALS
DATAPULSE	100A	N/A	X	3 MANUALS
DATAPULSE	102	N/A	X	4 MANUALS
DATAPULSE	101	N/A	X	N/A
DATAPULSE	108	N/A	X	N/A
DATAPULSE	110	N/A	X	N/A
DATAPULSE	201	N/A	X	N/A
DATAPULSE	202	N/A	X	N/A
DATAPULSE	410	N/A	X	N/A
DATAPULSE	106A	N/A	X	N/A
DATAPULSE	108L	N/A	X	N/A
DATAPULSE	110A	N/A	X	N/A
DATAPULSE	202M	N/A	X	N/A
DATASOUTH	DS220	N/A	Q	MAINTENANCE MANUAL



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DATASOUTH	DS220	N/A	N/A	OPERATORS MANUAL NO SCHEMATICS
DATATAPE	TSC-2000	N/A	Q	SERVICE MANUAL
DATA-TRAK	FGE 5110	N/A	X	N/A
DATATRONICS TECH.	CHALLENGER 1200	N/A	K	USER'S MANUAL
DATAVISION (3M)	D-1032	N/A	E	N/A
DATEL	2000	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-2115	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-2115	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-31	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-3100N	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-3100U1	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-3100U1	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-350	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-4100 L/N	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-4105	N/A	E	CALIBRATION PROCEDURE
DATEL	DM-9000	N/A	E	CALIBRATION PROCEDURE
DATEL	DVC 8500	N/A	E	CALIBRATION PROCEDURE
DATEL	DVC 8500	N/A	E	CALIBRATION PROCEDURE
DATEL	DVC 8500	N/A	N/A	CALIBRATION PROCEDURE
DATEL	PC-6	N/A	Q	OPERATIONS MANUAL
DATEL	2000	N/A	E	SPECIFICATION DATA
DATEL	2000	N/A	E	SPECIFICATION DATA
DATEL	2000AR	N/A	U	SPECIFICATION DATA
DATEL	DM-3100B	N/A	E	SPECIFICATION DATA
DATEL	DM-3100N	N/A	E	SPECIFICATION DATA
DATEL	DM-3100U2-U3	N/A	E	SPECIFICATION DATA
DATEL	DM-3100U2-U3	N/A	E	SPECIFICATION DATA
DATEL	DM-4101N	N/A	E	SPECIFICATION DATA
DATEL	DM-4105	N/A	E	SPECIFICATION DATA
DATEL	DM-4200	N/A	E	SPECIFICATION DATA
DATEL	DM-4200	N/A	E	SPECIFICATION DATA
DATEL	DM-4200	N/A	E	SPECIFICATION DATA
DATEL	DL-2	N/A	X	N/A
DATEL	DM-2000	N/A	E	N/A
DATON CORP.	K-111A	N/A	E	N/A
DATRON	4000	N/A	E	CALIBRATION/SERVICE
DATRON	4000	N/A	X	CALIBRATION/SERVICE
DATRON	4000	N/A	E	USER'S MANUAL
DATUM	SCANNER	N/A	F	GOVT. SPECIFICATION
DATUM	9550-726	N/A	N/A	INSTRUCTION
DATUM	9100A	N/A	X	INSTRUCTION MANUAL
DATUM	9300-7011	N/A	X	INSTRUCTION MANUAL
DATUM	9520	N/A	N/A	INSTRUCTIONS
DATUM	9310	N/A	N/A	M00856/TIME CODE GENERATOR
DATUM	9310	N/A	X	M00857/TIME CODE GENERATOR
DATUM	9700	N/A	OPER	OPERATING
DATUM	9700	N/A	Q	OPERATORS
DATUM	9241	N/A	Q	N/A
DATUM	9241	N/A	N/A	N/A
DATUM	9310	N/A	X	N/A
DATUM	9100A	N/A	OS	N/A
DATUM	9300A	N/A	X	N/A
DATUM	TIMING INST. CAT	N/A	O	N/A
DAVIDSON OPTRONICS	D-638	N/A	O	N/A
DAVIDSON OPTRONICS	D665-105	N/A	X	N/A
DAVIES LABORATORIES	HARMONIC ANALYZ.	N/A	E	N/A
DAYTRONIC	300C/60	N/A	E	3 MANUALS
DAYTRONIC	700	N/A	E	INSTRUCTION
DAYTRONIC	700	N/A	E	INSTRUCTION
DAYTRONIC	770	N/A	E	INSTRUCTION
DAYTRONIC	770	N/A	E	INSTRUCTION
DAYTRONIC	800	N/A	G	INSTRUCTION
DAYTRONIC	300C	N/A	M	OPERATION
DBA	210	N/A	G	INSTRUCTION
DBA	210	N/A	U	INSTRUCTION
DBX	216	N/A	TECHNICAL	INSTRUCTION
DBX	192	N/A	U	SCHEMATIC AND DATA
DCA	2000 SERIES	0553505-001	E	SCHEMATICS MAINTENANCE IPB
DCA	120	40-53802-000	SCHEMATICS	SERIES 100 STATISTICAL MULTIPLEXORS
DCI	7600	N/A	TECHNICAL	OPERATION
DCL	GSA-3	650427-A	TECHNICAL	LINE DRIVING AMP
DCL	GMA	680127D	TECHNICAL	MODULE ASSY/PWR SPL
DCL	GOV-3	640304-1D	TECHNICAL	V.C.O.
DCL	GXO-1	620306-2D	TECHNICAL	XTAL OSCILLATOR
DDA	1140-1840	0552700-0000	SERVICE	FORMATTER
DDA	1140-1840	0552457-0000	SERVICE	IPB/LOGIC
DDA	1600/1700SERIES	1600-1700	OPERATOR/INSTALLATION	N/A
DDG	CACHE CARDS	V1.1 8/91	OPERATOR/INSTALLATION	INSTALLATION/USERS MANUAL
DDG	CACHE&EXPANSION	V1.2 3/92	B	INSTALLATION/USERS MANUAL
DDR-C	DDR-6000	N/A	X-Q	N/A
DEC	LC-890	N/A	X	TECHNICAL REFERENCE GUIDE
DECATUR ELECT.	715	N/A	N/A	N/A
DECOM SYSTEMS	7700	N/A	J	SERVICE
DEFENSE ELECTRONICS	D-711-C	N/A	X	3 MANUALS
DEFENSE ELECTRONICS	2100	N/A	J	N/A
DEFENSE ELECTRONICS	1301 & 1302	N/A	J	N/A
DEFENSE ELECTRONICS	1301A & 1302A	N/A	J	N/A
DEFENSE ELECTRONICS	1412 & 1432	N/A	J	N/A
DEFENSE ELECTRONICS	1671 1672 1673	N/A	J	N/A
DEFENSE ELECTRONICS	1750700-501	N/A	J	N/A
DEFENSE ELECTRONICS	200 300 & 350	N/A	J	N/A
DEFENSE ELECTRONICS	2501B	N/A	X	N/A
DEFENSE ELECTRONICS	A5 B5 C5 Q5 M5	N/A	X	N/A
DEFENSE ELECTRONICS	DCA 510	N/A	X	N/A
DEFENSE ELECTRONICS	FMD-A5	N/A	X	N/A
DEFENSE ELECTRONICS	I-711	N/A	N/A	N/A
DEFENSE ELECTRONICS	IFAE5	N/A	J	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEFENSE ELECTRONICS	PDF-1 A&B	N/A	X	N/A
DEFENSE ELECTRONICS	PS-102	N/A	J	N/A
DEFENSE ELECTRONICS	S-711-A	N/A	J	N/A
DEFENSE ELECTRONICS	SFC-1	N/A	X	N/A
DEFENSE ELECTRONICS	T-711	N/A	J	N/A
DEFENSE ELECTRONICS	T-711-F&H	N/A	J	N/A
DEFENSE ELECTRONICS	TDU-2	N/A	J	N/A
DEFENSE ELECTRONICS	TDU-4	N/A	J	N/A
DEFENSE ELECTRONICS	TMC-4&4A	N/A	J	N/A
DEFENSE ELECTRONICS	TMH5 TMR-5A	N/A	J	N/A
DEFENSE ELECTRONICS	TMH5	N/A	J	N/A
DEFENSE ELECTRONICS	TMMAS & TMMCS	N/A	J	N/A
DEFENSE ELECTRONICS	TMR 2A	N/A	J	N/A
DEFENSE ELECTRONICS	TMR 5A	N/A	X	N/A
DEFENSE ELECTRONICS	TR-711	N/A	B	N/A
DEI	ATS-1	N/A	U	N/A
DE JUR	STERORETTE	N/A	X	N/A
DELELECTRONICS	ATA 400RS	N/A	X	N/A
DELELECTRONICS	PSC30-5-1	N/A	IPB	N/A
DELL	4100D/4100T	8955	E	ILLUSTRATED PARTS MANUAL
DELMHORST	RDX-1	N/A	H	OPERATION
DELMHORST	RC-2	N/A	H	OWNER'S MANUAL
DELTA DESIGN	9023	N/A	H	INSTRUCTION MANUAL
DELTA DESIGN	9059	N/A	H	INSTRUCTION MANUAL
DELTA DESIGN	7000A	N/A	H	OPERATION
DELTA DESIGN	7000A	N/A	H	OPERATION
DELTA DESIGN	7000A	N/A	H	OPERATION
DELTA DESIGN	1810	N/A	X	OPERATION/CALIBRATION
DELTA DESIGN	MR-1	N/A	B	SCHEMATIC
DELTA DESIGN	3900	N/A	H	SERVICE
DELTA DESIGN	5900	N/A	H	SERVICE
DELTA DESIGN	MK2800	N/A	H	SERVICE
DELTA DESIGN	3000	N/A	X	N/A
DELTA DESIGN	3002	N/A	H	N/A
DELTA DESIGN	3900	N/A	H	N/A
DENTON VACUUM	DV-503-FP	N/A	SCHEMATICS	N/A
DEQ	MICROVMS	AA-FD23A-TN	OPERATOR	4.2
DEQ	PDP1 1/24	MP01018	DIAGNOSTICS	37949
DEQ	H754	CS-H754-0-1	SCHEMATICS	+20V REGULATOR
DEQ	MS780-E	MP01372	SERVICE	1 MEG BYTE PER BOARD
DEQ	KDF11-BA	EK-KDFEB-UG001	SCHEMATICS	11/23 INSTALLATION/USERS
DEQ	MS11-M	MP00742	INSTALLATION	11/44 MEMORY
DEQ	PDP1 1/44	EK-01144-IP001	PROGRAM	11/44 UNIT ASSEMBLY
DEQ	11/23+	MP01235	SCHEMATICS	11T23B
DEQ	N1100	N1100	SCHEMATICS	16 BIT SINGLE BIT COMPUTER
DEQ	400-SERIES	EK-440AB-IP-02	IPB	400-SERIES ECLOSURE IPB
DEQ	400-SERIES	EK-441AB-IP-02	IPB	400-SERIES MASS STORAGE DEVICES IPB
DEQ	MS780-H	MP01759	OPERATOR	4MEG BYTES PER BOARD-M7384
DEQ	PDP1 1/24	PDP1 1/24	TECHNICAL	5-AXIS
DEQ	660QH	EK-439AA-IP-01	IPB	660QH PEDESTAL SYSTEM IPB
DEQ	670QJ	EK-438AB-IP-02	INSTALLATION	670QJ PEDESTAL SYSTEM IPB
DEQ	H9642-D	MP-00881	SERVICE	750 EXPANDER CAB-LB
DEQ	11/23+	MP01016	SCHEMATICS	874 POWER CONTROL
DEQ	TE16	MP00333	OPERATOR	9TRACK TAPE-VAX
DEQ	TE16	EK-0TE16-IP002	SCHEMATICS	9TRACK TAPE-VAX
DEQ	TE16/10	EK-0TE16-TM001	SCHEMATICS	9TRACK TAPE-VAX
DEQ	TE16/10	EK-TAWN-OP-001	TECHNICAL	9TRACK TAPE-VAX
DEQ	VT220	EK-VT220-AN001	SCHEMATICS	ADDITIONAL FEATURES NOTICE
DEQ	PDP11	EY-1729E-VH-7	TECHNICAL	ADDRESSING MODES
DEQ	AAV11	EK-ADV11-0PO02	CATALOG	ADV11-A KVV11-A AV11-A DRV11
DEQ	VT1XX	MP-VT1XX-AB	INSTALLATION	ADVANCED VIDEO BD.
DEQ	VT1XX-AB/BB	EK-VT1AB-IN001	OPERATOR	ADVANCED VIDEO OPT.
DEQ	VT180	EK-VT180-RM001	SERVICE	ADVISORY GUIDE
DEQ	ADP SCHEDULE	ADP-AMEND1	OPERATOR	AMMENDMENT #1 TO PRICE LIST
DEQ	AP780	EK-AP780-1N002	USER GUIDE	APPENDIX C+D
DEQ	VAX11/780	EK-VAXAR-RM001	ENGINEERING	ARCHITECTURE MANUAL
DEQ	DZ32	EK-0DZ32-TM002	OPERATOR	ASYN MULTIPLEXER
DEQ	DL11	EK-0DL11-TM004	OPERATOR	ASYNCHRONOUS LINE INTERFACE
DEQ	B213F	EK-310AA-IN-01	INSTALLATION	B213F EXPANDER INSTALLATION
DEQ	B400X	EK-400AA-MG-01	SCHEMATICS	B400X EXPANDER INSTALLATION
DEQ	BA11-A	MP00832	IPB	BA11-A
DEQ	PDP 11/44	MP00832	SERVICE	BA11-A BOX ASSY
DEQ	PDP11/23	MP00487	CATALOG	BA11-N
DEQ	11/23+	MP01233	SCHEMATICS	BA11-S LOGIC BOX
DEQ	BA123	EK-188AA-MG-01	SERVICE	BA123 ENCLOSURE MAINTENANCE
DEQ	BA213	EK-189AA-MG-01	SERVICE	BA213 ENCLOSURE MAINTENANCE
DEQ	B213A	EK-254AA-IN-01	INSTALLATION	BA213A EXPANDER INSTALLATION
DEQ	BA214	EK-190AA-MG-01	SERVICE	BA214 ENCLOSURE MAINTENANCE
DEQ	BA215	EK-191AA-MG-01	SERVICE	BA215 ENCLOSURE MAINTENANCE
DEQ	BA23	EK-186AB-MG-02	SCHEMATICS	BA23 ENCLOSURE MAINTENANCE
DEQ	BA25A/B/CA/CB	MP-01415	SERVICE	BA25A BOX
DEQ	BA430/BA440	EK-348AB-MG-02	INSTALLATION	BA430/BA440 ENCLOSURE MAINTENANCE
DEQ	PDP11	DEC-11-0BUDABD	OPERATOR	BATCH-11 USER'S GUIDE
DEQ	PDP11	DEC-11-00DA-D	OPERATOR	BATCH-11/DOS-11 DEBUGGING PGM
DEQ	PDP11	DEC-11-EDDA-D	OPERATOR	BATCH-11/DOS-11 EDIT-11 TEXT EDITOR
DEQ	PDP11	DEC-11-UPUPABD	TECHNICAL	BATCH-11/DOS-11 FILE UTILITY PACKAGE
DEQ	PDP11	DEC-11-OMGRAAD	SCHEMATICS	BATCH-11/DOS-11 SYSTEM MANAGER'S GUIDE
DEQ	PDP1 1/23	MP00489	SCHEMATICS	BDV11-A
DEQ	RSX-11M	AA-5245B-TC	OPERATOR	BEGINNER'S GUIDE
DEQ	VC201	MP-01470-00	TECHNICAL	BIT MAP VIDEO CONT LB(2 COPIES)
DEQ	RM03	ER-ORM03-MP-02	IPB	BOARD LAYOUT AND WIRE LIST
DEQ	PDP11	DEC-11-LPPA-D	OPERATOR	BOOTSTRAP LOADER ABSOLUTE LOADER
DEQ	PDP1 1/23	ED27260	SCHEMATICS	BROCHURE
DEQ	PDP1 1/73	ED28497	CATALOG	BROCHURE
DEQ	PDP1 1/83	ED27712	CATALOG	BROCHURE
DEQ	PDP1 1/84	EA26076	MAINTENANCE	BROCHURE
DEQ	RM MASS BUS	EK-RMADA-TD001	SCHEMATICS	BUS ADAPTER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
DEQ		IEC11	YM-C192V-00	TECHNICAL	BUS CONTROLLER IEC
DEQ		H9502	MP00060	SCHEMATICS	CABINET ONE HIBOY-LB
DEQ		H9602-C	MP00335	SCHEMATICS	CABINET-SINGLE HIGHBOY-LB
DEQ		TEE16-0	MP00601	TECHNICAL	CABLE
DEQ		CR11/CM11	DEC-11-HCRMCD	SCHEMATICS	CARD READER
DEQ		CR11	MPOCR11-80	TECHNICAL	CARD READER CONTROL
DEQ		TA11	EK-TA11-OP-001	IPB	CASSETTE SYSTEM
DEQ		TA11	EK-TA11-MM-002	OPERATOR	CASSETTE SYSTEM
DEQ		TU77	EK-OTU77-UGCNI	TECHNICAL	CHANGE NOTICE 1
DEQ		LA34	EK-OLA34-UGCNI	IPB	CHANGE NOTICE 1
DEQ		VT125	EK-VT125-UGCNI	IPB	CHANGE NOTICE 1
DEQ		VT240	EK-VT240-RMCNI	OPERATOR	CHANGE NOTICE 1
DEQ		PDP11/23	AC-F138D-MC	DIAGNOSTIC	CJKDADMEMMNGTDIAG
DEQ		PDP11/23	AC-F141D-MC	IPB	CJKDBDO CPU DIAG
DEQ		LCP01	EK-LCP01-TM	SERVICE	COLOR PRINTING SYSTEM TECH MANUAL
DEQ		VR241-A	MP-01893-01	INSTALLATION	COLOR-GRAP
DEQ		L0016	MP01404	TECHNICAL	COMET MEMORY UNIT
DEQ		DZV11	MP00462	SCHEMATICS	COMM CONTROLLER-4 LINE ASYNC
DEQ		DHQ11	EK-DHQ11-UG-02	TECHNICAL	COMMUNICATIONS
DEQ		DMF32	EK-DMF32-TD001	OPERATOR	COMMUNICATIONS INTERFACE
DEQ		DELNI	MP01656-01	OPERATOR	COMMUNICATIONS INTERFACE LB
DEQ		LJ250/LJ252	EK-LJ250-IP-01	SCHEMATICS	COMPANION PRINTER
DEQ		LA75/LA75P	EK-OLA75-IP-03	SCHEMATICS	COMPANION PRINTER IPB
DEQ		KC 785-F	MP-01748	TECHNICAL	CONSOLE ASSY
DEQ		VAX11/780	EK-KC780-TD001	TECHNICAL	CONSOLE INTERFACE
DEQ		KC785	EK-KC785-TD001	SCHEMATICS	CONSOLE INTERFACE TECH DESC.
DEQ		VAX 8600	EY-4818E-DX-01	TECHNICAL	CONSOLE SPECIFICATIONS
DEQ		VAX 8600/8650	EK-KA86C-TD-02	DIAGNOSTIC	CONSOLE TECHNICAL DESCRIPTION
DEQ		RP05/06	EK-RP056-MM001	TECHNICAL	CONTROL LOGIC-L
DEQ		RK611	EK-RK611-TM001	SCHEMATICS	CONTROLLER TECHNICAL DESCRIPTION
DEQ		PDP11	DZQMC-C-D	TECHNICAL	CORE MEMORY DIAGNOSTIC
DEQ		PC278	EK-DM2CP-IN001	SCHEMATICS	CP/M BOARD
DEQ		DECMATE	AV-V955A-TK	OPERATOR	CP/M REFERENCE CARD
DEQ		DECMATE	BH-N853E-TV	OPERATOR	CP/M-80 V.2.1 OPERATING SYS CTRL PGM
DEQ		DECMATE	AA-DK41A-TV	OPERATOR	CP/M-80 V.21 USERS GUIDE
DEQ		RAINBOW 100	AA637ATV	OPERATOR	CPM OPERATING SYSTEM MANUAL
DEQ		RAINBOW 100	AAR223ATV	INSTALLATION	CPM86 REF MANUALS
DEQ		RAINBOW 100	AAP310ATV	OPERATOR	CPM8680 B10S LISTING
DEQ		RAINBOW 100	AAP309ATV	OPERATOR	CPM8680 SOFTWARE MANUAL
DEQ		VAX11/750	EK-KA750-TD002	TECHNICAL	CPU DESCRIPTION
DEQ		H9602-H	MP00689	PRINT SET	CPU EXPANDER-LB
DEQ		KA640	EK-KA640-TM00L	SERVICE	CPU MODULE
DEQ		KDF11-BA	MP-01236	OPERATOR	CPU MODULE PRINT SET
DEQ		VR17/VT11	325-1062-3N871	OPERATOR	CRT DISPLAY
DEQ		VR17/VT11	EK-VR14-OP005	SCHEMATICS	CRT DISPLAY
DEQ		MSC11-A	MP-01472-00	OPERATOR	CT MEMORY 128KB LB(2 COPIES)
DEQ		PDP11/23	AC-8850F-MC	SCHEMATICS	CZKMAFO MEM DIAG
DEQ		VAX	AA-K082B-TE	CATALOG	DATATRIEVE
DEQ		VAX/VMS DCL	AA-2200A-TE	PROGRAM	DCL DICTIONARY
DEQ		LA36	EK-OLA36-IP006	TECHNICAL	DEC II
DEQ		TU60	EK-TU60-OP-001	IPB	DECASSETTE TAPE TRANSPORT
DEQ		TU60	EK-TU60-MM-003	OPERATOR	DECASSETTE TAPE TRANSPORT
DEQ		TU60	MP-OTU60-00	SERVICE	DECASSETTE TAPE TRANSPORT
DEQ		CORRESPONDENT	EKCLP12-OP-001	OPERATOR	DECKWRITER
DEQ		PC278	EK-DECM2-PS001	INSTALLATION	DECMATE II
DEQ		PC278	EK-DECM2-IN001	SERVICE	DECMATE II
DEQ		PC278 CPU	MP-01492-00	SERVICE	DECMATE II
DEQ		DELQA	EK-DELOA-UG002	USER	DECNET
DEQ		VT52	EK-VT52-IP002	OPERATOR	DECScope
DEQ		2100/3100	EK-291AB-MG-002	SERVICE	DECSTATION 2100/3100 MAINTENANCE GUIDE
DEQ		LA30	DEC-00-LA30-DC	OPERATOR	DECWRITER
DEQ		LA30	325-1048-N471	SERVICE	DECWRITER
DEQ		LA120	EK-ALA12-SV001	IPB	DECWRITER 3
DEQ		LA120	EK-LA120-SV001	OPERATOR	DECWRITER 3
DEQ		LA120	MP00663	OPERATOR	DECWRITER 3
DEQ		LA120	EK-LA120-TM001	SCHEMATICS	DECWRITER 3
DEQ		LA120	EK-LA120-UG004	SCHEMATICS	DECWRITER 3
DEQ		LA120	EK-LA120-IP003	TECHNICAL	DECWRITER 3
DEQ		LS120	MP00322	SERVICE	DECWRITER 3
DEQ		LS120	EK-LS120-TM002	TECHNICAL	DECWRITER 3
DEQ		LA120	EK-LA120-RG001	OPERATOR	DECWRITER 3 REFERENCE CARD
DEQ		LA120	EK-ALA12-UG001	SERVICE	DECWRITER 3 USER GUIDE ADDENDUM
DEQ		LA34	EK-LA34S-IP003	IPB	DECWRITER IV
DEQ		LA34	EK-OLA34-UG001	OPERATOR	DECWRITER IV
DEQ		LA34	EK-LA34S-TM001	OPERATOR	DECWRITER IV
DEQ		LA34	EK-OLA34-UG002	SCHEMATICS	DECWRITER IV
DEQ		LA34	EK-LA34S-PS001	SCHEMATICS	DECWRITER IV POCKET SVC GUIDE
DEQ		LP25	REF	SEE DPC 725/730	DEQ LP25=DPC P300
DEQ		LP26	REF	TECHNICAL	DEQ LP26=DPC P600
DEQ		PDP8M	MP-PDP8M-00	CATALOG	DEOP SCHEMATICS
DEQ		VAX 3100/30	EK-259AA-UG-01	OPERATOR	DESKTOP-VMS BASIC SYSTEM GUIDE
DEQ		VAX 3100/40	EK-261AA-OM-01	SERVICE	DESKTOP-VMS MANAGEMENT GUIDE
DEQ		XXDP	XXDP	OPERATOR	DIAGNOSTIC MANUAL
DEQ		VAX11/780	EK-DS780-TD001	SEE NSCO 270	DIAGNOSTIC SYSTEM
DEQ		VAX11/780	EK-DS780-UG002	TECHNICAL	DIAGNOSTIC SYSTEM
DEQ		VAX 8600/8650	EK-KA86D-UG	OPERATOR	DIAGNOSTIC USER'S GUIDE
DEQ		DR11W	EK-DR11W-UG001	SCHEMATICS	DIRECT MEMORY INTERFACE MODULE
DEQ		RL01	MP00347	TECHNICAL	DISC
DEQ		RL11	MP00153	TECHNICAL	DISC CONTROLLER
DEQ		RLV11	MP00635	TECHNICAL	DISC CONTROLLER
DEQ		RL11	EK-ORL11-TD001	SCHEMATICS	DISC CONTROLLER TECHNICAL DESCRIPTION
DEQ		RLV11	EK-RLV11-TD001	SCHEMATICS	DISC CONTROLLER TECHNICAL DESCRIPTION
DEQ		RL01/RL02	EK-RL012-TMPRE	OPERATOR	DISC PRELIMINARY TECHNICAL MANUAL
DEQ		RL01/RL02	EK-RL012-UG004	SOFTWARE	DISC SUBSYSTEM USER'S GUIDE
DEQ		RA81	EK-ORA81-UG001	SERVICE	DISK DRIVE
DEQ		RK07	EK-ORK07-IP002	SCHEMATICS	DISK DRIVE
DEQ		RK07	MP00576	SCHEMATICS	DISK DRIVE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEQ	RL02	MP00553	IPB	DISK DRIVE
DEQ	RM03/02	EK-RM023-UG002	SERVICE	DISK DRIVE
DEQ	RM80	MP-00875	IPB	DISK DRIVE
DEQ	RM80	EK-ORM80-IP001	OPERATOR	DISK DRIVE
DEQ	RM80	EK-ORM80-SV001	SCHEMATICS	DISK DRIVE
DEQ	RM80	EK-ORM80-TD001	SERVICE	DISK DRIVE
DEQ	RK05J	RK05-0	IPB	DISK DRIVE ENGINEERING DRAWINGS
DEQ	RK05J	EK-RK05J-IP003	SERVICE	DISK DRIVE ILLUSTRATED PARTS BREAKDOWN
DEQ	RK05	DEC-00-HRK05CD	SERVICE	DISK DRIVE MAINTENANCE MANUAL
DEQ	RK05	EK-RK05-MM-004	TECHNICAL	DISK DRIVE MAINTENANCE MANUAL
DEQ	RK05/J/F	EK-RK5JF-MM001	SCHEMATICS	DISK DRIVE MAINTENANCE MANUAL
DEQ	RA81	EK-ORA81-SV001	SERVICE	DISK DRIVE SERVICE MANUAL
DEQ	RK06/RK07	EK-RK067-SV001	OPERATOR	DISK DRIVE SERVICE MANUAL
DEQ	RK06/RK07	EK-RK067-TD001	IPB	DISK DRIVE TECHNICAL DESCRIPTION
DEQ	RK06/RK07	EK-RK067-UG001	TECHNICAL	DISK DRIVE USER'S MANUAL
DEQ	RK6/7 FTB	EK-RK67F-OP001	SCHEMATICS	DISK EXERCISER OPERATION SVC MANUAL
DEQ	H3220	MP-H3220-00	SCHEMATICS	DISTRIBUTION PANEL-LB
DEQ	PDP11/23	MP00586	SCHEMATICS	DLV11J PRINTSET
DEQ	11/23+	MP00989-01	SCHEMATICS	DLVJ1
DEQ	DRV111WA	EKDRVUWV-UG001	LOGIC	DMA INTERFACE
DEQ	DRV111WA	MP01582-01	OPERATOR	DMA INTERFACE
DEQ	IEC11B	YG-C015B-00	TECHNICAL	DMA OPTION FOR IEC-11A
DEQ	MANUALS	DOC PRODUCTS	DIAGNOSTIC	DOCUMENTATION PRODUCTS
DEQ	RAINBOW 100	AAV545ATV	OPERATOR	DOCUMENTORS GUIDE
DEQ	DR11W	MP00693	INSTALLATION	DR11-W GP DMA INTERFACE
DEQ	DRS/DSS/DSP	CSS-MO-F4.315C	SCHEMATICS	DRS11/DCS11/DSP11 I/O SYS OPTN DESC
DEQ	RX50	EK-ORX50-IP-00	TECHNICAL	DUAL DISKETTE DRIVE
DEQ	RX50	MP-01482	SCHEMATICS	DUAL DISKETTE DRIVE PRINT SET(4 COPIES)
DEQ	11/23+	MP00462	SCHEMATICS	DZV11
DEQ	VAX 8600/8650	EK-KA86E-TD-01	INSTALLATION	EBOX TECHNICAL DESCRIPTION
DEQ	PCL11B	D-1A-760720601	OPERATOR	ECO LONG BOOK
DEQ	9600/8650	MP-01714-01	OPERATOR	ELEC & M-ECH DRAWINGS LB
DEQ	9600/8650	MP-01714-01	SCHEMATICS	ELEC MECH DRAWINGS
DEQ	VAX 8600/8650	EK-KA86V-TD-02	TECHNICAL	EMM TECHNICAL DESCRIPTION
DEQ	MM8E	MM8E	HANDBOOK	ENGINEERING DRAWINGS (MEMORY)
DEQ	DEQNA	EK-DEQNA-UG002	OPERATOR	ETHERNET
DEQ	RK05	EK-RK05-MM-002	SERVICE	EXERCISER MAINTENANCE MANUAL
DEQ	VT240	EK-VT240-AN-001	INSTALLATION	FEATURES NOTICE
DEQ	RK05	RK05-S-0064	SERVICE	FIELD CG ORDER
DEQ	RK05	FCOK05-00064	SERVICE	FIELD CHANGE ORDER
DEQ	LN03	LN03-I-001	MAINT. KIT GUIDE	FIELD CHANGE ORDER-UPGRADE TO LN03+
DEQ	TK50	MP25501	LOGIC	FIELD MAINT. PRINT SET
DEQ	650QS	MP-02538-01D1	IPB	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	TK50	MP-2054-01	SCHEMATICS	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	TK70	MP-02294-01	OPERATOR	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	VCB02	MP-02083-01RA1	SCHEMATICS	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	VR290	MPO-02362	OPERATOR	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	VT330	MPO2411-01	IPB	FIELD MAINTENANCE PRINT SET LONG BOOK
DEQ	11/23B	MP01234	SCHEMATICS	FIELD MAINTENANCE PRINTS
DEQ	PDP11/23	MP00740	DIAGNOSTIC	FIELD MAINTENANCE PRINTSET
DEQ	RK67/7-TA	MP00187	TECHNICAL	FIELD TSTR LONG BK
DEQ	VAX11/780	EK-FP780-TD001	INSTALLATION	FLOATING POINT
DEQ	LS111	PSS4D	TECHNICAL	FLOPPY
DEQ	RX11	MP-ORX11-00	SCHEMATICS	FLOPPY CONTROLLER
DEQ	RX01	MP-00296-00	IPB	FLOPPY DISK
DEQ	RX01	EK-RX01-IP-001	SERVICE	FLOPPY DISK
DEQ	RX01/02	EK-RX012-PS002	IPB	FLOPPY DISK
DEQ	RX02	EK-ORX02-TM001	SCHEMATICS	FLOPPY DISK
DEQ	RX02	EK-RX02-UG-001	SCHEMATICS	FLOPPY DISK
DEQ	RX02	MP-00629	SERVICE	FLOPPY DISK
DEQ	RX02	EK-ORX02-IP001	TECHNICAL	FLOPPY DISK
DEQ	RX8/11	EK-RX01-OP-001	TECHNICAL	FLOPPY DISK
DEQ	RXV11	EK-RXV11-OP001	SERVICE	FLOPPY DISK CTLR USER'S MANUAL
DEQ	RL02	RL02	SCHEMATICS	FLOPPY DISK DIAGNOSTICS
DEQ	RX01/02	EK-RX102-RC002	SERVICE	FLOPPY DISK REFERENCE CARD
DEQ	RX8/11	EK-RX01-MM-002	OPERATOR	FLOPPY DISK SYSTEM
DEQ	DECMATE	9907051-03	TECHNICAL	FLOPPY DISKS W/SOFTWARE CP/M-80
DEQ	M9312	EK-M9312-TM003	CATALOG	FOR PDP11 LB-BOOTSTRAP TERMINATOR MODUL
DEQ	VAX/FMS	AA-LS19B-TE	PROGRAM	FORM DRIVER REFERENCE
DEQ	KEF11A	MP00735	OPERATOR	FP PROC PDP-11/24 KEF11A
DEQ	FP-785	EK-FP785-TD001	SERVICE	FP-785 FLOATING POINT TECH DES.
DEQ	11/23+	MP01285	TECHNICAL	FPF11 FLOATING POINT
DEQ	KE780-A	EK-KE780-IN	SCHEMATICS	G-H FLOATING POINT
DEQ	DR11C	DEC-11-HDR CABD	SCHEMATICS	GENERAL DEVICE INTERFACE
DEQ	VAX SERIES	AA-EA87A-TE	PROGRAM	GENERAL VAX DECNET-ULTRIX
DEQ	VAX SERIES	AA-EA88A-TE	PROGRAM	GENERAL VAX DECNET-ULTRIX
DEQ	VAX SERIES	AA-EE38A-TE	PROGRAM	GENERAL VAX DECNET-ULTRIX
DEQ	VAX SERIES	BH-EA86C-TE	PROGRAM	GENERAL VAX DECNET-ULTRIX
DEQ	VAX SERIES	AA-JD71A-TE	PROGRAM	GENERAL VAX ULTRIX PROGRAMMING
DEQ	VAX SERIES	AA-BG520-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-BG53D-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-BG54D-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-BG57D-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-BG58D-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-JD76A-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-KM57A-TE	PROGRAM	GENERAL VAX ULTRIX-32
DEQ	VAX SERIES	AA-GT87A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT88A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT89A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT90A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT91A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT94A-TN	PROGRAM	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-HF07A-TN	TECHNICAL	GENERAL VAX ULTRIX-32W
DEQ	VAX SERIES	AA-GT93A-TN	PROGRAM	GENERAL VAX ULTRIX-32W GKS/OB
DEQ	VAX SERIES	AA-KK18A-TE	PROGRAM	GENERAL VAX VAXC FOR ULTRIX
DEQ	GKS	A1-HW46B-TE	PROGRAM	GRAPHICS
DEQ	MICROVMS	AI-GI08B-TN	PROGRAM	GRAPHICS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
DEQ		VT105	EK-VT105-TM001	OPERATOR	GRAPHICS TERMINAL
DEQ		VT105	EK-VT105-IP002	SCHEMATICS	GRAPHICS TERMINAL
DEQ		VT105	MP00642	TECHNICAL	GRAPHICS TERMINAL
DEQ		RAINBOW 100	AAV542ATV	OPERATOR	GUIDE FOR PRODUCING TRANSLATABLE PROD
DEQ		VAX/VMS DATATRV	AA-L631D-TE	PROGRAM	GUIDE TO GRAPHICS
DEQ		RSX-11M	AA-H264A-TC	OPERATOR	GUIDE TO PROGRAM DEVELOPMENT
DEQ		11/23+	MP01244	SCHEMATICS	H403-B
DEQ		H7140	MP00837	SCHEMATICS	H7140
DEQ		PDP 11/44	MP00837	SCHEMATICS	H7140
DEQ		H740	EK-H740D-IP003	SERVICE	H740B/DA POWER SUPPLY
DEQ		11/23+	MP01231	SCHEMATICS	H7861
DEQ		H9642-J	EK-187AA-MG-01	SERVICE	H9642-J CABINET MAINTENANCE
DEQ		H9644	EK-221AA-MG-01	INSTALLATION	H9644 CABINET MAINTENANCE
DEQ		H9644	EK-312AA-IN-01	ENGINEERING	H9644 EXPANDER INSTALLATION
DEQ		VAX/VMS DATATRV	AA-W675B-TE	INSTALLATION	HANDBOOK
DEQ		LSI1	EB20175-20	OPERATOR	HANDBOOK MICROCOMPUTER INTERFACES
DEQ		LSI1	EB20912-20	OPERATOR	HANDBOOK MICROCOMPUTERS AND MEMORIES
DEQ		PDP11	EK-FS003-IN002	SERVICE	HARDWARE ACCEPTANCE MANUAL
DEQ		KA-785	EK-11785-UG001	TECHNICAL	HARDWARE USER'S GUIDE
DEQ		RA81	EK-ORA81-UGCNI	SERVICE	HDA INSTAL
DEQ		PDP11/23C	EK-OLCP5-OM020	TECHNICAL	HOW TO USE SYSTEM
DEQ		IEC11CA	15-074	SCHEMATICS	I/O DRIVER
DEQ		PDP11	EY-1729E-VH-12	OPERATOR	I/O PROGRAMMING
DEQ		VAX 8600/8650	EK-KA861-TD-01	TECHNICAL	IBOX TECHNICAL DESCRIPTION
DEQ		IEC11A	CSS-GO-0544808	SCHEMATICS	IEC BUS CONTROLLER OPTION
DEQ		IEC11A	15-071	TECHNICAL	IEC BUS INTERFACE
DEQ		IEC11	YM-C192C-00	SCHEMATICS	IEC11 FAMILY OPTION
DEQ		IEU11-A/IEQ11-A	EK-IEUQ1-UG003	OPERATOR	IEEE UVAX
DEQ		RF71	EK-RF71X-IP001	SCHEMATICS	ILLUSTRATED PARTS
DEQ		PDP11/04	EK-04525-IP001	SERVICE	ILLUSTRATED PARTS BREAKDOWN
DEQ		PDP11/23	EK-01123-IP001	OPERATOR	ILLUSTRATED PARTS BREAKDOWN
DEQ		RA60	EK-ORA60-IP001	SERVICE	ILLUSTRATED PARTS BREAKDOWN
DEQ		RA81	EK-ORA81-IP001	OPERATOR	ILLUSTRATED PARTS BREAKDOWN
DEQ		RL02	EK-ORL02-IP002	TECHNICAL	ILLUSTRATED PARTS BREAKDOWN
DEQ		VR290	EK-VR290-IP-01	SERVICE	ILLUSTRATED PARTS BREAKDOWN
DEQ		MS750C/D	EK-MS750-IN001	TECHNICAL	INSTALLATION
DEQ		MVII	AZ-GLNAB-MN	OWNER	INSTALLATION
DEQ		VAX11/780	EK-S1780IN002	SERVICE	INSTALLATION
DEQ		PCL11B	YC-A20TC-02 B	OPERATOR	INSTALLATION MAINTENANCE
DEQ		PDP11-84	EK-1184A-TMPR2	OPERATOR	INSTALLATION AND TECH.REF.
DEQ		VAX/VMS DATATRV	AA-A556E-TE	PROGRAM	INSTALLATION GUIDE
DEQ		RF71	EK-RF71D-IM001	IPB	INSTALLATION MANUAL
DEQ		VAX4000/200	EK-432AA-IN-01	CATALOG	INSTALLATION/OPERATOR/TECHNICAL
DEQ		PDP11/23B	EK-23BMB-UG001	SERVICE	INSTALLATION/PARTS/CONFIGURATION-BA11S
DEQ		LA50	EKOLASOUG001	INSTALLATION	INSTALLING & USING LA50 PRINTER
DEQ		LQPO2	AAL662BTK	SERVICE	INSTALLING & USING LQPO2 PRINTER
DEQ		VR299	EK-VR299-IW	SERVICE GUIDE	INSTALLING AND USING THE COLOR MONITOR
DEQ		VT320	EK-VT320-UG-01	SCHEMATICS	INSTALLATION AND USE
DEQ		PDP11	EY-1729E-VH-8	INSTALLATION	INSTRUCTION SET
DEQ		RAINBOW 100	AAV546ATV	OPERATOR	INTEL SPECIFICATIONS
DEQ		DR11K	EK-DR11K-MM001	OPERATOR	INTERFACAGE USER'S GUIDE MAINT
DEQ		PDP11	EB-23144-18	OPERATOR	INTERFACE HANDBOOK
DEQ		DATACOMM OPTION	EK-CMINI-RM001	SCHEMATICS	INTERFACE PDP11/VAX
DEQ		DA11K	MP-ODA11-K0	TECHNICAL	INTERPROC BUFFER
DEQ		RAINBOW 100	AAV522ATV	INSTALLATION	INTRO TO PRGM RAINBOW 100PC
DEQ		VT102	EK-VT102-IP002	OPERATOR	IPB
DEQ		BA11-S-1	MP-01233	TECHNICAL	IPB SCHEMATICS
DEQ		KA630 CPU	EK-178AA-MG-01	TECHNICAL	KA630 SYSTEM MAINTENANCE
DEQ		KA640 CPU	EK-179AA-MG-01	SERVICE	KA640 SYSTEM MAINTENANCE
DEQ		KA650 CPU	EK-180AB-MG-02	SERVICE	KA650 SYSTEM MAINTENANCE
DEQ		KA655 CPU	EK-306AA-MG-01	SERVICE	KA655 SYSTEM MAINTENANCE
DEQ		KA660 CPU	EK-398AA-MM-01	SERVICE	KA660 SYSTEM MAINTENANCE
DEQ		KA670 CPU	EK-347AB-MG-02	SCHEMATICS	KA670 SYSTEM MAINTENANCE
DEQ		PDP 11/44	MP00812	SCHEMATICS	KD11-2 BACKPLANE ASSY
DEQ		PDP11/23	MP00734	SCHEMATICS	KDF11A CPU
DEQ		KDF11-UA	MP01028	INSTALLATION	KDF11-UA UNIBUS PROCESSOR
DEQ		11/23+	MP01223	SCHEMATICS	KEF11
DEQ		LK201	EK-LK201-IP-00	IPB	KEYBOARD
DEQ		PDP 11/44	MP00811	SCHEMATICS	KK11-B CACHE MEMORY
DEQ		KN210 CPU	EK-329AB-MG-02	SERVICE	KN210 SYSTEM MAINTENANCE
DEQ		KN220 CPU	EK-375AA-SM-01	OPERATOR	KN220 SYSTEM MAINTENANCE
DEQ		LA36	EK-LA363SOP003	SCHEMATICS	LA/36/35 DECWRITER II
DEQ		11/23+	MP01096-00	SCHEMATICS	LA100
DEQ		11/23+	MP01208-00	SCHEMATICS	LA10X-FL MULTIPLY FONT OPTION
DEQ		LA12	MP-01357-00	SERVICE	LA12 PRINTSET
DEQ		LA36	EK-LA363SOP003	ENGINEER	LA-36/35 DECWRITER II
DEQ		VAX-11 FMS	AA-N209A-TE	PROGRAM	LANGUAGE INTERFACE
DEQ		BASIC	AA-H867A-TE	PROGRAM	LANGUAGE REF MAN
DEQ		11/23+	MP00752	SCHEMATICS	LAX34
DEQ		11/23+	MP01209-00	SCHEMATICS	LAX34-JL FOREIGN CHARACTER KEY CAPS
DEQ		11/23+	MP00739	SCHEMATICS	LAX34-PL PAPER OUT OPTION
DEQ		TU81	MP-01618-00	SERVICE	LB
DEQ		H7104D	MP01021	SCHEMATICS	LB +5V PWR SUPPLY
DEQ		H7104C	MP01020	SCHEMATICS	LB 2.5V 12V PWR SUPPLY
DEQ		MM11E	DEC11-HR3B-D	SCHEMATICS	LB CORE MEMORY
DEQ		MM11E	DEC11-HR3B-E	SCHEMATICS	LB CORE MEMORY
DEQ		MM11F	DEC11-HMFA-E	SCHEMATICS	LB CORE MEMORY
DEQ		MM11F	DEC11-HMFA-D	TECHNICAL	LB CORE MEMORY
DEQ		AA11-K	MP00161	OPERATOR	LB FOUR CHANNEL DISPLAY DAC
DEQ		TM03	MP00349	IPB	LB-CONTROLLER (2 COPIES)
DEQ		PCL11VMS	YM-T021COW0	SCHEMATICS	LB-DEMONSTRATION GUIDE
DEQ		RP05/O6	EK-RP056-OP001	TECHNICAL	LB-DEVICE CONTROL LOGIC USER'S MANUAL
DEQ		RP05/O6	EK-RP056-IN001	SERVICE	LB-DISK DRIVE INSTALLATION
DEQ		AA11-K	EK-AA11K-TM001	SCHEMATIC	LB-FOUR CHANNEL DISPLAY USER MANUAL
DEQ		PCL11	YC-A20TC-01 B	SERVICE	LB-GEN INTRO CONFIG GUIDE
DEQ		DR11C	MP-ODR11-CO	SCHEMATICS	LB-GENERAL DEVICE INTERFACE
DEQ		KMC11	EK-KMC11-OPPRE	SERVICE	LB-GENERAL PURPOSE USER'S MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEQ	LK201	EK-LK201-IP001	SCHEMATICS	LB-IPB-KEYBOARD
DEQ	LK201	MP-01395	IPB	LB-KEYBOARD UNIT ASSY(2 COPIES)
DEQ	PC350	MP-01394-00	SCHEMATICS	LB-LARGE SYS UNT MOTHER BOARD (4 COPIES)
DEQ	KDF11-C	MP-01349-00	SCHEMATICS	LB-LARGE SYSTEM UNIT MOTHER BOARD
DEQ	TM1B11	MP00078	TECHNICAL	LB-MAG TAPE INTERFACE
DEQ	PCL11	B-DD-PCL11-00	INSTALLATION	LB-PARALLEL COMM LINK
DEQ	PCL11B	YC-A20TC-00 B	ENGINEERING	LB-PARALLEL COMM LINK
DEQ	PDP11	DEC-11-HR6B-D	PROGRAM	LB-PDP11 CONVENTIONS MAUNAL
DEQ	PDP11/15	DEC-11-H15A-D	TECHNICAL	LB-PDP11/15 SYSTEM MANUAL
DEQ	PDP11/20	DEC-11-HR1B-D	SCHEMATICS	LB-PDP11/20 SYSTEM MANUAL
DEQ	KP11	DEC-11-HKPA-D	TECHNICAL	LB-POWER FAIL+RESTART OPTION
DEQ	H7862-0	MP01320	SCHEMATICS	LB-POWER SUPPLY (2 COPIES)
DEQ	KY11A	DEC-11-HR7B-D	TECHNICAL	LB-PRGM'S CONSOLE
DEQ	KY11C	DEC-11-HYCA-D	SCHEMATICS	LB-PRGM'S CONSOLE
DEQ	RA60	MP-01421-00	SERVICE	LB-RA-60 DISK DRIVE ASSY SYS CONFIGUR
DEQ	KL11	DEC-11-HR4C-D	SCHEMATICS	LB-TTY CONTROL MANUAL
DEQ	H7100	MP00480	TECHNICAL	LB-VAX POWER SUPPLY
DEQ	PCL11B	YM-R034A-U0-B	TECHNICAL	LB-VMS INPUT/OUTPUT USER'S GUIDE
DEQ	LA100	EK-LA100-IP001	OPERATOR	LETTERWRITER IPB
DEQ	LP27	EK-OLP27-TM001	DIAGNOSTIC	LINE PRINTER
DEQ	VT240	MP-01395	TECHNICAL	LK201-A-1
DEQ	M8203	EK/M8203/TM/00	TECHNICAL	LOGIC DIAGRAM DIAGS
DEQ	DZQ11	M3106-0-0/A	SERVICE	LOGIC SCHEMATICS
DEQ	H742	MP-OH742-00	IPB	LONG BOOK
DEQ	H765	MP-OH765-0	SCHEMATICS	LONG BOOK
DEQ	KF11	DEC-11-HKFA	SCHEMATICS	LONG BOOK
DEQ	KMC11	MP00339	OPERATOR	LONG BOOK
DEQ	PDP11/04	MP00019	SERVICE	LONG BOOK
DEQ	REM03	MP00604	OPERATOR	LONG BOOK
DEQ	RP05/06	ER-00014-TMV02	SERVICE	LONG BOOK
DEQ	H744	MP-OH744-00	SCHEMATICS	LONG BOOK +5V REGULATOR
DEQ	H745	MP-OH745-00	SCHEMATICS	LONG BOOK -15V REGULATOR
DEQ	PDP11/05	DEC-11-H16	SERVICE	LONG BOOK CPU
DEQ	RP04/05/06	MP00086	SCHEMATICS	LONG BOOK DISK DRIVE
DEQ	FPA780	MP00565	PROGRAM	LONG BOOK FLOATING POINT ACCELERATOR
DEQ	H745	DEC-H745-IPB1	SCHEMATICS	LONG BOOK H745 REGULATOR
DEQ	MS780	MP00498	SCHEMATICS	LONG BOOK MOS MEMORY ASSEMBLY + P.S.
DEQ	KA11	DEC-11-HR2B-D	SERVICE	LONG BOOK PDP-11 PROCESSOR
DEQ	KC11/KF11/KP11	KC11	TECHNICAL	LONG BOOK PDP-11 PROCESSOR
DEQ	KC11	DEC-11-HKCB-D	SCHEMATICS	LONG BOOK PDP-11 PROCESSOR MANUAL
DEQ	H743	EK-H743-IP-001	SCHEMATICS	LONG BOOK POWER SUPPLY
DEQ	H7104 VAX11/750	EK-PS750-TD002	SCHEMATICS	LONG BOOK POWER SYSTEM
DEQ	H720	DEC-11-HR5A-D	TECHNICAL	LONG BOOK PWR SUP MTG BOX
DEQ	H720	DEC-11-HR5B-D	SCHEMATICS	LONG BOOK PWR SUP + MTG BOX
DEQ	H780	H780	OPERATOR	LONG BOOK PWR SUPPLY
DEQ	RH780	MP00499	SCHEMATICS	LONG BOOK VAX MASSBUS ADAPTOR
DEQ	H7111	MP00377	SCHEMATICS	LONG BOOK VAX TODC PWR SUPPLY
DEQ	KU780	MP00535	TECHNICAL	LONG BOOK WRITEABLE CONTROL STURE
DEQ	TM03	EK-OTM03-TM002	SCHEMATICS	LONG BOOK-MAG TAPE FORMATTER
DEQ	TM03	EK-OTM03-UG003	SCHEMATICS	LONG BOOK-MAG TAPE FORMATTER
DEQ	TM03	EK-OTM03-IP002	TECHNICAL	LONG BOOK-MAG TAPE FORMATTER
DEQ	DL11W	MP00106	SCHEMATICS	LONGBOOK
DEQ	KL11A	KL11A	SCHEMATICS	LONGBOOK
DEQ	VAX 11/785	MP-01747-00	INSTALLATION	LONGBOOK CPU
DEQ	LP100	EKLP100IN001	OPERATOR	LP100 INSTALL GUIDE
DEQ	LP100	EKLP100OP001	SCHEMATICS	LP100 OPERATOR GUIDE
DEQ	LP100	EKLP100UG001	OPERATOR	LP100 USER DOCUMENTATION PACKAGE
DEQ	DRV11-B	MP00160	SERVICE	LSI-11 DMA INTERFACE
DEQ	DLV11E	MP00460	TECHNICAL	LS11 INTERFACE
DEQ	DLV11E/F	EK-DLV11-OP001	TECHNICAL	LS11 INTERFACE
DEQ	LW100	EKLW100IN001	SCHEMATICS	LW100 INSTALL GUIDE
DEQ	LW100	EKLW100OP001	OPERATOR	LW100 OPERATOR GUIDE
DEQ	LW100	EKLW100UG001	INSTALLATION	LW100 USER DOCUMENTATION PACKAGE
DEQ	DELUA-M7521	EK-DELUA-UG002	TECHNICAL	M7521 NETWORK
DEQ	TK50	MP-2054-01	TECHNICAL	MAG TAPE
DEQ	TU77	EK-TU77-UG-001	OPERATOR	MAGNETIC TAPE TRANS
DEQ	TU77	EK-0TU77-1P004	SCHEMATICS	MAGNETIC TAPE TRANS
DEQ	TU77	EK-1TU77-TM002	OPERATOR	MAGNETIC TAPE TRANS VOL 1
DEQ	TU77	EK-2TU77-TM001	SERVICE	MAGNETIC TAPE TRANS VOL 2
DEQ	TS11A	TS11-A-001	SCHEMATICS	MAINT. PRINT SET
DEQ	KB11A/D	EK-KB11A-MM004	SCHEMATICS	MAINTENANCE
DEQ	RA60	AA-M880B-TC	SERVICE	MAINTENANCE
DEQ	VAX11/750	EK-VAXV3-HB001	TECHNICAL	MAINTENANCE
DEQ	VAX11/780	EK-VAXV2-HB002	OPERATOR	MAINTENANCE
DEQ	DMF32	EK-DMF32-RM001	TECHNICAL	MAINTENANCE ADVISORY
DEQ	PDP11/24	EK-01124-MC002	SCHEMATICS	MAINTENANCE CARD
DEQ	MICROVAX	EK-001AA-MG-00	SERVICE	MAINTENANCE GUIDE
DEQ	KD11-E/A	EK-KD11EA-MM01	OPERATOR	MAINTENANCE MANUAL
DEQ	KT11C/CD	EK-KT11C-MM005	SCHEMATICS	MAINTENANCE MANUAL
DEQ	PDP11/45-50-55	EK-11045-MM006	SCHEMATICS	MAINTENANCE MANUAL
DEQ	RA81	AA-M879B-TC	IPB	MAINTENANCE MANUAL
DEQ	DMF32	MP-00965	SCHEMATICS	MAINTENANCE PRINTS
DEQ	PDP11 RH11	RH11	TECHNICAL	MAINTENANCE PRINTS WIRE DIAGRAMS
DEQ	LA210	MP-02007-01	SERVICE	MAINTENANCE PRINTS WIRING DIGRAMS
DEQ	VAX/VMS DECCODE	AA-Z338C-TE	PROGRAM	MANAGEMENT SYSTEM
DEQ	VAX 8600/8650	EK-KA86M-TD-02	TECHNICAL	MBOX/MEMORY TECHNICAL DESCRIPTION
DEQ	RSX11MPLUS	AA-H263A-TC	OPERATOR	MCR OPERATIONS MANUAL
DEQ	MS820-AA/BA	EK-MS82B-UG-00	SCHEMATICS	MDS MEMORY
DEQ	PDP11	EY-1729E-VH-6	OPERATOR	MEMORY + ADDRESSING
DEQ	MS780-EC/ED	EK-MS78E-IN001	SCHEMATICS	MEMORY ASSEMBLIES
DEQ	RAINBOW 100	EK-PCMXE-IN003	OPERATOR	MEMORY EXTENTION OPTION
DEQ	CI-MV	REF	SCHEMATICS	MEMORY INSTALLATION
DEQ	VX-11/780 1-2MB	210-040-550	DIAGNOSTIC	MEMORY INSTALLATION
DEQ	MS11-A/B/C	EK-MS11A-MM006	SCHEMATICS	MEMORY MAINTENANCE
DEQ	MS780-E/F	EK-MS78E-RM001	INSTALLATION	MEMORY OPTION
DEQ	MSV11	EK-MSV1D-OP001	DIAGNOSTICS	MEMORY USER'S MANUAL
DEQ	VAX 2000	EK-MVXAB-IG-002	OPERATOR	MICRO VAX 2000

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEQ	PDP11/44	EY-C3012-RB001	SERVICE	MICROCODE+WIRE LISTING
DEQ	M8207	EK-M8207-TM002	SCHEMATICS	MICRODIAGS / CIRCUIT DESCRIPTIONS
DEQ	RD53	101420-016	SCHEMATICS	MICROPOLIS SERVICE MANUAL
DEQ	MICROVAX	EK-192AD-MG-04	SERVICE	MICROSYSTEM OPTIONS
DEQ	RT VAX 1000	EK-128AA-MG	OPERATOR	MICROVAX
DEQ	VAX2000	EK-MVXAA-TS-001	OPERATOR	MICROVAX 2000
DEQ	VAX2000	EK-MVXAA-OP-001	SERVICE	MICROVAX 2000
DEQ	VAX2000	EK-MVXAA-CS-001	TECHNICAL	MICROVAX 2000
DEQ	VAX2000	EK-MVXAA-TM-001	TECHNICAL	MICROVAX 2000
DEQ	3XXX	EK-159AA-UD-00	IPB	MICROVAX 3
DEQ	MDM	AA-FNTAF-DN	OPERATOR	MICROVAX DIAG MONITOR ETHERNET SERVER
DEQ	MDM	AA-PK29A-TE	OPERATOR	MICROVAX DIAGNOSTIC MONITOR RELEASE NOTES
DEQ	MDM	AA-FM7AE-DN	SERVICE	MICROVAX DIAGNOSTIC MONITOR USERS GUIDE
DEQ	3500/3600	EK-159AA-UD-01	SERVICE	MICROVAX DIAGNOSTICS UPDATE
DEQ	RA80	AA-M186B-TC	SCHEMATICS	MINI MAINTENANCE GUIDE
DEQ	RA81	AA-M879B-TC	TECHNICAL	MINI MAINTENANCE GUIDE
DEQ	UDA50	AA-M185B-TC	OPERATOR	MINI MAINTENANCE GUIDE
DEQ	VR 241-A	EK-V241E-PS001	SCHEMATICS	MINI MAINTENANCE MANUAL
DEQ	RSX-11M	AA-H262A-TC	PROGRAM	MINI-INDEX
DEQ	MICROVAX	AA-FM7AB-DN	SERVICE	MONITOR
DEQ	VR201	EK-VR201-IP003	IPB	MONITOR
DEQ	VR201	MP-01410-00	SCHEMATICS	MONITOR ^6ASSEMBLY
DEQ	VR201	MP-01410-00	SCHEMATICS	MONITOR ASSY. LB(2 COPIES)
DEQ	VR201	EK-VR201-IP-00	IPB	MONOCHROME MONITOR
DEQ	MS11-L	MP00672	OPERATOR	MOS MEMORY
DEQ	PDP/11/44	EK-MS11M-TM001	OPERATOR	MOS MEMORY
DEQ	MS11	EK-MS11M-TM001	TECHNICAL	MOS MEMORY TECH MANUAL
DEQ	MS11-L	EK-MS11L-UG001	SCHEMATICS	MOS MEMORY USER'S GUIDE
DEQ	PDP11/23	MP00566	DIAGNOSTIC	MSV11 MOS MEMORY
DEQ	DZ32	EK-ODZ32-UG002	SCHEMATICS	MULTIPLEXER
DEQ	VAX 3100	EK-295AA-GD-01	IPB	NETWORK GUIDE
DEQ	VT278	N/A	SCHEMATICS	OPERATOR
DEQ	LP100	EKLP100RC001	OPERATOR	OPERATOR & PRGM REF CARD
DEQ	MM11-S	EK-MM11S-OP-001	TECHNICAL	OPERATOR MANUAL
DEQ	KC780	EK-KC780-IN001	SCHEMATICS	OPTIONS HARDWARE INSTALLATION MANUAL
DEQ	TK70	EK-TK70-OM-001	SCHEMATICS	OWNERS MANUAL
DEQ	VAX3100/30	EK-265AA-OM-001	OPERATOR/TECHNICAL	OWNERS MANUAL
DEQ	3500	EK-171AA-OW001	SERVICE	OWNERS MANUAL BA213 ENCLOSURE
DEQ	3200	EK-154AA-OW001	INSTALLATION	OWNERS MANUAL BA23 ENCLOSURE
DEQ	PC278	EK-DECM2-OM003	INSTALLATION	OWNER'S MANUAL DECMATE II
DEQ	MICROVAXIII620QY	AZ-FE05A-TN	OPERATOR	OWNERS/INSTALLATION
DEQ	MICROVAXIII630QB	AZ-FE08A-TN	TECHNICAL	OWNERS/INSTALLATION
DEQ	PC350/380	PC350	INSTALLATION	P/OS SOFTWARE TROUBLESHOOTING
DEQ	PC04/05	MPOPC04-05	SERVICE	PAPER TAPE RDR/PUNCH
DEQ	PC04/PC05	DEC-00-PC0A-D1	SCHEMATICS	PAPER TAPE RDR/PUNCH (2 COPIES)
DEQ	DRV11-WA	EK-DRV11-JUG-022	GEN PURP	PARALLEL LINE INTERFACE
DEQ	VT180	5415152-AADBP1	INSTALLATION	PARTS LIST
DEQ	VT320	MP02509-01	SERVICE	PARTS LIST
DEQ	LPS40	EK-LPS40-IP-003	INSTALLATION	PARTS MANUAL
DEQ	VAX PASCAL	AA-H485D-TE	PROGRAM	PASCAL
DEQ	VAX PASCAL	AA-L369B-TE	PROGRAM	PASCAL
DEQ	VAX-11	AA-H485C-TE	INSTALLATION	PASCAL
DEQ	VAX-11	AA-H484C-TE	OPERATOR	PASCAL
DEQ	VAX-11	AA-J180B-TE	OPERATOR	PASCAL
DEQ	VAX-11	AA-J181C-TE	OPERATOR	PASCAL
DEQ	TU80	EK-OTU80-SV002	TECHNICAL	PATHFINDER
DEQ	TU81	EK-TUA81-SU003	SCHEMATICS	PATHFINDER
DEQ	RAINBOW 100	AAV523ATV	OPERATOR	PC100 SYSTEM MODULE SPECIFICATION
DEQ	RAINBOW 100	AAP308ATV	OPERATOR	PC100 SYSTEM SPECIFICATION
DEQ	PC278	MP-01492-00	INSTALLATION	PC278 DECMATE II CPU (2 SETS)
DEQ	PDP11	DEC11XBPMA-B-D	OPERATOR	PDP-11 BASIC PROGRAMMING MANUAL
DEQ	PDP11	DEC-11-L1PA-LA	OPERATOR	PDP-11 BOOTSTRAP LOADER
DEQ	PDP11	EY-1729E-VH-12	OPERATOR	PDP11 FAMILY
DEQ	PDP11	DEC-11-RVWA-D	OPERATOR	PDP-11 FILEDUMP UTILITY PGM
DEQ	PDP11	DEC-11-LFOAACD	OPERATOR	PDP-11 GETTING FORTRAN ON THE AIR
DEQ	PDP11	DEC-11-XPTSABD	OPERATOR	PDP-11 PAPER TAPE SOFTWARE HANDBOOK
DEQ	PDP11	DEC-11XPTSAAAD	DIAGNOSTIC	PDP-11 PAPER TAPE SOFTWARE PROGRAMMING
DEQ	PDP11	EB28783	OPERATOR	PDP-11 SOFTWARE HANDBOOK
DEQ	DL11W	EK-DL11W-OP001	SCHEMATICS	PDP11/44 SLU/RTC
DEQ	BASIC	AA-L335A-TK	USER	PDP11/VAX/VMS
DEQ	PDP8/I/L	F-9	SCHEMATICS	PDP8 HANDBOOK
DEQ	KL8E	MP-00KL8E 0	INSTALLATION	PDP8 TTY INTERFACE
DEQ	PDP8/E	MP-00KL8E-EO	TECHNICAL	PDP8 TTY INTERFACE
DEQ	PDP8/L	C-9	TECHNICAL	PDP8/L USER'S HANDBOOK
DEQ	H740D	DEC-11-H740AAD	OPERATOR	PDP8-M PWR SUPPLY
DEQ	PDP11	EB-20443-20	SERVICE	PEPIPERALS HANDBOOK
DEQ	VAX/11	EB-20443-20/81	OPERATOR	PERIPHERALS
DEQ	VAX 3100	EK-286AA-PC-01	OPERATOR	PLANNING AND PREPARATION
DEQ	DZQ11	EK-DZQ11-MC-01	OPERATOR	POCKET GUIDE
DEQ	LQPO2	EK-LQPO2-PS001	SCHEMATICS	POCKET GUIDE
DEQ	RL01/02	EK-RL012-PG003	TECHNICAL	POCKET GUIDE
DEQ	VAX/VMS DATATRV	AA-P864D-TE	PROGRAM	POCKET GUIDE
DEQ	VT180	EK-VT18X-PS002	SERVICE	POCKET GUIDE
DEQ	VT-240	EK-VT240-PS-02	OPERATOR	POCKET GUIDE
DEQ	RA60	AA-M880A-TC	OPERATOR	POCKET MAINTENANCE GUIDE
DEQ	TU78	EK-OTU78-P5	SERVICE	POCKET REF. GUIDE CELCO SYSTEM
DEQ	LA100	EK-LA100-PS002	OPERATOR	POCKET SERVICE GUIDE
DEQ	LA34	EK-LA345-PS001	OPERATOR	POCKET SERVICE GUIDE
DEQ	LA75/LA75P	EK-OLA75-PS-02	IPB	POCKET SERVICE GUIDE
DEQ	LJ250/LJ252	EK-LJ250-PS-01	IPB	POCKET SERVICE GUIDE
DEQ	RAINBOW 100	EK-PC100-PS001	OPERATOR	POCKET SERVICE GUIDE
DEQ	TU80	EKOTU80PS001	TECHNICAL	POCKET SERVICE GUIDE
DEQ	TU81	EK-OTU81-PS	TECH	POCKET SERVICE GUIDE
DEQ	VT180	EK-VT18X-PS002	OPERATOR	POCKET SERVICE GUIDE
DEQ	VT220-002	EK-VT220-PS002	IPB	POCKET SERVICE GUIDE
DEQ	VT320	EK-VT320-PS001	OPERATOR	POCKET SERVICE GUIDE
DEQ	861	EK-861AB-MM002	SCHEMATICS	POWER CONTROLLER

## Exhibit D GFE Manuals

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
DEQ		874	MP01016	SCHEMATICS	POWER CONTROLLER
DEQ		875	MP01022	SCHEMATICS	POWER CONTROLLER
DEQ		861A-F	EK-00861-1P005	SCHEMATICS	POWER CONTROLLER
DEQ		H740	MP-H740-D	IPB	POWER SUPPLY
DEQ		H740D	EK-H740D-OP001	SCHEMATICS	POWER SUPPLY
DEQ		H7441	MP-00271	IPB	POWER SUPPLY
DEQ		H777-0	MP00016	SCHEMATICS	POWER SUPPLY VOL 1
DEQ		H777-0	MP00309	SCHEMATICS	POWER SUPPLY VOL 2
DEQ		11/34A	EK-1134A-TM003	SCHEMATICS	POWER SUPPLY DESCRIPTION
DEQ		VAX11/780	EK-PS780-TD001	INSTALLATION	POWER SYSTEM
DEQ		LA50	EKOLA50RM002	INSTALLATION	PRGM'S REF MANUAL
DEQ		ACC+SUPP GROUP	RLSPB	SERVICE	PRICE LIST
DEQ		ADP SCHEDULE	GS-00C-02943	CATALOG	PRICE LIST
DEQ		KW11K	MP00048	OPERATOR	PRINT SET
DEQ		TU77	MP00644	TECHNICAL	PRINT SET
DEQ		VR260	MP-02004-01	IPB	PRINT SET
DEQ		LN03	EK-0LN03-PS	SEE RIA 710	PRINTER
DEQ		LQP02	MP00953-00	INSTALLATION	PRINTER
DEQ		LQP02	ER-LQP02-TM001	POCKET SERVICE	PRINTER
DEQ		LQP02	MP00953-00	PROGRAM	PRINTER
DEQ		LQP02	EK-LQ2HL-RC001	SERVICE	PRINTER
DEQ		LQP02	EK-LQP02-RM001	TECHNICAL	PRINTER
DEQ		11/34A	MP-00190	TECHNICAL	PRINTSET
DEQ		872	MP00865	SCHEMATICS	PRINTSET-LONG BOOK
DEQ		BA11-L	MP0018	IPB	PRINTSET-LONG BOOK
DEQ		LAX34-SL	MP00738	TECHNICAL	PRINTSET-LONG BOOK
DEQ		RK07/RK611	MP01027	OPERATOR	PRINTSET-LONG BOOK
DEQ		RM80/RGM80	MP01031	SCHEMATICS	PRINTSET-LONG BOOK
DEQ		PDP11	EY-1729E-VH-4	OPERATOR	PRIORITY CONTROL
DEQ		PDP 11/44	PDP 11/44	SCHEMATICS	PROCEDURE FOR COPYING DIAGS TO TU58
DEQ		PDP11	EB-19402-20/82	OPERATOR	PROCESSOR HANDBOOK
DEQ		PDP11	EY-1729E-VH-5	OPERATOR	PROCESSOR ORGANIZATION
DEQ		LA100	EKLA100RG001	SERVICE	PROGRAMMER REF MANUAL
DEQ		LA12	EK-CPL12-RM001	INSTALLATION	PROGRAMMER REFERENCE MANUAL
DEQ		LA75	EK-OLA75-RM-02	SERVICE	PROGRAMMER REFERENCE MANUAL
DEQ		LA100	EKLA100RM001	SCHEMATICS	PROGRAMMERS REF MANUAL
DEQ		VT240	EK-VT240-RM001	TECHNICAL	PROGRAMMER'S REFERENCE
DEQ		VAX/VMS DATATRV	AA-P863C-TE	PROGRAM	PROGRAMMING AND CUSTOMIZING
DEQ		XXDP&DEC/X11	EK-0XXDP-MC001	B	PROGRAMMING CARD
DEQ		861	EK-861AB-OP001	SERVICE	PWR CNTRLR AIRLAB
DEQ		H780C	EK-H780C-OP002	SCHEMATICS	PWR SUP
DEQ		H720	H720	ENGINEERING	PWR SUP MTG BOX
DEQ		KDA50	EK-KDA50-UG004	SERVICE	QBUS DISK CONTROLLER
DEQ		RK05	RK05-TA	SCHEMATICS	R/W POSITIONER TESTER
DEQ		R215F	EK-317AA-IN-01	SERVICE	R215F EXPANDER INSTALLATION
DEQ		R215F	EK-271AB-MG-02	SERVICE/INSTALLATION	R215F EXPANDER MAINTENANCE
DEQ		R400X	EK-349AA-MG-01	USER GUIDE	R400X EXPANDER INSTALLATION AND MAINT
DEQ		PC100	MP-01491-00	IPB	RAINBOW
DEQ		PC100	EK-SB100-IP-00	IPB	RAINBOW 100 SYSTEM UNIT
DEQ		VR 201	MP-01410-00	SERVICE	RAINBOW DISPLAY
DEQ		RX50	MP-01482	IPB	RAINBOW FLOPPY DISK
DEQ		RX50	MP-01482	IPB	RAINBOW FLOPPY DISK (RX50)
DEQ		LK 201	MP-1395	IPB	RAINBOW KEYBOARD
DEQ		CP/M	AV-M085D-TV	OPERATOR	READ ME FIRST
DEQ		RAINBOW 100	AVV525ATV	OPERATOR	RECOMMENDED SOFTWARE PRACTICES
DEQ		BASIC	AA-L334A-TK	REF	REFERENCE
DEQ		VAX/VMS DATATRV	AA-K079E-TE	PROGRAM	REFERENCE
DEQ		VAX/VMS DECCODE	A1-2340C-TE	INSTALLATION	REFERENCE
DEQ		LA12	EK-CPL12-RC001	PROGRAM	REFERENCE CARD
DEQ		LA34	EK-OLA34-RG001	OPERATOR	REFERENCE CARD
DEQ		LPS40	EK-LPS40-RC-002	ILLUSTRATED PARTS	REFERENCE CARD
DEQ		TK70	EK-0TK70-RC-001	SERVICE	REFERENCE GUIDE
DEQ		VAX/VMS PASCAL	A1-L369C-TE	OPERATOR	REFERENCE MANUAL
DEQ		CP/M VT180	82-VT180	DIAGNOSTIC	REFERRAL CATALOG
DEQ		VAX/VMS DATATRV	AA-EA18F-TE	PROGRAM	RELEASE NOTES
DEQ		KC750	EK-KC750-TM002	TECHNICAL	REMOTE DIAG VAX
DEQ		KC750	EK-KC750-IN001	INSTALLATION	REMOTE DIAG VAX OPTIONS INSTALLATION
DEQ		VAX/VMS DATATRV	AA-P862C-TE	PROGRAM	REPORTS
DEQ		RK611	MP00105	SCHEMATICS	RK06 CONTROLLER
DEQ		11/23+	MP00553	SCHEMATICS	RL02 DISK DRIVE ILLUSTRATED PARTS BREAK
DEQ		11/23+	MP01332	SCHEMATICS	RL02/MOUNTING AND CARTRID
DEQ		DRV-11J	MP00886	SCHEMATICS	RL211-BK LB
DEQ		11/23+	MP01282	SCHEMATICS	RLV12
DEQ		VT18X/VT180	EK-VT18X-INC2	SCHEMATICS	ROM CHANGE
DEQ		BM792	DEC-11-HBMA-D	SEE CHN 500	ROM/LONG BOOK
DEQ		PC278	EK-DM212-IN001	SCHEMATICS	RX01 RX02 FLOPPY DISK CONTROLLER
DEQ		RX50	EK-ORX50-IP001	SCHEMATICS	RX50 DUAL DISKETTE DRIVE-ILLUSTRATED PA
DEQ		PC278	EK-DM250-IN001	SCHEMATICS	RX50 FLOPPY DISK DRIVE
DEQ		RZ55	EK-RZ55D-SV-001	SERVICE	RZ55 DISK DRIVE SUBSYSTEM
DEQ		PDP-11/84	EA-26076-41	TECHNICAL	SALES BROCHURE
DEQ		LA38-GA/AA	MP-00754	SCHEMATICS	SAME AS LA34
DEQ		VAX 8600/8650	EK-DB86X-TD-02	TECHNICAL	SBIA TECHNICAL DESCRIPTION
DEQ		PDP 8/L	PDP 8/L	TECHNICAL	SCHEMATICS
DEQ		V5240	MP0159700	IPB	SCHEMATICS(2 COPIES)
DEQ		TRAINING	EY-DX002-RB001	OPERATOR	SELF-PACED COURSES
DEQ		RM80	EK-ORM80-VG-002	SCHEMATICS	SER MANUALS SCHEM. PINOUT
DEQ		TU80	EK-OTU80-TM002	SCHEMATICS	SERVICE
DEQ		PC350	EKPC350PS001	TECHNICAL	SERVICE POCKET GUIDE
DEQ		PC350	MP01418	SOFTWARE INSTALLATION	SERVICE SCHEMATICS
DEQ		MVII	AZ-GLFAB-MN	OPERATOR	SERVICE DIAGNOSTIC-INSTALLATION
DEQ		3000	EK-FLSPC-SV	INSTALLATION	SERVICE FOR 600/600S AXP AND 800/800S AXP
DEQ		MICROVAXII630QB	AZ-FE09A-TN	PROGRAM	SERVICE HANDBOOK
DEQ		AD11-K	AD11-K-1	SCHEMATICS	SERVICE MANUAL
DEQ		DRV11-J	MP00866	OPERATOR	SERVICE MANUAL
DEQ		LPS40	EK-LPS40-SV-002	REFERENCE	SERVICE MANUAL
DEQ		PDP11/05	DEC-11-HOSAA-B-D	SCHEMATICS	SERVICE MANUAL
DEQ		PDP11/05	PDP11/05-0	SCHEMATICS	SERVICE MANUAL



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
DEQ		RA60	EK-ORA60-SV001	SCHEMATICS	SERVICE MANUAL
DEQ		UDA50	EK-UDA50-SV002	OPERATOR	SERVICE MANUAL
DEQ		LQP03	EKLQP03-PS-001	PROGRAM	SERVICE MANUAL FOR LQP03 PRINTER
DEQ		RL01/02	EK-RL122-TM001	TECHNICAL	SERVICE PROCEDURES VOL II
DEQ		LN03	REF	SEE DPC 752	SERVICE SCHEMATICS IPB
DEQ		RA81	MP01359	SERVICE	SHIP CONFIG LONG BOOK
DEQ		PC278	MP-01415	INSTALLATION	SMALL SYSTEM ENCLOSURE
DEQ		VAX	EB-20585-20	OPERATOR	SOFTWARE HANDBOOK
DEQ		DEQNA	M7504-DOC-001	OPERATOR/INSTALLATION	SOFTWARE NOTES FOR REV E AND ABOVE
DEQ		PDP11	VOLUME 2 #7	DIAGNOSTIC	SOFTWARE PERFORMANCE SUMMARY
DEQ		PDP11	VOLUME 2 #6	OPERATOR	SOFTWARE PERFORMANCE SUMMARY
DEQ		DECMATE II	DCM2	SCHEMATICS	SOFTWARE USER'S MANUAL
DEQ		PDP11	AA-3341C-TC	TECHNICAL	SORT REFERENCE MANUAL
DEQ		MICROVAX	EK-181AA-MG-01	DIAGNOSTICS	SPECIAL SYSTEMS MAINTENANCE
DEQ		TK70	EK-OTK70-SM001	OPERATOR	STREAMING TAPE DRIVE SUBSYSTEM
DEQ		MICROVAX II	EY-5238E-SG-01	SCHEMATICS	STUDENT GUIDE
DEQ		PDP11	EY-1729E-VH-1	OPERATOR	STUDENT GUIDE
DEQ		MICROVAX	AZ-GM3AA-MN	INSTALLATION	STUDENT MAINTENANCE GUIDE
DEQ		PDP 11/44	EY-C3089-WB-01	SCHEMATICS	STUDENT WORK BOOK
DEQ		PDP11/VAX	EB27713	DIAGNOSTIC	SUPERMICROSYSTEMS HANDBOOK
DEQ		PDP11	EY-1729E-VH-10	OPERATOR	SUPPLEMENTARY PROG.+ CONSOLE EXER.
DEQ		DMR11	MP00911	OPERATOR	SYNC CONTROLLER
DEQ		DMR11	EK-DMR11-UG002	TECHNICAL	SYNC CONTROLLER
DEQ		RT11	AD-5284C-T1	OPERATOR	SYS MSG MANUAL UPDATE MESSAGE #1
DEQ		PDP11/44	MP00809	IPB	SYSTEM
DEQ		PDP11/44	MP00809	TECHNICAL	SYSTEM BLOCK DIAGRAM
DEQ		VAX 8600/8650	EK-KA86S-TD-02	TECHNICAL	SYSTEM DESCRIPTION AND PROC OVERVIEW
DEQ		MICROVAX	EK-431AB-IN-02	SERVICE	SYSTEM EXPANSION INSTALLATION SUPPLEMENT
DEQ		VAX 8600186580	EK-8600H-UG-02	SERVICE	SYSTEM HARDWARE USER'S GUIDE
DEQ		VAX 8600/8650	EK-86001-1N-02	TECHNICAL	SYSTEM INSTALLATION MANUAL
DEQ		VAX11/780	EK-SI780-IN001	TECHNICAL	SYSTEM INSTALLATION MANUAL
DEQ		PDP11/784	EK-1184A-MGPR2	TECHNICAL	SYSTEM MAINTENANCE GUIDE
DEQ		VAX 86XX	EK-86XV1-MG	PROGRAM	SYSTEM MAINTENANCE GUIDE
DEQ		RT11	AA-5284C-TC	OPERATOR	SYSTEM MESS^6AGE MANUAL
DEQ		PDP11	EY-1729E-VH-2	CATALOG	SYSTEM OVERVIEW
DEQ		PDP11/24	EK-11024-TM001	SCHEMATICS	SYSTEM TECH M^6ANUAL
DEQ		LPA11-K	DEQ-LPA11-K	OPERATOR	SYSTEM TEST
DEQ		PDP11	ED-24064-18	OPERATOR	SYSTEMS OPTIONS CATALOG
DEQ		VAX	ED-24300-18	CATALOG	SYSTEMS OPTIONS CATALOG
DEQ		PDP11/23C	EK-MIC11-OM001	OPERATOR	SYSTEMS OWNER MANUAL
DEQ		TU80	EK-OTU80-IP001	OPERATOR	TAPE DRIVE
DEQ		TK50	EK-OTK50-UG004	SCHEMATICS	TAPE DRIVE SUBSYSTEM
DEQ		TU81	EK-OTU81-IP002	SERVICE	TAPE UNIT
DEQ		TU81	EK-TUA81-TM002	IPB	TAPE UNIT TECH MANUAL
DEQ		RSX11MPLUS	AA-H266A-TC	SERVICE	TASK BUILDER MANUAL
DEQ		VAX11/780	EK-MM780-TD001	TECHNICAL	TB-CACHE AND SBI
DEQ		DECMATE	EK-VT278-TD-01	OPERATOR	TECH DESCRIPTION
DEQ		DEQNA	EK-DEQNA-UG-01	OPERATOR	TECH DESCRIPTION
DEQ		DZQ11	EK-DZQ11-TM-01	LOGIC	TECH DESCRIPTION
DEQ		RD52-A	EK-RD52A-TD-01	SERVICE	TECH DESCRIPTION
DEQ		RQDX1	EK-RQDX1-UG-01	OPERATOR	TECH DESCRIPTION
DEQ		RX50-D	EK-LEP01-OM-01	OPERATOR	TECH DESCRIPTION
DEQ		DHV11 M3104	EK-DHV11-TM-002	TECHNICAL	TECH MANUAL M3104-DHV11
DEQ		PDP11/23C	EK-OLCP5-TM002	SERVICE	TECH MANUAL MICRO/PDP11 SYSTEM
DEQ		RAINBOW 100	QV053GZ	OPERATOR	TECHNICAL DESCRIPTION VOL 1
DEQ		RL01/02	EK-RL121-TM001	SERVICE	TECHNICAL DESCRIPTION VOL I
DEQ		RAINBOW 100	QV054GZ	TECHNICAL	TECHNICAL DOCUMENTATION VOL 2
DEQ		RAINBOW 100	QV055GZ	SERVICE	TECHNICAL DOCUMENTATION VOL 3
DEQ		VT240	FA-04568-01	INSTALLATION	TECHNICAL FCO
DEQ		VR290	FB-VR290-00	SERVICE	TECHNICAL IPB SCHEMATICS
DEQ		KC750	EK-KC750-TM-CN1	INSTALLATION	TECHNICAL MANUAL
DEQ		MM115	EK-MM115-TM-004	TECHNICAL	TECHNICAL MANUAL
DEQ		VT100	MP00633	IPB	TERMINAL
DEQ		VT100	EK-VT100-IP004	USER	TERMINAL
DEQ		VT100 SERIES	EK-VT100-TM002	SCHEMATICS	TERMINAL
DEQ		DS120	NPN-DATU	SCHEMATICS	TERMINAL CONTROLLER
DEQ		RAINBOW 100	AAP696ATV	OPERATOR	TERMINAL EMULATION MANUAL
DEQ		VT100 SERIES	EK-VT100-J1003	TECHNICAL	TERMINAL POCKET SERVICE GUIDE
DEQ		TERMINAL/DCOM	EB-20752-20	CATALOG	TERMINALS AND COMMUNICATIONS HANDBOOK
DEQ		TERMINALS	EB-23909-54	IPB	TERMINALS AND PRINTERS
DEQ		PC350	EKPC350TM001	SCHEMATICS	THEORY OF OPERATION
DEQ		TK50	EK-OTK50-TM-002	OPERATOR	TK50 SUBSYSTEM TECH MANUAL
DEQ		TK50	EK-LEP05-IP-001	OPERATOR	TK50-D/R IPB
DEQ		VAX 8600	EY-4818E-PP-01	TECHNICAL	TRAINING PRINT SET
DEQ		KA-785	EK-MM785-TD001	SCHEMATICS	TRANS BUFFER CACHE SBI CONT.
DEQ		VRT19-DA/D3/D4	ER-VRT19-SM-002	SCHEMATICS	TROUBLESHOOTING/ADJUSTMENTS/SCHEMATICS
DEQ		TU78/TM78	EK-TUA78-IP-00	IPB	TU78 PARTS BREAKDOWN
DEQ		DWBUA	EK-DWBUA-TM-00	SERVICE	UNIBUS ADAPTER
DEQ		UDA50	MP-01331	SERVICE	UNIBUS ADAPTOR
DEQ		PDP11	EY-1729E-VH-3	OPERATOR	UNIBUS CONCEPTS
DEQ		IEC11B	YG-C01SC-00-A	OPERATOR	UNIBUS DMA OPTION
DEQ		H9652-M	MP01376	INSTALLATION	UNIBUS EXPANDER CABINET LONG BOOK
DEQ		PDP11	EB26077	OPERATOR	UNIBUS PROCESSOR HB 11/84 11/44 11/24
DEQ		PDP-11	EB-26077-41	CATALOG	UNIBUS PROCESSOR HB 11/84 11/44 11/24
DEQ		H7441	MP00271	SCHEMATICS	UNIT ASSY
DEQ		VT18X	EK-VT18X-PG002	INSTALLATION	UNPACKING GUIDE
DEQ		VT18X	EK-VT18X-IN002	INSTALLATION	UPGRADE & TEST
DEQ		PDP11	EY-1729E-VH-9	OPERATOR	USE OF THE CONSOLE
DEQ		AXV11-C/KWV11-C	EK-AXVAB-UG-02	INSTALLATION	USER GUIDE
DEQ		BASIC	AA-H869A-TE	PROGRAM	USER GUIDE
DEQ		DELQA	EK-DELQP-UG-01	OPERATOR	USER GUIDE
DEQ		IEU11-A/IEQ11/A	EK-1EU01-UG003	OPERATOR	USER GUIDE
DEQ		KLESIB	EK-LESIB-UG-00	SCHEMATICS	USER GUIDE
DEQ		RF301RF71	EK-RF71D-UG001	INSTALLATION	USER GUIDE
DEQ		VT100	EK-VT100UG-003	SERVICE	USER GUIDE
DEQ		KDB50	EK-KDB50-UG-00	SCHEMATICS	USER GUIDE DISK CONTROLLER
DEQ		DZQ11	EK-DZQ11-UG-01	TECHNICAL	USER GUIDE/INSTALLATION INFORMATION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEQ	TU80	EK-0TU80UG002	SERVICE	USERS GUIDE
DEQ	VAX/VMS DATATRV	AA-K080E-TE	PROGRAM	USERS GUIDE
DEQ	BASIC	AA-L335A-TK	PROGRAM	USER'S GUIDE
DEQ	UDA50	EK-UDA50-UG002	SCHEMATICS	USER'S GUIDE
DEQ	VR260	EK-VR260-IN-01	PART	USER'S GUIDE
DEQ	VT180	AA-M044B-TV	TECHNICAL	USER'S GUIDE
DEQ	RA60	EK-ORA60-UG001	SERVICE	USER'S GUIDE (2 COPIES)
DEQ	VT640	640-001	INSTALLATION	USERS MANUAUL
DEQ	VAX/VMS PASCAL	A1-H485E-TE	INSTALLATION	USERS MANUAL
DEQ	DUP11	EK-DUP11-0P001	SCHEMATICS	USER'S MANUAL
DEQ	KW11K	EK-KW11-KOP001	SCHEMATICS	USER'S MANUAL
DEQ	LS11	EK-LS11-TM003	DIAGNOSTIC	USER'S MANUAL
DEQ	PDP11/04	EK-11004-OP002	IPB	USER'S MANUAL
DEQ	RK11-D/E	EK-RK11D-OP001	SERVICE	USER'S MANUAL
DEQ	RSX11	AA-H268A-TC	OPERATOR	UTILITIES MANUAL
DEQ	DRV11-WA	MP01582-01	OPERATOR	UVAX DMA INTERFACE
DEQ	DRV11-WA	EK-DRVWA-UG002	SCHEMATICS	UVAX DMA INTERFACE
DEQ	IEQ11-A	MP-01180-01	OPERATOR	UVAX IEEE
DEQ	BA11K	EK-BA11K-OP001	TECHNICAL	VAX
DEQ	LPA11K	EK-LPA11-IN002	OPERATOR	VAX
DEQ	LPA11K	EK-LPA11-UG001	SCHEMATICS	VAX
DEQ	LPS11	EK-LPS11-OP003	SERVICE	VAX
DEQ	VAX11/785	MP01747	OPERATOR	VAX 11/785 CPU CABINET
DEQ	4000/5000	EK-455AA-IP-01	SCHEMATICS	VAX 4000 MODEL 500 SYSTEM IPB
DEQ	KA-785	MP-01749	SCHEMATICS	VAX 785 CPU PRINTS VOL2/LB
DEQ	KA-785	MP-01749	SCHEMATICS	VAX 785 CPU PRINTS-VOL 1/LB
DEQ	EP785	MP01757	TECHNICAL	VAX 785 FLOATING POINT MAINT. PRINT
DEQ	VAX	EB19580-20/31	TECHNICAL	VAX ARCHITECTURE HANDBOOK
DEQ	PDP11	EB17525-20/79	OPERATOR	VAX BUS HANDBOOK
DEQ	DB11A	EK-DB11A-TM002	SCHEMATICS	VAX BUS REPEATER
DEQ	DB11A	MP-0DB11A O	TECHNICAL	VAX BUS REPEATER
DEQ	KA780	EK-KA780-TD001	TECHNICAL	VAX CPU
DEQ	VAX11/750 CPU	EK-KA750-TD002	OPERATOR	VAX CPU DESCRIPTION
DEQ	VAX11/750	EK-VXD75-UG002	SERVICE	VAX DIAGNOSTIC
DEQ	VAX11	EK-1VAXD-TM-03	DIAGNOSTIC	VAX DIAGNOSTIC -NEW REV DESIGN GUIDE
DEQ	VAX11/750	EK-750YA-UG001	SERVICE	VAX DIAGNOSTIC SELF MAINTENANCE
DEQ	RM03	ER-ORM03-MP003	SCHEMATICS	VAX DISC
DEQ	RM03	ER-ORM03-TM002	SCHEMATICS	VAX DISC
DEQ	RM03	EK-RM03-IP-001	TECHNICAL	VAX DISC
DEQ	RM03/02	EK-RM023-SV002	SERVICE	VAX DISC
DEQ	RM03	MP00350	OPERATOR	VAX DISC ENGINEERING DRAWINGS
DEQ	RM80	EK-ORM80-PG001	TECHNICAL	VAX DISK
DEQ	VAX	EB 21710-20	TECHNICAL	VAX HARDWARE HANDBOOK
DEQ	VAX 11/780	EK-11780-UG001	SCHEMATICS	VAX HARDWARE USER'S GUIDE(SEE DEQ 214)
DEQ	VAX11/780	EK-11780-UG001	REFERENCE	VAX HARDWARE USER'S GUIDE(SEE DEQ 240)
DEQ	LP11/LA11	EK-OLP11-TM007	SCHEMATICS	VAX LP
DEQ	LP110	MP-OLP1100	SEE DPC 725/730	VAX LP
DEQ	VAX SYSTEMS	EK-VAXV1-HB002	OPERATOR	VAX MAINT HANDBOOK
DEQ	MS780	EK-MS780-TD001	SCHEMATICS	VAX MEM
DEQ	VAX 11/750	EK-MS750-TD001	OPERATOR	VAX MEMORY SYSTEM TECH.DESCRPTION
DEQ	DMC11 IPL	EK-DMCMP-OP002	SERVICE	VAX MICRO
DEQ	DMC11 IPL	EK-DMCMP-TM002	SERVICE	VAX MICRO
DEQ	TS11	EK-OTS11-TM001	IPB	VAX MTU
DEQ	TS11	EK-OTS11-UG001	SERVICE	VAX MTU
DEQ	TS11	EK-OTS11-PS003	TECHNICAL	VAX MTU
DEQ	TS11A	MP00849	SERVICE	VAX MTV
DEQ	AM11K	MP00090	INSTALLATION	VAX MUX EXPANDER
DEQ	AM11K	EK-AM11K-TM002	SCHEMATICS	VAX MUX EXPANDER
DEQ	PERIPHERALS	EB20443-20/81	INSTALLATION	VAX PEPIPERALS HANDBOOK
DEQ	VAX11	AV-D827A-TE	DIAGNOSTIC	VAX PROGRAMMING CARD
DEQ	VAX 2000	EK-199AA-AD-002	OPERATOR	VAX SERVER/MICROVAX 2000
DEQ	MVII	AQGL5ABDN	TECHNICAL	VAX STA DIAG (ON TAPE)
DEQ	DMC11 IPL	EK-DMCLU-OP002	OPERATOR	VAX SYNCH LINE
DEQ	DMC11 IPL	EK-DMCLU-MM002	SCHEMATICS	VAX SYNCH LINE
DEQ	VAX11/780	EK-11780-PG001	SERVICE	VAX SYSTEM MAINTENANCE GUIDE
DEQ	VAX11/750	EK-UI750-TD001	DIAGNOSTIC	VAX UNIBUS INTERFACE TECH.DESCRPTION
DEQ	BASIC	AA-L334A-TK	SCHEMATICS	VAX11 BASIC
DEQ	COMET	MP00858	OPERATOR	VAX11/750 MEMCNTRL
DEQ	DW780	EK-DW780-TD001	TECHNICAL	VAX11/780 UNIBUS ADAPTER TECHNICAL DESC
DEQ	PCS750	L0008-O-DBP	DIAGNOSTICS	VAX750
DEQ	VAXBI	EB-27271-46	SCHEMATICS	VAXBI OPTIONS
DEQ	KC780	MP00534	TECHNICAL	VAX-L.B.CONSOLE ASSY. CONTL.PANEL RX01
DEQ	M8728	MP00857	SCHEMATICS	VAX-LB 11/750 MOS MEMORY ARRAY
DEQ	11750	MP00838	INSTALLATION	VAX-LB BACKPLANE
DEQ	VAX11/780	MP00539	TECHNICAL	VAX-LB BACKPLANE
DEQ	KA750	MP01024	SCHEMATICS	VAX-LB CPU
DEQ	KA780	MP00496	TECHNICAL	VAX-LB CPU ASSEMBLY
DEQ	FP750	MP01269	SCHEMATICS	VAX-LB FLOATING POINT ACCELERATOR
DEQ	DW780	MP00497	TECHNICAL	VAX-LB UNIBUS ADAPTOR ASSEMBLY
DEQ	H9602-D	MP00577	SCHEMATICS	VAX-LB UNIBUS OPTION CONFIGURATION
DEQ	KU750	MP01268	SCHEMATICS	VAX-LB UNIT ASSEMBLY
DEQ	2000	EK-VAXAC-IN-003	OPERATOR	VAXSTATION 2000
DEQ	2000	EK-NETAB-UG-002	SERVICE	VAXSTATION 2000
DEQ	2000	EK-VAXAC-OM-003	SERVICE	VAXSTATION 2000
DEQ	VS410	EK-VAXAB-OM002	INSTALLATION	VAXSTATION 2000
DEQ	VS410	EK-NETAA-UG001	OPERATOR	VAXSTATION 2000
DEQ	VS410	EK-VAXAB-IN002	SERVICE	VAXSTATION 2000
DEQ	VAX 3100	EK-288AA-IP-01	OPERATOR	VAXSTATION 3100 IPB
DEQ	VAX 3100/76	EK-VS31M-MG-02	LOGIC	VAXSTATION 3100 MODEL 76 MAINT GUIDE
DEQ	VCB02	EK-104AA-TM001	SCHEMATICS	VIDEO SUBSYSTEM
DEQ	VT125	EK-VT125-UG001	IPB	VIDEO TERMINAL
DEQ	VT125	MP-01053-00	OPERATOR	VIDEO TERMINAL
DEQ	VT125	EK-VT125-IP001	SCHEMATICS	VIDEO TERMINAL
DEQ	VT131	EK-VT131-IP003	SERVICE	VIDEO TERMINAL
DEQ	VT125	EK-VT125-RC001	OPERATOR	VIDEO TERMINAL PROGRAMMING REFERENCE CA
DEQ	LA36/LA35	EK-1LA36-MM002	SCHEMATICS	VOL 1
DEQ	TU78	EK-1TU78-TM	IPB	VOL 1 CELCO SYSTEM

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
DEQ		PDP8/L	DEC-8/L-HR1B-D	SCHEMATICS	VOL. 1 MAINT MANUAL
DEQ		PDP8/E/F/M	DEC-8E-HRIC-D	OPERATOR	VOL. 1 MAINTENANCE MANUAL
DEQ		TU78	EK-2TU78-TM	SERVICE	VOL. 2 CELCO SYSTEM
DEQ		PDP8/L	PDP8/L	OPERATOR	VOL. 2 SCHEMATICS
DEQ		PDP11/55	MP00039	SCHEMATICS	VOL. 1 11/55 CPU
DEQ		PDP11/55	MP00040	SEE NSCO 270	VOL. 2 11/55 INTERNAL OPTIONS
DEQ		VT240	MP-01410-00	TECHNICAL	VR201
DEQ		VR201	MP-01410-00	IPB	VR201 MONITOR
DEQ		VR290	EK-VR290-SV02	SCHEMATICS	VR290 COLOR VIDEO MONITOR
DEQ		VR290	EK-VR290-IN002	INSTALLATION	VR290 GPX
DEQ		VT24X	MP-01808-01	OPERATING PROCEDURES	VT24X MODEM MODULE
DEQ		VT330	EK-VT330-PS-02	SCHEMATICS	VT330 POCKET SERVICE GUIDE
DEQ		VT330	EK-VT330-IP002	SERVICE	VT330 VIDEO TERMINAL
DEQ		BA11K	MP00311	SERVICE	W/H744 H745 H754 H765 PWR SUPPLIES
DEQ		DD11B	DD11B	SCHEMATICS	WIRE LIST
DEQ		861	MP-N0861-00	IPB	N/A
DEQ		200/MCDIESERVER	EK-D200H-IN-00	INSTALLATION	N/A
DEQ		8200/8300	AZ-GN5AC-TE	OPERATOR	N/A
DEQ		AD11K	EK-AD11K-OP-02	CATALOG	N/A
DEQ		AD11K	EK-AD11K-OP001	OPERATOR	N/A
DEQ		AD11K	MP00047	OPERATOR	N/A
DEQ		BA11A	EK-BA11A-TM002	SCHEMATICS	N/A
DEQ		BA11K	MP-00311-00	OPERATOR	N/A
DEQ		BA11K	EK-BA11K-TM003	SCHEMATICS	N/A
DEQ		BA11-K	EK-BA11K-IP-0	SCHEMATICS	N/A
DEQ		BASIC	AA-L336A-TK	PROGRAM	N/A
DEQ		CR11	TEST CARD DECK	SCHEMATICS	N/A
DEQ		DD11C	MP0DD11-CO	SCHEMATICS	N/A
DEQ		DD11D	MP-0DD11-D0	OPERATOR	N/A
DEQ		DEC SERVER 200	EKDECS2-TM-001	SOFTWARE	N/A
DEQ		DEC SERVER 200	EKD200C1N001	TECHNICAL	N/A
DEQ		DHV11	EK-DHV11-M-01	TECHNICAL	N/A
DEQ		DMC11 IPL	MP00076	OPERATOR	N/A
DEQ		DMF32	EK-DMF32-UG002	SCHEMATICS	N/A
DEQ		DR11K	MP-ODR11-KO	SERVICE	N/A
DEQ		DRS/DSS	YM-C195V-00	TECHNICAL	N/A
DEQ		DRS11	MP00175	SCHEMATICS	N/A
DEQ		DRV11	MP00054	LOGIC	N/A
DEQ		DSRVB-A	MP-01827-01	SCHEMATICS	N/A
DEQ		DSS11	MP00174	TECHNICAL	N/A
DEQ		DU11	EK-DU11-MM001	OPERATOR	N/A
DEQ		DU11	MP-0DU11-00	OPERATOR	N/A
DEQ		DU11	EK-DU11-OP001	SCHEMATICS	N/A
DEQ		DUP11-0	MP-DUP11-00	SCHEMATICS	N/A
DEQ		DZ11	EK-DZ11-MM-PRE	OPERATOR	N/A
DEQ		DZ11	EK-DZ11-U0002	SCHEMATICS	N/A
DEQ		DZ11	EK-DZ11-TM002	TECHNICAL	N/A
DEQ		DZ11	MP00132	TECHNICAL	N/A
DEQ		DZ32	MP-00941-00	TECHNICAL	N/A
DEQ		FP11-C	EK-FP11C-MM001	SCHEMATICS	N/A
DEQ		GKS/OB	AA-BH53B-TE	SCHEMATICS	N/A
DEQ		H9602-M	MP01259	ENGINEERING	N/A
DEQ		KA820/KA825	EK-KA820-	TECHNICAL	N/A
DEQ		KDB50	EK-KDB50-SU-00	OPERATOR	N/A
DEQ		KW11-L	EK-KW11L-TM002	SCHEMATICS	N/A
DEQ		LA100	EK-LA100-TM001	PROGRAM	N/A
DEQ		LA100	MP-01096-00	TECHNICAL	N/A
DEQ		LA12	EK-CPL12-IN001	OPERATOR	N/A
DEQ		LA12	EK-CPL12-TM001	SCHEMATICS	N/A
DEQ		LA12	EK-CPL12-PS001	SERVICE	N/A
DEQ		LA12	EK-CPL12-OP001	TECHNICAL	N/A
DEQ		LA120	LA120-O-DBP	SEE TEK 785	N/A
DEQ		LA180	REF	SCHEMATICS	N/A
DEQ		LA210	EK-LA210-PS002	IPB	N/A
DEQ		LA210	EK-LA210-IP001	SCHEMATICS	N/A
DEQ		LA-210	EK-LA210-TM001	SERVICE	N/A
DEQ		LA34	EK-LA345-TM001	OPERATOR	N/A
DEQ		LA34	MP-00695	PROGRAM	N/A
DEQ		LA34	EK-LA345-IP003	TECHNICAL	N/A
DEQ		LA34	MP-00695	TECHNICAL	N/A
DEQ		LA36	MP-OLA36-00	IPB	N/A
DEQ		LA36	EK-2LA36-MM001	OPERATOR	N/A
DEQ		LA36	325-1062-3N871	SERVICE	N/A
DEQ		LA38-GA/AA	MP-00754	OPERATOR	N/A
DEQ		LA50	EKOLA50-RM002	OPERATOR	N/A
DEQ		LA50	EKOLA50-TM001	OPERATOR	N/A
DEQ		LA50	EKOLA50-UG001	SERVICE	N/A
DEQ		LK201	EK-LK201-IP-02	SCHEMATICS	N/A
DEQ		LK-201	EK-LK201-IP-02	IPB	N/A
DEQ		LK201-A-1	MP-01395	FIELD CHANGE ORDER	N/A
DEQ		LN03	EK-MLN03-MG001	PROGRAM REF MAN	N/A
DEQ		LN03	EK-OLN03-RM002	SERVICE GUIDE	N/A
DEQ		LP06	REF	INSTALLATION	N/A
DEQ		LP11/LA11	MP-0LP11-00	SERVICE	N/A
DEQ		LPA11K	MP00479	TECHNICAL	N/A
DEQ		LPA11-K	AA-H852A-TC	OPERATOR	N/A
DEQ		LQP02	AA-L662B-TK	SCHEMATICS	N/A
DEQ		LQP03	EK-LQP03-RM-02	INSTALLATION	N/A
DEQ		LQP03	EK-LQP03-UG-03	IPB	N/A
DEQ		LS120	EK-LS120-IP001	SCHEMATICS	N/A
DEQ		M8043	MP00989-01A1	TECHNICAL	N/A
DEQ		M9312	MP-00617	TECHNICAL	N/A
DEQ		MICROVAXII	MP-02071-01	OPERATOR	N/A
DEQ		MICROVMS	AA-DC87A-TE	OPERATOR	N/A
DEQ		MICROVMS	QLN55-GZ VOL I	OPERATOR	N/A
DEQ		MICROVMS	QLN55-GZ VOLII	PROGRAM	N/A
DEQ		MICROVMS VOL I	AA-Z210C-TE	OPERATOR	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DEQ	MODULES	TD1050/23-15	SCHEMATICS	N/A
DEQ	MODULES	SPARES 1	TECHNICAL	N/A
DEQ	PC238	EK-PC238-IP-01	OPERATOR	N/A
DEQ	PDP11	DEC-11-D9H-DIA	DIAGNOSTICS	N/A
DEQ	PDP11	DEC-11-DIAG	OPERATOR	N/A
DEQ	PDP11	EHS1046	OPERATOR	N/A
DEQ	PDP11/04	EK-11034-MC003	SCHEMATICS	N/A
DEQ	PDP11/44	EK-KD11Z-TM001	SCHEMATICS	N/A
DEQ	PDP11/44	EK-PDP44-MC001	SERVICE	N/A
DEQ	PDP11/70	REF	CATALOG	N/A
DEQ	PDP8	DEC-08-LBAA-D	SCHEMATICS	N/A
DEQ	RA60	EKORA60-UG001	IPB	N/A
DEQ	RAINBOW 100	EK-P100E-IN002	OPERATOR	N/A
DEQ	RSX-11M	AA-2555D-TC	OPERATOR	N/A
DEQ	RSX-11M	AA-D374A-TC	PROGRAM	N/A
DEQ	RSX-11M	DEC11-OMOGA-B-	PROGRAM	N/A
DEQ	RT11	AA-5279B-TC	OPERATOR	N/A
DEQ	RT11	AD-5279B-T1	SEE CALC 420	N/A
DEQ	RX01	REF	SCHEMATICS	N/A
DEQ	TK50	M7546-Q-DBU	SCHEMATICS	N/A
DEQ	TK70	EK-OTK70-SM001	SERVICE	N/A
DEQ	TMB11-M	EKTMB11-OP001	CATALOG	N/A
DEQ	TMB11-M	EKTMB11-MM001	OPERATOR	N/A
DEQ	TS11A	EK-TS11A-IP002	SCHEMATICS	N/A
DEQ	TSV05	MP01157	OPERATOR	N/A
DEQ	TSV05	EK-TSV05-PS-04	SCHEMATICS	N/A
DEQ	TU58	EK-OTU58-UG002	IPB	N/A
DEQ	TU58	EK-OTU58-TM001	SCHEMATICS	N/A
DEQ	TU58	EK-OTU58-IP002	TECHNICAL	N/A
DEQ	TU58C	MP00747	IPB	N/A
DEQ	TU60	EK-OTU60-IP004	SCHEMATICS	N/A
DEQ	TU80	MP-01603-01	DIAGNOSTIC	N/A
DEQ	VAX	ED-28003-80	TECHNICAL	N/A
DEQ	VAX PASCAL	AA-L369B-TE	OPERATOR	N/A
DEQ	VAX/VMS PASCAL	AA-5181H-TE	PROGRAM	N/A
DEQ	VAX11/780	REF	SCHEMATICS	N/A
DEQ	VAX-GKS VOL II	AI-HW44B-TE	SERVICE	N/A
DEQ	VR201	EK-VR201-IP-01	SCHEMATICS	N/A
DEQ	VR260	EK-VR260-IP-01	SCH	N/A
DEQ	VS240	EK-VS240-IP-02	OPERATOR	N/A
DEQ	VS240	MP-01597-00	TECHNICAL	N/A
DEQ	VT100	EK-VT100-UG002	SCHEMATICS	N/A
DEQ	VT101	EK-VT101-PS001	IPB	N/A
DEQ	VT101	MP-01066-00	SERVICE	N/A
DEQ	VT102	EK-VT102-UG003	IPB	N/A
DEQ	VT180	EK-VT18X-TM001	SERVICE	N/A
DEQ	VT220	MP-01732-01	SERVICE	N/A
DEQ	VT240	EK-VT240XIN001	OPERATOR	N/A
DEQ	VT240	EK-VT240-UG001	SCHEMATIC	N/A
DEQ	VT240	MP-01807-01	SCHEMATIC	N/A
DEQ	VT240	EK-VT240-IN002	SCHEMATICS	N/A
DEQ	VT240	EK-VT240-IP-02	SCHEMATICS	N/A
DEQ	VT240A	MP01807-01	SCHEMATICS	N/A
DEQ	VT52	EK-VT52MM-002	IPB	N/A
DEQ	VT52	MP00035	SERVICE	N/A
DETEK SENSORS	TG-6343	N/A	B	CATALOG
DETEK SENSORS	TG-7822	N/A	TECHNICAL	CATALOG
DFO	SE102	990012	DIAGNOSTIC	OPERATOR IPB ENGINEERING
DGC	NOVA	096-000146-03	TECHNICAL	ARITHMETIC TEST
DGC	N/A	096-000146-03	SERVICE	ARITHMETIC TEST
DGC	S-200 SERIES	015-000075-01	TECHNICAL	BOARD LEVEL FIELD SERVICE
DGC	ECLIPSE	015-000913-01	TECHNICAL	CPU PERIPHERAL
DGC	6040-6043	015-000052-04	INSTALLATION	DASHER
DGC	MPT/100	015-000113	SERVICE/DIAGNOSTIC	DUAL DISK DRIVE
DGC	ECLIPSE	010-000066	ENGINEERING	DUAL EXPANSION
DGC	MV/4000	015-000118	DIAGNOSTIC	ECLIPSE MV4000 AT BLDG 1225
DGC	NOVA	096-000144-05	DIAGNOSTIC	EXERCISER
DGC	8414	000137 REV 3	SERVICE	EXPANSION CHASSIS
DGC	DASHER	015-000098-00	SERVICE	LP2 AND TP2
DGC	DASHER ENHANCED	015-000124-01	DIAGNOSTICS	LP2 AND TP2
DGC	NOVA	096-000145-03	DIAGNOSTIC	MEMORY ADDRESS TEST
DGC	NOVA	096-000137-01	DIAGNOSTIC	MEMORY CHECKERBD V
DGC	NOVA	097-000022-02	DIAGNOSTIC	POWER SHUTDOWN TEST
DGC	NOVA	096-000162-06	TECHNICAL	PTR/PUNCH TEST
DGC	DTOS	015-000103	SUMMARY TO DIAGS GUIDE	REFERENCE
DGC	6040-6043	000094 REV 9	TECHNICAL	TPI
DGC	6040-6043	015-000051-03	TECHNICAL	TPI
DGC	NOVA	096-000152-06	DIAGNOSTIC	TTY TEST
DGC	4019/A/B/C	015-000003-02	TECHNICAL	VOL 1
DGC	NOVADISC 6001	015-000013-02	TECHNICAL	VOL 1
DGC	6012	014-000049-02	SCHEMATICS	N/A
DGC	6012	312	TECHNICAL	N/A
DGC	6012	015-000032-00	TECHNICAL	N/A
DGC	6012	015-000032-00	TECHNICAL	N/A
DGC	6045	015-000057-02	SERVICE	N/A
DGC	6125	015-000112	SCHEMATICS	N/A
DGC	6020 SERIES	015-000042-03	OPERATOR	N/A
DGC	6020 SERIES	015-000040-05	SCHEMATICS	N/A
DGC	6020 SERIES	014-000095-01	SERVICE	N/A
DGC	6020 SERIES	000113 REV8	TECHNICAL	N/A
DGC	6045/50/51	015-000058-05	SERVICE	N/A
DGC	800/1200	000148REV9	ENGINEERING	N/A
DGC	DTOS	015-000113	ENGINEERING	N/A
DGC	DTOS	015-000082	GUIDE TO DIAGS	N/A
DGC	NOVA	042-000001	DIAGNOSTIC	N/A
DGC	NOVA	015-000028-03	SERVICE	N/A
DGC	NOVA	042-000001	TECH UPDATE	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DGC	NOVA 1200	015-00002-04	SERVICE	N/A
DGC	NOVA 2	015-000026-01	DIAGNOSTIC	N/A
DGC	NOVA 2	096-000110-02	SERVICE	N/A
DGC	NOVA800	015-00004-02	TECHNICAL	N/A
DGC	NOVA800/1200	DG NM-6	SERVICE	N/A
DGC	NOVA820	015-000012	SERVICE	N/A
DGC	S/200	015-000075-01	CATALOG	N/A
DGC	TIPS	012-001749-00	SERVICE	N/A
DGC	TPI	014-000084	OPERATOR	N/A
DGC	TPI	014-000088-01	OPERATOR	N/A
DGX	132BG11	132BG11	TECHNICAL	TERMINAL-LONGBOOK
DGX	132BM11	132BM11	Q	TERMINAL-LONGBOOK
D-H INSTRUMENTS	5000	N/A	B	CATALOG
D-H INSTRUMENTS	5200	N/A	B	CATALOG
D-H INSTRUMENTS	5202	N/A	B	CATALOG
D-H INSTRUMENTS	5213	N/A	B	CATALOG
D-H INSTRUMENTS	5303	N/A	B	CATALOG
D-H INSTRUMENTS	5306	N/A	B	CATALOG
D-H INSTRUMENTS	5316	N/A	B	CATALOG
D-H INSTRUMENTS	5502	N/A	V	CATALOG
D-H INSTRUMENTS	50212	N/A	B	CATALOG
D-H INSTRUMENTS	50316	N/A	B	CATALOG
DI/AN	NC-14/40-17N-87	N/A	Q	N/A
DI/AN	RA2048/18-300-00	N/A	X	N/A
DIABLO	42A	N/A	Q	N/A
DIAZIT CO	100	N/A	SERVICE	N/A
DIB	SERIES-30	D3031-670	SEE XDS 730	31 33 PRODUCT DESCRIPTION
DIB	30 SERIES	81503-03	SERVICE	CARTRIDGE DISC-MOD
DIB	D44B	81903-02	PARTS	DISK DRIVE
DIB	D25	DIB-HELP-630	TECHNICAL	FIELD SERVICE AID
DIB	429	CS504-05	CATALOG	LONG BOOK
DIB	40 SERIES	81602	CATALOG	LONG BOOK
DIB	40 SERIES	81604	CATALOG	LONG BOOK
DIB	40 SERIES	CS503-07	CATALOG	LONG BOOK
DIB	40 SERIES	81603B	IPB	LONG BOOK
DIB	429 PWR SUPPLY	81608A	SERVICE	LONG BOOK
DIB	SERIES 40 DISK	395P-R3	SERVICE	LONG BOOK
DIB	SERIES 40 DISK	CS500-37	SERVICE	LONG BOOK
DIB	429	CS500-04A	INSTALLATION	LONGBOOK
DIB	40 SERIES	81601	SERVICE	LONGBOOK
DIB	429 PWR SUPPLY	81603A	SERVICE	LONGBOOK
DIB	1345A	82403-03D	SERVICE	MAINTENANCE
DIB	29	81507-02	IPB	MOD 29 PWR SUP
DIB	29	81507A	SERVICE	N/A
DIB	1345A	82404-05A	SERVICE	N/A
DIB	30 SERIES	D3140-171	IPB	N/A
DIB	30 SERIES	81504-02	SERVICE	N/A
DIB	SERIES 1300	82404-05	IPB	N/A
DIB	T20	N/A	H	N/A
DICKSON	AA-195-70	N/A	H	OPERATION
DICKSON	TH4-7	N/A	U	OPERATION
DICTAPHONE	104000	N/A	U	N/A
DICTAPHONE	DICTET RECORDER	N/A	N/A	N/A
DIEHL MANF. CO.	FPE21L	N/A	E	N/A
DIGILIN	2330	N/A	E	INSTRUCTION
DIGIMETRICS	TSU-250	N/A	X	OPERATING INSTRUCTIONS
DIGIPOWER	DS150/300	N/A	L	N/A
DIGITA VALVE CO.	DIGICON-RC	N/A	X	N/A
DIGITAL DATA SYS	14300	N/A	N/A	N/A
DIGITAL EQUIP CORP.	LJ250-CA	N/A	Q	MAINTENANCE PRINT SET AVAIL AROUND OCT/NOV 88
DIGITAL EQUIPMENT	LA50	N/A	Q	3 MANUALS
DIGITAL EQUIPMENT	521	N/A	Q	N/A
DIGITAL EQUIPMENT	VJ220	N/A	Q	N/A
DIGITAL EQUIPMENT	VR14/VR17	N/A	E	N/A
DIGITEC	2000	N/A	E	INFORMATION
DIGITEC	2770	N/A	E	INFORMATION
DIGITEC	2780	N/A	E	INFORMATION
DIGITEC	2780	N/A	E	INFORMATION
DIGITEC	2780	N/A	E	INFORMATION
DIGITEC	2780	N/A	H	INFORMATION
DIGITEC	2784	N/A	E	INFORMATION
DIGITEC	1200/1500	N/A	E	INFORMATION
DIGITEC	1200/1500	N/A	E	INFORMATION
DIGITEC	1200/1500	N/A	E	INFORMATION
DIGITEC	100	N/A	E	INSTRUCTION
DIGITEC	100	N/A	E	INSTRUCTION
DIGITEC	201	N/A	E	INSTRUCTION
DIGITEC	266	N/A	E	INSTRUCTION
DIGITEC	266	N/A	E	INSTRUCTION
DIGITEC	266	N/A	E	INSTRUCTION
DIGITEC	270	N/A	E	INSTRUCTION
DIGITEC	270	N/A	E	INSTRUCTION
DIGITEC	270	N/A	E	INSTRUCTION
DIGITEC	270	N/A	E	INSTRUCTION
DIGITEC	281	N/A	E	INSTRUCTION
DIGITEC	282	N/A	E	INSTRUCTION
DIGITEC	311	N/A	N/A	INSTRUCTION
DIGITEC	500	N/A	E	INSTRUCTION
DIGITEC	634	N/A	E	INSTRUCTION
DIGITEC	635	N/A	E	INSTRUCTION
DIGITEC	642	N/A	E	INSTRUCTION
DIGITEC	654	N/A	E	INSTRUCTION
DIGITEC	662	N/A	E	INSTRUCTION
DIGITEC	681	N/A	E	INSTRUCTION
DIGITEC	691	N/A	E	INSTRUCTION
DIGITEC	725	N/A	E	INSTRUCTION
DIGITEC	726	N/A	E	INSTRUCTION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DIGITEC	740	N/A	X	INSTRUCTION
DIGITEC	2785	N/A	E	INSTRUCTION
DIGITEC	2785	N/A	H	INSTRUCTION
DIGITEC	3110	N/A	E	INSTRUCTION
DIGITEC	181/182/184	N/A	E	INSTRUCTION
DIGITEC	200/400	N/A	E	INSTRUCTION
DIGITEC	200/400	N/A	E	INSTRUCTION
DIGITEC	200/400	N/A	E	INSTRUCTION
DIGITEC	211/214	N/A	E	INSTRUCTION
DIGITEC	211/214	N/A	E	INSTRUCTION
DIGITEC	211/214	N/A	E	INSTRUCTION
DIGITEC	251/252	N/A	E	INSTRUCTION
DIGITEC	251/252	N/A	E	INSTRUCTION
DIGITEC	251/252	N/A	E	INSTRUCTION
DIGITEC	251-1/252-1	N/A	E	INSTRUCTION
DIGITEC	251-1/252-1	N/A	E	INSTRUCTION
DIGITEC	251-1/252-1	N/A	E	INSTRUCTION
DIGITEC	251-1/252-1	N/A	E	INSTRUCTION
DIGITEC	251-3/252-3	N/A	E	INSTRUCTION
DIGITEC	251-3/252-3	N/A	E	INSTRUCTION
DIGITEC	251-4	N/A	E	INSTRUCTION
DIGITEC	251-4	N/A	E	INSTRUCTION
DIGITEC	262/263	N/A	E	INSTRUCTION
DIGITEC	262/263	N/A	E	INSTRUCTION
DIGITEC	262A	N/A	E	INSTRUCTION
DIGITEC	262A/263A	N/A	E	INSTRUCTION
DIGITEC	275A	N/A	E	INSTRUCTION
DIGITEC	275A	N/A	E	INSTRUCTION
DIGITEC	276/277	N/A	E	INSTRUCTION
DIGITEC	281A	N/A	E	INSTRUCTION
DIGITEC	621/622/623	N/A	E	INSTRUCTION
DIGITEC	621/622/623	N/A	E	INSTRUCTION
DIGITEC	682/683	N/A	E	INSTRUCTION
DIGITEC	719 C/L/R/F	N/A	E	INSTRUCTION
DIGITEC	722/723	N/A	E	INSTRUCTION
DIGITEC	MI-1295B	N/A	X	INSTRUCTION
DIGITEC	3110	N/A	E	OPERATION AND SERVICE MANUAL
DIGITEC	280	N/A	E	OPERATOR'S MANUAL
DIGITEC	900	N/A	H	PRELIMINARY INSTRUCTION
DIGITEC	2789	N/A	E	SERVICE
DIGITEC	2780A	N/A	E	SERVICE
DIGITEC	M1-1211	N/A	X	SERVICE
DIGITEC	8222	N/A	E	N/A
DIGITECH	662B	N/A	A	N/A
DILKS	VOCAL-AIRE	N/A	TECHNICAL	N/A
DIO	22A	10-990-0003H	C	N/A
DIONEX	QIC	N/A	E	OPERATION
DISA	55D90	N/A	L	CATALOG
DISA	55L	N/A	E	CATALOG
DISA	56C00	N/A	N/A	CIRCUIT DIAGRAMS
DISA	55B25	N/A	E	INSTRUCTION
DISA	55B30	N/A	E	INSTRUCTION
DISA	55D01	N/A	E	INSTRUCTION
DISA	55D10	N/A	E	INSTRUCTION
DISA	55D10	N/A	E	INSTRUCTION
DISA	55D15	N/A	E	INSTRUCTION
DISA	55D26	N/A	E	INSTRUCTION
DISA	55D26	N/A	E	INSTRUCTION
DISA	55D26	N/A	X	INSTRUCTION
DISA	55D31	N/A	X	INSTRUCTION
DISA	55M	N/A	E	INSTRUCTION
DISA	55M10	N/A	E	INSTRUCTION
DISA	55M25	N/A	E	INSTRUCTION
DISA	55M25	N/A	E	INSTRUCTION
DISA	55D35	N/A	L	INSTRUCTION AND SERVICE
DISA	55M	N/A	E	INSTRUCTION AND SERVICE
DISA	55D26	N/A	E	N/A
DISA	55D35	N/A	E	N/A
DISC INTEGRATOR	200	N/A	TECHNICAL	N/A
DLA	1553B	1553B	INSTALLATION OPERATIO	SCHEMATICS
DLI	SQ706	2120-0154	INSTALLATION	INSTALL OPERATE TROUBLESHOOTING
DLI	DU256	2120-0162	SERVICE	INSTALLATION AND OPERATION DISK CONTROL
DLI	SQ739	2120-0209	X	INSTALLATION ON AND OPERATION MANUAL
DMC	6100	N/A	X	N/A
DMC	6275	N/A	D	N/A
DO ALL COMPANY	CATALOG	N/A	N/A	GAGES
DOBLE	F2000	N/A	TECHNICAL	OPERATION AND CALIBRATION
DOC	TRM600L	6358	H	AIRLAB CARD READER
DOC	M600L	6491	TECHNICAL	CARD READER
DOC	M1000L	M1000L-001	TECHNICAL	CARD READER-MODC
DOC	M200	M200-001	TECHNICAL	CARD READER-MODC
DOC	M300L	685	TECHNICAL	N/A
DOC	RM1000L	6490	TECHNICAL	N/A
DOHRMANN	1300/2300	N/A	X	OPERATION
DOHRMANN	1300/2300	N/A	H	SERVICE
DONNER	1202	N/A	X	N/A
DONNER	1202 B-6	N/A	H	N/A
DORIC	DS350-T3	N/A	E	CALIBRATION
DORIC	C-130	N/A	E	OWNER'S MANUAL
DORIC	DS-100	N/A	E	OWNER'S MANUAL
DORIC	DS-100	N/A	E	OWNER'S MANUAL
DORIC	DS-100	N/A	E	OWNER'S MANUAL
DORIC	DS-100-75	N/A	E	OWNER'S MANUAL
DORIC	DS-300-T24	N/A	H	OWNER'S MANUAL
DORIC	200	N/A	H	SERVICE
DORIC	400A	N/A	E	SERVICE
DORIC	DS300	N/A	H	SERVICE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DORIC	DS330-T3	N/A	H	SERVICE
DORIC	DS330-T3	N/A	H	SERVICE
DORIC	DS330-T3	N/A	H	SERVICE
DORIC	DS330-T3	N/A	H	SERVICE
DORIC	DS350	N/A	H	SERVICE
DORIC	DS350	N/A	H	SERVICE
DORIC	DS350-T3	N/A	H	SERVICE
DORIC	DS100	N/A	H	N/A
DORIC	DS-350	N/A	X	N/A
DORLER	PS-3	N/A	K	SCHEMATICS INSTALLATION
DOTRONIX	14M939/17M922	N/A	K	FORMERLY AUDIOTRONICS
DOTRONIX	14VM939/17VM922	N/A	B	FORMERLY AUDIOTRONICS
DP	BL-1	N/A	SCHEMATICS	N/A
DPC	B300	255122-001	SERVICE	300/600 LPM LB
DPC	2310	214163REV8	TECHNICAL	BLDG1244
DPC	LB-SERIES	DPC267895B	TECHNICAL	COPY 2
DPC	2260	DPC239541G	TECHNICAL	DEQP LP06 PRINTER
DPC	LB-300/315/615	289558B	OPERATOR	LB-300/315/615 IPB
DPC	LB-300/315/615	DPC267884C	SERVICE	LB-300/315/615 OPERATOR'S GUIDE
DPC	LB-300/600	267895D	SERVICE	LB-300/600 MAINTENANCE GUIDE
DPC	3461	243499B	SERVICE/TECHNICAL	LINE PRINTER
DPC	300/600LPM	DPC255137C	SCHEMATICS	LINE PRINTER
DPC	300LPM/600LPM	255136A	SCHEMATICS	LINE PRINTER BSERIE
DPC	BP SERIES	255158B	TECHNICAL	LINE PRINTER MAINTENANCE
DPC	300/600LPM	DPC255122A	OPERATOR	LINE PRINTER-LONGBOOK
DPC	300/600/1000LPM	DPC267726VOL1	SERVICE	LINE PRINTERS
DPC	300/600/1000LPM	DPC267726VOL2	TECHNICAL	LONGBOOK
DPC	P-80/132	REF	SERVICE	MATRIX PRINTERS
DPC	400	1005	SCHEMATICS	MINI-FLOPPY DISC
DPC	LM600	02564-90956	SERVICE	PARTS LIST AND SCHEMATICS
DPC	BP SERIES	DPC267703	SCHEMATICS	POWERED PAPER STACKER
DPC	SPG-8050	9000-005-540	SCHEMATICS	PRINTER
DPC	LZR1260	286030-001	TECHNICAL	SERVICE
DPC	LB-SERIES	DPC267895	SERVICE	SERVICE ALIGNMENTS INSTALLATION
DPC	LZR1560 NP20	330-051-001	SEE ITA 760	SERVICE/IPB
DPC	2410	TM234660-001	TECHNICAL	SERVICE-IPB-SCHEMATICS-LB
DPC	LM SERIES	02564-90954	SERVICE	TECHNICAL REFERENCE
DPC	LM600	02564-90955	TECHNICAL	THEORY DIAGNOSTICS ADJUSTMENTS
DPC	2230	DPC234875BVOL2	TECHNICAL	XDS 3461 PRINTER
DPC	2230	DPC234875BVOL1	TECHNICAL	XDS 3461 PRINTER + SCHEMATICS
DPC	400	1005	SERVICE	N/A
DPC	300/600/1000LPM	DPC267726VOL1	TECHNICAL	N/A
DPC	BP1500	DPC267713B	IPB	N/A
DPR	CT-6644	600-1	TECHNICAL	2615
DPR	CT6644	600-3	IPB	COPY 2
DPR	CT-4964	600-2	OPERATOR	CT-6644/7484
DPR	CT4964	600-3	OPERATOR	CT-6644/7884
DPR	1200 SERIES	1200-1	SCHEMATICS	DATA PRODUCTS I/O
DPR	1200 SERIES	PL42034K	SCHEMATICS	DATA PRODUCTS I/O
DPR	1200 SERIES	40036G	TECHNICAL	DATA PRODUCTS I/O
DPR	CT6644	600-1	SERVICE	LINE PRINTER CT-4964/6644/7484
DPR	1000LPM	DPC267709M	TECHNICAL	LONG BOOK
DPR	CT-6644	600-2	OPERATOR	LONGBOOK
DPR	CT-6644	600-1	SERVICE	LONGBOOK
DPR	CT-6644 SERIES	600-3	SCHEMATICS	LONGBOOK
DPR	CT-6644 SERIES	600-4	SERVICE	LONGBOOK
DPR	CT6644	600-4	SERVICE	SCHEMATICS LB
DPR	V-132-C	V132-1	SCHEMATICS	VOL 1-LONGBOOK
DPR	V-132-C	V132-2	OPERATOR	VOL 2-LONGBOOK
DPR	1200 SERIES	1200-4	IPB	N/A
DPU	245	45-1000	OPERATOR	DIGITAL MULTIMETER
DPU	245	45-1000Y	SERVICE	INSTRUCTIONS
DPU	5740	72-1002	X	N/A
DRANETZ	TM-106650V	N/A	X	OPERATIONS & SERVICE MANUAL
DRANETZ	TM-103062	N/A	N/A	OPERATORS MANUAL
DRANETZ	TM-103161	N/A	N/A	SERVICE
DRANETZ	TM-102700	N/A	N/A	SERVICE MANUAL (2)
DRESSEN-BARNES	155/205/305/415	N/A	X	N/A
DRESSEN-BARNES	205 SERIES	N/A	X	N/A
DRESSEN-BARNES	21-112 21-113&4	N/A	X	N/A
DRESSEN-BARNES	PWR. SUPPLY CAT.	N/A	TECHNICAL	N/A
DRF	AIRLAB	NAS1-16800 V7	SCHEMATICS	AVIONICS POWER
DRF	AIRLAB	14-002	INSTALLATION	CUSTOM HARDWARE
DRF	AIRLAB	14-001	SCHEMATICS	CUSTOM HARDWARE
DRF	AIRLAB	NAS1-16800 V2	TECHNICAL	DIGITAL AVIONICS
DRF	AIRLAB	NAS1-16800 V10	TECHNICAL	FLIGHT CONTROL
DRF	AIRLAB	NAS1-16800 V3	TECHNICAL	MAINTENANCE AIDS
DRF	AIRLAB	NAS1-16800 V8	TECHNICAL	NAVIGATION
DRF	AIRLAB	NAS1-16800 V9	B	PILOT COMMAND
DRF	AIRLAB	NAS1-16800 V1	TECHNICAL	RESEARCH COORDINATE
DRF	AIRLAB	NAS1-16800 V6	TECHNICAL	SENSORS RESEARCH
DRF	AIRLAB	NAS1-16800 V5	TECHNICAL	SURFACE CONTROLS
DRF	AIRLAB	NAS1-16800B	TECHNICAL	N/A
DRF	AIRLAB	NAS1-16899	TECHNICAL	N/A
DRF	AIRLAB	NAS1-16800 V0	TECHNICAL	N/A
DRF	AIRLAB	NAS1-16800A	TECHNICAL	N/A
DRUCK	DPI-100	N/A	B	CATALOG
DRUCK	DPI-201	N/A	B	CATALOG
DRUCK	DPI-220	N/A	B	CATALOG
DRUCK	DPI-250	N/A	B	CATALOG
DRUCK	DPI-400	N/A	B	CATALOG
DRUCK	DPI-500	N/A	B	CATALOG
DRUCK	DPT-600	N/A	B	CATALOG
DRUCK	PDCR-10	N/A	B	CATALOG
DRUCK	PDCR-10/D	N/A	B	CATALOG
DRUCK	PDCR-10/L	N/A	B	CATALOG
DRUCK	PDCR-10F	N/A	B	CATALOG

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DRUCK	PDCR-110/W	N/A	B	CATALOG
DRUCK	PDCR-120	N/A	B	CATALOG
DRUCK	PDCR-200	N/A	B	CATALOG
DRUCK	PDCR-22	N/A	B	CATALOG
DRUCK	PDCR-32	N/A	B	CATALOG
DRUCK	PDCR-330	N/A	B	CATALOG
DRUCK	PDCR-340	N/A	B	CATALOG
DRUCK	PDCR-42	N/A	B	CATALOG
DRUCK	PDCR-60	N/A	B	CATALOG
DRUCK	PDCR-60	N/A	B	CATALOG
DRUCK	PDCR-75	N/A	B	CATALOG
DRUCK	PDCR-81	N/A	B	CATALOG
DRUCK	PTX-110	N/A	B	CATALOG
DRUCK	PTX-120L	N/A	SERVICE	CATALOG
DRUCK	DPI-260	N/A	B	MAINTENANCE
DRUCK	DPI-500	N/A	B	MAINTENANCE
DRUCK	DPI-601	N/A	B	SPECIFICATION
DRUCK	DPI-140	N/A	B	N/A
DSD	DSD 880X/20/30	040034-01 REVB	X	WINCHESTER
DSD	480	040003-01	OPERATOR	N/A
DSD	440/480	040023-01	SERVICE	N/A
DSP	1020	N/A	N/A	N/A
DSP TECH	2012S	N/A	N/A	OPERATIONS & MAINTNENACE
DSP TECH	4101	N/A	N/A	REFERENCE MANUAL
DSP TECHNOLOGY	6001/6002	N/A	N/A	CAMAC CRATE CONTROLLER
DSP TECHNOLOGY	CC-DR11	N/A	TECHNICAL	REFERENCE MANUAL
DTM	120-105	10009	OPERATOR	VIDR DAS
DTZ	626-PA-6003	TM-110235U	SERVICE	3 PHASE AC MONITOR VOL 2
DTZ	626-PA-6009	TM-110650-V2	OPERATOR	3 PHASE AC MONITOR VOL 2
DTZ	626-PA-6009	TM-110650-V2	SERVICE	3 PHASE AC MONITOR VOL 2
DTZ	626-PA-6005	TM-111815 VOL 2	SERVICE	AC CURRENT MONITOR
DTZ	626-PA-6006	TM-110390AU VOL 2	OPERATOR	AC NEUTRAL MONITOR
DTZ	626-PA-6006	TM-110390AU VOL 2	SERVICE	AC NUETRAL MONITOR
DTZ	626-PA-6020	TM-111925AU VOL 2	B	BROADBAND MONITOR
DTZ	626-PA-6002A	TM-110385-UJ V2	SERVICE	DC MONITOR
DTZ	626-PA-6002A	TM-110385-UJ V2	SERVICE	DC MONITOR
DTZ	626	TM-106650U V1	OPERATOR	DISTURBANCE ANALYZER
DTZ	626	TM-106650U V2	OPERATOR	DISTURBANCE ANALYZER
DTZ	626	TM-106650U V2	SERVICE	DISTURBANCE ANALYZER
DTZ	626-PA-6001	TM-106705U VOL 2	SERVICE	SINGLE PHASE AC MONITOR
DTZ	626-PA-6009	TM-110650-V1	SERVICE	VOL 2- 3PHASE 400HZ AC MONITOR
DTZ	626-PA-6014	TM-111026-V2	SERVICE	VOL 2- 8-CHANNEL TEMP MONITOR
DTZ	626-PA-6008	TM-111025-V2	OPERATOR	VOL 2-TEMP AND HUMIDITY MONITOR
DTZ	626-PA-6008	TM-111025-V2	SERVICE	VOL 2-TEMP AND HUMIDITY MONITOR
DU WAGEN	LP-3-69	N/A	K	CATALOG
DUAL BEAM CATHODE	279	N/A	K	N/A
DUMONT	224	N/A	K	N/A
DUMONT	241	N/A	K	N/A
DUMONT	279	N/A	K	N/A
DUMONT	314	N/A	K	N/A
DUMONT	331	N/A	K	N/A
DUMONT	702	N/A	K	N/A
DUMONT	7412	N/A	K	N/A
DUMONT	7606	N/A	K	N/A
DUMONT	250A/AH	N/A	K	N/A
DUMONT	256D	N/A	K	N/A
DUMONT	264-A	N/A	K	N/A
DUMONT	271-A	N/A	K	N/A
DUMONT	304-A	N/A	K	N/A
DUMONT	322A/322	N/A	K	N/A
DUMONT	324/R & 333/R	N/A	K	N/A
DUMONT	398 299 302	N/A	K	N/A
DUMONT	401B/BR	N/A	K	N/A
DUMONT	411/R	N/A	K	N/A
DUMONT	704A	N/A	K	N/A
DUMONT	737A	N/A	K	N/A
DUMONT	74-93A ADDENDUM	N/A	K	N/A
DUMONT	781A	N/A	K	N/A
DUMONT	79-02A	N/A	K	N/A
DUMONT	OLD DMT. SCHEM.	N/A	OPERATOR	N/A
DUNE	DR-716	800804	OPERATOR	CORE MEMORY SYSTEM
DUNE	1921	801304	OPERATOR	CRT DRIVER
DUNE	CRTIM	801303	OPERATOR	CRT INTERFACE
DUNE	142M	801001	INSTALLATION	FLOPPY DISC DRIVE
DUNE	SA1000	SA1000	DIAGNOSTICS	MEMORY TEST PT 1
DUNE	SA2000	SA2000	N/A	PROCESSOR TEST
DUNE	PASLA	801313	DIAGNOSTICS	SINGLE LINE ADAPTER
DUNE	PASLA	801314	OPERATOR	SINGLE LINE ADAPTER
DUNE	1032D	UPDATE	TECHNICAL	N/A
DUNE	FLAIR	SM-10	SERVICE	N/A
DUPONT INST.	580	N/A	N/A	N/A
DUPONT INST.	24-038	N/A	L	N/A
DURANT	120	N/A	B	INSTALLATION-OPERATION
DWYER	2000	N/A	B	CATALOG
DWYER	3000	N/A	B	CATALOG
DWYER	450-AF	N/A	B	CATALOG
DWYER	MAGNETIC GAGES	N/A	SEE HPC 520	N/A
DYMC	DY-2010A	REF	X	N/A
DYMEC	DY-2901A	N/A	F	OPERATION/SERVICE
DYMEC	DY2110	N/A	X	N/A
DYMEC	DY-2460A	N/A	E	N/A
DYMO	M-22-M-220	N/A	E	N/A
DYNA SCIENCES	DM 330	N/A	E	OPERATION AND MAINTENANCE
DYNACO	410	N/A	X	3 MANUALS
DYNACO	MARK III-IV	N/A	X	N/A
DYNACO	PAT-4A	N/A	X	N/A
DYNACO	STERO-120A	N/A	X	N/A



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
DYNACO	STERO-80	N/A	X	N/A
DYNA-EMPIRE	D-855	N/A	E	INSTRUCTION
DYNA-EMPIRE	D-855	N/A	X	INSTRUCTION
DYNAIR	LDA-1A	N/A	X	N/A
DYNAIR	PS-1006B	N/A	X	N/A
DYNAMATIC	ACM9023-9053	N/A	E	N/A
DYNAMICS	6030	N/A	X	2 MANUALS
DYNAMICS	4550	N/A	X	OPERATING INSTRUCTIONS
DYNAMICS	7525	N/A	E	OPERATING INSTRUCTIONS
DYNAMICS	7525	N/A	E	OPERATING INSTRUCTIONS
DYNAMICS	7575	N/A	X	OPERATING INSTRUCTIONS
DYNAMICS	7202/PE	N/A	X	N/A
DYNAMICS	7302/PH	N/A	X	N/A
DYNAMICS	7514B/MX	N/A	X	N/A
DYNAMICS	7520A/D	N/A	E	N/A
DYNAMICS	7703/PD	N/A	D	N/A
DYNASCAN CORP.	1827	N/A	B	SERVICE
DYNASCIENCES	PS-616	N/A	B	2 MANUALS OF SCHEM. AND PARTS
DYNASCIENCES	300	N/A	B	CATALOG
DYNASCIENCES	400	N/A	B	CATALOG
DYNASCIENCES	700	N/A	K	CATALOG
DYNASCIENCES	CP143	N/A	B	CATALOG
DYNASCIENCES	CP51	N/A	B	CATALOG
DYNASCIENCES	CP52	N/A	B	CATALOG
DYNASCIENCES	DG-600D	N/A	B	CATALOG
DYNASCIENCES	DG-605D	N/A	X	CATALOG
DYNASCIENCES	FP801	N/A	B	CATALOG
DYNASCIENCES	KP15	N/A	B	CATALOG
DYNASCIENCES	P1	N/A	B	CATALOG
DYNASCIENCES	P109D	N/A	B	CATALOG
DYNASCIENCES	P2	N/A	B	CATALOG
DYNASCIENCES	P2-5000A	N/A	B	CATALOG
DYNASCIENCES	P2700A	N/A	B	CATALOG
DYNASCIENCES	P3D	N/A	B	CATALOG
DYNASCIENCES	P90	N/A	B	CATALOG
DYNASCIENCES	PC-125	N/A	X	CATALOG
DYNASCIENCES	PTD	N/A	N/A	CATALOG
DYNASCIENCES	854	N/A	H-X	N/A
DYNASCIENCES	BRJR18100TP80889	N/A	B	N/A
DYNASCIENCES	DG600D & 605D	N/A	B	N/A
DYNATECH	6200	N/A	H	INSTRUCTION
DYNATECH	116SRL	N/A	E	OPERATION
DYNATECH	TCFCM	N/A	H	OPERATION
DYNATECH	TCFCM	N/A	OPERATING	SCHEMATIC
DYNATECH	116	N/A	X	N/A
DYNATECH	116-SRL	N/A	H	N/A
DYNATECH CORP	116SRL	N/A	X	THERMOCOUPLE WELDER
DYNATRON	1808	N/A	K-X	N/A
DYNATRONICS	BPC-12A	N/A	H	N/A
DYNISCO	DP85	N/A	B	CATALOG
DYNISCO	DPT169	N/A	B	CATALOG
DYNISCO	DPT175	N/A	B	CATALOG
DYNISCO	DPT198	N/A	B	CATALOG
DYNISCO	DPT25	N/A	B	CATALOG
DYNISCO	DPT364	N/A	B	CATALOG
DYNISCO	DPT365	N/A	B	CATALOG
DYNISCO	DR680	N/A	B	CATALOG
DYNISCO	DR682	N/A	B	CATALOG
DYNISCO	DR690	N/A	B	CATALOG
DYNISCO	DR692	N/A	B	CATALOG
DYNISCO	ER660	N/A	B	CATALOG
DYNISCO	ER662	N/A	B	CATALOG
DYNISCO	FT10	N/A	B	CATALOG
DYNISCO	FT4	N/A	B	CATALOG
DYNISCO	PT110	N/A	B	CATALOG
DYNISCO	PT119H	N/A	B	CATALOG
DYNISCO	PT135	N/A	B	CATALOG
DYNISCO	PT136	N/A	B	CATALOG
DYNISCO	PT139	N/A	B	CATALOG
DYNISCO	PT155	N/A	B	CATALOG
DYNISCO	PT183B	N/A	B	CATALOG
DYNISCO	PT192	N/A	B	CATALOG
DYNISCO	PT193	N/A	B	CATALOG
DYNISCO	PT31	N/A	B	CATALOG
DYNISCO	PT310S	N/A	B	CATALOG
DYNISCO	PT311	N/A	B	CATALOG
DYNISCO	PT320S	N/A	B	CATALOG
DYNISCO	PT321S	N/A	B	CATALOG
DYNISCO	PT410	N/A	B	CATALOG
DYNISCO	PT412	N/A	B	CATALOG
DYNISCO	PT420	N/A	B	CATALOG
DYNISCO	PT422	N/A	B	CATALOG
DYNISCO	PT427	N/A	B	CATALOG
DYNISCO	PT440	N/A	B	CATALOG
DYNISCO	PT450	N/A	B	CATALOG
DYNISCO	PT49C	N/A	B	CATALOG
DYNISCO	PT76	N/A	B	CATALOG
DYNISCO	TPT432	N/A	K	CATALOG
DYNISCO	1000	N/A	B	OPERATION
DYNISCO	1000	N/A	H	OPERATION
DYNISCO	800	N/A	B	N/A
DYTRONICS	410	N/A	K-X	N/A
DYTRONICS	722/723	N/A	K	N/A
EAE	1412	1412	F	TECHNICAL THEORY AND SCHEMATICS
EAE	1412	1412	TECHNICAL	TECHNICAL THEORY AND SCHEMATICS
EAGLE SIGNAL DIV.	CT120-CT130	N/A	SEE SON 920	PARTS LIST AND SCHEMATICS
EAH	T16	REF	Q	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
EAI	99.658	N/A	Q	2 MANUALS
EAI	99.656 99.657	N/A	Q	2 MANUALS
EAI	99.662&99.662-1	N/A	B	2 MANUALS
EAI	75A	N/A	N/A	INSTRUCTION
EAI	12.791	N/A	Q	N/A
EAI	26.258	N/A	Q	N/A
EAI	95.134	N/A	Q	N/A
EAI	1100/1110	N/A	Q	N/A
EAI	3100/3110	N/A	E	N/A
EAI	75A	N/A	Q	N/A
EATON	UPC-5100	N/A	I	N/A
EBERLINE INST. CORP.	PAC-45A	N/A	I	2 FOLDERS/1 MANUAL
EBERLINE INST. CORP.	FN-1A	N/A	I	2 MANUALS
EBERLINE INST. CORP.	HP-177B	N/A	I	N/A
EBERLINE INST. CORP.	RM-3A	N/A	E	N/A
ECD	100	N/A	C	1 MANUAL/2 "EXTRA" BROCHURES
ECD	100	N/A	X	INSTRUCTION
ECOLOCHEM	E100	N/A	N/A	SERVICE
ECONOSPECT CORP.	MS-27D	N/A	N/A	OPERATION/SERVICE
ECTRON	1100	N/A	N/A	OPERATION AND SERVICE MANUAL
ECTRON	1120	N/A	X	SERVICE
ECTRON	1120	N/A	H	THERMOCOUPLE CALIB.
ECTRON	614	N/A	N/A	N/A
ECTRON CORP.	750 SERIES	N/A	X	INSTRUCTION MANUAL
EDC	MV100N	N/A	E	1 MANUAL/3 "EXTRA" BROCHURES
EDC	100	N/A	E	CAPACITANCE METER
EDC	MV100	N/A	X	INSTRUCTION
EDC	MV105	N/A	E	INSTRUCTION & MAINTENANCE
EDC	MV106	N/A	E	INSTRUCTION & MAINTENANCE
EDC	MV106	N/A	E	INSTRUCTION & MAINTENANCE
EDC	MV106	N/A	E	INSTRUCTION & MAINTENANCE
EDC	501H	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	501J	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	501J	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	501J	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	501J	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	501J-B	N/A	E	INSTRUCTION AND MAINTENANCE
EDC	MV100N	N/A	X	INSTRUCTION AND MAINTENANCE
EDC	520	N/A	E	OPERATORS
EDC	1030	N/A	SERVICE	OPERATORS
EDC	520A	N/A	E	OPERATORS
EDC	520A	N/A	E	OPERATORS
EDC	520B	N/A	E	OPERATORS
EDC	520C/D	N/A	E	OPERATORS
EDC	CR103	N/A	E	OPERATORS
EDC	501	SERIES J	E	VOLTAGE STANDARD
EDC	MV100N/A	N/A	E	N/A
EDEVCO	3000	N/A	INSTRUCTION	INSTRUCTION
EDGE TECH AKA EG&G	137-C3	N/A	E	AIRCRAFT HYGROMETER SYSTEM TM73-244
EDISON	226	N/A	H	OPERATION
EDISON	OMIGUARD 6100	N/A	H	OPERATION/SERVICE
EDISON	OMIGUARD 6100	N/A	X	SCHEMATIC
EDISON ENVOY COMPACT	N/A	N/A	X	SCHEMATIC DIAGRAM/NO MODEL #
EDMAC	8010A	N/A	K	2 MANUALS/1 SCHEMATIC
EDMAC	8030	N/A	K	SCHEMATICS INCLUDED
EDMAC	8010A	N/A	K	N/A
EDMAC	8030A	N/A	D	N/A
EDMUND SCIENTIFIC CO	79.004-79.009	N/A	N/A	WARRANTY INCLUDED
EDWARD HIGH VACUUM	E2M8	N/A	K	N/A
EDWARDS	1	N/A	X	N/A
EECO	762	N/A	K	N/A
EECO	762	N/A	X	N/A
EEV CO.	P4310	N/A	X	N/A
EF JOHNSON CO.	VIKING CHALL.	N/A	G	2 MANUALS
EG&G	590	N/A	H	2 MANUALS/1 SCHEMATIC
EG&G	450	N/A	X	INSTRUCTION
EG&G	580	N/A	D	INSTRUCTION
EG&G	660	N/A	H	INSTRUCTION
EG&G	880	N/A	H	INSTRUCTION
EG&G	911	N/A	H	INSTRUCTION
EG&G	560B	N/A	G	INSTRUCTION
EG&G	560B	N/A	G	INSTRUCTION
EG&G	5302	N/A	D	INSTRUCTION MANUAL
EG&G	194	N/A	H	OPERATION
EG&G	300	N/A	G	OPERATION
EG&G	300	N/A	H	OPERATION
EG&G	300	N/A	H	OPERATION
EG&G	880	N/A	H	OPERATION
EG&G	911	N/A	H	OPERATION
EG&G	911	N/A	H	OPERATION
EG&G	992	N/A	H	OPERATION
EG&G	1120	N/A	H	OPERATION
EG&G	TM-11A	N/A	N/A	OPERATIONS MANUAL
EG&G	137	N/A	X	SCHEMATIC
EG&G	660	N/A	H	SCHEMATIC
EG&G	194	N/A	G	SERVICE
EG&G	990	N/A	H	SERVICE
EG&G	992	N/A	H	SERVICE
EG&G	992	N/A	N/A	SERVICE
EG&G	136-G2	N/A	H	SERVICE
EG&G	165	N/A	G	N/A
EG&G	549	N/A	G	N/A
EG&G ORTEC	9315	N/A	K	OPERATING AND SERVICE MANUAL
EG&G ORTEC	425A	N/A	N/A	OPERATIONS & SERVICE MANUAL
EG&G ORTEC	427A	N/A	SERVICE	OPERATIONS & SERVICE MANUAL
EG&G ORTEC	DB463	N/A	K	N/A
EG&G PAR	200	N/A	X	INSTRUCTION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
EG&G PAR	214	N/A	X	INSTRUCTION
EG&G PAR	220	N/A	INSTRUMENTATION	INSTRUCTION
EG&G PAR	9650	N/A	E	INSTRUMENTATION
EG&G PAR	115	N/A	OS	OPERATION & SERVICE MANUAL
EG&G PAR	186A	N/A	X	OPERATOR/SERVICE
E-H RESEARCH LAB	130	N/A	K	2 MANUALS
E-H RESEARCH LAB	135A	N/A	K	3 MANUALS
E-H RESEARCH LAB	132A	N/A	K	4 MANUALS
E-H RESEARCH LAB	122	N/A	K	N/A
E-H RESEARCH LAB	139	N/A	K	N/A
E-H RESEARCH LAB	1030/1033	N/A	K	N/A
E-H RESEARCH LAB	G710	N/A	E	N/A
E-H RESEARCH LABS	G750	N/A	X	INSTRUCTIONS MANUAL
EICO	1171	N/A	E	INSTRUCTION
EICO	1171	N/A	E	INSTRUCTION
EICO	1171	N/A	X	INSTRUCTION
EICO	955	N/A	K	N/A
EIGEN	16-10	N/A	SERVICE	N/A
EKC	XL7700	SM2812	N/A	SERVICE MANUAL FOR XL7700 AND XLT7720
EL-4	144A	N/A	H	N/A
ELCOR INCORP.	A310B	N/A	F	3 MANUALS
ELCOR INCORP.	A308	N/A	X	N/A
ELCOR INCORP.	A309A	N/A	X	N/A
ELCOR INCORP.	A309B	N/A	X	N/A
ELDERADO ELECTRON.	900 SERIES	N/A	F	2 MANUALS
ELDERADO ELECTRON.	793	N/A	F	N/A
ELDERADO ELECTRON.	985 1986	N/A	X	N/A
ELDERADO ELECTRON.	CI-110	N/A	K	N/A
ELDICO	R-100	N/A	K	N/A
ELEC&SYS POTTER MET.	646 SP442	N/A	X	N/A
ELECT P.M.	L63-9321	N/A	K/W	N/A
ELECT. MEASUREMENTS	204A	N/A	X	2 MANUALS
ELECT. MEASUREMENTS	208A	N/A	X	2 MANUALS
ELECT. MEASUREMENTS	700	N/A	X	N/A
ELECT. MEASUREMENTS	200B	N/A	X	N/A
ELECT. MEASUREMENTS	212AK	N/A	X	N/A
ELECT. MEASUREMENTS	214AMR	N/A	X	N/A
ELECT. MEASUREMENTS	221AMK	N/A	X	N/A
ELECT. MEASUREMENTS	238AMK	N/A	X	N/A
ELECT. MEASUREMENTS	A200	N/A	X	N/A
ELECT. MEASUREMENTS	A300	N/A	X	N/A
ELECT. MEASUREMENTS	C612	N/A	X	N/A
ELECT. MEASUREMENTS	C612AK	N/A	X	N/A
ELECT. MEASUREMENTS	C624	N/A	X	N/A
ELECT. MEASUREMENTS	C626CMK	N/A	X	N/A
ELECT. MEASUREMENTS	C636C	N/A	X	N/A
ELECT. MEASUREMENTS	HV150-3	N/A	X	N/A
ELECT. MEASUREMENTS	HV150-3M	N/A	X	N/A
ELECT. MEASUREMENTS	PRO40-2M	N/A	X	N/A
ELECT. MEASUREMENTS	T014-10M	N/A	X	N/A
ELECT. MEASUREMENTS	T036-30M	N/A	X	N/A
ELECT. NAVG. INDUST.	2100L	N/A	X	POWER AMP.
ELECT. PROCESSES	1400A	N/A	X	N/A
ELECT. RES. ASSOC.	110	N/A	F	N/A
ELECT. RES. ASSOC.	2300	N/A	F	N/A
ELECT. RES. ASSOC.	2440	N/A	F	N/A
ELECT. RES. ASSOC.	2450	N/A	F	N/A
ELECT. RES. ASSOC.	2600	N/A	F	N/A
ELECT. RES. ASSOC.	2700	N/A	X	N/A
ELECT. RES. ASSOC.	4000	N/A	X	N/A
ELECT. RES. ASSOC.	FC1004RS	N/A	X	N/A
ELECT. RES. ASSOC.	SR15P5	N/A	X	N/A
ELECT. RES. ASSOC.	TR 36-12M	N/A	K	N/A
ELECT. SECT. COMM.	HA36EM-2104-A	N/A	K	DIAGRAM
ELECT. TUBE CORP.	K-260	N/A	PRODUCT DATA	N/A
ELECT-MECH. RESEARCH	95D&F	N/A	W/K	2 MANUALS
ELECT-MECH. RESEARCH	96D/F	N/A	K/W	2 MANUALS
ELECT-MECH. RESEARCH	27A	N/A	K/W	N/A
ELECT-MECH. RESEARCH	36B	N/A	K/W	N/A
ELECT-MECH. RESEARCH	62A	N/A	K/W	N/A
ELECT-MECH. RESEARCH	97A D&F	N/A	K/W	N/A
ELECT-MECH. RESEARCH	97G&A	N/A	X	N/A
ELECTO-LITE CORP.	ELC-250	N/A	F	PRODUCT DATA
ELECTRO INDUSTRIES	DMMS-100	N/A	X	OPERATION SERVICE & PROGRAMMING MANUAL
ELECTRO INSTRUMENT	883	N/A	X	2 MANUALS
ELECTRO INSTRUMENT	500	N/A	X	N/A
ELECTRO INSTRUMENT	300T	N/A	W	N/A
ELECTRO INSTRUMENT	A20-B	N/A	X	N/A
ELECTRO INTL.	723A	N/A	X	N/A
ELECTRO INTL.	ALPHA II	N/A	X	N/A
ELECTRO INTL.	PLT-1/PPAC	N/A	G	N/A
ELECTRO OPTICAL	215	N/A	G	INSTRUCTION
ELECTRO OPTICAL	216	N/A	G	INSTRUCTION
ELECTRO OPTICAL	252	N/A	G	INSTRUCTION
ELECTRO OPTICAL	254	N/A	X	INSTRUCTION
ELECTRO OPTICAL	1704V	N/A	G	INSTRUCTION
ELECTRO OPTICAL	1704V	N/A	G	INSTRUCTION
ELECTRO OPTICAL	F205B	N/A	G	INSTRUCTION
ELECTRO OPTICAL	P1401	N/A	G	INSTRUCTION
ELECTRO OPTICAL	P1404A	N/A	G	INSTRUCTION
ELECTRO OPTICAL	WS123	N/A	G	INSTRUCTION
ELECTRO OPTICAL	WS133	N/A	X	INSTRUCTION
ELECTRO OPTICAL	305	N/A	G	N/A
ELECTRO PRODUCTS	3600	N/A	X	2 MANUALS
ELECTRO PRODUCTS	NFB/NFBR	N/A	X	N/A
ELECTRO-MECH./RES.	223B & 223G	N/A	X	2 MANUALS
ELECTRO-MECH./RES.	222A-03-0999A	N/A	X	INSTRUCTION MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ELECTRO-MECH./RES.	223B 223C F G	N/A	X	INSTRUCTION MANUAL (3)
ELECTRO-MECH./RES.	4005-04-0-C2376A	N/A	X	INSTRUCTION MANUAL (3)
ELECTRO-MECH./RES.	210	N/A	X	N/A
ELECTRO-MECH./RES.	230	N/A	X	N/A
ELECTRO-MECH./RES.	4024	N/A	X	N/A
ELECTRO-MECH./RES.	4140	N/A	D	N/A
ELECTRO-MECH./RES.	287A-02	N/A	X	N/A
ELECTRONIC DEV.CORP.	MV 116 MV 106	N/A	W	N/A
ELECTRONIC ENG.	812	N/A	X	N/A
ELECTRONIC ENG.	4000	N/A	D	N/A
ELECTRONIC MEMORIES	102 103 104	N/A	H	N/A
ELECTRONIC PROCESSES	1400	N/A	Q	N/A
ELECTRONIC SOLUTIONS	MC757	N/A	X	N/A
ELECTRO-OPTICS DIV.	583	N/A	X	2 MANUALS
ELECTRO-OPTICS DIV.	450	N/A	X	N/A
ELECTRO-OPTICS DIV.	456	N/A	D	N/A
ELECTRO-OPTICS DIV.	457	N/A	X	N/A
ELECTRO-OPTICS DIV.	556	N/A	D	N/A
ELG ENCO	311A	N/A	X	N/A
ELG ENCO	610A	N/A	X	N/A
ELGAR CORP.	6000	N/A	X	3 MANUALS
ELGAR CORP.	6000B	N/A	X	4 MANUALS
ELGAR CORP.	3000A & 5000A	N/A	X	N/A
ELKSNIN	HIGH G	N/A	X	N/A
ELLIS ASSOCIATES	BA-1	N/A	X	N/A
ELMAC DIV. OF VARIAN	AC 1000C	N/A	X	N/A
ELMAC DIV. OF VARIAN	CR-100R	N/A	X	N/A
ELMAC DIV. OF VARIAN	P-1505-71/72	N/A	X	N/A
ELMAC DIV. OF VARIAN	RVM100	N/A	X	N/A
ELMAC DIV. OF VARIAN	VS111P-S	N/A	X	N/A
EL-TRONIC	301	N/A	X	TECHNICAL NOTE
EMI	BOS/S 100-4	N/A	U	OPERATION/SERVICE
EMI-SE LABS	SE 3000	N/A	U	N/A
EMI-SE LABS	SE 7000	N/A	INSTALLATION	N/A
EML	CS21/F	CS2151012A	TECHNICAL	COMMUNICATIONS CONTROLLER
EML	CS02/H	VX9950928A	TECHNICAL	DIAGNOSTICS
EML	CS23/CS04E1	VX9950920A	DIAGNOSTIC	DIAGNOSTICS
EML	IQCO9	VX9950930-00B	DIAGNOSTIC	DIAGNOSTICS
EML	QXXX	VX9951904-00	TECHNICAL	DIAGNOSTICS
EML	Q.KIT	VX9951904-00T	INSTALLATION	DISK CONTROLLER
EML	QD32	QD3251002-00	TECHNICAL	DISK CONTROLLER
EML	QD33	QD3351001-00	SERVICE	DISK CONTROLLER
EML	QT12/TC03 TS11	VX9950905D	SERVICE	DISK CONTROLLER DIAGNOSTICS
EML	SC31/BX	SC3151001F	TECHNICAL	DISK CONTROLLER TECH
EML	QD21	QD2151002-00E	TECHNICAL	DISK CONTROLLER UPDATED TO REV E
EML	QD01/QD21	QD0152403-00F	TECHNICAL	DISK CONTROLLER UPDATED TO REV F
EML	UD3X	VX9950901-00	DIAGNOSTIC	EMULEX VAX MONITOR (EVM)
EML	FMD000	VX9950902-00	DIAGNOSTIC	FMD000 MASSBUS DISK FORMATTER
EML	FUD 31	VX9950904-00	USER	FUD31 UNIBUS DISK FORMATTER
EML	UC17 UC18	UC1751001-00	TECHNICAL	INSTALLATION SETUP OPERATION TECH INFO
EML	QD32	QD3251001	TECHNICAL MANUAL	INSTALLATION/PROGRAMMING/INTERFACE
EML	UD3X	VX9950905-00	DIAGNOSTIC	IVV000 VAX CONFIGURATION UTILITY
EML	FUD41M	VX9950909-00	DIAGNOSTIC	MSCP DISK FORMATTER
EML	CS21/F	CS2151012B	INSTALLATION	MUX
EML	UD33 SMD-E	REF	DIAGNOSTIC	PA8XX DISK DRIVE EMD/SABRE
EML	FVDMS	VX9950931-00B	DIAGNOSTIC	PREPARATION
EML	QD34	QD3450901-00	DIAGNOSTICS	QD34 DISK CONTROLLER
EML	TC02	TC0251002G	TECHNICAL	TAPE CONTROLLER QBUS
EML	QD21	QD215001-00C	TECHNICAL	TECHNICAL SERVICE
EML	QD33	QD3351002-00F	TECHNICAL	TECHNICAL SERVICE
EML	TC03	TC0351001-00	TECHNICAL	TS11 COMPATABLE
EML	QT12/TC03	VX9950916C	INSTALLATION	TS11 EMULATION
EML	FVD03M	VX9950917-00	DIAGNOSTIC	UCXX MSCP DISK FORMATTER
EML	UD33	UD3351001-00	SEE CDC #	UD33 DISK CONTROLLER
EML	UD3X	VX9951901-00	SCHEMATICS	UD3X DIAGNOSTIC KIT
EML	FUD31	VX9950904-00	DIAGNOSTIC	UNIBUS DISK FORMATTER
EML	FUD41	VX9950909-00	N/A	UNIBUS MSCP DISK FORMATTER
EML	IMD000	VX9950912-00	INSTALLATION	VAX MASSBUS INSTALLATION DIAGNOSTIC
EML	IUD31	VX9950921-00	DIAGNOSTICS	VAX UNIBUS INSTALLATION DIAGNOSTIC
EML	FVD32M	VX9950918-00	DIAGNOSTICS	VAX/MICROVAX MSCP DISK FORMATTER
EML	W3151/BX	SU3110601	SERVICE	N/A
EMO	M8750	240-010-550E	SERVICE	SERVICE DESCRIPTION M5750
EMO	VAX730/750	210030550REVC	X	N/A
EMR	64	N/A	K	N/A
EMR	4130	N/A	X	N/A
EMR	4167	N/A	X	N/A
EMR	4520	N/A	X	N/A
EMR	4820	N/A	X	N/A
EMR	222A-03-13579A	N/A	X	N/A
EMR TELEMETRY	101A & 101B	N/A	SERVICE	N/A
EMRI	1641/1642	1641/1642	SERVICE	VOL 1
EMRI	1641/1642	1641/1642	SERVICE	VOL 2
EMRI	1641/1642A	1641/1642	R	N/A
ENDEVCO	7264	N/A	B	ACCEL
ENDEVCO	5200M1	N/A	R	ACCEL
ENDEVCO	7213C-750	N/A	R	ACCEL
ENDEVCO	7232C-750	N/A	R	ACCEL
ENDEVCO	CATALOG	N/A	R	ACCELEROMETERS
ENDEVCO	22	N/A	R	ACCELE'S
ENDEVCO	2200	N/A	X	ACCELE'S
ENDEVCO	2222	N/A	R	ACCELE'S
ENDEVCO	2225	N/A	R	ACCELE'S
ENDEVCO	2250	N/A	E	ACCELE'S
ENDEVCO	2264	N/A	B	ACCELE'S
ENDEVCO	2214B	N/A	R	ACCELE'S
ENDEVCO	2224C	N/A	R	ACCELE'S
ENDEVCO	2246M15	N/A	R	ACCELE'S

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ENDEVCO	2260/C	N/A	R	ACCELE'S
ENDEVCO	2261M6	N/A	R	ACCELE'S
ENDEVCO	SRB-200	N/A	B	ACCELE'S
ENDEVCO	4471.1	N/A	E	AMP.
ENDEVCO	2718A	N/A	E	AMP.
ENDEVCO	2503	N/A	E	CATALOG
ENDEVCO	8506B-15	N/A	B	CATALOG
ENDEVCO	8506B-2	N/A	B	CATALOG
ENDEVCO	8506B-5	N/A	B	CATALOG
ENDEVCO	8506B-50	N/A	B	CATALOG
ENDEVCO	8507-10M16	N/A	B	CATALOG
ENDEVCO	8507B-15	N/A	B	CATALOG
ENDEVCO	8507B-2	N/A	B	CATALOG
ENDEVCO	8507B-5	N/A	B	CATALOG
ENDEVCO	8507B-50	N/A	B	CATALOG
ENDEVCO	8510B-100	N/A	B	CATALOG
ENDEVCO	8510B-1000	N/A	B	CATALOG
ENDEVCO	8510B-15	N/A	B	CATALOG
ENDEVCO	8510B-2	N/A	B	CATALOG
ENDEVCO	8510B-200	N/A	B	CATALOG
ENDEVCO	8510B-2000	N/A	B	CATALOG
ENDEVCO	8510B-5	N/A	B	CATALOG
ENDEVCO	8510B-50	N/A	B	CATALOG
ENDEVCO	8510B-500	N/A	B	CATALOG
ENDEVCO	8511A-10K	N/A	B	CATALOG
ENDEVCO	8511A-20K	N/A	B	CATALOG
ENDEVCO	8511A-5K	N/A	B	CATALOG
ENDEVCO	8514A-10	N/A	B	CATALOG
ENDEVCO	8514A-100	N/A	B	CATALOG
ENDEVCO	8514A-20	N/A	B	CATALOG
ENDEVCO	8514A-50	N/A	B	CATALOG
ENDEVCO	8515-15M14	N/A	B	CATALOG
ENDEVCO	8515A-15A	N/A	B	CATALOG
ENDEVCO	8515A-50A	N/A	B	CATALOG
ENDEVCO	8515A-50S	N/A	B	CATALOG
ENDEVCO	8515B	N/A	B	CATALOG
ENDEVCO	8520-10	N/A	B	CATALOG
ENDEVCO	8520-100	N/A	B	CATALOG
ENDEVCO	8520-20	N/A	B	CATALOG
ENDEVCO	8520-200	N/A	B	CATALOG
ENDEVCO	8520-50	N/A	B	CATALOG
ENDEVCO	8520-500	N/A	B	CATALOG
ENDEVCO	8530A-100	N/A	B	CATALOG
ENDEVCO	8530A-1000	N/A	B	CATALOG
ENDEVCO	8530A-15	N/A	B	CATALOG
ENDEVCO	8530A-200	N/A	B	CATALOG
ENDEVCO	8530A-50	N/A	B	CATALOG
ENDEVCO	8530A-500	N/A	B	CATALOG
ENDEVCO	8534A-10	N/A	B	CATALOG
ENDEVCO	8534A-100	N/A	B	CATALOG
ENDEVCO	8534A-20	N/A	B	CATALOG
ENDEVCO	8534A-50	N/A	B	CATALOG
ENDEVCO	8536-10	N/A	B	CATALOG
ENDEVCO	8536-100	N/A	B	CATALOG
ENDEVCO	8536-20	N/A	B	CATALOG
ENDEVCO	8536-50	N/A	R	CATALOG
ENDEVCO	TP-239	N/A	M	CATALOG
ENDEVCO	2607	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2607	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2709	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2718	N/A	X	INSTRUCTION MANUAL
ENDEVCO	2730	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2954	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4470	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4470	N/A	X	INSTRUCTION MANUAL
ENDEVCO	4476.2	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2628A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2640M6	N/A	E	INSTRUCTION MANUAL
ENDEVCO	2708M2	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4416A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4471.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4476.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4476.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4476.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4476.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4478.1A	N/A	E	INSTRUCTION MANUAL
ENDEVCO	4478.1A	N/A	R	INSTRUCTION MANUAL
ENDEVCO	2250A/2250AM	N/A	R	SPECIFICATION DATA
ENDEVCO	2710/2711/2712	N/A	E	SPECIFICATION DATA
ENDEVCO CORP.	2200	N/A	X	N/A
ENDEVCO CORP.	2600	N/A	X	N/A
ENDEVCO CORP.	2607	N/A	X	N/A
ENDEVCO CORP.	2614	N/A	X	N/A
ENDEVCO CORP.	2615	N/A	X	N/A
ENDEVCO CORP.	2623	N/A	X	N/A
ENDEVCO CORP.	2103 2104	N/A	M	N/A
ENDEVCO CORP.	2614B	N/A	X	N/A
ENDEVCO CORP.	2702C	N/A	OPERATING	N/A
ENDRESS+HAUSER	2250 SERIES	N/A	L	RH ANALYZER
ENG. MEASUREMENT	RS-1	N/A	M	N/A
ENG. MEASUREMENT	RS-1	N/A	N/A	N/A
ENI	240L	N/A	N/A	INSTRUCTIONS MANUAL
ENI	550L	N/A	N	INSTRUCTIONS MANUAL
ENI	310L	N/A	N/A	OPERATING & SERVICE MANUAL
ENI	2100L	N/A	N/A	OPERATING SERVICE MANUAL
ENI	310L	N/A	N/A	OPERATION & SERVICE MANUAL
ENI	325LA	N/A	N/A	OPERATIONS & SERVICE MANUAL
ENI	300L	N/A	N/A	OPERATORS MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ENMENT	OMA-10	N/A	TECHNICAL SCHEMATICS	N/A
ENR	MM-1222/1225	MM1222	R	DIAGRAMS TROUBLE SHOOTING
ENTRAN	EPA-125	N/A	B	CATALOG
ENTRAN	EPB-125	N/A	B	CATALOG
ENTRAN	EPB-318	N/A	B	CATALOG
ENTRAN	EPG-1016	N/A	B	CATALOG
ENTRAN	EPG-400	N/A	B	CATALOG
ENTRAN	EPI-050	N/A	B	CATALOG
ENTRAN	EPI-060	N/A	B	CATALOG
ENTRAN	EPI-070	N/A	B	CATALOG
ENTRAN	EPI-080	N/A	B	CATALOG
ENTRAN	EPI-127	N/A	B	CATALOG
ENTRAN	EPI-152	N/A	B	CATALOG
ENTRAN	EPI-178	N/A	B	CATALOG
ENTRAN	EPI-203	N/A	B	CATALOG
ENTRAN	EPL-125	N/A	B	CATALOG
ENTRAN	EPL-200	N/A	B	CATALOG
ENTRAN	EPL-318	N/A	B	CATALOG
ENTRAN	EPL-508	N/A	B	CATALOG
ENTRAN	EPN-300	N/A	B	CATALOG
ENTRAN	EPN-762	N/A	B	CATALOG
ENTRAN	EPNM	N/A	B	CATALOG
ENTRAN	EPV-1000	N/A	B	CATALOG
ENTRAN	EPV-1270	N/A	B	CATALOG
ENTRAN	EPV-250	N/A	B	CATALOG
ENTRAN	EPV-501	N/A	B	CATALOG
ENTRAN	EPV-635	N/A	B	CATALOG
ENTRAN	EPX-10	N/A	B	CATALOG
ENTRAN	EPXAM	N/A	B	CATALOG
ENTRAN	EPXH-14	N/A	B	CATALOG
ENTRAN	EPXH-251	N/A	B	CATALOG
ENTRAN	EPXH-38	N/A	B	CATALOG
ENTRAN	EPXH-M10	N/A	B	CATALOG
ENTRAN	EPXH-M6	N/A	B	CATALOG
ENTRAN	EPX-M5	N/A	B	CATALOG
ENTRAN	PV	N/A	B	CATALOG
ENTRAN	PX	N/A	TECHNICAL	CATALOG
ENTRAN	CATALOG	N/A	B	VARIOUS MODELS OF ACCELS (SPECS)
EPA	FX80+/100+/85+	P8590018-1	OPERATOR	ALSO FX185+
EPA	FX-850/1050	M-TM-FX8510	TECHNICAL	DOT MATRIX PRINTERS
EPA	PX-8	H8490021-1	TECHNICAL	MAINT. PRINTS
EPA	FX-80	P8294021-1	OPERATOR	OPTION-INTELLIGENT INTERFACE
EPA	FX-80	Y49299108005	SERVICE	OPTION-SERIAL INTERFACE
EPA	LQ-870	PL-LQ870	TECHNICAL	PARTS PRICE LIST
EPA	FX80	M-PL-FX80	SERVICE	PRICE LIST
EPA	FX80	M-PL-FX80	TECHNICAL	PRICE LIST
EPA	FX100	P8390052	CATALOG	PRINTER
EPA	FX80	P82900130-0	CATALOG	PRINTER
EPA	MX80	0-932760-04-X	OPERATOR	PRINTER
EPA	MX80	P8000001 REVA	OPERATOR	PRINTER
EPA	LQ-500/LQ-1000	LQ-500/LQ-1000	PARTS LIST	REV A
EPA	MX80	P8090025	TECHNICAL	RS232/CL INTERFACE 8040/1 SERVICE
EPA	EX-800/1000	M-TM-EX8/1T	TECHNICAL	SCHEMATIC
EPA	LX800	M-TM-L/A8T	SERVICE	SCHEMATICS
EPA	MCH-4095-E	M-TM-EGACM	TECHNICAL	SCHEMATICS 4090 CROSS TO GOLDSTAR OR SAMSUNG
EPA	FX80	M-TM-FX80	TECHNICAL	SCHEMATICS IPB THEORY
EPA	FX-80	P824021-1	OPERATOR	SERIAL INTERFACE
EPA	LQ850	M-TM-LQ850	SERVICE	SERVICE AND TECHNICAL MANUAL
EPA	MX-100	M-3360	SERVICE	SERVICE IPB LOGIC
EPA	MBM-2095-E	M-TM-EQIMM	SERVICE	SERVICE/SCHEMATIC EPSON EQUITY-1 MONO
EPA	FX-80	CP708940	OPERATOR	TECHNICAL SERVICE DATA-SAMS
EPA	MX100	CP208908	TECHNICAL	TECHNICAL SERVICE DATA-SAMS
EPA	RX80	CP908945	J	TECHNICAL SERVICE DATA-SAMS
EPA	FX-100	CP1108950	TECHNICAL	TECHNICAL-SERVICE DATA-SAMS
EPA	MX-80IIIFT	CP108904	TECHNICAL	TECHNICAL-SERVICE DATA-SAMS
EPA	MX80	REF	SERVICE	TROUBLESHOOTING
EPA	FX-80	Y46199112004	SERVICE	USERS MANUAL
EPA	FX850/1050	Y46199101003	TECHNICAL	USERS MANUAL
EPA	MX80	0-932760-04-X	SEE IBM 320.1	USERS MANUAL
EPA	EX-800/1000	Y444999030C	SERVICE	W/SCHEMATIC
EPA	EQUITY 2+	Y16299900203	TECHNICAL	N/A
EPA	FX-286	M-TM-FX286	OPERATOR	N/A
EPA	FX-80	P8294014-1	OPERATOR	N/A
EPA	JX-80	P8490032-1	TECHNICAL	N/A
EPA	LQ-1500	P8390080-0	SERVICE	N/A
EPA	LQ2500	M-TM-LQ25007	SERVICE AND TECHNICAL	N/A
EPA	LQ-500	M-TM-LQ500T	OPERATOR	N/A
EPA	LQ-500	YS6699101001	TECHNICAL	N/A
EPA	MX100	P8190033A	TECHNICAL	N/A
EPA	QX10	Q8290001-1	TECHNICAL	N/A
EPI	575 & 578	N/A	X	N/A
EPSCO	VRS 611	N/A	X	INSTRUCTION MANUAL
EPSCO	DV-803	N/A	E	N/A
EPSCO	VRS611 B C	N/A	H	N/A
EPSON	RS 232C	N/A	X	1 OPTION MANUAL
EPSON	FXt SERIES V-1	N/A	Q	3 USERS MANUALS
EPSON	FXt SERIES V-2	N/A	Q	3 USERS MANUALS
EPSON	FX-850/1050	N/A	N/A	M00860/PRINTER COMPUTER
EPSON	FX-850/1050	N/A	Q	M00861/PRINTER COMPUTER
EPSON	FX-86E/286E	N/A	X-Q	M00862/PRINTER COMPUTER
EPSON	FX-850/1050	N/A	N/A	M00865/PRINTER COMPUTER
EPSON	EP101	N/A	Q	PARTS LIST
EPSON	FX-86E	N/A	N/A	PRINTER
EPSON	FX SERIES	N/A	N/A	N/A
EPSON	FX850/1050	N/A	Q	N/A
ERA TRANSPAC CORP.	TS G4R	N/A	E	1 SCHEMATIC DIAGRAM
ERC	4000	N/A	E	INSTRUCTION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ERC	4000	N/A	T	INSTRUCTION
ERC	9500	N/A	N/A	SCHEMATIC
ERC	2300	N/A	E	SPECIFICATION DATA
ERC	2400	N/A	E	SPECIFICATION DATA
ERC	2500	N/A	E	SPECIFICATION DATA
ERC	2600	N/A	E	SPECIFICATION DATA
ERC	2710	N/A	E	SPECIFICATION DATA
ERC	2800	N/A	E	SPECIFICATION DATA
ERC	2900	N/A	E	SPECIFICATION DATA
ERC	2440/2450	N/A	E	SPECIFICATION DATA
ERNST LEITZ	2125834	N/A	E	N/A
ESI	DT72A	N/A	E	INSTRUCTION
ESI	RS925D	N/A	E	INSTRUCTION
ESI	RV722	N/A	E	INSTRUCTION
ESI	SR1010	N/A	E	INSTRUCTION
ESI	SR104	N/A	E	INSTRUCTION
ESI	252	N/A	E	INSTRUCTION MANUAL
ESI	801	N/A	E	INSTRUCTION MANUAL
ESI	874	N/A	E	INSTRUCTION MANUAL
ESI	231C	N/A	E	INSTRUCTION MANUAL
ESI	250DE	N/A	E	INSTRUCTION MANUAL
ESI	DC57	N/A	E	INSTRUCTION SHEET
ESI	4100	N/A	E	OWNER'S MANUAL
ESTERLINE ANGUS	A601C	N/A	E	MAINTENANCE INSTRUCTIONS
ESTERLINE ANGUS	2520B	N/A	E	OPERATING INSTRUCTIONS
ESTERLINE ANGUS	2520B	N/A	E	OPERATING INSTRUCTIONS
ESTERLINE ANGUS	RECO. WATTMETERS	N/A	W	OPERATING INSTRUCTIONS
ESTERLINE ANGUS	S-SERIES	N/A	X	N/A
ETI MICRO	8100	N/A	R	N/A
ETRAM	ACCELEROMETERS	N/A	T	N/A
EUROTHERM	96	N/A	N/A	INSTRUCTION
EUROTHERM	211	N/A	T	MAINTENANCE
EUROTHERM	140/1/2/3	N/A	T	MAINTENANCE
EUROTHERM	919	N/A	T	OPERATION/SERVICE
EUROTHERM	990	N/A	X	OPERATION/SERVICE
EUROTHERM	125/126	N/A	T	OPERATION/SERVICE
EUROTHERM	96	N/A	T	TEMPERATURE CONTROLLER
EVENTIDE	JJ193	N/A	S	N/A
EVERETZ	ECM4010	N/A	TECHNICAL	INSTRUCTION MANUAL/SCHEMATIC&PARTS LIST
EVN	WKBP-16	WKBP-16	TECHNICAL	HP9826/36 MEMORY BD
EVN	WKBP4A	WKBP4A	TECHNICAL	HP9826/36 MEMORY BD
EVN	WMAZ-4	WMAZ-4	TECHNICAL	HP9845B/C/T/200 MEMORY BD.
EVS	MPS EXT MEM	901171-015	SCHEMATICS	EVANS+SUTHERLAND
EVS	MPS/PS2	901171-051A3	SERVICE	EVANS+SUTHERLAND
EVS	MPS/PS2 LITE PE	901171-016	TECHNICAL	EVANS+SUTHERLAND
EVS	PS2	901171-SYS 2	DIAGNOSTIC	EVANS+SUTHERLAND
EVS	PS2	901180-001	IPB	EVANS+SUTHERLAND
EVS	PS2	901181-139	SERVICE	EVANS+SUTHERLAND
EVS	PS2 EXT MEM	195102-804	SERVICE	EVANS+SUTHERLAND
EVS	PS2 RTI	901181-139	DIAGNOSTICS	EVANS+SUTHERLAND
EVS	MPS/PS2	901067-100	SCHEMATICS	EVANS+SUTHERLAND VOL 1
EVS	MPS/PS2	901067-100	TECHNICAL	EVANS+SUTHERLAND VOL 2
EVS	ES2/MS	901171-016	OPERATOR	LIGHT PEN
EVS	MPS	901141-052A3	SERVICE	MPS USERS MANUAL
EVS	DIGITIZER	DIGITIZER	ENGINEERING	SUMMAGRAPHICS
EVS	DIGITIZER	901067-2000	OPERATOR	SUMMAGRAPHICS DIGITIZER
EVS	MPS/PS2	901171-054NC	SERVICE	TRAINING COURSE
EVS	EMPSII	195102-804	SERVICE	WIRE LISTINGS
EVS	A23-7A	79007	OPERATOR	XYTRON CRT
EVS	SERVICE	PS2/LCG	OPERATOR	N/A
EVX	EV170B	00063-30	X	I/O OPTION FOR PC/XT/AT REFERENCE GUIDE
EXACT	250	N/A	X	2 MANUALS
EXACT	7056	N/A	N/A	2 MANUALS
EXACT	7060	N/A	X	2 MANUALS
EXACT	7071	N/A	X	2 MANUALS
EXACT	124	N/A	E	3 MANUALS
EXACT	255	N/A	E	3 MANUALS
EXACT	500B 3 4 & 5B	N/A	E	4 MANUALS
EXACT	301 302 304	N/A	X	6 MANUALS
EXACT	350A	N/A	X	INSTRUCTION
EXACT	124	N/A	X	INSTRUCTION MANUAL
EXACT	301	N/A	X	INSTRUCTION MANUAL
EXACT	410:21 :22 :23	N/A	E	SCHEMATICS
EXACT	7060	N/A	N/A	VCF/SWEEP GEN.
EXACT	504/506/507	N/A	E	WAVE FORM GEN.
EXACT	627	N/A	X	N/A
EXACT	7060	N/A	X	N/A
EXACT	126 & 128	N/A	X	N/A
EXACT	200 C E & F	N/A	X	N/A
EXACT	500B	N/A	X	N/A
EXACT	504B	N/A	E	N/A
EXACT	505B	N/A	X	N/A
EXACT	528-356	N/A	X	N/A
EXACT	CATALOG	N/A	X	N/A
EXACT	TYPE 200 C204	N/A	USERS MANUAL	N/A
EXB	EXB-8200	510002-005	TECHNICAL	CARTRIDGE TAPE-COMPATIBILITY MANUAL
EXB	EXB-8200	510005-004	IPB	EXB-8200 8MM CARTRIDGE TAPE SUBSYS SPEC.
EXB	EXB-8200	510000-005	OPERATOR	ILLUSTRATED PARTS CATALOG
EXB	EXB-8200	510003-001	TECHNICAL	MAINTENANCE MANUAL
EXB	EXB8200	MKT-016-04	N/A	OPERATIONAL TECHNICAL INSTALLATION
EXB	8200	510006-005	TECHNICAL	THEORY OF OPERATION
EXB	EXB-8200	510007-000	TECHNICAL	THEORY OF OPERATIONS
EXB	EXB-8200	510006-005	TECHNICAL	USER'S MANUAL
EXPLOSIMETER	MODEL 2	N/A	E	N/A
EXTECH	380902	N/A	E	OPERATION MANUAL
EXTECH	380972	N/A	N/A	OPERATION MANUAL
EXTECH	380902	N/A	E	SERVICE MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
EXTECH INSTRUMENTS CORP	380360	N/A	OPERATOR	CALIBRATION
EXTECH INSTRUMENTS CORP.	RH/TEMP METER	N/A	L	DIGITAL HUMIDITY/TEMPERATURE METER
EXTECH INSTRUMENTS CORP.	444712	N/A	OPERATOR	PROGRAMMABLE HYGROMETER/THERMOMETER
EXTECH INSTRUMENTS CORP.	RH PEN	N/A	OPERATOR	RELATIVE HUMIDITY PEN
EXTECH INSTRUMENTS CORP.	4485CF	N/A	OPERATOR	THERMO-HYGROMETER PEN
E-Z HOOK	CATALOG	N/A	TECHNICAL	TEST ACCESSORIES
F & P	50E-1000	N/A	L	2 MANUALS
F & P	1841	N/A	L	N/A
F.L. MOSELEY	135	N/A	E	X-Y RECORDER
F.L. MOSELEY	135	N/A	W	N/A
F.W. BELL	CG-100D	N/A	E	MAINTENANCE
F.W. BELL	660	N/A	E	OPERATION AND MAINTENANCE
F.W. BELL	240	N/A	E	OPERATION AND SERVICE
F.W. BELL	240	N/A	E	OPERATION AND SERVICE
F.W. BELL	110	N/A	E	SPECIFICATION DATA
F.W. BELL	600	N/A	E	SPECIFICATION DATA
F.W. BELL	615	N/A	E	SPECIFICATION DATA
F.W. BELL	615	N/A	E	SPECIFICATION DATA
F.W. BELL	660	N/A	E	SPECIFICATION DATA
F.W. BELL	810	N/A	E	SPECIFICATION DATA
F.W. BELL	813	N/A	E	SPECIFICATION DATA
F.W. BELL	1776	N/A	E	SPECIFICATION DATA
F.W. BELL	620/640	N/A	E	SPECIFICATION DATA
F.W. BELL	CG-100D	N/A	E	SPECIFICATION DATA
F.W. BELL	IA-5020P	N/A	E	SPECIFICATION DATA
F.W. BELL	ID-50014	N/A	E	SPECIFICATION DATA
F.W. BELL	IL-1501A	N/A	E	SPECIFICATION DATA
F.W. BELL	IL-151A	N/A	OPER/SERV	SPECIFICATION DATA
F.W.BELL	615	N/A	TECHNICAL	GAUSSMETER
FAC	4550-51	1103 89 43-00	K	PEN PLOTTER TECH DESCRIPTION
FAIRCHILD	74-03A	N/A	K	2 MANUALS
FAIRCHILD	74-17A	N/A	K	2 MANUALS
FAIRCHILD	765	N/A	K	2 MANUALS/1 CATALOG
FAIRCHILD	76-02A	N/A	K	3 MANUALS
FAIRCHILD	32	N/A	K	INSTRUCTION MANUAL
FAIRCHILD	53/80	N/A	K	INSTRUCTION MANUAL
FAIRCHILD	701	N/A	K	N/A
FAIRCHILD	777	N/A	K	N/A
FAIRCHILD	990	N/A	J	N/A
FAIRCHILD	208-B	N/A	K	N/A
FAIRCHILD	304 & 304H	N/A	E	N/A
FAIRCHILD	322A	N/A	K	N/A
FAIRCHILD	401B/401BR	N/A	K	N/A
FAIRCHILD	403B/403BR	N/A	K	N/A
FAIRCHILD	450/450A	N/A	K	N/A
FAIRCHILD	450/450A/453/A	N/A	N/A	N/A
FAIRCHILD	453/453A	N/A	E	N/A
FAIRCHILD	712 OIN	N/A	K	N/A
FAIRCHILD	74-11A	N/A	K	N/A
FAIRCHILD	74-13A	N/A	K	N/A
FAIRCHILD	74-13A/74-03A	N/A	K	N/A
FAIRCHILD	74-93A	N/A	K	N/A
FAIRCHILD	76-01A	N/A	K	N/A
FAIRCHILD	76-08	N/A	K	N/A
FAIRCHILD	76-08	N/A	K	N/A
FAIRCHILD	781A	N/A	K	N/A
FAIRCHILD	7902A	N/A	U	N/A
FAIRCHILD	ALR25	N/A	J	N/A
FAIRCHILD	CSR-200	N/A	J	N/A
FAIRCHILD	ESC-125A	N/A	W	N/A
FAIRCHILD	EXY-125A	N/A	V	N/A
FAIRCHILD	F284 & F286	N/A	J	N/A
FAIRCHILD	FSS-250/250D	N/A	K	N/A
FAIRCHILD	INST. SERV. BUL.	N/A	J	N/A
FAIRCHILD	LCA-25	N/A	J	N/A
FAIRCHILD	RVR-25	N/A	E	N/A
FANON	FTA-100	N/A	F	N/A
FARATRON	410	N/A	V	3 MANUALS
FARATRON	400 SERIES	N/A	F	N/A
FAXITRON	805	N/A	D	RADIATION INSPECTION SYSTEM
FEDERAL GAGES	CATALOG	N/A	X	MICROMETER & GAGES
FEDERAL SCIENTIFIC	UA-7B/UA7	N/A	X	2 MANUALS NO SCHEMATICS
FEDERAL SCIENTIFIC	UC201A	N/A	X	ADDENDUM
FEDERAL SCIENTIFIC	UC201A	N/A	X	ADDENDUM #2
FEDERAL SCIENTIFIC	1010 1014 1015	N/A	X	N/A
FEDERAL SCIENTIFIC	66-2A	N/A	X	N/A
FEDERAL SCIENTIFIC	66-2A/3D	N/A	X	N/A
FEDERAL SCIENTIFIC	OPT 129B	N/A	X	N/A
FEDERAL SCIENTIFIC	UC 201A	N/A	X	N/A
FEDERAL SCIENTIFIC	UC-201/UC-202	N/A	X	N/A
FEDERAL SCIENTIFIC	UC201A	N/A	X	N/A
FEDERAL SCIENTIFIC	VA-6A	N/A	X	N/A
FENWAL	SERIES 536	N/A	T	INSTALLATION
FENWAL	80001-0	N/A	T	INSTRUCTION
FENWAL	SERIES 52-3	N/A	T	INSTRUCTION
FENWAL	SERIES 536	N/A	X	MAINTENANCE
FENWAL	13000 15000	N/A	X	N/A
FENWAL	16000 THRU 18000	N/A	T	N/A
FERRIS	22-32	N/A	X	N/A
FERRIS	32B	N/A	OPERATOR TECHNICAL	N/A
FES	ENLIGHTENER 2	ENLIGHTENER 2	I	FLOPPY DRIVE BUSS MONITOR OPERATION
FIELD EMISSION	846	N/A	X	N/A
FIELD EMISSION	845A	N/A	I	N/A
FIFTH DIMENSION	1321/1322/3	N/A	X	SPECIFICATIONS OP-AMP
FINCOR	M401	N/A	E	SCR POWER PACK
FISHER	750	N/A	E	INSTRUCTION MANUAL
FISHER	13-245	N/A	E	INSTRUCTION MANUAL



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
FISHER	TS112	N/A	B	INSTRUCTION MANUAL
FISHER CONTROLS	495	N/A	H	INSTRUCTION
FISHER CONTROLS	495	N/A	T	INSTRUCTION
FISHER CONTROLS	640/640A	N/A	H	INSTRUCTION
FISHER CONTROLS	TYPE TS113	N/A	L	INSTRUCTION
FISHER CONTROLS	420	N/A	T	INSTRUCTION W/SCHEMATICS
FISHER CONTROLS	810	N/A	X	INSTRUCTION W/SCHEMATICS
FISHER CONTROLS	1144	N/A	B	N/A
FISHER CONTROLS	4194	N/A	B	N/A
FISHER CONTROLS	4195A	N/A	H	N/A
FISHER CONTROLS	TL101	N/A	T	N/A
FISHER PORTER	10A2235	N/A	L	N/A
FISHER PORTER	10A2700	N/A	L	N/A
FISHER PORTER	10C1516	N/A	L	N/A
FISHER PORTER	50 SC 1000	N/A	L	N/A
FISHER PORTER	55GE 2238	N/A	L	N/A
FISHER PORTER	55GE 2239	N/A	L	N/A
FISHER PORTER	55GE2272A	N/A	L	N/A
FISHER PORTER	IOC1505	N/A	L	N/A
FISHER PORTER	IOC1510	N/A	L	N/A
FISHER PORTER	IOC1511	N/A	C	N/A
FISHER SCIENTIFIC	420	N/A	W	3 MANUALS
FISHER SCIENTIFIC	RECORDER	N/A	TECHNICAL	N/A
FLIGHT RESEARCH	VI-4	N/A	K	N/A
FLOW CORPORATION	12A1	N/A	K	1 MANUAL/4 NOTES ON 12A1/2 SCHEMATICS
FLOW CORPORATION	12A1-LC	N/A	K	2 MANUALS/4 SCHEMATICS/NO FOLDER
FLOW CORPORATION	SP-400-36-S	N/A	L	WITH SCHEMATICS
FLOW TECHNOLOGY	PR1-703(S)	N/A	TECHNICAL	4 MANUALS
FLOW TECHNOLOGY	6000	N/A	L	N/A
FLOW TECHNOLOGY	AFT-2KA3	N/A	L	N/A
FLOW TECHNOLOGY	CA-51	N/A	L	N/A
FLOW TECHNOLOGY	EDT-400	N/A	L	N/A
FLOW TECHNOLOGY	FT-32	N/A	L	N/A
FLOW TECHNOLOGY	FT-40	N/A	L	N/A
FLOW TECHNOLOGY	FTO	N/A	L	N/A
FLOW TECHNOLOGY	II	N/A	L	N/A
FLOW TECHNOLOGY	LFA-300F	N/A	L	N/A
FLOW TECHNOLOGY	LFA-307	N/A	L	N/A
FLOW TECHNOLOGY	PA-51	N/A	L	N/A
FLU	87	834192	TECHNICAL	87 TRUE RMS MULTIMETER USERS MANUAL
FLU	9000A-6800	613752	OPERATOR	9010A
FLU	9000A-8080	613786	OPERATOR	9010A
FLU	9000A-8085	613778	OPERATOR	9010A
FLU	9000A-Z80	613794	TECHNICAL	9010A
FLU	9010A	609263	PROGRAM	9010A
FLU	9010A	609289	TECHNICAL	9010A
FLU	2240A	427948	SERVICE	DATA LOGGER
FLU	2280 SERIES	735111	TECHNICAL	DATA LOGGER SERVICE MANUAL
FLU	9832	HD63276102ROA6	OPERATE AND SERVICE	DOUG WOOD INTERFACE
FLU	80TK/87	735985	OPERATOR	INSTRUCTION SHEET-THERMOCOUPLE MODULE
FLU	9010	HD63276102R0D6	SERVICE	INTERFACE
FLU	9010A	609297	OPERATOR	MICRO-TRUBLESHOOT
FLU	4216A	4216A	OPERATOR	PROGR VOLTAGESOURCE
FLU	4216A	4216A	SERVICE	PROGRAMMABLE VOLTAGE SOURCE
FLU	5200A	5200A	OPERATOR	N/A
FLU	883A	883A	OPERATOR	N/A
FLUCK	1900A	N/A	X	OPERATOR AND SERVICE
FLUKE	1980A	N/A	F	2 MANUALS
FLUKE	2010A	N/A	T	2 MANUALS
FLUKE	351A	N/A	X	2 MANUALS
FLUKE	408A	N/A	X	2 MANUALS
FLUKE	408B	N/A	E	2 MANUALS
FLUKE	803B	N/A	E	2 MANUALS
FLUKE	8120A	N/A	E	2 MANUALS
FLUKE	853-A	N/A	E	2 MANUALS
FLUKE	8800A	N/A	E	2 MANUALS
FLUKE	8810A	N/A	E	2 MANUALS
FLUKE	881A & 881AB	N/A	X	2 MANUALS
FLUKE	412A	N/A	E	2 MANUALS/1 IN POOR CONDITION
FLUKE	8000A	N/A	E	2 MANUALS/1 IN POOR CONDITION
FLUKE	1920A	N/A	F	3 MANUALS
FLUKE	382A	N/A	X	4 MANUALS
FLUKE	8500A	N/A	E	APPLICATION BULLETIN
FLUKE	8520A	N/A	E	APPLICATION INFORMATION FOR THE DMM'S MATH PROGRAMS
FLUKE	8520A	N/A	E	CALIBRATION MANUAL
FLUKE	8520A	N/A	SERVICE	CALIBRATION MANUAL
FLUKE	8860A	N/A	E	CALIBRATION MANUAL
FLUKE	8860A	N/A	E	CALIBRATION MANUAL
FLUKE	8860A	N/A	E	CALIBRATION MANUAL
FLUKE	8860A	N/A	E	CALIBRATION MANUAL
FLUKE	7261A	N/A	E	COUNTER/TIMER
FLUKE	905B	N/A	N/A	D.C. POWER SUPPLY
FLUKE	883A	N/A	E	DIFF VOLTMETER
FLUKE	883AB	N/A	E	DIFF VOLTMETER
FLUKE	8060A	N/A	E	DIG. MULTIMETER
FLUKE	8520A	N/A	BULLETIN	DIG. MULTIMETER
FLUKE	8500A	N/A	E	DIGITAL MULTIMETER
FLUKE	8520A	N/A	E	DIGITAL MULTIMETER
FLUKE	2176A	N/A	T	DIGITAL THERMOMETER
FLUKE	2190A	N/A	E	DIGITAL THERMOMETER
FLUKE	CATALOG	N/A	T	ELECTRONIC 1988 MEASURING INSTRUMENTS
FLUKE	2280	N/A	N/A	INSTRUCTION
FLUKE	5100	N/A	E	INSTRUCTION
FLUKE	5100	N/A	E	INSTRUCTION
FLUKE	5200	N/A	E	INSTRUCTION
FLUKE	8100	N/A	N/A	INSTRUCTION
FLUKE	8120	N/A	E	INSTRUCTION
FLUKE	8200	N/A	E	INSTRUCTION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
FLUKE	8200	N/A	N/A	INSTRUCTION
FLUKE	8800	N/A	E	INSTRUCTION
FLUKE	8800	N/A	E	INSTRUCTION
FLUKE	8800	N/A	X	INSTRUCTION
FLUKE	2190A	N/A	H	INSTRUCTION
FLUKE	2240A	N/A	E	INSTRUCTION
FLUKE	2240A	N/A	E	INSTRUCTION
FLUKE	2240A	N/A	E	INSTRUCTION
FLUKE	2240B	N/A	E	INSTRUCTION
FLUKE	2240B	N/A	E	INSTRUCTION
FLUKE	2240B	N/A	E	INSTRUCTION
FLUKE	2240C	N/A	N/A	INSTRUCTION
FLUKE	332A	N/A	E	INSTRUCTION
FLUKE	332A	N/A	E	INSTRUCTION
FLUKE	332B	N/A	E	INSTRUCTION
FLUKE	332B	N/A	E	INSTRUCTION
FLUKE	332B	N/A	E	INSTRUCTION
FLUKE	332D	N/A	E	INSTRUCTION
FLUKE	332D	N/A	E	INSTRUCTION
FLUKE	332D	N/A	E	INSTRUCTION
FLUKE	332D	N/A	E	INSTRUCTION
FLUKE	332D	N/A	E	INSTRUCTION
FLUKE	332D	N/A	X	INSTRUCTION
FLUKE	335D	N/A	E	INSTRUCTION
FLUKE	5100B	N/A	E	INSTRUCTION
FLUKE	510A	N/A	E	INSTRUCTION
FLUKE	5200A	N/A	E	INSTRUCTION
FLUKE	5205A	N/A	E	INSTRUCTION
FLUKE	5205A	N/A	E	INSTRUCTION
FLUKE	5450A	N/A	E	INSTRUCTION
FLUKE	7220A	N/A	N/A	INSTRUCTION
FLUKE	732 A/AN	N/A	E	INSTRUCTION
FLUKE	732A	N/A	E	INSTRUCTION
FLUKE	732A	N/A	E	INSTRUCTION
FLUKE	732A/AN	N/A	E	INSTRUCTION
FLUKE	732A/AN	N/A	N/A	INSTRUCTION
FLUKE	752A	N/A	E	INSTRUCTION
FLUKE	752A	N/A	E	INSTRUCTION
FLUKE	752A	N/A	E	INSTRUCTION
FLUKE	8500A	N/A	E	INSTRUCTION
FLUKE	8500A	N/A	E	INSTRUCTION
FLUKE	8502A	N/A	E	INSTRUCTION
FLUKE	8506A	N/A	E	INSTRUCTION
FLUKE	8506A	N/A	X	INSTRUCTION
FLUKE	885A/AB	N/A	E	INSTRUCTION
FLUKE	887A/AB	N/A	E	INSTRUCTION
FLUKE	887A/AB	N/A	E	INSTRUCTION
FLUKE	895A	N/A	E	INSTRUCTION
FLUKE	895A	N/A	E	INSTRUCTION
FLUKE	895A	N/A	E	INSTRUCTION
FLUKE	895A	N/A	N/A	INSTRUCTION
FLUKE	931B	N/A	N/A	INSTRUCTION
FLUKE	0.00000008	N/A	T	INSTRUCTION MANUAL
FLUKE	801	N/A	E	INSTRUCTION MANUAL
FLUKE	803	N/A	X	INSTRUCTION MANUAL
FLUKE	5205	N/A	E	INSTRUCTION MANUAL
FLUKE	7100	N/A	E	INSTRUCTION MANUAL
FLUKE	8800	N/A	E	INSTRUCTION MANUAL
FLUKE	8800	N/A	E	INSTRUCTION MANUAL
FLUKE	8800	N/A	E	INSTRUCTION MANUAL
FLUKE	8800	N/A	E	INSTRUCTION MANUAL
FLUKE	1920A	N/A	F	INSTRUCTION MANUAL
FLUKE	2240A	N/A	E	INSTRUCTION MANUAL
FLUKE	2240A	N/A	E	INSTRUCTION MANUAL
FLUKE	313A	N/A	E	INSTRUCTION MANUAL
FLUKE	341A/343A	N/A	E	INSTRUCTION MANUAL
FLUKE	351A	N/A	X	INSTRUCTION MANUAL
FLUKE	382A	N/A	E	INSTRUCTION MANUAL
FLUKE	382A	N/A	E	INSTRUCTION MANUAL
FLUKE	382A	N/A	X	INSTRUCTION MANUAL
FLUKE	405B	N/A	X	INSTRUCTION MANUAL
FLUKE	407D	N/A	X	INSTRUCTION MANUAL
FLUKE	408A	N/A	E	INSTRUCTION MANUAL
FLUKE	408A	N/A	X	INSTRUCTION MANUAL
FLUKE	408B	N/A	X	INSTRUCTION MANUAL
FLUKE	410B	N/A	E	INSTRUCTION MANUAL
FLUKE	412A	N/A	X	INSTRUCTION MANUAL
FLUKE	412B	N/A	E	INSTRUCTION MANUAL
FLUKE	412C/D	N/A	E	INSTRUCTION MANUAL
FLUKE	413C/D	N/A	X	INSTRUCTION MANUAL
FLUKE	415B	N/A	X	INSTRUCTION MANUAL
FLUKE	4210A	N/A	E	INSTRUCTION MANUAL
FLUKE	4210A	N/A	E	INSTRUCTION MANUAL
FLUKE	4210A	N/A	E	INSTRUCTION MANUAL
FLUKE	4216A	N/A	E	INSTRUCTION MANUAL
FLUKE	5100B	N/A	E	INSTRUCTION MANUAL
FLUKE	515A	N/A	N/A	INSTRUCTION MANUAL
FLUKE	5220A	N/A	E	INSTRUCTION MANUAL
FLUKE	540B	N/A	E	INSTRUCTION MANUAL
FLUKE	720A	N/A	E	INSTRUCTION MANUAL
FLUKE	750A	N/A	E	INSTRUCTION MANUAL
FLUKE	760A	N/A	E	INSTRUCTION MANUAL
FLUKE	8000A	N/A	N/A	INSTRUCTION MANUAL
FLUKE	8004A/8012A	N/A	E	INSTRUCTION MANUAL
FLUKE	801B	N/A	E	INSTRUCTION MANUAL
FLUKE	801B	N/A	X	INSTRUCTION MANUAL
FLUKE	801HR	N/A	N/A	INSTRUCTION MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
FLUKE	8020A	N/A	E	INSTRUCTION MANUAL
FLUKE	8022A	N/A	E	INSTRUCTION MANUAL
FLUKE	8024A	N/A	E	INSTRUCTION MANUAL
FLUKE	8024B	N/A	E	INSTRUCTION MANUAL
FLUKE	803B	N/A	E	INSTRUCTION MANUAL
FLUKE	803B	N/A	E	INSTRUCTION MANUAL
FLUKE	803B	N/A	X	INSTRUCTION MANUAL
FLUKE	8050A	N/A	X	INSTRUCTION MANUAL
FLUKE	8060A	N/A	E	INSTRUCTION MANUAL
FLUKE	8062A	N/A	E	INSTRUCTION MANUAL
FLUKE	8062A	N/A	N/A	INSTRUCTION MANUAL
FLUKE	80E	N/A	E	INSTRUCTION MANUAL
FLUKE	8100A	N/A	X	INSTRUCTION MANUAL
FLUKE	8120A	N/A	E	INSTRUCTION MANUAL
FLUKE	8120A	N/A	E	INSTRUCTION MANUAL
FLUKE	8120A	N/A	X	INSTRUCTION MANUAL
FLUKE	8120A	N/A	N/A	INSTRUCTION MANUAL
FLUKE	8200A	N/A	E	INSTRUCTION MANUAL
FLUKE	8200A	N/A	X	INSTRUCTION MANUAL
FLUKE	823A	N/A	E	INSTRUCTION MANUAL
FLUKE	825A	N/A	E	INSTRUCTION MANUAL
FLUKE	825A/B	N/A	N/A	INSTRUCTION MANUAL
FLUKE	8300A	N/A	E	INSTRUCTION MANUAL
FLUKE	8300A	N/A	X	INSTRUCTION MANUAL
FLUKE	8350A	N/A	E	INSTRUCTION MANUAL
FLUKE	8375A	N/A	E	INSTRUCTION MANUAL
FLUKE	8400A	N/A	E	INSTRUCTION MANUAL
FLUKE	844A/AA	N/A	E	INSTRUCTION MANUAL
FLUKE	853A	N/A	E	INSTRUCTION MANUAL
FLUKE	853A	N/A	E	INSTRUCTION MANUAL
FLUKE	853A	N/A	E	INSTRUCTION MANUAL
FLUKE	8600A	N/A	E	INSTRUCTION MANUAL
FLUKE	873A	N/A	X	INSTRUCTION MANUAL
FLUKE	8810A	N/A	X	INSTRUCTION MANUAL
FLUKE	881A	N/A	X	INSTRUCTION MANUAL
FLUKE	883A	N/A	X	INSTRUCTION MANUAL
FLUKE	8840A	N/A	E	INSTRUCTION MANUAL
FLUKE	8840A	N/A	E	INSTRUCTION MANUAL
FLUKE	8842A	N/A	E	INSTRUCTION MANUAL
FLUKE	8842A	N/A	E	INSTRUCTION MANUAL
FLUKE	885A	N/A	E	INSTRUCTION MANUAL
FLUKE	893A	N/A	E	INSTRUCTION MANUAL
FLUKE	931B	N/A	E	INSTRUCTION MANUAL
FLUKE	A90	N/A	X	INSTRUCTION MANUAL
FLUKE	Y2009	N/A	T	INSTRUCTION MANUAL
FLUKE	Y5000	N/A	E	INSTRUCTION MANUAL
FLUKE	Y5000	N/A	SERVICE MANUAL	INSTRUCTION MANUAL
FLUKE	1120A	N/A	N/A	INSTRUCTION W/SCHEMATIC
FLUKE	2030A	N/A	N/A	INSTRUCTION W/SCHEMATIC
FLUKE	2160A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2160A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2160A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2160A-02	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2160A-04	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2160A-04	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2165A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2168A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2168A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2170A	N/A	H	INSTRUCTION W/SCHEMATIC
FLUKE	2176A	N/A	X	INSTRUCTION W/SCHEMATIC
FLUKE	2180A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2180A	N/A	X	INSTRUCTION W/SCHEMATIC
FLUKE	2300A	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	2301A	N/A	USER	INSTRUCTION W/SCHEMATIC
FLUKE	2XXXA0002	N/A	Q	INSTRUCTION W/SCHEMATIC
FLUKE	2XXXA0002	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	Y2001	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	Y2001	N/A	T	INSTRUCTION W/SCHEMATIC
FLUKE	Y2002	N/A	E	INSTRUCTION W/SCHEMATIC
FLUKE	Y2009	N/A	E	INSTRUCTION W/SCHEMATIC
FLUKE	2100	N/A	H	INSTRUCTION W/SCHEMATICS
FLUKE	2100	N/A	T	INSTRUCTION W/SCHEMATICS
FLUKE	2100	N/A	T	INSTRUCTION W/SCHEMATICS
FLUKE	2150A	N/A	T	INSTRUCTION W/SCHEMATICS
FLUKE	2160A	N/A	T	INSTRUCTION W/SCHEMATICS
FLUKE	2160A	N/A	T	INSTRUCTION W/SCHEMATICS
FLUKE	80T-150	N/A	H	INSTRUCTION W/SCHEMATICS
FLUKE	2205A	N/A	E	INSTRUCTIONS
FLUKE	2280	N/A	T	M00817/DATA LOGGAR
FLUKE	2280	N/A	E	M00818/DATA LOGGAR
FLUKE	2030A	N/A	T	M00820/PROGRAMMABLE PRINTER
FLUKE	2280	N/A	T	M00846/DATA LOGGER
FLUKE	2280	N/A	N/A	M00847/DATA LOGGER
FLUKE	2280	N/A	T	M00848/DATA LOGGER
FLUKE	2280	N/A	T	M00849/DATA LOGGER
FLUKE	8030A	N/A	E	MAINTENANCE MANUAL
FLUKE	8040A	N/A	E	MAINTENANCE MANUAL
FLUKE	8000A	N/A	E	MULTIMETER
FLUKE	8100A	N/A	X	MULTIMETER
FLUKE	8840A	N/A	E	NEW USER'S GUIDE
FLUKE	8840A	N/A	X	NEW USER'S GUIDE
FLUKE	PM33XXB	N/A	SERVICE	OPERATION
FLUKE	8020A	N/A	E	OPERATION AND SERVICE MANUAL
FLUKE	8062A	N/A	E	OPERATION AND SERVICE MANUAL
FLUKE	52	N/A	E	OPERATION MANUAL
FLUKE	75/77	N/A	E	OPERATION MANUAL
FLUKE	2280 SERIES	N/A	E	OPERATORS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
FLUKE	5440A	N/A	E	OPERATORS
FLUKE	5100	N/A	E	OPERATOR'S MANUAL
FLUKE	8000A	N/A	F/X	OPERATOR'S MANUAL
FLUKE	8520A	N/A	E	OPERATOR'S MANUAL
FLUKE	8860A	N/A	E	OPERATOR'S MANUAL
FLUKE	8100A & 8300A	N/A	E	SCHEMATICS
FLUKE	83 85 87	N/A	E	SERIES 80 SERVICE MANUAL
FLUKE	3330B	N/A	E	SERIES BULLETIN
FLUKE	2280	N/A	E	SERVICE
FLUKE	2280	N/A	T	SERVICE
FLUKE	2280	N/A	T	SERVICE
FLUKE	2280	N/A	N/A	SERVICE
FLUKE	2280	N/A	N/A	SERVICE
FLUKE	2280	N/A	N/A	SERVICE
FLUKE	2280A	N/A	N/A	SERVICE
FLUKE	5440A	N/A	E	SERVICE
FLUKE	HELIOS I	N/A	T	SERVICE
FLUKE	HELIOS I	N/A	USER	SERVICE
FLUKE	N/A	N/A	F	SERVICE BULLETINS
FLUKE	123	N/A	E	SERVICE MANUAL
FLUKE	70 SERIES	N/A	E	SERVICE MANUAL
FLUKE	70 SERIES	N/A	E	SERVICE MANUAL
FLUKE	8520A	N/A	X	SERVICE MANUAL
FLUKE	8860A	N/A	E	SERVICE MANUAL
FLUKE	PM3082/PM3084/PM3092/PM/3094	N/A	N/A	SERVICE MANUAL
FLUKE	105B	N/A	T	SERVICE MANUAL FOR 105B SERIES II
FLUKE	91/92/96/99	N/A	X	SERVICE MANUAL FOR SERIES II SCOPEMETERS
FLUKE	PM33XXB	N/A	H	SCHEMATICS CALIBRATION
FLUKE	45020	N/A	E	SPECIFICATION DATA
FLUKE	45020	N/A	E	SPECIFICATION DATA
FLUKE	410B	N/A	E	SPECS/NO MANUAL
FLUKE	2280	N/A	T	SYSTEM GUIDE
FLUKE	2280 SERIES	N/A	E	SYSTEM GUIDE
FLUKE	3010A	N/A	E	TROUBLE-SHOOTING
FLUKE	2280	N/A	T	USER GUIDE
FLUKE	8860A-005	N/A	E	USER HANDBOOK
FLUKE	2280 SERIES	N/A	E	USER'S GUIDE
FLUKE	PM3082/PM3084/PM3092/PM3094	N/A	USERS	USERS MANUAL
FLUKE	8120A	N/A	E	VOLTMETER
FLUKE	8200A	N/A	E	VOLTMETER
FLUKE	95	N/A	X	WITH 93 95 97 MANUAL
FLUKE	97	N/A	E	WITH 93 95 97 MANUAL
FLUKE	207	N/A	T	N/A
FLUKE	1952A	N/A	T	N/A
FLUKE	1980A	N/A	T	N/A
FLUKE	2030A	N/A	F	N/A
FLUKE	2100A	N/A	T	N/A
FLUKE	2176A	N/A	T	N/A
FLUKE	2190A	N/A	N/A	N/A
FLUKE	2625A DATA LOG.	N/A	T	N/A
FLUKE	382A	N/A	E	N/A
FLUKE	382A	N/A	X	N/A
FLUKE	405B	N/A	E	N/A
FLUKE	407D	N/A	E	N/A
FLUKE	407DR	N/A	E	N/A
FLUKE	409A	N/A	X	N/A
FLUKE	4210A	N/A	E	N/A
FLUKE	801B	N/A	E	N/A
FLUKE	80T-150	N/A	E	N/A
FLUKE	8100A	N/A	E	N/A
FLUKE	8100A	N/A	X	N/A
FLUKE	8200A	N/A	X	N/A
FLUKE	821-A	N/A	X	N/A
FLUKE	823-A	N/A	E	N/A
FLUKE	873A & 873AB	N/A	E	N/A
FLUKE	910A	N/A	E	N/A
FLUKE	SR 2160A 2170A	N/A	T	N/A
FLUKE JOHN FLUKE MFG. CO.	36	N/A	OPERATOR'S MANUAL	MULTIMETER
FLUKE JOHN FLUKE MFG. CO.	37	N/A	SERVICE MANUAL	MULTIMETER
FLUKE JOHN FLUKE MFG. CO.	37	N/A	USER'S MANUAL	MULTIMETER
FLUKE JOHN FLUKE MFG. CO.	21 23	N/A	SPEC SHEET (FAX)	MULTIMETER
FLUKE JOHN FLUKE MFG. CO.	45	N/A	SERVICE MANUAL	MULTIMETER DUAL DISPLAY
FLUKE JOHN FLUKE MFG. CO.	45	N/A	USER'S MANUAL	MULTIMETER DUAL DISPLAY
FLUKE CORP	192/196/199	N/A	INSTR/SERV	SERVICE MANUAL
FLUKE CORPORATION	732B/734A	N/A	K	DC REFERENCE STANDARDS
FLUKE CORPORATION	45	N/A	N/A	MULTIMETER DUAL DISPLAY
FLUKE MFG	1952B	N/A	K	SERVICE MANUAL
FOR-A-CO	VTG-33	N/A	B	OPERATION
FORD INDUSTRIES INC	540	N/A	B	SERVICE MANUAL
FOXBORO	20	N/A	B	CATALOG
FOXBORO	1000	N/A	H	CATALOG
FOXBORO	1700	N/A	B	CATALOG
FOXBORO	1800	N/A	B	CATALOG
FOXBORO	2170	N/A	B	CATALOG
FOXBORO	2190	N/A	B	CATALOG
FOXBORO	2270	N/A	B	CATALOG
FOXBORO	2290	N/A	F	CATALOG
FOXBORO	FR-322	N/A	F	FREQ TO DC CONVERTERS
FOXBORO	40	N/A	M	OPERATION/MAINTENANCE
FOXBORO	522 SERIES	N/A	B	SCHEMATICS
FOXBORO	PC-84	N/A	Q	SCHEMATICS INCLUDED
FOXBORO	FR-500 SERIES	N/A	F	SPECS & SCHEMATICS
FOXBORO	931	N/A	L	N/A
FOXBORO	1000	N/A	B	N/A
FOXBORO	1150	N/A	B	N/A
FOXBORO	1308	N/A	B	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
FOXBORO	E83F	N/A	X	N/A
FOXBORO	E83W	N/A	F	N/A
FOXBORO	FR-504-4	N/A	Q	N/A
FRANKLIN	1000	N/A	X	N/A
FRANKLIN	1200	N/A	T	N/A
FRANKLIN ELECT. INC.	500C	N/A	B	N/A
FRANKLIN ELECT. INC.	SERIES 1200	N/A	B	N/A
FREDRICKS	CATALOG	N/A	X	BUBBLES
FREDRICKS	3A	N/A	D	N/A
FREDRICKS	3B	N/A	F	N/A
FREED INSTRUMENT CO.	1030	N/A	H	N/A
FRIDEN	132	N/A	B	N/A
FRIEZ	HA-2	N/A	TECHNICAL	N/A
FRIEZ	MICRO BAROGRAPH	N/A	SCHEMATICS	N/A
FRKN	TM507	TM507	SERVICE	COLUMN PRINTER
FRKN	2200/3200	TM508	SCHEMATICS	PRINTER
FRKN	B1000	C7293	TECHNICAL	PRINTER
FRKN	B1000	D7278/L7293	USER	N/A
FUJ	M2344K	B03P-4880-0101A-0A	TECHNICAL	ENGINEERING SPECIFICATION
FUJ	M228X	B03P45800100AD	TECHNICAL	FUJITSU M228X FIXED DISK
FUJ	M2361A	B03P48250002A	TECHNICAL/IPB	INSTALLATION/THEORY OF OPER/IPB/SCHEMAT
FUJ	M2331K/M2333K	B03P-47600111A	SERVICE	M2331/M2333K CUSTOMER ENGINEERING MAN.
FUJ	M244X SERIES	B03P-5325-100A	X	STREAMING TAPE DRIVE CE MANUAL
FUJ	M2331K/M2333K	B03P47600111A	TECHNICAL	THEORY OF OPER/IPB/INSTALLATION
FUJ	DX2000	B-69179	TECHNICAL	USERS MANUAL
FUJ	M2331K/M2333K	B03P47600111A	SERVICE	N/A
FUJ	M2351A	B03P46550001AD	ENGINEERING	N/A
FUJ	M2372K	41FH5025E 01A	ENGINEERING	N/A
FUS	M2331K/M2333K	B03P-47	X	NEWER VERSION
FXR	B813T	N/A	X	N/A
FXR	S L C X772A	N/A	O	N/A
FXR	Z817A	N/A	O	N/A
GAERTNER	7109-S-254-BR	N/A	O	N/A
GAERTNER	L250-93	N/A	O	N/A
GAERTNER	L370-NK	N/A	SERVICE	N/A
GAERTNER	M903 & M904	N/A	OPERATOR	N/A
GAI	SPC-16	97A00003A	SERVICE	1205
GAI	SPC-16/40/60/80	88A00234A-C	OPERATOR	1205
GAI	SPC-16/40/60/80	88A00243A-B	TECHNICAL	1205-1299T
GAI	G3	82S00952A	SCHEMATICS	SPECIFICATION
GAI	G3	G3-01	OPERATOR	N/A
GAI	G3	88A00546A-A	PROGRAM	N/A
GAI	G3	94A01778A	PROGRAM	N/A
GAI	G3	G3-00	PROGRAM	N/A
GAI	SPC 16	SPC 16	SCHEMATICS	N/A
GAI	SPC/12	88A00105A	E	N/A
GAI	SPC/16	88A00150A-F	N	N/A
GAI	SPC-16	88A00424A-A	SCHEMATICS	N/A
GAI	SPC-16	SPC-16	TECHNICAL	N/A
GAMMA SCIENTIFIC	220	N/A	N	INSTRUCTION BOOK
GASTECH	1220	N/A	N	N/A
GASTECH	1238	N/A	N	N/A
GASTECH	1314	N/A	N	N/A
GASTECH	1562	N/A	N	N/A
GASTECH	1620	N/A	N	N/A
GASTECH	OX-80	N/A	X	N/A
GASTECH	OX-82	N/A	X	N/A
GATES	G-1671G157R	N/A	K	N/A
GATES	G2-2U	N/A	C	N/A
GBC TV	MINIMAX	N/A	C	N/A
GCA/MCPHERSON	650	N/A	E	OPERATION
GCA/MCPHERSON	2051	N/A	C	OPERATION
GCA/MCPHERSON	2051-1	N/A	C	OPERATION
GCA/MCPHERSON	785A/B	N/A	K	OPERATION
GE	A2258G704	N/A	INSTALLATION	PART OF SERVICE MANUAL
GE	21C2582G002	N/A	E	PART OF TECHNICAL MANUAL
GE	4TN2505A/06A/07A	N/A	X	USER'S MANUAL
GE	SPG-6	N/A	OPERATOR	N/A
GEK	K80	K-80	SERVICE	OPERATION THEORY MAINTENANCE
GEL	Q LINE	GEA-8481B	N/A	CIRCUIT BREAKERS
GEL	CR205/CR206	GEH3630A	N/A	IPB MAGNETICRSTARTERS
GEL	6PA4364A97	GEK30533	IPB	MG SET
GEL	44C414122-G04	GEK-14776	SERVICE	PAPER TAPE PNCH
GEL	44C414121-G02	GEK-14776	OPERATOR	PAPER TAPE RDR
GEL	2000 SERIES	GEK-49380C	SERVICE	PRINTER
GEMINI ELECTRONICS	SA-501	N/A	INSTRUCTION	SERVICE MANUAL
GENERAL EASTERN	HYGRO-M3	N/A	OPERATING/SERVICE	HUMIDITY ANALYZER
GENERAL EASTERN	1500	N/A	INSTRUCTION	HYGROCOMPUTER
GENERAL EASTERN	1200APS 1200EPS	N/A	INSTRUCTION	HYGROMETERS CONDENSATION DEW POINT
GENERAL EASTERN	1200APS	N/A	INSTRUCTION	M00874/HYGROMETER CONDENSATION DEW POINT
GENERAL EASTERN	HYGRO-M1 HYGRO-E1	N/A	INSTRUCTION	OPTICAL DEW POINT MONITORS
GENERAL EASTERN	HYGRO-M1 HYGRO-E1	N/A	INSTRUCTION	OPTICAL DEW POINT MONITORS
GENERAL EASTERN	HYGRO-M2 HYGRO-E2	N/A	OPERATING/SERVICE	OPTICAL DEW POINT/HUMIDITY MONITORS
GENERAL EASTERN	400 SERIES	N/A	INSTRUCTION	RH/TEMP INDICATOR
GENERAL EASTERN INSTRUMENTS	1011B	N/A	E	DEW POINT HYGROMETER FOR AIRCRAFT
GENERAL EASTERN INSTRUMENTS	1011B	N/A	X	DEW POINT HYGROMETER FOR AIRCRAFT
GENERAL ELECTRIC	A2258G704	N/A	E	ACCEPTANCE
GENERAL ELECTRIC	A2258G704	N/A	E	ACCEPTANCE
GENERAL ELECTRIC	A2258G704	N/A	E	ACCEPTANCE
GENERAL ELECTRIC	A2258G704	N/A	X	ACCEPTANCE
GENERAL ELECTRIC	A2258G704	N/A	X	ACCEPTANCE
GENERAL ELECTRIC	904J038-1/2/3	N/A	E	INSTRUCTION
GENERAL ELECTRIC	H221-1	N/A	T	INSTRUCTION (AF T.O.)
GENERAL ELECTRIC	HP-11/13/14/15	N/A	T	INSTRUCTIONS W/SCHEMATICS
GENERAL ELECTRIC	2050074	N/A	X	N/A
GENERAL ELECTRIC	9156392G1	N/A	E	N/A
GENERAL ELECTRIC	GEI 17954	N/A	O	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
GENERAL ELECTRIC	GEI 19812	N/A	E	N/A
GENERAL ELECTRIC	GEI 27364	N/A	T	N/A
GENERAL ELECTRIC	HP-11/13/14/15	N/A	T	N/A
GENERAL ELECTRIC	HP-13/14	N/A	J	N/A
GENERAL ELECTRIC	HP-13/14	N/A	X	N/A
GENERAL ELECTRIC	MPE & PE	N/A	X	N/A
GENERAL ELECTRIC	PM-1	N/A	J	N/A
GENERAL ELECTRIC	SNLA	N/A	J	N/A
GENERAL MICROWAVE	451 545A/AR	N/A	E	N/A
GENERAL MILLS	SP-100-1R	N/A	E	N/A
GENERAL RADIO	1615/1620	N/A	E	INSTRUCTION
GENERAL RADIO	2990-9221	N/A	E	INSTRUCTION
GENERAL RADIO	1433	N/A	X	INSTRUCTION MANUAL
GENERAL RADIO	1654	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1822	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1230-A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1232-A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1232A/1240A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1232A/1240A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1311-A	N/A	X	INSTRUCTION MANUAL
GENERAL RADIO	1644-A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	1650-A	N/A	E	INSTRUCTION MANUAL
GENERAL RADIO	WSMT3	N/A	X	INSTRUCTIONS SHEET
GENERAL RADIO	1925	N/A	E	MULTIFILTER
GENERAL RADIO	1311-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1554-A	N/A	A	OPERATING INSTRUCTIONS
GENERAL RADIO	1608-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1615-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1615-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1615-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1615-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1632-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1660-A	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1862-A	N/A	X	OPERATING INSTRUCTIONS
GENERAL RADIO	1862-C	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	650-A	N/A	U	OPERATING INSTRUCTIONS
GENERAL RADIO	650-P1	N/A	E	OPERATING INSTRUCTIONS
GENERAL RADIO	1390-B	N/A	E	RANDOM-NOISE GENERATOR
GENERAL RADIO	1557A	N/A	E	SHAKER
GENERAL RADIO	1434	N/A	X	SPECIFICATION DATA
GENERAL RADIO	1455	N/A	E	VARIOUS REVISIONS
GENERAL RADIO	1553A	N/A	A	VIBRATION METER
GENERAL RADIO	1560P11B	N/A	E	VIBRATION TRANSDUCER
GENERAL RADIO	1203-B	N/A	E	N/A
GENERAL RADIO	GR-1935	N/A	E	N/A
GENERAL RADIO	W10/W20/W50	N/A	E	N/A
GENERAL RADIO	W30	N/A	E	N/A
GENERAL RESISTANCE	E-35	N/A	N/A	CALIBRATION PROCEDURES
GENERAL RESISTANCE	DAS 46A	N/A	E	DIAL-A-SOURCE
GENERAL RESISTANCE	6003EA	N/A	E	INSTRUCTION
GENERAL RESISTANCE	DAS-40 - 80	N/A	E	INSTRUCTION MANUAL
GENERAL RESISTANCE	DAS-46	N/A	E	INSTRUCTION MANUAL
GENERAL RESISTANCE	DAS-46A/AX/AL	N/A	X	INSTRUCTION MANUAL
GENERAL RESISTANCE	DAV-46	N/A	E	INSTRUCTION MANUAL
GENERAL RESISTANCE	E-35	N/A	T	OPERATING INSTRUCTIONS
GENERAL RESISTANCE	DIAL A SOURCE	N/A	E	N/A
GENERAL RESISTANCE	TSC-46	N/A	X	N/A
GENERAL SCANNING	CX660	N/A	X	INSTRUCTION
GENERAL SCANNING INC	CX 660	N/A	R	N/A
GENISCO	SP100	N/A	B	CATALOG
GENISCO	SP500	N/A	F	CATALOG
GENISCO	CATALOG	N/A	B	ROTATIONAL MEASURING INSTRUMENTS
GENISCO	A135	N/A	B	N/A
GENTRAN	PG141D	N/A	N/A	CATALOG
GER & SCH	FM3	N/A	X	N/A
GERBER	37743	N/A	B	N/A
GIANNINI	1010-SP-13	N/A	B	N/A
GIC-110A	CVC	N/A	O	N/A
GIC-111A	CVC	N/A	E	N/A
GIER DUNKLE	DB100	N/A	O	OPERATING INSTRUCTIONS
GIER DUNKLE	DB100	N/A	O	OPERATION/MAINTENANCE
GIER DUNKLE	MS-251	N/A	B	OPERATION/MAINTENANCE
GIER DUNKLE	MS-251	N/A	L	OPERATION/MAINTENANCE
GILBARCO	SHL-100	N/A	B	N/A
GILMORE	2250 MB	N/A	B	3 MANUALS
GILMORE	151	N/A	B	CATALOG
GILMORE	152	N/A	B	CATALOG
GILMORE	155	N/A	B	CATALOG
GILMORE	156	N/A	X	CATALOG
GILMORE	172	N/A	N	CATALOG
GILMORE	500	N/A	B	CATALOG
GILMORE	510	N/A	X	CATALOG
GILMORE	540	N/A	X	CATALOG
GILMORE	409	N/A	B	N/A
GILMORE	815 A/B	N/A	C	N/A
GILMORE	PM 50	N/A	W	N/A
GILSON	FC-80H	N/A	X	N/A
GISHOLT	TYPE S	N/A	N/A	N/A
GLOBAL	1302	N/A	OPERATOR	INSTRUCTION MANUAL
GLOBAL	1301	N/A	X	N/A
GLOBAL	4001	N/A	SERVICE	N/A
GNM	4400 SERIES	GEK-88705	SERVICE	OPERATOR'S GUIDE
GNM	4470/4490	GEK-88721	X	SERVICE MANUAL
GNM	4410/4440	GEK-88582	MAINTENANCE	N/A
GNM	LW855	44689031	X	N/A
GOULD	481	N/A	N/A	2 MANUALS
GOULD	816	N/A	W	2 MANUALS
GOULD	13 4215 62 & 72	N/A	N/A	6 MANUALS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
GOULD	CATALOG	N/A	E	ELECTRONIC MEASURING INSTRUMENTS
GOULD	4035	N/A	W	OPERATION AND MAINTENANCE
GOULD	PRESS TRANS. SYS	N/A	X	OPERATION MANUAL
GOULD	PRESS TRANS. SYS	N/A	N/A	OPERATION MANUAL
GOULD	TA4000	N/A	X	REPAIR
GOULD	13-4215-32	N/A	X	SERVICE & OPERATORS MANUAL
GOULD	3600 & 3800	N/A	N/A	SERVICE MANUAL
GOULD	500	N/A	W	SPECS ONLY
GOULD	56-1340-00/57-1340-00	N/A	E	USER'S MANUAL
GOULD	481	N/A	W	N/A
GOULD	1421	N/A	K	N/A
GOULD	13-4211-20 26	N/A	X	N/A
GOULD	13-4215-46	N/A	K	N/A
GOULD	13-4615-10	N/A	N/A	N/A
GOULD	MARK 200/1707 SR	N/A	E	N/A
GOULD INC.	8191-1	N/A	SERVICE	NO MANUALS AVAILABLE
GOULD-BRUSH	RD 4215-70	N/A	SERVICE	NO PARTS LOCATOR
GOV	2800S	2107-808XXX0XU	O	GOULD CHART RECORDER
GOV	13-4615-10	13-804615-10	PROGRAM	GOULD DC PREAMP
GOV	IEEE-488	321-003030-000	DIAGNOSTICS	SOFTWARE MANUAL
GOW-MAC INSTRUMENTS	80-500	N/A	SERVICE	OPERATION
GPC	180	4000105	SERVICE	INCLUDES DISK
GPC	250	4000109	SERVICE	PARTS BREAKDOWN
GPH	200 SERIES	901-0013-01A	OPERATOR	GO-200 SERIES COPY 2
GPH	GO-140	901-0001-04B	SCHEMATICS	GRAPHICS TERMINAL
GPH	GO-250	GO250	SCHEMATICS	GRAPHICS TERMINAL
GPH	GO230	601-0015-01A	SERVICE	LOGIC CIRCUIT
GPH	GO100/140	901000202A	SERVICE	LOGIC IPB
GPH	GO-200	901-0013-01A	SCHEMATICS	MAINTENANCE
GPH	GO220/240	601-0014-01A	OPERATOR	MONITOR
GPH	WR3600	WR3600-UM-251	X	THERMAL ARAY CORDER
GPH	GO250	901-0010-02A	SERVICE	USER'S GUIDE
GPH	200	600-0018-01AW	SERVICE	N/A
GPH	GO200 SERIES	601-0017-01A	SCHEMATICS	N/A
GPH	MOUSE	601-0009-01A	B	N/A
GPH-100A	CVC	N/A	X	N/A
GPL	PD-142	N/A	X	N/A
GR	1191	N/A	X	2 MANUALS
GR	1176A	N/A	X	2 MANUALS
GR	1210C	N/A	X	2 MANUALS
GR	1390B	N/A	X	2 MANUALS
GR	1521B	N/A	X	2 MANUALS
GR	1557A	N/A	X	2 MANUALS
GR	1862C	N/A	X	2 MANUALS
GR	413-B	N/A	X	2 MANUALS
GR	546C	N/A	X	2 MANUALS
GR	648A	N/A	X	2 MANUALS
GR	759-B	N/A	X	2 MANUALS
GR	857-A	N/A	X	2 MANUALS
GR	1025A	N/A	X	3 MANUALS
GR	1304A	N/A	X	3 MANUALS
GR	620A	N/A	X	3 MANUALS
GR	723	N/A	X	N/A
GR	1159	N/A	F	N/A
GR	1309	N/A	X	N/A
GR	1330	N/A	X	N/A
GR	1382	N/A	X	N/A
GR	1522	N/A	X	N/A
GR	1522	N/A	X	N/A
GR	1523	N/A	X	N/A
GR	1540	N/A	X	N/A
GR	1561	N/A	X	N/A
GR	1568	N/A	X	N/A
GR	1656	N/A	X	N/A
GR	1800	N/A	X	N/A
GR	1923	N/A	X	N/A
GR	1925	N/A	X	N/A
GR	1926	N/A	X	N/A
GR	1952	N/A	X	N/A
GR	1001A	N/A	X	N/A
GR	1021A	N/A	X	N/A
GR	1105-A	N/A	X	N/A
GR	1107-A	N/A	X	N/A
GR	1115C	N/A	X	N/A
GR	1130A	N/A	X	N/A
GR	1137A	N/A	X	N/A
GR	1142A	N/A	F	N/A
GR	1153A/AP	N/A	F	N/A
GR	1161 62 63	N/A	F	N/A
GR	1201A	N/A	X	N/A
GR	1203B	N/A	X	N/A
GR	1206B	N/A	X	N/A
GR	1208C	N/A	X	N/A
GR	1209 B/BL	N/A	X	N/A
GR	1211C	N/A	X	N/A
GR	1217A	N/A	X	N/A
GR	1217C	N/A	X	N/A
GR	1231B	N/A	X	N/A
GR	1232-P1	N/A	X	N/A
GR	1232-P2	N/A	X	N/A
GR	1233A	N/A	X	N/A
GR	1302A	N/A	X	N/A
GR	1304B	N/A	X	N/A
GR	1310A	N/A	X	N/A
GR	1311A/AU	N/A	X	N/A
GR	1521-B	N/A	X	N/A
GR	1523-P1	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
GR	1523-P2/P3	N/A	X	N/A
GR	1523-P5	N/A	X	N/A
GR	1531A	N/A	X	N/A
GR	1532A	N/A	X	N/A
GR	1538A	N/A	X	N/A
GR	1550A	N/A	X	N/A
GR	1551A	N/A	X	N/A
GR	1552A	N/A	X	N/A
GR	1558A	N/A	X	N/A
GR	1564A	N/A	X	N/A
GR	1602B	N/A	X	N/A
GR	1605A/AH	N/A	X	N/A
GR	1608A	N/A	X	N/A
GR	1611B	N/A	X	N/A
GR	1650A	N/A	X	N/A
GR	1680A	N/A	X	N/A
GR	1806A	N/A	X	N/A
GR	1840A	N/A	X	N/A
GR	1863/64	N/A	X	N/A
GR	1900A	N/A	X	N/A
GR	1921-P2	N/A	X	N/A
GR	2990-9220	N/A	X	N/A
GR	434-B	N/A	X	N/A
GR	546B	N/A	X	N/A
GR	561-D	N/A	X	N/A
GR	631BL	N/A	X	N/A
GR	713-B	N/A	X	N/A
GR	726A	N/A	X	N/A
GR	727A	N/A	X	N/A
GR	736-A	N/A	X	N/A
GR	834-B	N/A	X	N/A
GR	900LB	N/A	X	N/A
GR	913-C	N/A	X	N/A
GR	916A	N/A	A	N/A
GR	916AL	N/A	W	N/A
GR	NOISE PRIMER	N/A	E	N/A
GR	STANDARD INDUC.	N/A	X-V	N/A
GR	W-20	N/A	B	N/A
GRAFLEX	STROBOFLASH	N/A	B	SERVICE & PARTS CATALOG
GRANVILLE PHILLIPS	SR 236 MODEL 02	N/A	N/A	2 MANUALS
GRANVILLE PHILLIPS	213	N/A	B	OPERATION ONLY SCHEMATICS
GRANVILLE PHILLIPS	2	N/A	X	N/A
GRANVILLE PHILLIPS	212	N/A	B	N/A
GRANVILLE PHILLIPS	213	N/A	B	N/A
GRANVILLE PHILLIPS	224	N/A	B	N/A
GRANVILLE PHILLIPS	236	N/A	B	N/A
GRANVILLE PHILLIPS	275	N/A	X	N/A
GRANVILLE PHILLIPS	280	N/A	W	N/A
GRAPHTEC	WR3101	N/A	W-K-A	SERVICE AND PARTS
GRAPHTEC	WR3600	N/A	SCHEMATICS	SERVICE MANUAL
GRAY MANUFACTURING	AM-22-NV	N/A	TECHNICAL	N/A
GRD	2515	25150101	D	ALSO MODEL 25159
GRD	2515	25150102	N/A	ALSO MODEL 25159-LB
GREAT WESTERN TECH.	ACD 1431	N/A	SCHEMATICS	MAINTENANCE MANUAL NOT YET PRINTED
GRISWOLD	OPI	N/A	U	DIVIDING HEAD
GRN	GMR-27	GMR-27	SERVICE	TUBE
GRUNDIG	TK830 TM830	N/A	TECHNICAL	N/A
GSY	1520/1530/1535	001500-50	Q	HARDWARE TECHNICAL REFERENCE
GSY	1550	MSG2201550	R	SERVICE
GSY	1520 1530 1535	MSG2201500	SERVICE	SERVICE DIAGNOSTIC
GTE INFO-SYSTEMS INC	IS/2123	N/A	R	N/A
GUIDANCE TECH.	CN-1169/A	N/A	E	GRYO
GUIDANCE TECH.	44012	N/A	E	GRYOS
GUILDLINE	9575	N/A	E	OPERATING MANUAL PART 1
GUILDLINE	9575	N/A	E	OPERATING MANUAL PART 2
GUILDLINE	9575	N/A	E	OPERATING MANUAL PART 3
GUILDLINE	9152	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9520	N/A	E	TECHNICAL MANUAL
GUILDLINE	9535	N/A	E	TECHNICAL MANUAL
GUILDLINE	9577	N/A	E	TECHNICAL MANUAL
GUILDLINE	9700	N/A	E	TECHNICAL MANUAL
GUILDLINE	9700	N/A	E	TECHNICAL MANUAL
GUILDLINE	9700	N/A	E	TECHNICAL MANUAL
GUILDLINE	9700	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9730	N/A	E	TECHNICAL MANUAL
GUILDLINE	9734	N/A	E	TECHNICAL MANUAL
GUILDLINE	9975	N/A	K	TECHNICAL MANUAL
GUILDLINE	9975	N/A	K	TECHNICAL MANUAL
GUILDLINE	9154D	N/A	E	TECHNICAL MANUAL
GUILDLINE	9460A	N/A	E	TECHNICAL MANUAL
GUILDLINE	9462A	N/A	E	TECHNICAL MANUAL
GUILDLINE	9770A	N/A	E	TECHNICAL MANUAL
GUILDLINE	9770C	N/A	E	TECHNICAL MANUAL
GUITON	KF1090/KF1290	N/A	K-X	N/A
GULF AEROSPACE CORP.	538	N/A	K	N/A
GULL ENGINEERING INC	1031	N/A	E	N/A
GULTON	400	N/A	K-X	OPERATION AND SERVICE
GULTON	CATALOG	N/A	K-X	VARIOUS MODELS OF ACCELS
GULTON	215/SN672	N/A	R	N/A
GULTON	FT-1071	N/A	X	N/A



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
GULTON	FT-1071B-1 3 11	N/A	X-K	N/A
GULTON	FT-5002	N/A	W	N/A
GULTON	M-285 SERIES	N/A	IPB	N/A
GULTON-RUSTRAK	288-291	N/A	TECHNICAL	2 MANUALS
GYR	TC3800	4900618-0-00	A	TAPE RECORDER
GYR	TC3800	4832807-4	SCHEMATICS	TIME LAPSE VCR
GYR	TC3800	4832807-1	SERVICE	TIME LAPSE VCR
GYR	TC3800	4832807-2	TECHNICAL	TIME LAPSE VCR
GYR	TC3800	4832807-3	X	TIME LAPSE VCR
H.P.	3495	N/A	E	N/A
H.P.	9876	N/A	T	N/A
H.P.	3455A	N/A	E	N/A
H.P.	3478A	N/A	E	N/A
H.P.	400E	N/A	E	N/A
H.P.	400EL	N/A	E	N/A
H.P.	5300B	N/A	E	N/A
H.P.	5310A	N/A	E	N/A
H.P.	5312A	N/A	E	N/A
H.P.	6102A	N/A	T	N/A
HAAKE	NB22	N/A	TECHNICAL	INSTRUCTION/SCHEMATIC
HAAKE	NK22	N/A	OPERATOR	INSTRUCTION/SCHEMATIC
HALA	QM-1	A014	TECHNICAL	ACCEPTANCE
HALA	9002/9003	HARC 9003	TECHNICAL	HARC AIRLAB QM1/PDP
HALA	9002/9003	HARC 9002	TECHNICAL	QM-PDP
HALA	QM-1	A004	TECHNICAL	VAX INTERFACE
HALA	QM-1	A017	J	N/A
HALA	QM-1	HARC 9000	J	N/A
HALLICRAFTERS CO.	HT-9	N/A	J	N/A
HALLICRAFTERS CO.	MHS-400	N/A	H	N/A
HALLICRAFTERS CO.	S-36	N/A	X	N/A
HALLIKAINEN	1215 & 1220	N/A	B	N/A
HAMEG	HM8021-3	N/A	B	SERVICE MANUAL
HAMILTON STANDARD	SUPERJET	N/A	I	GYRO
HAMILTON STANDARD	PR-0505-6A	N/A	R	N/A
HAMILTON STANDARD	PT-0205-6D	N/A	J	N/A
HAMMARLUND	HQ-180 SERIES	N/A	I	N/A
HAMMER ELECT. CO.	N-4035	N/A	I	SCHEMATICS & OPERATION
HAMMER ELECT. CO.	N-357	N/A	G	N/A
HAMMER ELECT. CO.	N-371	N/A	K-I	N/A
HAMMER ELECT. CO.	NL-14	N/A	OPERATING	N/A
HAMMER ELECT. CO.	NS-11 & NT-11	N/A	INSTRUCTION	N/A
HANNA INSTRUMENTS	8666	N/A	TECHNICAL	RH/TEMP TRANSMITTER
HANNA INSTRUMENTS	HI 8564	N/A	E	THERMOHYGROMETER PORTABLE
HARC	QM-1/VAX11/780	9000	X	HARDWARE INTERFACE
HARDY SCALES	V	N/A	X	INSTALLATION AND OPERATION
HARMON CARDEN	CITATION II	N/A	X	SCHEMATIC
HARRISON LAB.	520A	N/A	X	2 MANUALS
HARRISON LAB.	6201A	N/A	X	2 MANUALS
HARRISON LAB.	6367A	N/A	X	2 MANUALS
HARRISON LAB.	881A	N/A	F	SCHEMATIC
HARRISON LAB.	700A	N/A	X	SCHEMATIC INCLUDED
HARRISON LAB.	510A	N/A	X	N/A
HARRISON LAB.	6204A	N/A	X	N/A
HARRISON LAB.	6902A	N/A	X	N/A
HARRISON LAB.	802B	N/A	X	N/A
HARRISON LAB.	809A	N/A	X	N/A
HARRISON LAB.	810B	N/A	X	N/A
HARRISON LAB.	814A	N/A	X	N/A
HARRISON LAB.	855B	N/A	X	N/A
HARRISON LAB.	855C	N/A	X	N/A
HARRISON LAB.	865B	N/A	X	N/A
HARSHAW	NV-24	N/A	X	SERVICE MANUAL
HARSHAW	N-276 & N-277	N/A	I	N/A
HARSHAW	NT-29	N/A	I	N/A
HARSHAW CHEMICAL CO.	2000	N/A	USER MANUAL	N/A
HARSHAW CHEMICAL CO.	N-803	N/A	USER MANUAL	N/A
HART SCIENTIFIC	1575	N/A	B	SUPER-THERMOMETER RESISTANCE MEASUREMENT DEVICE
HART SCIENTIFIC	1575	N/A	B	SUPER-THERMOMETER RESISTANCE MEASUREMENT DEVICE
HASSELBLAD	500 EL/70	N/A	B	N/A
HASSELBLAD	500EL	N/A	L	N/A
HASTINGS	TP-7A	N/A	B	2 MANUALS
HASTINGS	VT-6S	N/A	USERS'	7 MANUALS
HASTINGS	VT EVT CVT ECVT	N/A	B	OPERATION AND SERVICE MANUAL
HASTINGS	400	N/A	L	N/A
HASTINGS	304C	N/A	L	N/A
HASTINGS	AM-12RX	N/A	L	N/A
HASTINGS	AM-12RX	N/A	L	N/A
HASTINGS	AM-42	N/A	B	N/A
HASTINGS	B-27X	N/A	L	N/A
HASTINGS	B-27X	N/A	L	N/A
HASTINGS	B-27X	N/A	L	N/A
HASTINGS	B-27X	N/A	L	N/A
HASTINGS	CP-ID	N/A	L	N/A
HASTINGS	CST	N/A	L	N/A
HASTINGS	CST-100	N/A	L	N/A
HASTINGS	CV-ID	N/A	L	N/A
HASTINGS	CV-IU	N/A	L	N/A
HASTINGS	CVT-14	N/A	L	N/A
HASTINGS	CVT-15	N/A	L	N/A
HASTINGS	CVT-16	N/A	B	N/A
HASTINGS	CVT-6	N/A	L	N/A
HASTINGS	DV-13	N/A	B	N/A
HASTINGS	FS	N/A	L	N/A
HASTINGS	GV-31B	N/A	L	N/A
HASTINGS	GV-31BX	N/A	L	N/A
HASTINGS	HBM-1	N/A	L	N/A
HASTINGS	HF-10	N/A	L	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HASTINGS	HFC-202B	N/A	L	N/A
HASTINGS	HFM-200	N/A	L	N/A
HASTINGS	HFM-201	N/A	L	N/A
HASTINGS	LF SERIES	N/A	L	N/A
HASTINGS	LF-100	N/A	L	N/A
HASTINGS	LF-10KR	N/A	L	N/A
HASTINGS	LF-1K	N/A	L	N/A
HASTINGS	LF-20	N/A	L	N/A
HASTINGS	LF-20K	N/A	L	N/A
HASTINGS	LF-2K	N/A	L	N/A
HASTINGS	LF-300	N/A	L	N/A
HASTINGS	LF-8K	N/A	B	N/A
HASTINGS	LF-K & SM-1	N/A	B	N/A
HASTINGS	NV-77A	N/A	L	N/A
HASTINGS	NV-8	N/A	L	N/A
HASTINGS	PI-1-01	N/A	L	N/A
HASTINGS	PI-1-P1	N/A	B	N/A
HASTINGS	PR-4A	N/A	B	N/A
HASTINGS	RV-7	N/A	B	N/A
HASTINGS	RV-8	N/A	B	N/A
HASTINGS	RV-9	N/A	L	N/A
HASTINGS	SA-1	N/A	L	N/A
HASTINGS	SL-IR	N/A	B	N/A
HASTINGS	SL-IX	N/A	L	N/A
HASTINGS	SP-1X	N/A	L	N/A
HASTINGS	ST	N/A	L	N/A
HASTINGS	ST-500	N/A	L	N/A
HASTINGS	ST-H	N/A	L	N/A
HASTINGS	SV-1	N/A	L	N/A
HASTINGS	TNALL-10KP	N/A	L	N/A
HASTINGS	TNALL-P	N/A	B	N/A
HASTINGS	TV-4A	N/A	L	N/A
HASTINGS	VT-4	N/A	B	N/A
HASTINGS	VT-4	N/A	L	N/A
HASTINGS	VT-6	N/A	E	N/A
HASTINGS	VT-6	N/A	L	N/A
HATHAWAY	C-6B	N/A	Q	OPERATION AND SERVICE
HATHAWAY PROMAC INC.	DHT740	N/A	Q	MULTIPURPOSE CALIBRATOR
HAYES	MODEMS	N/A	C	ALL TECHNICAL DATA IS PROPRIETARY
HAYES	V-SERIES	N/A	SERVICE	USERS GUIDE FOR THE ULTRA 24 96 144.
HAYS	2011	N/A	OPERATOR	N/A
HAZE	2000C	HI-1028	OPERATOR	22000 UP
HAZE	2000	HI1004A	SCHEMATICS	N/A
HAZE	2000	HI1007	SERVICE	N/A
HDS	108	DN1300-8108-2	SERVICE	DIAGRAMS 108
HDS	3200	DN-13CS-8803-1	SERVICE	OPERATIONS INSTALLATION
HDS	HDS3200	DN13CS-8805-19	X	PROGRAMMER'S MANUAL
HDS	200	13H1-8512-1	OPERATOR	N/A
HDS	108 SERIES	DN1300-8108-1R	SERVICE	N/A
HDS	200/2000	13H1-8703-1	OPERATOR	N/A
HDS	HDS3200	C.SRVMN3200	ENGINEERING DRAWING SET	N/A
HEADWAY RESEARCH INC	EC101	N/A	PROGRAMMER'S REFERENCE	N/A
HEAT	635	9520635125	MANUAL	SYSTEM ADMINISTRATOR'S REF
HEAT	SERIES 635	6720000101-A	F	MANUAL
HEAT	SERIES 635	6721000112	E	ENGINEERING DRAWINGS IN LONGBOOK SECTION
HEATH	IB-28	N/A	F	PROGRAMMERS REF. GUIDE FOR SERIES 635
HEATH	GCW-1000	N/A	X	SYSTEM ADMINISTRATOR'S REF. MANUAL
HEATH	PS-4	N/A	X	ASSEMBLY MANUAL
HEIDENHAIN	ROD800	N/A	N/A	N/A
HEIDENHAIN	VRZ460	N/A	B	OPERATORS
HEIDENHAIN	VRZ480	N/A	X	OPERATORS
HEKIMIAN LABS	41-01	N/A	X	OPERATORS
HENCO	HD-16 1X2V	N/A	X	N/A
HERSHEY MFG. CO.	M	N/A	SCHEMATICS	INSTALLATION MANUAL
HERSHEY-AIMES	1500	N/A	SCHEMATICS	ONLY SCHEMATIC
HET	3100	36671-8603-03	Q	N/A
HET	3100	36694-8611	W	FOR CAT "A"CT301C LINE PRINTERS-LB
HEWLETT PACKARD	5334A	N/A	F	PRINTER
HEWLETT PACKARD	450A	N/A	E	2 OPERATOR'S & 2 SERVICE MANUALS
HEWLETT PACKARD	SYSTEM 35 ROM	N/A	USER GUIDE	AMP.
HEWLETT PACKARD	350C/D	N/A	X	ASSEMBLY ROM INSTRUCTION
HEWLETT PACKARD	205A	N/A	X	ATTENUATOR SET
HEWLETT PACKARD	9000	N/A	P	AUDIO GEN.
HEWLETT PACKARD	9000	N/A	E	BASIC 4.0 GRAPHICS
HEWLETT PACKARD	9000	N/A	E	BASIC 4.0 INTERFACING
HEWLETT PACKARD	9000	N/A	E	BASIC 4.0 PROGRAMMING
HEWLETT PACKARD	9000	N/A	E	BASIC 4.0 USERS GUIDE
HEWLETT PACKARD	9000	N/A	E	BASIC 4.0 UTILITIES
HEWLETT PACKARD	9835A	N/A	P	BASIC QUICK REFERENCE
HEWLETT PACKARD	98033A	N/A	X	BCD INTERFACE
HEWLETT PACKARD	9835A	N/A	P	BEGINNER'S GUIDE
HEWLETT PACKARD	8560/61/63 E	N/A	INSTALLATION OPERATION	PROGRAMMING AND SERVICE
HEWLETT PACKARD	3245A	N/A	MANUALA	MANUALA
HEWLETT PACKARD	8591C	N/A	X	CALIBRATION GUIDE
HEWLETT PACKARD	8591E	N/A	N/A	CALIBRATION MANUAL
HEWLETT PACKARD	8593E	N/A	N/A	CALIBRATION MANUAL
HEWLETT PACKARD	8594E	N/A	N/A	CALIBRATION MANUAL
HEWLETT PACKARD	8595E	N/A	N/A	CALIBRATION MANUAL
HEWLETT PACKARD	8596E	N/A	N/A	CALIBRATION MANUAL
HEWLETT PACKARD	4278A	N/A	X	CAPACITANCE METER 1KHZ/1MHZ
HEWLETT PACKARD	8564A/85645A	N/A	N/A	COMPONENT LEVEL INFORMATION
HEWLETT PACKARD	5360A/5365A	N/A	F	COMPUTING COUNTER
HEWLETT PACKARD	35665A	N/A	N/A	CONCEPTS GUIDE
HEWLETT PACKARD	9000	N/A	E	CONFIGURATION REFERENCE
HEWLETT PACKARD	9000 SERIES 300	N/A	P	CONFIGURATION REFERENCE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	5245L	N/A	F	COUNTER
HEWLETT PACKARD	5302A	N/A	E	COUNTER
HEWLETT PACKARD	59303A	N/A	X	D-A CONVERTER
HEWLETT PACKARD	6102A	N/A	X	DC POWER SUPPLY
HEWLETT PACKARD	6205B	N/A	X	DC POWER SUPPLY
HEWLETT PACKARD	6205B	N/A	N/A	DC POWER SUPPLY
HEWLETT PACKARD	6459A	N/A	X	DC POWER SUPPLY
HEWLETT PACKARD	5328A	N/A	N/A	DIGITAL COUNTER
HEWLETT PACKARD	3455A	N/A	E	DIGITAL MULTIMETER
HEWLETT PACKARD	3478A	N/A	E	DIGITAL MULTIMETER
HEWLETT PACKARD	7DCDT	N/A	X	DISPLACEMENT TRANSDUCER
HEWLETT PACKARD	HP70004A	N/A	N/A	DISPLAY OP MANUAL
HEWLETT PACKARD	3561A	N/A	N/A	DYNAMIC SIGNAL ANALYZER -100KHZ
HEWLETT PACKARD	1515A/B	N/A	X	ECG PHONE TERM
HEWLETT PACKARD	5512A	N/A	X	ELECTRONIC COUNTER
HEWLETT PACKARD	608F	N/A	E	FILED IN CABINET
HEWLETT PACKARD	CATALOG	N/A	X	FONT CARTRIDGES
HEWLETT PACKARD	500B/500C	N/A	X	FREQ. METER
HEWLETT PACKARD	54503A	N/A	SERVICE	FRONT PANEL REF
HEWLETT PACKARD	SYSTEM 35	N/A	P	GENERAL UTILITIES ROUTINES
HEWLETT PACKARD	7470A	N/A	X	GRAPHICS PLOTTER
HEWLETT PACKARD	9000 SERIES 200	N/A	P	GRAPHICS TECHNIQUES
HEWLETT PACKARD	9000 SERIES 300	N/A	P	GRAPHICS TECHNIQUES
HEWLETT PACKARD	BASIC 3.0	N/A	Q	GRAPHICS TECHNIQUES
HEWLETT PACKARD	4329A	N/A	X	HIGH RESISTANCE METER
HEWLETT PACKARD	SHARED RES. MGT.	N/A	P	HP SERIES 200
HEWLETT PACKARD	98034	N/A	E	HP-IB INTERFACE
HEWLETT PACKARD	98034A	N/A	Q	HP-IB INTERFACE
HEWLETT PACKARD	35665A	N/A	N/A	HP-IB PROGRAMMING
HEWLETT PACKARD	9835A	N/A	X	I/O ROM PROGRAMMING
HEWLETT PACKARD	SYSTEM 35	N/A	P	I/O ROM PROGRAMMING
HEWLETT PACKARD	HP70900B	N/A	N/A	INSTALL AND VERIFICATION
HEWLETT PACKARD	98034	N/A	Q	INSTALLATION
HEWLETT PACKARD	3497A	N/A	E	INSTALLATION
HEWLETT PACKARD	35665A	N/A	X	INSTALLATION
HEWLETT PACKARD	70001A	N/A	S	INSTALLATION
HEWLETT PACKARD	98032A	N/A	P	INSTALLATION
HEWLETT PACKARD	85620A	N/A	N/A	INSTALLATION OPERATION PROGRAMMING AND SERVICE MANUAL
HEWLETT PACKARD	9000	N/A	P	INSTALLATION REFERENCE
HEWLETT PACKARD	35	N/A	X	INSTRUCTION
HEWLETT PACKARD	35	N/A	X	INSTRUCTION
HEWLETT PACKARD	391	N/A	X	INSTRUCTION
HEWLETT PACKARD	98034A	N/A	Q	INSTRUCTION
HEWLETT PACKARD	98035A	N/A	Q	INSTRUCTION
HEWLETT PACKARD	98036A	N/A	E	INSTRUCTION
HEWLETT PACKARD	SYSTEM 35 ROM	N/A	Q	INSTRUCTION/MAINTENANCE
HEWLETT PACKARD	3478A	N/A	E	INSTRUCTION/SCHEMATIC
HEWLETT PACKARD	3478A	N/A	E	INSTRUCTION/SCHEMATIC
HEWLETT PACKARD	3478A	N/A	E	INSTRUCTION/SCHEMATIC
HEWLETT PACKARD	8330A	N/A	X	INSTRUCTION/SCHEMATIC
HEWLETT PACKARD	6433B	N/A	N/A	INSTRUCTIONS MANUAL
HEWLETT PACKARD	9835A	N/A	P	INTERFACING CONCEPTS
HEWLETT PACKARD	9000 SERIES 200	N/A	P	INTERFACING TECHNIQUES
HEWLETT PACKARD	BASIC 3.0	N/A	Q	INTERFACING TECHNIQUES
HEWLETT PACKARD	3456A	N/A	E	INTRODUCTORY USER'S GUIDE
HEWLETT PACKARD	BASIC 3.0	N/A	Q	LANGUAGE REF. (2)
HEWLETT PACKARD	9000 SERIES 200	N/A	P	LANGUAGE REFERENCE
HEWLETT PACKARD	9000 SERIES 300	N/A	P	LANGUAGE REFERENCE
HEWLETT PACKARD	5525B	N/A	O	LASER INTERFEROMETER
HEWLETT PACKARD	4192A	N/A	X	LF IMPEDANCE ANALYZER OPERATION & SERVICE MANUAL (LARGE BINDER)
HEWLETT PACKARD	202A	N/A	X	LOW FREQ. GEN.
HEWLETT PACKARD	6236B/6237B	N/A	N/A	M00821/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	6236B/6237B	N/A	N/A	M00822/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	6236B/6237B	N/A	N/A	M00823/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	6236B/6237B	N/A	X	M00824/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	6236B/6237B	N/A	N/A	M00825/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	6236B/6237B	N/A	N/A	M00826/TRIPLE OUTPUT POWER SUPPLY
HEWLETT PACKARD	7440A	N/A	E	M00858/PLOTTER
HEWLETT PACKARD	8552B	N/A	N/A	M00910/ANALYZER SPECTRUM
HEWLETT PACKARD	8553B	N/A	CALIBRATION GUIDE	M00911/ANALYZER SPECTRUM
HEWLETT PACKARD	8553B	N/A	OPERATION AND SERVICE	M00912/ANALYZER SPECTRUM
HEWLETT PACKARD	141T	N/A	K	M00913/DISPLAY SECTION
HEWLETT PACKARD	54700-SERIES	N/A	N/A	MAINFRAME AND PLUG-IN SERVICE GUIDES.
HEWLETT PACKARD	970A	N/A	Q	MAINTENANCE
HEWLETT PACKARD	9190A	N/A	X-Q	MAINTENANCE MANUAL
HEWLETT PACKARD	9190A	N/A	E	MAINTENANCE MANUAL UPDATE
HEWLETT PACKARD	700 OPTION	N/A	OPERATORS	MATE-CIL LANGUAGE OPTION FOR HP3457A
HEWLETT PACKARD	5300	N/A	F	MEASURING SYSTEM
HEWLETT PACKARD	5300B	N/A	F	MEASURING SYSTEM
HEWLETT PACKARD	3457A	N/A	E	OPERATING
HEWLETT PACKARD	3457A	N/A	E	OPERATING
HEWLETT PACKARD	3457A	N/A	E	OPERATING
HEWLETT PACKARD	6625A	N/A	N/A	OPERATING
HEWLETT PACKARD	6626A	N/A	N/A	OPERATING
HEWLETT PACKARD	6628A	N/A	N/A	OPERATING
HEWLETT PACKARD	6629A	N/A	OPERATORS	OPERATING
HEWLETT PACKARD	9835A	N/A	P	OPERATING & PROGRAMMING
HEWLETT PACKARD	214B	N/A	X	OPERATING & SERVICE
HEWLETT PACKARD	37204A/B	N/A	X	OPERATING & SERVICE
HEWLETT PACKARD	6205C	N/A	X	OPERATING & SERVICE
HEWLETT PACKARD	6212C 6214C	N/A	X	OPERATING & SERVICE
HEWLETT PACKARD	3470	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	6130	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	11049A/11050A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	11153A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	200CD	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	200CD	N/A	X	OPERATING AND SERVICE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	2470A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	2470A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3310A/B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3410A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3430A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3439A	N/A	N/A	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3440A	N/A	N/A	OPERATING AND SERVICE
HEWLETT PACKARD	3442A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3443A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3443A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3443A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3444A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3445A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3445A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3450A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3450B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3460A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3462A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3462A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3466A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3476B	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	3480 A/B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	3484A	N/A	N/A	OPERATING AND SERVICE
HEWLETT PACKARD	400E	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	400E	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	405AR	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	410C	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	412A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	412A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	419A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	425A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	4260A	N/A	N/A	OPERATING AND SERVICE
HEWLETT PACKARD	4328A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	4329A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	4329A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	4342A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	456A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	461B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	461B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	4800A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	4801A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	5005A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	5265A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	5265A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	5265A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	562A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6102A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	6102A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	6102A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6102A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6113A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	6113A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6114A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	6114A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6114A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6131C	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6177C/6181C	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6259B	N/A	OPERATING & SERVICE	OPERATING AND SERVICE
HEWLETT PACKARD	6290B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	651A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	651A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	651B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	651B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6525A	N/A	SERVICE	OPERATING AND SERVICE
HEWLETT PACKARD	6916A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	6940B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	740B	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	740B	N/A	N/A	OPERATING AND SERVICE
HEWLETT PACKARD	741A	N/A	Q	OPERATING AND SERVICE
HEWLETT PACKARD	8875A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	970A	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	DY-2401C	N/A	E	OPERATING AND SERVICE
HEWLETT PACKARD	DY-2410B	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	DY-2411A	N/A	X	OPERATING AND SERVICE
HEWLETT PACKARD	HP6030A	N/A	N/A	OPERATING AND SERVICE MANUAL
HEWLETT PACKARD	54118A	N/A	N/A	OPERATING AND SERVICES
HEWLETT PACKARD	1631 A/D	N/A	K	OPERATING MANUAL
HEWLETT PACKARD	3456A	N/A	E	OPERATING MANUAL
HEWLETT PACKARD	3457A	N/A	E	OPERATING MANUAL
HEWLETT PACKARD	3468A	N/A	E	OPERATING MANUAL
HEWLETT PACKARD	HP-35	N/A	SERVICE	OPERATING MANUAL
HEWLETT PACKARD	3497A	N/A	E	OPERATING/PROGRAMMING
HEWLETT PACKARD	3421	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	2401C	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	2402A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	3403C	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3421A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3437A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	3455A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3456A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3456A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3456A	N/A	E	OPERATING/SERVICE

**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	3456A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3456A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3457A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	3457A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	3467A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3468A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3480A/B	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3490A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	3495A	N/A	W	OPERATING/SERVICE
HEWLETT PACKARD	3497A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	5328A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	5517C	N/A	N/A	OPERATING/SERVICE
HEWLETT PACKARD	745A	N/A	E	OPERATING/SERVICE
HEWLETT PACKARD	746A	N/A	X	OPERATING/SERVICE
HEWLETT PACKARD	9876	N/A	Q	OPERATION
HEWLETT PACKARD	3455A	N/A	E	OPERATION
HEWLETT PACKARD	9876A	N/A	Q	OPERATION
HEWLETT PACKARD	59307A	N/A	N/A	OPERATION & MAINTENANCE
HEWLETT PACKARD	11722A	N/A	X	OPERATION & SERVICE
HEWLETT PACKARD	415E	N/A	OPERATION & SERVICE	OPERATION & SERVICE
HEWLETT PACKARD	5316B	N/A	F	OPERATION & SERVICE
HEWLETT PACKARD	6236B/6237B	N/A	X	OPERATION & SERVICE
HEWLETT PACKARD	6622A	N/A	N/A	OPERATION & SERVICE
HEWLETT PACKARD	8082A	N/A	X	OPERATION & SERVICE
HEWLETT PACKARD	8447 D/E/F	N/A	X	OPERATION & SERVICE
HEWLETT PACKARD	8902A OPT 050	N/A	E	OPERATION & SERVICE 4 VOLUMES
HEWLETT PACKARD	6235A	N/A	X	OPERATION & SERVICE MANUAL
HEWLETT PACKARD	E36XXA 30WPS	N/A	X	OPERATION AND CALIBRATION PROCESSING
HEWLETT PACKARD	11715A	N/A	X	OPERATION AND SERVICE
HEWLETT PACKARD	3320 A/B	N/A	X	OPERATION AND SERVICE
HEWLETT PACKARD	59313A	N/A	X	OPERATION AND SERVICE
HEWLETT PACKARD	6434B	N/A	OPERATION AND SERVICE	OPERATION AND SERVICE
HEWLETT PACKARD	6448A	N/A	E	OPERATION AND SERVICE
HEWLETT PACKARD	8554B	N/A	N/A	OPERATION AND SERVICE
HEWLETT PACKARD	E3611A	N/A	OPERATION/SERVICIE	OPERATION AND SERVICE
HEWLETT PACKARD	E36XXA	N/A	X	OPERATION AND SERVICE
HEWLETT PACKARD	3476B	N/A	E	OPERATION AND SERVICE MANUAL
HEWLETT PACKARD	3575A	N/A	K	OPERATION AND SERVICE MANUAL
HEWLETT PACKARD	5300A	N/A	N/A	OPERATION AND SERVICE MANUAL
HEWLETT PACKARD	6236B 6237B	N/A	N/A	OPERATION AND SERVICE MANUAL
HEWLETT PACKARD	8011A	N/A	X	OPERATION AND SERVICE MANUAL
HEWLETT PACKARD	54501A	N/A	N/A	OPERATION REFERENCE
HEWLETT PACKARD	8656B	N/A	N/A	OPERATION/CALIBRATION MANUAL
HEWLETT PACKARD	8657A	N/A	X	OPERATION/CALIBRATION MANUAL
HEWLETT PACKARD	8657B	N/A	X	OPERATION/CALIBRATION MANUAL
HEWLETT PACKARD	SYSTEM 35	N/A	P	OPERATION/PROGRAMMING
HEWLETT PACKARD	3455A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3456A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3465A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3465A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3467A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3467A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	3497A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	6459A	N/A	N/A	OPERATION/SERVICE
HEWLETT PACKARD	745A	N/A	E	OPERATION/SERVICE
HEWLETT PACKARD	745A	N/A	X	OPERATION/SERVICE
HEWLETT PACKARD	8012B	N/A	X	OPERATIONS & SERVICE MANUAL
HEWLETT PACKARD	8116A	N/A	X	OPERATIONS & SERVICE MANUAL
HEWLETT PACKARD	35660A	N/A	N/A	OPERATIONS MANUAL
HEWLETT PACKARD	1470A	N/A	N/A	OPERATOR
HEWLETT PACKARD	8620C	N/A	X	OPERATOR/SERVICE
HEWLETT PACKARD	86222B	N/A	X	OPERATOR/SERVICE
HEWLETT PACKARD	5334	N/A	N/A	OPERATORS
HEWLETT PACKARD	664XA & 665XA	N/A	X	OPERATORS
HEWLETT PACKARD	7440A	N/A	E	OPERATORS AND HARDWARE SUPPORT
HEWLETT PACKARD	8566B	N/A	USERS GUIDE	OPERATORS BOOK & 2 SERVICE
HEWLETT PACKARD	3314A	N/A	X	OPERATORS MANUAL
HEWLETT PACKARD	3478	N/A	E	OPERATOR'S MANUAL
HEWLETT PACKARD	3325A	N/A	X	OPERATOR'S MANUAL
HEWLETT PACKARD	3478A	N/A	E	OPERATOR'S MANUAL
HEWLETT PACKARD	3478A	N/A	E	OPERATOR'S MANUAL
HEWLETT PACKARD	3478A	N/A	X	OPERATOR'S MANUAL
HEWLETT PACKARD	35665A	N/A	N/A	OPERATORS REFERENCE
HEWLETT PACKARD	2686A	N/A	Q	OPERATOR'S REFERENCE MANUAL
HEWLETT PACKARD	3458A	N/A	E	OPERATORS/PROGRAMMING
HEWLETT PACKARD	54600A/54601A	N/A	N/A	OPERATORS/PROGRAMMING
HEWLETT PACKARD	2457A	N/A	K	OPERATORS/SERVICE
HEWLETT PACKARD	204B	N/A	N/A	OSCILLATOR
HEWLETT PACKARD	6916A	N/A	X-Q	OVER VOLTAGE PROTECTOR
HEWLETT PACKARD	9835A	N/A	P	OWNER'S MANUAL
HEWLETT PACKARD	SYSTEM 35	N/A	P	OWNER'S MANUAL
HEWLETT PACKARD	5306A	N/A	F	PART OF SERVICE MANUAL
HEWLETT PACKARD	E3631A	N/A	N/A	PARTIAL MANUAL CONTAINS SPECS AND CALIBRATION PROCEDURES
HEWLETT PACKARD	9000	N/A	E	PERIPHERAL INSTALLATION
HEWLETT PACKARD	9000	N/A	E	PERIPHERAL INSTALLATION
HEWLETT PACKARD	9000 SERIES 300	N/A	P	PERIPHERAL INSTALLATION
HEWLETT PACKARD	9000 SERIES 300	N/A	X	PERIPHERAL INSTALLATION
HEWLETT PACKARD	9835A	N/A	P	PLOTTER ROM PROGRAMMING
HEWLETT PACKARD	7590C/7590CR	N/A	N/A	PLOTTING SYSTEM
HEWLETT PACKARD	437B	N/A	N/A	POWER METER
HEWLETT PACKARD	6258A	N/A	X	POWER SUPPLY
HEWLETT PACKARD	59501A	N/A	X	POWER SUPPLY PROGRAMMER; HP-IB ISOLATED D/A
HEWLETT PACKARD	59501A	N/A	X	POWER SUPPLY PROGRAMMER; HP-IB ISOLATED D/A
HEWLETT PACKARD	82906A	N/A	G	PRINTER
HEWLETT PACKARD	2686A	N/A	Q	PRINTER SERVICE MANUAL
HEWLETT PACKARD	HP54504A	N/A	REF	PROGRAM
HEWLETT PACKARD	54600A 54601A	N/A	N/A	PROGRAMMER'S GUIDE AND USER'S MANUAL

**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	54710 54720	N/A	X	PROGRAMMER'S REFERENCE VOL. 1 AND 2.
HEWLETT PACKARD	9876A	N/A	F	PROGRAMMING
HEWLETT PACKARD	9876A	N/A	W	PROGRAMMING
HEWLETT PACKARD	3495A	N/A	E	PROGRAMMING AND SERVICE MANUAL
HEWLETT PACKARD	54503A	N/A	N/A	PROGRAMMING REF
HEWLETT PACKARD	35660A	N/A	N/A	PROGRAMMING REFERENCE
HEWLETT PACKARD	54501A	N/A	N/A	PROGRAMMING REFERENCE
HEWLETT PACKARD	9000 SERIES 200	N/A	P	PROGRAMMING TECHNIQUES
HEWLETT PACKARD	BASIC 3.0	N/A	Q	PROGRAMMING TECHNIQUES
HEWLETT PACKARD	3454A	N/A	E	QUICK REFERENCE GUIDE
HEWLETT PACKARD	35665A	N/A	N/A	QUICK START GUIDE
HEWLETT PACKARD	HP71029A	N/A	X	QUICK START GUIDE
HEWLETT PACKARD	98035A	N/A	E	REAL TIME CLOCK
HEWLETT PACKARD	HP54504A	N/A	N/A	REFERENCE
HEWLETT PACKARD	9835A	N/A	P	REFERENCE GUIDE
HEWLETT PACKARD	2225C	N/A	N/A	REFERENCE MANUAL
HEWLETT PACKARD	6256B	N/A	X	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6263B	N/A	X	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6264B	N/A	OPERATING & SERVICE	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6265B	N/A	OPERATING & SERVICE	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6266B	N/A	OPERATING & SERVICE	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6267B	N/A	X	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6271B	N/A	OPERATING & SERVICE	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	6274B	N/A	X	REGULATED DC POWER SUPPLY
HEWLETT PACKARD	98036A	N/A	X	RS232C
HEWLETT PACKARD	7127A/7128A	N/A	X	SAME MANUAL (MOD. # 7100B/7101B)
HEWLETT PACKARD	7718A/7719A	N/A	D	SAME MANUAL (MOD. 7716A/7717A)
HEWLETT PACKARD	120A/AR	N/A	K	SCOPE
HEWLETT PACKARD	122A/AR	N/A	W	SCOPE
HEWLETT PACKARD	130C	N/A	X	SCOPE
HEWLETT PACKARD	141A	N/A	K	SCOPE
HEWLETT PACKARD	1740A	N/A	K	SERVICE
HEWLETT PACKARD	34401A	N/A	E	SERVICE
HEWLETT PACKARD	3457A	N/A	E	SERVICE
HEWLETT PACKARD	3457A	N/A	X	SERVICE
HEWLETT PACKARD	3468A/B	N/A	N/A	SERVICE
HEWLETT PACKARD	3478A	N/A	E	SERVICE
HEWLETT PACKARD	5334B	N/A	F	SERVICE
HEWLETT PACKARD	5361B	N/A	F	SERVICE
HEWLETT PACKARD	54503A	N/A	N/A	SERVICE
HEWLETT PACKARD	54520 & 54540 SERIES	N/A	N/A	SERVICE
HEWLETT PACKARD	5526A	N/A	X	SERVICE
HEWLETT PACKARD	6443B	N/A	X	SERVICE
HEWLETT PACKARD	6621A/2A/3A/4A/7A	N/A	N/A	SERVICE
HEWLETT PACKARD	6625A	N/A	N/A	SERVICE
HEWLETT PACKARD	6626A	N/A	N/A	SERVICE
HEWLETT PACKARD	6628A	N/A	N/A	SERVICE
HEWLETT PACKARD	6629A	N/A	SERVICE	SERVICE
HEWLETT PACKARD	665XA	N/A	X	SERVICE
HEWLETT PACKARD	70100A	N/A	N/A	SERVICE
HEWLETT PACKARD	7440A	N/A	E	SERVICE
HEWLETT PACKARD	9876A	N/A	E	SERVICE
HEWLETT PACKARD	HP54504A	N/A	X	SERVICE
HEWLETT PACKARD	8560E	N/A	N/A	SERVICE GUIDE
HEWLETT PACKARD	85644A/85645A	N/A	X	SERVICE GUIDE
HEWLETT PACKARD	3478	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	3478	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	3478	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	3478	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	3478	N/A	X	SERVICE MANUAL
HEWLETT PACKARD	33120A	N/A	N/A	SERVICE MANUAL
HEWLETT PACKARD	3314A	N/A	N/A	SERVICE MANUAL
HEWLETT PACKARD	3457A	N/A	N/A	SERVICE MANUAL
HEWLETT PACKARD	3468A	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	3488A	N/A	X	SERVICE MANUAL
HEWLETT PACKARD	DESKJET C2106	N/A	E	SERVICE MANUAL
HEWLETT PACKARD	HP8752A/B	N/A	Q	SERVICE MANUAL
HEWLETT PACKARD	8752A	N/A	X	SERVICE MANUAL FOR 8752A NETWORK ANALYZER
HEWLETT PACKARD	8566B	N/A	X	SERVICE MANUALS VOL #1 & #2
HEWLETT PACKARD	6525A	N/A	N/A	SERVICE NOTE
HEWLETT PACKARD	6253A	N/A	X	SERVICE TOP
HEWLETT PACKARD	3562A SIGNAL ANALYZER	N/A	N/A	SERVICE VOL1
HEWLETT PACKARD	3562A SIGNAL ANALYZER	N/A	N/A	SERVICE VOL2
HEWLETT PACKARD	9000 SERIES 200	N/A	P	SHARED RESOURCE MANAGEMENT
HEWLETT PACKARD	8614A/8616A	N/A	N/A	SIG. GEN.
HEWLETT PACKARD	3305	N/A	X	SWEEP PLUG-IN
HEWLETT PACKARD	9835A	N/A	X	SYSTEM EXERCISER
HEWLETT PACKARD	5525B	N/A	X	SYSTEM MANUAL
HEWLETT PACKARD	740A	N/A	E	TECHNICAL DATA
HEWLETT PACKARD	N/A	N/A	F	TECHNICAL REFERENCE MANUAL
HEWLETT PACKARD	650A	N/A	X	TEST OSC.
HEWLETT PACKARD	9835A	N/A	P	THE WORK BOOK
HEWLETT PACKARD	5262A	N/A	X	TIME INTERVAL UNIT
HEWLETT PACKARD	9825/9835	N/A	X	TRANSLATION
HEWLETT PACKARD	9000 SERIES 300	N/A	X	USER GUIDE
HEWLETT PACKARD	8590 D AND SERIES E	N/A	N/A	USERS GUIDE
HEWLETT PACKARD	HP7000 SERIES	N/A	N/A	USERS GUIDE
HEWLETT PACKARD	9000 SERIES 200	N/A	P	USER'S GUIDE
HEWLETT PACKARD	9190A	N/A	E	USER'S GUIDE
HEWLETT PACKARD	BASIC 3.0	N/A	Q	USER'S GUIDE
HEWLETT PACKARD	7550B	N/A	X	USERS GUIDE & COMPUTER INFO
HEWLETT PACKARD	33447A	N/A	X	USER'S MANUAL REF. CARD. SOFT. APPLICATIONS
HEWLETT PACKARD	54710A 54710D 54720A 54720D	N/A	X	USERS REFERENCE FOR THE 54700 SERIES AND 54721A. INCLUDES QUICK START GUIDE AND 54701A USER/SERVICE GUIDE.
HEWLETT PACKARD	9000 SERIES 200	N/A	P	UTILITIES LIBRARY
HEWLETT PACKARD	9000 SERIES 300	N/A	P	UTILITIES LIBRARY

**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	BASIC 3.0	N/A	Q	UTILITIES LIBRARY
HEWLETT PACKARD	608D	N/A	X	VHF SIG. GEN.
HEWLETT PACKARD	2211A/B	N/A	X	VOLT-FREQ. CONVERTER
HEWLETT PACKARD	2401C	N/A	X	VOLTMETER
HEWLETT PACKARD	400D	N/A	E	VOLTMETER
HEWLETT PACKARD	400E/EL	N/A	X	VOLTMETER
HEWLETT PACKARD	427A	N/A	X	VOLTMETER
HEWLETT PACKARD	461A/462A	N/A	E	WIDEBAND AMP.
HEWLETT PACKARD	7245A	N/A	X	X-Y PLOTTER
HEWLETT PACKARD	7015B	N/A	X	X-Y RECORDER
HEWLETT PACKARD	7045A	N/A	X	X-Y RECORDER
HEWLETT PACKARD	7046A	N/A	N/A	X-Y RECORDER
HEWLETT PACKARD	48	N/A	F	N/A
HEWLETT PACKARD	130	N/A	K	N/A
HEWLETT PACKARD	130	N/A	X	N/A
HEWLETT PACKARD	135	N/A	W	N/A
HEWLETT PACKARD	136	N/A	K	N/A
HEWLETT PACKARD	302	N/A	X	N/A
HEWLETT PACKARD	321	N/A	X	N/A
HEWLETT PACKARD	401	N/A	X	N/A
HEWLETT PACKARD	505	N/A	X	N/A
HEWLETT PACKARD	1300	N/A	K	N/A
HEWLETT PACKARD	1615	N/A	X	N/A
HEWLETT PACKARD	1741	N/A	K	N/A
HEWLETT PACKARD	1751	N/A	K	N/A
HEWLETT PACKARD	2526	N/A	X	N/A
HEWLETT PACKARD	2539	N/A	J	N/A
HEWLETT PACKARD	2686	N/A	Q	N/A
HEWLETT PACKARD	3414	N/A	E	N/A
HEWLETT PACKARD	3455	N/A	X	N/A
HEWLETT PACKARD	3488	N/A	E	N/A
HEWLETT PACKARD	3495	N/A	X	N/A
HEWLETT PACKARD	3575	N/A	X	N/A
HEWLETT PACKARD	3582	N/A	X	N/A
HEWLETT PACKARD	3582	N/A	X	N/A
HEWLETT PACKARD	3900	N/A	U	N/A
HEWLETT PACKARD	4801	N/A	X	N/A
HEWLETT PACKARD	4815	N/A	X	N/A
HEWLETT PACKARD	5207	N/A	F	N/A
HEWLETT PACKARD	5285	N/A	X	N/A
HEWLETT PACKARD	6200	N/A	X	N/A
HEWLETT PACKARD	6259	N/A	E	N/A
HEWLETT PACKARD	6268	N/A	X	N/A
HEWLETT PACKARD	6269	N/A	OPERATING & SERVICE	N/A
HEWLETT PACKARD	6274	N/A	X	N/A
HEWLETT PACKARD	6284	N/A	X	N/A
HEWLETT PACKARD	6286	N/A	X	N/A
HEWLETT PACKARD	6289	N/A	E	N/A
HEWLETT PACKARD	6299	N/A	OPERATION AND SERVICE	N/A
HEWLETT PACKARD	6450	N/A	OPER/SERV	N/A
HEWLETT PACKARD	6515	N/A	E	N/A
HEWLETT PACKARD	6522	N/A	E	N/A
HEWLETT PACKARD	6525	N/A	E	N/A
HEWLETT PACKARD	6916	N/A	X	N/A
HEWLETT PACKARD	6933	N/A	X	N/A
HEWLETT PACKARD	7225	N/A	X	N/A
HEWLETT PACKARD	7470	N/A	X	N/A
HEWLETT PACKARD	7475	N/A	Q	N/A
HEWLETT PACKARD	7550	N/A	X	N/A
HEWLETT PACKARD	7561	N/A	Q	N/A
HEWLETT PACKARD	8002	N/A	X	N/A
HEWLETT PACKARD	8055	N/A	X	N/A
HEWLETT PACKARD	8403	N/A	X	N/A
HEWLETT PACKARD	8447	N/A	X	N/A
HEWLETT PACKARD	8471	N/A	X	N/A
HEWLETT PACKARD	8551	N/A	X	N/A
HEWLETT PACKARD	8660	N/A	X	N/A
HEWLETT PACKARD	8708	N/A	X	N/A
HEWLETT PACKARD	8801	N/A	X	N/A
HEWLETT PACKARD	8802	N/A	X	N/A
HEWLETT PACKARD	8803	N/A	X	N/A
HEWLETT PACKARD	9100	N/A	X	N/A
HEWLETT PACKARD	9101	N/A	X	N/A
HEWLETT PACKARD	9102	N/A	X	N/A
HEWLETT PACKARD	9107	N/A	X	N/A
HEWLETT PACKARD	9120	N/A	X-Q	N/A
HEWLETT PACKARD	9830	N/A	X	N/A
HEWLETT PACKARD	9861	N/A	X	N/A
HEWLETT PACKARD	9865	N/A	X	N/A
HEWLETT PACKARD	9866	N/A	X	N/A
HEWLETT PACKARD	9869	N/A	X	N/A
HEWLETT PACKARD	9872	N/A	E	N/A
HEWLETT PACKARD	10407	N/A	X	N/A
HEWLETT PACKARD	10811	N/A	X	N/A
HEWLETT PACKARD	11047	N/A	X	N/A
HEWLETT PACKARD	11606	N/A	X	N/A
HEWLETT PACKARD	11655	N/A	X	N/A
HEWLETT PACKARD	11850	N/A	X	N/A
HEWLETT PACKARD	37203	N/A	X	N/A
HEWLETT PACKARD	59303	N/A	X	N/A
HEWLETT PACKARD	59303	N/A	X	N/A
HEWLETT PACKARD	59306	N/A	X	N/A
HEWLETT PACKARD	59309	N/A	X	N/A
HEWLETT PACKARD	59401	N/A	X	N/A
HEWLETT PACKARD	59405	N/A	OPER/SERV	N/A
HEWLETT PACKARD	61296	N/A	E	N/A
HEWLETT PACKARD	98034	N/A	E	N/A

## Exhibit D GFE Manuals

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	100B	N/A	X	N/A
HEWLETT PACKARD	100E	N/A	K	N/A
HEWLETT PACKARD	10525T	N/A	X	N/A
HEWLETT PACKARD	10811A/B	N/A	E	N/A
HEWLETT PACKARD	10811A/B	N/A	X	N/A
HEWLETT PACKARD	1111A	N/A	X	N/A
HEWLETT PACKARD	1120A	N/A	X	N/A
HEWLETT PACKARD	1166/B	N/A	OPERATION AND SERVICE	N/A
HEWLETT PACKARD	1200A/B	N/A	N/A	N/A
HEWLETT PACKARD	1202A/B	N/A	K	N/A
HEWLETT PACKARD	120A/AR	N/A	X	N/A
HEWLETT PACKARD	120B	N/A	K	N/A
HEWLETT PACKARD	130B/BR	N/A	K	N/A
HEWLETT PACKARD	130C	N/A	K	N/A
HEWLETT PACKARD	1310 1311A	N/A	X	N/A
HEWLETT PACKARD	132A	N/A	K	N/A
HEWLETT PACKARD	136/136A	N/A	K	N/A
HEWLETT PACKARD	1400A	N/A	K	N/A
HEWLETT PACKARD	1400B	N/A	K	N/A
HEWLETT PACKARD	1401A	N/A	K	N/A
HEWLETT PACKARD	1402A	N/A	K	N/A
HEWLETT PACKARD	1405A	N/A	K	N/A
HEWLETT PACKARD	1408A	N/A	K	N/A
HEWLETT PACKARD	1420A	N/A	K	N/A
HEWLETT PACKARD	1421A	N/A	K	N/A
HEWLETT PACKARD	1422A	N/A	OPERATOR	N/A
HEWLETT PACKARD	143A	N/A	X	N/A
HEWLETT PACKARD	15118 19	N/A	X	N/A
HEWLETT PACKARD	1600A	N/A	X	N/A
HEWLETT PACKARD	1650A/51A	N/A	SERVICE	N/A
HEWLETT PACKARD	1707B	N/A	K	N/A
HEWLETT PACKARD	1752A/B	N/A	K	N/A
HEWLETT PACKARD	1754A	N/A	K	N/A
HEWLETT PACKARD	1755A	N/A	K	N/A
HEWLETT PACKARD	175A	N/A	K	N/A
HEWLETT PACKARD	1780A	N/A	K	N/A
HEWLETT PACKARD	1781B	N/A	X	N/A
HEWLETT PACKARD	1782A	N/A	K	N/A
HEWLETT PACKARD	1784A	N/A	K	N/A
HEWLETT PACKARD	1801A	N/A	K	N/A
HEWLETT PACKARD	1804A	N/A	K	N/A
HEWLETT PACKARD	1805A	N/A	K	N/A
HEWLETT PACKARD	180A/AR	N/A	K	N/A
HEWLETT PACKARD	181A/AR	N/A	K	N/A
HEWLETT PACKARD	1821A	N/A	K	N/A
HEWLETT PACKARD	1825A	N/A	K	N/A
HEWLETT PACKARD	182C	N/A	K	N/A
HEWLETT PACKARD	1830A	N/A	K	N/A
HEWLETT PACKARD	1830A	N/A	K	N/A
HEWLETT PACKARD	183A/B	N/A	F	N/A
HEWLETT PACKARD	183A/B	N/A	K	N/A
HEWLETT PACKARD	1840A	N/A	K	N/A
HEWLETT PACKARD	1840A	N/A	V	N/A
HEWLETT PACKARD	1841A	N/A	X	N/A
HEWLETT PACKARD	196A/B	N/A	X	N/A
HEWLETT PACKARD	200 SERIES	N/A	X	N/A
HEWLETT PACKARD	200AB	N/A	E	N/A
HEWLETT PACKARD	200C/200D	N/A	E	N/A
HEWLETT PACKARD	200CD/CDR	N/A	X	N/A
HEWLETT PACKARD	200J	N/A	X	N/A
HEWLETT PACKARD	200S	N/A	X	N/A
HEWLETT PACKARD	200T	N/A	X	N/A
HEWLETT PACKARD	201C	N/A	X	N/A
HEWLETT PACKARD	202A	N/A	X	N/A
HEWLETT PACKARD	202B	N/A	X	N/A
HEWLETT PACKARD	202C	N/A	X	N/A
HEWLETT PACKARD	202D	N/A	X	N/A
HEWLETT PACKARD	202H	N/A	X	N/A
HEWLETT PACKARD	203A	N/A	X	N/A
HEWLETT PACKARD	204B	N/A	X	N/A
HEWLETT PACKARD	205A/205AG	N/A	X	N/A
HEWLETT PACKARD	208A	N/A	X	N/A
HEWLETT PACKARD	209A	N/A	X	N/A
HEWLETT PACKARD	210A	N/A	X	N/A
HEWLETT PACKARD	211A	N/A	X	N/A
HEWLETT PACKARD	214A	N/A	X	N/A
HEWLETT PACKARD	215A	N/A	X	N/A
HEWLETT PACKARD	216A	N/A	X	N/A
HEWLETT PACKARD	218A	N/A	X	N/A
HEWLETT PACKARD	2200A	N/A	X	N/A
HEWLETT PACKARD	221A	N/A	E	N/A
HEWLETT PACKARD	241A	N/A	K	N/A
HEWLETT PACKARD	2460A	N/A	E	N/A
HEWLETT PACKARD	2460A 2461A	N/A	E	N/A
HEWLETT PACKARD	250B	N/A	X	N/A
HEWLETT PACKARD	2514A	N/A	X	N/A
HEWLETT PACKARD	2560A	N/A	Q	N/A
HEWLETT PACKARD	2590A	N/A	Q	N/A
HEWLETT PACKARD	2601A	N/A	Q	N/A
HEWLETT PACKARD	2630B	N/A	Q	N/A
HEWLETT PACKARD	2631B	N/A	Z	N/A
HEWLETT PACKARD	2686A/D	N/A	X	N/A
HEWLETT PACKARD	2737A/B	N/A	W	N/A
HEWLETT PACKARD	2901A 2902B	N/A	W	N/A
HEWLETT PACKARD	297A	N/A	X	N/A
HEWLETT PACKARD	2FA/2FM	N/A	E	N/A
HEWLETT PACKARD	300A	N/A	X	N/A



**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	302A	N/A	X	N/A
HEWLETT PACKARD	310A	N/A	X	N/A
HEWLETT PACKARD	310A	N/A	X	N/A
HEWLETT PACKARD	312A	N/A	X	N/A
HEWLETT PACKARD	3300A	N/A	X	N/A
HEWLETT PACKARD	3304A	N/A	E	N/A
HEWLETT PACKARD	3310A/B	N/A	X	N/A
HEWLETT PACKARD	3325A&B	N/A	X	N/A
HEWLETT PACKARD	3325B	N/A	X	N/A
HEWLETT PACKARD	3326A	N/A	F	N/A
HEWLETT PACKARD	333 334A	N/A	X	N/A
HEWLETT PACKARD	3334A	N/A	X	N/A
HEWLETT PACKARD	3335A	N/A	Q	N/A
HEWLETT PACKARD	333A/B	N/A	X	N/A
HEWLETT PACKARD	3370B	N/A	X	N/A
HEWLETT PACKARD	3390A	N/A	X	N/A
HEWLETT PACKARD	339A	N/A	E	N/A
HEWLETT PACKARD	3400A	N/A	X	N/A
HEWLETT PACKARD	3406A	N/A	X	N/A
HEWLETT PACKARD	3414A	N/A	E	N/A
HEWLETT PACKARD	3439A	N/A	E	N/A
HEWLETT PACKARD	3440A	N/A	E	N/A
HEWLETT PACKARD	3443A	N/A	E	N/A
HEWLETT PACKARD	3444A	N/A	X	N/A
HEWLETT PACKARD	3445A	N/A	E	N/A
HEWLETT PACKARD	3459A	N/A	X	N/A
HEWLETT PACKARD	3460A	N/A	E	N/A
HEWLETT PACKARD	3478A	N/A	E	N/A
HEWLETT PACKARD	3480A/B	N/A	X	N/A
HEWLETT PACKARD	3495A	N/A	E	N/A
HEWLETT PACKARD	350-1300B&2	N/A	X	N/A
HEWLETT PACKARD	350-200B	N/A	X	N/A
HEWLETT PACKARD	350C/D	N/A	X	N/A
HEWLETT PACKARD	355 C/D	N/A	OPERATORS	N/A
HEWLETT PACKARD	3580A	N/A	X	N/A
HEWLETT PACKARD	3590A	N/A	X	N/A
HEWLETT PACKARD	3722A	N/A	E	N/A
HEWLETT PACKARD	3722A	N/A	X	N/A
HEWLETT PACKARD	3964A	N/A	X	N/A
HEWLETT PACKARD	400 D/H/L	N/A	X	N/A
HEWLETT PACKARD	400 F/FL	N/A	X	N/A
HEWLETT PACKARD	400C	N/A	E	N/A
HEWLETT PACKARD	400E/EL	N/A	X	N/A
HEWLETT PACKARD	400F/FL	N/A	X	N/A
HEWLETT PACKARD	401E/EL	N/A	E	N/A
HEWLETT PACKARD	403B B-DB	N/A	X	N/A
HEWLETT PACKARD	410A	N/A	E	N/A
HEWLETT PACKARD	410B	N/A	X	N/A
HEWLETT PACKARD	411A	N/A	E	N/A
HEWLETT PACKARD	412A	N/A	X	N/A
HEWLETT PACKARD	415B	N/A	X	N/A
HEWLETT PACKARD	415C	N/A	N/A	N/A
HEWLETT PACKARD	415D	N/A	X	N/A
HEWLETT PACKARD	416 A/AR	N/A	E	N/A
HEWLETT PACKARD	4204A	N/A	X	N/A
HEWLETT PACKARD	425A	N/A	OPERATION	N/A
HEWLETT PACKARD	427A	N/A	X	N/A
HEWLETT PACKARD	428A	N/A	X	N/A
HEWLETT PACKARD	428B	N/A	X	N/A
HEWLETT PACKARD	430C	N/A	X	N/A
HEWLETT PACKARD	431B	N/A	E	N/A
HEWLETT PACKARD	431C	N/A	X	N/A
HEWLETT PACKARD	4329A	N/A	X	N/A
HEWLETT PACKARD	4332A	N/A	E	N/A
HEWLETT PACKARD	4332A	N/A	X	N/A
HEWLETT PACKARD	434A	N/A	X	N/A
HEWLETT PACKARD	436A	N/A	SERVICE MANUAL	N/A
HEWLETT PACKARD	436A	N/A	X	N/A
HEWLETT PACKARD	450A	N/A	X	N/A
HEWLETT PACKARD	456A	N/A	X	N/A
HEWLETT PACKARD	457A	N/A	X	N/A
HEWLETT PACKARD	461A/462A	N/A	E	N/A
HEWLETT PACKARD	467A	N/A	E	N/A
HEWLETT PACKARD	467A	N/A	X	N/A
HEWLETT PACKARD	478A	N/A	X	N/A
HEWLETT PACKARD	489A/491C	N/A	X	N/A
HEWLETT PACKARD	493A/495A	N/A	E	N/A
HEWLETT PACKARD	5004A	N/A	X	N/A
HEWLETT PACKARD	500A	N/A	X	N/A
HEWLETT PACKARD	500B/C	N/A	X	N/A
HEWLETT PACKARD	5050B	N/A	X	N/A
HEWLETT PACKARD	5055A/B	N/A	Q	N/A
HEWLETT PACKARD	50B	N/A	X	N/A
HEWLETT PACKARD	5150A	N/A	X	N/A
HEWLETT PACKARD	5175E	N/A	F	N/A
HEWLETT PACKARD	5212 5212A	N/A	F	N/A
HEWLETT PACKARD	5214L	N/A	X	N/A
HEWLETT PACKARD	5216A	N/A	F	N/A
HEWLETT PACKARD	521A/C/D/E/G	N/A	F	N/A
HEWLETT PACKARD	5221 531B	N/A	X	N/A
HEWLETT PACKARD	5223L	N/A	F	N/A
HEWLETT PACKARD	522B	N/A	F	N/A
HEWLETT PACKARD	5232A	N/A	X	N/A
HEWLETT PACKARD	5233L	N/A	F	N/A
HEWLETT PACKARD	523C/D	N/A	F	N/A
HEWLETT PACKARD	5245L	N/A	X	N/A
HEWLETT PACKARD	524B	N/A	F	N/A

**Exhibit D  
GFE Manuals**

MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	5252A	N/A	F	N/A
HEWLETT PACKARD	5253B	N/A	F	N/A
HEWLETT PACKARD	5254A	N/A	F	N/A
HEWLETT PACKARD	5254B	N/A	F	N/A
HEWLETT PACKARD	5255A	N/A	X	N/A
HEWLETT PACKARD	5258A	N/A	X	N/A
HEWLETT PACKARD	525A&B	N/A	F	N/A
HEWLETT PACKARD	525C	N/A	X	N/A
HEWLETT PACKARD	5262A	N/A	X	N/A
HEWLETT PACKARD	5264A	N/A	E	N/A
HEWLETT PACKARD	5265A	N/A	E	N/A
HEWLETT PACKARD	5268A	N/A	X	N/A
HEWLETT PACKARD	526B	N/A	X	N/A
HEWLETT PACKARD	526C	N/A	X	N/A
HEWLETT PACKARD	5280A	N/A	X	N/A
HEWLETT PACKARD	5302A	N/A	F	N/A
HEWLETT PACKARD	5315A/B	N/A	F	N/A
HEWLETT PACKARD	5316A	N/A	F	N/A
HEWLETT PACKARD	5316A	N/A	X	N/A
HEWLETT PACKARD	5325B	N/A	F	N/A
HEWLETT PACKARD	5326B 5327B	N/A	F	N/A
HEWLETT PACKARD	5327A	N/A	X	N/A
HEWLETT PACKARD	5328A	N/A	E	N/A
HEWLETT PACKARD	5345A	N/A	N/A	N/A
HEWLETT PACKARD	5360A	N/A	SERVICE	N/A
HEWLETT PACKARD	5379A	N/A	F	N/A
HEWLETT PACKARD	5381A	N/A	F	N/A
HEWLETT PACKARD	5382A	N/A	X	N/A
HEWLETT PACKARD	5386A	N/A	X	N/A
HEWLETT PACKARD	5501A	N/A	N/A	N/A
HEWLETT PACKARD	55308A	N/A	X	N/A
HEWLETT PACKARD	5580A/B	N/A	X	N/A
HEWLETT PACKARD	560A	N/A	X	N/A
HEWLETT PACKARD	561A	N/A	X	N/A
HEWLETT PACKARD	561B	N/A	E	N/A
HEWLETT PACKARD	562A	N/A	X	N/A
HEWLETT PACKARD	565A	N/A	X	N/A
HEWLETT PACKARD	580A/581A	N/A	X	N/A
HEWLETT PACKARD	59401A	N/A	OPER/SERV	N/A
HEWLETT PACKARD	6002A	N/A	X	N/A
HEWLETT PACKARD	606A	N/A	X	N/A
HEWLETT PACKARD	608A	N/A	X	N/A
HEWLETT PACKARD	608D	N/A	X	N/A
HEWLETT PACKARD	60B/60D/60DM	N/A	E	N/A
HEWLETT PACKARD	6102A	N/A	E	N/A
HEWLETT PACKARD	6110A	N/A	E	N/A
HEWLETT PACKARD	6113A	N/A	E	N/A
HEWLETT PACKARD	6117C 6181C	N/A	X	N/A
HEWLETT PACKARD	612A	N/A	X-Q	N/A
HEWLETT PACKARD	614A	N/A	E	N/A
HEWLETT PACKARD	616B	N/A	X	N/A
HEWLETT PACKARD	618A/B	N/A	X	N/A
HEWLETT PACKARD	62003 48	N/A	X	N/A
HEWLETT PACKARD	6201B	N/A	X	N/A
HEWLETT PACKARD	6202B	N/A	X	N/A
HEWLETT PACKARD	6204B	N/A	X	N/A
HEWLETT PACKARD	6205B&C	N/A	X	N/A
HEWLETT PACKARD	6209B	N/A	N/A	N/A
HEWLETT PACKARD	620A	N/A	X	N/A
HEWLETT PACKARD	6216A	N/A	X	N/A
HEWLETT PACKARD	6217A	N/A	X	N/A
HEWLETT PACKARD	6217A	N/A	X	N/A
HEWLETT PACKARD	6218A	N/A	X	N/A
HEWLETT PACKARD	6225A	N/A	X	N/A
HEWLETT PACKARD	6226A	N/A	X	N/A
HEWLETT PACKARD	6228B	N/A	X	N/A
HEWLETT PACKARD	6235A	N/A	X	N/A
HEWLETT PACKARD	6253A	N/A	X	N/A
HEWLETT PACKARD	6255A	N/A	OPERATING & SERVICE	N/A
HEWLETT PACKARD	6255A	N/A	X	N/A
HEWLETT PACKARD	6258A	N/A	X	N/A
HEWLETT PACKARD	6259 60 61 68 69	N/A	OPERATING & SERVICE	N/A
HEWLETT PACKARD	6265A	N/A	X	N/A
HEWLETT PACKARD	6266A	N/A	X	N/A
HEWLETT PACKARD	6267 56 63 64	N/A	X	N/A
HEWLETT PACKARD	626A	N/A	X	N/A
HEWLETT PACKARD	628A	N/A	X	N/A
HEWLETT PACKARD	6294A	N/A	X	N/A
HEWLETT PACKARD	650A	N/A	E	N/A
HEWLETT PACKARD	651A&B	N/A	E	N/A
HEWLETT PACKARD	675A	N/A	X	N/A
HEWLETT PACKARD	680 & 683	N/A	X	N/A
HEWLETT PACKARD	683C	N/A	E	N/A
HEWLETT PACKARD	695 6 7/A	N/A	PROGRAMMING	N/A
HEWLETT PACKARD	70100A	N/A	X	N/A
HEWLETT PACKARD	7030A/7030AR	N/A	X	N/A
HEWLETT PACKARD	7034A	N/A	X	N/A
HEWLETT PACKARD	7034A	N/A	X	N/A
HEWLETT PACKARD	711A	N/A	X	N/A
HEWLETT PACKARD	712A	N/A	X	N/A
HEWLETT PACKARD	716A	N/A	X	N/A
HEWLETT PACKARD	721A	N/A	X	N/A
HEWLETT PACKARD	7221BS	N/A	Q	N/A
HEWLETT PACKARD	7225B	N/A	X	N/A
HEWLETT PACKARD	723A	N/A	Q	N/A
HEWLETT PACKARD	7245A	N/A	X	N/A
HEWLETT PACKARD	726AR	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HEWLETT PACKARD	738AR	N/A	X	N/A
HEWLETT PACKARD	738BR	N/A	E	N/A
HEWLETT PACKARD	739AR	N/A	E	N/A
HEWLETT PACKARD	7475A	N/A	N/A	N/A
HEWLETT PACKARD	7575ADXL	N/A	X	N/A
HEWLETT PACKARD	7706 08	N/A	X	N/A
HEWLETT PACKARD	7740 7750	N/A	D	N/A
HEWLETT PACKARD	7DCDT/24DCDT	N/A	X	N/A
HEWLETT PACKARD	8004A	N/A	X	N/A
HEWLETT PACKARD	808A	N/A	X	N/A
HEWLETT PACKARD	809B	N/A	X	N/A
HEWLETT PACKARD	8112A	N/A	X-K	N/A
HEWLETT PACKARD	8116A	N/A	X	N/A
HEWLETT PACKARD	8116A	N/A	X	N/A
HEWLETT PACKARD	812C	N/A	X	N/A
HEWLETT PACKARD	8161A	N/A	Q	N/A
HEWLETT PACKARD	82906A	N/A	J	N/A
HEWLETT PACKARD	8349B	N/A	X	N/A
HEWLETT PACKARD	8400C	N/A	X	N/A
HEWLETT PACKARD	8405A	N/A	X	N/A
HEWLETT PACKARD	8426D	N/A	X	N/A
HEWLETT PACKARD	8428B	N/A	X	N/A
HEWLETT PACKARD	8640B	N/A	X	N/A
HEWLETT PACKARD	86603A	N/A	X	N/A
HEWLETT PACKARD	8660A	N/A	X	N/A
HEWLETT PACKARD	8660A	N/A	X	N/A
HEWLETT PACKARD	86632B	N/A	X	N/A
HEWLETT PACKARD	8673B	N/A	X	N/A
HEWLETT PACKARD	8690B	N/A	NETWORK SERVICE	N/A
HEWLETT PACKARD	881A	N/A	E	N/A
HEWLETT PACKARD	9100A&B	N/A	X	N/A
HEWLETT PACKARD	9125A	N/A	X-Q	N/A
HEWLETT PACKARD	9153/54 A/B	N/A	X-Q	N/A
HEWLETT PACKARD	98034A	N/A	E	N/A
HEWLETT PACKARD	9830A	N/A	P	N/A
HEWLETT PACKARD	9830A	N/A	P	N/A
HEWLETT PACKARD	9872C/T	N/A	Q	N/A
HEWLETT PACKARD	AC-4	N/A	Q	N/A
HEWLETT PACKARD	AC97C	N/A	Q	N/A
HEWLETT PACKARD	DY 2410B	N/A	E	N/A
HEWLETT PACKARD	DY2010E	N/A	OPERATION AND SERVICE	N/A
HEWLETT PACKARD	DY2010E	N/A	X	N/A
HEWLETT PACKARD	DY6604	N/A	N/A	N/A
HEWLETT PACKARD	HARRISON LABS	N/A	E	N/A
HEWLETT PACKARD	HP PWR.SUP.CAT.	N/A	PROGRAM	N/A
HEWLETT PACKARD	LASER JET II	N/A	P	N/A
HEWLETT PACKARD	THINKJET	N/A	SERVICE GUIDE	N/A
HEWLETT PACKARD CO.	34420A	N/A	N/A	NANO VOLT/MICRO OHM METER
HEWLETT PACKARD CO.	34420A	N/A	N/A	NANO VOLT/MICRO OHM METER
HEWLETT-PACKARD	8560E	N/A	N/A	CALIBRATION GUIDE
HEWLETT-PACKARD	8904A	N/A	N/A	CALIBRATION MANUAL
HEWLETT-PACKARD	L1250	N/A	N/A	INSTRUCTIONS
HEWLETT-PACKARD	L600	N/A	N/A	INSTRUCTIONS
HEWLETT-PACKARD	L900	N/A	N/A	INSTRUCTIONS
HEWLETT-PACKARD	3560A	N/A	N/A	OPERATING & SERVICE GUIDE
HEWLETT-PACKARD	85620A	N/A	N/A	OPERATION SERVICE PROGRAMMING MANUAL
HEWLETT-PACKARD	16451B	N/A	N/A	OPERATION & SERVICE MANUAL
HEWLETT-PACKARD	35670A	N/A	N/A	OPERATORS MANUAL
HEWLETT-PACKARD	8770A	N/A	N/A	OPERATORS MANUAL
HEWLETT-PACKARD	8560E	N/A	N/A	PROGRAM MANUAL
HEWLETT-PACKARD	35670A	N/A	N/A	PROGRAMMERS MANUAL
HEWLETT-PACKARD	16500A/16501A	N/A	N/A	SERVICE
HEWLETT-PACKARD	16510B	N/A	N/A	SERVICE
HEWLETT-PACKARD	16515A	N/A	N/A	SERVICE
HEWLETT-PACKARD	16530A/16531A	N/A	N/A	SERVICE
HEWLETT-PACKARD	16532A	N/A	N/A	SERVICE
HEWLETT-PACKARD	546001A	N/A	N/A	SERVICE
HEWLETT-PACKARD	54600A	N/A	N/A	SERVICE
HEWLETT-PACKARD	33471	N/A	N/A	SERVICE MANUAL
HEWLETT-PACKARD	33481	N/A	N/A	SERVICE MANUAL
HEWLETT-PACKARD	8770A	N/A	N/A	SERVICE MANUAL
HEWLETT-PACKARD	C2007A	N/A	N/A	SERVICE MANUAL
HEWLETT-PACKARD	E3632A	N/A	N/A	SERVICE MANUAL
HEWLETT-PACKARD	3577A	N/A	N/A	SERVICE MANUAL VOL 1
HEWLETT-PACKARD	3577A	N/A	SERVICES	SERVICE MANUAL VOL 2
HEWLETT-PACKARD	3585A	N/A	N/A	SERVICE VOL 2
HEWLETT-PACKARD	3585A	N/A	N/A	SERVICE VOL 3
HEWLETT-PACKARD	3585A	N/A	N/A	SERVICE VOL1
HEWLETT-PACKARD	8560E	N/A	N/A	USER GUIDE
HEWLETT-PACKARD	8561E	N/A	N/A	USER GUIDE
HEWLETT-PACKARD	8563E	N/A	N/A	USER GUIDE
HEWLETT-PACKARD	35670A	N/A	N/A	VERIFICATION GUIDE
HEWLETT-PACKARD/AGILENT TECHNOLOGIES	53131A	N/A	N/A	SERVICE GUIDE
HEWLETT-PACKARD/AGILENT TECHNOLOGIES	53132A	N/A	X	SERVICE GUIDE
HEWLETT-PACKARD/AGILENT TECHNOLOGIES	53181A	N/A	N/A	SERVICE GUIDE
H-H SCOTT INC.	130	N/A	E	SCHEMATIC
H-H SCOTT INC.	811-B	N/A	E	N/A
HIAC/ROYCO	4100/4150	N/A	OPERATOR	OPERATIONS & MAINTENANCE MANUAL
HIAC/ROYCO	4100/4150	N/A	SERVICE	SERVICE MANUAL
HIC	DT11/A DT114/A	MI-10340710M	X	HIPAD DIGITIZER INTERFACE
HIC	DMP-29	1183/M1-292	OPERATOR	HIPLLOT-PLOTTER
HIC	DMP-29	1183/MI292	SERVICE	PLOTTER
HIC	DP-1	1-2-277	X	PLOTTER
HICKOK	533	N/A	X	2 MANUALS
HICKOK	455A	N/A	X	2 MANUALS
HICKOK	752A	N/A	X	2 MANUALS
HICKOK	5002A	N/A	X	4 MANUALS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HICKOK	LX-303	N/A	B	OPERATORS
HICKOK	800	N/A	X	N/A
HICKOK	850	N/A	X	N/A
HICKOK	870	N/A	E	N/A
HICKOK	1234A	N/A	K	N/A
HICKOK	539C/B	N/A	X	N/A
HICKOK	6000/A 6005	N/A	X	N/A
HICKOK	600A	N/A	X	N/A
HICKOK	890 1890M	N/A	B	N/A
HIGH VACUUM	G91-1	N/A	TECHNICAL	N/A
HIGH VACUUM EQUIP	G91-1	N/A	TECHNICAL	N/A
HII	5060	BTC-5060	D	KEYBOARD
HII	SAM-AT	SAM 3001 AT	CAL PROCEDURE	N/A
HILGER & WATTS	CATALOG	N/A	USER GUIDE	N/A
HIPOTRONICS INC.	860PL	N/A	SERVICE	DC INSULATION TESTER 0-60KV @ 5000UA
HIPOTRONICS INC.	860PL	N/A	SERVICE	T.O. 33K1-4-982-1
HIT	CDR-3500	TY-580E	INSTALLATION	CD-ROM DRIVE
HIT	DK815	DK815-10AINST	SERVICE	INSTALLATION
HIT	HM4119	OM-1367E	K	INSTALLATION OPERATION & MAINT MANUAL
HIT	HM4619	HM4619	U	IRIS MONITOR
HIT	DK815	DK815-10AOEM	SERVICE	OPERATOR SERVICE IPB
HIT	CM207	0013E	TECHNICAL	SILG 3030 MONITOR K
HITACHI	V-211/V-212/V-222/V-422	N/A	N/A	MAINTENANCE
HITACHI	VC-6165	N/A	N/A	OPERATION
HITACHI	V-422/V-222	N/A	N/A	OPERATORS
HITACHI	VC6025	N/A	N/A	OPERATORS
HITACHI	V-209	N/A	MAINT	SCOPE
HITACHI	V-522	N/A	K	SERVICE
HITACHI	V-523	N/A	K	SERVICE
HITACHI	V-1085	N/A	N/A	SERVICE MANUAL
HITACHI	V-1150	N/A	N/A	SERVICE MANUAL
HITACHI	V-209 SCOPE	N/A	OPER	SERVICE MANUAL
HITACHI	V1065/V-1060	N/A	X	N/A
HITACHI DENSHI LTD	V-099	N/A	N/A	OPERATOR'S MANUAL
HITACHI DENSHI LTD	V-099/098	N/A	N/A	SERVICE
HITACHI DENSHI LTD	V-089	N/A	N/A	OPERATOR'S MANUAL
HITACHI DENSHI LTD	V-089/088	N/A	N/A	SERVICE
HITACHI DENSHI LTD.	V525	N/A	SERVICE	MAINTENANCE MANUAL
HITACHI DENSHI LTD.	VC-6165	N/A	TECHNICAL	SERVICE MANUAL
HITACHI DENSHI LTD.	V525	N/A	N/A	USER'S GUIDE
HMG	ALL	MANUAL	TECHNICAL	LASER PRINTER TECHNICAL MANUAL
HMP	SM1200	98-00012	TECHNICAL	MODEM EXT
HMP	SM300	98-019	N/A	MODEM EXT
HMP	SM1200B	98-017	OPERATOR/PROGRAM	MODEM INT
HMP	SMARTCOM	98-00072AB	L	SMARTCOM II USER'S GUIDE
HOBART	HFF-120S16	N/A	I	OWNERS MANUAL
HOKE	CATALOG	N/A	E	LN2 DEWAR VALVES
HOLOBEAM LASER INC	DOUBLE PULSE EL.	N/A	X	N/A
HOLT	3	N/A	E	INSTRUCTION
HOLT	20	N/A	E	INSTRUCTION
HOLT	355	N/A	X	INSTRUCTION
HOLT	323C	N/A	X	INSTRUCTION
HOLT	TV1	N/A	OPERATOR	INSTRUCTION
HOLT	TV1	N/A	U	INSTRUCTION
HOLT	6A	N/A	X	OPERATING/SERVICE
HOLT	HCS-1AF	N/A	E	OPERATING/SERVICE
HOLT	275	N/A	X	N/A
HOLT	448	N/A	E	N/A
HOLT	610	N/A	X	N/A
HOLT	323 A/C	N/A	E	N/A
HOLT	AVA-30M	N/A	E	N/A
HOLT	AVS-321	N/A	E	N/A
HON	L12132 CQ 1	A78135770-100	X	OPERATOR GUIDE USERS MANUAL
HONEYWELL	9052	N/A	U	3 MANUALS
HONEYWELL	A20B	N/A	E	3 MANUALS
HONEYWELL	JG7044A1	N/A	T	GYRO
HONEYWELL	123	N/A	E	INSTRUCTION
HONEYWELL	333	N/A	E	INSTRUCTION
HONEYWELL	333	N/A	E	INSTRUCTION
HONEYWELL	333	N/A	E	INSTRUCTION
HONEYWELL	333	N/A	X	INSTRUCTION
HONEYWELL	500	N/A	X	INSTRUCTION
HONEYWELL	500	N/A	X	INSTRUCTION
HONEYWELL	1622	N/A	N/A	INSTRUCTION
HONEYWELL	2745	N/A	E	INSTRUCTION
HONEYWELL	2745	N/A	E	INSTRUCTION
HONEYWELL	2745	N/A	E	INSTRUCTION
HONEYWELL	2745	N/A	E	INSTRUCTION
HONEYWELL	2745	N/A	X	INSTRUCTION
HONEYWELL	3K20	N/A	E	INSTRUCTION
HONEYWELL	3K20	N/A	E	INSTRUCTION
HONEYWELL	620B	N/A	U	INSTRUCTION
HONEYWELL	A20B	N/A	E	INSTRUCTION
HONEYWELL	EI-85	N/A	E	INSTRUCTION
HONEYWELL	EI-85	N/A	E	INSTRUCTION
HONEYWELL	H208-3/A	N/A	R	INSTRUCTION
HONEYWELL	1881-HGD	N/A	N/A	M00897/AMPLIFIER DIFFERENTIAL
HONEYWELL	1881-HGD	N/A	N/A	M00898/AMPLIFIER DIFFERENTIAL
HONEYWELL	1883A/MP	N/A	K	M00899/AMPLIFIER DIFFERENTIAL
HONEYWELL	1883A/MP	N/A	X	M00900/AMPLIFIER DIFFERENTIAL
HONEYWELL	ELECTRONIK 15	N/A	E	MAINTENANCE
HONEYWELL	SERVOLINE	N/A	X	MAINTENANCE
HONEYWELL	99-02-01	N/A	E	METER & GAGE INSTRUMENTS
HONEYWELL	99-02-01	N/A	X	METER & GAGE INSTRUMENTS
HONEYWELL	61003-G	N/A	X	OPERATION
HONEYWELL	Y477A	N/A	E	OPERATION
HONEYWELL	R7306A/B	N/A	T	OPERATION/MAINTENANCE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HONEYWELL	UDC500	N/A	E	OPERATION/MAINTENANCE
HONEYWELL	EI-85	N/A	E	OPERATORS
HONEYWELL	EI-85	N/A	E	OPERATORS
HONEYWELL	EI-85	N/A	E	OPERATORS
HONEYWELL	EI-85	N/A	E	OPERATORS
HONEYWELL	96	N/A	SERVICE	PARTS LIST
HONEYWELL	96	N/A	U	S/N'S 2000-
HONEYWELL	UDC1	N/A	K	S/N'S 254-1999
HONEYWELL	R7350	N/A	X	SCHEMATICS
HONEYWELL	R7350	N/A	X	SERVICE
HONEYWELL	8M36 & 8M37	N/A	X	SERVICE MANUAL
HONEYWELL	VT100	N/A	T	SPECIFICATIONS
HONEYWELL	1071	N/A	X	WHEATSTONE BRIDGE PORTABLE
HONEYWELL	1071	N/A	X	WHEATSTONE BRIDGE PORTABLE
HONEYWELL	H221-1	N/A	T	XEROX COPY OF AF T.O. 33D4-6-386-1
HONEYWELL	90	N/A	U	N/A
HONEYWELL	96	N/A	SERVICE	N/A
HONEYWELL	101	N/A	INSTRUCTIONS	N/A
HONEYWELL	104	N/A	INSTRUCTIONS	N/A
HONEYWELL	112	N/A	E	N/A
HONEYWELL	117	N/A	K	N/A
HONEYWELL	194	N/A	E	N/A
HONEYWELL	270	N/A	E	N/A
HONEYWELL	320	N/A	E	N/A
HONEYWELL	333	N/A	E	N/A
HONEYWELL	500	N/A	U	N/A
HONEYWELL	5600	N/A	U	N/A
HONEYWELL	500/600 SERIES	N/A	U	N/A
HONEYWELL	5600B	N/A	U	N/A
HONEYWELL	5600C	N/A	H	N/A
HONEYWELL	5620C	N/A	E	N/A
HONEYWELL	6K20	N/A	B	N/A
HONEYWELL	811-670	N/A	U	N/A
HONEYWELL	SA1 43A	N/A	T	N/A
HONEYWELL	SA1 470	N/A	X	N/A
HONEYWELL	T6GA	N/A	E	N/A
HONEYWELL	T6GA	N/A	E	N/A
HONEYWELL	VGR-400	N/A	B	N/A
HONEYWELL	Y452X11-B-11-R	N/A	C	N/A
HORIBA LIMITED	U7	N/A	K	INSTRUCTION
HORIZON ECOLOGY	1484	N/A	X	INSTRUCTION W/SCHEMATICS
HOTRONIC	AD-51	N/A	K	N/A
HOTRONICS INC.	AD51 B/W	N/A	F	INSTRUCTIONS MANUAL
HOUSTON INST. CORP.	HLHC-120	N/A	K	4 MANUALS
HOUSTON INST. CORP.	DMP-51/52	N/A	X	N/A
HOUSTON INST. CORP.	HLVC-150	N/A	K	N/A
HOUSTON INST. CORP.	HR 95 & 97	N/A	K	N/A
HOUSTON INST. CORP.	HR80	N/A	X	N/A
HOWELL INST.	BH 187C-7	N/A	S	N/A
HOZN AUTO & SOFT	MS-401	N/A	S	1 USER'S MANUAL
HP	E3610A/E3611/E3612A	N/A	DIAGNOSTIC	OPER/SERVICE
HP	664XA	N/A	N/A	OPERATING GUIDE
HP	665XA	N/A	N/A	OPERATING GUIDE
HP	667XA	N/A	N/A	OPERATING GUIDE
HP	668XA	N/A	OPE	OPERATING GUIDE
HP	6448A	N/A	N/A	OPERATING/SERVICE MANUAL FOR DC POWER SUPPLY
HP	6448B	N/A	N/A	OPERATING/SERVICE MANUAL FOR DC POWER SUPPLY
HP	664XA	N/A	N/A	PROGRAMMING GUIDE
HP	665XA	N/A	N/A	PROGRAMMING GUIDE
HP	667XA	N/A	N/A	PROGRAMMING GUIDE
HP	668XA	N/A	TECHNICAL	PROGRAMMING GUIDE
HPC	1000L	02103-90003	TECHNICAL	2103
HPC	1000L	02103-90007	TECHNICAL	2103
HPC	TECHNICAL	33449-90903	CATALOG	2260.1352
HPC	12960/61	12960-90003	TECHNICAL	7900
HPC	2752A/54A-B	12531-90042	SERVICE	12531
HPC	7970B	13181-90095	DIAGNOSTIC 24398B	13181
HPC	1000A	24612-13320	A/L SERIES DIAG	1 TAPE
HPC	1000A	24612-13319	DIAG	1 TAPE
HPC	1000A	24612-13321	DIAG	1 TAPE
HPC	1000A	24612-13323	DIAG	1 TAPE
HPC	1000A	24612-13324	DIAG	1 TAPE
HPC	1000A	24613-13303	DIAG	1 TAPE
HPC	1000A	24613-13304	DIAG	1 TAPE
HPC	1000A	EM CON	DIAG	1 TAPE
HPC	44462A	44462-90000	SERVICE	10 CHANNEL MULTIPLEXER CARD/HP-85
HPC	12006B	24397-90006	SERVICE	10006 PARALLEL INTERFACE
HPC	12002A/B	24397-90004	SERVICE	1000L
HPC	12005A	12005-90001	DIAGNOSTICS	1000L
HPC	12005A	24397-90005	SERVICE	1000L
HPC	12006A	12006-90001	SERVICE	1000L
HPC	12007A	12007-90001	SERVICE	1000L
HPC	12008A	24397-90008	SERVICE	1000L
HPC	12009A	12009-90001	DIAGNOSTIC	1000L
HPC	12009A	24397-90009	TECHNICAL	1000L
HPC	12044A	12044-90001	INTERFACE CARD	1000L
HPC	12008A	12008-90001	DIAGNOSTICS	1000L PROM BOARD
HPC	1000M/E/F SERIE	12791-90001	OPERATOR	1000SERIES FIRMWARE
HPC	9800	11202-90000	SERVICE	11202A I/O I/F
HPC	9830A	09830-90004	SERVICE	11270B MATRIX ROM
HPC	12551B/54A/66B	24391-90001	TECHNICAL	12597A/602B/849A/875B (2 COPIES)
HPC	12551B/54A/66B	24391-90001	SERVICE	12597A/602B/849A/875B 2 COPIES
HPC	2100	02100-90169	OPERATOR	12889A
HPC	1000	12992-90001	DIAGNOSTICS	12992 LOADER ROMS
HPC	7906H/7920H	13365-90901	SERVICE	13365 INTERNAL DISC CONTROLLER
HPC	98032A	98032-90000	SERVICE	16-BIT INTERFACE
HPC	VARIOUS	5091-3000EUS	K	1992 TEST & MESUREMENT CATALOG

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	1000F	12740-90004	DIAG	2 COPIES
HPC	2100A	02100-90004	SERVICE	2 COPIES
HPC	DCU TAPE	05420-10921	CATALOG	2 COPIES
HPC	CS/80	09800-90000	DIAGNOSTIC 24398B	200 SERIES CS/80 EXERCISER
HPC	12885	12885-90001	DIAGNOSTIC	2100 CORE 8K
HPC	12895A	12895-90001	INSTALLATION	2100 DMA
HPC	12554A/M1	12554-9001	SERVICE	2100 INTERFACE
HPC	12556B	12556-9002	DIAGNOSTICS	2100 INTERFACE
HPC	12996A	12996-90003	SERVICE	2100 LINE PRINTER
HPC	02100-60053	5951-3038	IPB	2100 POWER SUPPLY
HPC	02100-60053	5951-3038	SERVICE	2100/2155 PWR SUPPLY
HPC	1000L	02103-90009	DIAGNOSTIC	2103 ENGINEERING+REFER
HPC	21MX E-SERIES	02109-90014	SERVICE	2109-2113B
HPC	21MX E-SERIES	02109-90015	TECHNICAL	2109-2113B
HPC	12620A	12620-90001	DIAGNOSTICS	2116 BREADBOARD I/F
HPC	12596A	12596-90021	DIAGNOSTIC	2116 I/O EXT I/F
HPC	12551A	PRELIMINARY	DIAGNOSTIC	2116A INTERFACE
HPC	21MX	02108-90018	ENGINEERING	21MX CPU
HPC	12897B	02109-90007	SERVICE	21MX DCPC
HPC	13304A	02109-90007	SERVICE	21MX FIRMWARE ACC
HPC	12731A	02109-90007	DIAGNOSTICS	21MX MEM EXPANSION
HPC	12892A	02108-90020	DIAGNOSTICS	21MX MEM PROT
HPC	12892	12892-90005	INSTALLATION	21MX MEM PROT/PARITY ERR
HPC	12892B	02109-90007	ENGINEERING	21MX MEM PROTECT
HPC	2102A	02108-90019	SERVICE	21MX MEMORY
HPC	2108 PWR SUPPLY	02108-90022	SERVICE	21MX POWER SUPPLY
HPC	5061-1356	02109-90007	SERVICE	21MX-B POWER SUPPL
HPC	12009	12009-90001	DIAGNOSTICS	2250 HP1B INTERFACE REFERENCE
HPC	2250	25595-13301	DIAGNOSTIC	264X
HPC	2250	25595-13303	DIAGNOSTICS	264X
HPC	2250	25595-13302	DIAGNOSTICS	264X TAPE
HPC	2250	25595-13303	PROGRAMMING	264X TAPE
HPC	2670-60001	02670-60050	OPERATOR	26XX PRINTER
HPC	9123D	5957-6584	SERVICE	3.5 FLEXIBLE DISK DRIVE
HPC	9121/22/33	09121-90030	DIAGNOSTICS	3.5 INCH FLOPPY
HPC	82915A	82915-90001	OPERATOR	300/1200 BPS MODEM
HPC	9825A	09825-90021	SERVICE	3052A-DAS
HPC	9885	09885-90035	SERVICE	3052A-DAS
HPC	3052A	03502-90011	OPERATOR	3052A-DAS
HPC	3052A	03052-90012	TECHNICAL	3052A-DAS
HPC	3437A	03437-90002	OPERATOR	3052A-DAS
HPC	3455A	03455-90002	TECHNICAL	3052A-DAS
HPC	3495A	03495-90011	INSTALLATION	3052A-DAS
HPC	9825A	09825-90020	OPERATOR	3052A-DAS
HPC	9825A	09825-90035	PROGRAM	3052A-DAS
HPC	9825A	09825-90000	PROGRAMS	3052A-DAS
HPC	318M	98563-90030	SERVICE	318M SPU INFO
HPC	12604B	12604-90002	DIAGNOSTICS	32BIT I/O 2100
HPC	A1474A	A1473-90030	TECHNICAL	362/382 CONTROLLERS A2246/7 BUS EXPANDER
HPC	9826/36/9920	98836-10030	PROGRAM	4 DISKS
HPC	7933/7935	07930-90903	SERVICE	404 MEGABYTES (2 COPIES)
HPC	10920A HP1B I/F	10920-90003	OPERATOR	5420A SIGNAL ANAL
HPC	7575A-7576A	07575-90000	SERVICE	7575A/7576A HARDWARE SUPPORT MANUAL
HPC	13215A	13215-90003	OPERATOR	7900A PWR SUPPLY
HPC	7979A/80A/88780A	07980-90030	SERVICE	7979A 7980A 88780A
HPC	7961B/62B/63B	7961-90905	SERVICE	79XX SERIES DISC DRIVES SERVICE HDBK
HPC	12792B	12792-90020	SERVICE	8 CHANNEL MUX
HPC	7979A/80A	07980-90030	SERVICE	88780A
HPC	12998A	12998-90001	SERVICE	8K-2102A 21MX
HPC	9000/300	98613-90071	INSTALLATION	9000 BASIC 4.0 DOCUMENTATION GUIDE+INDX
HPC	9000 SERIES 520	09020-80038	OPERATOR	9000 MODEL 20/520
HPC	9000 SERIES 520	09020-90038	SERVICE	9000 MODEL 20/520 SERIES DOCUMENTATION
HPC	98785A/95A	98785-90039	INSTALLATION	9000 SERIES 300
HPC	1000/91711B	91711-90006	OPERATOR	91711B DIAG. PACKAGE INSTRUCTIONS
HPC	21MX-M/E	92852-90002	OPERATOR	92852 M/E RTE-IV HARDWARE UPGRADE
HPC	98035A	98845-90635	SERVICE	9800 SERIES CLOCK
HPC	98035A	98035-90000	OPERATOR	9800SERIES CLOCK
HPC	11202A	11202-90000	DIAGNOSTICS	9800SERIESINTERFACE
HPC	11203A	11203-90000	DIAGNOSTICS	9800SERIESINTERFACE
HPC	12822A	12822-90001	INSTALLATION	9800SERIESINTERFACE
HPC	98034A	98034-90000	SERVICE	9800SERIESINTERFACE
HPC	98036A	98036-90000	OPERATOR	9800SERIESINTERFACE
HPC	98623	98623-67950	INSTALLATION	9826/36 BCD INTF
HPC	98256A/7A	98257-90000	OPERATOR	9826/36 MEMORY BOARD
HPC	9826A	98626-67950	DIAGNOSTIC	9826/36 RS232 INTF
HPC	9826/9836	98622-67950	TECHNICAL	98622A GPIO INTERF
HPC	98788A	98788-90601	SERVICE	98788A MONOCHROME MONITOR
HPC	7970E/13184	13184-90008	DIAGNOSTIC 24398B	9TRK MAGTAPE
HPC	9000 SERIES 800	A1020-90040	PROGRAM	A1020A 2D GRAPHICS PROCESSOR ADAPTOR CE HDBK
HPC	9845	09845-92065	SCHEMATICS	ADV.PROG ROM
HPC	98629	98619-90020	OPERATOR	ALSO SCHEMATICS/SRM
HPC	9121D/S	5957-6556	SERVICE MANUAL	AMIGO
HPC	2440A	02440-90005	OPERATOR	ANALOG-DIGITAL I/F
HPC	7974	24398-90007	OPERATOR	A-SERIES 7974 EXECISER
HPC	A600/700/900	5955-8896	SERVICE	A-SERIES CE SERVICE HANDBOOK
HPC	12040C	12040-90003	SERVICE	A-SERIES MUX CARD
HPC	2100	02116-9014	DIAGNOSTICS	ASSEMBLER
HPC	2100	02116-9014	OPERATOR	ASSEMBLER
HPC	86	00086-90038	OPERATOR	ASSEMBLY LEVEL
HPC	12966A	12966-90004	DIAGNOSTICS	ASYN
HPC	12968A	12968-90003	SERVICE	ASYN COMM
HPC	12587B	12587-90013	SERVICE	ASYN INTERFACE FOR CE HP2100 SERIES
HPC	12587B	12587-90006	DIAGNOSTIC	ASYN MODEM INTERFACE FOR HP21MX
HPC	9826/9836	09826-90000	PROGRAM	BASIC
HPC	9826/9836	09826-90055	PROGRAM	BASIC
HPC	9826/9836	09826-90010	TECHNICAL	BASIC
HPC	9000-200/300	98613-90061	PROGRAM	BASIC 4.0 CONDENSED REF

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	9000-200/300	98613-90031	INSTALLATION	BASIC 4.0 GRAPH TECH
HPC	9000-200/300	98613-90021	OPERATOR	BASIC 4.0 INTERFACE TEC
HPC	9000-200/300	98613-90051	TECHNICAL	BASIC 4.0 LANGUAGE REF
HPC	9000-200/300	98613-90011	TECHNICAL	BASIC 4.0 PROG TECH
HPC	9000-200/300	98613-90041	PROGRAM	BASIC 4.0 USERS GUIDE
HPC	9000-200/300	98613-90090	PROGRAM	BASIC 4.0 UTIL CSUB
HPC	9000-200/300	98613-90091	PROGRAM	BASIC 4.0 UTIL LIBRARY
HPC	2100	02116-9017	PROGRAM	BASIC CNTL SYS
HPC	9826/9836	09826-90020	SCHEMATICS	BASIC INTERFACING
HPC	200/500	5953-9405	SERVICE	BENCHMARKS
HPC	9845	09845-00000	SERVICE	BLUEPRINTS
HPC	9825	09825-90037	SCHEMATICS	BOOK
HPC	1000A	24612-90001	DIAGNOSTICS	BOOK
HPC	12966A	12966-90001	DIAGNOSTICS	BUFF ASYNCH COMM
HPC	59310A/B	59310-90061	SERVICE	BUS INTERFACE
HPC	9825A	09825-90011	DIAGNOSTICS	CALC. QUICK REF.
HPC	9825	9825	INSTALLATION	CALCULATOR
HPC	9830	9830	OPERATOR	CALCULATOR
HPC	9100A	09100-90034	SERVICE	CALCULATOR
HPC	9120A	09120-90001	OPERATOR	CALCULATOR
HPC	9830A	09830-90000	DIAG	CALCULATOR
HPC	9830A	09830-90001	DIAG	CALCULATOR
HPC	9810A/9820A	09820-90015	SERVICE	CALCULATOR (2 COPIES)
HPC	HP-IB 59405A	59405-90000	SERVICE	CALCULATOR I/F
HPC	9825A	09825-90024	SYSTEM TAPE	CALCULATOR I/O PROGRAM
HPC	9825A	09825-90025	TECHNICAL	CALCULATOR I/O PROGRAM
HPC	9830A/11272B	09830-90029	DIAGNOSTIC	CALCULATOR I/O ROM
HPC	9862A	09862-90012	INSTALLATION	CALCULATOR PLOTTER
HPC	9825A/9862A	09825-90023	OPERATOR	CALCULATOR/PLOTTER
HPC	A600/A700	12030-90001	SERVICE	CARD CAGE MANUAL FOR HP1000A
HPC	12892A/12924A	12924-90006	INSTALLATION	CARD READER
HPC	2892A/2893A	02892-90001	SERVICE	CARD READER
HPC	9869A	09869-90003	OPERATOR	CARD READER
HPC	9869A	09869-90003	SERVICE	CARD READER
HPC	9870A	09870-90030	OPERATOR	CARD READER
HPC	9870A	09870-90000	SERVICE	CARD READER
HPC	12924A	12924-90001	SERVICE	CARD READER I/F2100
HPC	12989A	12989-90001	SERVICE	CARDREADER
HPC	7905/06/20/25	12962-90001	PROGRAM	CARTRIDGE DISC
HPC	7905	07905-90007	SERVICE	CARTRIDGE DISK
HPC	1000	91711-13305	TECHNICAL	CASSETTE
HPC	1000	91711-13306	TECHNICAL	CASSETTE
HPC	1000L	24397-13301	DIAGNOSTICS	CASSETTE
HPC	1000L	24397-13302	OPERATOR	CASSETTE
HPC	1000L	24397-13303	SCHEMATICS	CASSETTE
HPC	9865A	09865-90003	SCHEMATICS	CASSETTE MEMORY
HPC	9845B	09845-80000	SERVICE	CASSETTES
HPC	4920	09920-90039	SERVICE	CE HANDBOOK
HPC	7908	07908-90905	SERVICE	CE HANDBOOK
HPC	9816	09816-90039	DIAGNOSTIC	CE HANDBOOK
HPC	9000 SERIES 520	09020-90035	INSTALLATION GUIDE	CE HANDBOOK
HPC	9845B/C	09845-90039	OPERATOR	CE HANDBOOK
HPC	98720A	98720-90039	SERVICE	CE HANDBOOK
HPC	9000	A1926-90003	SERVICE	CE HANDBOOK FOR 9000 SERIES 700 WORKSTATIONS
HPC	1000/21MX	5950-3767	DIAGNOSTIC	CE HANDBOOK JULY 1984
HPC	33440	33440-90906	SERVICE	CE HBK HP33440 LASERJET SERIES II
HPC	7911/7912	07912-90905	TECHNICAL	CE SERVICE
HPC	HPC7957A	07957-90905	DIAG	CE SERVICE HANDBOOK
HPC	9145	9145-90039	OPERATOR	CE-SERVICE HANDBOOK
HPC	9133/4	09133-90031	SERVICE	CHANGE SHEET
HPC	9845C	09845-92051	TECHNICAL	COLOR GRAPHICS
HPC	9000 SERIES 520	98770-90031	TECHNICAL	COLOR GRAPHICS DISPLAY MANUAL
HPC	98627	98627-90000	INSTALLATION	COLOR OUTPUT INTERFACE
HPC	33440/33449	33449-90906	TECHNICAL	COMBINED SERVICE MANUAL - LASERJET II/III
HPC	2001	C2037-90985	DIAGNOSTIC	COMBINED SERVICE MANUAL C2037/C2039 C2001/C2021 LASERJ4
HPC	2250	25580-90007	DIAGNOSTICS	LASERJET 4M LASERJET 4+ LASERJET 4M+ HPC 2001
HPC	12966A	12966-90004	DIAGNOSTICS	COMMAND SUMMARY
HPC	85B	0085-90988	OPERATOR	COMMUNICATIONS INTERFACE
HPC	2000	02100-90157	SERVICE	COMPUTER
HPC	24296-60001	02100-90157	DIAG	CONFIGURATOR
HPC	1000	02100-90157	DIAGNOSTICS	CONFIGURATOR
HPC	150	45626-90003	SERVICE	CONFIGURATOR (2 COPIES)
HPC	13181/7970	13181-90901	SERVICE	CONNECT PTR PLOTTERS DISC DR
HPC	7974	07974-90030	SERVICE	CONTROLLER FOR HP7970 AND HP1000/21MX
HPC	2100	02100-90219	DIAGNOSTICS	COPY2
HPC	5245L	05245-9039	SERVICE	CORE MEMORY
HPC	5316A	05316-90001	SERVICE	COUNTER
HPC	5212A/5512A	05212-9009	SERVICE	COUNTER
HPC	BLUE BOOK	5952-8253	SERVICE	COUNTERS
HPC	9826/9836	8710-0675	INSTALLATION	CROSS REFERENCE
HPC	2195821	5957-4227	SERVICE	CRT ALIGNMENT TOOL
HPC	1000L	5955-4358	SERVICE	CS80 DIAG.
HPC	5451C	05451-90548	SERVICE	CUSTOMER SUPPORT HANDBOOK
HPC	13194A/7970E	13194-90003	SERVICE	CUSTOMER SUPPORT HANDBOOK
HPC	3421A	03421-90001	TECHNICAL	DAISY-CHAINED TAPE DRIVES
HPC	3421A	03421-90000	OPERATOR	DATA ACQ CONTROL
HPC	3421A	03421-90006	SERVICE	DATA ACQ CONTROL
HPC	3421A/3056DL	03421-90005	OPERATOR	DATA ACQ CONTROL
HPC	3052A/9825A	03052-90032	SERVICE	DATA ACQ/LOGGER
HPC	05451-60025	05451-90217	DIAGNOSTICS	DATA ACQUISITION
HPC	05451-60025	05451-90217	DIAGNOSTICS	DATA/CNTL INT CARD 2 COPIES
HPC	6259B	06259-90001	SERVICE	DATA/CONTROL INTERFACE
HPC	9826	09826-90039	SERVICE	DC POWER SUPPLIES
HPC	12897A	12897-90001	SERVICE	DCD CE HANDBOOK
HPC	2100AS 1000	24322-90002	IPB	DCPC
HPC	1000L	24397-90003	TECHNICAL	DCPC/DMA
HPC	9825	09825-90031	INSTALLATION	DESIGN LANGUAGE
HPC				DESKTOP COMPUTER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	9826	09826-90030	OPERATOR	DESKTOP COMPUTER
HPC	9826/9836	98620-90000	PROGRAM	DESKTOP COMPUTER
HPC	9826/9836	09826-90030	TECHNICAL	DESKTOP COMPUTER SEE HPC 472
HPC	9845A	09845-90030	TECHNICAL	DESKTOP CPU
HPC	9866A/12566B	12996-90001	OPERATOR	DIAGNOSTIC
HPC	2250	2250-2P	DIAGNOSTICS	DIAGNOSTIC DESCRIPTION INSTRUCTIONS
HPC	1000 A/L SERIES	24612-90002	PROGRAM	DIAGNOSTIC DESIGN LANGUAG
HPC	9145	09145-90902	DIAGNOSTIC	DIAGNOSTIC UTILITY
HPC	12531-16001	12531-90042	SERVICE	DIAGNOSTICS
HPC	12539-16001	12539-90011	TECHNICAL	DIAGNOSTICS
HPC	24322-16001	02100-90217	DIAG	DIAGNOSTICS
HPC	2250	25595-90001	PROGRAM	DIAGNOSTICS AND VERIFICATION
HPC	12560A	12560-9001	DIAGNOSTICS	DIG PLTR INTERFACE
HPC	9874A	09874-90000	OPERATOR	DIGITIZER
HPC	9874A	09874-90000	OPERATOR	DIGITIZER
HPC	13037	13037-90006	SERVICE	DISC CONTROLLER2100
HPC	13210A	13210-90003	TECHNICAL	DISC CONTROLLER2100
HPC	82901M/82902M	82901-90001	SERVICE	DISC DRIVE
HPC	82901MS/82902MS	82901-90031	SERVICE	DISC DRIVE
HPC	7901A	07901-90013	DIAGNOSTICS	DISC DRIVE FICHE
HPC	12821A	12821-90006	SERVICE	DISC INTF 7906H
HPC	7942/7946	07942-90903	SERVICE	DISC/TAPE DRIVES
HPC	7906	07906-90903	DIAGNOSTIC	DISK
HPC	7900A	07900-90002	SERVICE	DISK DRIVE
HPC	9895A	09895-90030	INSTALLATION	DISK DRIVE/SCHEMATICS
HPC	1000	5955-4355	DIAGNOSTICS	DISK UTILITIES
HPC	2100	24322-90002	DIAGNOSTIC	DMA
HPC	12578A	12578-9001	DIAGNOSTIC	DMA FOR 2115/2116
HPC	9000-200/300	98613-90071	PROGRAM	DOCUMENTATION GUIDE
HPC	INDEX	5953-2460	SERVICE	DOCUMENTATION INDEX
HPC	2563A	02563 90904	SERVICE	DOT MATRIX LINE PRINTER
HPC	7595C/96C/99B	07595-90500	SERVICE	DRAFTING PLOTTERS
HPC	DRAFTPRO	07575-90001	SERVICE	DRAFTPRO DSL/EXL PROGRAMMER'S REFERENCE
HPC	DRAFTPRO	07575-90002	OPERATOR	DRAFTPRO DXL/EXL USER'S MANUAL
HPC	7570A	07570-90000	SERVICE	DRAFTPRO PLOTTER
HPC	3455A	03455-90002	TECHNICAL	DVM
HPC	3455A	03455-90011	TECHNICAL	DVM
HPC	2602A	02602-90002	DIAGNOSTICS	DW PRINTER
HPC	DY-2010A	DY-2010A	PROGRAM	DYMEC DY-201 0A
HPC	2250	35050-10004	DIAGNOSTICS	EM-CON TAPE
HPC	A900-2139	02139-90003	USER	ENGINEERING AND REFERENCE
HPC	A600-2156	02156-90003	TECHNICAL	ENGINEERING AND REFERENCE
HPC	A700-2137	02137-90005	CATALOG	ENGINEERING REFERENCE
HPC	1000M/E/F	92851-90001	PROGRAM	ENGINEERING/REFERENCE
HPC	9835	09835-90040	SERVICE	EXERCISER (2 COPIES)
HPC	2100/1000	02100-90214	DIAGNOSTICS	EXT ARITH INSTRUCT
HPC	12979A	12979-90006	DIAGNOSTICS	EXTENDER 21MX
HPC	CS/80	5955-3462	SERVICE	EXTERNAL EXERCISER
HPC	CS/80	5955-3462	SERVICE	EXTERNAL EXERCISER REFERENCE 2 COPIES
HPC	2895B	02895-90008	OPERATOR	FACIT 4070
HPC	98788A	98788-90000	SYSTEM TAPE	FAMILIARIZATION GUIDE
HPC	12972	12972-90002	DIAGNOSTIC	FICHE
HPC	9195	09195-90060	DIAGNOSTICS	FIELD SUPPORT GUIDE
HPC	9000/200/300	09800-10534-GB	DIAG	FLOPPY
HPC	9000/200/300	09800-10534-GA	INSTALLATION	FLOPPY
HPC	9000/200/300	BASIC SYS 2.0	PROGRAM	FLOPPY
HPC	9000/200/300	EXT BASIC 2.1	SYSTEM	FLOPPY
HPC	12732A/12733A	12732-90005	SERVICE	FLOPPY DISK
HPC	12732A/33A	12732-90003	SERVICE	FLOPPY DISK
HPC	9895A	09895-90030	SERVICE	FLOPPY DISK
HPC	9130K	09130-90030	INSTALLATION	FLOPPY DISK 5 INCH
HPC	98635A/98620	09816-90011	SERVICE	FLT PNT MTH CARD-DMA CONT
HPC	98623	98623-90000	INSTALLATION	FOR 9826/9836 BCD
HPC	98627A	98627-90000	INSTALLATION	FOR 9826/9836 COLOR
HPC	98628A	98628-90000	SERVICE	FOR 9826/9836 DCOM
HPC	98622A	98622-90000	TECHNICAL	FOR 9826/9836 GPIO
HPC	98624	98624-90000	SCHEMATIC	FOR 9826/9836 HPIB
HPC	98626A	98626-90000	INSTALLATION	FOR 9826/9836 RS232
HPC	7970E	07970-90980	SERVICE	FOR HP1000A/L WITH HPIB TO 7970E
HPC	HP150 II	45849-90002	TECHNICAL	FOR HP150 MODEL II TOUCHSCREEN
HPC	2250	25595-13306	OPERATOR	FOR HP85
HPC	2250	25595-13305	DIAGNOSTICS	FOR HP85 TAPE
HPC	2250	25595-13307	DIAGNOSTICS	FOR HP85 TAPE
HPC	9810	09810-90016	OPERATOR	FORMS
HPC	12908B	12908-90011	DIAGNOSTICS	FOUIRE INTERFACE
HPC	5420A	05420-90014	OPERATOR	FOURIER ANALYZER
HPC	5451B	05451-90186	SERVICE	FOURIER ANALYZER
HPC	2250	MULTI PROG	DIAGNOSTICS	GAIN ADJ PGM
HPC	150	92248-90026	OPERATOR	GAMES-WINNING DEAL
HPC	150	45847-90001	OPERATOR	GETTING STARTED
HPC	59401A	59401-90002	SERVICE	GFE
HPC	98622	98622-90000	INSTALLATION	GP10 INTERFACE BD
HPC	7470A	07470-90002	OPERATOR	GRAPHIC PLOTTER
HPC	7470A	07470-90000	SERVICE	GRAPHIC PLOTTER
HPC	7470A	07470-90001	SERVICE	GRAPHIC PLOTTER
HPC	7470A	07470-90004	SERVICE	GRAPHIC PLOTTER
HPC	1351A	01351-90904	OPERATOR	GRAPHICS GENERATOR
HPC	1351A	01351-90905	PROGRAM	GRAPHICS GENERATOR
HPC	7225B	07225-90006	SERVICE	GRAPHICS PLOTTER
HPC	9111A	09111-90009	SERVICE	GRAPHICS TABLET
HPC	2393A/2397A	02393-90003	DIAGNOSTIC	GRAPHICS TERMINAL 2 COPIES
HPC	1350A	01350-90903	OPERATOR	GRAPHICS TRANSLATOR
HPC	1350A	01350-90907	SERVICE	GRAPHICS TRANSLATOR
HPC	318	98563-90039	OPERATOR	HANDBOOK
HPC	7957A/7958A	07957-90905	SERVICE	HANDBOOK
HPC	9825A/B	09825-90039	OPERATOR	HANDBOOK
HPC	A1474A	A1473-90020	SERVICE	HARDWARE CONFIG 362/382 9000 SERIES



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	2250	02250-90001	TECHNICAL	HARDWARE REFERENCE SEPT 83
HPC	7936/7937	07937-90903	TECHNICAL	HARDWARE SUPPORT
HPC	7957A/7958A	07957-90903	SERVICE	HARDWARE SUPPORT
HPC	9000-835	09740-90011	DIAGNOSTIC	HARDWARE SUPPORT
HPC	98785A	98785-90030	SERVICE	HARDWARE SUPPORT
HPC	98720A	98720-90030	SERVICE	HARDWARE SUPPORT DOCUMENT
HPC	9920	09837-90030	INSTALLATION	HARDWARE SUPPORT DOCUMENTATION
HPC	700	5957-9991	SERVICE	HARDWARE SUPPORT MANUAL
HPC	7440A	07440-90000	OPERATOR	HARDWARE SUPPORT MANUAL
HPC	3630	0360-90000	SERVICE	HARDWARE SUPPORT MANUAL - HP 3630/C1662 PRINTERS
HPC	2102E	02107-90007	SCHEMATICS	HI SPD MEM CNTRLR
HPC	9000/330/350	98562-90030	SERVICE/INSTALLATION	HP 9000 SERIES 300 COMPUTER SERVICE INFO MANUAL
HPC	9000/330/350	98567-90039	SERVICE	HP 9000 SERIES 300 COMPUTERS SERVICE HDBK
HPC	9000/300	98625-90000	PROGRAM	HP 98625A DISK INTERFACE
HPC	9000/300	98642-90001	PROGRAM	HP 98642A 4 CHANNEL MUX
HPC	9000 SERIES 400	A1630-90009	SERVICE	HP APOLLO 9000 SERIES 400 SERVICE HDBK
HPC	1000 RTE	COMMUNICATOR	PROGRAM	HP COMMUNICATOR NEWSLETTER
HPC	DOCU	5953-24600	OPERATOR	HP COMPUTER
HPC	2276/77	02277-90010	SERVICE	HP DESKJET FAMILY PRINTERS
HPC	DESKJET-227X	C2106-90021	PROGRAM	HP DESKJET FAMILY PRINTERS
HPC	9826	09826-90045	OPERATOR	HP L/C QUICK REF GUIDE
HPC	C2003/C2005A	C3150-99022	SEE HPC 215	HP LASERJET/4L/4ML/4P/4MP SERVICE MANUAL
HPC	35731	35731-90001	SERVICE	HP MONOCHROME MONITOR
HPC	3305/660S	C2212-90905	TECHNICAL	HP SERIES 6000 SERVICE HANDBOOK
HPC	C2212A	REF	SERVICE	HP SERIES 6000 SERVICE HANDBOOK
HPC	650/A	C1701-90030	SERVICE	HP SERIES 6300 MODEL 650/A
HPC	3305/660S	C2212-90901	PERIPHERAL HANDBOOK	HP SERIES OWNER'S MANUAL
HPC	ICD/MAC DISK	5955-4355	TECHNICAL	HP1000 TO HP1B DISK DIAGNOSTIC
HPC	9000/835/825	A1002-90039	SERVICE	HP3000 SERIES 925/MODEL 825 CE HDBK
HPC	HP33440/HP33449	33449-90906	SERVICE	HP33440/HP33449 SERVICE MANUAL
HPC	3421A	03421-90007	SERVICE	HP-41C/CV
HPC	13181A	13181-90091	INSTALLATION	HP7970 INTERFACE CARD ON MICROFICHE
HPC	86/87	00087-90002	DIAGNOSTIC	HP86/87
HPC	9000	09800-90001	SERVICE	HP9000/300 SERIES COMPUTER
HPC	9816	09816-90030	TECHNICAL	HP9816 TERMINAL
HPC	300 SERIES	98561-90039	SERVICE	HP-98561A/B
HPC	9000 SERIES 520	98780-90030	INSTALLATION	HP9870A
HPC	9000/300	98613-90052-1	CATALOG	HPC 9000 BASIC 5.0 LANGUAGE REF VOL 1
HPC	9000/300	98613-90052-2	SERVICE	HPC 9000 BASIC 5.0 LANGUAGE REF VOL 2
HPC	98561A	98561-90030	INSTALLATION	HPC 9000/310 SERIES
HPC	98561A	98561-90099	SCHEMATIC	HPC 9000/310 SERIES
HPC	98561A	98561-90020	SERVICE	HPC 9000/310 SERIES
HPC	98561A	98561-90039	TECHNICAL	HPC 9000/310 SERIES
HPC	HP-HIL	46020-90001	SERVICE	HP-HIL KEYBOARD
HPC	9830A	59300-90002	DIAGNOSTIC	HP1B
HPC	59401	59401-90030	SERVICE	HP1B BUS
HPC	59309A	59309-90004	DIAGNOSTICS	HP1B CLOCK
HPC	37203A	37203-90000	SERVICE	HP-1B EXTENDER
HPC	37204A/B	37204-9008	OPERATOR	HP-1B EXTENDER OPERATING & SERVICE MANUAL
HPC	1000/HP-1B	59310-90064	DIAG	HP1B INTERFACE
HPC	59310A/B	59310-90061	TECHNICAL	HP1B INTERFACE
HPC	59310B	59310-90068	SERVICE	HP1B INTERFACE
HPC	9826/9836	09826-90040	TECHNICAL	HPL
HPC	9000/300	97005-90010	SERVICE	HP-UX SOFTWARE RELEASE/STATUS BULLETIN
HPC	9868A	09868-90001	SERVICE	I/O EXPANDER
HPC	9878A	09878-90000	INSTALLATION	I/O EXPANDER
HPC	11202A	09830-90007	SERVICE	I/O ROM
HPC	7906H/7920H	5955-4355	OPERATOR	ICP
HPC	A700-2137	02137-90002	SERVICE	INSTALLATION
HPC	9000 SERIES	A1926-9003	SERVICE	INSTALLATION IPB
HPC	A1474A	A1473-90015	SERVICE	INSTALLATION 362/382 9000 SERIES
HPC	2250	02250-90018	DIAGNOSTICS	INSTALLATION AND DIAGNOSTICS OCT 84
HPC	2100A	02100-90002	DIAGNOSTICS	INSTALLATION AND MAINTENANCE
HPC	1000L	02145-90003	DIAGNOSTICS	INSTALLATION AND SERVICE
HPC	12007A	12007-90001	OPERATOR	INSTALLATION AND SERVICE
HPC	A700	02137-90002	TECHNICAL	INSTALLATION AND SERVICE
HPC	98720A	98720-90000	SERVICE	INSTALLATION REFERENCE
HPC	300 SERIES	98561-90000	INSTALLATION	INSTALLATION REFERENCE FOR HP 9000
HPC	345	B1862-90007	TECHNICAL	INSTALLING PERIPHERALS VOLUME 1
HPC	2673A	02670-90016	SERVICE	INTELLIGENT GRAPHICS PRINTER
HPC	7470A	07470-90003	TECHNICAL	INTERCONNECTION
HPC	98034A HP-1B	98034-90000	OPERATOR	INTERFACE
HPC	RS232	98626-90000	LASERJET III PRINTER TECHNICAL REF.MNL.	INTERFACE ASS BD
HPC	1000 A/L SERIES	24612-90004	DIAGNOSTIC	INTERFACE DIAGNOSTICS
HPC	12880A	12880-90001	DIAGNOSTICS	INTERFACE KIT
HPC	12566C	12566-90032	DIAGNOSTICS	INTFC KIT
HPC	12566B	12566-90015	SERVICE	INTFC KITS (2 COPIES)
HPC	2250	5953-6980	DIAGNOSTICS	INTRO PROG 2250 WITH SERIES 200
HPC	2621	13220-91000	TECHNICAL	INTRODUCTION
HPC	86	00086-90014	PROGRAMMING	INTRODUCTION TO HP86
HPC	2100	02100-90213	SERVICE	IO
HPC	7475A	07475-90000	SERVICE	IPB-SCHEMATICS
HPC	12812A	12812-90001	DIAGNOSTIC	KENNEDY MTU I/F
HPC	1000L	24397-90002	TECHNICAL	KERNEL
HPC	1000 A/L SERIES	24612-90003	PROGRAM	KERNEL DIAGNOSTICS
HPC	2621	13220-91001	OPERATOR	KYBD
HPC	C2003	LASERJET 4L	SERVICE	LASER JET 4L USER'S GUIDE
HPC	2686A	02686-90912	DIAGNOSTICS	LASER JET PRINTER
HPC	2686A	02686-90914	SERVICE	LASER JET PRINTER
HPC	33440	33440-90905	OPERATOR	LASERJET SERIES II TECH REFERENCE
HPC	LASERJET4	C2037-90985	OPERATOR	LASERJET4 FAMILY TECHNICAL MANUAL
HPC	2100	02608-90906	PROGRAM	LINE PRINTER
HPC	2607	12987-90004	DIAGNOSTIC	LINE PRINTER
HPC	2607	12987-90004	SERVICE	LINE PRINTER
HPC	2607A	02607-90901	SERVICE	LINE PRINTER
HPC	2607A	02607-90901	TECHNICAL	LINE PRINTER
HPC	9866	12966-90001	OPERATOR	LINE PRINTER INTERFACE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	9000-200/300	98613-90092	PROGRAM	LOADER UTILITY
HPC	24398B	24398-90005	DIAGNOSTIC 24398B	LOADING DIAG FROM 3.5 INCH FLOPPY
HPC	24398B OPT 051	24398-90006	DIAG	LOADING DIAG FROM MAG TAPE
HPC	13279	13279-90002	ENGINEERING	LOGIC IPB
HPC	N/A	5952-8253	DIAGNOSTIC	LOGISTICS DATA BOOK
HPC	2630	02631-90913	SERVICE	LONG BOOK
HPC	2100 SERIES	24390-90001	DIAGNOSTICS	LONG DIAG CPU + MEM
HPC	6267B	06267-90002	SERVICE	LVR SERIES
HPC	1000	5955-0282	DIAGNOSTICS	M/E/F(A500)TECHNICAL REF.
HPC	13183A	13183-90000	SERVICE	MAG TAPE INTFC PCA
HPC	2100	5950-9202	PROGRAM	MAG TAPE SYSTEM
HPC	1000/21MX/2100	5950-3767	OPERATOR	MAGIC WHITE BOOK
HPC	12768A	12768-93001	TECHNICAL	MAINFRAME
HPC	9845	09845-90070	SERVICE	MASS STORAGE
HPC	9810	09810-70000	OPERATOR	MATH PAC
HPC	2250	14409-2153	SERVICE	MCX 35 TAPE
HPC	2250	98200A	INSTALLATION	MCX 85 TAPE
HPC	2250	25582-13301	DIAGNOSTICS	MCX/9845/9835 TAPE
HPC	7090A	07090-90000	SERVICE	MEASUREMENT/PLOTTER
HPC	5302	05302-90006	SERVICE	MEASURING SYSTEM
HPC	5300A/5302A	05300-90010	SERVICE	MEASURING SYSTEM
HPC	12990B	12990-90007	INSTALLATION	MEM EXTEND 21MX
HPC	2102C	02109-90007	SERVICE	MEM FAULT CNTRLR
HPC	12892A	12892-90001	SERVICE	MEM PROTECT
HPC	2100/1000	02100-90218	IPB	MEM REF INSTRUCT
HPC	150	45420-90003	OPERATOR	MEMOMAKER
HPC	150	45420-90004	OPERATOR	MEMOMAKER WORD PROCESSING/WITH REF CARD
HPC	1000	12929-90003	DIAGNOSTIC	MEMORY
HPC	21MX	24395-90001	OPERATOR	MEMORY
HPC	9000-200-216	09816-90001	PROGRAM	MEMORY CONFIGURATION WHEEL
HPC	2102X/12XXX	5955-4310	DIAGNOSTICS	MEMORY SYSTEMS
HPC	21MX	24395-90003	TECHNICAL	MICRO-MEMORY
HPC	9826	09826-90073	DIAGNOSTIC	MICROPROCESSOR IC (68000)
HPC	24398B	24398-13337	DIAGNOSTIC 24398B	MINICARTRIDGE TAPE
HPC	24398B OPT 051	24398-13319	DIAG	MINICARTRIDGE TAPE
HPC	24398B OPT 051	24398-13321	OPERATOR	MINICARTRIDGE TAPE
HPC	24398B OPT 051	24398-13320	SERVICE	MINICARTRIDGE TAPE
HPC	ICD/MAC DISK	24398-13339	DIAG	MINICARTRIDGE TAPE
HPC	ICD/MAC DISK	24398-13340	DIAGNOSTIC	MINICARTRIDGE TAPE
HPC	ICD/MAC DISK	24398-13341	TECHNICAL	MINICARTRIDGE TAPE
HPC	N/A	24398-13321	SERVICE	MINICARTRIDGE TAPE
HPC	N/A	24398-13329	SERVICE	MINICARTRIDGE TAPE
HPC	24398B	24398-13322	DIAG	MINICARTRIDGE TAPES
HPC	24398B	24398-13325	DIAG	MINICARTRIDGE TAPES
HPC	24398B	24398-13326	DIAG	MINICARTRIDGE TAPES
HPC	24398B	24398-13329	DIAGNOSTICS	MINICARTRIDGE TAPES
HPC	13279B	13279-90001	SERVICE	MONITOR
HPC	35731A/B	35731-90002	SERVICE	MONITOR
HPC	35731H	35731-90013	OPERATOR	MONITOR
HPC	35741A/B	35741-90002	SERVICE	MONITOR
HPC	35721	35721-90004	SERVICE	MONITOR SERVICE
HPC	82913A/2A	5957-3338	OPERATOR	MONITOR SERVICE
HPC	2102B	02109-90007	SERVICE	MOS MEMORY
HPC	34401A	34401-90006	INSTALLATION	MULTIMETER 34401A QUICK REFERENCE
HPC	34401A	34401-90003	OPERATOR	MULTIMETER GFE 5869 USERS GUIDE
HPC	12920 A/B	12920-90009	TECHNICAL	MULTIPLEXOR
HPC	6940A	06940-90003	SERVICE	MULTIPROGRAMMER
HPC	6940B	06940-90005	SERVICE	MULTIPROGRAMMER
HPC	6942A	06942-90006	SERVICE	MULTIPROGRAMMER
HPC	9000-835	09740-90028	DIAG	OFFLINE DIAGNOSTIC SYSTEM MANUAL
HPC	9000-835	09740-90021	DIAGNOSTIC	ONLINE DIAGNOSTIC UTILITY MANUAL
HPC	9000-835	09740-90031	DIAGNOSTIC	ONLINE DIAGNOSTIC-DEVICE ADAPTERS
HPC	9000-835	09740-90028	SYSTEM	ONLINE DIAGNOSTIC-1002A/A1100
HPC	86/87	00087-90017	OPERATOR	OPERATING AND BASIC PROGRAMMING
HPC	9825A	09825-90000	DIAGNOSTICS	OPERATING AND PROGRAMMING
HPC	7901	07901-90003	SERVICE	OPERATING AND SERVICE
HPC	12008A	24397-90008	SERVICE	OPERATING MANUAL
HPC	12554-BR549	12554-98R549	SERVICE	OPERATION AND SCHEMATICS OF TEST BOX
HPC	5451C	05451-90502	SERVICE	OPERATION AND SERVICE
HPC	10254A	10254-90902	SERVICE	OPERATOR
HPC	1600A	01600-90905	CATALOG	OPERATOR
HPC	203A	00203-99003	DIAGNOSTIC	OPERATOR
HPC	2686	02686-90904	OPERATOR	OPERATOR SERVICE SCHEMATICS
HPC	2564	02564-90919	SERVICE	OPERATORS GUIDE
HPC	9133	09133-90075	OPERATOR	OPERATORS GUIDE
HPC	PORTABLE PLUS	45711-90055	SCHEMATIC	OPERATOR'S MANUAL
HPC	150	45847-90001	SERVICE	OWNERS
HPC	82906A	82906-90001	OPERATOR	OWNERS MANUAL
HPC	2621P	02620-90001	OPERATOR	OWNER'S MANUAL
HPC	82939A	82939-90012	OPERATOR	OWNER'S MANUAL
HPC	SERIES 80	82937-90017	CATALOG	OWNER'S MANUAL SERIES 80
HPC	24296-60001	02100-90157	TECHNICAL	PAPER TAPE
HPC	12597-16001	12597-90031	SERVICE	PAPER TAPE PUNCH
HPC	2563	02563-90906	SERVICE	PARTS AND DIAGRAMS
HPC	2564	02564-90926	TECHNICAL	PARTS LIST AND DIAGRAMS
HPC	9826/9836	09826-90070	PROGRAM	PASCAL
HPC	9826/9836	09826-90071	SERVICE	PASCAL
HPC	9000-200/300	97005-90000	PROGRAM	PERIPHERAL INSTALLATION
HPC	150	45422-90104	INSTALLATION	PERSONAL CARD FILE
HPC	5440B	05440-90018	SERVICE	PIM
HPC	5440B	05440-90021	TECHNICAL	PIM
HPC	12560A	12560-90029	SERVICE	PLOTTER
HPC	7245A	07245-90000	OPERATOR	PLOTTER
HPC	7550A	07550-90000	SERVICE	PLOTTER
HPC	7585B	07585-90002	SERVICE	PLOTTER
HPC	9862A	09862-90012	SERVICE	PLOTTER
HPC	9872A	09872-90000	SERVICE	PLOTTER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	9872A	09872-90002	SERVICE	PLOTTER
HPC	9872B	09872-90006	SERVICE	PLOTTER
HPC	9872C/T	09872-90012	SERVICE	PLOTTER
HPC	9872C/T	09872-90012	SERVICE	PLOTTER
HPC	9872S	09872-90007	SERVICE	PLOTTER
HPC	9862A	09862-90011	OPERATOR	PLOTTER (2 COPIES)
HPC	9872A	09872-90002	SERVICE	PLOTTER (2 COPIES)
HPC	12560A	12560-90029	TECHNICAL	PLOTTER INTERFACE
HPC	9825A	09825-90023	PROGRAM	PLOTTER PROGRAMMING
HPC	7240A	07240-90001	SERVICE	PLOTTER/PRINTER
HPC	2621	13220-91004	TECHNICAL	POWER SUPP
HPC	2621	13220-91019	TECHNICAL	POWER SUPP
HPC	21MX	02108-90022	DIAGNOSTICS	POWER SUPPLIES
HPC	6256B-6274B	5952-3937D	SERVICE	POWER SUPPLIES
HPC	262XX	13220-91004	SERVICE	POWER SUPPLY
HPC	262XX	13220-91019	TECHNICAL	POWER SUPPLY
HPC	2621	13220-91019	TECHNICAL	POWER SUPPLY MODULE
HPC	2100	02116-91751	OPERATOR	PREPARE TAPE
HPC	7595C/7596C	07595-90500	SERVICE	PREVENTATIVE CORRECTIVE MAINTENANCE
HPC	2608A	02608-90905	SERVICE	PRINTED 5/82
HPC	2631	02631-90906	SERVICE	PRINTER
HPC	9866	9866	TECHNICAL	PRINTER
HPC	9876	09876-90000	SERVICE	PRINTER
HPC	9876	09876-90010	SERVICE	PRINTER
HPC	9876	09876-90025	SERVICE	PRINTER
HPC	82905	82905-90063	OPERATOR	PRINTER
HPC	82905	82905-90063	SERVICE	PRINTER
HPC	2608A	02608-90906	DIAGNOSTICS	PRINTER
HPC	2608A	02608-90904	OPERATOR	PRINTER
HPC	2608A	02608-90908	OPERATOR	PRINTER
HPC	2608A	02608-90903	PROGRAM	PRINTER
HPC	2608A	02608-90902	SCHEMATICS	PRINTER
HPC	2608A	02608-90901	TECHNICAL	PRINTER
HPC	2613A/2617A/261	02618-90006	IPB	PRINTER
HPC	5055A	05055-90010	SERVICE	PRINTER
HPC	5055A	05055-90011	SERVICE	PRINTER
HPC	560A/1B/2A/5A	560A-9D	SERVICE	PRINTER
HPC	82905B	82905-90014	OPERATOR	PRINTER
HPC	9866A	09866-90000	SERVICE	PRINTER
HPC	9866A/B	09866-90001	SERVICE	PRINTER
HPC	9871A	09871-90000	INSTALLATION	PRINTER
HPC	9871A	09871-90030	OPERATOR	PRINTER
HPC	9871A	09871-90000	SERVICE	PRINTER
HPC	9871A	09871-90030	SERVICE	PRINTER
HPC	9876/11479A	09876-90020	SERVICE	PRINTER
HPC	9866A/B	09866-90031	SERVICE	PRINTER (2 COPIES)
HPC	9876	09876-90040	PROGRAM	PRINTER 240
HPC	562A	00560-9014	SERVICE	PRINTER MECHANISM
HPC	130	560A-9001	SERVICE	PRINTER MECHANISM (3 COPIES)
HPC	2608A	02608-90041	DIAGNOSTICS	PRINTER OPTION ROM
HPC	2608A	02608-90904	DIAGNOSTICS	PRINTER. PRINTED > 5/82
HPC	2100A/S 1000	12936-90003	SCHEMATICS	PRIV INT FENCE
HPC	9826/9836	09826-90075	SERVICE	PROCEDURE LIBRARY
HPC	2621	13220-91003	TECHNICAL	PROCESSOR
HPC	262XX	13220-91003	SCHEMATICS	PROCESSOR MODULE
HPC	1984	5952-0191D	CATALOG	PRODUCT CATALOG
HPC	1985	5954-01 68 D	CATALOG	PRODUCT CATALOG
HPC	85	00085-90002	SERVICE AND PARTS	PROGRAMMER
HPC	86/87	00087-90017	CE HANDBOOK	PROGRAMMING
HPC	12909B	24360-90001	SERVICE	PROMS
HPC	8011A	08011-90002	OPERATOR	PULSE GENERATOR
HPC	8011A	08011-90002	OPERATOR	PULSE GENERATOR
HPC	LASERJET FAMILY	5010-6358	TECHNICAL/SERVICE	QUICK REF. GUIDE FOR MOST MODELS
HPC	7914	5957-4205	SERVICE	QUICK REF. TROUBLESHOOTING GUIDE
HPC	9145	09145-90004	SERVICE	QUICK REFERENCE
HPC	9145	09145-90004	SERVICE	QUICK REFERENCE GUIDE
HPC	33449A	E0390	DERVICE	QUICK REFERENCE GUIDE
HPC	LASERJET II	E0789	TECHNICAL	QUICK REFERENCE GUIDE
HPC	2227A/2228A	02227-90045	PROGRAM	QUIETJET SERIES PRINTER
HPC	29402C	02940-90320	SERVICE	RACK CABINET
HPC	21MX M/E	24395-90001	OPERATOR	RAM MEMORY
HPC	98035A	98035-90000	SERVICE	REAL TIME CLOCK
HPC	12621A	12621-90008	SCHEMATICS	RECEIVE SYNC
HPC	2225A	02225-90007	SERVICE	REFERENCE
HPC	A600-2156	02156-90001	SERVICE	REFERENCE
HPC	A700-2137	02137-90001	SCHEMATICS	REFERENCE
HPC	12040C	12040-90022	TECHNICAL	REFERENCE FOR A-SERIES MUX
HPC	150	45640-90001	OPERATOR	REPLACEABLE PARTS
HPC	82901M/82902M	00085-90447	SERVICE	ROM MANUAL
HPC	9845	09845-92065	SERVICE	ROM PROGRAMMING
HPC	1000RTE	92084-90010	SERVICE	RTE 6 ONLINE GENERATOR
HPC	1000 RTE	92084-90009	PROGRAM	RTE 6 SYSTEM MANAGERS REFERENCE
HPC	1000 RTE	92084-90007	PROGRAM	RTE 6 UTILITY PROGRAMS REFERENCE
HPC	1000 RTE	92060-90005	PROGRAM	RTE ASSEMBLER
HPC	1000 RTE	92060-90005	PROGRAM	RTE ASSEMBLER REFERENCE
HPC	1000 RTE	92060-90013	PROGRAMMING	RTE BATCH SPOOL MONITOR
HPC	1000 RTE	22999-90054	SERVICE	RTE BATCH SPOOL MONITOR COURSE
HPC	1000 TRTE	92060-90023	SERVICE	RTE FORTRAN IV REFERENCE
HPC	1000 RTE	92001-93001	PROGRAM	RTE II PROGRAMMING AND OPERATING
HPC	1000 RTE	92001-93001	PROGRAM	RTE II PROGRAMMING AND OPERATING
HPC	1000 RTE	92060-90020	PROGRAM	RTE II/III ON LINE GENERATOR REF.
HPC	1000 RTE	92060-90014	PROGRAM	RTE INTERACTIVE EDITOR REFERENCE
HPC	2235	02235-90003	DIAGNOSTICS	RUGGEDWRITER 480 PRINTER
HPC	9195	9282-1007	INSTALLATION	SCAN JET PRINTER
HPC	9190	09190-90030	SERVICE	SCANJET
HPC	9190	09190-90005	OPERATOR	SCANJET USERS GUIDE
HPC	9190A	09190-90005	SERVICE	SCANJET USER'S GUIDE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
HPC		3495A	03495-90012	SERVICE	SCANNER
HPC		7595/7596A	07595-90000	SERVICE	SCHEMATICS
HPC		82906A	82906-90009	SERVICE	SCHEMATICS
HPC		9114	5957-6557	SERVICE	SECTION 5 OF 09121-90030
HPC		9122	5957-6559	SERVICE	SECTION 6 OF 09121-90030
HPC		2100	24395-90001	DIAGNOSTICS	SEMI-CONDUCTOR MEMORY
HPC		98036A	98036-90000	SERVICE	SERIAL I/O INTERF.
HPC		12587B	12587-90013	SERVICE	SERIAL MODEM INTF
HPC		150	45611-90002	OPERATOR	SERIES 100
HPC		9816	09816-90011	SERVICE	SERIES 200
HPC		33491	C2010-90939	OPERATOR	SERVICE INSTALLATION DIAGNOSTIC QUICK REFERENCE
HPC		A600-2156	02156-90002	SCHEMATICS	SERVICE AND INSTALLATION
HPC		A700-2137	02137-90003	SCHEMATICS	SERVICE AND INSTALLATION
HPC		10230C	10230-90906	SERVICE	SERVICE CLOCK
HPC		2564	02564-90907	TECHNICAL	SERVICE GUIDE
HPC		2564	02564-90913	OPERATOR	SERVICE HANDBOOK
HPC		2564	02564-90924	SERVICE	SERVICE HANDBOOK
HPC		C2007A 33471 33481	33481-90951	DIAGNOSTIC	SERVICE IPB INSTALLATION
HPC		33471 C2007A 33481	33481-90951	SERVICE	SERVICE IPB INSTALLATION
HPC		33481 33471 C2007A	33481-90951	OPERATOR	SERVICE IPB INSTALLATION
HPC		12531-60025	12531-90038	TECHNICAL	SERVICE MANUAL
HPC		7942/7946	09144-90030	SERVICE	SERVICE MANUAL
HPC		PORTABLE PLUS	45711-90053	OWNER'S MANUAL	SERVICE MANUAL
HPC		37201A	37201A-6A	SERVICE	SERVICE NOTE
HPC		37201A OPT 050	37201A-0	SERVICE	SERVICE NOTE 37201A OPTION 050
HPC		37203A	37203A-9A-S	SERVICE MANUAL	SERVICE NOTE CABLES IN AIR PLENUMS
HPC		6942A/43A	6942A-14/43A-6	SERVICE	SERVICE NOTE FAN SPEED CONTROL
HPC		1335A	1335A-17A	SERVICE	SERVICE NOTE FOR 1335A
HPC		37203A	37203A-10	SERVICE/OPERATOR	SERVICE NOTE FOR 37203A
HPC		37203A	37203A-0	SERVICE	SERVICE NOTE INDEX FOR 37203A
HPC		3421A	3421A-14	SERVICE	SERVICE NOTE TRANSIENT VOLT PROTECT
HPC		9807A	00095-90126	OPERATOR	SERVICE/INSTALLATION
HPC		2225	02225-90018	SERVICE	SERVICE/IPB/LOGIC
HPC		2100/1000	02100-90212	SERVICE	SHIFT-ROTATE INSTR
HPC		9000 SERIES 520	09040-90040	SERVICE	SITE PREPARATION MANUAL
HPC		2250	02250-90010	DIAGNOSTICS	SITE PREPARATION OCT 84
HPC		150	45621-90024	PROGRAM	SOFTWARE INSTRUCTIONS
HPC		1000 RTE	5955-2301E2213	PROGRAM	SOFTWARE STATUS BULLETIN
HPC		1000 RTE	HP1000.220.SUN	PROGRAM	SOFTWARE UPDATE NOTICE REV 2026
HPC		1000 RTE	HP1000.220.SUN	PROGRAMMING	SOFTWARE UPDATE NOTICE REV 2040
HPC		1000 RTE	HP1000.220.SUN	PROGRAM	SOFTWARE UPDATE NOTICE REV 2101
HPC		1000 RTE	HP1000.220.SUN	PROGRAM	SOFTWARE UPDATE NOTICE REV 2113
HPC		1000 RTE	5955-3257/2140	PROGRAM	SOFTWARE UPDATE NOTICE REV 2140
HPC		2932A	5953-6276	CATALOG	SPEC SHEET
HPC		2934A	5953-6278	SERVICE	SPEC SHEET
HPC		98720A	98720-90012	SERVICE	SRX GRAPHICS DEMO GUIDE
HPC		98256A/7A	5957-4369	OPERATOR	STATIC ZAP CAUTION9826/36
HPC		6113A	06113-90001	SERVICE	STB SERIES
HPC		9830A	09830-90002	OPERATOR	STRING VARIABLE ROM
HPC		5423A	05423-90027	INSTALLATION	STRUCT DYNAM ANALYZ
HPC		5423A	05423-90009	OPERATOR	STRUCT DYNAM ANALYZ
HPC		5423A	05423-90010	OPERATOR	STRUCT DYNAM ANALYZ
HPC		5423A	05423-90008	TECHNICAL	STRUCT DYNAM ANALYZ
HPC		7974A	07978-90005	SERVICE	SUBSYSTEM
HPC		2100/21MX	5951-7357	SCHEMATICS	SUPPORT
HPC		2621	13220-91002	SERVICE	SWEEP MODULE
HPC		262XX	13220-91002	SCHEMATICS	SWEEP MODULE
HPC		2100	02116-9016	OPERATOR	SYMB EDIT
HPC		12967A	12967-90001	SERVICE	SYNC COMM
HPC		12622A	12622-90008	TECHNICAL	SYNC DATA
HPC		1297A	12967-90001	SERVICE	SYNCHRONOUS COMMUNICATIONS
HPC		2100S	02100-90164	IPB	SYSTEM
HPC		2100S	02100-90162	TECHNICAL	SYSTEM
HPC		2615A	02615-90004	TECHNICAL	SYSTEM 055
HPC		2615A	02615-90013	TECHNICAL	SYSTEM 055
HPC		9000-835	92453-90017	DIAGNOSTIC	SYSTEM ADMINISTRATION BASICS
HPC		5477A	05477-90012	SERVICE	SYSTEM CONTROL
HPC		5478C	05478-90015	SERVICE	SYSTEM INTERFACE
HPC		5451C	05451-90565	SERVICE	SYSTEM SERVICE
HPC		5451B	05451-90186	SERVICE	SYSTEM SERVICE MANUAL
HPC		9830A	09830-90027	OPERATOR	SYSTEM TEST
HPC		9831A	09831-90031	SERVICE	SYSTEM TEST
HPC		9825A	09825-90031	DIAGNOSTICS	SYSTEM TEST BOOKLET
HPC		9830A	09830-90062	OPERATOR	SYSTEM TEST TAPE
HPC		9830A	09830-90026	PROGRAM	SYSTEM TEST TAPE
HPC		2753A	02753-9001	TECHNICAL	TALLY P-120
HPC		1000F	24998-13302	DIAG	TAPE
HPC		1000F	24998-13305	DIAG	TAPE
HPC		1000F	24998-13306	DIAG	TAPE
HPC		1000F	24998-13303	DIAGNOSTICS	TAPE
HPC		1000F	24998-13304	SERVICE	TAPE
HPC		9121D/S	5010-0305/0783	DIAGNOSTIC	TAPE
HPC		9121D/S	5010-0306/0983	SERVICE	TAPE
HPC		9831A	09831-90035	SERVICE	TAPE
HPC		9874A	09845-10074	OPERATOR	TAPE
HPC		1000	91711-90001	DIAGNOSTIC	TAPE AND MANUAL-7906H/91710
HPC		7970	07970-90887	DIAGNOSTICS	TAPE DRIVE
HPC		7970B/E	07970-90886	DIAGNOSTIC	TAPE DRIVE
HPC		9144A	09144-90030	DIAGNOSTIC	TAPE DRIVE
HPC		7974A	07974-90030	INSTALLATION	TAPE DRIVE SERVICE
HPC		7974A	07974-90001	SERVICE	TAPE DRIVE UNPACKING
HPC		9830	9162-0050	OPERATOR	TAPE IEEE
HPC		12597A-005	12597-90025	SERVICE	TAPE PUNCH INTERFACE
HPC		12926A	12926-90001	DIAGNOSTICS	TAPE PUNCH SUBSYSTEM
HPC		12597	12597-90031	SERVICE	TAPE PUNCH/READER
HPC		12597A	12597-90022	SERVICE	TAPE RDR I/F 2100
HPC		2737A/48A/58A	12597-90031	DIAGNOSTICS	TAPE READER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	12970A	12970-90001	IPB	TAPE SUBSYSTEM
HPC	12539B	12539-90011	SERVICE	TBG
HPC	LASERJET FAMILY	02686-9091-2	TECHNICAL	TECH REFERENCE MANUAL
HPC	2684	02684-90903	TECHNICAL/REFERENCE	TECHNICAL IPB
HPC	LASERJET II	33440-90905	OPERATOR	TECHNICAL REFERENCE MANUAL
HPC	LASERJET II	33440-90906	TECHNICAL	TECHNICAL/SERVICE MANUAL
HPC	2615	02615-90002	SERVICE	TERMINAL
HPC	2600A	02600-90001	DIAGNOSTICS	TERMINAL
HPC	262XX	13220-91000	TECHNICAL	TERMINAL
HPC	264X	02640-90185	SERVICE	TERMINAL CABLING
HPC	2635A-2639A	02635-90906	SCHEMATICS	TERMINAL DIAGNOSTIC
HPC	262X	13220-91033	SCHEMATICS	TERMINAL SCHEMATICS
HPC	1994	5091-8952EUS	DIAGNOSTICS	TEST & MEASUREMENT CATALOG
HPC	1993	5091-5200EUS	TECHNICAL	TEST AND MEASUREMENT CATALOG
HPC	VARIOUS	5952-0072D	CATALOG	TEST AND MEASUREMENT/COMPUTERS
HPC	VARIOUS	20944EVS	VECTRA SERVICE MANUAL	TEST AND MEASUREMENT/COMPUTERS
HPC	9835A/B	09835-90041	PROGRAM	TEST CARTRIDGE
HPC	12897A	02108-90021	DIAGNOSTICS	THEORY OF OPERATION
HPC	2671A/G	02670-90017	SERVICE	THERMAL PRINTER
HPC	2674A/13285A	02674-90001	TECHNICAL	THERMAL PRINTER
HPC	92171	92171-90000	INSTALLATION	TILT/SWIVEL STAND FOR HP9816 AND HP150
HPC	12539C	12539-90008	DIAGNOSTICS	TIME-BASE GEN
HPC	150-II	45847-90005	CATALOG	TOUCHSCREEN II USERS GUIDE W/MSDOS DISK
HPC	1000F	24998-13301	DIAG	TPAE
HPC	12531C	12531-90033	DIAGNOSTICS	TTY I/F 2100
HPC	150	45626-90005	OPERATOR	USE HP PC AS A TERMINAL
HPC	PAINTJET	03630-90001	SERVICE	USER'S GUIDE
HPC	3630	03630-90001	SERVICE	USERS GUIDE - HP PAINTJET COLOR GRAPHICS PRINTER
HPC	5423A	05423-90027	OPERATOR	USER'S HANDBOOK
HPC	33449	33449-90901	SERVICE	USERS MANUAL - LASERJET III
HPC	150	45422-90105	OPERATOR	USING PERSONAL CARD FILE/WITH REF CARD
HPC	5312A	5312A-4A	SERVICE	VERIFICATION USING HP85A
HPC	5420/5423A	05420-90041	SERVICE	VOLUME 1
HPC	5420/5423A	05420-90043	SERVICE	VOLUME 2
HPC	5420A/5423A	05420-90045	OPERATOR	VOLUME 3
HPC	7908	07908-90903	DIAGNOSTIC	WINCHESTER DISK
HPC	7908	07908-90901	OPERATOR	WINCHESTER DISK
HPC	7908	07908-90902	OPERATOR	WINCHESTER DISK
HPC	7911/7912	07912-90901	SERVICE	WINCHESTER DISK
HPC	7911/7912	07912-90902	SERVICE	WINCHESTER DISK
HPC	7911/7912	07912-90903	SERVICE	WINCHESTER DISK
HPC	85	00085-90154	OPERATOR	N/A
HPC	86	00086-90014	OPERATOR	N/A
HPC	110	00090-90021	SERVICE	N/A
HPC	150	45621-90023	OPERATOR	N/A
HPC	150	45626-90004	PROGRAM	N/A
HPC	150	45626-90002	SERVICE	N/A
HPC	1000	12943-90004	DIAGNOSTICS	N/A
HPC	1975	1975	CATALOG	N/A
HPC	1976	1976	CATALOG	N/A
HPC	1977	1977	CATALOG	N/A
HPC	1978	1978	CATALOG	N/A
HPC	1979	1979	CATALOG	N/A
HPC	1980	1980	CATALOG	N/A
HPC	1981	1981	CATALOG	N/A
HPC	1982	1982	CATALOG	N/A
HPC	1983	1983	CATALOG	N/A
HPC	1986	1986	CATALOG	N/A
HPC	1987	1987	CATALOG	N/A
HPC	1988	1988	CATALOG	N/A
HPC	1989	1989	CATALOG	N/A
HPC	2100	5951-4423	DIAGNOSTIC	N/A
HPC	2250	25580-90001	DIAGNOSTICS	N/A
HPC	2250	25580-90001	DIAGNOSTICS	N/A
HPC	2250	02250-90011	INSTALLATION	N/A
HPC	2250	25595-90001	PROGRAMMING	N/A
HPC	2250	02250-90001	SERVICE	N/A
HPC	2250	02250-90012	TECHNICAL	N/A
HPC	2607	12987-90004	SERVICE	N/A
HPC	2630	02631-90917	DIAGNOSTICS	N/A
HPC	2630	02631-90918	OPERATOR	N/A
HPC	2630	02631-90919	SCHEMATICS	N/A
HPC	7925	07925-90903	SERVICE	N/A
HPC	7970	07970-90886	SERVICE	N/A
HPC	9810	09810-90000	SERVICE	N/A
HPC	9826	09826-90030	OPERATOR	N/A
HPC	9826	09826-90000	TECHNICAL	N/A
HPC	9835	09835-90030	DIAGNOSTIC	N/A
HPC	9835	09835-91030	OPERATOR	N/A
HPC	9845	09845-91085	OPERATOR	N/A
HPC	9920	09920-90005	INSTALLATION	N/A
HPC	9920	09920-90000	SERVICE	N/A
HPC	12892	12892-90005	SCHEMATICS	N/A
HPC	12908	12908-90013	DIAGNOSTICS	N/A
HPC	98780	98780-90030	SERVICE	N/A
HPC	98780	98780-90039	SERVICE	N/A
HPC	2641895	09135-90000	OPERATOR	N/A
HPC	2641895	09134-90000	SERVICE	N/A
HPC	2641895	09134-90032	SERVICE	N/A
HPC	1000/RTE-IVB	92068-90001	DIAGNOSTIC	N/A
HPC	1000L	02103-90005	DIAGNOSTICS	N/A
HPC	1000L	02145-90003	DIAGNOSTICS	N/A
HPC	1000L	02145-90001	SERVICE	N/A
HPC	1000L	24397-90001	SERVICE	N/A
HPC	1000M/E	12977-90002	INSTALLATION	N/A
HPC	12750B	12750-93001	SERVICE	N/A
HPC	12751A	12751-90001	SERVICE	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HPC	12752B	12752-93001	SERVICE	N/A
HPC	12753A	12753-90001	SERVICE	N/A
HPC	12757A	12757-90001	SERVICE	N/A
HPC	12769A	12769-93001	SERVICE	N/A
HPC	12821A	12821-90002	SERVICE	N/A
HPC	12897A	02108-90021	TECHNICAL	N/A
HPC	12930A	12930-90001	DIAGNOSTIC	N/A
HPC	1310A/1311A	5955-2418	SERVICE	N/A
HPC	1335A	01335-90905	OPERATOR	N/A
HPC	2100 SERIES	5951-4498	DIAGNOSTICS	N/A
HPC	2100A	02100-90002	DIAGNOSTICS	N/A
HPC	2100A	02100-90003	MAINTENANCE	N/A
HPC	2100A/S	12907-90003	DIAGNOSTICS	N/A
HPC	2100S	02100-90004	SERVICE	N/A
HPC	2100S	02100-90164	SERVICE	N/A
HPC	21MX	02108-90017	DIAGNOSTICS	N/A
HPC	21MX	13197-90002	DIAGNOSTICS	N/A
HPC	21MX	02108-90006	OPERATOR	N/A
HPC	21MX	02108-90006	SCHEMATICS	N/A
HPC	21MX	02108-90004	TECHNICAL	N/A
HPC	21MX E-SERIES	02109-90007	SERVICE	N/A
HPC	21MX E-SERIES	02109-90002	INSTALLATION	N/A
HPC	2392A	02390-90003	DIAGNOSTIC	N/A
HPC	25581A	25581-90001	SCHEMATICS	N/A
HPC	25582A	25582-90001	SERVICE	N/A
HPC	256X	02564-90905	SERVICE	N/A
HPC	2608A	02608-90905	SCHEMATICS	N/A
HPC	2621B	02620-90062	SERVICE	N/A
HPC	2621B/2629L	02620-90069	OPERATOR	N/A
HPC	2621P	02620-90002	OPERATOR	N/A
HPC	2621P	02620-90001	SCHEMATICS	N/A
HPC	262XX	13220-91300	SCHEMATICS	N/A
HPC	2630B/2631	02631-90910	OPERATOR	N/A
HPC	2748B	02748-90032	SERVICE	N/A
HPC	2753A	02753-9009	SERVICE	N/A
HPC	2892A/2893A	5727	SERVICE	N/A
HPC	2930/2932A	02932-90001	CATALOG	N/A
HPC	2932A	02932-90006	SERVICE	N/A
HPC	2932A	02932-90007	SERVICE	N/A
HPC	300 SERIES	98561-90020	INSTALLATION	N/A
HPC	300 SERIES	98561-90030	VERIFICATION/SYSTEMS	N/A
HPC	3052A	03052-90003	APPLICATIONS	N/A
HPC	3052A	03052-90004	TECHNICAL	N/A
HPC	3052A/9825A	03052-90030	SERVICE	N/A
HPC	5050B	05050-9033	SCHEMATICS	N/A
HPC	5050B	05050-90021	SERVICE	N/A
HPC	59306A	59306-90001	DIAGNOSTICS	N/A
HPC	59401A	59401-90002	CATALOG	N/A
HPC	7221B	07221-90012	SERVICE	N/A
HPC	7310A	07310-90000	SCHEMATICS	N/A
HPC	7310A	07310-90051	TECHNICAL	N/A
HPC	82939A	82939-90012	SERVICE	N/A
HPC	85/2250	02250-90005	SERVICE	N/A
HPC	9121D/S	09121-90030	DIAGNOSTICS	N/A
HPC	9121D/S	09121-90000	SERVICE	N/A
HPC	9125A	09125-90008	SERVICE	N/A
HPC	9125S	09125-90030	OPERATOR	N/A
HPC	92900B	92900-90003	SERVICE	N/A
HPC	9825A	09825-90011	DIAGNOSTIC	N/A
HPC	9825A	09825-90022	PROGRAM	N/A
HPC	9825A	09825-90030	PROGRAM	N/A
HPC	9825A	09825-90043	SERVICE	N/A
HPC	9825A/B	09825-90020	EXPANDED BLOCK DIAG	N/A
HPC	9825A/B	09825-90030	OPERATOR	N/A
HPC	9825A/B	09825-90011	PROGRAM	N/A
HPC	9825A/B	09825-90025	PROGRAM	N/A
HPC	9825A/B	09825-91030	PROGRAM	N/A
HPC	9825A/B	09825-90024	SERVICE	N/A
HPC	9825A/B	09825-90000	TECHNICAL	N/A
HPC	9826/36	09826-90000	PROGRAM	N/A
HPC	9826/9836	09826-90009	PROGRAM	N/A
HPC	9830A	09830-90030	OPERATOR	N/A
HPC	9835A	09835-90005	PROGRAMMING	N/A
HPC	9845B	09845-91040	DIAGNOSTICS	N/A
HPC	9845B	09845-91030	SERVICE	N/A
HPC	9845B	09845-91030	SERVICE	N/A
HPC	9845B/C	09845-91030	SERVICE	N/A
HPC	9864A	09864-90001	DIAGNOSTIC	N/A
HPC	9868A	09845-90030	OPERATOR	N/A
HPC	98770A	98770-90030	SERVICE	N/A
HPC	98780A	98780-90030	SERVICE	N/A
HPC	98786A	98786-90030	SERVICE	N/A
HPC	9885M/S	09885-90007	INSTALLATION	N/A
HPC	9885M/S	09885-90031	INSTALLATION	N/A
HPC	9885M/S	09885-90010	SERVICE	N/A
HPC	9885M/S	09885-90031	SERVICE/SCHEMATICS	N/A
HPC	HPIB CTRL TAPE	05420-10023	DIAG	N/A
HPC	IEEE	488-1978	SERVICE	N/A
HPC	LASER II	33440-90904	TECHNICAL	N/A
HPC	VECTRA	45935-9002	K	N/A
HUGHES	105	N/A	E	N/A
HUGHES	3000	N/A	R	N/A
HUGHES	5000	N/A	R	N/A
HUGHES	104E/D	N/A	I	N/A
HUMPHREY	CATALOG	N/A	F	GYROS
HUMPHREY	CATALOG	N/A	T	GYRO'S
HUMPHREY	FRO2	N/A	T	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
HY-CAL	200 SERIES	N/A	T	OPERATION W/SHEMATICS
HY-CAL	ASD-9058	N/A	T	OPERATION W/SHEMATICS
HY-CAL	ASD-9058	N/A	T	OPERATION W/SHEMATICS
HY-CAL	ASD-9058	N/A	T	OPERATION W/SHEMATICS
HY-CAL	ESD-9050-A	N/A	N/A	OPERATION W/SHEMATICS
HY-CAL	SA-740-A/B/C	N/A	X	OPERATION/CALIBRATION
HYCAM	400 FT.	N/A	C	N/A
HYCONE	615	N/A	H	N/A
HYDAC	TOWER-MATIC-E	N/A	SERVICE	SERVICE/CALIBRATION
HYDRO DYNAMICS	H-101	N/A	SCHEMATICS	N/A
HYP	H1-128/36	H1-128/36	X	N/A
HYP	HI-120	HY-A1-33-936	X	N/A
HYPERION	HY-25-40-1.5	N/A	U	2 MANUALS
HYPERION	HI 150-591	N/A	X	N/A
HYPERION	HY-25-40-1.5	N/A	U	N/A
IBM	402-403	225-6154-7	OPERATOR	AUTO PUNCHES
IBM	PS2-80	68X2287	SERVICE	AWAITING 68X2221 TO UPDATE
IBM	8550 8560 8580	00F9619	REFERENCE	AWAITING 68X2256 TO UPDATE
IBM	PS2-80	00F9504	CATALOG	AWAITING 68X2256 TO UPDATE
IBM	GRAPH./ COMPACT	6280079	OPERATOR	GRAPHICS/ COMPACT PRINTER MAINT.
IBM	PROPRINTER	PN6328945	MAINTENANCE	GUIDE TO OPERATIONS
IBM	X24E/XL24E	SA34-2106-0	Q	GUIDE TO OPERATIONS
IBM	5201-001/002	GA23-1034-0	Q	GUIDE TO OPS - SHEETFEED OPTION
IBM	PS/2	80X0890	TECHNICAL	HARDWARE MAINTENANCE REFERENCE
IBM	7BM6130	CMT12	SERVICE	IBM COLOR MONITOR
IBM	5151/5153	CMT4	SCHEMATICS	IBM MONOCHROME
IBM	8570	64F3993	OPERATOR	IPB SERVICE HANDBOOK
IBM	4039	SA40-0728-00	IPB	LASER PRINTER MODEL 4039
IBM	5160	6936808	SERVICE	MANUAL AT NASA B1229T (RM 106)C LADSON
IBM	5155	6936572	TECHNICAL	MANUAL AT NASA-1229T(RM 106)C LADSON
IBM	5155	6936573	TECHNICAL	MANUAL AT NASA-1229T(RM 106)C LADSON
IBM	4039	SA40-0800-00	SERVICE	MANUAL FOR LEXMARK 4039
IBM	5175	5175	TECHNICAL	OPERATOR/PROGRAM GUIDE
IBM	PROPRINTER II&XL	N/A	SERVICE	OPERATORS
IBM	CS9000	GC22-9199-1	DIAGNOSTIC	PART 1
IBM	CS9000	GC22-9200-2	OPERATOR	PART 2
IBM	8570	91F8635	DIAGNOSTIC	POST CODES AND PARTS LIST
IBM	5218 5228	6081977	CATALOG	PRINTER
IBM	5218 5228	6081979	DIAGNOSTICS	PRINTER
IBM	5218 5228	6373033	IPB	PRINTER
IBM	9000	GC22-9192-1	OPERATOR	PROBLEM ISOLATION
IBM	X24/XL24	SC31-3841-0	TECHNICAL	PROPRINTER
IBM	XL24E	23F4299	Q	PROPRINTER FAMILY TECH REFERENCE
IBM	PS2 DISPLAY	6280206	REFERENCE UPDATE	PS2 DISPLAY INSTALLATION AND TESTING
IBM	5201-001/002	CP30	SERVICE	SAMS
IBM	5150	CSCS2-08914	SEE EPA 780	SAMS COMPUTER FACTS
IBM	5154	5154001	SERVICE	SAMS COMPUTER FACTS
IBM	170	N/A	U	SERIES
IBM	210	N/A	U	SERIES
IBM	270	N/A	ENGINEER	SERIES
IBM	615	N/A	SERVICE	SERIES
IBM	PS4079	N/A	CATALOG	SERVICE
IBM	67/68	225-6574-00	REFERENCE UPDATE	SIGNAL UNIT
IBM	5170-AT	1502494	SERVICE	TECHNICAL DESCRIPTION
IBM	4039	SA40-0740-01	SERVICE	TECHNICAL REFERENCE FOR LEXMARK 4039
IBM	TOOLS	S1230438-3	MAINTENANCE	TOOLS/TEST EQUIP.
IBM	TOOLS	S1310037-1	OPERATOR	TOOLS/TEST EQUIP.
IBM	3299	N/A	IPB	TROUBLE SHOOTING TREE ONLY
IBM	DOS	6936752	TECHNICAL	VERSION 2.00
IBM	5170-AT	1502493	OPERATOR	VOL.I
IBM	5170-AT	6361704	OPERATOR	VOL.II
IBM	419	124-71110-0	TECHNICAL	N/A
IBM	523	229-4009-1	SERVICE	N/A
IBM	523	PARTS CATALOG	U	N/A
IBM	5152	REF	TECHNICAL REFERENCE	N/A
IBM	5218	N/A	IPB	N/A
IBM	211 & 212	N/A	X	N/A
IBM	402/403/419	225-6180-4	TECHNICAL	N/A
IBM	402-403	S124-0022-0	TECHNICAL	N/A
IBM	402-403-419	225-5673-4	SERVICE	N/A
IBM	405/416	22-3179-4	SERVICE	N/A
IBM	514/519/523	229-4009-0	SCHEMATICS	N/A
IBM	67/68	225-6574-0	SCHEMATICS	N/A
IBM	CS9000	GC22-9192-1	SERVICE	N/A
IBM	CS9000	GC22-9186-2	TECHNICAL	N/A
IBM	PROPRINTER	SC31-2587-3	Q	N/A
IBM	PS/2	68X2222	INSTALLATION	N/A
IBM	PS/2 50/60	68X2224	REFERENCE SUPPLEMENT	N/A
ICOM	IC-R71	N/A	N/A	N/A
ICS	4885A	N/A	B	INSTRUCTION MANUAL
ICS	S386/33-2 MEG	N/A	N/A	OPERATIONS MANUAL
ICS	4884	N/A	N/A	N/A
IDEAL AEROSMITH	18-53-4A/D	N/A	N/A	TACHOMETER TESTER
IDEAL AEROSMITH	1406	N/A	N/A	N/A
IDEAL AEROSMITH	6098	N/A	SERVICE	N/A
IDEAL AEROSMITH	26586	N/A	W	N/A
IDEAL AEROSMITH	26586	N/A	N/A	N/A
IDEAL AEROSMITH	10-A1-31	N/A	W	N/A
IDEAL AEROSMITH	1258S	N/A	R	N/A
IDM	N/A	N/A	X	N/A
IDR	5415	CAT1011	X	CAT 1011 SERVICE MANUAL
IEC	F74-77	N/A	TECHNICAL	N/A
IED	CS0-300-1	N/A	TECHNICAL	N/A
IEL	INTELLEC	98386B	TECHNICAL	DEVELOPMENT SYSTEM
IEL	635/635A	9800298-05	DIAGNOSTICS	SCHEMATICS
IEL	SBC-80/10B	983119	TECHNICAL	SCHEMATICS-SERVICE FOR CPU BOARD
IEL	SBC-519	980385	SERVICE	SCHEMATICS-SERVICE FOR I/O BOARD TTLPGP

**Exhibit D  
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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
IEL	012B	112748	SERVICE	N/A
IEL	028C1056C/012C	145183-001	DIAGNOSTIC	N/A
IEL	ICE-30/80	98-386B	TECHNICAL	N/A
IEL	SBC 80/10B	9803119-02	TECHNICAL	N/A
IEM	35034	5090-0211	TECHNICAL	5.25" WINCHESTER DRIVES
IER	C420	044-1042-00	N/A	SERVICE/SCHEMATICS/IPB
IER	T420/T425	023-1020-00	N/A	SERVICE/SCHEMATICS/IPB
IET LABS	HARS SERIES	N/A	OPERATOR	M00869/RESISTANCE DECADE
IET LABS	HARS SERIES	N/A	SCHEMATICS	M00870/RESISTANCE DECADE
IET LABS	HARS SERIES	N/A	N/A	M00871/RESISTANCE DECADE
IFD	4600 B	IFD-4600B	N/A	MAGNETIC TAPE SYS.
IFR	A-7550	N/A	X	OPERATION MANUAL
IFR	A-7550	N/A	TECHNICAL	SERVICE MANUAL
III	PG-2	N/A	SERVICE	N/A
IKE	DM-2060	2060(MC1)	B	OPERATION MANUAL
IKE	DM-2060 (CS1)	2060 (CS1)	X	OPERATION MANUAL
IKE	C/T20A C/T20D	C/T20D	OPERATION	SERVICE AND ADJUSTMENTS
IKE	2050	DM2050-SP-1	OPERATION	SERVICE SCHEMATICS
ILIKON	410	N/A	SERVICE WITH SCHEMATICS	N/A
ILX	LDE-3722	N/A	N/A	SERVICE WITH SCHEMATICS
ILX LIGHTWAVE	LDC-3752	N/A	INSTRUCTION	INSTRUCTION MANUAL
ILX LIGHTWAVE	LDX-3412	N/A	OPERATION/SERVICE	INSTRUCTION MANUAL
ILX LIGHTWAVE	LDX-3620	N/A	K	USE AND SERVICE
ILX LIGHTWAVE CORP	LPX-3412	N/A	N/A	OPERATION/SERVICE
IMAGE MAG. INC.	IMI 3000	N/A	E	N/A
IMAGE TECH. METHODS	ISOMAT 600	N/A	OPERATOR	INSTRUCTION MANUAL
IMC	300	N/A	SERVICE	SPECIFICATIONS
IME	5000	5000A	A	VIDEO PRINTER
IME	5000	5000B	E	VIDEO PRINTER
IMPAC	CATALOG	N/A	N/A	SHOCK MACHINES
INCOR	U34	N/A	X	INSTRUCTION
INDUST. TEST EQ. CO.	2506-400	N/A	C	MAINTENANCE MANUAL
INDUSTRIAL COMPANY	737-A	N/A	X	N/A
INDUSTRIAL INST.	RS-5	N/A	X	N/A
INDUSTRIAL TEST EQ.	200AB	N/A	X	N/A
INET INC.	RR-28-100	N/A	X	N/A
INET INC.	RR-28-45	N/A	X	N/A
INFICON	XTC	N/A	X	N/A
INFOTONICS	SA-1500-SA-7500	N/A	G	2 MANUALS
INFOTONICS	1300A	N/A	G	SCHEMATICS
INFRAMETRICS	210	N/A	G	INSTRUCTION
INFRAMETRICS	525	N/A	G	INSTRUCTION
INFRAMETRICS	210	N/A	T	MAINTENANCE
INFRARED INDUSTRIES	463	N/A	G	INSTRUCTION
INFRARED INDUSTRIES	463	N/A	G	INSTRUCTION
INFRARED INDUSTRIES	463	N/A	G	INSTRUCTION
INFRARED INDUSTRIES	463	N/A	X	INSTRUCTION
INFRARED INDUSTRIES	IR-463	N/A	G	INSTRUCTION
INFRARED INDUSTRIES	IR-463	N/A	G	INSTRUCTION
INFRARED INDUSTRIES	IR-463	N/A	N/A	INSTRUCTION
INFRARED INDUSTRIES	IR-463	N/A	N/A	INSTRUCTION
INFRARED INDUSTRIES	464	N/A	G	OPERATION
INFRARED INDUSTRIES	101A-F	N/A	G	OPERATION/MAINTENANCE
INFRARED INDUSTRIES	436	N/A	G	N/A
INFRARED INDUSTRIES	461	N/A	G	N/A
INFRARED INDUSTRIES	600	N/A	G	N/A
INGERSOLL-RAND	EP/HP/HXP 40 SE	N/A	X	OPERATORS MANUAL FOR EP/HP/HXP SERIES
INGERSOLL-RAND	EP/HP/HXP 40 SE	N/A	X	PARTS LIST
INLAND CONTROLS	800A/500A	N/A	X	2 MANUALS
INLAND CONTROLS	800S	N/A	B	2 MANUALS
INLAND CONTROLS	60-IC-500	N/A	R	3 MANUALS
INLAND CONTROLS	823	N/A	B	DC AMP
INLAND CONTROLS	1500CP	N/A	X	DC AMP
INLAND CONTROLS	800-1-5-70	N/A	X	RATE TABLE
INLAND CONTROLS	800	N/A	X	N/A
INNOVEX	500	N/A	B	SPECIFICATION
INNOVEX	550	N/A	X	SPECIFICATION
INNOVEX	600	N/A	N/A	SPECIFICATION
INPAC	301	N/A	TECHNICAL MANUAL	N/A
INRAD	2-015	N/A	X	OPERATORS/SERVICE Q-SWITCH DRIVER
INRAD INC	N-2117	N/A	X	ALIGNMENTS
INSTR. CORP. OF AM.	RECOR DETTE-4	N/A	N/A	N/A
INSTR. CORP. OF AM.	TYPE-M	N/A	R	N/A
INSTRON	3250	N/A	T	ROTARY RHEOMETER
INSTRON	G-51 SERIES	N/A	T	STRAIN GAGE
INSTRULAB	4200	N/A	T	INSTRUCTION
INSTRULAB	4202	N/A	K	INSTRUCTION
INSTRULAB	4202	N/A	X	INSTRUCTION
INSTRULAB	2000	N/A	X	MAINTENANCE
INSTRULAB	2000	N/A	T	OPERATION
INSTRULAB	4200	N/A	T	N/A
INT. VIDEO CORP.	IVC-800	N/A	K	SERIES
INT. VIDEO CORP.	IVC-4100	N/A	K	N/A
INT. VIDEO CORP.	IVC-900	N/A	N/A	N/A
INT. VIDEO CORP.	IVC-X815/816	N/A	Q	N/A
INTELLIGENT INTERFACES	MICROPLOT 80B	N/A	Q	REFERENCE MANUAL
INTELLIGENT SYSTEMS	8000/8300/8900	N/A	V	1 MAINTENANCE & 1 USERS
INTELLIGENT SYSTEMS	8001	N/A	Q	N/A
INTER NAV	LORAN C	N/A	OPERATION	MAP
INTERFACE INC.	I2	N/A	N/A	N/A
INTERFACE SYSTEMS	SERIES 800	N/A	X	INSTALLATION & OPERATION
INTERFACE SYSTEMS	800	N/A	X-Q	OPERATION
INTERFACE TECHNOLOGY	488	N/A	T	OPERATOR'S MANUAL
INTERNATIONAL DATA	W115	N/A	T	N/A
INT'L TECHNICAL	2000	N/A	K	CHECK-OUT PROCEDURE
INTL. INSTRUMENTS	4000-2100J	N/A	Q	CALIBRATION PROCEDURE
INTL. INSTRUMENTS	2500	N/A	T	INSTALLATION



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
INTL. INSTRUMENTS	9261/2/3/4	N/A	X	INSTRUCTION
INTRA COMPUTER	SAM	N/A	E	OPERATIONS
INTRONICS	DCS	N/A	USERS MANUAL	N/A
INVERTRON	8440-620	N/A	N/A	INSTRUCTION
IO TECH	IEEE 488 EXTEND.	N/A	SERVICE	SCHEMATICS ARE PROPRIETARY
IO TECH	HDC488	N/A	TECHNICAL	USERS MANUAL
IOG	ALPHA 10H/10.5H	00703600-000	TECHNICAL	ALPHA 10H/10.5H SERVICE MANUAL
IOG	ALPHA 10H/10.5H	00701300-000	SERVICE	ALPHA 10H/10.5H TECHNICAL MANUAL
IOG	ALPHA 10H/20H	739900	SERVICE	ALPHA 10H/20H DISK DRIVES SERVICE
IOG	ALPHA 20H	00760600-001	USERS	ALPHA 20H TECHNICAL MANUAL
IOG	DUAL44	1120400	INSTALLATION	BERNOULLI BOX II 44 SUBSYSTEMS
IOG	BERNOULLI BOX	00427800-003	SERVICE	BERNOULLI BOX USERS MANUAL
IOG	BERNOULLI BOXII	635000	SERVICE	BERNOULLI BOXII SERVICE MANUAL
IOG	BETA-5	00291100-000	SERVICE	BETA-5 SERVICE MANUAL
IOG	BETA-5	00200100-004	SERVICE	BETA-5 TECHNICAL MANUAL
IOG	BETA-20L	1026100	SERVICE	CARTRIDGE DISC DRIVE W/SCSI CTRLR
IOG	DISK SUBSYSTEM	00767100-000	SERVICE	EIGHT-INCH CARTRIDGE DISK SERVICE
IOG	PC0	00433700-04	USERS	HOST ADAPTER BOARD INSTALLATION GUIDE
IOG	PC1	00420800-001	TECHNICAL	HOST ADAPTER BOARD PC1
IOG	A120H/HE A220H	007769-001	TECHNICAL	INFORMATION ON MODEL 120 & 220 DRIVES
IOG	PC2/PC2B	407402	SERVICE	INTERFACE PCB MANUAL
IOG	ALPHA 10/10.5	310300	SERVICE	OEM DISK STORAGE SUBSYSTEM
IOG	ALPHA 10/10.5	00118100-001	TECHNICAL	OEM DISK STORAGE SUBSYSTEM
IOG	PC2/PC2B	00408500-00	USERS	PC2/PC2B HOST ADAPTER BOARD
IOG	TRANSPORTABLE	EN001200	SERVICE	PORTABLE/TRANSPORTABLE SERVICE MANUAL
IOG	ALPHA-10H/20H	739900	SERVICE	SERVICE MANUAL
IOG	BERNOULLI PLUS	731400	TECHNICAL	SERVICE MANUAL
IOG	MAC PLUS	731300	USERS	SERVICE MANUAL
IOG	BERNOULLI BOXII	1120400	TECHNICAL	SERVICE MANUAL BERNOULLI BOXII/44
IOG	BETA20	635001	SERVICE	SERVICE MANUAL FOR APM/IBM BETA20 SYS
IOG	TI	00423800-001	SERVICE	TI HOST ADAPTER BOARD
IOG	TRANSPORTABLE	EN009700	Q-X	TRANSPORTABLE SERVICE MANUAL SUPPLEMENT
IOL	LP4000 + LP3700	LP4000	Q-X	PLOTTER
IOLINE	LP4000	N/A	INSTRUCTION	MAINTENANCE MANUAL
IOLINE	LP4000	N/A	SERVICE	OPERATOR'S MANUAL
IOTE	IEEE488	IEEE488	N/A	488 ANALYZER
IOTECH	DIGITAL488	N/A	TECHNICAL	INSTRUCTION MANUAL
IOTECH	ANALYZER 488	N/A	N/A	USERS MANUAL
IOTECH	DAC 488	N/A	TECHNICAL	USER'S MANUAL
IOV	2600	2600	TECHNICAL	FORMATTER/CONTROLLER
IOV	2600 SERIES	2600	SERVICE	FORMATTER/CONTROLLER
IOV	1050	00-10001	SERVICE	TAPE TRANSPORT OPR+MAINT
IOV	TDF 4050	5050	OPERATOR	USE WITH IOV SERIES 1050
IOV	1050	00-10053	OPERATOR	N/A
IOV	4050	4050	OPERATOR	N/A
IOV	4050	00-10003A	SERVICE	N/A
IOX	SIMCHECK	SIMCHECK	G	OWNER'S MANUAL
IOX	RAMCHECK	RAMCHECK	N/A	USER GUIDE FOR RAMCHECKER SPEED MODUAL
IR SOURCES	2400	N/A	G	DATA SHEET
IRCON	6000	N/A	T	INSTALLATION/OPERATION
IRCON	BCH	N/A	T	OPERATION
IRCON	DIGIPAK	N/A	H	OPERATION
IRCON	DIGIPAK	N/A	H	OPERATION
IRCON	SERIES 30	N/A	G	OPERATION
IRCON	SERIES 30	N/A	G	OPERATION
IRCON	SERIES 30	N/A	T	OPERATION
IRCON	SERIES 300	N/A	G	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 300	N/A	T	OPERATION
IRCON	SERIES 60	N/A	G	OPERATION
IRCON	SERIES 600	N/A	T	OPERATION
IRCON	SERIES 600	N/A	T	OPERATION
IRCON	SERIES 70	N/A	A	OPERATION
IRCON	SERIES 70	N/A	A	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	SERIES 70	N/A	T	OPERATION
IRCON	DTI	N/A	B	N/A
IRCON	DTI 30460	N/A	G	N/A
IRCON	DTI-30	N/A	T	N/A
IRD	601	N/A	E	N/A
IRD	652	N/A	O	N/A
ISOMET	1201	N/A	INSTALLATION	INSTRUCTION
ISOMET	TVM-100	N/A	OPERATOR	INSTRUCTION
ISOR	COMPUTER PWR MO	ISOR 1	SERVICE	PWR LINE CONDITIONER
ITA	IDS-560	9000-000-951	OPERATOR	IMPACT PRINTER
ITA	PRISM 80/132	9000-02-806	SERVICE	IMPACT PRINTER
ITA	P-80/132	9000-004-355	OPERATOR	N/A
ITD	70	29-261	SERVICE	N/A
ITD	74	29-300R04	OPERATOR	N/A
ITD	74	29-300R04	SCHEMATICS	N/A
ITD	74-70-80	29-261R03	X	N/A
ITEA	3000	3000	X	PCB-3002 SERIAL CONTROLLER SCHEMATIC
ITHACO	450	N/A	X	3 SERVICE MANUALS
ITHACO	481	N/A	X	3 SERVICE MANUALS
ITHACO	4110	N/A	X	MANUALS
ITHACO	399	N/A	OPERATION/SE RVIC	OPERATION/MAINTENANCE
ITHACO	4302	N/A	X	OPERATION/SERVICE
ITHACO	353	N/A	X	SERVICE MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ITHACO	393	N/A	E	SERVICE MANUAL
ITHACO	395	N/A	N/A	SERVICE MANUAL
ITHACO	P SERIES	N/A	SERVICE	SERVICE MANUAL
ITHACO	397EO	N/A	X	N/A
ITHACO	IPS112	N/A	TECHNICAL	N/A
ITL	AG0640	999467-010	TECHNICAL SCHEMATICS	2 COPIES
ITL	CT260	REF	TECHNICAL	2400 SERIES
ITL	QUADJET	978000-034	P	8001G QUADJET/MICROFAZER INTERFACE
ITL	3800 & 8800	999440-031	PROGRAM	ADDENDUM TO MAINTENANCE MANUAL
ITL	AG0640	999467-010	SEE ITL 920	ADVANCED GRAPHICS
ITL	AG0640	999467-010	SEE ITL 931	ADVANCED GRAPHICS
ITL	4100	999465-010	OPERATOR	COLOR TERMINAL
ITL	4100	999465-010	OPERATOR	COLOR TERMINAL
ITL	CT260	REF	SERVICE	COLOR TREND 210
ITL	HIRES GRAPHICS	999287	K	HIGH RESOLUTION GRAPHICS F8001R
ITL	2400	999379-010	SERVICE	MAINTENANCE
ITL	E20FRA V80	998023-010	ENGINEERING	PROCEDURES AND SCHEMATICS V80 SERIES
ITL	F8001R	CSR-978000-128	OPERATORS	SUPPLEMENT DOCUMENTATION
ITL	8800/3800	999440-030	SERVICE	TECHNICAL SCHEMATICS
ITL	8800/3800	999440-031	SERVICE	TECHNICAL SCHEMATICS
ITL	2400	999379-020	OPERATOR	N/A
ITL	4100	999466-010	OPERATOR	N/A
ITL	4100	999465-010	TECHNICAL SCHEMATICS	N/A
ITL	8800/3800	990440-030	SERVICE	N/A
ITL	8800/3800	999439-040	TECHNICAL SCHEMATICS	N/A
ITL	AG0640	999467-010	SERVICE	N/A
ITL	F8001G	999203-020	TECHNICAL	N/A
ITL	FASTDISK-512	999418	ENGINEERING	N/A
ITM	201/M	N/A	E	INC. 201MGH/600/DS-20
ITOH	8510	N/A	T	MANUAL
ITT POMONA	CATALOG	N/A	X	TEST ACCESSORIES
IVAC	811/821/817/818	N/A	SERVICE	SERVICE
IVIE ELECTRONICS	IE-10A	N/A	SERVICE	MANUAL
IWAT	DS-6121	B544-726151	OPERATOR	DIGITAL STORAGE SCOPE
IWAT	SS-0012	L39701-911322	SERVICE	GFE 100 MHZ SCOPE PROBE
IWAT	SS-0012	L39701-911322	SERVICE	GFE 100 MHZ SCOPE PROBE
IWAT	SS-57110	G1971-712201	SERVICE MANUAL	GFE 100MHZ SCOPE
IWAT	SS-5711D	G1971-712201	K	GFE 100MHZ SCOPE
IWAT	SS-5710D	D662-813500	SERVICE	GFE 60MHZ SCOPE
IWAT	SS-5710D	D739-914500	SERVICE	GFE 60MHZ SCOPE
IWAT	S-0011L	K34251-9111121	OPERATOR	GFE 60MHZ SCOPE PROBE
IWAT	S-0011L	L35351-9141321	OPERATOR	GFE 60MHZ SCOPE PROBE
IWAT	DS-6121A	F1127-913121L	OPERATOR	GFE DIGITAL STORAGE SCOPE
IWAT	DS-6121/A	B544-726151L	OPERATOR	N/A
IWATSU	DS-6121/DS-6121A	N/A	K	2 MANUALS
IWATSU	SS-5321	N/A	K	2 MANUALS
IWATSU	SS-5702	N/A	K	2 MANUALS
IWATSU	SS-5710 D	N/A	K	2 MANUALS
IWATSU	SS-5711	N/A	K	INSTRUCTION MANUAL
IWATSU	SS-5802	N/A	X	INSTRUCTION MANUAL
IWATSU	SS-00116/0011	N/A	K	PROBE MANUAL
IWATSU	55-6122	N/A	X	SERVICE MANUAL
IWATSU	SS5710	N/A	X	N/A
J OMEGA	21A	N/A	L	INST. MANUAL
JACKSON ELECT. INST.	652	N/A	U	2 OPERATING INST. MANUAL
JANDEL	2210	N/A	OPERATOR	USER MANUAL
JAVELINE	VTR-200	N/A	X	ALSO -300 -300P
JDR	MOD-MUP	MOD-MUP	X	GUIDE TO OPERATIONS ROM LISTS
JERRELL ASH	26-780	N/A	X	INST. MANUAL
JERROLD	900B	N/A	X	INST. MANUAL
JERROLD	900C	N/A	X	INST. MANUAL
JODON ENG. ASSO. INC	ES 100	N/A	T	MANUAL
JODON ENG. ASSO. INC	HND HN15 HN20	N/A	T	MANUAL
JOFRA	600S	N/A	B	SERVICE
JOFRA	D50RC	N/A	USERS	SERVICE
JOFRA	PCI	N/A	SERVICE	N/A
JOHN FLUKE MFG CO	2620A/2625A	N/A	SERVICE	DATA ACQUISITION UNIT/ DATA LOGGER
JOHN FLUKE MFG CO	2620A/2625A	N/A	W	DATA ACQUISITION UNIT/ DATA LOGGER
JOHNSON	H-439-3H-11-43	N/A	S	INSTRUCTIONS MANUAL
JOHNSON DATA TELEMETRY CORP	DL3240	N/A	S	SERVICE
JOHNSON DATA TELEMETRY CORP	DL3295	N/A	S	SERVICE
JOHNSON DATA TELEMETRY CORP	DL3420	N/A	E	SERVICE
JOHNSON DATA TELEMETRY CORP	DL3422	N/A	E	SERVICE
J-TEC ASSOCIATES	21A	N/A	L	INST. MANUAL
J-TEC ASSOCIATES	VA 200	N/A	L	INSTRUCTION
J-TEC ASSOCIATES	JP-110	N/A	L	N/A
J-TEC ASSOCIATES	VA-200	N/A	X	N/A
J-TEC ASSOCIATES	VA-200-2	N/A	X	N/A
JULIE RESEARCH	PVP-1000S	N/A	E	INSTRUCTION
JULIE RESEARCH	SCO-106	N/A	U	INSTRUCTION
JULIE RESEARCH	VDR-106/7	N/A	U	INSTRUCTION
JULIE RESEARCH	ND-106	N/A	E	OPERATING/SERVICE
JULIE RESEARCH	ND-106	N/A	E	OPERATING/SERVICE
JULIE RESEARCH	ND-106	N/A	E	OPERATING/SERVICE
JVC	BR-S605U/(SA-K17U)	N/A	X	SERVICE MANUAL
JVC	BP-6200U	N/A	O	N/A
K & E	717010	N/A	D	COLLIMATOR
KALBFELL	102A	N/A	X	N/A
KAMAN	KD-2300	N/A	X	DISPLACEMENT TRANSDUCER
KAY ELECTRIC	1000	N/A	X	N/A
KAY ELECTRIC	3000	N/A	K	N/A
KAY ELECTRIC	154C	N/A	X	N/A
KAY ELECTRIC	175A & 403A	N/A	K	N/A
KAY ELECTRIC	MAGA SWEEP	N/A	X	N/A
KAY ELECTRIC	MARKA SWEEP	N/A	X	N/A
KAY ELECTRIC	MEGA MODE	N/A	K	N/A
KAY ELECTRIC	PM100 300 600	N/A	T	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
KAY ELECTRIC	SONA SWEEP	N/A	T	N/A
KAYE	PRJR	N/A	E	INSTRUCTION/SCHEMATIC
KAYE	RP-3G	N/A	H	OPERATION/MAINTENANCE
KAYE	RP-4H	N/A	X	OPERATION/MAINTENANCE
KAYE	K140	N/A	T	TECHNICAL
KAYE	K170	N/A	T	TECHNICAL
KAYE	K170	N/A	T	TECHNICAL
KAYE	K170	N/A	T	TECHNICAL
KAYE	RCS1-4	N/A	E	TECHNICAL
KAYE JOSEPH & CO.	RCS1 & RCS4	N/A	K	N/A
KAYE LAB	111AF	N/A	K	SCHEMATIC ONLY
KAYLAB	510	N/A	TECHNICAL	INSTRUCTIONS ONLY
KAYLAB	103	N/A	X	N/A
KCML MACARR	ST 1000	N/A	N/A	TECHNICAL MANUAL
KEI	7033	7033IEEE488	X	N/A
KEICO	7052 KS 8-100M	N/A	X	OPERATION AND SERVICE
KEITHLEY	167	N/A	E	1 MANUAL AND PAMPHLETS
KEITHLEY	303	N/A	E	2 MANUALS
KEITHLEY	660	N/A	X	2 MANUALS
KEITHLEY	102B 102BR2	N/A	X	2 MANUALS
KEITHLEY	102BR3	N/A	E	2 MANUALS
KEITHLEY	150B	N/A	E	2 MANUALS
KEITHLEY	240B	N/A	X	2 MANUALS
KEITHLEY	416 417	N/A	E	2 MANUALS
KEITHLEY	102	N/A	X	2 SPECIFICATIONS 2 INSTRUCTIONS W/SCHEMATIC
KEITHLEY	120 & 120R	N/A	E	3 MANUALS
KEITHLEY	149	N/A	X	4 MANUALS
KEITHLEY	197	N/A	E	DMM AUTORANGING MICROVOLT
KEITHLEY	CATALOGS	N/A	OPER/SERV	ELECTRONIC MEASURING INSTRUMENTS
KEITHLEY	104	N/A	J	INSTRUCTION
KEITHLEY	131	N/A	X	INSTRUCTION
KEITHLEY	147	N/A	E	INSTRUCTION
KEITHLEY	149	N/A	E	INSTRUCTION
KEITHLEY	153	N/A	E	INSTRUCTION
KEITHLEY	165	N/A	X	INSTRUCTION
KEITHLEY	167	N/A	X	INSTRUCTION
KEITHLEY	168	N/A	E	INSTRUCTION
KEITHLEY	169	N/A	E	INSTRUCTION
KEITHLEY	171	N/A	E	INSTRUCTION
KEITHLEY	181	N/A	E	INSTRUCTION
KEITHLEY	181	N/A	E	INSTRUCTION
KEITHLEY	181	N/A	OPER/SERV COPY	INSTRUCTION
KEITHLEY	199	N/A	E	INSTRUCTION
KEITHLEY	220	N/A	E	INSTRUCTION
KEITHLEY	220	N/A	E	INSTRUCTION
KEITHLEY	220	N/A	E	INSTRUCTION
KEITHLEY	225	N/A	E	INSTRUCTION
KEITHLEY	227	N/A	X	INSTRUCTION
KEITHLEY	241	N/A	E	INSTRUCTION
KEITHLEY	242	N/A	E	INSTRUCTION
KEITHLEY	260	N/A	X	INSTRUCTION
KEITHLEY	261	N/A	E	INSTRUCTION
KEITHLEY	302	N/A	E	INSTRUCTION
KEITHLEY	409	N/A	E	INSTRUCTION
KEITHLEY	414	N/A	X	INSTRUCTION
KEITHLEY	414	N/A	X	INSTRUCTION
KEITHLEY	445	N/A	E	INSTRUCTION
KEITHLEY	480	N/A	X	INSTRUCTION
KEITHLEY	515	N/A	E	INSTRUCTION
KEITHLEY	602	N/A	E	INSTRUCTION
KEITHLEY	602	N/A	X	INSTRUCTION
KEITHLEY	603	N/A	E	INSTRUCTION
KEITHLEY	604	N/A	E	INSTRUCTION
KEITHLEY	616	N/A	E	INSTRUCTION
KEITHLEY	617	N/A	X	INSTRUCTION
KEITHLEY	660	N/A	X	INSTRUCTION
KEITHLEY	6105	N/A	X	INSTRUCTION
KEITHLEY	103A	N/A	E	INSTRUCTION
KEITHLEY	103A	N/A	J	INSTRUCTION
KEITHLEY	130A	N/A	E	INSTRUCTION
KEITHLEY	150A/R	N/A	E	INSTRUCTION
KEITHLEY	150B	N/A	E	INSTRUCTION
KEITHLEY	160B	N/A	E	INSTRUCTION
KEITHLEY	172A/173A	N/A	E	INSTRUCTION
KEITHLEY	172A/173A	N/A	E	INSTRUCTION
KEITHLEY	1793/6423	N/A	E	INSTRUCTION
KEITHLEY	1973/1972	N/A	E	INSTRUCTION
KEITHLEY	240A	N/A	E	INSTRUCTION
KEITHLEY	410A	N/A	E	INSTRUCTION
KEITHLEY	410C	N/A	E	INSTRUCTION
KEITHLEY	413A	N/A	E	INSTRUCTION
KEITHLEY	416/417	N/A	E	INSTRUCTION
KEITHLEY	416/417	N/A	E	INSTRUCTION
KEITHLEY	416/417	N/A	E	INSTRUCTION
KEITHLEY	500/501	N/A	X	INSTRUCTION
KEITHLEY	600A	N/A	E	INSTRUCTION
KEITHLEY	600B	N/A	E	INSTRUCTION
KEITHLEY	600B	N/A	E	INSTRUCTION
KEITHLEY	610A/610R	N/A	E	INSTRUCTION
KEITHLEY	610B/610BR	N/A	E	INSTRUCTION
KEITHLEY	610C/610CR	N/A	E	INSTRUCTION
KEITHLEY	610C/610CR	N/A	X	INSTRUCTION
KEITHLEY	130A	N/A	E	INSTRUCTION (XEROX COPY)
KEITHLEY	179A	N/A	E	INSTRUCTION (XEROX)
KEITHLEY	26120R	N/A	X	INSTRUCTION (XEROX)
KEITHLEY	102A	N/A	X	MANUAL CATALOG PRICE LIST
KEITHLEY	168	N/A	E	MANUAL & SPEC SHEET

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
KEITHLEY	177	N/A	Q	OPERATION AND SERVICE MANUAL
KEITHLEY	181	N/A	E	OPERATORS
KEITHLEY	181	N/A	E	OPERATOR'S MANUAL
KEITHLEY	1795	N/A	E	SERVICE
KEITHLEY	103	N/A	E	SPECIFICATIONS
KEITHLEY	104	N/A	J	SPECIFICATIONS
KEITHLEY	175	N/A	E	SPECIFICATIONS
KEITHLEY	175	N/A	N/A	SPECIFICATIONS
KEITHLEY	510	N/A	E	WITH "STANDARD METHODS OF TEST" BOOKLET
KEITHLEY	147	N/A	X	N/A
KEITHLEY	199	N/A	X	N/A
KEITHLEY	242	N/A	X	N/A
KEITHLEY	260	N/A	E	N/A
KEITHLEY	261	N/A	E	N/A
KEITHLEY	502	N/A	E	N/A
KEITHLEY	603	N/A	E	N/A
KEITHLEY	615	N/A	E	N/A
KEITHLEY	860	N/A	OPER/SERV/INSTRUCTION	N/A
KEITHLEY	104 & 105	N/A	J	N/A
KEITHLEY	106 & 107	N/A	J	N/A
KEITHLEY	108 & 109	N/A	E	N/A
KEITHLEY	1793/6423	N/A	E	N/A
KEITHLEY	200B	N/A	E	N/A
KEITHLEY	414 414C	N/A	E	N/A
KEITHLEY	610B 610BR	N/A	E	N/A
KEITHLEY INSTRUMENTS INC.	195	N/A	OPER/SERV/INSTRUCTION	DIGITAL MULTIMETER
KEITHLEY INSTRUMENTS INC.	191/1910	N/A	OPER/SERV/INSTRUCTION	DIGITAL MULTIMETER
KEITHLEY INSTRUMENTS INC.	195A	N/A	OPER/SERV COPY	DIGITAL MULTIMETER
KEITHLEY INSTRUMENTS INC.	195A	N/A	N/A	DIGITAL MULTIMETER
KEITHLEY INSTRUMENTS INC.	192	N/A	OPER/SERV/INSTRUCTION	DMM
KEITHLEY INSTRUMENTS INC.	197	N/A	W	DMM AUTORANGING MICROVOLT
KEITHLEY INSTRUMENTS INC.	192	N/A	OPER/SERV/INSTRUCTION	DMM AND 1910 AC OPTION
KEITHLEY INSTRUMENTS INC.	192	N/A	OPER/SERV/INSTRUCTION	DMM AND 1910 AC OPTION
KEITHLEY INSTRUMENTS INC.	1920	N/A	OPER/SERV/INSTRUCTION	TRMS ACV OPTION
KEITHLEY INSTRUMENTS INC.	194A	N/A	W	2 SERVICE 2 OPERATOR'S MANUALS
KELTRON	DM400	N/A	W	NO CAL PROCEDURES
KELTRON	DM500-21	N/A	SERVICE	NO CAL PROCEDURES
KELTRON	DM550-21	N/A	SERVICE	NO CAL PROCEDURES
KEN	9100	21-036	SERVICE	AIRLAB
KEN	9X00F	21-037	OPERATOR	AIRLAB
KEN	9600/9650A	93-09600-998	SERVICE	AUTO LOAD DIGITAL TAPE SYSTEM
KEN	9610	9309610001	SERVICE	MAINTENANCE IPB SCHEMATIC OPERATION
KEN	9300	192-9300-003	TECHNICAL SCHEMATICS	OPERATION AND SERVICE TAPE DRIVE
KEN	TW300	006-0092-100	SERVICE	TEST UNIT
KEN	1600R	000-1610-100	SERVICE	WITH FLUX CHECK
KEN	1510	006-0002-100	SERVICE	N/A
KEN	1510	006-0002-100	SERVICE	N/A
KEN	1610	000-1610-100	SERVICE	N/A
KEN	1610	000-1610-100	SERVICE	N/A
KEN	1610	000-1610-100	SERVICE	N/A
KEN	1708	006-0143-100	INSTALLATION	N/A
KEN	1708	306-1708-900A	SERVICE	N/A
KEN	9000	93-0900-998	SERVICE	N/A
KEN	9000	93-0900-999	SERVICE	N/A
KEN	1600/360R	106-0007-200	SERVICE	N/A
KEN	1600R	000-1610-100	SERVICE	N/A
KEN	1600R	192-1603-106	SERVICE	N/A
KEN	1600R	192-1603-106	SERVICE	N/A
KEN	9832/9800	006-9832-100A	OPERATOR	N/A
KEN	TW500	511510	T	N/A
KEN	TW500	406-441	X	N/A
KENNEDY	1500-5	N/A	E	N/A
KENT CAM. SCIENTIFIC	MKI MKII MKIIA	N/A	N/A	PARTS PRICE LIST ONLY
KENTRON-HAWAII	7306/PV	N/A	X	INSTRUCTION
KENWOOD	CV-1280	N/A	X	SERVICE MANUAL
KENWOOD	KA-72 52 522 74	N/A	X	N/A
KEPCO	7025-KS 8-10M	N/A	X	2 MANUALS
KEPCO	ABC 200M	N/A	X	2 MANUALS
KEPCO	ABC 30-0.3M	N/A	X	2 MANUALS
KEPCO	ABC 7.5-2	N/A	N/A	2 MANUALS
KEPCO	BOP 36-5M	N/A	X	2 MANUALS
KEPCO	JQE 100-1M	N/A	X	2 MANUALS
KEPCO	KR18-10M	N/A	X	2 MANUALS
KEPCO	KS36-5M	N/A	X	2 MANUALS
KEPCO	PAX 15-.75M	N/A	X	2 MANUALS
KEPCO	PAX 36-.3M	N/A	X	2 MANUALS
KEPCO	OPS-2000	N/A	X	2 MANUALS - 1 ON LOAN
KEPCO	HB 4A(M)	N/A	X	3 MANUALS
KEPCO	JQE 55-2M	N/A	X	3 MANUALS
KEPCO	SM 160-2M/AM	N/A	X	3 MANUALS
KEPCO	ATE 36-8M	N/A	N/A	INSTRUCTION MANUAL
KEPCO	BHK 2000/0.1M	N/A	X	INSTRUCTION MANUAL
KEPCO	KS 18-50 (M)	N/A	SERVICE	INSTRUCTIONS MANUAL
KEPCO	RMT 002-AA	N/A	X	INSTRUCTIONS MANUAL
KEPCO	JQE15-25(M)	N/A	X	MAINTENANCE MANUAL
KEPCO	KR11(M)	N/A	X	NO FOLDER
KEPCO	7903-KS 8-100M	N/A	X	NO TAG
KEPCO	MPS620M	N/A	N/A	OPERATION AND SERVICE WITH PARTS LIST AND SCHEMATICS
KEPCO	ATE-15-15M	N/A	X	OPERATION MANUAL
KEPCO	P.S. CATALOGUE	N/A	X	SALES CATALOGUES
KEPCO	PR SERIES	N/A	X	SPECIFICATION SHEET ONLY
KEPCO	KR SERIES	N/A	X	SPECIFICATIONS FOR SERIES
KEPCO	605	N/A	X	N/A
KEPCO	605	N/A	X	N/A
KEPCO	5309	N/A	X	N/A
KEPCO	25C 32-1.5	N/A	X	N/A
KEPCO	500CB	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
KEPCO	500R	N/A	X	N/A
KEPCO	6232-5C-18-2M	N/A	X	N/A
KEPCO	6244-5C36-1	N/A	X	N/A
KEPCO	6260SC-3672-0.5	N/A	X	N/A
KEPCO	6780-7092	N/A	X	N/A
KEPCO	ABC	N/A	X	N/A
KEPCO	ABC 1500M	N/A	X	N/A
KEPCO	ABC 18-0.5M	N/A	X	N/A
KEPCO	ABC 40-0.5M	N/A	X	N/A
KEPCO	BOP 56-1.5M	N/A	X	N/A
KEPCO	CK 18.3M	N/A	X	N/A
KEPCO	CK 36-1.5M	N/A	X	N/A
KEPCO	CK 8-5	N/A	X	N/A
KEPCO	HB 2/M	N/A	X	N/A
KEPCO	HB 4A/AM	N/A	X	N/A
KEPCO	JQE 15-6M	N/A	X	N/A
KEPCO	JQE 25-10M	N/A	X	N/A
KEPCO	KM-236-50	N/A	X	N/A
KEPCO	KM-251	N/A	X	N/A
KEPCO	KO 25-50M	N/A	X	N/A
KEPCO	KO 45-30M	N/A	X	N/A
KEPCO	KR1 1M	N/A	X	N/A
KEPCO	KR2M	N/A	X	N/A
KEPCO	KR8-15M	N/A	N/A	N/A
KEPCO	KR8-50M	N/A	X	N/A
KEPCO	PAX 21-.5C	N/A	X	N/A
KEPCO	PTR 40-1.4	N/A	X	N/A
KEPCO	SC 150-1	N/A	X	N/A
KEPCO	SC 18-1M	N/A	X	N/A
KEPCO	SC 32-1	N/A	X	N/A
KEPCO	SC 32-2.5	N/A	X	N/A
KEPCO	SC 32-25	N/A	X	N/A
KEPCO	SC 32-5	N/A	X	N/A
KEPCO	SC 32-5	N/A	X	N/A
KEPCO	SC 32-5M	N/A	X	N/A
KEPCO	SC 60-5	N/A	X	N/A
KEPCO	SERIES MP	N/A	X	N/A
KEPCO	SM 325/-2M	N/A	X	N/A
KEPCO	SM 36-5X/MX	N/A	X	N/A
KEYTRONICS	5151	N/A	SERVICE	N/A
KGS ELECTRONICS	SPC-6-750	N/A	K	N/A
KII	RAMP	20360	X	PROCESSOR
KIKUSUI	PAD-L SERIES	N/A	F	INSTRUCTION MANUAL
KIKUSUI	PAD-L SERIES	N/A	F	SERVICE MANUAL
KINEMATRICS	468-DC	N/A	F	NO TAG
KINEMATRICS	60-TF	N/A	F	N/A
KINETIC SYSTEMS	1502	N/A	N/A	INSTRUCTION
KINETIC SYSTEMS	3495	N/A	INST.	INSTRUCTION
KINETIC SYSTEMS	3664-L1A	N/A	N/A	INSTRUCTION
KINETIC SYSTEMS CORP	1500	N/A	N/A	INSTRUCTION MANUAL
KINETICS	FASTPATH 4	N/A	OPERATION	ALL TECHNICAL DATA IS PROPRIETARY
KINETICS SYSTEMS	3988-G3A/D3A	N/A	H	INSTRUCTION
KINETICS SYSTEMS	4022/4054	N/A	B	OPERATION
KING NUTRONICS	3604	N/A	X	MAINTENANCE SCHEDULE
KINNEY	KTB-1	N/A	X	N/A
KINTEL	114 A	N/A	X	2 MANUALS
KINTEL	111	N/A	X	N/A
KINTEL	203	N/A	X	N/A
KINTEL	111 BF	N/A	K	N/A
KINTEL	1986C/1988C	N/A	X	N/A
KINTEL	204A	N/A	K	N/A
KINTEL	DRM-14R	N/A	B	N/A
KIPP ZONEN	BD 90 & BD 91	N/A	X	SERVICE MANUAL
KISTLEG INST. CO.	504/D/03/04	N/A	X	3 MANUALS
KISTLEG INST. CO.	QA1000/1100	N/A	B	NO TAG
KISTLEG INST. CO.	QA116-14	N/A	B	NO TAG
KISTLEG INST. CO.	202	N/A	X	N/A
KISTLEG INST. CO.	568	N/A	X	N/A
KISTLEG INST. CO.	818	N/A	X	N/A
KISTLEG INST. CO.	205A/515	N/A	X	N/A
KISTLEG INST. CO.	303B/T	N/A	X	N/A
KISTLEG INST. CO.	305T/515T	N/A	X	N/A
KISTLEG INST. CO.	532 M111	N/A	X	N/A
KISTLEG INST. CO.	563A	N/A	X	N/A
KISTLEG INST. CO.	606A/L	N/A	X	N/A
KISTLEG INST. CO.	808K1/561T	N/A	X	N/A
KISTLEG INST. CO.	QA 116-15	N/A	X	N/A
KISTLER	304	N/A	R	ACCELEROMETER
KISTLER	818	N/A	E	ACCELEROMETER
KISTLER	912	N/A	R	ACCELEROMETER
KISTLER	303A	N/A	R	ACCELEROMETER
KISTLER	303B	N/A	R	ACCELEROMETER
KISTLER	303G	N/A	R	ACCELEROMETER
KISTLER	303T	N/A	R	ACCELEROMETER
KISTLER	304M10	N/A	B	ACCELEROMETER
KISTLER	305A	N/A	B	ACCELEROMETER
KISTLER	815A5	N/A	R	ACCELEROMETER
KISTLER	8600 SERIES	N/A	R	ACCELEROMETER
KISTLER	QA-116-14	N/A	OPERATING	ACCELEROMETER
KISTLER	QA-116-17	N/A	X	ACCELEROMETER
KISTLER	CATALOG	N/A	R	ACCELEROMETERS
KISTLER	503	N/A	E	AMPLIFIER
KISTLER	402	N/A	B	CATALOG
KISTLER	404	N/A	B	CATALOG
KISTLER	406	N/A	E	CATALOG
KISTLER	408	N/A	E	CATALOG
KISTLER	606	N/A	E	CATALOG

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
KISTLER	607	N/A	R	CATALOG
KISTLER	203A2	N/A	B	CATALOG
KISTLER	213A6	N/A	R	CATALOG
KISTLER	311M111	N/A	B	CATALOG
KISTLER	555A	N/A	E	CATALOG
KISTLER	587M11-000	N/A	B	CATALOG
KISTLER	503	N/A	E	INSTRUCTION
KISTLER	503	N/A	E	INSTRUCTION
KISTLER	504	N/A	E	INSTRUCTION
KISTLER	537	N/A	E	INSTRUCTION
KISTLER	583	N/A	B	INSTRUCTION
KISTLER	583	N/A	E	INSTRUCTION
KISTLER	818	N/A	R	INSTRUCTION
KISTLER	5004	N/A	X	INSTRUCTION
KISTLER	504A4	N/A	E	INSTRUCTION
KISTLER	504D/3	N/A	E	INSTRUCTION
KISTLER	504D/3	N/A	E	INSTRUCTION
KISTLER	504E	N/A	E	INSTRUCTION
KISTLER	504E	N/A	E	INSTRUCTION
KISTLER	553A	N/A	E	INSTRUCTION
KISTLER	583C113	N/A	E	INSTRUCTION
KISTLER	542A	N/A	B	OPERATING
KISTLER	566	N/A	E	OPERATING AND SERVICE
KISTLER	567	N/A	E	OPERATING AND SERVICE
KISTLER	568	N/A	E	OPERATING AND SERVICE
KISTLER	513/303A	N/A	E	OPERATING AND SERVICE
KISTLER	536A/L/H	N/A	E	OPERATING AND SERVICE
KISTLER	563A	N/A	E	OPERATING AND SERVICE
KISTLER	900A	N/A	R	OPERATING AND SERVICE
KISTLER	568	N/A	E	OPERATING AND SERVICE (XEROX)
KISTLER	593	N/A	B	OPERATING AND SERVICE (XEROX)
KISTLER	808K/561T	N/A	E	SPECIFICATIONS
KISTLER	204	N/A	R	N/A
KISTLER	314	N/A	B	N/A
KISTLER	504	N/A	E	N/A
KISTLER	601	N/A	B	N/A
KISTLER INSTRUMENT CORP.	5010B 5010BM2	N/A	X	DUAL MODE CHARGE AMPLIFIER
KLINGER	CC-1	N/A	B	PROGRAMMING CONTROLLER
KLINGER	CATALOGS	N/A	N/A	VARIOUS MODELS OF CONTROLLERS
KLINGER SCIENTIFIC	MC-2	N/A	X	OPERATOR/SERVICE MANUAL
KOLLSMAN	TTU-205	N/A	X	N/A
KORAD P.S.	K1	N/A	X	N/A
KORAD P.S.	KWC-1	N/A	X	N/A
KRAUTKRAMER-BRADSON	303/B	N/A	X	N/A
KROHN HITE	7500	N/A	N/A	OPERATIONS MANUAL
KROHN HITE	MT-56R	N/A	F/K	OPERATIONS MANUAL
KROHN HITE	6620	N/A	X	OPERATORS/MAINTENANCE
KROHN-HITE	50 WATT AMP	N/A	K/F	2 MANUALS
KROHN-HITE	SERIES 4000	N/A	X	2 MANUALS
KROHN-HITE	UHR-T361R	N/A	B	2 MANUALS
KROHN-HITE	3343	N/A	K	FILTER
KROHN-HITE	6500	N/A	K	OPERATING AND MAINTENANCE
KROHN-HITE	3750	N/A	K/F	OPERATION & SERVICE
KROHN-HITE	5600	N/A	K	OPERATION AND SERVICE MANUAL
KROHN-HITE	3340 SERIES	N/A	K	OPERATION MANUAL
KROHN-HITE	5400A	N/A	K/F	SCHEMATIC INCLUDED
KROHN-HITE	3200(R)/3202(R)	N/A	K	VARIABLE FILTER
KROHN-HITE	2000	N/A	X	N/A
KROHN-HITE	2400	N/A	K	N/A
KROHN-HITE	3103	N/A	X	N/A
KROHN-HITE	3320	N/A	K	N/A
KROHN-HITE	3343	N/A	K	N/A
KROHN-HITE	3570	N/A	K	N/A
KROHN-HITE	4200	N/A	F/K	N/A
KROHN-HITE	4500	N/A	K/F	N/A
KROHN-HITE	5600	N/A	E	N/A
KROHN-HITE	6500	N/A	F	N/A
KROHN-HITE	7500	N/A	X	N/A
KROHN-HITE	10 WATT AMP	N/A	F/K	N/A
KROHN-HITE	310AB	N/A	K	N/A
KROHN-HITE	3200(R)	N/A	K	N/A
KROHN-HITE	3202(R)	N/A	K	N/A
KROHN-HITE	330-AR	N/A	K	N/A
KROHN-HITE	330-M	N/A	K	N/A
KROHN-HITE	3340(R)&3342(R)	N/A	K	N/A
KROHN-HITE	400-C	N/A	K/F	N/A
KROHN-HITE	430-AB	N/A	F/K	N/A
KROHN-HITE	440-A	N/A	X	N/A
KROHN-HITE	440-A(R)	N/A	X	N/A
KROHN-HITE	5200(R)	N/A	K/F	N/A
KROHN-HITE	5300(R)	N/A	N/A	N/A
KROHN-HITE	6400A	N/A	K	N/A
KROHN-HITE	UF101-A	N/A	B	N/A
KULITE	CQ125	N/A	B	CATALOG
KULITE	CTM-190	N/A	B	CATALOG
KULITE	GPL-125	N/A	B	CATALOG
KULITE	HEM-375	N/A	B	CATALOG
KULITE	HKM-375	N/A	B	CATALOG
KULITE	LQ-080	N/A	B	CATALOG
KULITE	LQ-125	N/A	B	CATALOG
KULITE	XCW-093	N/A	B	CATALOG
KULITE	XTM	N/A	X	CATALOG
KULITE	XTME	N/A	L	CATALOG
KURMAN	V102A DC	N/A	X	N/A
KURZ-KASCH	IC-590	N/A	SERVICE	N/A
KUSTOM SIGNALS	HR-8	N/A	MAINTENANCE MANUAL	OPERATION AND SERVICE
KYB	11818	MLC-300	MAINTENANCE MANUAL	BOOK AT ACD

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
KYB	MLC300	A11818	SERVICE	BOOK AT ACD
KYB	MLC400 M-400-Z	MLC-400	SERVICE	BOOK AT ACD
KYB	MLC400 SERIES	M400-2	SERVICE	BOOK AT ACD
KYB	MLT 500	A11730	SERVICE	BOOK AT ACD
KYB	9600	13793	SERVICE	INTEGRA MODEL T480/T485 MAINT MANUAL
KYB	6000	FS-M-6000-2	SCHEMATICS	KYBE MLT600/6000
KYB	6000	FS-M-6000-1	MAINTENANCE MANUAL	KYBE MLT600/6000 MAINT. MANUAL
KYB	6000	FS-M-6000-2	SERVICE	KYBE MLT600/6000 MAINT. MANUAL
KYO	F-2010	04-000-00345-4	SERVICE	COMPACT LASER PRINTER
KYO	Q-8010	Q-8010	J	P-200/Q-8010 SERVICE + MAINTENANCE
KYO	Q-8010	P-2000/Q-8010	X	TECHNICAL DIAGNOSTIC IPB
L & R	100	N/A	D	N/A
LAB. FOR ELECTRONICS	814A	N/A	SEE IBM 5154	N/A
LABECO	DD-1.1 & DD-2.1	N/A	X	N/A
LAD	7BM613074G	REF	K	SAMS COMPUTER FACTS
LAFAYETTE	142	N/A	E	NO MANUAL
LAIRD-TELEMEDIA	3302	N/A	T	N/A
LAKESHORE CRYOTRONIC	DRC80C	N/A	TECHNICAL	INSTRUCTION
LAKESHORE CRYOTRONIC	DRC84C	N/A	TECHNICAL	INSTRUCTION
LAKESHORE CRYOTRONIC	110/120	N/A	T	OPERATING AND SERVICE
LAMB	LMOV-SERIES	B-1121-8	X	OVERVOLTAGE PROTECT
LAMB	LCS-A	IM-LCS-A	TECHNICAL	POWER SUPPLY
LAMB	LCS-C	IM-LCS-C	OPERATOR	POWER SUPPLY
LAMB	LM-B	IM-LMB	OPERATOR	POWER SUPPLY
LAMB	LM-C	IM-LMC	TECHNICAL	POWER SUPPLY
LAMB	LM-D	IM-LMD	X	POWER SUPPLY
LAMB	LB-721FM-OV	IM-LB72	TECHNICAL	REG POWER SUPPLY
LAMBDA	LCS-4	N/A	X	1 MANUAL
LAMBDA	LK36-LK 36CFM	N/A	X	1 MANUAL
LAMBDA	LT-1095 1095FM	N/A	X	1 MANUAL
LAMBDA	LT-2095 2095FM	N/A	X	1 MANUAL
LAMBDA	LX SERIES	N/A	X	1 SHEET INCLUDED
LAMBDA	N/A	N/A	X	2 CATALOGS
LAMBDA	0-1818-1	N/A	X	2 MANUALS
LAMBDA	121S	N/A	X	2 MANUALS
LAMBDA	25 & 28	N/A	X	2 MANUALS
LAMBDA	LGS-G SERIES	N/A	X	2 MANUALS
LAMBDA	LH-121 -121-FM	N/A	X	2 MANUALS
LAMBDA	LH124 SERIES	N/A	X	2 MANUALS
LAMBDA	LP-410A-FM	N/A	X	2 MANUALS
LAMBDA	LP-415A-FM	N/A	X	2 MANUALS
LAMBDA	LPD SUFFIX A SR.	N/A	X	2 MANUALS
LAMBDA	LT 2095A 2095AM	N/A	X	2 MANUALS
LAMBDA	LT1095A 1095AM	N/A	X	2 MANUALS
LAMBDA	LZ-SERIES	N/A	N/A	2 MANUALS
LAMBDA	LGS-EEA SERIES	N/A	X	3 MANUALS
LAMBDA	LMOV-1 THRU 9	N/A	N/A	3 MANUALS/1 SHEET
LAMBDA	LH125 SERIES	N/A	X	5 MANUALS
LAMBDA	LOD SERIES	N/A	X	INSTRUCTION MANUAL
LAMBDA	LP-522-FM	N/A	X	INSTRUCTION MANUAL
LAMBDA	LA-300 SERIES	N/A	X	INSTRUCTION MANUAL
LAMBDA	L9000 SERIES	N/A	X	INSTRUCTIONS MANUAL
LAMBDA	LQ-410	N/A	X	MAINTENANCE MANUAL
LAMBDA	LR-615FM	N/A	N/A	MANUAL IN POOR CONDITION
LAMBDA	LRS-52-28	N/A	X	OPERATION & SERVICE MANUAL
LAMBDA	71	N/A	X	N/A
LAMBDA	0-1939	N/A	X	N/A
LAMBDA	101 101M & 101FM	N/A	X	N/A
LAMBDA	119FM 119S	N/A	X	N/A
LAMBDA	32 32C & 34	N/A	X	N/A
LAMBDA	33 33C 35 35R	N/A	X	N/A
LAMBDA	50 & 50R	N/A	X	N/A
LAMBDA	64 & 64M	N/A	X	N/A
LAMBDA	C1581 & 1581M	N/A	X	N/A
LAMBDA	C280 280M & 060	N/A	X	N/A
LAMBDA	C281	N/A	X	N/A
LAMBDA	C480 & 480M	N/A	X	N/A
LAMBDA	C481 & 481M	N/A	X	N/A
LAMBDA	C881 881M	N/A	X	N/A
LAMBDA	LA 100-03A	N/A	X	N/A
LAMBDA	LA 100-03AM	N/A	N/A	N/A
LAMBDA	LA 20-05 BM	N/A	X	N/A
LAMBDA	LA50 LA03B(M)	N/A	X	N/A
LAMBDA	LCS-A SERIES	N/A	X	N/A
LAMBDA	LD801 811 831	N/A	X	N/A
LAMBDA	LE103 103M 103FM	N/A	X	N/A
LAMBDA	LGS-5 SERIES	N/A	X	N/A
LAMBDA	LGS-EE SERIES	N/A	X	N/A
LAMBDA	LH-118	N/A	X	N/A
LAMBDA	LH-119A 119A-FM	N/A	X	N/A
LAMBDA	LH-119A-S 119	N/A	X	N/A
LAMBDA	LK340 & 340A	N/A	X	N/A
LAMBDA	LK345 & 345A	N/A	X	N/A
LAMBDA	LND-X-152	N/A	X	N/A
LAMBDA	LP-520-FM	N/A	X	N/A
LAMBDA	LQD420 SERIES	N/A	X	N/A
LAMBDA	LR-602 - 606AFM	N/A	X	N/A
LAMBDA	LRA-1 & LRA-2	N/A	X	N/A
LAMBDA	LRS-53 SERIES	N/A	X	N/A
LAMBDA	LRS-55	N/A	X	N/A
LAMBDA	LRS-58 SERIES	N/A	X	N/A
LAMBDA	LT 1095M & 2095M	N/A	X	N/A
LAMBDA	LT SERIES	N/A	X	N/A
LAMBDA	LXS-D	N/A	X	N/A
LAMBDA ELECTRONICS	LIS-71-5	N/A	N/A	INSTRUCTION/SCHEMATICS
LAMBDA ELECTRONICS	LRS-57-SERIES	N/A	K	INSTRUCTION/SERVICE MANUAL
LAMBDA ELECTRONICS	LLS-8000 SERIES	N/A	N/A	OPERATION & SERVICE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
LAMBDA ELECTRONICS	LFS-48-SERIES	N/A	N/A	SPECIFICATIONS/SCHEMATICS
LAMBOA	LQ-530	N/A	D	SERVICE
LANSING	80.215	N/A	D	N/A
LASER ANALYTICS	SP5720	N/A	X	INSTRUCTION
LASER ANALYTICS	LSA OPT 2	N/A	E	SCHEMATIC INCLUDED
LASER ANALYTICS	LCM	N/A	T	N/A
LASER PRECISION	RJ-700G	N/A	O	1 INSTRUCTION MANUAL 2 OPERATIONAL MANUALS
LASER PRECISION	CTX530/532	N/A	X	INSTRUCTION
LASER PRECISION	RJ7000	N/A	O	INSTRUCTION
LASER PRECISION	RK5200	N/A	O	INSTRUCTION
LASER PRECISION	RKP-510/511	N/A	O	INSTRUCTION
LASER PRECISION	RS5900	N/A	K	INSTRUCTION
LASER PRECISION	AK-2900	N/A	N/A	OPERATING
LASER PRECISION	CTX-534	N/A	O	OPERATING/SERVICE
LASER PRECISION	RL3610	N/A	O	OPERATION
LASER PRECISION	RS3960	N/A	F	OPERATION
LASER PRECISION	CTX-534	N/A	D	N/A
LASER PRECISION	KT-1000/333	N/A	O	N/A
LAVOIE	LA265D	N/A	F	2 MANUALS
LAVOIE	LA90	N/A	X	2 MANUALS
LAVOIE	J0000164	N/A	X	SCHEMATIC DIAGRAM
LAVOIE	LA18M 20M	N/A	X	N/A
LAVOIE	LA265CA	N/A	X	N/A
LAVOIE	LA800D	N/A	E	N/A
LDJ	710	N/A	X	OPERATING
LE PEL LABS	T-2 5-1	N/A	OPERATOR	N/A
LEACH CORP.	32FMR802	N/A	SERVICE	N/A
LEAD	LTC-9061/906A	86098K	N/A	GFE TRANSISTOR TESTER
LEAD	LBO-315	90121K	INSTRUCTION	INSTRUCTION MANUAL-LBO-315 OSCILLOSCOPE
LEADER	5870	N/A	K	OPERATOR
LEADER	5870	N/A	SERVICE	SERVICE
LEADER	LBO-314/315	N/A	K	SERVICE MANUAL
LEADER ELECTRONICS	LCR-745	N/A	X	INSTRUCTION
LEADER ELECTRONICS	LBO-310A	N/A	K	N/A
LEADER ELECTRONICS	LBO-325	N/A	E	N/A
LEADER ELECTRONICS	LCG-395	N/A	X	N/A
LEADER ELECTRONICS	LTC-906/906A	N/A	Q	N/A
LEADER INSTRUMENTS CORP	LFG-1310	N/A	R	SERVICE MANUAL
LEAR SIEGLER	9000	N/A	M	GYRO
LEAR SIEGLER	9010	N/A	X	GYRO
LEAR SIEGLER	300 SERIES	N/A	R	N/A
LEBOW	1600	N/A	X	ROTARY XFORMER TORQUE SENSOR
LEC	417	N/A	X	N/A
LECROY	123	N/A	X	2 MANUALS
LECROY	9430	N/A	N/A	OPERATORS
LECROY	9310M	N/A	N/A	OPERATORS
LECROY	9420/45	N/A	H	OPERATORS
LECROY	9450A	N/A	B	OPERATORS DIGITAL O-SCOPE
LECROY	9314	N/A	3	OPERATORS MANUAL
LECROY	9450/20	N/A	7	OPERATOR'S MANUAL
LECROY	9400	N/A	N/A	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9424	N/A	A	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9430	N/A	N/A	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	2741068	N/A	G	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9310/14 SERIES	N/A	N/A	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9420/24/50	N/A	0	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9450/20 SERIES	N/A	1	OPERATOR'S MANUAL DIGITAL O-SCOPES
LECROY	9450/20	N/A	6	OPERATORS/REMOTE CONTROL
LECROY	9310 SERIES	N/A	N/A	PERFORMANCE TEST PROCEDURES DIGITAL O-SCOPES
LECROY	9410/14/20/24/50	N/A	N/A	PROGRAMMER'S MANUAL DIGITAL O-SCOPES
LECROY	9420/50	N/A	8	PROGRAMMER'S MANUAL DIGITAL O-SCOPES
LECROY	9450/20 SERIES	N/A	SERVICE	PROGRAMMER'S MANUAL DIGITAL O-SCOPES
LECROY	9430	N/A	N/A	REMOTE CONTROL
LECROY	9410-9450	N/A	9	REMOTE CONTROL
LECROY	9314	N/A	SERVICE AND OPERATOR'S MANUALS	REMOTE CONTROL MANUAL
LECROY	9300 SERIES	N/A	4	REMOTE CONTROL MANUAL DIGITAL O-SCOPES
LECROY	9310M	N/A	N/A	REMOTE PROGRAMMING
LECROY	9430	N/A	F	SERVICE
LECROY	9310M	N/A	N/A	SERVICE
LECROY	LT SERIES	N/A	X	SERVICE
LECROY	LT344L	N/A	N/A	SERVICE
LECROY	9314	N/A	N/A	SERVICE MANUAL
LECROY	9450	N/A	N/A	SERVICE MANUAL
LECROY	9450A	N/A	N/A	SERVICE MANUAL
LECROY	LC334A	N/A	N/A	SERVICE MANUAL
LECROY	LC534/A	N/A	N/A	SERVICE MANUAL
LECROY	9430	N/A	N/A	SERVICE MANUAL DIGITAL O-SCOPES
LECROY	9450	N/A	N/A	SERVICE MANUAL DIGITAL O-SCOPES
LECROY	9314 SERIES	N/A	E	SERVICE MANUAL DIGITAL O-SCOPES
LECROY	9450A	N/A	S	SERVICE MANUAL DIGITAL O-SCOPES
LECROY	9400	N/A	D	SERVICE MANUAL DIGITAL STORAGE O-SCOPES
LECROY	9350	N/A	K	USE FOR LECROY DIGITIZING OSCILLOSCOPES 9350/54 SERIES.
LECROY	4301	N/A	5	USERS MANUAL
LECROY	4300B	N/A	2	USERS MANUAL
LECROY	133	N/A	X	N/A
LECROY	227	N/A	X	N/A
LECROY	1033	N/A	X	N/A
LECROY	9400	N/A	C	N/A
LECROY	128/128L	N/A	X	N/A
LECROY	133B	N/A	X	N/A
LECROY	227/227SG	N/A	X	N/A
LECROY CORP	LC534	N/A	SEE AAE 910	SERVICE/CALIBRATION
LECROY CORPORATION	9354C	N/A	N/A	SERVICE MANUAL
LEDX	100	REF	X	N/A
LEE SPRING CO.	CAT # 1-5	N/A	X	N/A
LEEDS & NORTHROP	4249	N/A	E	CALIBRATION
LEEDS & NORTHROP	4287	N/A	E	CALIBRATION



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
LEEDS & NORTHRUP	4306	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4395	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4395	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4735	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4735	N/A	E	CALIBRATION
LEEDS & NORTHRUP	8686	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4232B	N/A	E	CALIBRATION
LEEDS & NORTHRUP	4232B	N/A	E	CALIBRATION
LEEDS & NORTHRUP	7592/7593	N/A	X	CALIBRATION
LEEDS & NORTHRUP	9834/9834-1	N/A	E	CALIBRATION
LEEDS & NORTHRUP	9834/9834-1	N/A	E	CALIBRATION
LEEDS & NORTHRUP	9838/9838-1	N/A	X	CALIBRATION
LEEDS & NORTHRUP	9838/9838-1	N/A	X	CALIBRATION
LEEDS & NORTHRUP	2760	N/A	E	CALIBRATION (XEROX)
LEEDS & NORTHRUP	8686	N/A	E	CALIBRATION (XEROX)
LEEDS & NORTHRUP	4393	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	4399	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	7553	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	7555	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	2064843	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	2064843	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	2064843	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	2064843	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	2064843	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	4321B/4323B	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	7556A	N/A	X	INSTRUCTION
LEEDS & NORTHRUP	8069B	N/A	E	INSTRUCTION
LEEDS & NORTHRUP	923	N/A	E	OPERATING
LEEDS & NORTHRUP	6430/6460	N/A	L	OPERATING
LEEDS & NORTHRUP	7421	N/A	E	OPERATION
LEEDS & NORTHRUP	10877	N/A	X	OPERATION
LEEDS & NORTHRUP	4287-1	N/A	E	OPERATION
LEEDS & NORTHRUP	4300/4320	N/A	E	OPERATION
LEEDS & NORTHRUP	4300/4320	N/A	E	OPERATION
LEEDS & NORTHRUP	2760	N/A	L	OPERATOR CONDENSED (XEROX)
LEEDS & NORTHRUP	2760	N/A	E	OPERATOR AND SERVICE
LEEDS & NORTHRUP	4271	N/A	E	SPECIFICATION
LEEDS & NORTHRUP	872600	N/A	E	SPECIFICATIONS
LEEDS & NORTHRUP	4283-2	N/A	E	SPECIFICATIONS
LEEDS & NORTHRUP	5300/5305	N/A	E	SPECIFICATIONS
LEEDS & NORTHRUP	420	N/A	E	N/A
LEEDS & NORTHRUP	745	N/A	E	N/A
LEEDS & NORTHRUP	1376	N/A	L	N/A
LEEDS & NORTHRUP	1970	N/A	E	N/A
LEEDS & NORTHRUP	2740	N/A	E	N/A
LEEDS & NORTHRUP	10194	N/A	E	N/A
LEEDS & NORTHRUP	77990	N/A	X	N/A
LEEDS & NORTHRUP	177155	N/A	X	N/A
LEEDS & NORTHRUP	10869G	N/A	X	N/A
LEEDS & NORTHRUP	77-10-0-3	N/A	X	N/A
LEEDS & NORTHRUP	77-10-1-8	N/A	X	N/A
LEEDS & NORTHRUP	77-28-0-13	N/A	E	N/A
LEEDS & NORTHRUP	77-38-2-2	N/A	E	N/A
LEEDS & NORTHRUP	P-ND46	N/A	X	N/A
LEEDS & NORTHRUP	PS11900	N/A	X	N/A
LEEDS & NORTHRUP	PS11905-25	N/A	REPA	N/A
LEEDS & NORTHRUP	SATUR. REACTOR	N/A	X	N/A
LEEDS AND NORTHRUP	SPEEDOMAX 25000	N/A	D	REPAIR MANUAL
LEESOMA CORP.	PROX. DETECTOR	N/A	F	SCHEMATIC
LEITZ	3537	N/A	K	DIVIDING HEAD
LEKTRA	560	N/A	X	N/A
LENCO	PCE-462	N/A	K	INSTRUCTION
LENCO	PPS-101	N/A	U	N/A
LIXICON CORP.	LEX-11	N/A	B	SERVICE MANUAL
LEYBOLD	ULTRATEST F	N/A	B	REPAIR AND PARTS
LEYBOLD/INFICON	CC-3	N/A	B	N/A
LEYBOLD/INFICON	CM-3	N/A	B	N/A
LEYBOLD/INFICON	IG-3	N/A	H	N/A
LEYBOLD/INFICON	PG-3	N/A	X	N/A
LEYBOLD-HERAEUS	1M-210D	N/A	B	N/A
LEYBOLD-HERAEUS	1M-510	N/A	B	N/A
LEYBOLD-HERAEUS	CM-330	N/A	B	N/A
LEYBOLD-HERAEUS	PM-310	N/A	B	N/A
LEYBOLD-HERAEUS	TM-210	N/A	B	N/A
LEYBOLD-HERAEUS	TM-220	N/A	B	N/A
LFE	4320	N/A	SERVICE	BULLETIN
LH RESEARCH	LM10	N/A	X	2 MANUALS/DATA SHEETS
LIBE	FREEDOM 200	200	X	N/A
LIEBERT	3600A	N/A	4	N/A
LIGHT CONTROL INST.	502 & 520	N/A	E	OPERATORS/CAL
LIGHTWAVE ELECT.	120 SERIES	N/A	N/A	USERS MANUAL
LINCOLN	NOVA-SP-121	N/A	N/A	INTRODUCTION
LINE GUARD	600	N/A	INSTALLATION AND OPERATION	OPERATIONS MANUAL
LING DYNAICS SYSTEMS	DSC4	N/A	CALIBRATION AND MAINTENANCE	USER/SERVIC AND CALIBRATION
LING DYNAMIC SERVICE	DSC-4	N/A	A	INSTALLATION AND OPERATION
LING DYNAMIC SYSETSMS	DSC-4	N/A	A	CALIBRATION AND MAINTENANCE
LING DYNAMICS	100 SERIES	N/A	A	SHAKER
LING DYNAMICS	200 SERIES	N/A	X	SHAKER
LING DYNAMICS	V47	N/A	X	SHAKER
LING ELECTRONICS	ASDE-80	N/A	X	3 MANUALS
LING ELECTRONICS	120	N/A	X	N/A
LING ELECTRONICS	CP-10/16AOC	N/A	X	N/A
LING ELECTRONICS	EO 7864	N/A	X	N/A
LING ELECTRONICS	TP-100-2	N/A	O/S	N/A
LITTON	SYSTEMS 70/80	N/A	U	N/A
LLX LIGHTWAVE	LDC-3742	N/A	X	INSTRUCTION MANUAL
LOCKHEED	417	N/A	J	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
LOCKHEED ELECTRONICS	1020	N/A	X	N/A
LOGIMETRICS INC.	750	N/A	X	N/A
LOUIS ALLIS CO.	80TA & 80TB	N/A	X	N/A
LOUIS ALLIS CO.	80TASP	N/A	PROGRAM	N/A
LOVE CONTROLS CORP.	165	N/A	PROGRAM	N/A
LRC	CYBER	60429800	PROGRAM	CYBER LOADER VERSION1 REF
LRC	CYBER	A-1	PROGRAM	NOS INTRODUCTION
LRC	CYBER	LARC XEDIT	MAINTENANCE	REFERENCE
LRC	CYBER	A-1	SERVICE	N/A
LSI	300 SERIES	DP3120982F	SERVICE	BALLISTIC PRINTER
LSI	200A SERIES	DP-109	MAINTENANCE	BALLISTIC PRINTER MAINTENANCE
LSI	ADM11	DP2920884F	MAINTENANCE	DISPLAY TERMINAL W EMUCATIONS
LSI	ADM-3A	DP-104	OPERATOR	DUMB TERMINAL
LSI	ADM11	DP3990284P	OPERATOR	INSTALLATION OPERATION
LSI	300 SERIES	DP3120982FD	SERVICE	SCHEMATICS
LSI	ADM-2	LSI-ADM-2	TECHNICAL	TERMINAL
LSI	RG-512	RG-512	X	USER'S MANUAL
LSI	ADM11	DP2920884F	SERVICE	W/EMULATIONS
LSI	ADM2	LSI-ADM-2	SERVICE	N/A
LSI	ADM3	445	OPERATOR	N/A
LSI	ADM3A	DP-305	SCHEMATICS	N/A
LTD	3302	3302	K	THEORY OF OPERATION AND PRINTS
LTV INC.	300T	N/A	K	N/A
LUMATRON	120	N/A	K	3 MANUALS
LUMATRON	112	N/A	X	SCHEMATICS
LUMATRON	604	N/A	X	SCHEMATICS
LUMATRON	610	N/A	K	SCHEMATICS
LUMATRON	620	N/A	E	SCHEMATICS
LUMATRON	2430	N/A	X	N/A
LUMATRON	505A	N/A	X	N/A
LUMATRON ELECT.	112B	N/A	REFERENCE	N/A
LUMONICS	20D/50D	N/A	USERS	INTRODUCTION
LXD	LEX 90	D312-03-1.0	X	LEX 90 REF. MANUAL
LXD	LEX 90	D312-02-03.0	N	LEX 90 USERS
LYNCH CORP.	CC8626.1	N/A	TECHNICAL	N/A
LYNN PRODUCTS	6200-DR	N/A	A	N/A
LYNX	300	-300	X	FLOPPY ALIGNMENT
M/RAD CORP.	197	N/A	Q	SCHEMATICS INCLUDED
MACARR	RAC-403 KA-SP	N/A	X	N/A
MACRODYNE INC.	2096 & 3000 SR.	N/A	S	2096 NOT IN FOLDER/2 MANUALS
MACRODYNE INC.	3005	N/A	I	N/A
MACRODYNE INC.	2000 SERIES	N/A	K	N/A
MACRODYNE INC.	3005	N/A	Q	OPERATOR AND SERVICE
MADISON RESEARCH	S-2L	N/A	X	3 MANUALS 1 COMPARISON SHEET
MADISON RESEARCH	T.L.	N/A	U	N/A
MAGNA FLUX CORP.	P-90	N/A	U	N/A
MAGNECORD	PTG-A	N/A	X	3 MANUALS
MAGNECORD	S36B	N/A	X	N/A
MAGNETIC INST. CO.	362-1	N/A	X	N/A
MAGNION	PS-25-100-3	N/A	N/A	SCHEMATIC
MAGNION	25-100-4	N/A	X	SCHEMATIC INCLUDED
MALLORY LAB	VA 3000	N/A	K	2 MANUALS/SCHEMATIC
MANSFIELD & GREEN	T	N/A	K	OPERATION AND SERVICE MANUAL
MANSON LAB	CFS-250	N/A	N/A	SCHEMATIC INCLUDED
MANSON LAB	RD-144C	N/A	X	N/A
MARATHON POWER TECHNOLOGIES	PC-16	N/A	D	OPERATION/SERVICE
MARCHANT	SK	N/A	X	N/A
MARCO SCIENTIFIC	1114	N/A	K	N/A
MARCONI INST.	TF 1066/B-2	N/A	K	2 MANUALS
MARCONI INST.	6960	N/A	X	N/A
MARCONI INST.	TF 1245	N/A	SERVICE AND OPERATOR	N/A
MARCONI INST.	TF 1247	N/A	D	N/A
MARINE ELEC. RPD	ST1000	N/A	D	SERVICE AND OPERATOR
MASER OPTICS	700	N/A	K/W	N/A
MASER OPTICS	720	N/A	W	N/A
MASSA	PR-400-401	N/A	N/A	2 MANUALS
MASSA	0S-610	N/A	W	N/A
MASSA	250/260/"A" SR.	N/A	W	N/A
MASSA	BAA-250A/200A	N/A	X	N/A
MASSA	BSA 660 860AP	N/A	A	N/A
MASSA	BSA-250A/260A	N/A	A	N/A
MASSA	GA-1006	N/A	X	N/A
MASSA	M-136 137	N/A	X	N/A
MASSA	PR-100	N/A	X	N/A
MASSA	PR-200-201	N/A	X	N/A
MASSA	PR-300-301	N/A	K	N/A
MASSA	PR-500	N/A	X	N/A
MATEC INSTRUMENTS	MBS-8000	N/A	TECHNICAL SERVICE	OPERATING MANUAL
MATRIX CORP.	1701	N/A	N/A	N/A
MAX	8CM540	6527	X	CONTAINS SCHM. AND PARTS LIST
MAXWELL LABS	40330	N/A	X	OPERATIONS & MAINTENANCE MANUAL
MB	N504	N/A	E	MANUALS
MB ELECTRONICS	SDA	N/A	X	4 MANUALS
MB ELECTRONICS	N461	N/A	X	INSTRUCTION AND SERVICE
MB ELECTRONICS	2250MB	N/A	A	INSTRUCTIONS MANUAL
MB ELECTRONICS	518	N/A	A	INTRODUCTION
MB ELECTRONICS	N292/3/4	N/A	X	INTRODUCTION
MB ELECTRONICS	ZERO DRIVE	N/A	X	INTRODUCTION
MB ELECTRONICS	N480	N/A	E	OPERATING MANUAL
MB ELECTRONICS	C31	N/A	A	VIBRATION PICKUP
MB ELECTRONICS	C311	N/A	A	VIBRATION PICKUP
MB ELECTRONICS	EA1 500	N/A	E	VIBRATION PICKUP
MB ELECTRONICS	EA1500 2120MB	N/A	E	N/A
MB MANUFACTURING	S-3	N/A	SERVICE	1 MANUAL
MB MANUFACTURING	S-31-1	N/A	SERVICE	1 MANUAL
MB MANUFACTURING	M3	N/A	M	2 MANUALS
MB MANUFACTURING	M6	N/A	K	2 MANUALS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
MB MANUFACTURING	N572	N/A	X	5 MANUALS IN BAD CONDITION
MB MANUFACTURING	22-135	N/A	X	INSTRUCTIONS SHEET
MB MANUFACTURING	C-2 T-30	N/A	X	MANUAL
MB MANUFACTURING	M/A	N/A	X	MANUAL
MB MANUFACTURING	N570 N571	N/A	X	SCHEMATICS INC./MANUAL IN POOR CONDITION
MB MANUFACTURING	2120 MB	N/A	X	SIGNED OUT 5/73
MB MANUFACTURING	N400	N/A	A	N/A
MBI	XC3315C	XC3315C	X	33" COLOR DISPLAY MONITOR
MBI	HL6605	SMHL-6605	SERVICE	DIAMOND SCAN 16" HIGH RESOLUTION MONITOR
MBI	HC3905	HC3905	SCHEMATICS	HC3905 SERVICE MANUAL
MBI	M4853-1	TJ2-G30210D	SERVICE	LOGIC MANUAL
MBI	XC-1410C	XC1410C	SERVICE	SERVICE AND MAINTENANCE INSTRUCTIONS
MBI	G370-10S/12S	805-LSP-F0228A	SCHEMATICS	THERMAL TRANSFER COLOR PRINTER
MBI	XC-1430C	XC1430C	X	N/A
MBIS	N408	N/A	N/A	MANUALS
MCCOLPIN-CHRISTIE	H A AA B	N/A	N/A	MANUAL
MCINTOSH	MC60	N/A	INSTALLATION	MANUAL
MCINTOSH	2100	N/A	N/A	OWNER'S MANUAL
MCINTOSH	MC40	N/A	CATALOG	SERVICE INFO
MCINTOSH	MC2300	N/A	X	SERVICE MANUAL
MCINTOSH	MA 6200	N/A	N/A	USERS & SERVICE MANUAL
MCINTOSH	MA 7007	N/A	X	USERS & SERVICE MANUAL
MDB	MDL11	80040520	PROGRAM	ASYNC LINE INTF
MDB	DC500	80010005	INSTALLATION	DATA CARTRIDGE 500 INSTALLATION GUIDE
MDB	DS2100	80036465	TECHNICAL	DATA SHUTTLE 2100 SCSI DISK CHASSIS
MDB	DS2X00	80010014	TECHNICAL	DATA SHUTTLE STANDARD CANISTER
MDB	MDB-DR11-B	80040311	SERVICE	DMA MODULE MAINTENANCE MANUAL
MDB	DS2000	80035963	INSTALLATION	INSTALLATION AND GENERAL DESCRIPTION
MDB	CATALOG	CATALOG	INSTALLATION	INTERFACE
MEAG	4000	SYSTEM 4000	X	EQUIPMENT REFERENCE MANUAL
MEAG	4000	SYSTEM 4000	X	SOFTWARE MANUAL
MEALER CO.	PH METER	N/A	X	SCHEMATIC SHEET
MEASUREMENT CORP.	71	N/A	X	INSTRUCTION BOOK
MEASUREMENT CORP.	80	N/A	E	OPERATING INSTRUCTIONS
MEASUREMENT CORP.	84	N/A	E	OPERATING INSTRUCTIONS
MEASUREMENT CORP.	59	N/A	X	OPERATING MANUAL
MEASUREMENTS GROUP	2311	N/A	E	INTRODUCTION
MEASUREMENTS GROUP	1550A	N/A	N/A	INTRODUCTION
MEASUREMENTS GROUP	P3500	N/A	S	INTRODUCTION
MEASUREMENTS GROUP	SB-10	N/A	E	M00850/SWITCH AND BALANCE UNIT
MEASUREMENTS GROUP	P-3500	N/A	N/A	M00851/DIGITAL STRAIN INDICATOR
MEASUREMENTS GROUP INC	1300	N/A	B	INSTRUCTION MANUAL WITH SCHEMATIC
MEASUREMENTS TECH.	BAF-8	N/A	TECHNICAL	INTRODUCTION
MEDISTOR	P-10	N/A	TECHNICAL	N/A
MEG	C-6912	20-003	SOFTWARE	COLOR MONITOR
MEG	7200	20-001	TECHNICAL	GRAPHICS SYSTEM
MEG	7000	0250-0067-00	SCHEMATICS	PART I
MEG	7000	0250-0072-00	SCHEMATICS	PART II
MEG	WHIZZARD GRAPHIC	0252-0027-00	N/A	SUPPORT WHIZ. GRAPHICS SYSTEMS
MEG	7000	7000	TECHNICAL	N/A
MEG	MG-72XX	MEG72XX	X	N/A
MELCOR ELECTRONICS	OP AMP SERIES	N/A	X	SPECIFICATIONS
MELLES GRIOT	05SGR871	N/A	X	OPERATORS
MELLES GRIOT	IRENE LASER	N/A	B	N/A
MENLO PARK ENG.	732A	N/A	N/A	INSTRUCTIONS MANUAL
MENSOR	11600	N/A	N/A	OPERATION AND SERVICE MANUAL
MENSOR	11900	N/A	B	OPERATION AND SERVICE MANUAL
MENSOR	1000	N/A	B	N/A
MENSOR	11600	N/A	B	N/A
MENSOR	QM	N/A	SERVICE	N/A
MET ONE	200-1-115	N/A	INSTRUCTION	OPERATION
MET ONE	200	N/A	N/A	OPERATION/SERVICE
MET ONE	200	N/A	SERVICE COPY	SERVICE
MET ONE INC.	083D	N/A	X	RH/TEMP SENSOR CAL PROCEDURE
MET ONE INC.	DPS3D	N/A	X	OPERATORS
METEOROLOGY RESEARCH	302	N/A	E	INSTRUCTIONS MANUAL
METRA INST. INC.	M/S 20D	N/A	U	INSTRUCTIONS MANUAL
METRAPLEX	00-2266	N/A	K	ACCEPTANCE TEST PROCEDURE
METRAPLEX	46-2292	N/A	K	ACCEPTANCE TEST PROCEDURE
METRAPLEX	300	N/A	E	APPLICATION
METRAPLEX	300W	N/A	E	APPLICATION
METRAPLEX	300	N/A	E	INSTRUCTION
METRAPLEX	381/381H	N/A	E	INSTRUCTION
METRAPLEX	381/381H	N/A	E	INSTRUCTION
METRAPLEX	PCM-10	N/A	E	INSTRUCTION AND SERVICE
METRAPLEX	PCM-30	N/A	X	INSTRUCTION AND SERVICE
METRAPLEX	101 108 151	N/A	K	OPERATION
METRAPLEX	184 185 186	N/A	E	OPERATION
METRAPLEX	300	N/A	E	PARTS
METRAPLEX	300W	N/A	E	PARTS
METRAPLEX	46-2292	N/A	X	START UP
METRAPLEX	114	N/A	X-K	N/A
METRAPLEX	120	N/A	K	N/A
METRAPLEX	120	N/A	K	N/A
METRAPLEX	132	N/A	X	N/A
METRAPLEX	161	N/A	K	N/A
METRAPLEX	161	N/A	K	N/A
METRAPLEX	162	N/A	K	N/A
METRAPLEX	760183	N/A	X	N/A
METRAPLEX	130 & 131	N/A	K	N/A
METRAPLEX	141 & 142	N/A	X-K	N/A
METRAPLEX	151-01 & 151-02	N/A	X-K	N/A
METRAPLEX	181 182 & 183	N/A	U	N/A
METRAPLEX	184 185 & 186	N/A	E	N/A
METRASCOPE	M/S 20D	N/A	OPERATORS	INSTRUCTION
METRIX INST. CO.	5238-01 02 71 72	N/A	E	N/A
METRO TEK	MP203	N/A	D	OPERATORS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
METRODATA	DL602A/B	N/A	D	OPERATION AND MAINTENANCE
METROLOGIC	800 SERIES	N/A	N/A	OPERATING INSTRUCTIONS
METROLOGIC	ML-600 & 900	N/A	K	N/A
METROLOGY RESEARCH	1053 III-2	N/A	OPERATIONAL	N/A
METROSONICS INC.	HS371	N/A	N/A	HEAT STRESS MONITOR
METROTECH	810/850 LINE	N/A	K	FIELD SERVICE
METROTEK	MR-106	N/A	K	INSTRUCTION MANUAL
METROTEK INC.	MR106	N/A	N/A	2 MANUALS
METROTEK INC.	MD702	N/A	K	N/A
METROTEK INC.	MR101	N/A	K	N/A
METROTEK INC.	PR SERIES100	N/A	Q-X	N/A
METRUM-DATATAPE	RSR512	N/A	TECHNICAL	MAINTENANCE INSTRUCTIONS
METTLER	PM 100	N/A	SERVICE	N/A
MFT	9914R	CM 1077	OPERATING/SERVICE	9914 SATREAMER USER/DIAGNOSTIC MANUAL
MFT	9914R	A121789	DIAGNOSTIC	PERTEC CACHE PCB SPEC MANUAL
MFT	9914R	CM1078	USER GUIDE	SERVICE MANUAL
MGB	2001	2001	OPERATOR	FOR 2001 VIDEO SYSTEM
MGB	MEGASCREEN	MEGASCREEN	TECHNICAL	FOR ALL MEGASCREEN DISPLAYS
MGB	2400	00045003 REV.B	USERS MANUAL	FOR M2400 SERIES MONITOR
MGB	MEGASCREEN II	4605-0010	TECHNICAL	GRAPHICS CONTROLLER FOR MAC PLUS
MGB	MEG SCREEN SE	MEGASCREEN-MAC	INSTALLATION	GRAPHICS CONTROLLER FOR MACSE
MGX	CM8562	6523	SERVICE	SCHEMATICS SERVICE DATA MOST MGX'S
MGX	8CM5400741	6527	TECHNICAL	SERVICE DATA
MGX	8CM5400741	6527	SERVICE	TECHNICAL SERVICE DATA SCHEMATICS
MGZ	SIR 01	300127REV1991	SCHEMATICS	MAINT & ALIGNMENT PROCEDURES
MGZ	SIR01	300127	OPERATOR	MAINTENANCE MANUAL WITH SOFTWARE
MGZ	SIR01	300176	X	SCHEMATICS
MGZ	S1R01	300127 VER 03F	SERVICE	SOLITAIRE MAINT TECH + SCHEMATICS
MGZ	SIR01	300215	X	USER'S MANUAL
MHD RESEARCH	V-M3	N/A	X	SCHEMATIC
MICOM	3100	N/A	Q	N/A
MICOM	8200/8200W	N/A	X	N/A
MICOM	INSTAMUX 470	N/A	X	N/A
MICRO INSTRUMENTS	5201B	N/A	X-K	N/A
MICRO LAB	FXR	N/A	X-K	N/A
MICRO MATCH	MM 2 3 4 5	N/A	X-K	N/A
MICRO MATCH	MM 272 & 252	N/A	L	N/A
MICRO MATCH	MM 560	N/A	E	N/A
MICRO MOTION	B25-AF	N/A	E	N/A
MICRO TECHNICAL	810	N/A	E	OPERATION AND MAINTENANCE
MICRO TECHNICAL	810	N/A	K	OPERATION AND MAINTENANCE
MICRO TECHNICAL	810	N/A	K	OPERATION AND MAINTENANCE
MICRO TECHNICAL	35B/AB	N/A	E	OPERATION AND MAINTENANCE
MICRO/GEE PRODUCTS	72A100	N/A	X	SCHEMATICS INCLUDED
MICRODOT MAGNETICS	13450	N/A	J-K	N/A
MICRODYNE CORP.	1194-IU	N/A	K	N/A
MICRODYNE INST.	1142-D	N/A	K	2 MANUALS
MICRODYNE INST.	100-300 750	N/A	K	N/A
MICRODYNE INST.	1100(A)SERIES	N/A	K	N/A
MICRODYNE INST.	1100-AR(F)	N/A	J-K	N/A
MICRODYNE INST.	1100-R	N/A	J-K	N/A
MICRODYNE INST.	1112-VT(10)	N/A	K	N/A
MICRODYNE INST.	1120-2(3)	N/A	K	N/A
MICRODYNE INST.	1143-D(F)	N/A	K	N/A
MICRODYNE INST.	1161-S	N/A	X	N/A
MICRODYNE INST.	1161-S(A)	N/A	K	N/A
MICRODYNE INST.	721A	N/A	X	N/A
MICROGEN	MG-200	N/A	F	N/A
MICRO-NOW INST. CO.	210	N/A	J	N/A
MICRO-NOW INST. CO.	760	N/A	X	N/A
MICRO-NOW INST. CO.	202A	N/A	X-K	N/A
MICROSEN	143LA	N/A	F	N/A
MICRO-TELCORP.	PSG-10A	N/A	X	N/A
MICROTIME	2100	N/A	J	N/A
MICROWAVE ASS. INC.	MA-2A/4A/7A	N/A	X	N/A
MICROWAVE DIST.	CATALOG	N/A	B	N/A
MID-EASTERN ELECT.	S7 36-15	N/A	K	N/A
MID-WEST	105	N/A	G	N/A
MIDWESTERN	800	N/A	G	2 MANUALS
MIKRON	65	N/A	G	OPERATION
MIKRON	65	N/A	G	OPERATION
MIKRON	M300	N/A	G	OPERATION
MIKRON	M300	N/A	K	OPERATION
MIKRON	77/78 SERIES	N/A	G	SERVICE
MIKRON	M300	N/A	G	SERVICE
MIKRON	M300	N/A	K-J	SERVICE
MILLEN	90651	N/A	K	3 MANUALS
MILLER	A-2	N/A	K	N/A
MILLER	A-3	N/A	K	N/A
MILLER	C-2	N/A	X	N/A
MILLER	C-3	N/A	X	N/A
MILLIVAC	MV27D	N/A	K	OPERATION
MILLIVAC	MV-17C	N/A	E	N/A
MILLIVAC	MV-27C	N/A	T	N/A
MINCO	RTB8078	N/A	K	OPERATION/SERVICE
MINCOM (3M)	6100A	N/A	TECHNICAL	2 MANUALS
MINCOM (3M)	610-A	N/A	TECHNICAL	N/A
MIP	MDX-FLP	4420302	SERVICE	APPLICATION NOTE #6
MIP	MDX-FLP	4420318	SEE AED 310	APPLICATION NOTE #8
MIP	XX/XX	440048	Q	CUST. WARR/SERV POLICY
MIP	16/64	4420261	OPERATOR	SCHEMATICS + MDX-CPU3
MIP	16/64	4420262	TECHNICAL	SCHEMATICS + MDX-FLP2
MIP	16/64	MK79780	TECHNICAL	SCHEMATICS + MDX-INT MK79780
MIP	MDX-CPU3	4420261	TECHNICAL	TECH MANUAL + SCHEMATICS
MIP	MDX-CPU3	4420301	TECHNICAL	N/A
MITC	C3919N	REF	L	N/A
MITSUBISI ELECTRIC	M2894-63	N/A	B	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
MKS	77H/M	N/A	N/A	2 MANUALS
MKS	77	N/A	B	INSTRUCTION
MKS	170	N/A	B	INSTRUCTION
MKS	126-PS	N/A	B	INSTRUCTION
MKS	170M-6B	N/A	B	INSTRUCTION
MKS	247C	N/A	B	INSTRUCTION
MKS	PRES. TRANS. SYS	N/A	B	INSTRUCTION
MKS	PRES. TRANS. SYS	N/A	E	INSTRUCTION
MKS	PRES. TRANS. SYS	N/A	SERVICE	INSTRUCTION
MKS	77	N/A	L	N/A
MKS	170	N/A	E	N/A
MKS	200	N/A	L	N/A
MKS	222	N/A	L	N/A
MKS	245	N/A	E	N/A
MKS	246	N/A	B	N/A
MKS	288	N/A	B	N/A
MKS	390	N/A	B	N/A
MKS	398	N/A	B	N/A
MKS	400	N/A	B	N/A
MKS	590	N/A	B	N/A
MKS	598	N/A	E	N/A
MKS	2154	N/A	L	N/A
MKS	2154	N/A	L	N/A
MKS	2156	N/A	L	N/A
MKS	2158	N/A	L	N/A
MKS	100A	N/A	B	N/A
MKS	102A	N/A	L	N/A
MKS	110A	N/A	L	N/A
MKS	1159B	N/A	L	N/A
MKS	1160B	N/A	B	N/A
MKS	1161B	N/A	B	N/A
MKS	122A	N/A	L	N/A
MKS	122A	N/A	L	N/A
MKS	1258B	N/A	E	N/A
MKS	1259B	N/A	B	N/A
MKS	126A	N/A	E	N/A
MKS	2159B	N/A	L	N/A
MKS	2160B	N/A	B	N/A
MKS	2161B	N/A	B	N/A
MKS	220C	N/A	B	N/A
MKS	221A	N/A	B	N/A
MKS	222B	N/A	L	N/A
MKS	2258B	N/A	L	N/A
MKS	2259B	N/A	L	N/A
MKS	244A	N/A	L	N/A
MKS	248A/B/C	N/A	B	N/A
MKS	250C	N/A	L	N/A
MKS	252A	N/A	L	N/A
MKS	253A	N/A	L	N/A
MKS	258B	N/A	L	N/A
MKS	259B	N/A	B	N/A
MKS	270B	N/A	B	N/A
MKS	77H	N/A	L	N/A
MKS	77M	N/A	B	N/A
MKS	NOTES&BULLETINS	N/A	B	N/A
MKS	PDR	N/A	E	N/A
MKS	PDR-C-1C/2C	N/A	E	N/A
MKS	PVS-6	N/A	OPERATOR	N/A
MMP	MCS300/5400	075-04064-00-0	PROGRAM	MAINTENANCE MANUAL
MMP	5600/6600	075-01011-00-0	TECHNICAL	PROGRAMMER MANUAL VOLUME A
MMP	UNIX	075-01012-00-0	TECHNICAL	PROGRAMMER'S MANUAL VOLUME 1B
MMP	UNIX	075-01011-00-0	MAINTENANCE & TRAINING	PROGRAMMER'S MANUAL VOLUME 1A
MMP	5500	MCS500	PROGRAMMERS	STUDENT GUIDE
MMP	VARIOUS	UNIX	MAINTENANCE	STUDENT HANDOUT
MMP	5600/6600	075-00003-00-0	PROGRAM	SYSTEM-MANAGER GUIDE
MMP	MCS600/5700	075-04063-00-0	PROGRAM	TECHNICAL
MMP	5600/6600	075-01012-00-0	TECHNICAL	UNIX PROGRAMMERS VOLUME 1B
MND	MM212	100409-1	ENGINEERING	FIXED DISKDRIVE FOR PC'S
MNY	MT730/735	MT730	ENGINEERING	TECHNICAL/SERVICE
MOD	CLASSIC 32	226-725002-000	ENGINEERING	16 BIT INSTRUCTION SET
MOD	32/87	32/87-1601	PROGRAM	16BIT MICRO CODE 4DIV87
MOD	32/87	32/87-1603	PROGRAM	16BIT MICRO CODE 4FP87
MOD	32/87	32/87-1607	INSTALLATION	16BIT MICRO CODE 4GEN87
MOD	32/87	32/87-1606	PROGRAM	16BIT MICRO CODE 4IOC87
MOD	32/87	32/87-1604	PROGRAM	16BIT MICRO CODE 4MEM87
MOD	32/87	32/87-1608	DIAGNOSTIC	16BIT MICRO CODE 4MTH87
MOD	32/87	32/87-1602	PROGRAM	16BIT MICRO CODE 4SP87
MOD	32/87	32/87-1605	PROGRAM	16BIT MICRO CODE 4STK87
MOD	32/87	32/87-3205	PROGRAM	16BIT MICRO CODE 5STK87
MOD	CLASSIC 32	226-725001-000	ENGINEERING	32 BIT INSTRUCTION
MOD	CPU 32/85	226-724001-000	ENGINEERING	32 BIT MACHINE NODE
MOD	32/87	32/87-3205	PROGRAM	32 BIT MICRO CODE 5STK87
MOD	32/85	219-724002-000	PROGRAM	32/85 16BIT FIRMWARE LISTING
MOD	32/87	219-724003-000	PROGRAM	32/85 32BIT FIRMWARE LISTINGS
MOD	32/87	32/87-OVERLAY	PROGRAM	32/87 MEMORY OVERLAY DIAGNOSTICS-LB
MOD	32/87	524-100102	PROGRAM	32/87 ROM LISTINGS
MOD	MEMORY	220-800020-000	DIAGNOSTIC	32/XX MEMORY-LB
MOD	MEMORY	220-800020-000	ENGINEERING	32/XX MEMORY-LB
MOD	32/87	32/87-3201	LOGIC	32BIT MICRO CODE 5DIV87
MOD	32/87	32/87-3203	PROGRAM	32BIT MICRO CODE 5FP87
MOD	32/87	32/87-3207	PROGRAM	32BIT MICRO CODE 5GEN87
MOD	32/87	32/87-3206	PROGRAM	32BIT MICRO CODE 5IOC87
MOD	32/87	32/87-3204	PROGRAM	32BIT MICRO CODE 5MEM87
MOD	32/87	32/87-3208	PROGRAM	32BIT MICRO CODE 5MTH87
MOD	32/87	32/87-3202	PROGRAM	32BIT MICRO CODE 5SP87
MOD	4143	250-200000-308	ENGINEERING	3330 DISC CTRL.-LB
MOD	MEMORY	220-140000-003	ENGINEERING	3692 (CHAN 4 ONLY)-LB

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
MOD		3694	225-303003-G00	ENGINEERING	3694/3689-4 THEORY-LB
MOD		CL II	221-303001-001	ENGINEERING	3695 MEMORY-LB
MOD		CL II/75	224-303001-G00	SCHEMATICS	3695-X THEORY
MOD		4143A	225-200119-001	TECHNICAL	4143A THEORY OF OPERATION-LB
MOD		3692	225-200205-002	ENGINEERING	512KB RAM-LB
MOD		3692	225-200205-001	SCHEMATICS	512KB RAM-LB
MOD		3692	225-200205-002	SCHEMATICS	512KB RAM-LB
MOD		MVME710-B	MVME710B/D1	SCHEMATICS	8 CHAN I/O MODULE USER'S MANUAL
MOD		9230	527-100227-001	SCHEMATICS	9230 CPU PRINTS LONG BOOK
MOD		9230	228-728001-000	TECHNICAL	9230 INSTALLATION THEORY OF OPERATIONS
MOD		9250	527-100201-001	TECHNICAL	9250 CPU PRINTS LONG BOOK
MOD		9250	228-727001-000	INSTALLATION	9250 INSTALLATION THEORY OF OPERATIONS
MOD		92XX	229-732001-000	SCHEMATICS	92XX INSTALLATION INCLUDES IPS-2 LONG BOOK
MOD		92XX	527-100194-001	SCHEMATICS	92XX IOS PRINTS LONG BOOK
MOD		1100	516-100102	SCHEMATICS	APPLICABLE DCO'S
MOD		1110	516-100056	TECHNICAL	APPLICABLE DCO'S
MOD		1802	516-100592	ENGINEERING	APPLICABLE DCO'S
MOD		1815	516-100591	ENGINEERING	APPLICABLE DCO'S
MOD		1822	516-100451	ENGINEERING	APPLICABLE DCO'S
MOD		1842	516-100450	ENGINEERING	APPLICABLE DCO'S
MOD		1845	516-100533	TECHNICAL	APPLICABLE DCO'S
MOD		3516	516-100413	ENGINEERING	APPLICABLE DCO'S
MOD		3517	516-100519	TECHNICAL	APPLICABLE DCO'S
MOD		3692	516-100448	ENGINEERING	APPLICABLE DCO'S
MOD		3694	516-200201	ENGINEERING	APPLICABLE DCO'S
MOD		3695	516-100540	SERVICE	APPLICABLE DCO'S
MOD		3695	516-100540	TECHNICAL	APPLICABLE DCO'S
MOD		3765	516-100442	ENGINEERING	APPLICABLE DCO'S
MOD		3767	516-100541	ENGINEERING	APPLICABLE DCO'S
MOD		4138	516-100271	ENGINEERING	APPLICABLE DCO'S
MOD		4138	516-100272	SCHEMATICS	APPLICABLE DCO'S
MOD		4143	516-200193	DIAGNOSTICS	APPLICABLE DCO'S
MOD		4143	516-200193	TECHNICAL	APPLICABLE DCO'S
MOD		4176	516-300003	DIAGNOSTIC	APPLICABLE DCO'S
MOD		4176	516-200208	DIAGNOSTICS	APPLICABLE DCO'S
MOD		4176	516-200208	ENGINEERING	APPLICABLE DCO'S
MOD		4180	516-200206	SCHEMATICS	APPLICABLE DCO'S
MOD		4196	516-200207	SCHEMATICS	APPLICABLE DCO'S
MOD		4210	516-100279	SCHEMATICS	APPLICABLE DCO'S
MOD		4238	516-100539	DIAGNOSTICS	APPLICABLE DCO'S
MOD		4804	516-100512	DIAGNOSTICS	APPLICABLE DCO'S
MOD		4809	516-100629	DIAGNOSTIC	APPLICABLE DCO'S
MOD		4811	516-200041	PROGRAM	APPLICABLE DCO'S
MOD		4813	516-200038	DIAGNOSTIC	APPLICABLE DCO'S
MOD		4850	516-100435	SCHEMATICS	APPLICABLE DCO'S
MOD		4903	516-100152	ENGINEERING	APPLICABLE DCO'S
MOD		4906	516-200062	TECHNICAL	APPLICABLE DCO'S
MOD		4913	516-300020	PROGRAM	APPLICABLE DCO'S
MOD		5215	551-100290	SCHEMATICS	APPLICABLE DCO'S
MOD		5927	516-200209	SCHEMATICS	APPLICABLE DCO'S
MOD		5927	516-A00030	SCHEMATICS	APPLICABLE DCO'S
MOD		1810-1	516-100480	ENGINEERING	APPLICABLE DCO'S
MOD		1831 & 1832	516-100478	ENGINEERING	APPLICABLE DCO'S
MOD		1843 & 1844	516-100452	DIAGNOSTICS	APPLICABLE DCO'S
MOD		1843 & 1844	516-100523	ENGINEERING	APPLICABLE DCO'S
MOD		1907-A2	516-200180	DIAGNOSTIC	APPLICABLE DCO'S
MOD		375X	516-100145	ENGINEERING	APPLICABLE DCO'S
MOD		4146-1	516-100327	ENGINEERING	APPLICABLE DCO'S
MOD		4146-2	516-200199	ENGINEERING	APPLICABLE DCO'S
MOD		414X	516-100241	DIAGNOSTIC	APPLICABLE DCO'S
MOD		4410-1	516-100278	DIAGNOSTICS	APPLICABLE DCO'S
MOD		4805-1	516-200082	TECHNICAL	APPLICABLE DCO'S
MOD		4805-2	516-200196	TECHNICAL	APPLICABLE DCO'S
MOD		4806-6	516-100443	TECHNICAL	APPLICABLE DCO'S
MOD		4824A	516-100251	DIAGNOSTIC	APPLICABLE DCO'S
MOD		7810 CPU	516-100465	DIAGNOSTIC	APPLICABLE DCO'S
MOD		CL II/45 CPU	516-100487	TECHNICAL	APPLICABLE DCO'S
MOD		CL II/45 CTLPNL	516-100488	TECHNICAL	APPLICABLE DCO'S
MOD		CLASSIC CPU	516-100411	ENGINEERING	APPLICABLE DCO'S
MOD		CLASSIC DBIOP	516-100412	ENGINEERING	APPLICABLE DCO'S
MOD		CLASSIC PWR SUP	516-100418	ENGINEERING	APPLICABLE DCO'S
MOD		CLASSIC PWR SUP	516-100417	PROGRAM	APPLICABLE DCO'S
MOD		CPU BKPLANE	637-200017	ENGINEERING	APPLICABLE DCO'S
MOD		CTRL PNL	516-100422	DIAGNOSTIC	APPLICABLE DCO'S
MOD		CTRL PNL	516-100422	SCHEMATICS	APPLICABLE DCO'S
MOD		IOCP	516-100601	OPERATOR	APPLICABLE DCO'S
MOD		IODB	563-100070	SCHEMATICS	APPLICABLE DCO'S
MOD		ISP-1	516-100603	ENGINEERING	APPLICABLE DCO'S
MOD		ISP-2	516-100604	ENGINEERING	APPLICABLE DCO'S
MOD		ISP-3	516-100605	SCHEMATICS	APPLICABLE DCO'S
MOD		ISP-4	516-100606	TECHNICAL	APPLICABLE DCO'S
MOD		MAB	516-100619	ENGINEERING	APPLICABLE DCO'S
MOD		MCB	516-100621	DIAGNOSTIC	APPLICABLE DCO'S
MOD		MEM BKPLANE	637-200018	DIAGNOSTIC	APPLICABLE DCO'S
MOD		MMUC	516-100607	INSTALLATION	APPLICABLE DCO'S
MOD		MMUI	516-100608	INSTALLATION	APPLICABLE DCO'S
MOD		MODACS BAKPLANE	516-100494	DIAGNOSTIC	APPLICABLE DCO'S
MOD		MZB + MIB	516-100620	PROGRAM	APPLICABLE DCO'S
MOD		SBIOF	516-200186	INSTALLATION	APPLICABLE DCO'S
MOD		4807-X	225-200137-002	TECHNICAL	ASYNCH TERM CONTROL-LB
MOD		1905	210-361000-000	ENGINEERING	ASYNCH COMM-LB
MOD		1905	225-200140-003	TECHNICAL	ASYNCH COMM-LB
MOD		19XX	225-200140-002	OPERATOR	ASYNCH COMM-LB
MOD		4807X	225-200137-002	DIAGNOSTICS	ASYNCH TERM CTRL-LB
MOD		1905	225-200140-001	SCHEMATICS	ASYNCH COMM SUBSYS
MOD		4808	224-401001-000	ENGINEERING	ASYNCHRONOUS MODEM CTRL-LB
MOD		4808	221-401001-003	LOGIC	ASYNCHRONOUS MODEM CTRL-LB

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
MOD		4808	220-421005-005	SCHEMATICS	ASYNCHRONOUS MODEM CTRL-LB
MOD		4806-X	225-200136-001	SCHEMATICS	ATC CONTROLLER-LB
MOD		4807-X	220-800072-000	SCHEMATICS	ATC CTRL-LB
MOD		4806/07/08/09	220-800072-001	DIAGNOSTICS	ATC/AMC/OAI/MFC
MOD		4411-1/12-1	225-200071-002	TECHNICAL	CARD READER CTRL.
MOD		4410-1	225-200071-003	TECHNICAL	CARD READER CTRL.-LB
MOD		4411-1/12-1	225-200071-001	SCHEMATICS	CARD READER CTRL.-LB
MOD		4411-1/12-1	225-200071-003	SCHEMATICS	CARD READER CTRL.-LB
MOD		4412-1	225-200071-002	SCHEMATICS	CARD READER CTRL.-LB
MOD		92XX	527-100198-001	SCHEMATICS	CARTRIDGE INTERFACE PRINTS LONG BOOK
MOD		SBC	221-723001-003	ENGINEERING	CENT PROC - LB
MOD		8002	205-800000-001	DIAGNOSTIC	CLASS DIAGNOSTIC
MOD		MAXIV/MAX32	206-838001-A01	ENGINEERING	CLASSIC 32 SERIES CONVERSION GUIDE
MOD		3695-1-2-3	M20-303001-G00	TECHNICAL	CLASSIC II CP - LB
MOD		3695-X	224-303001-G00	SCHEMATICS	CLASSIC II MEMORY-LB
MOD		3695-X	221-303001-G00	TECHNICAL	CLASSIC II MEMORY-LB
MOD		3695-X	M24-303001-G00	DIAGNOSTICS	CLASSIC II-LB
MOD		3695-X	M21-303001-G00	TECHNICAL	CLASSIC II-LB
MOD		4912/4913	225-200223-102	LOGIC	CLASSIC PERIPH SLCT LB
MOD		4810	225-200135-002	DIAGNOSTICS	COMM INTFC.-LB
MOD		4810	225-200135-003	TECHNICAL	COMM INTF.-LB
MOD		4805-1	225-200125-001	TECHNICAL	COMPUTER LINK-LB
MOD		78XX 92XX 32/87	220-800039-000	DIAGNOSTIC	CONSOLE KEYBOARD
MOD		375X	220-800039-000	DIAGNOSTICS	CONSOLE KYBD-LB
MOD		4143(A)	225-200117-003	TECHNICAL	CONTROLLER 41XX SERIES DISKS-LB
MOD		CLASSIC	220-140000-002	PROGRAM	CPU PART 1 OF 3-LB
MOD		CLASSIC	220-140000-002	PROGRAM	CPU PART 2 OF 3-LB
MOD		CLASSIC	220-140000-002	SCHEMATICS	CPU PART 2 OF 3-LB
MOD		CLASSIC	220-140000-002	SCHEMATICS	CPU PART 3 OF 3-LB
MOD		78XX 92XX 32/87	220-800010-001	OPERATOR	CPU PARTS 1 THRU 6
MOD		CL II/75	221-722001-001	TECHNICAL	CPU-LB
MOD		DCS-X	220-800081-000	TECHNICAL	DCS
MOD		DCS-8	A503-115/91-04	DIAGNOSTIC	DCS-8 LOGIC PRINTS
MOD		4143	225-200117-001	SCHEMATICS	DISC CONTROLLER
MOD		4143	225-200117-001	SCHEMATICS	DISC CONTROLLER 4138-X-LB
MOD		4176-A	221-404009-005	ENGINEERING	DISC CTRL-LB
MOD		4176-A	220-800041-001	TECHNICAL	DISC CTRL-LB
MOD		4176-A	224-404009-004	TECHNICAL	DISC CTRL-LB
MOD		4180-X	224-404008-001	DIAGNOSTIC	DISC CTRL-LB
MOD		4180-X	221-404008-004	DIAGNOSTICS	DISC CTRL-LB
MOD		4180-X	220-800041-001	SCHEMATICS	DISC CTRL-LB
MOD		4180X	221-404008-002	DIAGNOSTIC	DISK CONT. LONG BOOK
MOD		4176	225-200215-102	ENGINEERING	DISK CONTROLLER LB
MOD		4176	225-200215-102	ENGINEERING	DISK CONTROLLER-LB
MOD		4138A	225-200119-002	TECHNICAL	DISK CONTROLLER-LB
MOD		4143A	225-200119-001	SCHEMATICS	DISK CONTROLLER-LB
MOD		4180-X	221-404008-002	SCHEMATICS	DISK CONTROLLER-LB
MOD		4176	220-800041-001	TECHNICAL	DISK-LB
MOD		4180-X	220-800041-001	SCHEMATICS	DISK-LB
MOD		4411-1/12-1	225-200071-002	SCHEMATICS	DMP C/R CTRL.-LB
MOD		4210-1	225-200091-002	DIAGNOSTICS	DMP L/P CTRL.-LB
MOD		VME	200-430002-000	INSTALLATION	DR11W INTERFACE GUIDE
MOD		4936	225-200030-001	PROGRAM	DRIVER/RECEIVER-LB
MOD		4936	225-200030-002	SCHEMATICS	DRIVER/RECEIVER-LB
MOD		CL II/75	224-323001-003	TECHNICAL	EAU - MODEL 3516
MOD		3516 3517	220-800031-000	SCHEMATICS	EAU AND FPU
MOD		CL II	221-323001-002	ENGINEERING	EAU-LP
MOD		78X 92X 32/87	220-800001-001	DIAGNOSTIC	EDAX
MOD		92XX	527-100245-001	DIAGNOSTICS	EFFX PRINT LONG BOOK
MOD		5927	225-900006-002	DIAGNOSTICS	ENGINEERING DRAWINGS
MOD		4912/4913	221-423006-002	TECHNICAL	ENGINEERING DRAWINGS -LB
MOD		4186	228-404015-001	DIAGNOSTIC	ENHANCED CLASSIC MHD CONTROLLER LB
MOD		4186	218-404015-000	INSTALLATION	ENHANCED MHD CONTROLLER LB
MOD		TCP/IP VLAN-E	211-114010-000	CATALOG	EPROM TCP/IP VLAN-E AND MLAN USER REF MAN
MOD		1980	229-421009-000	SCHEMATICS	ETHERNET-LB
MOD		1980	229-421009-000	SCHEMATICS	ETHERNET-LB
MOD		1980	218-421009-000	TECHNICAL	ETHERNET-LB
MOD		1980	220-800075-000	TECHNICAL	ETHERNET-LB
MOD		92XX 32/87 7870	515-100357-001	INSTALLATION	EXT P1 REMOTE FILL PRINTS LONGBOOK
MOD		4186	220-800041-001	DIAGNOSTICS	EXT. MHD CTRL - LB
MOD		EDAX	220-800001-000	TECHNICAL	EXTENDED DIAGNOSTIC APPLICATION EXEC.
MOD		MVME332XT	MVME332XTFW/D2	ENGINEERING	FIRMWARE USER'S MANUAL
MOD		92XX	527-100204-001	SCHEMATICS	FPX PRINTS LONG BOOK
MOD		5198	111-A00030-001	OPERATOR	GP1B-LB
MOD		92XX	526-100197-001	SCHEMATICS	GR32 BACKPLANE PRINTS LONG BOOK
MOD		92XX	527-100230-001	SCHEMATICS	GR32 INVALIDATE TERMINATOR PRINTS LONG
MOD		SCSI	200-430009-000	TECHNICAL	GUIDE TO VME MODULES - SCSI ADAPTER
MOD		MVME332XT	200-430010-000	OPERATOR	GUIDE TO VME MODULES INTELLIGENT COMM
MOD		VME	200-430001-000	TECHNICAL	GUIDE TO VME MODULES INTRODUCTION
MOD		4805-X	565-A00041	DIAGNOSTIC	H.S. MOD-LB
MOD		5927	220-800069-000	ENGINEERING	H.S. SER. LINK-LB
MOD		5927	225-900096-002	OPERATOR	H.S. SER. LINK-LB
MOD		5927	220-800069-000	SCHEMATICS	H.S. SER. LINK-LB
MOD		5927	225-900006-002	DIAGNOSTICS	H.S.SERIAL LINK-LB
MOD		5927	5927-USER	OPERATOR	H.S.SERIAL LINK-LB
MOD		4821X	225-200128-001	SERVICE	HI SPEED SER LINK
MOD		5927	220-800069-000	TECHNICAL	HIGH SPEED LINK-LB
MOD		4805-2	565-A00029	SCHEMATICS	HIGH SPEED MOD.-LB
MOD		4821 4824 5927	220-800069-000	TECHNICAL	HIGH SPEED SERIAL LINK
MOD		5927	225-900006-001	SCHEMATICS	HIGH SPEED SERIAL LINK-LB
MOD		5927-X	225-900006-002	ENGINEERING	HIGH SPEED SERIAL LINK-LB
MOD		11XX	225-200150-002	DIAGNOSTIC	I/O SUBSYSTEM-LB
MOD		5198	111-A00032-001	SCHEMATICS	IEEE HANDLER-LB
MOD		5198	111-A00033-001	SCHEMATICS	IEEE HANDLER-LB
MOD		4830	218-114007-000	ENGINEERING	IEEE PCE CONTROLLER
MOD		IEEE-488 5010	200-430003-000	ENGINEERING	IEEE-488 INTERFACE GUIDE
MOD		4830	229-114007-000	DIAGNOSTIC	IEEE-488-LB

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
MOD		4830	220-800074-000	INSTALLATION	IEEE-488-LB
MOD		4830	228-114007-000	SCHEMATIC	IEEE-488-LB
MOD		5198	260-504011-000	DIAGNOSTICS	IEEE-488-LB
MOD		5198	260-504011-000	DIAGNOSTICS	IEEE-488-LB
MOD		5198	261-504011-000	DIAGNOSTICS	IEEE-488-LB
MOD		5198	264-504001-000	DIAGNOSTICS	IEEE-488-LB
MOD		5198	261-501011-000	ENGINEERING	IEEE-488-LB
MOD		5198	261-504011-000	OPERATOR	IEEE-488-LB
MOD		5198	264-504001-000	TECHNICAL	IEEE-488-LB
MOD		5198	264-504011-000	SCHEMATICS	IEEE-LB
MOD		5198	509-A00133-002	SCHEMSTICS	IEEE-LB
MOD		5198	260-504011-000	TECHNICAL	IEEE-LB
MOD		5198	261-504011-000	TECHNICAL	IEEE-LB
MOD		IEEE	MC1.1-1975	DIAGNOSTIC	IEEE-LB
MOD		IEEE	111-A00033-001	INSTALLATION	IEEE-LB
MOD		IEEE	111-A00032-001	PROGRAM	IEEE-LB
MOD		32/8X	32/87-008	PROGRAM	IMEX1 2 3 4 IOCTST1 2
MOD		11XX	225-200150-002	ENGINEERING	INPUT/OUTPUT
MOD		11XX	225-200150-001	SCHEMATICS	INPUT/OUTPUT
MOD		11XX	225-200150-003	SCHEMATICS	INPUT/OUTPUT
MOD		9250	228-732001-000	SCHEMATICS	INSTALLATION & THEORY OF OPERATIONS
MOD		MVME332XT	MVME332XT/D2	OPERATOR	INTELLIGENT COMM CTRLR USER'S MANUAL
MOD		VME	200-430010-000	TECHNICAL	INTELLIGENT COMMUNICATION CONT.GUIDE
MOD		VME	200-430004-000	INSTALLATION	INTELLIGENT ETHERNET INTERFACE GUIDE
MOD		SCSI	200-430009-000	OPERATOR	INTELLIGENT SCSI BUS ADAPTOR GUIDE
MOD		VME	200-430005-000	OPERATOR	INTERRUPT EXPANDER GUIDE
MOD		11XX	225-200150-003	SCHEMATICS	IOIS DIAGNOSTICS-LB
MOD		11XX	225-200150-001	ENGINEERING	IOIS THEORY-LB
MOD		11XX	225-200150-001	TECHNICAL	IOIS THEORY-LB
MOD		5198	589-A00001-001	TECHNICAL	IOIS-IEEE MODIFICATION
MOD		11XX	225-200150-002	SCHEMATICS	IOIS-LB
MOD		78XX 92XX 32/87	220-800030-000	DIAGNOSTIC	IOP
MOD		CL II/75	224-321001-001	SCHEMATICS	IOP
MOD		CL II	224-321001-001	DIAGNOSTIC	IOP THEORY-LB
MOD		CL II	220-800030-000	SCHEMATICS	IOP-LB
MOD		CL II	221-321001-001	SCHEMATICS	IOP-LB
MOD		CL II	221-321001-003	TECHNICAL	IOP-LB
MOD		IPS-2	220-80035-001	DIAGNOSTIC	IPS-2 DIAGNOSTIC MANUAL
MOD		IPS-2	220-800096-000	OPERATOR	IPS SUBSYSTEM EXERCISE
MOD		2402-4	MM6216D	OPERATOR	IPS-2 CACHE MEMORY USER'S GUIDE
MOD		IPS-2	229-111002-002	OPERATOR	IPS-2 INSTALLATION
MOD		2406-1-X	21017700	OPERATOR	IPS-2 SCSI HBA DISK CTRLR
MOD		2486-2-X	240-100162-001	PROGRAM	IPS-2 SMD DISK CTRLR USER'S GUIDE
MOD		IPS-2	213-111005-001	OPERATOR	IPS-2 SYSTEM GUIDE
MOD		2446-1	21014000	PROGRAM	IPS-2 VME TAPE CTRLR
MOD		4185	221-404011-000	DIAGNOSTIC	LB
MOD		4185	224-404011-000	SCHEMATICS	LB
MOD		4185	220-404011-000	TECHNICAL	LB
MOD		4238	224-408005-001	DIAGNOSTIC	LB
MOD		4238	221-408005-002	TECHNICAL	LB
MOD		4806	221-421005-005	SCHEMATICS	LB
MOD		4809+/1889	221-421007-001	TECHNICAL	LB
MOD		4238 4210	220-800051-002	ENGINEERING	LINE PRINTER
MOD		4210-1	225-200091-002	TECHNICAL	LINE PRINTER CTRLR.
MOD		4211-2/14-2	225-200091-001	DIAGNOSTICS	LINE PRINTER CTRLR.
MOD		421X	220-800051-000	DIAGNOSTICS	LINE PRINTER CTRLR.LB
MOD		421X	225-200091-001	SCHEMATICS	LINE PRINTER CTRLR.LB
MOD		4211	225-200091-001	TECHNICAL	LINE PRINTER CTRLR.-LB
MOD		4211	225-200091-003	TECHNICAL	LINE PRINTER CTRLR.-LB
MOD		421X	220-800051-000	TECHNICAL	LINE PTR CTRLR.-LB
MOD		4185	221-404011-001	LOGIC	LONG BOOK
MOD		4805	225-427001-G01	ENGINEERING	LONG BOOK
MOD		4805	220-800060-000	TECHNICAL	LONG BOOK
MOD		4806	220-800072-000	DIAGNOSTIC	LONG BOOK
MOD		4806	224-421005-002	ENGINEERING	LONG BOOK
MOD		4903	M25-200020-001	ENGINEERING	LONG BOOK
MOD		4903	M25-200020-002	SCHEMATICS	LONG BOOK
MOD		4906	225-200035-001	ENGINEERING	LONG BOOK
MOD		4936	M25-200030-002	SCHEMATICS	LONG BOOK
MOD		4936	M25-200030-001	TECHNICAL	LONG BOOK
MOD		5213	520-A00007-002	DIAGNOSTICS	LONG BOOK
MOD		5213	509-A00001-001	SCHEMATICS	LONG BOOK
MOD		5213	509-A00001-001	TECHNICAL	LONG BOOK
MOD		5215	520-102054-002	DIAGNOSTICS	LONG BOOK
MOD		5215	509-A00000-001	ENGINEERING	LONG BOOK
MOD		5215	111-607898-001	TECHNICAL	LONG BOOK
MOD		5215	509-A00000-001	TECHNICAL	LONG BOOK
MOD		32/87	229-725001-000	PROGRAM	LONG BOOK
MOD		4143/43A	225-200117-003	TECHNICAL	LONG BOOK
MOD		4185-X	220-404011-000	INSTALLATION	LONG BOOK
MOD		4197/4198	221-406008-000	SCHEMATICS	LONG BOOK
MOD		4197/4198	224-406008-001	TECHNICAL	LONG BOOK
MOD		4805-2	220-800060-000	TECHNICAL	LONG BOOK
MOD		4805-X	220-800060-000	SCHEMATICS	LONG BOOK
MOD		4806-H	220-800072-000	DIAGNOSTIC	LONG BOOK
MOD		5215/4906	111-A00062-001	TECHNICAL	LONG BOOK
MOD		PSC	520-A00003-001	TECHNICAL	LONG BOOK
MOD		4806	225-200136-002	DIAGNOSTICS	LONGBOOK
MOD		4821	111-A00070-001	SCHEMATICS	LONGBOOK
MOD		4903	225-200020-002	TECHNICAL	LONGBOOK
MOD		4911	221-423004-G00	TECHNICAL	LONGBOOK
MOD		4911	224-423004-G00	TECHNICAL	LONGBOOK
MOD		4911	225-200210-002	TECHNICAL	LONGBOOK
MOD		5927	225-900006-002	DIAGNOSTICS	LONGBOOK
MOD		5927	225-900006-001	SCHEMATICS	LONGBOOK
MOD		19XX	225-200140-002	SCHEMATICS	LONGBOOK
MOD		421X	225-200075-002	ENGINEERING	LONGBOOK



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION	
MOD		421X	225-200085-002	SCHEMATICS	LONGBOOK
MOD		4805/4820	225-200125-002	LOGIC	LONGBOOK
MOD		4805-2	225-427001-G01	ENGINEERING	LONGBOOK
MOD		4810/1/3/5/7	225-200135-001	ENGINEERING	LONGBOOK
MOD		4810/1/3/5/7	225-200135-002	ENGINEERING	LONGBOOK
MOD		4810/1/3/5/7	225-200135-003	SERVICE	LONGBOOK
MOD		4821X	225-200128-002	ENGINEERING	LONGBOOK
MOD		4238	224-408005-001	ENGINEERING	LPTR CTRL-LB
MOD		4238	220-800051-000	TECHNICAL	LPTR CTRL-LB
MOD		4145	225-200096-001	SCHEMATICS	MAG TAPE CTRL-LB
MOD		4146-1	225-200101-002	TECHNICAL	MAG TAPE CTRL-LB
MOD		41XX	225-200101-001	SCHEMATICS	MAG TAPE CTRL-LB
MOD		92XX	527-100199-001	SCHEMATICS	MAINTENANCE CONSOLE PRINTS LONG BOOK
MOD		32/87	218-725001-001	PROGRAM	MAINTENANCE DRAWINGS-LB
MOD		JAWS	JAWS	SCHEMATICS	MEM PWR SUP-LB
MOD		92XX	527-100247-001	DIAGNOSTICS	MEMORY ARRAY PRINTS LONG BOOK
MOD		78XX 92XX 32/87	220-800020-000	DIAGNOSTIC	MEMORY FOR 32/87 3695 3696 SINGLE BOARD
MOD		92XX	515-100658-001	SCHEMATICS	MEMORY INTERFACE TERMINATOR PRINTS LONG
MOD		92XX	527-100210-001	SCHEMATICS	MEMORY RS422 INTERFACE PRINTS LONG BOOK
MOD		4186	229-404015-002	ENGINEERING	MHD CONTROLLER - LB
MOD		IPS-2	MM6216D	DIAGNOSTIC	MICRO MEM PCB
MOD		32/87	32/87-A01	PROGRAM	MICROCODE FZ FILE TRANSCENDENTAL LOAD
MOD		32/87	32/87-A03	PROGRAM	MICROCODE IOC CPU DECLARATION FILES
MOD		32/87	32/87-A02	PROGRAM	MICROCODE MOVEBYTE
MOD		CLASSIC	220-140000-002	PROGRAM	MICROCODES CPU PART 3 OF 3-LB
MOD		32/8X	32/87-009	PROGRAM	MICRODIAG 3 4 5
MOD		32/85	219-724004-000	PROGRAM	MICRODIAG CPU AND MEM
MOD		32/8X	32/87-003	PROGRAM	MICRODIAG CPU TEST 6 7 + 8
MOD		32/8X	32/87-001	PROGRAM	MICRODIAG CPUTEST 1 2 + 3
MOD		32/8X	32/87-006	PROGRAM	MICRODIAG CPUTEST 11 12 13 14 + 15
MOD		32/8X	32/87-002	PROGRAM	MICRODIAG CPUTEST 4 + 5
MOD		32/8X	32/87-004	PROGRAM	MICRODIAG CPUTEST 9 + 10
MOD		32/8X	32/87-008	PROGRAM	MICRODIAG IMEX 1-4 IOCTST1-2
MOD		32/8X	32/87-010	PROGRAM	MICRODIAG IOCTST 6 7 8
MOD		32/8X	32/87-011	TECHNICAL	MICRODIAG IOCTST 9 10 11 12 13 14
MOD		32/8X	32/87-007	PROGRAM	MICRODIAG MEMTEST 1 THRU 8
MOD		32/8X	32/87-005	TECHNICAL-1	MICRODIAG MTIOC TEST 1 2 +3
MOD		32/85	219-724004-000	PROGRAM	MMICRODIAG MEM AND IOC
MOD		MOD ACS/X	228-118001-000	ENGINEERING	MOD ACS/X PROCESS I/O CTRL (PIOC) - LONG BOOK
MOD		MODACS 90	200-117003-000	TECHNICAL	MODACS 90 DIGITAL I/O MODULE GUIDE
MOD		MODACS/X	229-118001-000	DIAGNOSTICS	MODACS/X PROCESS I/O CTRL (PIOC)-LONG BOOK
MOD		LARC	TECH TIPS	ENGINEERING	MODCOMP SYSTEM TECH TIPS
MOD		97XX	229-730001-002	SCHEMATICS	MODEL 97XX COMPUTER INSTALLATION DRAWINGS
MOD		3285	570A/B	PROGRAM	MODULE DESCRIPTION
MOD		4176 418X	220-800041-002	SCHEMATICS	MOVING HEAD DISK SINGLE AND DUAL PORT
MOD		41XX	225-200095-002	ENGINEERING	MT CONTROLLER-LB
MOD		5550	509-A00148-001	OPERATOR	MTU CONTROLLER
MOD		4146-1	250-200000-305	ENGINEERING	MTU CONTROLLER-LB
MOD		4146-3	224-406006-G00	TECHNICAL	MTU CONTROLLER-LB
MOD		419X-X	221-406006-003	SCHEMATICS	MTU CONTROLLER-LB
MOD		MTU	220-800050-003	OPERATOR	MTU CONTROLLER-LB
MOD		41XX	225-200096-001	TECHNICAL	MTU CTRL-LB
MOD		MTU	220-800050-000	OPERATOR	MTU CTRL-LB
MOD		4146-1	250-200000-305	SCHEMATICS	MTU WKBK-LB
MOD		5550	111-A00074-001	ENGINEERING	MTU-LB
MOD		4197/4198	220-800050-000	TECHNICAL	MTU-LB
MOD		4850 SERIES	221-407002-005	PROGRAM	MULTIFUNCT. CTRL - LB
MOD		4850 SERIES	224-407002-003	PROGRAM	MULTIFUNCT. CTRL - LB
MOD		4850 SERIES	220-800061-000	TECHNICAL	MULTIFUNCT. CTRL - LB
MOD		MVME327A	MVME327AFW/D2	OPERATOR	MVME327A FIRMWARE USER'S MANUAL
MOD		11XX	225-200150-002	DIAGNOSTICS	NEW REV-LB
MOD		4809/1889	220-800072-000	SCHEMATICS	OAI DIAGNOSTICS-LB
MOD		4809/1889	224-421007-000	DIAGNOSTICS	OAI THEORY OF OPERATION-LB
MOD		4809/1889	221-421007-001	SCHEMATICS	OAI-LB
MOD		11XX	225-200150-002	DIAGNOSTICS	OLD REV-LB
MOD		5927-X 5929-X	225-900006-002	DIAGNOSTIC	OLD REV-LB
MOD		4805-2	224-427001-001	DIAGNOSTICS	PARALLEL INTERFACE CTRL-LB
MOD		4805-2	221-427001-003	TECHNICAL	PARALLEL INTERFACE CTRL-LB
MOD		MODACS III	225-200301-102	TECHNICAL	PART 1 OF 2-LB
MOD		MODACS III	225-200301-102	TECHNICAL	PART 2 OF 2-LB
MOD		MODACS III	225-200301-102	TECHNICAL	PART 2 OF 2-LB
MOD		4912/4913	220-800062-000	DIAGNOSTICS	PERIPH SEL-LB
MOD		4912/4913	224-423006-001	TECHNICAL	PERIPH SEL-LB
MOD		4911	225-423004-G00	DIAGNOSTICS	PERIPHERAL ENCLOSURE-LB
MOD		4912/4913	224-423006-001	DIAGNOSTICS	PERIPHERAL SELECTOR CONT. -LB
MOD		4912/4913	220-800062-000	ENGINEERING	PERIPHERAL SELECTOR CONT. -LB
MOD		4912/13	221-423006-002	DIAGNOSTICS	PERIPHERAL SELECTOR CTRL-LB
MOD		4912/13	220-800062-002	SCHEMATICS	PERIPHERAL SELECTOR CTRL-LB
MOD		4912/13	224-423006-001	SCHEMATICS	PERIPHERAL SELECTOR CTRL-LB
MOD		MODACS III	220-800091-000	INSTALLATION DRAWINGS	PIO CTRL + ANALOG-LB
MOD		MODACS III	220-800092-000	DIAGNOSTIC	PIO DIGITAL-LB
MOD		92XX	515-100659-001	SCHEMATICS	POWER FAIL PRINTS LONG BOOK
MOD		LOGIC	007-23066-001	PROGRAM	POWERTEC P.S.-LB
MOD		SAL	211-821001-H05	OPERATOR	PROGRAM REF
MOD		4912/13	220-800062-000	DIAGNOSTICS	PSC-LB
MOD		4912/13	221-423006-002	SCHEMATICS	PSC-LB
MOD		4912/13	220-800062-000	TECHNICAL	PSC-LB
MOD		4912/13	221-423006-002	TECHNICAL	PSC-LB
MOD		4912/13	224-423006-001	TECHNICAL	PSC-LB
MOD		5175	460-041	TECHNICAL	PULSE OUTPUT-LB
MOD		441X	225-200065-001	DIAGNOSTICS	PUNCH CARD CTRL-LB
MOD		441X	225-200065-002	ENGINEERING	PUNCH CARD CTRL-LB
MOD		441X	225-200065-003	TECHNICAL	PUNCH CARD CTRL-LB
MOD		SWS-150	SWS-150	SCHEMATICS	PWR SUP-LB
MOD		4804/1881X	220-800071-000	DIAGNOSTICS	QCIC-LB
MOD		4804-1881X	225-200214-102	SCHEMATICS	QCIC-LONG BOOK
MOD		88100	205-863001-000	DIAGNOSTIC	REAL/IX OS CONCEPTS AND CHARACTERISTICS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
MOD	SBC	226-723001-001	INSTALLATION	REFERENCE
MOD	CL II/75	226-722001-004	TECHNICAL	REFERENCE - CPU
MOD	VLAN-E	211-114009-000	INSTALLATION	SBE VLAN-E 68020 VME BUS LAN CONTROLLER
MOD	9250	9250	SCHEMATICS	SCH.+PART LISTING LONGBOOK
MOD	IPS-2	MVME147FW/D2	ENGINEERING	SCSI FIRMWARE USERS GUIDE
MOD	9250 9230 32/87	223-100001-004	SCHEMATICS	SITE PREPARATION & INSTALLATION GUIDE
MOD	5550	261-504008-000	ENGINEERING	SPEC PRODUCTS DIAGA THEORY PRINTS LB
MOD	IPS-2	MD41955SID/D3	ENGINEERING	STANDALONE SYS INTERACTIVE DIAG GUIDE
MOD	9088	SSIDV5.1/S1	SCHEMATICS	STAND-ALONE SYS. DIAGS - SOFTWARE GUIDE
MOD	9088	MD41955SID/D4	TECHNICAL	STANDALONE SYS. DIAGS - USER'S GUIDE
MOD	9740	MD4195551D/D3	OPERATOR	STANDALONE SYSTEM DIAGNOSTIC
MOD	IPS-2	MVME147BUG/D1	SCHEMATICS	SYS MANAGER DEBUG AND DIAG GUIDE
MOD	97XX	213-730001-002	TECHNICAL	SYSTEM GUIDE 97XX COMPUTERS
MOD	4810	225-200135-001	SCHEMATICS	T.M. COMM INTFC.-LB
MOD	IPS-2	MVME133BUG/D1	DIAGNOSTICS	TCP DEBUG AND DIAG GUIDE
MOD	IPS-2	213-114008-003	ENGINEERING	TCP/NET SYSTEM GUIDE
MOD	MODCOMP	MODCOMP	DIAGNOSTICS	TECH TIPS
MOD	4807X	225-200137-001	TECHNICAL	TERMINAL CTRLR.-LB
MOD	4807X	225-200137-001	TECHNICAL	TERMINAL CTRLR.-LB
MOD	SBC	224-723001-001	SCHEMATICS	THEORY
MOD	IPS-2	MVME133/D1	OPERATOR	THEORY OF OPERATION AND PRINTS
MOD	IPS-2	MVME147/D2	OPERATOR	THEORY OF OPERATION AND PRINTS
MOD	4805-2	224-427001-001	DIAGNOSTICS	THEORY OF OPERATION-LB
MOD	CL II/75	224-722001-001	PROGRAM	THEORY-CPU
MOD	CL II	224-321001-001	SCHEMATICS	THEORY-IOP
MOD	4143	250-200000-308	DIAGNOSTIC	TRAINING-LB
MOD	32XX	570A/B	ENGINEERING	TRG. COURSE HANDOUTS
MOD	92XX	392	INSTALLATION	TRI-D 92XX DIAGS TRG.
MOD	375X	225-200055-002	ENGINEERING	TTY CTRLR-LB
MOD	375X	225-200055-003	ENGINEERING	TTY CTRLR-LB
MOD	375X	225-200055-001	SCHEMATICS	TTY CTRLR-LB
MOD	5927	225-900006-001	DIAGNOSTICS	TTY/SERIAL LINK-LB
MOD	5927	220-800069-000	ENGINEERING	TTY/SERIAL LINK-LB
MOD	5927	225-900006-001	TECHNICAL	TTY/SERIAL LINK-LB
MOD	SCSI-2	UG04220-000-C	PROGRAM	V/SCSI-2 4220 COUGAR USER'S GUIDE
MOD	MVME327A	MVME327 A/D	INSTALLATION	VME BUS TO SCSI BUS ADAPTER USER'S MANUAL
MOD	VME	299-000018-000	ENGINEERING	VME MODULE SUMMARY QUICK REFERENCE
MOD	VME	229-730001-003	INSTALLATION	VMEBUS BASED COMPUTER FOR OPEN ARCHIT.
MOD	VME	213-730003-000	INSTALLATION	VMEBUS BASED COMPUTER SYSTEM GUIDE
MOD	VMIVME-5010	500-005010-000	SERVICE	VMIVME5010 EIX INSTRUCTION MANUAL
MOD	VMIVME-5010	800-005010-000	N/A	VMIVME5010 EIX INTERRUPT EXPANDER
MOD	200/290	74200-002	OPERATOR	XVME-200/290 DIGITAL I/O MODULES (XXCOM)
MOD	11XX	225-200150-003	TECHNICAL	N/A
MOD	IEEE-488	220-800074-000	ENGINEERING	N/A
MOD	SBC	222-723001-001	TECHNICAL	N/A
MOELLER INSTRUMENTS	30A	N/A	TECHNICAL	N/A
MOG	GX-1000	103-0001-602	SERVICE	N/A
MOH	2021/2022	M2992-0174	D	AIRLAB
MOI	210	298-0022	X	N/A
			OPERATION AND MAINTENANCE MANUAL	2 MANUALS
MOLECTRON CORP.	LSDS	N/A		
MONITOR	305S	N/A	F	N/A
MONITOR SYSTEMS INC. AN AYDIN COMPANY	820	N/A	F	PCM SIGNAL SIMULATOR
MONSANTO	101A	N/A	K	1 MANUAL & 1 OPERATOR'S INSTRUCTIONS
MONSANTO	3100A	N/A	B	FREQ. SYNTHESIZER
MONSANTO	300A	N/A	F-K	N/A
MONSANTO	3100A	N/A	B	N/A
MOORE	771	N/A	B	N/A
MOORE	MYCRO 352	N/A	X	N/A
MOORE	SD77	N/A	H	N/A
MOORE PRODUCTS	SD352	N/A	X	1 MANUAL
MORR	JA-12	N/A	W-K	INSTRUCTION
MOSELEY	60B	N/A	W-K	N/A
MOSLEY (MARKER)	80A-2	N/A	N/A	2 MANUALS
MOSLEY (MARKER)	D-80	N/A	SEE MOD	4 MANUALS
MOSLEY (MARKER)	7000A	N/A	W-K	SPECS ONLY
MOSLEY (MARKER)	2D 2D-2	N/A	W-K	N/A
MOSLEY (MARKER)	2DR 2DR2	N/A	W-K	N/A
MOSLEY (MARKER)	4S	N/A	W-K	N/A
MOSLEY (MARKER)	80A	N/A	W-K	N/A
MOSTEK	MK5010 P	N/A	DIAGNOSTIC	N/A
MOT	MVME141	MVME141BUG/D2	DIAGNOSTIC	141BUG DEBUGGING PACKAGE
MOT	MVME188	MVME188BUG/D1	OPERATOR	188BUG DUBGING PACKAGE USER MANUAL
MOT	MVME141	MVME141-1/-2	OPERATOR	32BIT VMEBUS MICROCOMPUTER USER MANUAL
MOT	MVME224	MVME224/D1	SCHEMATICS	4MB 8MB MEMORY USERS MANUAL
MOT	MVME710	MVME710/D1	X	8 CHANNEL SERIAL I/O DISTRIBUTION MAN.
MOT	MVME332	MVME332XT/D1	N/A	INTELLIGENT COMM CTRL USER MANUAL
MOT	MVME188	SIMVME188	SCHEMATICS	RISC PROCESSOR PARTS LIST AND SCHEMATICS
MOT	MVME327A	MVME327AFW/D2	SCHEMATICS	SCSI FIRMWARE USER MANUAL
MOT	MVME327A	SIMVME327A	SCHEMATICS	SCSI PROCESSOR PARTS LIST AND SCHEMATICS
MOT	MVME141	MD41955SID/D3	SCHEMATICS	STANDALONE INTERACTIVE DIAGS USER GUIDE
MOT	MVME188	MVME188/D1	DIAGNOSTIC	VME MODULE RISC MICROCOMPUTER USER MAN
MOT	MVME327A	MVME327A/D2	PROGRAM	VMEBUS TO SCSI BUS ADAPTAP USER MANUAL
MOT	9740295	REF	SCHEMATICS	N/A
MOTOROLA	TEK 1A	N/A	X	2 MANUALS
MOTOROLA	PAGEBOY II	N/A	K	3 MANUALS
MOTOROLA	MX300 & MS300	N/A	J	7 MANUALS/ 1 ALIGNMENT TOOL
MOTOROLA	HT1000	N/A	X	OPERATION PORTABLE RADIO
MOTOROLA	HT1000	N/A	K	SERVICE PORTABLE RADIOS
MOTOROLA	MT 2000	N/A	S	SERVICE PORTABLE RADIOS
MOTOROLA	MTS 2000	N/A	J	SERVICE PORTABLE RADIOS
MOTOROLA	MTX SERIES	N/A	K	SERVICE PORTABLE RADIOS
MOTOROLA	BRAVO PLUS	N/A	S	SERVICE/MAINTENANCE
MOTOROLA	M68MM PSI-1	N/A	S	N/A
MOTOROLA	MOCOM-70	N/A	K	N/A
MOTOROLA	MT500 SERIES	N/A	S	N/A
MOTOROLA	MX300	N/A	K	N/A
MOTOROLA	R1532-1553	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
MOTOROLA	TEK-13A	N/A	E	N/A
MOTOROLA EAGLE	MINI-RANGER	N/A	F	USER MANUAL
MOXON	889	N/A	TECHNICAL	INSTRUCTION
MPH INDUSTRIES	K15	N/A	N	N/A
MPP	51/52-51S/52S	MP151-52	N	N/A
MSA	53	N/A	N	N/A
MSA	53	N/A	N	N/A
MSA	200	N/A	N	N/A
MSA	250	N/A	N	N/A
MSA	303	N/A	N	N/A
MSA	87505	N/A	N	N/A
MSA	100S	N/A	N	N/A
MSA	1-L	N/A	J	N/A
MSA	62S	N/A	N	N/A
MSA	IV	N/A	OPERATOR	N/A
MSA	MODEL 701	N/A	SERVICE	N/A
MSJ	MICROTOUCH	1	E	N/A
MSJ	MICROTOUCH	9000401	X	N/A
MTI	SD101/102	N/A	X	OPERATION
MTI	SC-20	N/A	TECHNICAL	N/A
MTO	4D910	11-00897-06	X	15 MEG HARD DISK
MTS	660	N/A	SERVIC	CATALOG
MTS	410.31	N/A	E	INSTRUCTION
MTS	417.01	N/A	E	INSTRUCTION
MTS	430.401	N/A	E	INSTRUCTION
MTS	430.41	N/A	E	INSTRUCTION
MTS	430.41	N/A	E	INSTRUCTION
MTS	440.14	N/A	E	INSTRUCTION
MTS	440.22	N/A	E	INSTRUCTION
MTS	440.31	N/A	E	INSTRUCTION
MTS	440.41	N/A	D	INSTRUCTION
MTS	4B,05E	N/A	B	INSTRUCTION
MTS	401.03	N/A	X	N/A
MTS	406.11	N/A	E	N/A
MTS	410.21.22.23.31	N/A	E	N/A
MTS SYSTEMS	408.21	N/A	N/A	DC CONDITIONER
MU-DEL	MDC-1415	N/A	N/A	MDC-1415 SERIES INCL: 1415A 1415-2A 1415-2C
MULTI-AMP	35200	N/A	OPERATOR	OPERATION & MAINTENANCE
MULTITECH SYSTEMS	MT932 SERIES	N/A	TECHNICAL	OPERATORS MANUAL
MUX	6000	20-44-2001	N/A	COLOR GRAPHIC RECORDER
MUX	CTM-300	1108A5003/1	N/A	SCHEMATICS
MVE	DURA 5100	N/A	TECHNICAL	USER MANUAL
MVE CRYOGENICS	HL-190G	N/A	TECHNICAL	N2 TANK
MXR	XT-8000S	1015586 REVB	TECHNICAL	5.25 HDA SCSI MANUAL
MXR	LXT ATA	1023789 REY A	TECHNICAL	MAXTOR LXTATA TECHNICAL MANUAL
MXR	RXT-800S	1013040	TECHNICAL	OPTICAL DISK
MXR	TAHITI1	1015225 REVA	TECHNICAL	REWRITEABLE OPTICAL DRIVE
MXR	XT-4000S	1014995	TECHNICAL	TAPE DRIVE 8MM
MXR	RXT-800HS	1019928 REVA	TECHNICAL	WORM DRIVE OPTICAL
MZC	VME-68225	490218 REVA	TECHNICAL	INTEGRATED SOLUTIONS HARDWARE REF MAN
MZC	VME-68K20	490103 REVB	F	INTEGRATED SOLUTIONS HARDWARE REFERENCE
MZC	VME-HSMEM-8/4-1	490221 REVA	X	INTEGRATED SOLUTIONS HI-SPEED MEM REF
MZC	V13-F	490274 REVA	TECHNICAL	INTEGRATED SOLUTIONS V13-E INSTALLATION
MZC	OPTIMUM V16 WS	490002	OPERATOR	INTEGRATED SOLUTIONS V16 WS INSTALL MAN
MZC	V/SMD 3200	VG-0490-000-00	INSTALLATION	INTERPHASE DISK CONT ROLLER USERS GUIDE
MZC	V/SMD 3200	VG-0490-000-01	TECHNICAL	INTERPHASE DISK CONT ROLLER USERS GUIDE
MZC	8200X	M8306031	INSTALLATION	NORTHERN TELECOM DISK DRIVE DESCRIPTION
MZC	8200X	440000 REVE	OPERATOR	NORTHERN TELECOM DISK DRIVE SPEC
N.EASTERN ENG. INST.	14-22	N/A	X	N/A
N.L.S.	SERIES X1	N/A	X	1 MANUAL/1 SPECS.
N.L.S.	SERIES X2	N/A	X	1 SPECS/NO FOLDER
N.L.S.	LX-2	N/A	X	2 MANUALS
N.L.S.	SERIES 4800	N/A	X	2 MANUALS
N.L.S.	V34 & V35	N/A	X	2 MANUALS
N.L.S.	V-91	N/A	X	2 MANUALS
N.L.S.	S-1	N/A	X	3 MANUALS
N.L.S.	RV-2-B & RV-2-P	N/A	X	NO MANUAL
N.L.S.	DC6A	N/A	X	SCHEMATIC INCLUDED
N.L.S.	V60C 6005	N/A	X	SCHEMATIC INCLUDED
N.L.S.	140	N/A	Q	N/A
N.L.S.	155	N/A	Q/X	N/A
N.L.S.	262	N/A	X	N/A
N.L.S.	481	N/A	D	N/A
N.L.S.	2300	N/A	X	N/A
N.L.S.	2504	N/A	X	N/A
N.L.S.	143S	N/A	X	N/A
N.L.S.	2917A & 19176	N/A	X	N/A
N.L.S.	3204 & 3210	N/A	X	N/A
N.L.S.	484A 484B	N/A	X	N/A
N.L.S.	MS-15	N/A	X	N/A
N.L.S.	SERIES 125	N/A	X	N/A
N.L.S.	SERIES 1700	N/A	X	N/A
N.L.S.	SERIES 9100	N/A	X	N/A
N.L.S.	V64A V64B	N/A	X	N/A
N.L.S.	V-91M & V-91PM	N/A	X	N/A
N.L.S.	X-3A	N/A	U	N/A
NACA	CAPUCIOMETER	N/A	U	N/A
NAGRA	III	N/A	U	INSTRUCTION
NAGRA	IV	N/A	U	INSTRUCTION
NAGRA	SN	N/A	SCHEMATICS	INSTRUCTION
NAGRA	IV SJ	N/A	U	N/A
NAGRA	IVD L	N/A	U	N/A
NAGRA	IVS	N/A	SCHEMATICS	N/A
NAN	MULTIPATH MEM	21-004	TECHNICAL	AIRLAB
NAN	N14001	321-79016	OPERATOR	AIRLAB
NAN	N44000	321-79062	TECHNICAL	AIRLAB
NAN	N45000	221-79011	TECHNICAL	AIRLAB

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
NAN	QM	21-013	SCHEMATICS	AIRLAB
NAN	QM-1	221-7001302	DIAGNOSTICS	AIRLAB
NAN	QM-1	421-80011	SCHEMATICS	AIRLAB
NAN	QM-1	321-80003	TECHNICAL	AIRLAB
NAN	QM-1	322-79018	X	AIRLAB
NAN	QM-1	421-80012	X	AIRLAB
NAN	N9755	321-79095	TECHNICAL	AIRLAB DISK
NAN	N3810/3820/3830	321-79026	TECHNICAL	AIRLAB MTU
NAN	N4024	321-80001	TECHNICAL	AIRLAB TEK 4023
NAN	QM-1	21XXX	IPB	BROWN BOX WITH LOOSE SCHEMATICS
NAN	QM-1	221-79013 REV2	TECHNICAL	ENVIRONMENT SPEC AIRLAB
NAN	QM-1	L83370	IPB	LIST ENCLOSED
NAN	2022	1	SCHEMATICS	N/A
NAN	GLD	4	SCHEMATICS	N/A
NAN	MH60	2	OPERATOR	N/A
NAN	MH60	3	TECHNICAL	N/A
NANOSECOND	410	N/A	J	N/A
NANOSECOND	1721/2723	N/A	J	N/A
NARCO	COMIIB/COMIIB	N/A	J	N/A
NARDA	62A2	N/A	X	N/A
NARDA	INST. CATALOG	N/A	X	N/A
NASA	7 X 10	N/A	X	N/A
NASA	AOA CONTROL BOX	N/A	X	N/A
NASA	BALANCE BOX	N/A	X	N/A
NASA	CBW-FM	N/A	X	N/A
NASA	ECS TEMP CONTROL	N/A	X	N/A
NASA	ELECT. BEAN GEN.	N/A	CATALOG	N/A
NASA	LD.CELL CONT.BOX	N/A	A	N/A
NASA	LWP-81	N/A	X	N/A
NASA	SOLDER. HANDBOOK	N/A	X	N/A
NASA	THERMOCOJ. CONT.	N/A	W	N/A
NASA	THIN FLM.ANA.NET	N/A	X	N/A
NASA	VAC. SWITCHGEAR	N/A	X	N/A
NASA	V-G RECORDER	N/A	X	N/A
NATEL	400X11-400-262	N/A	X	SYNCHRO CONVERTER
NATEL	406	N/A	F	N/A
NATEL	406X0-1A-400-26V	N/A	J	N/A
NDT INSTRUMENTS	2100	N/A	Q	CALIBRATION PROCEDURE
NDT INSTRUMENTS	2100	N/A	N/A	OPERATORS MANUAL
NDT INSTRUMENTS	2100	N/A	N/A	SCHEMATIC DIAGRAMS
NEC	MULTISYNC II	N/A	Q	MO0916/MONITOR COLOR
NEC	P2/P3-3 P2/P3-6	N/A	TECHNICAL	TECH REF.
NEC	LC890	N/A	N/A	TECHNICAL INFORMATION IS NOT AVAILABLE
NEC	LC3500/SILENTWRITER			
NEC	95	N/A	N/A	USERS GUIDE
NEC	P6	N/A	CATALOG	N/A
NEF	620	620	ENGINEERING	ANALOG DAU
NEF	DAURATE-SEL	APNOTE504	TECHNICAL	CHOOSING SAMPLE RATES
NEF	DAU-SEL	APNOTE503	PROGRAM	DAU-CONT SYS EVAL + SELECT
NEF	125-035	125-035	OPERATOR	DC AMP
NEF	1995	1995	TECHNICAL	HANDBOOK - SELECTION GUIDE 1995
NEF	DVR77	620596	SERVICE/OPERATOR	HP NEFF620/500 DRVR
NEF	SYSTEM 490	490900	E	OPERATION & MAINT MANUAL - SYSTEM 490
NEF	620520	621003	TECHNICAL	OPERATION AND MAINTENANCE
NEF	620600	620997	TECHNICAL	OPERATION AND MAINTENANCE
NEF	620	620952	SERVICE	SERIES 100/200
NEF	620/500	620965	SERVICE	SERVICE OPERATION SCHEMATICS
NEF	620600	620600	TECHNICAL	SERVICE/SCHEMATIC/IPB
NEF	SER 400	620954	E	SERVICE-IPB-LOGIC
NEF	620	620076	TECHNICAL	SYSTEM DESCRIPTION
NEF	620	EXPORT	MAINTENANCE	N/A
NEF	620	620	TECHNICAL	N/A
NEF	620/SERIES 500	I/O	SERVICE	N/A
NEF	620-100/200	620952	ENGINEERING	N/A
NEFF	122	N/A	X	AMP
NEFF	1-100	N/A	E	INSTRUCTION
NEFF	119	N/A	E	OPERATION AND MAINTENANCE
NEFF	125	N/A	E	OPERATION AND MAINTENANCE
NEFF	127	N/A	E	OPERATION AND MAINTENANCE
NEFF	127	N/A	E	OPERATION AND MAINTENANCE
NEFF	127	N/A	X	OPERATION AND MAINTENANCE
NEFF	129	N/A	E	OPERATION AND MAINTENANCE
NEFF	129	N/A	E	OPERATION AND MAINTENANCE
NEFF	130	N/A	E	OPERATION AND MAINTENANCE
NEFF	130	N/A	X	OPERATION AND MAINTENANCE
NEFF	620	N/A	E	OPERATION AND MAINTENANCE
NEFF	122-123	N/A	E	OPERATION AND MAINTENANCE
NEFF	122-123	N/A	E	OPERATION AND MAINTENANCE
NEFF	122-123-96	N/A	E	OPERATION AND MAINTENANCE
NEFF	100	N/A	E	OPERATION/MAINTENANCE
NEFF	100	N/A	E	OPERATION/MAINTENANCE
NEFF	100	N/A	E	OPERATION/MAINTENANCE
NEFF	100	N/A	X	OPERATION/MAINTENANCE
NEFF	122	N/A	E	OPERATION/MAINTENANCE
NEFF	122	N/A	E	OPERATION/MAINTENANCE
NEFF	122	N/A	E	OPERATION/MAINTENANCE
NEFF	122	N/A	X	OPERATION/MAINTENANCE
NEFF	124	N/A	E	OPERATION/MAINTENANCE
NEFF	126	N/A	E	OPERATION/MAINTENANCE
NEFF	130	N/A	E	OPERATION/MAINTENANCE
NEFF	130	N/A	E	OPERATION/MAINTENANCE
NEFF	130	N/A	E	OPERATION/MAINTENANCE
NEFF	200	N/A	X	OPERATION/MAINTENANCE
NEFF	300	N/A	E	OPERATION/MAINTENANCE
NEFF	400	N/A	E	OPERATION/MAINTENANCE
NEFF	470	N/A	E	OPERATION/MAINTENANCE
NEFF	470	N/A	E	OPERATION/MAINTENANCE
NEFF	470	N/A	E	OPERATION/MAINTENANCE

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NEFF	470	N/A	E	OPERATION/MAINTENANCE
NEFF	470	N/A	E	OPERATION/MAINTENANCE
NEFF	500	N/A	E	OPERATION/MAINTENANCE
NEFF	620 VOL I	N/A	E	OPERATION/MAINTENANCE
NEFF	620 VOL I	N/A	E	OPERATION/MAINTENANCE
NEFF	620 VOL II	N/A	T	OPERATION/MAINTENANCE
NEFF	620 VOL II	N/A	T	OPERATION/MAINTENANCE
NEFF	620	N/A	E	PROGRAMMING
NEFF	106	N/A	E	N/A
NEFF	122	N/A	E	N/A
NEFF	127	N/A	E	N/A
NEFF	301	N/A	E	N/A
NEFF	2-200	N/A	E	N/A
NEIL BROWN	ATB 1250	N/A	INSTALLATION	OPERATION/SERVICE
NEIL BROWN	ATB 1250	N/A	OPERATOR	OPERATION/SERVICE
NEK	NCD19B	9300151	OPERATOR	BOOT MONITOR VER 2.3 1
NEK	NCD17C	9300168	OPERATOR	INSTALLING NCD17C HARDWARE
NEK	NCD19B	9300065	SEE NEK 500	NCD X TERMINAL USERS MANUAL
NEK	NCD17C	9300093	PROGRAM	NCD17C USERS MANUAL
NEK	NCD19B	9300066	X	NCDWARE 2.2 X-SERVER USERS MANUAL
NEK	NCD17C	9300150	OPERATOR	NCDWARE X SERVER USER MANUAL
NEK	NCD17C	9300076	OPERATOR	NETWORK DISPLAY STATION X SERVER NOTES
NEK	NCD19C	9300150	X	X SERVER USER'S MANUAL INSTALLATION
NELSON-ROSS	PSA 011 THRU 014	N/A	X	N/A
NELSON-ROSS	PSA 026	N/A	X	N/A
NEMS-CLARKE	1671-1674	N/A	X	N/A
NEMS-CLARKE	167-E	N/A	X	N/A
NEMS-CLARKE	DM-100	N/A	O	N/A
NEMS-CLARKE	REV-300-B	N/A	N	N/A
NEOTEC	TRU-COLOR C.MET.	N/A	W	N/A
NEOTRONIX	EXOTOX 55	N/A	H	N/A
NESCO	JY 100	N/A	H	N/A
NESLAB	CRYOCOOL	N/A	H	INSTRUCTION
NESLAB	LT50/ULT80	N/A	H	INSTRUCTION
NESLAB	RTE4DD	N/A	H	INSTRUCTION
NESLAB	RTE5DD	N/A	H	INSTRUCTION
NESLAB	RTE8DD	N/A	N/A	INSTRUCTION
NESLAB	RTE9DD	N/A	SERVICE PRINTS IPB	INSTRUCTION
NESLAB	SYSTEM II	N/A	TECHNICAL	OPERATION MANUAL
NET	BC403	REF	TECHNICAL	MANUALS AT IRD BLDG 1230
NEW	LRC-DAU	N/A	E	DAU-ANALOG SUBSYST
NEW	LRC-DAU	N/A	X	NEWPORT AMPLIFIER
NEWARK	CATALOG	N/A	X	VARIOUS TOOLS PARTS & INSTRUMENTS
NEWLONDON INST. CO.	160	N/A	H	N/A
NEWLONDON INST. CO.	403	N/A	H	N/A
NEWPORT	Q2000X	N/A	E	INFORMATION (XEROX)
NEWPORT	50/55/60/70	N/A	E	INSTRUCTION
NEWPORT	2000	N/A	E	INTRODUCTION
NEWPORT	6110	N/A	O	OPERATION
NEWPORT	P6000A/P5000	N/A	E	OPERATOR/SERVICE
NEWPORT	37747	N/A	E	OPTION MANUAL
NEWPORT	37747	N/A	E	OPTION MANUAL
NEWPORT	37747	N/A	H	OPTION MANUAL
NEWPORT	6210	N/A	E	OWNER
NEWPORT	37747	N/A	E	OWNER
NEWPORT	400AS	N/A	N/A	OWNER
NEWPORT	LRC-DAU	N/A	H	OWNER
NEWPORT	LRC-DAU	N/A	OPERATOR/SERVICE	OWNER
NEWPORT	Q2000X	N/A	H	OWNER
NEWPORT	Q2000X	N/A	X	OWNER
NEWPORT	Q2000X	N/A	X	OWNER
NEWPORT	203	N/A	E	OWNERS
NEWPORT	258	N/A	H	OWNERS
NEWPORT	2000AS	N/A	E	OWNERS
NEWPORT	2000AS	N/A	N/A	OWNERS
NEWPORT	2000BS	N/A	E	OWNERS
NEWPORT	2003A	N/A	E	OWNERS
NEWPORT	2003A	N/A	E	OWNERS
NEWPORT	2003B	N/A	E	OWNERS
NEWPORT	200ABS	N/A	E	OWNERS
NEWPORT	200B/S	N/A	E	OWNERS
NEWPORT	204A	N/A	N/A	OWNERS
NEWPORT	204A	N/A	N/A	OWNERS
NEWPORT	204B	N/A	H	OWNERS
NEWPORT	200ABS	N/A	N/A	OWNERS (XEROX)
NEWPORT	2003B	N/A	E	OWNERS MANUAL
NEWPORT	203A	N/A	N/A	OWNERS MANUAL
NEWPORT	260S	N/A	H	OWNERS MANUAL
NEWPORT	267B	N/A	E	OWNERS MANUAL
NEWPORT	267B	N/A	E	OWNERS MANUAL
NEWPORT	267B	N/A	H	OWNERS MANUAL
NEWPORT	Q2000X	N/A	E	OWNERS MANUAL
NEWPORT	Q2000X	N/A	E	OWNERS MANUAL
NEWPORT	2000BS	N/A	E	PANAL VOLTMETER
NEWPORT	200ASBS	N/A	E	PANAL VOLTMETER
NEWPORT	204A	N/A	E	PANAL VOLTMETER
NEWPORT	204B	N/A	E	PANAL VOLTMETER
NEWPORT	204B	N/A	E	PANAL VOLTMETER
NEWPORT	400AS	N/A	E	PANAL VOLTMETER
NEWPORT	400PS	N/A	E	PANAL VOLTMETER
NEWPORT	CATALOG	N/A	E	PRECISION LASER/OPTICS
NEWPORT	200	N/A	E	PRELIMINARY INFORMATION
NEWPORT	267A	N/A	H	SERVICE
NEWPORT	203	N/A	H	SPECIFICATION
NEWPORT	204	N/A	E	SPECIFICATION
NEWPORT	400A	N/A	N/A	SPECIFICATION
NEWPORT	2000	N/A	E	SPECIFICATION SHEET

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NEWPORT	2003	N/A	E	SPECIFICATION SHEET
NEWPORT	2000A	N/A	E	SPECIFICATION SHEET
NEWPORT	2003A	N/A	H	SPECIFICATION SHEET
NEWPORT	200B	N/A	E	SPECIFICATION SHEET
NEWPORT	2000	N/A	E	SPECIFICATION SHEET (XEROX)
NEWPORT	200	N/A	E	SPECIFICATIONS
NEWPOST LABS	267	N/A	X	N/A
NEWPOST LABS	703	N/A	X	N/A
NEWPOST LABS	810	N/A	X	N/A
NEWPOST LABS	6110	N/A	X	N/A
NEWPOST LABS	6130	N/A	F	N/A
NEWPOST LABS	6210	N/A	X	N/A
NEWPOST LABS	2000B	N/A	X	N/A
NEWPOST LABS	871/872	N/A	H	N/A
NEWPOST LABS	A1	N/A	USERS	N/A
NEWTRONIC	MICRO 96	N/A	TECHNICAL	INSTRUCTION
NEY	P2	819-150117-000	SERVICE	BOOK AT 1267 RM 125 PHONE X2425
NEY	P5	819-150303-000	OPERATOR	FIELD MAINTENANCE GUIDE
NEY	3500	81900063-5001	TECHNICAL	LONG BOOK
NEY	JC1403	SMJ1403	TECHNICAL	MULTISYNC 2A
NEY	3500	81900063-8001	SCHEMATICS	OPERATOR-LB
NEY	LC800 SERIES	819-150347-000	SERVICE	OPERATOR-SERVICE-SCHEMATICS-IPB
NEY	P6200/P6300	819-180298-000	SERVICE	P6200/P6300 USER'S GUIDE
NEY	P6/P7	819-150367-000	OPERATOR	PINWRITER P6/P7 SERIES TECH REFERENCE GUIDE
NEY	P6/P7	819-150366-000	SERVICE	PINWRITER P6/P7 SERIES USERS GUIDE
NEY	P2/P3-3 P2/P3-6	819-150117-000	TECHNICAL	PRINTER CHARACTER
NEY	JC-1402HMA	599910263	SERVICE	SCHEMATICS / PARTS LIST
NEY	8850	819150114-000	TECHNICAL	SCHEMATICS IPB SERVICE
NEY	JC1404HMA	SMJC1404	TECHNICAL	SERVICE SCHEMATICS IPB
NEY	SILENTWRITER 2	819-180269-000	TECHNICAL	SERVICE GUIDE
NEY	JC-1401P3A	599910248	SERVICE	SERVICE MANUAL
NEY	NT3232	819-180214-000	TECHNICAL REFERENCE	SERVICE MANUAL
NEY	P6200/6300	819-180324-000	TECHNICAL	SERVICE MANUAL
NEY	95	819-180460-000	SERVICE	SERVICE MANUAL/TRAINING KIT
NEY	95	819-180461-000	SERVICE	SILENTWRITER MODEL 95 TECH REFERENCE GUIDE
NEY	SILENTWRITER 2	819-180260-000	TECHNICAL	TECH REFERENCE GUIDE
NEY	LC260	819-180262-000	OPERATOR	TECHNICAL REFERENCE GUIDE
NEY	P6/P7	819-150423-000	TECHNICAL	THEORY ADJUSTMENTS IPB
NEY	8850	819-000067-000	SERVICE	USER'S GUIDE
NEY	NT3232	819-180253-000	SERVICE	USER'S GUIDE
NEY	2050	81900065/4001	SERVICE	N/A
NEY	5515	819000000-5515	OPERATOR	N/A
NIC	ZETA 8/822/887	431-074	X	SCHEMATICS
NIC	100/1200	ZETA100/1200	OPERATOR	SERVICE/IPB
NIC	764	125-0028-0002B	SERVICE	N/A
NIC	764	125-0027-0002E	X	N/A
NICOLET	3091	N/A	K	1 OPERATIONS AND 1 SERVICE MANUAL
NICOLET	1090	N/A	K	3 MANUALS
NICOLET	4094	N/A	X	M00875/OSCILLOSCOPE DIGITAL
NICOLET	4094	N/A	X	M00876/OSCILLOSCOPE DIGITAL
NICOLET	400 SERIES	N/A	N/A	OPERATION
NICOLET	PRO 40	N/A	X-G	OPERATORS MANUAL
NICOLET	3091	N/A	X K	OSCILLOSCOPES
NICOLET	CATALOGS	N/A	N/A	OSCILLOSCOPES
NICOLET	PRO 40	N/A	N/A	REMOTE COMMAND SET
NICOLET	400 SERIES	N/A	N/A	SCHEMATICS
NICOLET	400 SERIES	N/A	N/A	SCHEMATICS
NICOLET	400 SERIES	N/A	N/A	SERVICE AND CALIBRATION
NICOLET	PRO 40	N/A	K	SERVICE MANUAL
NICOLET	67	N/A	K	N/A
NICOLET	440	N/A	X	N/A
NICOLET	444	N/A	X	N/A
NICOLET	446	N/A	X	N/A
NICOLET	532	N/A	X	N/A
NICOLET	1170	N/A	K	N/A
NICOLET	2090	N/A	K	N/A
NICOLET	2090	N/A	K	N/A
NICOLET	2090	N/A	K	N/A
NICOLET	2090	N/A	X	N/A
NICOLET	4094	N/A	X	N/A
NICOLET	1090A	N/A	X	N/A
NICOLET	1090A/AR	N/A	X	N/A
NICOLET	24C	N/A	X	N/A
NICOLET INSTRUMENT	310	N/A	X	OPERATION
NICOLET SCIENTIFIC	136A	N/A	X	N/A
NIKON F	F-2	N/A	TECHNICAL	N/A
NIKON F	F-36	N/A	PROGRAM	N/A
NIS	GPIB-1014	320030-01	PROGRAM	GPIB THEORY AND OPERATION MANUAL
NIS	GPIB-PCII/IIA	320135-90	USER GUIDE	INTRO TO ULJ EXAMPLES
NIS	GPIB-PCII/IIA	320282-01	INSTALLATION	NI-488.2 MS-DOS S/W REFERENCE
NIS	GPIB-PCII/IIA	320320-01	X	OPERATION CONFIGURATION PROGRAMMING
NIS	LAB-PC	320205-01	X	OPERATION AND PROGRAMMING
NIS	GPIB-PCII/IIA	320319-01	PROGRAM	USE WITH MICROSOFT WINDOWS 3
NJE CORP.	E/TFE SERIES	N/A	X	2 MANUALS
NJE CORP.	S-SERIES	N/A	X	2 MANUALS
NJE CORP.	CS72.5R18	N/A	X	SCHEMATIC ONLY
NJE CORP.	8-300-R	N/A	X	N/A
NJE CORP.	C2572 5AR18	N/A	X	N/A
NJE CORP.	CR-LINE	N/A	X	N/A
NJE CORP.	EA/ELA EB/ELB	N/A	X	N/A
NJE CORP.	H SERIES	N/A	X	N/A
NJE CORP.	HSV-5-20	N/A	X	N/A
NJE CORP.	OR 36-4	N/A	X	N/A
NJE CORP.	RS SERIES	N/A	X	N/A
NJE CORP.	RSC SERIES	N/A	X	N/A
NJE CORP.	SR 28-10	N/A	X	N/A
NJE CORP.	SR-SERIES	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
NJE CORP.	TC32-10	N/A	J	N/A
NJE CORP.	TR18-3-TR36-2	N/A	TECHNICAL	N/A
NMC	GS-3	N/A	SERVICE	N/A
NOL	2200	1173	TECHNICAL	N/A
NOL	2300	838B	TECHNICAL	N/A
NOL	2504	864	TECHNICAL	N/A
NOL	2504	864 REVC	TECHNICAL	N/A
NOL	2610	1127	TECHNICAL	N/A
NOL	126540	1392	TECHNICAL	N/A
NOL	MODEL S-1 DAS	100-069	TECHNICAL	N/A
NOL	S-1	927A	SERVICE	N/A
NOL	S-2	1243	TECHNICAL	N/A
NOL	SERIES X-2	837 REVD	E	N/A
NOL	X-1	812E	E	N/A
NON LINEAR SYSTEMS	481	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	784	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	4206	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	4818	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	484A/B	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	5005/5010	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	LM3A/LM3.5A	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	LM4	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	PM3.5	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	PM3.5	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	RM451TB	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	RM451TB	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	RM451TB	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	RV-2-B/P	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X1	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X1	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X1	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X2	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X3	N/A	E	INSTRUCTION
NON LINEAR SYSTEMS	X3	N/A	X	INSTRUCTION
NON LINEAR SYSTEMS	X3A	N/A	K	INSTRUCTION
NON LINEAR SYSTEMS	V35B/RB	N/A	E	INSTRUCTION PART 1
NON LINEAR SYSTEMS	V35B/RB	N/A	E	INSTRUCTION PART 2
NON LINEAR SYSTEMS	LM4	N/A	E	OPERATION AND CALIBRATION
NON LINEAR SYSTEMS	V60	N/A	E	OPERATIONS
NON LINEAR SYSTEMS	LM4	N/A	E	SPECIFICATION SHEET
NON LINEAR SYSTEMS	LM4	N/A	E	SPECIFICATION SHEET (XEROX)
NORLAND	2001	N/A	F	SCHEMATIC/2 MANUALS
NORTEC CORP.	NTD-101	N/A	X	N/A
NORTH AMERICAN INST.	10A	N/A	X	N/A
NORTH ATLANTIC	8810	N/A	E	ANGEL POSITION INDICATOR
NORTH ATLANTIC	800	N/A	X	N/A
NORTH ATLANTIC	202R 202AR 202BR	N/A	X	N/A
NORTH ATLANTIC	VM 202	N/A	X	N/A
NORTH HILLS	CS-11R	N/A	E	INSTRUCTION
NORTH HILLS	CS-14	N/A	E	NO MANUAL
NORTH HILLS	CS-140	N/A	E	OPERATORS
NORTH HILLS	CS-14A	N/A	E	OPERATORS
NORTH HILLS	CS-14A	N/A	E	OPERATORS
NORTH HILLS	CS-152	N/A	E	OPERATORS
NORTH HILLS	CS-152R	N/A	E	OPERATORS
NORTH HILLS	CS-152R	N/A	E	OPERATORS
NORTH HILLS	CS-152R	N/A	X	OPERATORS
NORTHERN SCIENTIFIC	NS-312	N/A	K	SCHEMATICS
NORTHRUP	AF33(657)7255	N/A	B	OPERATORS T.O. 33D2-18-23-1
NORTHWEST	NIN-CV1	N/A	B	N/A
NORTON	852	N/A	B	N/A
NORTON	853	N/A	B	N/A
NRC	315	N/A	B	N/A
NRC	530	N/A	B	N/A
NRC	551	N/A	B	N/A
NRC	552	N/A	B	N/A
NRC	554	N/A	B	N/A
NRC	563	N/A	B	N/A
NRC	710	N/A	B	N/A
NRC	720	N/A	B	N/A
NRC	720	N/A	B	N/A
NRC	751	N/A	B	N/A
NRC	752	N/A	B	N/A
NRC	753	N/A	B	N/A
NRC	754	N/A	B	N/A
NRC	754	N/A	B	N/A
NRC	763	N/A	B	N/A
NRC	830	N/A	B	N/A
NRC	831	N/A	B	N/A
NRC	836	N/A	B	N/A
NRC	855	N/A	B	N/A
NRC	856	N/A	TECHNICAL	N/A
NRC	204 6 54	N/A	B	N/A
NRC	710B	N/A	B	N/A
NRC	763 & 753	N/A	B	N/A
NRL EQUIPMENT CO.	HS & HK	N/A	TECHNICAL	2 MANUALS
NSC	BLC-80/316	420305923-001B	INSTALLATION	BOARD LEVEL COMPUTER
NSC	NS753	409109464-001	OPERATOR	NS753 MEMORY CARD INSTALLATION GUIDE
NSC	NS70/75	420103881A	DIAGNOSTIC	PDP11/70 MEMORY
NSC	NS789	409010090-001	J	N/A
NTK	AD16	AD16	H	MONTEST AD16 MONITOR TESTOR
NUCLEAR SYS. INC.	6472	N/A	N	OPERATOR'S MANUAL
NUCLEAR-CHICAGO	6000	N/A	N	2 FOLDERS/2 MANUALS & SCHEMATICS
NUCLEAR-CHICAGO	SERIES 2500	N/A	X	2 MANUALS
NUCLEAR-CHICAGO	3060	N/A	N	INSTALLATION OF
NUCLEAR-CHICAGO	2588	N/A	N	NO FOLDER/2 SCHEMATIC INCLUDED
NUCLEAR-CHICAGO	2586	N/A	N	NO FOLDER/SCHEMATIC INCLUDED

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NUCLEAR-CHICAGO	2612	N/A	N	SCHEMATIC INCLUDED
NUCLEAR-CHICAGO	2671	N/A	X	N/A
NUCLEAR-CHICAGO	40-9B	N/A	N	N/A
NUCLEAR-CHICAGO	DC & DCF	N/A	F	N/A
NUCLEAR-CHICAGO	DCS-1	N/A	N	N/A
NUCLEAR-CHICAGO	R10	N/A	D	N/A
NUCLEAR-CHICAGO	T4	N/A	X	N/A
NUCLEAR-DATA	2200	N/A	X	N/A
NUCLEAR-DATA	2200 & 2201	N/A	SERVICE	N/A
NUCLEAR-DATA	ND110	N/A	X	N/A
NUR	9070S	SM9070.20N	X	FLEXSCAN COLOR DISPLAY
OAK RIDGE TECHNICAL	109	N/A	OPERATOR	2 MANUALS
OAK RIDGE TECHNICAL	103-203	N/A	X	2 MANUALS
OFFNER ELECTRONICS	TYPE R	N/A	SERVICE	N/A
OGP	G5232	400220592	SCHEMATICS	COLOR THERMANL PLOTTER USER'S MANUAL
OKI	MICROLINE 84	M-520163	SERVICE	DOT-MATRIX PRINTER
OKI	MICROLINE 92	M-520220	Q	DOT-MATRIX PRINTER
OKI	MICROLINE 82A	M-520117	SERVICE	IMPACT MATRIX PRINT
OKI	2350	M-520175	OPERATOR	MAINT. PRINTS
OKI	390	59229701	OPERATOR	MICROLINE 390/391
OKI	2350	M-520249#1	SERVICE	PACEMARK 2350 OPERATORS MANUAL
OKI	2410	59214704	SERVICE	PACEMARK PRINTER
OKI	2410	58021301	SERVICE	PACEMARK PRINTER SUPPLEMENT MANUAL
OKI	2410	M-520182	SERVICE	SERVICE DIAGNOSTICS SCHEMATICS
OKI	82A/83A/84	M-520253	SERVICE	SUPER SPEED I/F
OKI	2410	59212202	SERVICE	N/A
OKI	192/193	59214502	OPERATOR	N/A
OKI	MICROLINE 82A	59206800	OPERATOR	N/A
OKI	MICROLINE 84	59206100	SERVICE	N/A
OKI	MICROLINE 93	M-520221	Q	N/A
OKIDATA	92	N/A	N/A	2 MANUALS
OKIDATA	OKITEL 2400	N/A	N/A	OWNER'S HANDBOOK
OKIDATA	MICROLINE 320	N/A	N/A	REFERENCE GUIDE
OKIDATA	MICROLINE 320	N/A	Q	SETUP GUIDE
OKIDATA	2350	N/A	Q	N/A
OKIDATA	2410	N/A	Q	N/A
OKIDATA	192/193	N/A	Q	N/A
OLYMPUS	M18V	N/A	H	N/A
OLYMPUS	OM-1	N/A	H	N/A
OMEGA	199 OPTION	N/A	H	DS DSS DS01 OP. INSTR.
OMEGA	6100	N/A	H	OPERATING MANUALS
OMEGA	199A	N/A	H	OPERATING MANUALS
OMEGA	199A	N/A	H	OPERATING MANUALS
OMEGA	199P1P2	N/A	H	OPERATING MANUALS
OMEGA	400B	N/A	H	OPERATING MANUALS
OMEGA	650/660	N/A	H	OPERATING MANUALS
OMEGA	CN300	N/A	N/A	OPERATING MANUALS
OMEGA	CN5000	N/A	H	OPERATING MANUALS
OMEGA	DP420	N/A	H	OPERATING MANUALS
OMEGA	DP651/661	N/A	H	OPERATING MANUALS
OMEGA	DP81/82	N/A	H	OPERATING MANUALS
OMEGA	DP900	N/A	H	OPERATING MANUALS
OMEGA	HH70	N/A	H	OPERATING MANUALS
OMEGA	Q2/Q9	N/A	H	OPERATING MANUALS
OMEGA	Q2/Q9	N/A	N/A	OPERATING MANUALS
OMEGA	70	N/A	H	OPERATORS
OMEGA	920	N/A	H	OPERATORS
OMEGA	4000	N/A	H	OPERATORS
OMEGA	4000	N/A	H	OPERATORS
OMEGA	6000	N/A	H	OPERATORS
OMEGA	199A	N/A	H	OPERATORS
OMEGA	400A	N/A	H	OPERATORS
OMEGA	48 49 50	N/A	H	OPERATORS
OMEGA	48 49 50	N/A	H	OPERATORS
OMEGA	51 52 53	N/A	H	OPERATORS
OMEGA	5830/31	N/A	H	OPERATORS
OMEGA	AUTO SIG.SCANNER	N/A	H	OPERATORS
OMEGA	CN 2000	N/A	H	OPERATORS
OMEGA	CN 9000	N/A	H	OPERATORS
OMEGA	CN-25	N/A	H	OPERATORS
OMEGA	DP 81/82	N/A	B	OPERATORS
OMEGA	DP 900	N/A	B	OPERATORS
OMEGA	DP2000S	N/A	E	OPERATORS
OMEGA	DP350/352	N/A	H	OPERATORS
OMEGA	DP420	N/A	H	OPERATORS
OMEGA	HH70	N/A	H	OPERATORS
OMEGA	HH99AJKT1 T2	N/A	B	OPERATORS
OMEGA	MCJ	N/A	H	OPERATORS
OMEGA	SOL. STATE RELAY	N/A	N/A	OPERATORS
OMEGA	RD3751/RD3752	N/A	N/A	REPAIR AND PARTS
OMEGA	CN 2002	N/A	H	SCHEMATICS
OMEGA	199	N/A	H	SERVICE
OMEGA	199	N/A	H	SERVICE
OMEGA	199	N/A	H	SERVICE
OMEGA	199	N/A	H	SERVICE
OMEGA	149/165	N/A	H	SERVICE
OMEGA	D5500	N/A	H	SERVICE MANUAL
OMEGA	DP-2000S	N/A	E	N/A
OMEGA	DP-420	N/A	E	N/A
OMEGA	PX102	N/A	H	N/A
OMEGA SIMMON	100 & 200	N/A	OPERATOR	N/A
OMEGA SIMMON	D5500	N/A	CAL PROCEDURE (FAX)	N/A
OMEGA TECHNOLOGIES CO.	OM500 SERIES	N/A	OPERATOR	12 CHANNEL RECORDER VOLTAGE/RESISTANCE/TC/RTD AND DMM
OMEGA TECHNOLOGIES CO.	RH70/RH70AC	N/A	N/A	HANDHELD TEMP/RH/DEW POINT INDICATOR
OMEGA TECHNOLOGIES CO.	RH70	N/A	N/A	TEMPERATURE CALIBRATION PROCEDURE (FAX SHEET)
ONO SOKKI	CF-350B	N/A	N/A	1 SERVICE 1 USERS CF-0383 OPTION
ONO SOKKI	CF-6400	N/A	N/A	FUNCTIONAL DESCRIPTION



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
ONO SOKKI	CF-6400	N/A	X	FUNCTIONAL DESCRIPTIONS (ADDITIONS)
ONO SOKKI	CF-6400	N/A	USERS CALIBRATION	GP-IB INSTRUCTIONS
ONO SOKKI	CF-6400	N/A	N/A	INSTRUCTION MANUAL(BASIC OPERATION)
ONOSOKKI	CF 900 & 910	N/A	X	N/A
ONSITE INSTRUMENTS INC	TECHFILTER	N/A	X	LOWPASS FILTER FOR PC/AT OR PC/XT'S 16 CHANNEL
OPAD	1398	N/A	X	N/A
OPAD	KM88/KM88B	N/A	X	N/A
OPAD	RS10-RS40B	N/A	X	N/A
OPHTOS	MPG-4M	N/A	X	N/A
OPTICS TECH.	190/191	N/A	X	4 MANUALS
OPTIMAL TECHNOLOGY	EP-2B-87	N/A	E	N/A
OPTRON	501	N/A	H	N/A
OPTRONIC	6650LCCA	N/A	B	OPERATORS
OPTRONICS	83	N/A	B	INSTRUCTION
ORANGE RESEARCH	1201	N/A	X	N/A
ORANGE RESEARCH	1202	N/A	X	N/A
OREGON	A3	N/A	SERVICE	N/A
OREGON	B3	N/A	TECHNICAL	N/A
ORI	8025G	88-036-XXX	N/A	BLDG 1152
ORI	8025G-24	88-041-01	N/A	BLDG 1152-OPTION 1
ORIEL	6611	N/A	X	2 MANUALS
ORIEL	70710	N/A	X	INSTRUCTION
ORIEL	68805	N/A	INSTRUCTION	INSTRUCTIONS MANUAL
ORIEL	79000 SERIES	N/A	X	INSTRUCTIONS MANUAL
ORIEL	68850	N/A	X	OPERATION/SERVICE
ORIEL	6302	N/A	X	N/A
ORIEL	18008	N/A	X	N/A
ORIEL	79000	N/A	U	N/A
ORRTRONICS	770 SERIES	N/A	E	773.200 .280 .310 774.410
ORTEC	220	N/A	X	2 MANUALS
ORTEC	450	N/A	X	2 MANUALS
ORTEC	456	N/A	N/A	2 MANUALS
ORTEC	401A-402A	N/A	X	3 MANUALS
ORTEC	124/125	N/A	X	OPERATION AND SERVICE
ORTEC	451	N/A	X	OPERATIONS & SERVICE MANUAL
ORTEC	5047	N/A	X	SERVICE
ORTEC	264	N/A	X	N/A
ORTEC	410	N/A	X	N/A
ORTEC	423	N/A	X	N/A
ORTEC	426	N/A	X	N/A
ORTEC	436	N/A	X	N/A
ORTEC	463	N/A	X	N/A
ORTEC	715	N/A	X	N/A
ORTEC	5049	N/A	X	N/A
ORTEC	106/107	N/A	X	N/A
ORTEC	403A	N/A	X	N/A
ORTEC	406A	N/A	X	N/A
ORTEC	416A	N/A	X	N/A
ORTEC	9503C SC D	N/A	H	N/A
OSAKA	TG1000	N/A	X	OPERATIONAL MANUAL
OSBORNE	OH	N/A	X	INSTRUCTION
OTHETA INST. CORP.	PPR-226	N/A	X	N/A
P.A.R.	CR-4 CR-4A	N/A	X	N/A
P.A.R.	CW-1	N/A	K	N/A
P.S.C.	122 BRF	N/A	X	2 MANUALS/2 FOLDERS
P.S.C.	270	N/A	OPERATOR	N/A
P.S.C.	DC-100BR	N/A	H	N/A
PAC	CRAFT 25/25E	5050-0219	H	SURFACE MOUNT REPAIR STATION
PACE	BRJ1470TP694	N/A	H	INSTRUCTION
PACE	BRJ18/2P1712	N/A	H	INSTRUCTION
PACE	BRJR13-21TP-11116	N/A	H	INSTRUCTION
PACE	BRJR13-28TP-879	N/A	H	INSTRUCTION
PACE	BRJR13-36TP-704	N/A	H	INSTRUCTION
PACE	BRJR13S-42PP	N/A	H	INSTRUCTION
PACE	BRJR14-TP-776	N/A	E	INSTRUCTION
PACE	BRJR18-60TP-1446	N/A	H	INSTRUCTION
PACE	C26	N/A	SERV/CAL	INSTRUCTION
PACE WHITTAKER	BRJR42TP1748	N/A	E	INSTRUCTION
PACER INDUSTRIES INC.	DH100	N/A	E	DIGITAL HYGROMETER
PACIFIC	8255	N/A	N/A	OPERATION & MAINTENANCE
PACIFIC	3020/3910	N/A	E	OPERATION AND MAINTENANCE
PACIFIC	3210/3215	N/A	E	OPERATION AND MAINTENANCE
PACIFIC	R16D/R16DC	N/A	N/A	OPERATION AND MAINTENANCE
PACIFIC	60A/70A	N/A	N/A	OWNERS
PACIFIC	60A/70A	N/A	N/A	OWNERS
PACIFIC	8201	N/A	E	N/A
PACIFIC INST.	8270	N/A	K	OPERATION & MAINTENANCE MANUAL
PACIFIC INST.	8201/02/03/04	N/A	N/A	OPERATION & MAINTENANCE MANUAL
PACIFIC INST.	R10AWH	N/A	K	OPERATION & MAINTENANCE MANUAL
PACIFIC INSTRUMENTS	1001	N/A	K	2 MANUALS
PACIFIC INSTRUMENTS	9820/9830/9250	N/A	X	OPERATION
PACIFIC INSTRUMENTS	9831/32/33/34	N/A	X	OPERATION & MAINTENANCE
PACIFIC INSTRUMENTS	8650	N/A	N/A	OPERATION/SERVICE
PACIFIC INSTRUMENTS	8655	N/A	N/A	OPERATION/SERVICE
PACIFIC INSTRUMENTS	8656	N/A	N/A	OPERATION/SERVICE
PACIFIC INSTRUMENTS	1003	N/A	OPERATION/SERVICO	N/A
PACIFIC INSTRUMENTS	9831/32/33/34	N/A	INSTRUCTION (OPERATION/MAINTENANCE) MANUAL	N/A
PACIFIC INSTRUMENTS	ADG	N/A	INSTRUCTION (OPERATION/MAINTENANCE) MANUAL	N/A
PACIFIC MEASUREMENTS INCORPORATED	1038-H12/H13	N/A	INSTRUCTION (OPERATOR/SERVICE) MANUAL	HORIZONTAL AMPLIFIER PLUG-IN UNITS
PACIFIC MEASUREMENTS INCORPORATED	1038-D10/D11	N/A	INSTRUCTION (OPERATION/MAINTENANCE) MANUAL	MAINFRAME
PACIFIC MEASUREMENTS INCORPORATED	1038-V10/V11/V12	N/A	N/A	VERTICAL LOG AMPLIFIER PLUG-IN UNITS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
PACIFIC MEASUREMENTS INCORPORATED	1044	N/A	N/A	RESPONSE (X/Y) RECORDER
PACKARD BELL	PB2400+	N/A	SERVICE	SCHEMATICS ARE PROPRIETARY
PAKON	AM-301	N/A	SERVICE	SERVICE MANUAL
PAN	JU-257-PF	MSD870808002	SERVICE	APPLICATION MANUAL
PAN	FX-AF520	FX-AF520	SERVICE	AUTOMATIC DOCUMENT FEEDER
PAN	KX-P1091	KX-P1091-004	OPERATOR	MAINTENANCE INSTRUCTIONS
PAN	JU-257-P/-PF	MSD871011300	TECHNICAL	MAINTENANCE
PAN	P1180	KX-P1180	N/A	OPERATING INSTRUCTIONS
PAN	FX-RS505	FX-RS505	SERVICE	PANASONIC IMAGE SCANNER
PAN	FX-RS506	FX-RS506	SERVICE	PANASONIC IMAGE SCANNER
PAN	KX-P1124I	KM69012348C1	DATA ONLY	SERVICE MANUAL
PAN	KX-P1091	KX-P1091-004	SERVICE	THEORY OF OPERATION TECH DESCRIPTION
PANAMETRICS	V310	N/A	OPERATING	TRANSDUCER ULTRASONIC IMMERSION 5MHZ
PANAMETRICS INC	5052UA	N/A	OPERATING	INSTRUCTION MANUAL
PANAMETRICS INC.	1000	N/A	OPER/SERV	HYGROMETER
PANAMETRICS INC.	1000	N/A	OPER/SERV	HYGROMETER
PANAMETRICS INC.	2000	N/A	H	HYGROMETER
PANAMETRICS INC.	3000	N/A	H	HYGROMETER
PANARAMIC	3000	N/A	J	CALIBRATION
PANARAMIC	1000	N/A	H	OPERATION
PANARAMIC	2000	N/A	H	OPERATION/SERVICE
PANARAMIC	3000	N/A	X	OPERATION/SERVICE
PANARAMIC	5055 PR	N/A	X	N/A
PANARAMIC	AN/APA-38	N/A	X	N/A
PANARAMIC	AP-1	N/A	X	N/A
PANARAMIC	LP-1	N/A	X	N/A
PANARAMIC	PN-7	N/A	J	N/A
PANARAMIC	SA3 T2000	N/A	X	N/A
PANARAMIC	SA3 T-3000CI	N/A	J	N/A
PANARAMIC	SA-3 T-50 T-100	N/A	J	N/A
PANARAMIC	SA6 T-5000	N/A	X	N/A
PANARAMIC	SB-3	N/A	X	N/A
PANARAMIC	SB3 T200	N/A	X	N/A
PANASONIC	KX-P1091I	N/A	U	OPERATION ONLY
PANASONIC	AG-170	N/A	S	SERVICE MANUAL
PANASONIC	AG-1830	N/A	U	SERVICE MANUAL
PANASONIC	AG-1970P	N/A	K	SERVICE MANUAL
PANASONIC	BT-S700N/S701	N/A	K	SERVICE MANUAL
PANASONIC	PV-4900/PV-4904	N/A	O	SERVICE MANUAL
PANASONIC	WV-5470	N/A	N/A	SERVICE MANUAL
PANASONIC	WV-CD20/22/24	N/A	X	SERVICE MANUAL
PANASONIC	AG-6300	N/A	K	N/A
PANASONIC	AK-6100	N/A	K	N/A
PANASONIC	AS-1000	N/A	K	N/A
PANASONIC	CT-1010M	N/A	K	N/A
PANASONIC	CT-1020M MC	N/A	K	N/A
PANASONIC	CT-1920M	N/A	X-Q	N/A
PANASONIC	CT-500V	N/A	Q-X	N/A
PANASONIC	LF-5000	N/A	K	N/A
PANASONIC	NV-3000	N/A	U	N/A
PANASONIC	NV-3020	N/A	U	N/A
PANASONIC	NV-3020	N/A	U	N/A
PANASONIC	NV-3020C/SD	N/A	U	N/A
PANASONIC	PV-1400	N/A	K	N/A
PANASONIC	WJ-545P	N/A	K	N/A
PANASONIC	WV 1650	N/A	K	N/A
PANASONIC	WV-1410	N/A	K	N/A
PANASONIC	WV-5200/5203	N/A	K	N/A
PANASONIC	WV-5470	N/A	U	N/A
PANASONIC	WV-8950	N/A	U	N/A
PANASONIC	WV-V950	N/A	B	N/A
PARABAM	D10HRS	N/A	B	N/A
PAROSCIENTIFIC	600	N/A	N/A	INSTRUCTION
PAROSCIENTIFIC	200	N/A	E	N/A
PAROSCIENTIFIC	600	N/A	B	N/A
PARTICLE MEAS. SYS.	1.0MW TO 16.0 MW	N/A	H	OPERATORS
PARTICLE MEAS. SYS.	LHGR-0050	N/A	X	OPERATORS
PAYNE ENGINEERING	18A4	N/A	P	INSTRUCTION
PAYNE ENGINEERING	18E-2-150	N/A	P	N/A
PCB	CATALOG	N/A	R	1989 CATALOG
PCB	302A	N/A	R	ACCELEROMETER
PCB	302M15	N/A	R	ACCELEROMETER
PCB	303A07	N/A	R	ACCELEROMETER
PCB	303P03	N/A	OPERATOR	ACCELEROMETER
PCB	308A	N/A	B	ACCELEROMETER
PCB	K302A	N/A	E	ACCELEROMETER
PCB	CATALOG	N/A	E	ACCELEROMETERS
PCB	111A	N/A	B	CATALOG
PCB	112A	N/A	B	CATALOG
PCB	112A21	N/A	R	CATALOG
PCB	302A	N/A	R	CATALOG
PCB	480A21	N/A	N/A	ICP BATTERY POWER UNIT
PCB	484B	N/A	R	OPERATING GUIDE
PCB	105A	N/A	B	N/A
PCB PIEZOTRONICS	106M06	N/A	E	INSTRUCTION
PCB PIEZOTRONICS	402M11	N/A	E	INSTRUCTION
PCB PIEZOTRONICS	451A04	N/A	X	INSTRUCTION
PCB PIEZOTRONICS	451A04	N/A	N/A	INSTRUCTION
PCB PIEZOTRONICS	483M160	N/A	N/A	OPERATIONS MANUAL
PCB PIEZOTRONICS	483B07	N/A	X	SERVICE
PCB PIEZOTRONICS	484B	N/A	TECHNICAL	N/A
PCB PIEZOTRONICS INC	790A01	N/A	TECHNICAL	OPERATING GUIDE
PCJ	MG200/MG600	7942	X	OPERATOR MANUAL SCHEMATICS
PCJ	MG SERIES	MG2-4-6	TECHNICAL	PRINTER MULTIPLEXER INSTRUCTIONS + MODS
PCJ	MG SERIES	C4801001	OPERATOR	SCHEMATICS
PCJ	MG-SERIES	529000-1000	X	SCHEMATICS
PC'S LIMITED	286 SERIES	N/A	P	HARD DRIVE PRODUCT (UPDATE)

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
PC'S LIMITED	286 SERIES	N/A	P	HARD DRIVE PRODUCT USER'S GUIDE
PC'S LIMITED	286 SERIES	N/A	P	HARD DRIVE SETUP UTILITY GUIDE
PC'S LIMITED	MG-150	N/A	B	MONOGRAPHICS CARD USER'S MANUAL
PC'S LIMITED	D10-500	N/A	B	MULTI-I/O CARD USER'S MANUAL
PC'S LIMITED	286 SERIES	N/A	P	OWNER'S MANUAL AND GUIDE TO OPERATIONS
PEK LABS	401	N/A	W	N/A
PEK LABS	401A	N/A	W	N/A
PELCO	MPT24DT/115DT	N/A	W	INSTRUCTION
PELCO	PT270/24P	N/A	U	INSTRUCTION
PELCO	COAXITRON 2000	N/A	N/A	SYSTEM
PELCO	PT-550M	N/A	N/A	N/A
PELCO SALES	L25-D7	N/A	U	N/A
PEMCO	110	N/A	X	N/A
PEMCO	120	N/A	X	N/A
PENHIM ELECTRONICS	112	N/A	X	2 MANUALS
PENHIM ELECTRONICS	12C	N/A	E	N/A
PENHIM ELECTRONICS	MD5200/5230	N/A	X	N/A
PENN AIRBORNE	MIS 10412	N/A	N/A	OPERATING/SERVICE
PENRIL	9519-01	N/A	X	INSTRUCTION
PENTAX CAMERA	#230-2	N/A	X	N/A
PERKIN ELECTRONICS	MER1000	N/A	N/A	SCHEMATIC
PERKIN ELECTRONICS	040-05	N/A	X	N/A
PERKIN ELECTRONICS	040-2	N/A	X	N/A
PERKIN ELECTRONICS	1040-3-0-B	N/A	X	N/A
PERKIN ELMER	222-0360	N/A	N/A	INSTRUCTIONS MANUAL
PERKIN ELMER	1600FT-IR	N/A	N/A	OPERATOR VOL1
PERKIN ELMER	1600FT-IR	N/A	N/A	OPERATOR VOL2
PERKIN-ELMER	60-063	N/A	G	INSTRUCTIONS MANUAL
PERKIN-ELMER	60-063	N/A	G	INSTRUCTIONS MANUAL
PERKINS-ELMER	DSC-1B	N/A	SERVICE	INSTALLATION
PERKINS-ELMER	139 UV-VIS	N/A	H	INSTRUCTION
PERKINS-ELMER	DSC-1B	N/A	OPERATOR	INSTRUCTION
PERKINS-ELMER	139 UV-VIS	N/A	H	SERVICE
PGS	SR-12	SR-12	U	MONITOR
PGS	PGS-HX12	714924A100105	SERVICE	RGB COLOR MONITOR
PGS	PGS-HX12	714942A100103	SERVICE	RGB COLOR MONITOR
PGS	MAX-12	MAX-12	SERVICE	SCHEMATICS
PGS	ULTRA 14/16	33543	X	ULTRASYNCH SERIES SERVICE MANUAL
PHI-DECK	SEARCH 400	N/A	X	INSTRUCTION
PHILBRICK RESEARCHES	R-100B	N/A	X	2 MANUALS
PHILBRICK RESEARCHES	Q-3MIP	N/A	X	3 MANUALS
PHILBRICK RESEARCHES	R-300	N/A	K	4 MANUALS
PHILBRICK RESEARCHES	PR-300	N/A	X	4 MANUALS (SPECS)
PHILBRICK RESEARCHES	150	N/A	X	N/A
PHILBRICK RESEARCHES	6033 & 6033C	N/A	X	N/A
PHILBRICK RESEARCHES	R-500	N/A	K	N/A
PHILIPS	PM 5150	N/A	K	OPERATION AND CALIBRATION
PHILIPS	PM3285A/PM3286A	N/A	OPERATION	OPERATIONS MANUAL
PHILIPS	PM3285A/3286A	N/A	N/A	OPERATORS
PHILIPS	PM3065-PM3067	N/A	K	SERVICE MANUAL
PHILIPS	PM3285A/PM3286A	N/A	L/N	SERVICE MANUAL
PHILIPS (FLUKE)	PM2534	N/A	N/A	SYSTEM MULTIMETER
PHILIPS GAUGE	PNG-1	N/A	G	N/A
PHILLIPS	PM3295A-PM3296A	N/A	X/K	OPERATION MANUAL
PHOENIX PRECISION	NONE	N/A	X	N/A
PHOTOCON	DG-605D	N/A	A	4 MANUALS
PHOTOCON	PS-616	N/A	G	INSTRUCTION
PHOTOCON	PA-303	N/A	A/X	OPERATION AND SERVICE MANUAL
PHOTOCON	PC-125	N/A	G	SCHEMATICS
PHOTODYNE	22XL	N/A	G	INSTRUCTION
PHOTODYNE	44XL	N/A	G	INSTRUCTION
PHOTODYNE	88XL	N/A	G	OPERATION
PHOTO-SONICS	16MM-1B	N/A	A	SERVICE MANUAL
PHOTO-SONICS INC.	IP	N/A	A	N/A
PHOTOVOLT	520-M	N/A	G	N/A
PHOTOVOLT CORP.	500	N/A	W	2 MANUALS
PHOTOVOLT CORP.	512	N/A	K/W	N/A
PHOTRON INST. CO.	F8C	N/A	N/A	RH/TEMP PROBE (COPY)
PHOTRON INST. CO.	438/012	N/A	OPER/SERV	N/A
PHYS-CHEMICAL RESEARCH CORP.	207	N/A	N/A	TRANSIENT WAVEFORM RECORDER
PHYSICAL DATA INC.	515A	N/A	USER MANUAL	INSTRUCTION/SERVICE MANUAL
PHYSICAL ELECTRONICS	1500	N/A	INSTALLATION	INTERNAL/EXTERNAL DISK SYSTEM
PIA	ID/ED	780149	K	INSTALLATION OPERATION DIAGNOSTIC
PIA	ID/ED	780136	INSTALL OPERATION	SOFTWARE DRIVERS
PIA	ID60-AT	780075	K/W	N/A
PIONEER	VP-1000	N/A	X-E	NO MANUAL
PIONEER MAGNETICS	PM 1870	N/A	IPB	ALREADY ENTERED IN SYSTEM BUT LISTED NO MANUAL
PIONEER MAGNETICS	PM1870	N/A	SERVICE	N/A
PIX	P600	983273	SERVICE	BOOK AT ACD
PKE	34-033 PWR SUP	H29-595	TECHNICAL	AT NASA BLDG1 230 X2466 R.WRIGHT
PKE	502 PE	201348-001	SERVICE	CRT PAGE PRINTER
PKE	7500	0993-8127	TECHNICAL	DISC 100/200 TPI
PKE	F/T 100/200 TPI	301245-001	TECHNICAL	FOR PDP11/10 DISC
PKE	3600DATASTATION	N-500 000-9	TECHNICAL	FORMATTER
PKE	501 NRZI	200250-001	TECHNICAL	FORMATTER
PKE	MOD 11/PE/NRZI	201540-001	SCHEMATICS	LONGBOOK
PKE	SUPER SERIES	301462V1	SCHEMATICS	MAG. DISC DRIVE-LB
PKE	SUPER SERIES	301462V2	SCHEMATICS	MEMORY FOR DECPDP1 1
PKE	7500	0993-8126	TECHNICAL	VOL 1
PKE	7500	0993-8127	SERVICE	VOLUME I
PKE	650/655	59300-0037-00	SERVICE	VOLUME II
PKE	F/T 100TPI	300190F	TECHNICAL	N/A
PLES	PM-S11L	703360	E	MEMORY FOR DECPDP1 1
PLES	PM-S11L/NP	703535	E	OPERATION
PLUG-IN	SID-2022-P	N/A	X	2 MANUALS/1 FOLDER OF SCHEMATICS
PLUG-IN	ECJ-6249	N/A	W	OPERATION
PLUG-IN INSTRUMENTS	CJ-1962&ECJ-3197	N/A	N/A	2 INSTRUCTION SHEETS & SCHEMATICS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
PLUG-IN INSTRUMENTS	SERIES SPS-2000	N/A	TECHNICAL	ALL TECHNICAL DATA IS PROPRIETARY
PLUS DEVELOP. CORP.	PLUS 40 HARDCARD	N/A	TECHNICAL	SIGMA5 LAMP POWER
PMC	UNI/OEM SERIES	HEW-H5-0V	X	POWER SUPPLIES
PMC	HEV/HEW	X124	TECHNICAL	TECHNICAL MANUAL
PMC	UNI/OEM SERIES	HEW-H5-0V	SERVICE	TECHNICAL MANUAL
PMC	UNI/OEM SERIES	OEM-24-C-0V	X	N/A
PML	BP34C/BP SERIES	N/A	L	N/A
PML	PT-15B	N/A	K	N/A
PMS INC.	KLWC-5	N/A	K	N/A
POLARAD ELECT. CORP.	1107 8 & 1207 8	N/A	J	N/A
POLARAD ELECT. CORP.	632C-1	N/A	J/K	N/A
POLARAD ELECT. CORP.	CATALOG	N/A	K	N/A
POLARAD ELECT. CORP.	MD1205 & 1206	N/A	L	N/A
POLARAD ELECT. CORP.	PMK	N/A	F	N/A
POTTER AERONAUT. CO.	11AN	N/A	K	SCHEMATICS
POTTER AERONAUT. CO.	3046	N/A	L	N/A
POTTER AERONAUT. CO.	646-SP442	N/A	X	N/A
POTTER AERONAUT. CO.	NONE	N/A	X	N/A
POTTER INST. CO.	581M	N/A	X	POWER SUPPLY
POTTER INST. CO.	548-SP-233	N/A	SCHEMATICS	N/A
POW	POWER SUPPLY	2020250-004	X	SPECS
POWER DESIGNS	2005A	N/A	X	1 MANUAL/1 SPECS
POWER DESIGNS	4005	N/A	X	2 MANUALS
POWER DESIGNS	304M	N/A	X	2 MANUALS
POWER DESIGNS	3K20 P.S.	N/A	X	2 MANUALS
POWER DESIGNS	5015A	N/A	X	2 MANUALS
POWER DESIGNS	D.S. CATALOG	N/A	X	2 MANUALS
POWER DESIGNS	3K20	N/A	X	2 MANUALS & SCHEMATICS
POWER DESIGNS	2020B	N/A	X	4 MANUALS
POWER DESIGNS	1010T P.S.	N/A	E	5 MANUALS
POWER DESIGNS	2015R	N/A	X	INSTRUCTION
POWER DESIGNS	1565	N/A	X	INSTRUCTION
POWER DESIGNS	2005	N/A	X	INSTRUCTION
POWER DESIGNS	3240	N/A	X	INSTRUCTION
POWER DESIGNS	12105	N/A	E	INSTRUCTION
POWER DESIGNS	1543A	N/A	X	INSTRUCTION
POWER DESIGNS	2005	N/A	E	NO MANUAL
POWER DESIGNS	1544/1547	N/A	X	SPECS
POWER DESIGNS	322	N/A	X	N/A
POWER DESIGNS	3240	N/A	E	N/A
POWER DESIGNS	1544/1547 P.S.	N/A	E	N/A
POWER DESIGNS	2005A	N/A	INSTRUCTION	N/A
POWER DESIGNS	2K10	N/A	X	N/A
POWER DESIGNS	302M	N/A	X	N/A
POWER DESIGNS	323M	N/A	X	N/A
POWER DESIGNS	3K20	N/A	X	N/A
POWER DESIGNS	5015S	N/A	X	N/A
POWER DESIGNS	AEC 320.3	N/A	X	N/A
POWER DESIGNS	AEC320-5	N/A	X	N/A
POWER DESIGNS	TW4005	N/A	X	N/A
POWER DESIGNS	TW5005	N/A	X	N/A
POWER DESIGNS	UPM-6-M2	N/A	E	N/A
POWER DIAL	NONE	N/A	X	INSTRUCTION
POWER INSTRUMENTS	832	N/A	X	N/A
POWER PAC INC.	PPMD SERIES	N/A	X	N/A
POWER/MATE CORP.	PT-15B	N/A	X	2 MANUALS/1 SCHEMATIC/PRODUCT DATA
POWER/MATE CORP.	BP34C D&BP18C D	N/A	X	4 MANUALS/SCHEMATICS/PRODUCT DATA
POWER/MATE CORP.	TBP8C D&BP60D	N/A	E	INCLUDES PRODUCT DATA
POWER/MATE CORP.	UNI 30F	N/A	X	INSTRUCTION
POWER/MATE CORP.	ESD SERIES	N/A	X	INSTRUCTION MANUAL & PRODUCT DATA
POWER/MATE CORP.	NONE	N/A	X	NO FOLDER/2 MANUALS
POWER/MATE CORP.	BP34C.D&BP89.11B	N/A	X	PRODUCT DATA/NO MANUAL
POWER/MATE CORP.	PME-24V	N/A	X	N/A
POWER/MATE CORP.	PXS-EE-5V	N/A	X	N/A
PPM	SG-15	N/A	K	N/A
PRD	812	N/A	X	N/A
PRD ELECTRONICS INC.	812	N/A	OPERATION AND MAINT MAN	2 CATALOGS
PRD ELECTRONICS INC.	CATALOG	N/A	MAINTENANCE MANUAL	MANUAL INCLUDES SCHEMATICS
PRD ELECTRONICS INC.	277B	N/A	X	N/A
PRD ELECTRONICS INC.	277D	N/A	X	N/A
PRD ELECTRONICS INC.	801-A	N/A	X	N/A
PRD ELECTRONICS INC.	809-A	N/A	X	N/A
PRE	GMAD-3A	82950-03	K	WYLE PRODUCED MANUAL
PRE	GM SERIES ADC	82950-02	BENCH TEST PROCEDURES	N/A
PRE	GMAD-3A	82950-04	K	N/A
PRECISION APPARATUS	E-310	N/A	E	N/A
PRECISION ECHO	VDR-IRA	N/A	N/A	INSTRUCTION
PRECISION FILTERS	216A	N/A	Q	OPERATORS/MAINTENANCE
PRECISION FILTERS	545	N/A	Q	N/A
PRECISION FILTERS	616	N/A	X	N/A
PRECISION FILTERS	616-C-03	N/A	H	N/A
PRECISION STD.	AC210B AC DCV	N/A	USERS MANUAL	N/A
PRECISION THERMOME.	400-10-B-44	N/A	E	SCANNER JUNCTION UNIT & ASSOCIATED CABLES
PRESSURE SYSTEMS INC.	S84IFC	N/A	E	INSTRUCTION
PRESTON	X-MOD	N/A	X/K	2 MANUALS
PRESTON	1002	N/A	E	INSTRUCTION
PRESTON	8300XWB	N/A	E	INSTRUCTION
PRESTON	8300XWB	N/A	E	INSTRUCTION
PRESTON	AC-210B-1	N/A	X	INSTRUCTION
PRESTON	GMAD 1/2/3	N/A	Q	N/A
PRINCETON APPLIED	194	N/A	X	INSTRUCTIONS MANUAL
PRINCETON APPLIED	112	N/A	E	2 MANUALS
PRINCETON APPLIED	121	N/A	K/X	2 MANUALS
PRINCETON APPLIED	184	N/A	E	2 MANUALS
PRINCETON APPLIED	215	N/A	K	2 MANUALS
PRINCETON APPLIED	100A & 101A	N/A	K	2 MANUALS
PRINCETON APPLIED	114 & 116	N/A	K/X	2 MANUALS

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
PRINCETON APPLIED	193	N/A	K	2 MANUALS/2 FOLDERS
PRINCETON APPLIED	212	N/A	K	2 MANUALS/2 FOLDERS
PRINCETON APPLIED	212	N/A	K	2 MANUALS/2 FOLDERS
PRINCETON APPLIED	222	N/A	K	2 MANUALS/2 FOLDERS
PRINCETON APPLIED	CS-3.1	N/A	X	3 MANUALS
PRINCETON APPLIED	113	N/A	K	INSTRUCTION
PRINCETON APPLIED	186	N/A	K	INSTRUCTION
PRINCETON APPLIED	128A	N/A	K	INSTRUCTION
PRINCETON APPLIED	211 & 213	N/A	K	INSTRUCTION
PRINCETON APPLIED	M189	N/A	X	INSTRUCTION
PRINCETON APPLIED	OMA	N/A	B	SCHEMATICS INCLUDED
PRINCETON APPLIED	113	N/A	K/X	N/A
PRINCETON APPLIED	126	N/A	E	N/A
PRINCETON APPLIED	134	N/A	K	N/A
PRINCETON APPLIED	162	N/A	K/X	N/A
PRINCETON APPLIED	165	N/A	K	N/A
PRINCETON APPLIED	188	N/A	K/D	N/A
PRINCETON APPLIED	189	N/A	K	N/A
PRINCETON APPLIED	192	N/A	K	N/A
PRINCETON APPLIED	210	N/A	E	N/A
PRINCETON APPLIED	230	N/A	X	N/A
PRINCETON APPLIED	5202	N/A	X	N/A
PRINCETON APPLIED	120 & 122	N/A	K/X	N/A
PRINCETON APPLIED	124 & 124A	N/A	K/X	N/A
PRINCETON APPLIED	216/217	N/A	K	N/A
PRINCETON APPLIED	HR-8	N/A	X	N/A
PRINCETON APPLIED	JB-4 & JB-5	N/A	E	N/A
PRINCETON APPLIED	TC-100.2	N/A	Q-X	N/A
PRINCO	453	N/A	MAINT	N/A
PRINTRONIX	3121	N/A	OPER	MAINTENANCE
PRINTRONIX	P300/600	N/A	M/X	MAINTENANCE
PRINTRONIX	P300/600	N/A	N/A	OPERATORS
PRINTRONIX	P9012	N/A	M/X	N/A
PRL ELECT. INC.	CP-1098-8F	N/A	Q	SCHEMATIC
PRL ELECT. INC.	PM-1K-01A	N/A	X	SCHEMATICS INCLUDED
PRO LOG	SERIES 90	N/A	N/A	INSTRUCTIONS MANUAL
PROBESCOPE	TA-100L	N/A	K	3 MANUALS
PROBESCOPE	VSG-100	N/A	Q	OPERATION
PROBESCOPE	LCA-1	N/A	K	SOME FOLDER AS TA-100L
PROBESCOPE	SS-500	N/A	K	SPARE FOLDER AS LCA-1
PROBESCOPE	LCA-1	N/A	X	N/A
PROBESCOPE	LL-120	N/A	K	N/A
PROBESCOPE	LL-120	N/A	K	N/A
PROBESCOPE	LL-190 A&M	N/A	K	N/A
PROBESCOPE	LL-190M	N/A	K	N/A
PROBESCOPE	LL-190M	N/A	K	N/A
PROBESCOPE	S-1	N/A	K	N/A
PROBESCOPE	TA-120L	N/A	H	N/A
PROGRAMMED POWER	3200	N/A	E	3 MANUALS/2 FOLDERS
PROGRESS ELEC. CO.	825A	N/A	E	TECHNICAL MANUAL
PRO-LOG	701B-051	N/A	N/A	2 ENVELOPS
PRO-LOG	PM9052 PM9005A	N/A	K	SPECTRUM ANALYZER
PROMAC	DHT 820	N/A	E	OPERATION
PROMAC	DHT 820	N/A	Q	USER GUIDE
PROTEON	SERIES P30XX	N/A	E	SCHEMATICS ARE PROPRIETARY
PROTEON INC.	P1100 & P1500	N/A	N/A	USER'S MANUAL
PSI	780B	N/A	B	1 SCHEMATICS 1 PROCEDURES 2 MASTER DWG LIST
PSI	780B/7	N/A	B	M00863/PRESSURE MEASUREMENT SYSTEM
PSI	780 B/T	N/A	Q	PRESSURE SYSTEM
PSI	780B/7	N/A	B	N/A
PSI	PG-4/20	N/A	B	N/A
PSI	PG-6000	N/A	X	N/A
PSI	SONIX	N/A	X	N/A
PSL	270	N/A	B	N/A
PSL	DC 100BR	N/A	B	N/A
PTC	D-2000	N/A	OPERATOR	INSTRUCTION
PTC	SG100	N/A	SERVICE	INSTRUCTIONS
PTC	2500	N/A	E	N/A
PTX	P6000	108525-001	SERVICE	BAND PRINTER
PTX	P600	103976	SCHEMATICS	FIELD MAINTENANCE MANUAL
PTX	P6000	108692-001	SERVICE	FLOOR CABINET MAINTENANCE MANUAL
PTX	3001	DPC3001-1	SERVICE	IPB AND SCHEMATICS
PTX	P6212	134630-001	SERVICE	IPB MAINTENANCE
PTX	P300/P600	107651-001REVB	ENGINEERING	MAINTENANCE INSTRUCTIONS
PTX	P6000	108693-001	SERVICE	MAINTENANCE MANUAL
PTX	P9012	132305-001	N/A	MAINTENANCE MANUAL
PTX	P9012	132089-001	SERVICE	P9012 LPTR (COMMON CABINET MODE L)
PTX	P600	103976	SCHEMATICS	PRINTER
PTX	P3000	111839-001	IPB	RS-232 CONFIGURATION
PTX	P600	105446	OPERATOR	RS-232 CONTROLLER-SPECS
PTX	P600	900806	OPERATOR	RS-232 INTERFACE
PTX	P6000	3001-1	SERVICE	SERVICE
PTX	P600	102486REVB	TECHNICAL	SERVICE/LOGIC
PTX	P600	105485	OPERATOR	USER REFERENCE
PTX	MVP PRINTER	110578	SERVICE	USERS
PTX	3001	60602A	OPERATOR	N/A
PTX	P600	104975R	ENGINEERING	N/A
PTX	P600	105485	OPERATOR	N/A
PTX	P600	105564	TECHNICAL	N/A
PTX	P6000	108534-001	SERVICE	N/A
PULNIX	TM-34K -36K	N/A	X	CATALOG
PULSE ENGINEERING	N/A	N/A	N/A	SCHEMATICS INCLUDED
PULSE INSTRUMENTS	PI-5800A	N/A	X	INSTRUCTIONS
PULSE INSTRUMENTS	P1-702	N/A	X	OPERATORS MANUAL
PULSE MONITOR	2010	N/A	G	SCHEMATICS
PULSE RATE	M-250	N/A	G	CALIBRATION
PYRO	DIGITAL 500	N/A	G	CALIBRATION

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
PYRO	PHOTO II	N/A	N/A	CARTRIDGE TAPE DRIVE
PYRO	PHOTO II	N/A	G	INSTRUCTION
PYRO	DIGITAL 500	N/A	G	OPERATION
PYRO	DIGITAL 500	N/A	G	OPERATION
PYRO	DIGITAL 500	N/A	G	OPERATION
PYRO	PHOTO II	N/A	G	OPERATION
PYRO	DIGITAL 500	N/A	G	OPERATION/MAINTENANCE
PYRO	DIGITAL 500	N/A	G	OPERATION/MAINTENANCE
PYRO	DIG. 500 MARK II	N/A	G	PARTS LIST
PYRO	DIGITAL 500	N/A	G	PARTS LIST
PYRO	PHOTO II	N/A	G	SCHEMATIC
PYRO	PHOTO II	N/A	N/A	SCHEMATIC
PYRO	MICRO-OPT. PYRO	N/A	G	SPECIFICATIONS
QANTEX	650	N/A	OPERATION	OPERATION
QMS	1725	N/A	N/A	OPERATION
QMS	LBP-5X	N/A	Q	OPERATOR
QMS	COLORSCRIPT 100	N/A	X-Q	SERVICE
QMS	PS815MR	N/A	SERVICE	SPARE PARTS PRICE LIST
QMS	PS810	N/A	CATALOG	USER MANUAL
QMS	PS810	N/A	U	N/A
QMY	G650	1800142-001B	OPERATOR	COLOR PRINTER MAINTENANCE MANUAL
QMY	CSC110	80SLSP-F0228C	MAINTENANCE	COLORSCRIPT 100 MODEL 30I USER'S MANUAL
QMY	JET SCRIPT	1720341A	SERVICE	LBP-LX SERIES PARTS CATALOG
QMY	PS-410	RY8-3142-000	CATALOG	LBP-LX SERIES SERVICE MANUAL
QMY	PS2220	P-FQ-M301	K	OPERATOR'S GUIDE/ WITH SOFTWARE DRIVERS
QMY	PS-410	RY8-1343-000	SERVICE	PARTS/PRICE LIST PRODUCT DESCRIPTION
QMY	PS2220	P-FQ-P301	OPERATOR	SERVICE HANDBOOK/MAINTENANCE INSTRUCTION
QMY	ALL	PARTS	OPERATOR	SERVICE/MAINTENANCE MANUAL
QMY	G650	LSP-F0072D	CATALOG	N/A
QMY	PS800	1720477A	K	N/A
QUAL CORP.	QC400	N/A	K	N/A
QUAN-TECH	304TDL	N/A	E	OPERATION/MAINTENANCE
QUAN-TECH	301	N/A	X	N/A
QUAN-TECH	303	N/A	K	N/A
QUAN-TECH	303	N/A	X	N/A
QUAN-TECH	304TDL	N/A	E	N/A
QUANTRONIX	501	N/A	E	OPERATION/MAINTENANCE
QUANTRONIX	500/503	N/A	E	OPERATION/MAINTENANCE
QUANTRONIX	502A	N/A	Q	OPERATION/MAINTENANCE
QUANTRONIX	504A	N/A	N/A	N/A
QUBIE	PC207/E	N/A	W	BIO-ACOUSTIC SIMULATOR
QUEST ELECT.	BA-201	N/A	OPERATING INSTRUCTIONS	3 MANUALS
QUICK-SET INC.	NONE	N/A	R	SIGNAL GENERATOR FM
R S ELECTRONICS	1021	N/A	R	VARIOUS MODELS OF GYROS
R.C. ALLEN	CATALOG	N/A	R	GYROS
R.C. ALLEN	F2880-053	N/A	R	GYROS
R.C. ALLEN	F2880-054	N/A	K	GYROS
R.C. ALLEN	F2880-055	N/A	J	N/A
R.C.A.	WV-98C	N/A	H	3 MANUALS
R.C.A.	155A	N/A	J	N/A
R.C.A.	1723101-501	N/A	J	N/A
R.C.A.	1723105-501	N/A	J	N/A
R.C.A.	1723149-501	N/A	K	N/A
R.C.A.	1726105-502	N/A	X	N/A
R.C.A.	T0-2	N/A	X	N/A
R.C.A.	WA-44C	N/A	K	N/A
R.C.A.	WG-289/290	N/A	X	N/A
R.C.A.	WO-33B	N/A	X	N/A
R.C.A.	WV-38A	N/A	X	N/A
R.D. INSTRUMENTS	1602	N/A	E	INSTRUCTION
R.M. YOUNG CO.	12101/12301	N/A	X	INSTRUCTION
RACAL	D1704	N/A	F	N/A
RACAL	9478	N/A	N/A	M00904/COUPLER ACOUSTIC
RACAL	1200	N/A	F	N/A
RACAL ELECT. GROUP	VA/VC 3412/13	N/A	X	M00915/OSCILLOSCOPE/MULTIMETER DGT.
RACAL ELECTRONICS	VA3450	N/A	Q/X	ELECTRONIC MEASURING INSTRUMENTS
RACAL-VADIC	VA 3450P/S/G	N/A	X	ASSORTED MANUALS IN BINDER
RADGUN	ASST.	N/A	Q	N/A
RADIATION I.D. LAB	40-11	N/A	Q	SCHEMATICS 4 SHEETS
RADIATION INC.	5610 & 5611	N/A	J	SPECIFICATIONS
RADIATION INC.	5610 & 5611	N/A	J	N/A
RADIO FREQUENCY	531	N/A	J	N/A
RADIO FREQUENCY	541A	N/A	Q	N/A
RADIO SHACK	TRS 80 DWP-210	N/A	Q	2 MANUALS
RADIO SHACK	TRS-80	N/A	Q	2 MANUALS
RADIO SHACK	TRC-500	N/A	P	N/A
RADIO SHACK	TRS-80 DISK INT.	N/A	L	N/A
RADIO SHACK	TRS-80 PLOTTER	N/A	L	N/A
RAMAPO	MARK VI	N/A	N/A	INSTRUCTIONS MANUAL
RAPID SYSTEMS	R370	N/A	X	2 MANUALS 1 SCHEMATIC
RAPID SYSTEMS	R360	N/A	X	OPERATORS
RATHEON	VP 200	N/A	G	2 MANUALS
RATHEON	QRD	N/A	X	MANUAL & SCHEMATICS
RATHEON	QMA	N/A	X	SCHEMATICS
RATHEON	QRE 10-2.2/3.7	N/A	X	SPECIFICATIONS SHEET
RATHEON	2000	N/A	X	N/A
RATHEON	VP 1-2-3	N/A	X	N/A
RAWSON	820	N/A	G	INFO SHEET
RAYTEK	RAYNGER II	N/A	G	INSTRUCTION
RAYTEK	SL-230-AC	N/A	G	INSTRUCTION
RAYTEK	SL-250-AC	N/A	G	INSTRUCTION
RAYTEK	SL-270-AC	N/A	G	INSTRUCTION
RAYTEK	SL-280-AC	N/A	G	INSTRUCTION
RAYTEK	SL-300-AC	N/A	U	INSTRUCTION
RAYTEK	FR-150	N/A	G	SPECIFICATIONS
RAYTEK	LR-120/N	N/A	G	USER
RAYTEK	MR-150	N/A	G	USER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
RAYTEK	R-38	N/A	G	USER
RAYTEK	R-380	N/A	G	USER
RAYTEK	R-45	N/A	G	USER
RAYTEK	R2HT	N/A	G	USERS
RAYTEK	R2LT	N/A	G	USERS
RAYTEK	R-450	N/A	G	USERS
RAY-TEK	R-1	N/A	G	USER
RCA	VKT-700	N/A	X	OPERATING AND MAINTENANCE (XEROX)
RCA	VV-77E	N/A	SEE DEQ VR17	SCHEMATIC
RCA	ADVISER 152B	N/A	U	TECH MANUAL
RCA	ADVISER-152B	N/A	U	N/A
RCA	HAWKEYE HR-2	N/A	U	N/A
RCA	TR-4	N/A	E	N/A
RDA INC.	520M102	N/A	SERVICE	N/A
RDAC	1	REF	N/A	SERVICE
RDU	350	KDM-2066	U	OPERATION AND SERVICE MANUAL
REALISTIC	TRC-83	N/A	E	N/A
RECORD-A-CALL	60 70 80	N/A	PROGRAMMING	INSTRUCTION
REDCOR	361	N/A	DATA BOOK	PROGRAM AND DATA SETS
REF	POWER DEVICES	IC	SGS 1987	ZSKXXX DEVICE DATABOOK
REF	ECL IN PS	DL140	FAIRCHILD 1985	74ACTXX DATA SPECS
REF	8/16 MICRO-P	IC	FAIRCHILD 1985	8 BIT MICROCOMPUTER DATABOOK APPS NOTES
REF	8/16 BIT LSI DB	SPECIAL	HIT 1985	8/16 BIT MULTICHIP MICRO-P APPS NOTES
REF	FACT DATABOOK	IC	MOT 1988	ADV SCHOTTKY TTL
REF	NSC 1990	400019	HANDBOOK	ALS/AS LOGIC
REF	MOS MEMORY DATA	IC	DATA300C	ANSI SCSI STANDARD
REF	HD63265FDC(DB)	SPECIAL	HIT 1986	APPS ADVANCED NOTES CMOS SPECS LOGIC
REF	1990	DYNAMIC MEMORY DESIGN	HIT 1987	APPS NOTES SPECS
REF	8 BIT CPU	IC	HIT 1985	APPS NOTES SPECS
REF	BICMOS LOGIC	DL141	MBI 1985	APPS NOTES SPECS
REF	DATA ACQUISITIO	IC	1987	APPS NOTES SPECS
REF	HD74AC/ACT DATA	IC	HIT 1986	APPS NOTES SPECS
REF	IC MASTER VOL 3	IC	DATA BOOK	APPS NOTES SPECS
REF	ITL DATA VOL 4	IC	TEX 1984	APPS NOTES SPECS
REF	LINEAR CIRCUITS	IC	MOT 1988	APPS NOTES SPECS
REF	LINEAR I/F	IC	TEX 1986	APPS NOTES SPECS
REF	MCPU + MEM PROD	IC	MOT 1988	APPS NOTES SPECS
REF	MEMORY	IC	SONY 1989	APPS NOTES SPECS
REF	MEMORY DATA	IC	MOT 1979	APPS NOTES SPECS
REF	MICRO / PERI PH	IC	MOT 1978	APPS NOTES SPECS
REF	NSC 1992	400014	MOT 1988	APPS NOTES SPECS
REF	PRODUCT CATALOG	IC	BUB 1985	APPS NOTES SPECS
REF	PRODUCT DATABOO	IC	BUB 1985	APPS NOTES SPECS
REF	PRODUCT DATABOOK	IC	BUB 1985	APPS NOTES SPECS
REF	SUPPLEMENT	IC	MOT 1988	APPS NOTES SPECS
REF	USERS GUIDE	SPECIAL	TOS 1985	APPS NOTES SPECS
REF	BIP UP + I/F	IC	AMD 1986	APPS NOTES SPECS LS TTL
REF	MEMORY DATABOOK	IC	IEL 1987	APPS NOTES SPECS MEMORY
REF	MOS DATABOOK	IC	TEX 1986	APPS NOTES SPECS MEMORY
REF	ANALOG SWITCH	IC	TECHNICAL	APPS SPECS
REF	ITL DATA VOL 1	IC	TEX 1985	AS/ALS DEVICES
REF	ANALOG SWITCH DB	SPECIAL	AMD 1985	BICMOS LOGIC DATA
REF	ITL DATA VOL 3	IC	TEX 1977	BIPOLAR PAL + MEM
REF	LOGIC TTL MANUA	IC	MOT XXXX	BIPOLAR/CMOS LSI
REF	1989	COMPUTER PRODUCTS	DATA BOOK	BUS INTERFACE REGISTERS
REF	OPTOELECT DATA	SPECIAL	TEX 1987	CO IR DEVICES
REF	CMOS DATABOOK	IC	MOT 1988	CMOS IC APPS NOTES
REF	N/A	ANSI X3.131-1986	HANDBOOK	CMOS LOGIC
REF	1990	PAL DEVICE	TECHNICAL DATA BOOK	CMOS PROCESSORS AND DEVICES
REF	FAST/ITL DATA	IC	HANDBOOK AND SELECTION	CODEC/FILTER COMBO LSI DATA BOOK
REF	BIPOLAR DIGITAL IC	IC	MOT 1988	COMM/MIL
REF	FILTER DATA BK	SPECIAL	HIT 1985	COMPUTER BASED DATA ACQUISITION GUIDE
REF	MICRO-P DATA BK	IC	MOT 1969	CPU SUPPORT PCBs
REF	MOS DATABOOK	IC	REFERENCE	CROSS APPS SPECS
REF	POWER MOSFET	DISCRETE	BUB 1984	CROSS DATA ID
REF	SEMICON DATABK	DISCRETE	MOT 1988	CROSS DATA ID
REF	LSI LOGIC DATA	IC	MOT 1973	CROSS NOTES SPECS
REF	MICROMIN PROD	SPECIAL	MOT 1988	CROSS OUTLINE SOURCES
REF	NSC 1989	400070	HANDBOOK	DATA ACQUISITION LINEAR DEVICE
REF	NSC 1990	400006	DATABOOK	DATA COMMUNICATIONS LANS/UARTS
REF	DATABOOK	IC	TECHNICAL	DATA SPECS INFO
REF	FAST DATABOOK	IC	HIT 1986	DATA SPECS OUTLINES
REF	LINEAR DATABOOK	IC	SIGNETICS 1978	DATA SPECS OUTLINES
REF	COMPONENT DATA	IC	SMC 1986	DATA UPDATE SEL GUIDE
REF	ADV CMOS TECH	IC	SILICOMX 1976	DATABOOK
REF	DATABOOK	IC	MOT 1986	DIGITAL
REF	DATABOOK	IC	1988	DIGITAL IC
REF	DATABOOK	IC	EDIT. 39 1987	DIGITAL IC
REF	DATABOOK	SPECIAL	1983	DIODE
REF	SEMIC DATA LIB	DISCRETE	UNITRODE 1979	DIODES + XISTORS
REF	NSC 1989	400026	DATABOOK & DESIGN GUIDE	DISCRETE SEMICONDUCTOR PRODUCT
REF	NSC 1989	400015	DATABOOK	DRAM MANAGEMENT
REF	DSP56000 DATA	SPECIAL	MOT 1988	ECL IN PS DEVICE DATA
REF	NSC 1989	400068	DATABOOK	EMBEDDED SYSTEM PROCESSOR
REF	NSC 1990	400021	DATABOOK	F100KECL LOGIC
REF	NSC 1990	400110	DATABOOK	FACT ADVANCED CMOS LOGIC
REF	1989/1990	ISDN	DATA BOOK	FAMILY DEVICE DESCRIPTIONS
REF	NSC 1990	400011	HANDBOOK	FAST ADVANCED SCHOTTKY TTL LOGIC
REF	NSC 1990	400023	DATABOOK & DESIGN GUIDE	FAST LOGIC APPLICATIONS
REF	CMOS/NMOS	IC	AGD 1986	GENERAL NOTES SPECS
REF	NSC 1989	400104	DATABOOK	GENERAL PURPOSE LINEAR DEVICES
REF	HD74H C/HCT	IC	MOT 1988	HIGH SPEED CMOS APPS NOTES SPECS
REF	INTEL 1991	PROGRAMMABLE	TEX 1984	I/F ASSOC DEVICES
REF	DATABOOK	IC	1975	I/F IC
REF	MEMORY DATABOOK	IC	MOT 1988	IC + PCB MEMORY
REF	IC MASTER UPD2	IC	1989	IC MASTER VOL 1
REF	IC MASTER VOL 1	IC	1989	IC MASTER VOL 2

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
REF	IC MASTER VOL 2	IC	1989	IC MASTER VOL 3
REF	IC MASTER VOL 3	IC	MBI 1985	IC MASTER VOL 3
REF	INTERFACE IC	IC	TEX 1984	INDEX GENERAL INFO
REF	1989/1990	MEMORY PRODUCTS	DATA BOOK	INTEGRATED SERVICES NETWORK DIGITAL
REF	INTEL 1991	MEMORY PRODUCT	DATA BOOK	INTEL PRODUCT GUIDE
REF	NSC 1990	400028	HANDBOOK	INTERFACES
REF	DATABOOK	IC	1978	LINEAR
REF	DATABOOK	DISCRETEE	1979	LINEAR
REF	DATABOOK	IC	1988	LINEAR
REF	DATABOOK	SPECIAL	EDIT. 23 1987	LINEAR
REF	NSC 1990	400030	DATABOOK	LINEAR APPLICATIONS
REF	NSC 1991	400041	HIT 1988	LOCAL AREA NETWORKS
REF	8BIT MICRO-P	IC	SILICONIX 1976	LOGIC DATABOOK
REF	NSC 1988	400039 REV.1	DATABOOK	MASS STORAGE
REF	DATABOOK	IC	EDIT. 41 DAMAGED	MASTER TYPE LOCATOR
REF	MECL DATABOOK	IC	HIT 1985	MB81461
REF	1989	BUS INTERFACE	DATA BOOK	MEMORY DEVICES CMOS EPROMS
REF	INTEL 1991	MICROPROCESSOR	DATA BOOK	MEMORY PRODUCTS
REF	INTEL 1991	PERIPHERAL	DATA BOOK	MICROCOMMUNICATIONS DATA
REF	DATABOOK	IC	1978	MICROCOMPUTER
REF	NSC 1989	400016	DATA300K	MICROCONTROLLER
REF	NSC 1989	400017	DATABOOK	MICROPROCESSOR 32000/NSC800
REF	INTEL 1991	MICROCOMM	DATA BOOK	MICROPROCESSORS VOLUME 1
REF	INTEL 1991	MICROPROCESSOR	DATA BOOK	MICROPROCESSORS VOLUME 2
REF	DATABOOK	IC	EDIT. 22 1987	MSI LSI
REF	MICROCPU DATA	IC	MOT 1982	OLDER LOGIC TYPES
REF	LINE DRIV/RCVR	IC	MOT 1976	OPAMPS VR TIMER A/D
REF	OPTOELECTRIC DATABOOK	SPECIAL	IEL 1987	OPTO-ELEC CCD IR
REF	DATABOOK	IC	1979	OPTOELECTRONICS
REF	OPTOELECTRONICS	SPECIAL	TEX N/A	PACKAGE ID/SPECS
REF	1990	EMBEDDED PROCESSORS	DATA BOOK	PAL DEVICE DATA SHEETS
REF	DATA CATALOG	IC	EDIT. 38 1987	PCB CONNECTORS
REF	IC MEMORIES	IC	DATA BOOK	PERIPHERAL COMPONENTS
REF	1988	PAL HANDBOOK	DATA BOOK	PROCESSORS COPROCESSORS VIDEO
REF	INTEL 1991	PRODUCT GUIDE	TEX 1981	PROGRAMMABLE LOGIC
REF	NSC 1989	400047	DATABOOK	PROGRAMMABLE LOGIC DEVICES
REF	CMOS DATABOOK	IC	IEL 1978	SPECIAL FUNCTIONS
REF	NSC 1989	400071	DATABOOK	SPECIAL PURPOSE LINEAR DEVICES
REF	BIPOLAR/MOS MEM	IC	MOT 1978	SPECS DATA OUTLINES
REF	HD74HC/HCT (DB)	IC	IC MASTER 1987	SPECS DATA OUTLINES
REF	MECL DATABOOK	IC	FUJ 1986	SPECS DATA OUTLINES
REF	MEMORY DATABOOK	IC	FUJ 1986	SPECS DATA OUTLINES
REF	OPTOELEC DATABK	SPECIAL	TEX 1987	SPECS DATA OUTLINES
REF	PRODUCT SUPP	IC	MOT 1974	SPECS DATA OUTLINES
REF	VOLTAGE REG DB	IC	TOS 1984	SPECS DATA OUTLINES
REF	XISTOR MANUAL	DISCRETE	H	SPECS DATA OUTLINES
REF	MICROELECTRONIC	IC	MICRON 1988	SURFACE MOUNT DEVICE
REF	1990	29K FAMILY	MBI 1986	SYSTEM DESIGN METHODOLOGY
REF	SEMICON DATABK	IC	HIT 1985	TELECOMM DEVICES
REF	NSC 1990	400082	DATABOOK	TELECOMMUNICATIONS
REF	POWER DATABOOK	DISCRETE	HIT 1985	TRANSISTORS TRIACS SCRS
REF	HIGHSPEED CMOS	IC	IC MASTER 1987	UPDATES SPECS
REF	IC MASTER UPD1	IC	1989	UPDATES SPECS
REF	HANDBOOK	33725	HIT 1988	USER GUIDE FLOPPY DISK CONT IC
REF	TELECOMM DATA	SPECIAL	TEX 1983	USERS GUIDE FOR HD64108
REF	MICRO + PERIF	IC	HIT 1988	VOL 1 DATA SPECS
REF	MIL L1ST MEMORY	SPECIAL	FUJ 1988	VOL 2 DATA SPECS
REF	MEMORY MB81461	IC	MOT 1988	VOL 2 PERIF CONTROL
REF	RECT + DIODE DB	DISCRETE	MOT 1969	XISTOR + DIODE
REF	PACKAGE OUTLINE	SPECIAL	RCA 1981	XISTOR TRIAC SCR
REF	MMICRO-P/PERIPH	IC	FUJ 1988	N/A
REF	XISTOR MANUAL	DISCRETE	SCHEMATICS	N/A
REFINERY SUPPLY CO.	8485	N/A	SERVICE	SCHEMATICS FOR CPU I/O DISPLAY COMM PCB
REI	254898	254898	SCHEMATICS	INSTRUCTION MANUAL
REI	254898	254898	TECHNICAL	OPERATOR GUIDE USERS MANUAL
REI	MICRICON 823	KD-054-005-001	X	OWNER'S MANUAL
REI	254898	254898	N/A	SCHEMATICS FOR PROCESS CONTROLLER
REI	254898	254898	OPERATOR	START UP INSTALLATION SYS. SET UP & HOW TO USE PLUS DISK ACTIVITIES FOR MODEL 84002
REMCOR	CFE-330 & 500	N/A	J	N/A
REPUBLIC ELECTRONIC	VA-260	N/A	E	N/A
RESEDEL	91883-1	N/A	H	INSTRUCTION
RESEARCH	FGE5048	N/A	H	INSTRUCTION
RESEARCH INC.	MICRICON	N/A	E	INSTALL/MAINTENANCE
RESEARCH INC.	CATALOG	N/A	E	INSTALLATION/MAINTENANCE
RESEARCH INC.	6147	N/A	H	INSTRUCTION
RESEARCH INC.	63911	N/A	E	INSTRUCTION
RESEARCH INC.	63911	N/A	H	INSTRUCTION
RESEARCH INC.	73222	N/A	H	INSTRUCTION
RESEARCH INC.	639B	N/A	X	INSTRUCTION
RESEARCH INC.	640U	N/A	X	INSTRUCTION
RESEARCH INC.	73222 CAS	N/A	E	INSTRUCTION
RESEARCH INC.	MICRICON	N/A	H	INSTRUCTION
RESEARCH INC.	MPRY THERMAC	N/A	L	INSTRUCTION
RESEARCH INC.	812-11	N/A	E	OPERATION
RESEARCH INC.	MICRICON	N/A	H	OPERATORS
RESEARCH INC.	828E	N/A	D	TEMPERATURE CONTROLLERS
RESEARCH INC.	823	N/A	E	USER
RESEARCH INC.	63911	N/A	H	USER
RESEARCH INC.	624A	N/A	H	USER
RESEARCH INC.	663D	N/A	N/A	USER
RESEARCH INC.	828D	N/A	E	USER
RESEARCH INC.	82300	N/A	E	USERS
RESEARCH INC.	828D/E	N/A	H	USERS
RESEARCH INC.	663F	N/A	Q	USERS MANUAL
RESEARCH INC.	CATALOG	N/A	E	VARIOUS MODELS OF POT'S
RESEARCH INC.	73211	N/A	T	N/A



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RESEARCH INC.	73221	N/A	E	N/A
RESEARCH INC.	639B	N/A	E	N/A
RESEARCH INC.	661B	N/A	E	N/A
RESEARCH INC.	664 F-G-H	N/A	X	N/A
RESEARCH INC.	SPY 5212	N/A	M	N/A
RESEARCH & TECH	LINURMASS	N/A	E	N/A
REVERE	CS-17	N/A	U	OPERATING
REVERE	R500	N/A	U	N/A
REVERE	T700D TR800D	N/A	U	N/A
REVOX	A77	N/A	J	N/A
REVOX	A77	N/A	X	N/A
RF POWER LABS	V180	N/A	E	N/A
RFL	2470-350/R	N/A	E	2 MANUALS
RFL	750	N/A	E	INSTRUCTION
RFL	72A	N/A	E	INSTRUCTION
RFL	300 A	N/A	E	INSTRUCTION SHEET
RFL	1890	N/A	E	INSTRUCTIONS
RFL	1900	N/A	E	INSTRUCTIONS
RFL	2000	N/A	E	INSTRUCTIONS
RFL	2000	N/A	X	INSTRUCTIONS
RFL	829	N/A	U	OPERATING (XEROX)
RFL	906	N/A	J	N/A
RHEEM	AV80	N/A	K	N/A
RHG	GT-150S41	N/A	K	N/A
RHODE & SCHWARZ	ZDD	N/A	IPB	2 MANUALS
RHODE & SCHWARZ	ZDU	N/A	TECHNICAL	RICOH LASER PRINTER PARTS CATALOG
RHODE & SCHWARZ	275	N/A	K	N/A
RHODE & SCHWARZ	BN1521	N/A	K	N/A
RHODE & SCHWARZ	BN4105	N/A	K	N/A
RHODE & SCHWARZ	SMLM	N/A	K	N/A
RHODE & SCHWARZ	USWV	N/A	K	N/A
RIA	LP4150V	G0012220A	TECHNICAL	CATALOG
RIA	LP4008	DPR-252-100B	SERVICE	ERROR CODES AND GENERAL MAINTENANCE
RIA	RO-5031E	RO-5031E	X	SERVICE
RIA	LP4008	DPR-253-105	OPERATOR/INSTALLATION	SERVICE SCHEMATICS IPB
RIA	PC LASER 6000	LP60000	N/A	SPECIFICATIONS/REFERENCE
RICOH	LP1060	N/A	J	N/A
RM YOUNG	12101	N/A	E	2 MANUALS
RMS	336	N/A	E	OPERATING
RMS	4000	N/A	W	OPERATING
RMS	1312	N/A	E	SPECIFICATIONS
RMS	4000	N/A	X	N/A
RMS ENG	9103	N/A	X	N/A
RO ASSOCIATES	506	N/A	U	VIBRA SWITCH
RO ASSOCIATES	210 24 212 213	N/A	A	N/A
ROBERT SHAW	365	N/A	X	SCHEMATICS
ROBERTS	80	N/A	B	N/A
ROBICON	1622	N/A	H	N/A
ROCHESTER	DPG-6006	N/A	E	MAINTENANCE/REPAIR
ROCHESTER INSTRUMENT	SC-1354	N/A	SERVICE	HARDWARE AND SOFTWARE INSTRUCTION MANUALS WITH SCHEMATICS
ROCHESTER INSTRUMENT	DPG-600	N/A	N/A	INSTRUCTION
ROCHESTER INSTRUMENT	CL-6000/6100	N/A	E	N/A
ROCHESTER INSTRUMENT SYSTEMS	SC-8300 SERIES	N/A	K	2 MANUALS
ROCHESTER INSTRUMENT SYSTEMS	ISM-1	N/A	K	TRANSMITTER TC/RTD/FREQ/STRAIN GAGE/SLIDEWIRE
ROCKLAND	1022F	N/A	K	2 MANUALS
ROCKLAND	5840A	N/A	N/A	MAINTENANCE
ROCKLAND	5840A	N/A	L	OPERATING & SERVICE MANUAL
ROCKLAND	5840A	N/A	OP	USER'S GUIDE
ROCKLAND	1500	N/A	K	N/A
ROCKLAND	452 & 852	N/A	K	N/A
ROCKLAND	5840A	N/A	N/A	N/A
ROCKLAND SYS	SERIES 816	N/A	Q	N/A
ROCKWELL	10000	N/A	K	SCHEMATICS INCLUDED
ROCKWELL	PPS-8MP	N/A	W	N/A
ROLLIN COMPANY	61	N/A	OPERATOR	2 MANUALS
RONAN & KUNZL INC.	50PS1	N/A	DIAGNOSTIC	LAP TOP COMPUTER
ROS	2000	MOD 2000	B	HARDWARE REFERENCE
ROS	100	100	TECHNICAL	USE DISK AXX-2042
ROS	2000	26-5404	B	N/A
ROSEMOUNT	840F	N/A	E	OPERATION
ROSEMOUNT	1331	N/A	B	N/A
ROSEMOUNT	1332	N/A	B	N/A
ROSEMOUNT	3311	N/A	B	N/A
ROSEMOUNT	1221F2	N/A	B	N/A
ROSEMOUNT	1241A	N/A	B	N/A
ROSEMOUNT	1241B	N/A	B	N/A
ROSEMOUNT	1241C	N/A	B	N/A
ROSEMOUNT	1241M	N/A	B	N/A
ROSEMOUNT	840E	N/A	N/A	N/A
ROSS RECORDERS	202	N/A	TECH DATA SHEET	OPERATING AND SERVICE
ROTEK	300	N/A	W	HUMIDITY-TEMP TRANSMITTER
ROTRONIC INSTRUMENT CORP.	HT SERIES	N/A	E	N/A
ROYCO	124 & 125	N/A	E	OPERATING (XEROX)
RUBICON	1622	N/A	E	OPERATING (XEROX)
RUBICON	2730	N/A	E	OPERATING (XEROX)
RUBICON	2733	N/A	OPERATOR	OPERATING (XEROX)
RUBICON	1620G	N/A	E	OPERATING (XEROX)
RUBICON	2745	N/A	TECHNICAL	N/A
RUS	RS903	IU 153	B	N/A
RUS	RS903/904	RS903/904	B	N/A
RUSKA	2413	N/A	B	N/A
RUSKA	2416	N/A	B	N/A
RUSKA	2416.1	N/A	B	N/A
RUSKA	2416.5	N/A	B	N/A
RUSKA	2465	N/A	B	N/A
RUSKA	2465	N/A	B	N/A
RUSKA	2470	N/A	B	N/A

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RUSKA	3901.5	N/A	B	N/A
RUSKA	5100	N/A	B	N/A
RUSKA	2413-705	N/A	B	N/A
RUSKA	2416-704	N/A	B	N/A
RUSKA	6000-150-30	N/A	B	N/A
RUSKA	6000-151-5	N/A	B	N/A
RUSKA	6000-151-56200	N/A	B	N/A
RUSKA	6000-801-00	N/A	B	N/A
RUSKA	6000-801-100	N/A	B	N/A
RUSKA	6000-801-1000	N/A	B	N/A
RUSKA	6000-801-50	N/A	E	N/A
RUSKA	6000-804-100	N/A	E	N/A
RUSKA	6001-705-00	N/A	E	N/A
RUSKA	6005-701-00	N/A	B	N/A
RUSKA	621X	N/A	K	N/A
RUSKA	62-203	N/A	W	N/A
RUSTRAK	NONE	N/A	K	SCHEMATICS INCLUDED/4 MANUALS
RUTHERFORD	A2	N/A	K	N/A
RUTHERFORD	B14/B14A	N/A	K	N/A
RUTHERFORD	B15 R	N/A	X	N/A
RUTHERFORD	B16	N/A	K	N/A
RUTHERFORD	B16	N/A	K	N/A
RUTHERFORD	B5A	N/A	OPERATOR	N/A
RUTHERFORD	B7D	N/A	SCHEMATICS	N/A
RVI	VA3450	PROPRIETARY	X	3 MANUALS
RVI	VA/VC34R	N/A	X	MODEM BELL 212A
S.K.L.	311	N/A	N/A	2 MANUALS
S.K.L.	300 & 302	N/A	X	N/A
S.K.L.	308A	N/A	X	N/A
SAFE	SPS-1000	N/A	SERVICE	SERVICE MANUAL
SAFE POWER	SPS500	N/A	K	STANDBY POWER SUPPLY
SAFT	SPS1000	270-000016	U	N/A
SAGE	602	N/A	OPERATOR	N/A
SAMS PHOTOFAC	SERIES TR-13	N/A	SCHEMATICS	N/A
SAN	DAPS100	INTROL300	K	1 MANUAL
SAN	DAPS100	HK68V20	K	N/A
SAN	DAPS100	DAPS100	OPERATOR	N/A
SAN	DAPS100	FPC500	OPERATOR	N/A
SAN	DAPS100	MKT-015-02	OPERATOR	N/A
SAN	DAPS100	4200092-00	SERVICE	N/A
SAN	DAPS100	MKT-016-01	TECHNICAL	N/A
SAN	DAPS100	MVME214/02	TECHNICAL	N/A
SAN	DAPS100	V2FA	TECHNICAL	N/A
SANBORN	150-2900	N/A	U/K	2 MANUALS
SANBORN	350-1400	N/A	K	2 MANUALS
SANBORN	850-1500 A	N/A	K	2 MANUALS
SANBORN	126 B/64-300 A B	N/A	K	2 MANUALS/BAD CONDITION
SANBORN	150-200 A B	N/A	K	3 MANUALS
SANBORN	154-5460	N/A	U/K	3 MANUALS
SANBORN	156-100BN BW	N/A	K	3 MANUALS
SANBORN	150-2300	N/A	N/A	3 MANUALS AND VARIOUS NOTES
SANBORN	958-A-100	N/A	U	MISCELLANEOUS
SANBORN	150-1800	N/A	K	NO MANUAL
SANBORN	NONE	N/A	Q	SABRE III
SANBORN	60T1300	N/A	K	SAME FOLDER/SAME MANUAL
SANBORN	958-5480 A	N/A	K	SCHEMATICS
SANBORN	299	N/A	K	N/A
SANBORN	302	N/A	X	N/A
SANBORN	670	N/A	K	N/A
SANBORN	150-1000	N/A	K	N/A
SANBORN	150-1400	N/A	X	N/A
SANBORN	150-1500 A	N/A	K	N/A
SANBORN	150-1800	N/A	K	N/A
SANBORN	150-200B/400	N/A	K	N/A
SANBORN	150-2900	N/A	U/K	N/A
SANBORN	152-100B	N/A	U/K	N/A
SANBORN	350-1300 -A	N/A	K	N/A
SANBORN	350-1400	N/A	X	N/A
SANBORN	350-500 A AP AS	N/A	K	N/A
SANBORN	462-145D	N/A	U	N/A
SANBORN	60-300 400 1000	N/A	K	N/A
SANBORN	67-300 B	N/A	K	N/A
SANBORN	850-1000&A	N/A	X	N/A
SANBORN	850-1300 A B	N/A	K	N/A
SANBORN	850-1300A	N/A	K	N/A
SANBORN	850-1900	N/A	K	N/A
SANBORN	860-4200	N/A	K	N/A
SANBORN	956-5480 A	N/A	K	N/A
SANGAMO	3600	N/A	K	N/A
SANGAMO	T113ATS	N/A	U	N/A
SANYO	TRC-1100	N/A	N/A	OPERATION SERVICE MANUAL
SARGENT WELCH	8B10	N/A	N/A	REPAIR AND PARTS
SARTORIUS	3807MP8/3808MP8	N/A	CATALOG	A4M-60130 CRT
SARTORIUS	2004MP6E	N/A	SERVICE	SERVICE AND PARTS
SAU	PMC6013	WM-5524	N/A	SYM
SCAN CAD	128A	N/A	X	N/A
SCANIVALVE	CTLR2/5XS4	N/A	B	N/A
SCANIVALVE	CTLR2/5XS4	N/A	X	N/A
SCANIVALVE	CTLR2/S2-56	N/A	MAINTENANCE MANUAL	N/A
SCANNIVALVE	HYSKAN-2000	N/A	USERS GUIDE VOL 3	BLOCK DATA FLOW THEORY COMPONENT LOC
SCG	IRIS 4D/60T GT	007-1201-020	TECHNICAL	4D/GTX MAINTENANCE COURSE
SCG	IRIS 4D/60T GT	007-0602-030B	OPERATOR	4SIGHT USERS GUIDE
SCG	MP CPU/VGX	0001 RD E	TECHNICAL	BASIC MAINTENANCE COURSE VOLUME 1
SCG	IRIS-4D	0003 R3 A	TECHNICAL	BASIC MAINTENANCE COURSE VOLUME 2
SCG	IRIS 4D/60T GT	007-0606-030A	TECHNICAL	C PROGRAMMING KIT /DBX REF MAN/COMPILER
SCG	IRIS 4D/60T GT	007-2002-010	OPERATOR	COMMUNICATIONS KIT/MALL/TCD-IP/USERS GUIDE
SCG	IRIS 4D/60T GT	007-2001-020	OPERATOR	GRAPHICS LIBRARY REFERENCE MANUAL

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SCG	IRIS 4D/60T GT	007-0603-010	TECHNICAL	GRAPHICS LIBRARY USERS GUIDE
SCG	IRIS 3130/3030	007-0101-030B	USERS GUIDE VOL 2	GRAPHICS PROGRAMMING
SCG	IRIS 3130/3030	007-1101-040A	PROGRAM UNIX REF	GRAPHICS REFERENCE
SCG	IRIS 4D/60T GT	007-2003-010	PROGRAMMERS REF VOL 1	IRIS 4D OWNERS GUIDE/RELEASE NOTES TUTOR
SCG	IRIS 4D/60T GT	007-0605-010	PROGRAMMERS VOL I	IRIS 4D OWNERS GUIDE/SCSI INSTALLATION
SCG	IRIS 4D/60T GT	007-0606-030B	INSTALLATION	IRIS 4D SERIES USERS GUIDE
SCG	IRIS 4D/60T GT	077-5003-003	REFERENCE	IRIS 4D SYSTEM ADMINISTRATORS REF. MANUAL
SCG	IRIS 4D/60T GT	077-5007-004	PROGRAM	IRIS 4D USERS REFERENCE MANUAL VOL 1
SCG	IRIS 4D/60T GT	007-1203-020	OPERATOR	IRIS 4D USERS REFERENCE MANUAL VOL 2
SCG	IRIS 4D/60T GT	007-5320-030	PROGRAMMERS VOL II	IRIS PROGRAMMERS GUIDE VOL 1 UPDATES
SCG	IRIS 4D/60T GT	007-0601-010A	TECHNICAL	IRIS PROGRAMMERS GUIDE VOL 2
SCG	IRIS 4D/60T GT	007-3323-010	PROGRAMMERS VOL 2	IRIS PROGRAMMERS REF MANUAL VOL 1
SCG	IRIS 4D/60T GT	007-0602-030A	PROGRAMMERS GUIDE	IRIS PROGRAMMERS REF MANUAL VOL 2
SCG	IRIS 3130/3030	N/A	REFERENCE	IRIS PROGRAMMERS REF MANUAL VOL 3
SCG	IRIS 4D/60T GT	007-0601-010B	OPERATOR	IRIS-4D SYSTEM ADMINISTRATORS GUIDE
SCG	IRIS 4DGT	0005 R5 A	TECHNICAL	MIPS CPU BASED MAINTENANCE COURSE
SCG	MP CPU/VGX	001 R2 D	TECHNICAL	PERSONAL IRIS MAINTENANCE COURSE
SCG	IRIS 4D/60T GT	007-0602-030C	OPERATOR	POSTSCRIPT LANGUAGE REFERENCE MANUAL
SCG	IRIS 4D/60T GT	007-0604-030	INSTALLATION	POSTSCRIPT TUTORIAL AND COOKBOOK
SCG	IRIS 3130/3030	N/A	PROGRAM SECTION 2 M-Z	UNIX PROGRAMMERS MANUAL VOL 1A PART 1
SCG	IRIS 3130/3030	007-0101-030A	USERS GUIDE VOL 1	UNIX PROGRAMMERS MANUAL VOL 1A PART 2
SCG	IRIS 3130/3030	N/A	PROGRAM SECTION 5 6 7 8	UNIX PROGRAMMERS MANUAL VOL 1B PART 1
SCG	IRIS 3130/3030	007-0102-030A	USERS GUIDE VOL 5	UNIX PROGRAMMERS MANUAL VOL 1B PART 2
SCG	IRIS 3130/3030	007-0104-020	USERS GUIDE VOL 4	UNIX PROGRAMMERS MANUAL VOL 2A
SCG	IRIS 3130/3030	007-1101-040B	PROGRAM UNIX REF	UNIX PROGRAMMERS MANUAL VOL 2B
SCG	PERSONAL IRIS	0002 R5 A	X	UPDATED INFORMATION
SCG	IRIS 3030/2400T	IRIS 3030/2400	PROGRAM SECTION 1 A-L	N/A
SCG	IRIS 3130/3030	007-0103-010	PROGRAM SECTION 2 3 4	N/A
SCG	IRIS 3130/3030	007-0102-030B	PROGRAMMERS REF VOL 3	N/A
SCG	POWER SERIES	0001 R1 A	R	N/A
SCHAEVITZ	CATALOG	N/A	R	ACCELEROMETERS
SCHAEVITZ	CATALOG	N/A	R	INCLINOMETER
SCHAEVITZ	LSVP-14.5	N/A	X	INCLINOMETER
SCHAEVITZ	S-15-A	N/A	N/A	MAINTENANCE
SCHAEVITZ	ATA-101	N/A	R	VARIOUS MODELS OF ACCELS
SCHAEVITZ	LSVP-90	N/A	K	N/A
SCHLUMBERGER	1250	N/A	N/A	MAINTENANCE
SCHLUMBERGER	1251	N/A	X	MAINTENANCE
SCHLUMBERGER	1254	N/A	B	N/A
SCHMELING ELEC.	140	N/A	B	N/A
SCHWIEN	90	N/A	SCHEMATICS	BLUE LINE DRAWINGS IN TUBE
SCHWIEN	3500	N/A	SCHEMATICS	N/A
SCI	BCU-11	BCU11	X	BLUE LINE DRAWINGS IN TUBE
SCI	BCU-11B/PB	BCU11	X	N/A
SCIENCE ACCESS CORP.	GP-7	N/A	X	N/A
SCIENCETECH INC.	365	N/A	E	OPERATOR WITH SCHEMATIC
SCIENCETECH INC.	36-0201	N/A	O	N/A
SCIENTECH	SERIES 37	N/A	J	OPERATING
SCIENTECH	36-2002	N/A	N/A	OPERATING (XEROX)
SCIENTECH	3701	N/A	N/A	OPERATING/CALIBRATION
SCIENTECH	SERIES 36/38	N/A	N/A	OPERATING/CALIBRATION
SCIENTIFIC ATLANTA	9140	N/A	N/A	N/A
SCIENTIFIC ATLANTA	SD380	N/A	N/A	CHECKOUT SHEET
SCIENTIFIC ATLANTA	1600	N/A	X	MAINTENANCE
SCIENTIFIC ATLANTA	SD390	N/A	E	SERVICE/SCHEMATICS
SCIENTIFIC ATLANTA	2155-1	N/A	X	N/A
SCIENTIFIC ATLANTA/SPECTRAL DYNAMICS	SD-375	N/A	E	OPERATING (XEROX)
SCIENTIFIC COLUMBUS	1369C	N/A	X	OPERATING (XEROX)
SCIENTIFIC COLUMBUS	6268	N/A	X	N/A
SCIENTIFIC SERVICES	401	N/A	O	N/A
SCIENTIFIC SPECIFL.	PS-22	N/A	X	OPERATE/PROGRAM LOCK-IN AMPLIFIER
SCITEC INSTRUMENTS LTD	500MC	N/A	CATALOG	N/A
SCM	TPI	3-0658	X	OPERATORS
SCM	IPTP-IPTS	3-0651-1	SERVICE	PRINTER
SCM	TP-1	SCM-TP-1	IPB	PRINTER
SCM	566	N/A	OPERATOR	N/A
SCM	TPI	3-0650-1	E	N/A
SCOPE ELECTRONICS	DVM-638	N/A	L	N/A
SCOTT	8021A	N/A	SERVICE	1 MANUAL FOR EACH TYPE
SCOTT	811 A/B	N/A	Q	SCHEMATICS
SCOTT	5851	N/A	X	N/A
SCOTT	5876	N/A	X	N/A
SCOTT	410A	N/A	L	N/A
SCOTT	5850C	N/A	L	N/A
SEA	195	195.2135345	IPB	N/A
SEIKOSHA	GP700A	N/A	SCHEMATIC	FLUKE DATA LOGGER
SEK	GR1104	GR1104-MMP01A4	TECHNICAL	CIRCUIT CARDS
SEK	GR-1104	N/A	SCHEMATICS	COLOR GRAPHICS TERMINAL
SEK	53XX	C2-MSC01	SERVICE	HARD COPY UNIT
SEK	102/102W/104	1975.3.0300	SERVICE	LONGBOOK
SEK	CH-5300	C2-MMP01	TECHNICAL	MAINTENANCE PROCEDURES
SEK	CH-5500	C3-MTS01	SERVICE	PCB ASSYS-DRB2 CH 1 10/MB CH 1 11/MB CH 21X/MB
SEK	CH-5500	C3-MMP01	SCHEMATICS	PRINT ENGINE TECHNICAL REFERENCE
SEK	CH-5201	CH5201-MMP01 54	TECHNICAL	N/A
SEK	CH5300	C2-MSC01	SERVICE	N/A
SEL	810A	SEL-810A	SERVICE	CARD TESTER
SEL	9066	95092A	SERVICE	DIGITAL RECORD SYS
SEL	DAS-643	2130VOL2	X	DIGITAL RECORD SYS
SEL	DAS-643	2130VOL1	X	N/A
SELETRONICS LTD	P.S.220EC	N/A	X	NO TAB ON FOLDER
SENCOR	LC75	N/A	X	3 MANUALS W/SCHEMATICS
SENCOR	VC63	N/A	E	OPERATION AND APPLCATIONS WITH SCHEMATICS.
SENCOR	CG 169	N/A	X	N/A
SENCOR	FS134	N/A	X	N/A
SENCOR	LC53	N/A	X	N/A
SENCOR	SC61	N/A	X	N/A
SENCOR	TF26	N/A	K	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SENCOR	TR 139B	N/A	K	N/A
SENCOR	VA48	N/A	K	N/A
SENCOR	VA62	N/A	N/A	N/A
SENCORE	LC75	N/A	X K	CALIBRATION (XEROX)
SENCORE	LC53	N/A	E	CAPACITANCE/INDUCTIVE ANALYZER
SENCORE	SM152	N/A	X	FET & TRANSISTOR TESTER
SENCORE	LC102	N/A	X	OPERATION APPLICATION MAINTENANCE
SENCORE	CR7000 BEAMRITE	N/A	N/A	OPERATORS
SENCORE	FE20	N/A	E	N/A
SENCORE	LC75	N/A	SERVICE	N/A
SENCORE	TF151	N/A	X	N/A
SENCORE	VA 62	N/A	B	N/A
SENSITIVE RESEARCH	ESH-ESD	N/A	E	CATALOG
SENSOTEC	TJE	N/A	X	INSTRUCTION
SENTEL	2100	N/A	W	N/A
SERDEX	311	N/A	X	N/A
SERVO CONTROL CO.	1018A	N/A	X	N/A
SERVO CORP.	3400	N/A	R	N/A
SERVO CORP.	1100 A B C D F	N/A	X	N/A
SERVO TECH	ST5100	N/A	B	SPEC SHEET
SETRA	141	N/A	B	CATALOG
SETRA	204	N/A	B	CATALOG
SETRA	228	N/A	B	CATALOG
SETRA	235	N/A	B	CATALOG
SETRA	237	N/A	B	CATALOG
SETRA	270	N/A	B	CATALOG
SETRA	271	N/A	B	CATALOG
SETRA	361	N/A	B	CATALOG
SETRA	205-2	N/A	B	CATALOG
SETRA	240TC	N/A	B	CATALOG
SETRA	C-239	N/A	B	CATALOG
SETRA	C-261-1	N/A	SERVICE	CATALOG
SETRA	C-280	N/A	INSTALLATION	N/A
SGF	SA-H123	SA-H123-001	E	COLOR SCANNER
SGF	RQD11	MA400740	SERVICE	N/A
SHA	JX-450	00ZJX450SME-R	E	OPERATING
SHALLCROSS	6800	N/A	E	2 MANUALS
SHALLCROSS	6800	N/A	E	OPERATING AND MAINTENANCE
SHALLCROSS	6800	N/A	E	OPERATING AND MAINTENANCE
SHALLCROSS	6800	N/A	X	OPERATING AND MAINTENANCE
SHALLCROSS	6337/6338	N/A	E	OPERATING AND MAINTENANCE
SHALLCROSS	670A	N/A	X	OPERATING AND MAINTENANCE
SHALLCROSS	6800	N/A	X	N/A
SHALLCROSS	835 36 37 48 49	N/A	N/A	N/A
SHAN INSTRUMENT	SMR1-15114	N/A	N/A	1 OPERATORS 1 APPLICATIONS
SHARP	EL-5500III	N/A	K	SERVICE MANUAL
SHARP	XA-200 & XA-205	N/A	K	N/A
SHARP	XM-1300	N/A	N/A	N/A
SHIBA SOKU	925D/1	N/A	X	OPERATING INSTRUCTIONS
SHIBASOKU	925D/1	N/A	N/A	N/A
SHIGMA	CF910	N/A	N/A	MINI-FLOPPY DRIVE
SHUGART ASSOC.	400	N/A	X	DISKETTE STORAGE DRIVE
SHUGART ASSOC.	900/901	N/A	X	N/A
SHURE	450 & 6000	N/A	X	N/A
SIE	R-2	N/A	X	N/A
SIERRA	215A-470	N/A	N/A	2 MANUALS
SIERRA	219B	N/A	N/A	SERVICE MANUAL
SIERRA	125A	N/A	X	N/A
SIGMA ELECTRONICS	CSG-160	N/A	N/A	SERVICE MANUAL
SIGMA ELECTRONICS	CSG-460	N/A	X	SERVICE MANUAL
SIGMA ELECTRONICS	PDA-100A	N/A	L	N/A
SIGNAL RESEARCH	210	N/A	L	N/A
SIGNET SCIENTIFIC	MK 514	N/A	J	N/A
SIGNET SCIENTIFIC	MK 515	N/A	J	N/A
SIMMONS	MARK III	N/A	E	OPERATING
SIMMONS	MARK II	N/A	E	N/A
SIMMONS PRECISION	PSD40-1	N/A	X	OPERATING
SIMPSON	269	N/A	E	3 MANUALS
SIMPSON	260	N/A	E	NO TAG
SIMPSON	2600	N/A	X	OPERATING
SIMPSON	2852/2853	N/A	E	OPERATING
SIMPSON	461-2	N/A	E	OPERATING
SIMPSON	461-2	N/A	E	OPERATING
SIMPSON	260	N/A	X	OPERATION AND SERVICE MANUAL
SIMPSON	462	N/A	E	OPERATOR
SIMPSON	269-II	N/A	E	OPERATOR
SIMPSON	248	N/A	N/A	N/A
SINCLAIR	DM2	N/A	E	INSTRUCTION
SINGER	CATALOG	N/A	X	2 MANUALS
SINGER	SB-15A	N/A	X	2 MANUALS
SINGER	SG-1001	N/A	X	2 MANUALS
SINGER	3600	N/A	X	ACCELEROMETERS
SINGER	1000	N/A	X	INSTRUCTION
SINGER	1010A/1011	N/A	X	N/A
SINGER	325A	N/A	R	N/A
SINGER	FM-9ECG	N/A	X	N/A
SINGER	SG-1000	N/A	X	N/A
SINGER	SPA-3 3/25	N/A	X	N/A
SINGER	SPA-4A	N/A	X	N/A
SINGER	TA-2 RTA5	N/A	X	N/A
SINGER	TM1-1B	N/A	X	N/A
SINGER	UR-3	N/A	X	N/A
SIPMENS	PT88/PT89	N/A	X	N/A
SIPPICAN	245	N/A	SERVICE	N/A
SLAUGHTER CO.	165	N/A	SERVICE	N/A
SMU	CM4531	CM4531	SERVICE	COLOR MONITOR SERVICE SUPPLEMENT
SMU	CQ4531/35/51/55	SM-CQ4531	TECHNICAL SCHEMATICS	DEGAUSSING THE MONITOR

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SMU	CD1452	CD-1453M1	SERVICE	TECHNICAL SCHEMATICS-IPB
SMU	CD-1464W	CD-1464W	SERVICE	TECHNICAL SCHEMATICS-IPB
SMU	CQ4531-51	08147-401-011	SERVICE	VGA COLOR MONITOR SERVICE
SNM	SUN3 4 SPARC	800-4247-01	X	1 INSTRUCTION 1 SERVICE SCHEMATICS
SNM	3175	813-1020-07	OPERATOR	1/4 INCH TAPE DRIVE TUTORIAL
SNM	3/*** AND 4/***	800-1552-10	INSTALLATION	3/100 AND 3/200 SERIES SLOT ASSIGNMENTS
SNM	3/100/200	813-2004-12	INSTALLATION	3/50 HARDWARE NOTES
SNM	4/60 4/65	800-4826-10	INSTALLATION	4.1 RELEASE CHANGES
SNM	ALL	800-4247-05	TECHNICAL VOLUME I	ARTECON DESKTOP STORAGE UNIT
SNM	3/*** AND 4/***	800-1758-10	PROGRAM	ASSEMBLY LANGUAGE REFERENCE
SNM	SUN WORKSTATION	800-1732-15	PROGRAM	C PROGRAMMERS GUIDE
SNM	SUN 3/*** +4/***	800-1775-10	SERVICE	CARDPAGE SLOT ASSIGNMENTS
SNM	SUN 3 AND 4	800-1736-10	SERVICE	DEBUGGING TOOLS
SNM	3/*** AND 4/***	800-1751-10-A1	PROGRAM	EDITING TEXT FILES
SNM	80-5385-11	27485	SERVICE	FIELD ENGINEER HANDBOOK VOL 1 PART 1
SNM	ALL	800-4006-07	SERVICE	FIELD ENGINEER HANDBOOK VOL 1 PART 2
SNM	ALL	800-4006-07	SERVICE	FIELD ENGINEER HANDBOOK VOL 2
SNM	FIELD ENGR.HDBK.	800-4247-04	INSTALLATION	FLOATING POINT ACCELERATOR USERS MANUAL
SNM	3/*** AND 4/***	800-1787-10	INSTALLATION	FLOATING POINT PROGRAMMERS GUIDE
SNM	SUN 2 3 4 SPARC	800-4006-03	SERVICE	FOR EXEC. DIAGNOSTICS ONLY
SNM	19M	DM60-19AC-09-A	TECHNICAL	FOR MONITERM 19M
SNM	3/*** AND 4/***	800-1753-10	OPERATOR	FORMATTING DOCUMENTS
SNM	3/*** AND 4/***	800-1755-10	OPERATOR	GLOBAL INDEX
SNM	FUJITSU M2444	813-1002-06	INSTALLATION	GSA/AADP PRICE LIST FY89
SNM	SUN-3	813-2007-01	SERVICE	HARDWARE INSTALLATION 3/260/280
SNM	4/60 4/65	800-4851-10	OPERATOR	INSTALLATION IPB OPERATOR
SNM	4160 4165	800-3802-10	SERVICE	INSTALLATION OPERATOR
SNM	LW1	800-3449-10	SERVICE	INSTALLATION OPERATOR MANUAL
SNM	SUN WORKSTATION	800-1783-10	PROGRAM	INSTALLING SUN O.S
SNM	FIELD ENGR.HDBK.	800-4006-06	OPERATOR	IPB/DIAGNOSTICS/TECHNICAL MANUAL
SNM	SUN 4.0 OS	800-1733-10	OPERATOR	NETWORK PROGRAMMING DEBUGGING TOOLS
SNM	3861	800-1315-02	OPERATOR	NOTES ON SUNOS
SNM	3/*** AND 4/***	800-1784-10	OPERATOR	PIXRECT REFERENCE MANUAL
SNM	GSA PRICE LIST	G500K88AGS5897	INSTALLATION	PROGRAM
SNM	SUN WORKSTATION	800-1738-10	PROGRAM	PROGRAMMING UTILITIES AND LIBRARIES
SNM	SUN 3 4 4C	800-4006-07	PROGRAM	PROM USERS MANUAL
SNM	LW1	800/4943/10	INSTALLATION	READ THIS FIRST
SNM	SUN WORKSTATION	800-1780-10	INSTALLATION	SCSI CONFIGURATION PROCEDURES
SNM	SUN WORKSTATION	800-1779-10	DIAGNOSTICS	SECURITY FEATURES
SNM	MS660	800/4476/11	DIAGNOSTICS	SERVICE DIAGNOSTIC IPB FE-HNDBK-1
SNM	SUN-3/260/280	800-1528-05	SERVICE	SERVICE DIAGNOSTIC IPB FE-HNDBK-1
SNM	SUN3 4 SPARC	800-4006-03	X	SERVICE DIAGNOSTIC IPB FE-HNDBK-UPDATES
SNM	19*	800-1231-01	TECHNICAL	SUN 19" MONO MONITOR MADE BY ELSTON
SNM	3/*** AND 4/***	800-1751-10-A2	PROGRAM	SUN CGI REFERENCE
SNM	SUN 386I	N/A	OPERATOR	SUN OS 4.0 INSTALL
SNM	3/*** AND 4/***	800-1756-10	OPERATOR	SUN OS REFERENCE
SNM	3/*** AND 4/***	800-1785-10	OPERATOR	SUN OS REFERENCE
SNM	3/*** AND 4/***	800-1751-10-A3	PROGRAM	SUN OS REFERENCE
SNM	18323	800-1355-05	OPERATOR	SUN/3 MASS STORAGE SUBSYSTEM THEORY OPER
SNM	3/*** AND 4/***	800-1786-10	PROGRAM	SUNCORE REFERENCE
SNM	3/*** AND 4/***	800-1773-10	PROGRAM	SUNVIEW 1 SYSTEM PROGRAMMER'S GUIDE
SNM	SUN WORKSTATION	800-1774-15	INSTALLATION	SUNVIEW 2 PROGRAMMER'S GUIDE
SNM	386I	814-3011-03	INSTALLATION	SYSTEM AND NETWORK ADM IN
SNM	SUN 4.0 OS	800-1745-10	PROGRAM	SYSTEM AND NETWORK ADMINISTRATION
SNM	SUN WORKSTATION	800-1735-10	PROGRAM	SYSTEM DIAG MANUAL
SNM	3 / SERIES	INTM REV. E	OPERATOR	SYSTEM SERVICES OVERVIEW
SNM	FPA	800-1378-05	CATALOG	TAPE DRIVE HARDWARE INSTALLTION
SNM	DSU1-300B	EXB-8200-DOC	TECHNICAL VOLUME II	TECHNICAL/SERVICE MANUAL
SNM	19M	365-1000	INSTALLATION	TRAINING MANUAL
SNM	3 / SERIES	CMTM REV. H	TECHNICAL	TRAINING MANUAL
SNM	4/60 4/65	800-4784-10	PROGRAM	USER'S GUIDE
SNM	3/*** AND 4/***	800-1754-10	CATALOG	USING NPROFF AND TROFF
SNM	SUN 3 4 4C	800-4247-05	PROGRAM	VOLUME I
SNM	SUN 2/3 SERIES	800-1311-13	SERVICE	VOLUME II
SNM	SUN WORKSTATION	800-1771-10	INSTALLATION	WRITING DEVICE DRIVERS
SNM	SUN 3/1**	813-2004-14	INSTALLATION	N/A
SOALA	400VA-750VA	N/A	X	4 MANUALS
SOALA	ASSORTED	N/A	OPERATING	ELECTRONIC MEASURING INSTRUMENTS
SOLARTRON	CATALOG	N/A	OPER/SERV	PLUG-IN FOR MPM RH/TEMP/AIRSPD
SOLOMAT	MPM 4000	N/A	N/A	MULTI-FUNC INSTRUMENT HUM/TEMP/AIRSPD/PRES/RPM
SOLOMAT	MPM 2000	N/A	OPER/SERV	MULTI-FUNC INSTRUMENT HUM/TEMP/AIRSPD/PRES/RPM/DATALOGGER
SOLOMAT	2016 MODUMETER	N/A	OPER/SERV (COPY)	MULTI-FUNC INSTRUMENT HUM/TEMP/WINDSPD/RPM
SOLOMAT	MPM 500E	N/A	N/A	VOLUME I & II
SOLTEC	DS-8000	N/A	SERVICE	CD-ROM DRIVE UNIT OPERATING INSTRUCTION
SOLTEC	8K40	N/A	OPERATOR	SERVICE MANUAL
SON	GDM-1601/1602	9-963-767-00	SERVICE	OPERATING INSTRUCTIONS
SON	VP-3000	VP-3000	X	OPERATOR'S MANUAL FOR COLOR VIDEO PRINTER
SON	CDU6250	3-752-857-21	SERVICE	SCHEMATICS - TECHNICAL
SON	CPD-1302	9-963-637-01	OPERATOR	SCHEMATICS PARTS
SON	PMV-1942Q/1944Q	PVM-1942Q/1944Q	OPERATOR	SERVICE FOR VP-3000 COLOR VIDEO PRINTER
SON	GDM-2036S	GDM-2036S	TECHNICAL	SERVICE MANUAL
SON	GDM1950	996376800	SERVICE	TRINTRON COLOR TV
SON	VP-3000	VP-3000	X	N/A
SONEX INC.	S-27-01	N/A	N/A	SERVICE MANUAL
SONEX INC.	S-23-01-02	N/A	X	N/A
SONEX INC.	S-26	N/A	N/A	N/A
SONEX INC.	34	N/A	X	N/A
SONOREX	16/16 INTERLOCK	N/A	U	SERVICE MANUAL VIDEOREORDER ACCESSORIES
SONY	SEG-1	N/A	X	INCLUDES 2000 AP APM K
SONY	SL-2500	N/A	U	INCLUDES AC-340
SONY	TCK-77R	N/A	U	INCLUDES TCM-600B
SONY	VCL-0877/167	N/A	U	OPERATIONAL & SERVICE
SONY	TC-K96R	N/A	U	SERVICE AND OPERATION
SONY	CMA-7 -7CE	N/A	K	SERVICE MANUAL
SONY	DA-500	N/A	K	SERVICE MANUAL
SONY	PVM-1220	N/A	K	SERVICE MANUAL
SONY	PVM-1900	N/A	N/A	SERVICE MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SONY	PVM-1942Q/1944Q	N/A	K	SERVICE MANUAL
SONY	SLO320	N/A	U	SERVICE MANUAL
SONY	VCK-2400	N/A	N/A	SERVICE MANUAL
SONY	AC2000 CMA-1 1B	N/A	U	N/A
SONY	AV-3600	N/A	K	N/A
SONY	AV-3650	N/A	U	N/A
SONY	AVC-3200	N/A	U	N/A
SONY	BM-11	N/A	U	N/A
SONY	BM-20	N/A	K	N/A
SONY	BM-25 -25A	N/A	U	N/A
SONY	CCD-G5	N/A	K	N/A
SONY	CMA-D1	N/A	K	N/A
SONY	CMA-D1	N/A	U	N/A
SONY	CV-2200A	N/A	K	N/A
SONY	CVM-1270	N/A	X	N/A
SONY	CVM-1720	N/A	K	N/A
SONY	CVM-180VA/202VA	N/A	K	N/A
SONY	CVM-2150	N/A	K	N/A
SONY	DXC-101/102	N/A	K	N/A
SONY	DXC-1800	N/A	K	N/A
SONY	DXC-M3	N/A	K	N/A
SONY	DXC-M3A	N/A	K	N/A
SONY	DXF-50	N/A	K	N/A
SONY	EC-330TLV	N/A	K	N/A
SONY	KPS000/7200	N/A	K	N/A
SONY	KV-1920A	N/A	SERVICE	N/A
SONY	KX2501A	9-963-087-01	K	N/A
SONY	KX-2501A	N/A	X	N/A
SONY	PA-A200	N/A	K	N/A
SONY	PVM-1270Q	N/A	K	N/A
SONY	PVM-2530	N/A	K	N/A
SONY	PVM-5300	N/A	U	N/A
SONY	PVM-8000	N/A	U	N/A
SONY	RM-300	N/A	U	N/A
SONY	RM-420	N/A	K	N/A
SONY	RM500	N/A	K	N/A
SONY	SEG2000	N/A	U	N/A
SONY	SERIES CV-2200A	N/A	U	N/A
SONY	SLO-340	N/A	U	N/A
SONY	SSC-D5	N/A	U	N/A
SONY	TC-110B	N/A	U	N/A
SONY	TC-120	N/A	U	N/A
SONY	TC-207	N/A	U	N/A
SONY	TC-228	N/A	U	N/A
SONY	TC-40	N/A	U	N/A
SONY	TC-558	N/A	U	N/A
SONY	TC-654-4	N/A	U	N/A
SONY	TC-755	N/A	U	N/A
SONY	TC-758	N/A	U	N/A
SONY	TC-800B	N/A	U	N/A
SONY	TCD-D10PRO	N/A	U	N/A
SONY	TCM-600	N/A	K	N/A
SONY	VID-P10	N/A	U	N/A
SONY	VO2600	N/A	U	N/A
SONY	VO2610/11	N/A	U	N/A
SONY	VO2860	N/A	U	N/A
SONY	VO2860A	N/A	U	N/A
SONY	VO5600	N/A	U	N/A
SONY	VO5800	N/A	U	N/A
SONY	VP2000	N/A	U	N/A
SONY	VP2010/11	N/A	K	N/A
SONY	VP5000	N/A	K	N/A
SONY	VPH722Q/1020Q	N/A	X	N/A
SONY	XC37/47	N/A	X	N/A
SORENSON	DCR SERIES	N/A	X	1 MANUAL EA.
SORENSON	Q	N/A	X	1 PAMPHLET
SORENSON	5000	N/A	X	1 SHEET
SORENSON	E-6-5	N/A	X	2 MANUALS SCHEMATICS
SORENSON	5030-4	N/A	X	2 MANUALS EA. SERIES
SORENSON	MD48-84MSG	N/A	X	2 PAMPHLETS
SORENSON	ACR A&DCRA SR.	N/A	X	3 MANUALS ASSORTED PARTS LIST
SORENSON	MD SERIES	N/A	X	3 SCHEMATICS ONLY
SORENSON	MA SERIES	N/A	X	5 INSTRUCTION MANUALS
SORENSON	PTM	N/A	X	5 PAMPHLETS W/SPECS ONLY
SORENSON	B NOBATRONS	N/A	X	8 & MISC AC REG
SORENSON	ASSORTED	N/A	X	ALSO 500BB 560BB
SORENSON	ACR APR 1010	N/A	X	CATALOG APPLICATION NOTES
SORENSON	T	N/A	TECHNICAL	INCL 5-18.2 PWR SPL
SORENSON	QB SERIES	N/A	E	INSTRUCTION
SORENSON	QHS 20/40/100	N/A	X	INSTRUCTION
SORENSON	FL	N/A	X	NO SCHEMATICS
SORENSON	PTM SERIES	N/A	X	PAMPHLET
SORENSON	Q1	N/A	X	PAMPHLET
SORENSON	QB 18-.75	N/A	X	SCHEMATICS AND PARTS
SORENSON	QRB 301-1	N/A	X	SCHEMATICS & PARTS
SORENSON	1750	N/A	X	N/A
SORENSON	2000	N/A	X	N/A
SORENSON	5002	N/A	X	N/A
SORENSON	1000 5000	N/A	X	N/A
SORENSON	1000 WATT DCR-B	N/A	X	N/A
SORENSON	1001 2501	N/A	X	N/A
SORENSON	1750-S	N/A	X	N/A
SORENSON	1800 WATT DCR-B	N/A	X	N/A
SORENSON	230-6	N/A	X	N/A
SORENSON	B B00B 610B	N/A	X	N/A
SORENSON	DCRA SERIES	N/A	X	N/A
SORENSON	DCR-B DCRA	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SORENSEN	F 12-5	N/A	X	N/A
SORENSEN	FCR 100	N/A	X	N/A
SORENSEN	FR SERIES	N/A	X	N/A
SORENSEN	MMS MMD MMT	N/A	X	N/A
SORENSEN	MR	N/A	X	N/A
SORENSEN	MR 32/5	N/A	X	N/A
SORENSEN	Q6-4 Q2-2 Q28-1	N/A	X	N/A
SORENSEN	QB 12-8	N/A	X	N/A
SORENSEN	QB 28-8 28-4	N/A	X	N/A
SORENSEN	QB 645	N/A	E	N/A
SORENSEN	QHS 20/40/100	N/A	X	N/A
SORENSEN	QHS SORIEX	N/A	X	N/A
SORENSEN	QM SERIES	N/A	X	N/A
SORENSEN	QR QRD	N/A	X	N/A
SORENSEN	QR 150-1	N/A	X	N/A
SORENSEN	QR 75-2	N/A	X	N/A
SORENSEN	QRB	N/A	X	N/A
SORENSEN	QRC	N/A	X	N/A
SORENSEN	QRD	N/A	X	N/A
SORENSEN	QRE 7-5 - 50	N/A	X	N/A
SORENSEN	QSB	N/A	X	N/A
SORENSEN	R3010 & R5010	N/A	X	N/A
SORENSEN	RC36&15 36-30	N/A	X	N/A
SORENSEN	SRL	N/A	X	N/A
SORENSEN	STM	N/A	TECHNICAL	N/A
SORN	5-14.6	146628	TECHNICAL	NARROW-RANGE P.S.
SORN	QSA SERIES	14-6070-C	SERVICE	POWER SUPPLY
SORN	SRL SERIES	586244	X	SORENSEN MFG MANUAL
SORN	VOLTAGE PROTECT	14-6634	X	N/A
SOUND TECHNOLOGY	1700	N/A	D	N/A
SOUTHWEST TECH	207B	N/A	D	POTENTIOMETER
SPACE AGE CONTROL	160 SERIES	N/A	X	VARIOUS MODELS OF POT'S
SPACE AGE CONTROL	CATALOG	N/A	E	N/A
SPARTA	TTU-90	N/A	E	INSTRUCTION (SHEET)
SPECIAL-DYNAMICS	DM1	N/A	X	INSTRUCTION
SPECIAL-DYNAMICS	SD47	N/A	E	N/A
SPECIFIC PRODUCTS	MARK III	N/A	N/A	DATA AND INSTRUCTIONS
SPECTONICS	SPX 1868	N/A	X	USER'S MANUAL
SPECTRA DIODE LABS	SDL-822	N/A	X	3 PAMPHLETS
SPECTRA DRODE LABS	SDL 800	N/A	X	N/A
SPECTRA PHYSICS	5820	N/A	X	INSTRUCTION MANUAL
SPECTRA PHYSICS	102	N/A	X	N/A
SPECTRA PHYSICS	131	N/A	X	N/A
SPECTRA PHYSICS	132	N/A	X	N/A
SPECTRA PHYSICS	142	N/A	X	N/A
SPECTRA PHYSICS	420	N/A	X	N/A
SPECTRA PHYSICS	477	N/A	X	N/A
SPECTRA PHYSICS	5720	N/A	1	N/A
SPECTRA PHYSICS	120/256	N/A	X	N/A
SPECTRA PHYSICS	155/156	N/A	X	N/A
SPECTRAL DYNAMICS	SD105	N/A	X	AMPLITUDE SERVO MONITOR
SPECTRAL DYNAMICS	SD104	N/A	X	OSCILLATOR
SPECTRAL DYNAMICS	SD375	N/A	N/A	SERVICE VOL 1
SPECTRAL DYNAMICS	SD380CVZ	N/A	X	SERVICE VOL 2
SPECTRAL DYNAMICS	13116	N/A	K	N/A
SPECTRAL DYNAMICS	SD/27/129	N/A	X	N/A
SPECTRAL DYNAMICS	SD1002 EP-11A	N/A	X	N/A
SPECTRAL DYNAMICS	SD1010	N/A	X	N/A
SPECTRAL DYNAMICS	SD1012	N/A	X	N/A
SPECTRAL DYNAMICS	SD101A	N/A	X	N/A
SPECTRAL DYNAMICS	SD101B	N/A	X	N/A
SPECTRAL DYNAMICS	SD104A-1	N/A	X	N/A
SPECTRAL DYNAMICS	SD105C	N/A	X	N/A
SPECTRAL DYNAMICS	SD109	N/A	X	N/A
SPECTRAL DYNAMICS	SD11	N/A	X	N/A
SPECTRAL DYNAMICS	SD110	N/A	X	N/A
SPECTRAL DYNAMICS	SD112	N/A	X	N/A
SPECTRAL DYNAMICS	SD114	N/A	X	N/A
SPECTRAL DYNAMICS	SD115	N/A	X	N/A
SPECTRAL DYNAMICS	SD122	N/A	X	N/A
SPECTRAL DYNAMICS	SD131	N/A	X	N/A
SPECTRAL DYNAMICS	SD134	N/A	X	N/A
SPECTRAL DYNAMICS	SD141	N/A	X	N/A
SPECTRAL DYNAMICS	SD22	N/A	X	N/A
SPECTRAL DYNAMICS	SD28	N/A	X	N/A
SPECTRAL DYNAMICS	SD301	N/A	X	N/A
SPECTRAL DYNAMICS	SD302	N/A	X	N/A
SPECTRAL DYNAMICS	SD305	N/A	X	N/A
SPECTRAL DYNAMICS	SD306	N/A	X	N/A
SPECTRAL DYNAMICS	SD308	N/A	X	N/A
SPECTRAL DYNAMICS	SD332	N/A	X	N/A
SPECTRAL DYNAMICS	SD335	N/A	X	N/A
SPECTRAL DYNAMICS	SD360	N/A	SERVICE VOL. 1	N/A
SPECTRAL DYNAMICS	SD380CVZ	N/A	X	N/A
SPECTRAL DYNAMICS	SD43	N/A	N/A	N/A
SPECTRAN	40-10	N/A	X	USERS MANUAL
SPECTRA-PHYSICS	117A	N/A	X	N/A
SPECTRON SYSTEM	D502	N/A	N/A	PAMPHLET
SPECTRONICS	1500	N/A	O	OPERATIONS MANUAL
SPECTRUM DYNAMICS	900	N/A	X	SCHEMATIC
SPECTRUM DYNAMICS	900	N/A	X	SERVICE MANUAL
SPEEDMETER	SP-5	N/A	X	N/A
SPEEDOMAX	S	N/A	X	N/A
SPELLMAN	RG15	N/A	X	1 SHEET
SPELLMAN	RHR	N/A	E	1 SHEET
SPELLMAN	CATALOG	N/A	X	N/A
SPELLMAN	HP	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SPENCER KENNEDY LAB	SKL507	N/A	D	INSTRUCTION
SPENCER-KENNEDY	300/302	N/A	X	MICROLEVEL
SPERRY	CATALOG	N/A	X	N/A
SPERRY MICROLINE	6201	N/A	X	N/A
SPERRY MICROLINE	239-402	N/A	X	N/A
SPERRY RAND CORP.	0-15-0-23	N/A	N/A	OPERATIONS & MAINTENANCE MANUAL
SPEX	CD2A	N/A	X	PRELIMINARY MANUAL
SPEX INDUSTRIES	500M	N/A	TECHNICAL	N/A
SPRAGUE	TCA-1	N/A	X	TECHNICAL REFERENCE MANUAL
SQT	SQ5110	100085-001	X	N/A
SQUIRE SANDERS	BSSG	N/A	X	N/A
SRC	3564	N/A	X	N/A
SRC	6202	N/A	X	N/A
SSR	1105	N/A	X	N/A
SSR	1106	N/A	X	N/A
SSR	1120	N/A	X	N/A
SSR	1150	N/A	X	N/A
STACO	10694	N/A	X	N/A
STANDARD CABINET CO.	LH/3FS	N/A	OPERATOR/PROGRAMMER	OPERATIONS & SERVICE MANUAL
STANDFORD RESEARCH	PS300 SERIES	N/A	N/A	OPERATOR/PROGRAMMER
STANDFORD RESEARCH SYSTEMS (SRS)	SR770	N/A	1	OPERATION & SERVICE
STANDFORD RESEARCH	SR620	N/A	X	MAINTENANCE/OPERATOR
STANDFORD RESEARCH	SR640	N/A	N/A	OPERATING/PROGRAMMING DUAL CHAN FILTER
STANDFORD RESEARCH	SR 540	N/A	1	OPERATION & SERVICE MANUAL
STANDFORD RESEARCH	SR650	N/A	OPERATOR/SERVICE	OPERATION/SERVICE
STANDFORD RESEARCH	DS345	N/A	N/A	OPERATIONS & SERVICE MANUAL
STANDFORD RESEARCH	DG535	N/A	N/A	OPERATORS/MAINTENANCE
STANDFORD RESEARCH	SR510	N/A	N/A	SERVICE MANUAL
STANDFORD RESEARCH	SR560	N/A	MAINT/OPER	SERVICE MANUAL
STANDFORD RESEARCH	DG535	N/A	OPER/MAINT	N/A
STANDFORD RESEARCH	SR200 SERIES	N/A	1	N/A
STANDFORD RESEARCH	SR250	N/A	1	N/A
STANDFORD RESEARCH	SR440	N/A	OP&M	N/A
STANDFORD RESEARCH SYSTEMS	SR830	N/A	B	LOW-NOISE CURRENT PREAMPLIFIER
STANDFORD RESEARCH SYSTEMS INC	SR570	N/A	B	CATALOG
STAPLEX	TFIA	N/A	B	CATALOG
STAPLEX	TFIA-2	N/A	Q	CATALOG
STAR	SR-10/15	N/A	D	USER
STAR	NX1000	N/A	N/A	USERS MANUAL
STAR	SR-10115	N/A	D	VARIOUS MODELS OF GAGES
STARRETT	CATALOG	N/A	X	VARIOUS MODELS OF GAGES
STARRETT	CATALOGS	N/A	B	N/A
STATHAM	CA9-0	N/A	B	CATALOG
STATHAM	P606	N/A	B	CATALOG
STATHAM	PA-208	N/A	B	CATALOG
STATHAM	PA222TC	N/A	B	CATALOG
STATHAM	PA285TC	N/A	B	CATALOG
STATHAM	PA288TC	N/A	B	CATALOG
STATHAM	PA731TC	N/A	B	CATALOG
STATHAM	PA731TC	N/A	B	CATALOG
STATHAM	PL131TC	N/A	B	CATALOG
STATHAM	PL732TC	N/A	B	CATALOG
STATHAM	PL80TC	N/A	B	CATALOG
STATHAM	PM131TC	N/A	B	CATALOG
STATHAM	PM260TC	N/A	B	CATALOG
STATHAM	PM280TC	N/A	B	CATALOG
STATHAM	PM5TC	N/A	B	CATALOG
STATHAM	PM60TC	N/A	B	CATALOG
STATHAM	PM6TC	N/A	B	CATALOG
STATHAM	PM732TC	N/A	B	CATALOG
STATHAM	PM743TC	N/A	X	CATALOG
STATHAM	TC9	N/A	OPERATION & DATA SHEET	HAND HELD STATIC LOCATOR
STATHAM	PM80TC	N/A	X	N/A
STATHAM	SC1100	N/A	INSTRUCTION SHEET	N/A
STATIC CONTROL SERVICES	400	N/A	DATA SHEET	CHARGE PLATE MONITOR
STATIC CONTROL SERVICES	5000	N/A	DATA SHEET	CHARGE PLATE MONITOR
STATIC CONTROL SERVICES	7000	N/A	INSTRUCTIONS	DIGITAL MICROAMMETER
STATIC CONTROL SERVICES	800	N/A	X	ELECTROSTATIC FIELDMETER
STATIC CONTROL SERVICES	100	N/A	DATA SHEET	HAND HELD STATIC METER
STATIC CONTROL SERVICES	300	N/A	LIMITED INFORMATION	STATIC FIELD LOCATOR
STATIC CONTROL SERVICES	970	N/A	X	N/A
STAVELEY	MR106	N/A	N/A	OPERATORS
STAVELEY/METROTECH	MP-215	N/A	N/A	INSTRUCTION
STAVELEY	MD702	N/A	X	INSTRUCTION
STAVELEY	MG701	N/A	X	N/A
STELLAMETRICS	DS-10	N/A	EVALUATION	HYGROMETERS
STELLAMETRICS	DD-16	N/A	X	N/A
STELLAMETRICS	DP-10	N/A	OPERATING	N/A
STEPHENS ANALYTICAL INC. AKA MCM	MCM DEWLUXE	N/A	A	COMPARATIVE EVALUATION OF HYGROMETERS
STEPHENS ANALYTICAL INC. AKA MCM	DEWMATIC	N/A	V	VIBRATION ANALYZER
STEPHENS ANALYTICAL INC. AKA MCM	HYGROMETERS	N/A	V	VIBRATION ANALYZER
STEWART WARNER	900	N/A	X	N/A
STL	1D	N/A	MAINTENANCE	N/A
STL	2A	N/A	MAINTENANCE	N/A
STO	3910	9613	OPERATOR	3910 DETACHED DIAGNOSTIC DEVICE
STO	3910	N/A	OPERATOR	3910 DETACHED DIAGNOSTIC DEVICE
STO	1950	PN9360	OPERATOR	IPB
STO	1950	PN9360	CATALOG	MAG TAPE UNIT
STO	3910	9480	A	USER GUIDE FOR 1900 DIAGNOSTICS
STO	19XX	19XX	TECHNICAL	USERS GUIDE FOR 1900 DIAGNOSTICS
STO	1935	N/A	MAINTENANCE	VOL 1 FORMATTER
STO	1935 FORMATTER	PN9357	MAINTENANCE	VOL 2 FORMATTER
STO	1935 FORMATTER	PN9357	MAINTENANCE	VOL 2 MAG TAPE UNIT
STO	3910	9613	A	N/A
STO	3910	9480	TECHNICAL	N/A
STODDART	NMA-5	N/A	X	OPERATION MANUAL
STODDART	NMA-4	N/A	N/A	N/A
STOKES	412/411	N/A	X	N/A



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
STOKES	DG-264	N/A	X	N/A
STRAINSIERT	HW-1	N/A	X	INSTRUCTION
STRAINSIERT	HW1-NO	N/A	E	OPERATION
STRAINSIERT	BL310	N/A	E	N/A
STRAINSIERT	HW1-N8	N/A	E	N/A
STROBOCON	6T-2	N/A	X	OPERATION
STROBOCON	6T-4	N/A	X	N/A
STROMBERG-CARLSON	SOUND 5X5	N/A	X	N/A
STURGESS	C-105	N/A	E	N/A
STURRUP	1410	N/A	E	INSTRUCTION
SUNDSTRAND	CATALOG	N/A	R	ACCELEROMETER
SUNDSTRAND	QA-1100	N/A	R	ACCELEROMETER
SUNDSTRAND	QA-1200	N/A	R	ACCELEROMETER
SUNDSTRAND	QA-1300	N/A	R	ACCELEROMETER
SUNDSTRAND	QA-1400	N/A	R	ACCELEROMETER
SUNDSTRAND	QA-2000	N/A	N/A	ACCELEROMETER
SUNDSTRAND	538D	N/A	R	ACCELEROMETERS
SUNDSTRAND	507	N/A	X	INSTRUCTION
SUNDSTRAND	300B/T	N/A	E	INSTRUCTION
SUNDSTRAND	504E	N/A	E	INSTRUCTION
SUNDSTRAND	QA-900	N/A	W	TECH. INFO. IS PROPRIETARY
SUNDSTRAND	538D	N/A	R	N/A
SUPER MAC	SPECTRUM VIDEO	N/A	X	STEPPING MOTORS
SUPERIOR ELECTRIC	STABILINE	N/A	SERVICE	OPERATION
SUPERIOR ELECTRIC	CATALOG	N/A	X	N/A
SUPERIOR ELECTRIC	SP153	N/A	OPERATION	N/A
SUPERIOR ELECTRIC	UPSY SERIES	N/A	OPERATOR	N/A
SYI	9800	PB9800-9001-02	OPERATOR	DISK CONTROLLER USERS GUI
SYI	9900 SBI	PB9930-9001-01	OPERATOR	DISK DRIVE USER GUIDE
SYI	9400	PB9400-9001-01	OPERATOR	GUIDE 9400 OVERVIEW
SYI	SDA50	PB6210-9001-X2	TECHNICAL	HARDWARE REFERENCE VOL I
SYI	3400/3500	3400-3500	OPERATOR	MANUAL 9400 VAX11/750/780
SYI	150	1100-8001	DIAGNOSTICS	MASS SPEC INTER
SYI	3016/3018/3021	3016-01	TECHNICAL	POWER SUPPLY
SYI	9900	PB9910-9001-01	TECHNICAL	REFERENCE
SYI	SDA 50	N/A	SERVICE	SDA50 DISK CONTROLLER USER'S GUIDE
SYI	9400/9800/6100	PB9400-9021-06	OPERATOR	TECH REF GUIDE 9800 CMI
SYI	9900	PB9900-9002-01	OPERATOR	TECHNICAL REFERENCE GUIDE
SYI	9900	PB9900-9001-01	TECHNICAL	UNIBUS
SYI	9400	PB9430-9001-01	TECHNICAL	USERS GUIDE 6100/9400/980
SYI	9400	PB9410-9001-01	OPERATOR	USERS GUIDE 9400 CONTROL
SYI	9400	PB9400-9015-02	OPERATOR	USERS GUIDE 9400 SBI I/F
SYI	9400	PB94009011	OPERATOR	USERS GUIDE 9400 UNIBUS
SYI	9800	PB9810-9001-02	OPERATOR	USERS GUIDE 9800 CMI CPA
SYI	9800	PB9840-9001-02	OPERATOR	USERS GUIDE 9800 CONTROLL
SYI	9800	PB9840-9002-01	OPERATOR	USERS GUIDE 9800 UNIBUS
SYI	150	5150	SERVICE	N/A
SYI	150	A-1182-9006-1	SERVICE	N/A
SYI	3090	3090-01	OPERATOR	N/A
SYI	9900 CMI	PB9940-9002-01	OPERATOR	N/A
SYI	M228X	PB9901-9001-05	OPERATOR	N/A
SYIC	3800	3840	E	VOL I THEORY VOL II LOGIC DIAGRAMS-LB
SYIC	3800	3840	X	N/A
SYLVANIA	301	N/A	X	N/A
SYLVANIA	RFLB-1	N/A	X-0	N/A
SYLVANIA	TBN-65E	N/A	X	N/A
SYMBOL TECHNOLOGY	8100II	N/A	Q	N/A
SYMBOL TECHNOLOGY	LL-380	N/A	OPERATING AND SERVICE	N/A
SYSGEN	DURAPAK	N/A	OPERATING AND SERVICE	OPERATOR AND SERVICE
SYSTEM DYNAMICS INC.	SPECTRALITE 919	N/A	X	OPERATING AND SERVICE
SYSTRON DONNER	4109	N/A	R	ACCELE.
SYSTRON DONNER	9000/15/25	N/A	X	ACCELE.
SYSTRON DONNER	6202A	N/A	F	ALSO 6243A 6244A
SYSTRON DONNER	6250	N/A	E	INSTRUCTION
SYSTRON DONNER	8580	N/A	R	INSTRUCTION
SYSTRON DONNER	LR 28-30	N/A	E	INSTRUCTION
SYSTRON DONNER	M106	N/A	E	INSTRUCTION
SYSTRON DONNER	M106A	N/A	X	INSTRUCTION
SYSTRON DONNER	7000A	N/A	E	INSTRUCTION MANUAL
SYSTRON DONNER	112	N/A	X	M00906/GENERATOR PULSE
SYSTRON DONNER	TM1	N/A	OPERATOR/SERVICE	OPERATOR/SERVICE
SYSTRON DONNER	4310	N/A	F	SCHEMATICS
SYSTRON DONNER	7004	N/A	X	SERVICE
SYSTRON DONNER	4106	N/A	R	TECHNICAL BULLETIN
SYSTRON DONNER	218	N/A	E	THEORY OF OPERATION
SYSTRON DONNER	112	N/A	X	N/A
SYSTRON DONNER	113	N/A	X	N/A
SYSTRON DONNER	1292	N/A	E	N/A
SYSTRON DONNER	4590	N/A	F	N/A
SYSTRON DONNER	6050	N/A	F	N/A
SYSTRON DONNER	6150	N/A	F	N/A
SYSTRON DONNER	8120	N/A	X	N/A
SYSTRON DONNER	8130	N/A	T	N/A
SYSTRON DONNER	8140	N/A	X	N/A
SYSTRON DONNER	8150	N/A	X	N/A
SYSTRON DONNER	8152	N/A	X	N/A
SYSTRON DONNER	8210	N/A	X	N/A
SYSTRON DONNER	8420	N/A	E	N/A
SYSTRON DONNER	100C	N/A	X	N/A
SYSTRON DONNER	1031-20	N/A	X	N/A
SYSTRON DONNER	1037-5	N/A	N/A	N/A
SYSTRON DONNER	6241A 6242A	N/A	E	N/A
SYSTRON DONNER	7004A	N/A	X	N/A
SYSTRON DONNER	720-2	N/A	X	N/A
SYSTRON DONNER	8120-295	N/A	T	N/A
SYSTRON DONNER	8140/OPT13	N/A	X	N/A
SYSTRON DONNER	CATALOG	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
SYSTRON DONNER	HI-128/36	N/A	X	N/A
SYSTRON DONNER	HI-150-402	N/A	X	N/A
SYSTRON DONNER	HI-150-591	N/A	X	N/A
SYSTRON DONNER	HI-151	N/A	X	N/A
SYSTRON DONNER	HR 40-5B	N/A	X	N/A
SYSTRON DONNER	HR 60-8EOV	N/A	X	N/A
SYSTRON DONNER	HY-51-40-5	N/A	X	N/A
SYSTRON DONNER	HY-51-40-5-OV	N/A	X	N/A
SYSTRON DONNER	HY-51-60-5	N/A	X	N/A
SYSTRON DONNER	M106A	N/A	X	N/A
SYSTRON DONNER	M7C160-15	N/A	F	N/A
SYSTRON DONNER	M7C160-15 OV	N/A	F	N/A
SYSTRON DONNER	SD1033	N/A	F	N/A
SYSTRON DONNER	SD1924 1925 1926	N/A	X	N/A
SYSTRON DONNER	SD1948A	N/A	X	N/A
SYSTRON-DONNER	PHR 50-8	N/A	SERVICE	FREQ. COUNTER
SYSTRON-DONNER	M5C SERIES	N/A	SERVICE	OPERATOR/SERVICE
SYT	8110A	8110H-376-9-71	SERVICE	CALANDER CLOCK UNIT
SYT	8130-374	81303741071	B	TAPE SEARCH UNIT
SYT	8120-373	C21621-7-4	SERVICE	TIME CODE
SYT	8120-529	8120-529-2-71	SERVICE	TIME CODE READER
SYT	6202A	6202A-9-74	SERVICE	N/A
SYT	8140-596	81405961071	B	N/A
T.I.	141	N/A	L	N/A
T.I.	145	N/A	L	N/A
T.S.I.	4100	N/A	B	CATALOG
T.S.I.	1045	N/A	L	N/A
T.S.I.	1650	N/A	B	N/A
TABER	185	N/A	B	CATALOG
TABER	187	N/A	B	CATALOG
TABER	206	N/A	B	CATALOG
TABER	217	N/A	B	CATALOG
TABER	226	N/A	B	CATALOG
TABER	2401	N/A	B	CATALOG
TABER	2402	N/A	B	CATALOG
TABER	2403	N/A	B	CATALOG
TABER	2404	N/A	B	CATALOG
TABER	2415	N/A	X	CATALOG
TABER	254	N/A	X	N/A
TABTRON	MRT 32V250ACC	N/A	W	N/A
TABTRON	T28V24A2CC	N/A	W	N/A
TALLY	424	N/A	SEE TDO 410	ELECTRONIC CLINOMETER
TALLY	420	N/A	D	N/A
TALYVEL	C112/753	N/A	U	N/A
TAND	TM 100-1/2	REF	OPERATION	SERIES
TANDBERG	100	N/A	B	MEMORY EXPANSION
TATR	JRAM AT3	D11145	B	CATALOG
TAVIS	P1	N/A	B	CATALOG
TAVIS	P2	N/A	B	CATALOG
TAVIS	P4	N/A	B	CATALOG
TAVIS	P5	N/A	B	CATALOG
TAVIS	P6	N/A	B	CATALOG
TAVIS	P7	N/A	B	CATALOG
TAVIS	P8	N/A	B	N/A
TAYLOR	700J	N/A	U	QIC-60/QT60 TAPE BACKUP
TAYLOR	445T	N/A	B	N/A
TAYLOR	446T	N/A	W	N/A
TAYLOR	447T	N/A	OPERATOR	N/A
TCA	Q1C-60	934569	U	N/A
TEAC	R-71	N/A	N/A	INSTRUMENTATION MANUAL
TEAC	RD-101T/RD-111T	N/A	X	MAINTENANCE
TEAC	A7010SL -7030SL	N/A	U	N/A
TEAC	A7030	N/A	U	N/A
TEAC	AR-71	N/A	U	N/A
TEAC	RD-200T	N/A	E	N/A
TECHNICAL ASSOCIATES	5RJ-7 HRJ-7	N/A	X	SERVICE
TECHNICS	SU-V5	N/A	X	3 MANUALS
TECHNI-RITE	TR990	N/A	1	VARIOUS TOOLS PARTS AND INSTRUMENTS
TECHNI-TOOL	CATALOG	N/A	1	1 SET = 2 MANUALS
TECHNOLOGY INC.	311A	N/A	L	2 MANUALS
TECHNOLOGY INC.	310A-320A	N/A	L	N/A
TECHNOLOGY INC.	LINURMAS	N/A	E	N/A
TECK. VERA.	3-4-T	N/A	N/A	INSTRUCTION (SHEET)
TEEL	2P002B	N/A	SCHEMATICS	INSTRUCTION/SERVICE MANUAL
TEGAM/TEKTRONIX	FG501A	N/A	N/A	SERVICE DRAWINGS
TEI	DP84	965066	TECHNICAL	PLUG-IN
TEK	4010 SERIES	REF	SERVICE	021-0074-00-DATA COMM
TEK	A	N/A	TECHNICAL	1993 PRODUCT CATALOG
TEK	021-0135-01	070-2026-00	TECHNICAL	4010 INTERFACE SYNC
TEK	021-0111-00	070-1613-00	OPERATOR	4010 SERIES-COMM
TEK	021-0074-01	070-2188-00	TECHNICAL	4020 DATA COMM
TEK	4109/CX	REF	OPERATOR	4112B-13B-14B-15B-16B/ SERIES CMD REF
TEK	4110	070-3892-01	PROGRAM	4114/4114
TEK	4100 F3A	070-5500-00	TECHNICAL	4115 COLOR COPIER INTERFACE
TEK	4220/4230	070-6642-00	SERVICE	4220/4230 SERIES COPY 2
TEK	4220/4230	070-6642-00	OPERATOR	4230 SERIES
TEK	4113	REF	HOST	640-0532-00
TEK	834R02A/834R06	070-4216-00	TECHNICAL	64K/128K MEMORY
TEK	4115B/25128/29	REF	SERVICE	80286/7 CPU BOARD SERVICE MANUAL
TEK	4120	070-5276-00	SEE TEK 927	80286/7 PROCESSOR BOARD
TEK	010-6105-03	062-1796-00	SERVICE	834 CURRENT LOOP ADAPTER-GFE
TEK	8500/86/87/88	070-3968-01	SERVICE	8540 INTEGRATION
TEK	7B71	070-0983-00	OPERATOR	8020000 AND UP
TEK	4014-1/4015-1	070-2303-00	TECHNICAL	8049999 & BELOW
TEK	4014 4014-1	070-1647-00	SERVICE	8050000+UP
TEK	834R01	070-3534-00	INSTALLATION	BISYNC ROM PACKS GFE 4311-1
TEK	42XX	070-*6046-02	N/A	COLOR GRAPHICS RASTERIZER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEK	4115B	070-4666-00	SERVICE	COLOR TERMINAL 19IN
TEK	4115B	070-4665-01	OPERATOR	COLOR TERMINAL 19INCH
TEK	021-0074-00	070-1379-00	SERVICE	COMM INTERFACE
TEK	4211	070-7138-00	SERVICE	COMMAND SUMMARY
TEK	4105	070-4528-01	TECHNICAL	COMPUTER DISPLAY
TEK	4014	070-1648-00	SERVICE	COMPUTER TERMINAL
TEK	4014/15/16 OPT5	REF	OPERATOR	COMPUTER TERMINAL
TEK	4014-4014-1	070-1647-00	SERVICE	COMPUTER TERMINAL
TEK	4014/4014-1	070-1647-00	OPERATOR	COMPUTER TERMINALS
TEK	015-0361-00	070-2963-00	TECHNICAL	CURRENT LOOP ADAPTER
TEK	P60602A	070-1671-00	CATALOG	DATA ACQUISIT.PROB
TEK	834	070-3400-01	SERVICE	DATA COMM ANALYZER
TEK	015-0361-00	070-2963-00	SERVICE	DATA COMM INTERFACE
TEK	021-0065-00	070-1458-00	SERVICE	DATA COMM INTERFACE
TEK	021-0135-01	070-2026-00	N/A	DATA INTERFACE
TEK	834	REF	OPERATOR	DATA SET TESTER
TEK	0	N/A	OPERATOR	DATA SHEET-SCOPE PR
TEK	021-0074-00	070-1379-00	SERVICE	DATACOMM INTERFACE
TEK	021-0074-01	070-2188-00	SERVICE	DATACOMM INTERFACE
TEK	834	N/A	SERVICE	DATACOMM TESTER
TEK	830R01	070-5745-00	OPERATOR	DATACOMM TESTER
TEK	834 ROM PACKS	REF	OPERATOR	DATACOMM TESTER
TEK	7904	N/A	N/A	DIFF AMP PLUGIN
TEK	ALL	Z7A-8253-1	N/A	DIFFERENTIAL AMP
TEK	DD501	N/A	OPERATOR	DIGITAL DELAY
TEK	4662	070-1933-01	OPERATOR	DIGITAL PLOTTER
TEK	4662	070-4165-00	SERVICE	DIGITAL PLOTTER
TEK	DD501	070-1818-01	SERVICE	DISPLAY FORMATTER
TEK	4105	070-4526-01	SERVICE	DISPLAY MODULE
TEK	4105	070-4525-00	OPERATOR	DISPLAY TERMINAL
TEK	4105	070-4527-00	TECHNICAL	DISPLAY TERMINAL
TEK	4106/4107/CX	TEF	OPERATOR	DISPLAY TERMINAL
TEK	8500	070-3923-00	OPERATOR	EMULATOR PROCESSOR
TEK	8500/8086/8088	070-3775-00	SERVICE	EMULATOR SPECIFICS
TEK	4693RGB	070-6569-99	SERVICE	FIELD SERVICE PHASER II
TEK	4662	REF	SERVICE	FIELD SERVICE MANUAL
TEK	4694	070-8196-01	SERVICE	FIELD SERVICE MANUAL
TEK	4694	070-8196-02	TECHNICAL	FIELD SERVICE MANUAL
TEK	4698	N/A	N/A	FIELD SERVICE MANUAL
TEK	2235A	N/A	OPERATOR	FOR GFE 5032
TEK	2430A	070-6339-02	K	FOR GFE 5032
TEK	DM502A	N/A	SERVICE	GENERATOR
TEK	4105	REF	SERVICE	GRAPHIC TERMINAL
TEK	4208	070-5874-01	SERVICE	GRAPHIC TERMINAL
TEK	4110 SERIES	070-4715-00	TECHNICAL	GRAPHICS TABLET
TEK	WR501	070-2168-00	N/A	GRAPHICS X STATION
TEK	4632	REF	SERVICE	HARD COPIER
TEK	4611	070-3449-00	SERVICE	HARD COPY UNIT
TEK	4611	REF	SERVICE	HARD COPY UNIT
TEK	4631	REF	OPERATOR	HARD COPY UNIT
TEK	4631	070-1831-01	SERVICE	HARD COPY UNIT
TEK	4014/4014-1	070-1647-00	TECHNICAL	HARDCOPY
TEK	4692	REF	SCHEMATICS	INK JET HEAD REMOVAL AND REPLACEMENT
TEK	8540	070-3939-00	N/A	INSTALLATION GUIDE
TEK	4114B/4116B	REF	TECHNICAL	INSTALLATION-SERVICE
TEK	821	070-1741-00	TECHNICAL	INSTRUCTION
TEK	2215	N/A	OPERATOR	INSTRUCTIONS
TEK	021-0065-00	070-1458-00	SERVICE	INTERFACE BOARD
TEK	4115B	070-4668-01	SERVICE	INTRO BROCHURE
TEK	LP8200	070-2361-00	N/A	LA180
TEK	LA501	070-1967-00	OPERATOR	LOGIC ANALYZER
TEK	7D01	070-2206-02	OPERATOR	LOGIC ANALYZER
TEK	7D01 B020000+UP	070-2206-02	N/A	LOGIC ANALYZER
TEK	LA501	070-2047-00	OPERATOR	LOGIC ANALYZER
TEK	4170	070-7615-00	SERVICE	LOGIC IPB INSTALLATION
TEK	4641/4641-1	REF	OPERATOR	LOGIC/IPB
TEK	603/604	070-1259-01	OPERATOR	MONITOR
TEK	M	N/A	TECHNICAL	MONITOR
TEK	119-2023-00	070-5656-00	N/A	OPERATION/SERVICE
TEK	1105	070-1479-00	OPERATION/SERVICE	OPERATOR SERVICE SCHEMATICS IPB
TEK	4111	REF	SERVICE	OPERATOR/SCHEMATICS
TEK	4698	070-8345-03	SERVICE	OPERATORS
TEK	4110B	070-4811-00	OPERATIONS	OPERATOR-TECHNICAL
TEK	4692	70481501	SCHEMATICS	OPERRATING HINTS
TEK	4662	050-1523-00	OPERATOR	OPTION 31
TEK	4662	070-1932-01	SERVICE	OPTION 31
TEK	4115/4120	070-5521-00	SERVICE	OPTION 3A/3C INTERFACE SERVICE
TEK	4014-1/4015-1	070-1648-00	OPERATOR	OPTION&S PERIPHERAL
TEK	4016-1	REF	SERVICE	OPTIONS 40 41
TEK	021-0065-00	070-1458-00	SERVICE	OPTL DATA COMM
TEK	8540	070-3920-00	SERVICE	OS/40 VERSION I
TEK	211	N/A	N/A	OSCILLOSCOPE
TEK	603/604	N/A	SERVICE	OSCILLOSCOPE
TEK	7603/R7603	070-1310-00	N/A	OSCILLOSCOPE
TEK	RM-503	N/A	N/A	O-SCOPE
TEK	2430A	070-6338-01	N/A	OSCOPE PLUG-IN
TEK	3A1	N/A	K	OSCOPE PLUG-IN
TEK	3A1	N/A	K	OSCOPE PLUG-IN
TEK	3A3	N/A	N/A	OSCOPE PLUG-IN
TEK	4643	070-3870-01	SERVICE	O-SCOPE/OPTIONS
TEK	105	N/A	TECHNICAL	OSILLOSCOPE BATTERY
TEK	4081	REF	SERVICE	PDF/VAX DMA INSTALLATION
TEK	184	N/A	N/A	PLUG-IN
TEK	335	070-1942-01	K	PLUG-IN
TEK	8540	070-3921-00	CATALOG	PLUG-IN
TEK	1A1	N/A	N/A	PLUG-IN
TEK	1A4	N/A	N/A	PLUG-IN

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEK	1L20	N/A	N/A	PLUG-IN
TEK	2A61	N/A	N/A	PLUG-IN
TEK	3A7	N/A	SERVICE	PLUG-IN
TEK	7A22	070-0931-00	TECHNICAL	PLUG-IN
TEK	AM502 DIFF AMP	070-1582-00	OPERATOR	PLUG-IN
TEK	DC505A	N/A	OPERATOR	PLUG-IN
TEK	L	N/A	OPERATOR	PLUG-IN
TEK	LP8200	070-2364-00	N/A	PLUG-IN
TEK	RM504	070-315	USER	PLUG-IN
TEK	XN5/XN7	070-7799-01	X	PLUG-IN
TEK	7D01 B086085+UP	070-2789-00	TECHNICAL	PLUG-IN/PROBE
TEK	TDS 644A	N/A	N/A	POWER MODULE
TEK	TM501	N/A	TECHNICAL	POWER MODULE
TEK	TM-503	N/A	N/A	POWER MODULE
TEK	TM506	N/A	N/A	POWER MODULE
TEK	PRIMER	46W-6428	N/A	POWER SUPPLY
TEK	4106/4107/CX	070-4889-01	SERVICE	POWER SUPPLY SCHEMATICS FOR NEW P/S
TEK	LA501W	070-2169-00	SERVICE	PRINTER LA180
TEK	464	070-1653-01	SERVICE	PRINTER LP8200
TEK	P6451	062-2372-00	SERVICE	PROBE
TEK	TU7	N/A	SERVICE	PRODUCT CATALOG SUPPLEMENT NOV 1991-1992
TEK	TDS 620A	N/A	SERVICE	PROGRAMMER
TEK	4109	70489900	SERVICE	PROGRAMMERS REFERENCE MANUAL
TEK	PS-501	N/A	N/A	PULSE GENERATOR
TEK	4170	070-7615-00	SERVICE	PWR SUPPLY CALIBRATION FIXTURE
TEK	4110 SERIES	070-4664-00	TECHNICAL	REF GUIDE
TEK	42XX	070-6492-01	SERVICE	REFERENCE GUIDE
TEK	4109	070-4893-00	SERVICE	SCHEMATICS
TEK	4107/4109	70498100	4107/4109 PROGRAM-REF	SCHEMATICS
TEK	4114	REF	TECHNICAL	SCHEMATICS IPB THEORY VOL 1
TEK	4114	061-2489-00	OPERATOR	SCHEMATICS IPB THEORY VOL 2
TEK	4114A/4116A	REF	SERVICE VOL 2	SCHEMATICS IPB THEORY VOLUME 1
TEK	4114B 4116B	070-4713-00	SERVICE	SCHEMATICS IPB THEORY VOLUME 2
TEK	4110 SERIES	070-3814-00	SERVICE	SCHEMATICS UPDATE
TEK	4025	070-2401-02	SERVICE	SCHEMATICS-PARTS BREAK DOWN
TEK	555	N/A	N/A	SCOPE
TEK	556	N/A	TECHNICAL	SCOPE
TEK	2213	N/A	N/A	SCOPE
TEK	4957	REF	N/A	SCOPE
TEK	1S1	N/A	K	SCOPE
TEK	2B67	N/A	TECHNICAL	SCOPE
TEK	4510 SERIES	070-5042-02	N/A	SCOPE
TEK	453/R453	N/A	TECHNICAL	SCOPE
TEK	475/DM40/DM43	070-1739-01	SERVICE	SCOPE
TEK	502A	N/A	N/A	SCOPE
TEK	545A	N/A	N/A	SCOPE
TEK	7603/R7603	070-1429-00	N/A	SCOPE
TEK	7623/R7623	N/A	TECHNICAL	SCOPE
TEK	R116	N/A	OPERATOR	SCOPE
TEK	MR-501	N/A	SERVICE	SCOPE PROBE
TEK	454	070-1074-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	834	070-3400-01	OPERATOR	SEE TEKTRONIX MICROFICHE FILE
TEK	834	070-3400-02	OPERATOR	SEE TEKTRONIX MICROFICHE FILE
TEK	4015	070-1649-00	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4051	REF	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4105	070-4689-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4111	070-5683-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4113	640-0532-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4114	061-2564-00	SERVICE VOL 1	SEE TEKTRONIX MICROFICHE FILE
TEK	4170	061-2880-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4205	REF	OPERATOR	SEE TEKTRONIX MICROFICHE FILE
TEK	4610	REF	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4631	070-1830-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4631	070-1831-02	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4641	REF	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4684	070-8612-00	MAINTENANCE	SEE TEKTRONIX MICROFICHE FILE
TEK	4692	4692/PI	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4905	REF	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4956	REF	N/A	SEE TEKTRONIX MICROFICHE FILE
TEK	3A72	N/A	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4006-1	REF	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4010 SERIES	070-1379-00	MAINTENANCE	SEE TEKTRONIX MICROFICHE FILE
TEK	4014/15/16 4041	REF	OPERATOR	SEE TEKTRONIX MICROFICHE FILE
TEK	4014/4015	070-2303-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4014/4015 SN1	REF	OPERATOR	SEE TEKTRONIX MICROFICHE FILE
TEK	4014-4015	070-1648-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4024-4025	070-2830-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4025A	070-4167-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4025A	070-4168-00	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4050 SERIES	REF	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4052/4052A	REF	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4054/40545A	REF	INSTALLATION	SEE TEKTRONIX MICROFICHE FILE
TEK	4106/4107/CX	070-4889-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4109/CX	070-4890-01	PROGRAM	SEE TEKTRONIX MICROFICHE FILE
TEK	4114A/4116A	070-4512-00	SERVICE VOL 1	SEE TEKTRONIX MICROFICHE FILE
TEK	4114B 4116B	070-4714-00	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4115B	070-4668-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4115B	070-4663-00	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	4694 SERIES	070-8198-00	TECHNICAL	SEE TEKTRONIX MICROFICHE FILE
TEK	485/R485	N/A	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4925/4926	070-4688-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4953/4954	REF	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4662	070-1932-01	SERVICE	SEE TEKTRONIX MICROFICHE FILE
TEK	4120	070-5275-00	SERVICE	SERIAL KEYBOARD
TEK	4120	070-5276-00	SERVICE	SERIAL KEYBOARD
TEK	4120	070-5276-00	SERVICE	SERIAL KEYBOARD
TEK	4696	070-5851-00	SERVICE	SERVICE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEK	TDS 640A	N/A	N/A	SERVICE
TEK	4632	070-1686-03	OPERATOR	SERVICE HANDBOOK
TEK	GMA302	070-5215-00	SERVICE	SERVICE IPB SCHEMATICS LOGIC
TEK	P6451	062-2372-00	OPERATOR	SERVICE MANUAL
TEK	4698	N/A	SERVICE	SERVICE MANUAL TEK 300/PHASER COLOR PNTR
TEK	4115-B	070-4667-00	SERVICE	SERVICE OPERATOR DIAGNOSTICS
TEK	4693D	MONE	SERVICE	SERVICE SCHEMATICS
TEK	4695	REF	SERVICE	SERVICE/IPB/LOGIC
TEK	4907	REF	SERVICE	SERVICE/IPB/LOGIC
TEK	4114	070-3820-00	TECHNICAL	SERVICE/IPB/LOGIC VOL 1
TEK	4114A/4116A	070-4513-00	SERVICE	SERVICE/IPB/LOGIC VOL 2
TEK	4115/4120	070-5270-00	SERVICE	SETUP-ERROR-ESCAPE
TEK	4110B	061-2899-00	SERVICE	SMART TERMINAL
TEK	4110 SERIES	061-2566-01	OPERATOR	SOFTWARE MANUAL
TEK	021-0194-00	061-1005-00	OPERATOR	SQUARE WAVE GENERATOR
TEK	4632	070-1660-02	SEE TEK 785	STORAGE SCOPE
TEK	4230	070-6647-00	PROGRAM	SUPPLEMENT VT200 3179G TEK ENHANCEMENTS
TEK	46930	46930-18-9	SERVICE	TECHNICAL SPT DATA PHASER COLOR PRINTER
TEK	4025A	REF	SERVICE	TECHNICAL THEORY OF OPERATION
TEK	FG-503	N/A	TECHNICAL	TEK 4111 MONITOR
TEK	4692	062-8432-00	OPERATION	TEK 4692 OR DEQ LCP01 COLOR PRINTER
TEK	4695	070-4645-00	N/A	TEK 4696 COLOR INK JET PTR SERVICE MAN.
TEK	834	070-3399-00	OPERATOR	TEK 834 COMM. TESTER
TEK	4010-1	REF	OPERATOR	TERMINAL
TEK	4014/4014-1	070-1647-00	TECHNICAL	TERMINAL
TEK	4014-15-16	070-2668-01	SERVICE	TERMINAL
TEK	L20-L30	N/A	OPERATOR	TEST EQUIPMENT
TEK	TMS15	070-2020-00	CATALOG	TEST UNIT
TEK	7B53A/N	N/A	TECHNICAL	TIME BASE PLUGIN
TEK	1730	N/A	N/A	TIME MARK GENERATOR
TEK	RM564	N/A	PROGRAMMER	USER
TEK	2430A	070-6286-02	PROGRAM	USER REFERENCE GUIDE
TEK	401X	070-2487-00	SERVICE	VOL 2 SERVICE GUIDE
TEK	4024-4025	070-2831-00	SERVICE	VOL1 THEORY
TEK	4113	061-2618-00	SERVICE	VOLUME 1
TEK	4112	061-2490-00	SERVICE	VOLUME 2
TEK	WR501	070-2168-00	SERVICE	WORD REC. DELAY
TEK	80	N/A	OPERATOR	WORD RECOGNIZER
TEK	VARIOUS	A1A-8253-0	SERVICE	WORD RECOGNIZER
TEK	PHASER 200 & 220	070-869902	N/A	XYZ'S OF O'SCOPE USE
TEK	323	070-0750-00	SERVICE	N/A
TEK	323	N/A	SERVICE	N/A
TEK	335	070-1943-01	OPERATOR	N/A
TEK	335	070-1943-01	N/A	N/A
TEK	475	070-1862-00	N/A	N/A
TEK	834	AX-3915-1	OPERATOR	N/A
TEK	4025	061-1543-01	OPERATOR	N/A
TEK	4025	070-2401-02	TECHNICAL	N/A
TEK	4107	070-4889-00	SERVICE	N/A
TEK	4109	70489000	SERVICE	N/A
TEK	4112	061-2487-00	SERVICE	N/A
TEK	4113	061-2617-00	SERVICE	N/A
TEK	4114	070-3673-00	OPERATOR	N/A
TEK	4114	061-2488-00	SERVICE	N/A
TEK	4114	070-3818-00	SERVICE	N/A
TEK	4114	061-2564-00	SERVICE VOL 2	N/A
TEK	4129	70527501	SERVICE	N/A
TEK	4129	REF	SERVICE	N/A
TEK	4170	061-2819-00	TECHNICAL	N/A
TEK	4207	REF	SERVICE	N/A
TEK	4208	070-6045-00	SERVICE	N/A
TEK	4209	070-6358-00	SERVICE	N/A
TEK	4211	070-7140-00	OPERATOR	N/A
TEK	4211	070-7140-00	PROGRAM	N/A
TEK	4220	070-6646-00	OPERATOR	N/A
TEK	4632	070-1660-01	OPERATOR	N/A
TEK	4632	070-1686-03	OPERATOR	N/A
TEK	4632	070-1686-04	SERVICE MANUAL	N/A
TEK	4662	070-1933-00	SERVICE	N/A
TEK	4691	REF	SERVICE	N/A
TEK	4692	070-4815-01	SERVICE	N/A
TEK	4692	301/948-6343	SERVICE	N/A
TEK	4693	070-6484-00	ADJUSTMENT	N/A
TEK	4693	4693D-18-9	SERVICE	N/A
TEK	4014/4015	040-0819-01	SERVICE	N/A
TEK	4014/4015	070-1648-00	SERVICE	N/A
TEK	4014/4015 SN2	REF	SERVICE	N/A
TEK	4024/4025	REF	OPERATOR	N/A
TEK	4100F19-4690	070-5199-01	TECHNICAL	N/A
TEK	4106/4107	070-4889-01	4106 AND NEW 4107	N/A
TEK	4111/CX 4111	070-5644-01	SERVICE	N/A
TEK	4113 DISPLAY	070-4275-00	SERVICE	N/A
TEK	4115/4120	070-5290-00	OPERATORS	N/A
TEK	4115/4120	070-5270-00	SERVICE	N/A
TEK	4115B	REF	SERVICE	N/A
TEK	421X	070-7139-01	OPERATOR	N/A
TEK	453A/R453A	N/A	SERVICE	N/A
TEK	466/464	070-1652-00	SERVICE	N/A
TEK	4693 SERIES	070-6484-00	TECHNICAL	N/A
TEK	4699PX	PHASER 300	OPERATOR	N/A
TEK	B	N/A	OPERATOR	N/A
TEK	Z	N/A	X	N/A
TEKTRONIX	TU1/TU2	N/A	X	1 INFO SHEET
TEKTRONIX	2252	N/A	X	1 MAN ON TOP
TEKTRONIX	2901	N/A	K	1 MANUAL
TEKTRONIX	1A1 PLUG-IN	N/A	K	1 MANUAL
TEKTRONIX	1A2 PLUG-IN	N/A	K	1 MANUAL

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	1A7 PLUG-IN	N/A	K	1 MANUAL
TEKTRONIX	1L5 PLUG-IN	N/A	K	1 MANUAL
TEKTRONIX	2A60 PLUG-IN	N/A	K	1 MANUAL
TEKTRONIX	3A10	N/A	K	1 MANUAL
TEKTRONIX	P6014	N/A	N/A	1 MANUAL
TEKTRONIX	P6054	N/A	X	1 MANUAL
TEKTRONIX	P6062A	N/A	X	1 MANUAL
TEKTRONIX	P6062B	N/A	X	1 MANUAL
TEKTRONIX	PG502	N/A	X	1 MANUAL
TEKTRONIX	PG506	N/A	N/A	1 MANUAL
TEKTRONIX	PS 501-1/2	N/A	N/A	1 MANUAL
TEKTRONIX	PS280 PS283	N/A	K	1 MANUAL
TEKTRONIX	R 564B	N/A	K	1 MANUAL
TEKTRONIX	R PLUG-IN	N/A	K	1 MANUAL
TEKTRONIX	R740BN	N/A	K	1 MANUAL
TEKTRONIX	R7903	N/A	K	1 MANUAL
TEKTRONIX	RG-501	N/A	K	1 MANUAL
TEKTRONIX	RM15	N/A	K	1 MANUAL
TEKTRONIX	RM17	N/A	K	1 MANUAL
TEKTRONIX	RM35A	N/A	K	1 MANUAL
TEKTRONIX	RM504	N/A	K	1 MANUAL
TEKTRONIX	RM527	N/A	K	1 MANUAL
TEKTRONIX	RM544	N/A	K	1 MANUAL
TEKTRONIX	RM561A	N/A	K	1 MANUAL
TEKTRONIX	RM564	N/A	K	1 MANUAL
TEKTRONIX	RM565	N/A	K	1 MANUAL
TEKTRONIX	RM567	N/A	K	1 MANUAL
TEKTRONIX	RM585A	N/A	K	1 MANUAL
TEKTRONIX	RM647	N/A	K	1 MANUAL
TEKTRONIX	S-4	N/A	K	1 MANUAL
TEKTRONIX	S-6	N/A	K	1 MANUAL
TEKTRONIX	SC 502	N/A	K	1 MANUAL
TEKTRONIX	SG 503	N/A	N/A	1 MANUAL
TEKTRONIX	TU5	N/A	E	1 MANUAL
TEKTRONIX	Z	N/A	OPERATING AND SERVICE INSTRUCTIONS	1 MANUAL
TEKTRONIX	S-51	N/A	K	1 MICROFICHE
TEKTRONIX	S-52	N/A	K	1 MICROFICHE
TEKTRONIX	S-53	N/A	K	1 MICROFICHE MANUAL
TEKTRONIX	335	N/A	K	1 OPERATORS 1 SERVICE
TEKTRONIX	7623	N/A	K	1 OPERATORS & 1 SERVICE
TEKTRONIX	7612D	N/A	K	1 OPERATORS & 1 SERVICE
TEKTRONIX	7704A	N/A	K	1 OPERATORS & 1 SERVICE
TEKTRONIX	7D11	N/A	F	1 SERVICE/1 OPERATORS
TEKTRONIX	CG 501/5011	N/A	K	1 SET OF 2 VOLUMES
TEKTRONIX	184	N/A	X	2 COPIES
TEKTRONIX	2205	N/A	K	2 COPIES
TEKTRONIX	120B	N/A	X	2 COPIES
TEKTRONIX	1502B	N/A	INSTRUCTION MANUAL	2 COPIES
TEKTRONIX	180A	N/A	X	2 COPIES
TEKTRONIX	7A16	N/A	K	2 COPIES
TEKTRONIX	067-0587-00	N/A	X	2 EA.
TEKTRONIX	81	N/A	K	2 MANUALS
TEKTRONIX	106	N/A	K	2 MANUALS
TEKTRONIX	067-0680-00	N/A	X	2 MANUALS
TEKTRONIX	10A1	N/A	X	2 MANUALS
TEKTRONIX	1A4 PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	1A5 PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	1L10 PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	1L20 PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	1M1 PLUG-IN	N/A	N/A	2 MANUALS
TEKTRONIX	390AD	N/A	K	2 MANUALS
TEKTRONIX	3B2	N/A	K	2 MANUALS
TEKTRONIX	3C66	N/A	K	2 MANUALS
TEKTRONIX	3S1	N/A	K	2 MANUALS
TEKTRONIX	3S3	N/A	K	2 MANUALS
TEKTRONIX	3S76	N/A	K	2 MANUALS
TEKTRONIX	422/R422	N/A	K	2 MANUALS
TEKTRONIX	53/54B	N/A	K	2 MANUALS
TEKTRONIX	53/54D	N/A	K	2 MANUALS
TEKTRONIX	5A15N	N/A	K	2 MANUALS
TEKTRONIX	5B13N	N/A	K	2 MANUALS
TEKTRONIX	5B31	N/A	K	2 MANUALS
TEKTRONIX	684A	N/A	K	2 MANUALS
TEKTRONIX	7B70	N/A	K	2 MANUALS
TEKTRONIX	7B71	N/A	K	2 MANUALS
TEKTRONIX	81A	N/A	K	2 MANUALS
TEKTRONIX	P6046	N/A	X	2 MANUALS
TEKTRONIX	PLOT 50	N/A	X	2 MANUALS
TEKTRONIX	Q PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	R 556	N/A	X	2 MANUALS
TEKTRONIX	R7704	N/A	X	2 MANUALS
TEKTRONIX	RM33/33X	N/A	K	2 MANUALS
TEKTRONIX	RM503	N/A	K	2 MANUALS
TEKTRONIX	RM545B	N/A	K	2 MANUALS
TEKTRONIX	S PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	SC 501	N/A	K	2 MANUALS
TEKTRONIX	SC 503	N/A	X	2 MANUALS
TEKTRONIX	SPG-170A	N/A	X	2 MANUALS
TEKTRONIX	T PLUG-IN	N/A	K	2 MANUALS
TEKTRONIX	T921 922 922R	N/A	K	2 MANUALS
TEKTRONIX	T921 T922/R	N/A	N/A	2 MANUALS
TEKTRONIX	TEK PROBES	N/A	N/A	2 MANUALS
TEKTRONIX	TMS006A	N/A	X	2 MANUALS
TEKTRONIX	TM-502A	N/A	N/A	2 MANUALS
TEKTRONIX	TSG-370	N/A	X	2 MANUALS
TEKTRONIX	84	N/A	N/A	2 MANUALS & 1 ON TOP
TEKTRONIX	11A72	N/A	K	2 MANUALS & 1 ON TOP

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	5A14N	N/A	E	2 MANUALS & 1 ON TOP
TEKTRONIX	5A19N	N/A	N/A	2 MANUALS & 1 ON TOP
TEKTRONIX	4115/4120	N/A	K	2 MANUALS (1 EACH)
TEKTRONIX	314	N/A	K	2 MANUALS (ONE IS PRELIMINARY)
TEKTRONIX	7633	N/A	K	2 OPERATORS & 1 SERVICE
TEKTRONIX	2232	N/A	K	2 OPERATORS & 4 SERVICE & 3 ON TOP
TEKTRONIX	7623A	N/A	K	2 SERVICE & 1 OPERATORS
TEKTRONIX	121	N/A	N/A	3 COPIES
TEKTRONIX	131	N/A	X	3 COPIES
TEKTRONIX	181	N/A	X	3 COPIES
TEKTRONIX	1780R	N/A	X	3 COPIES
TEKTRONIX	201-1	N/A	K	3 COPIES
TEKTRONIX	202-2	N/A	K	3 COPIES
TEKTRONIX	321	N/A	N/A	3 MANUALS
TEKTRONIX	323	N/A	K	3 MANUALS
TEKTRONIX	31/53	N/A	K	3 MANUALS
TEKTRONIX	310/310A	N/A	K	3 MANUALS
TEKTRONIX	3A2 PLUG-IN	N/A	K	3 MANUALS
TEKTRONIX	3A8	N/A	K	3 MANUALS
TEKTRONIX	3B3	N/A	K	3 MANUALS
TEKTRONIX	5A22N	N/A	N/A	3 MANUALS
TEKTRONIX	7A14	N/A	N/A	3 MANUALS
TEKTRONIX	7A18/7A18N	N/A	X-K	3 MANUALS
TEKTRONIX	7511	N/A	K	3 MANUALS
TEKTRONIX	PG501	N/A	X	3 MANUALS
TEKTRONIX	RM547	N/A	K	3 MANUALS
TEKTRONIX	SC 504	N/A	X	3 MANUALS
TEKTRONIX	7A16A	N/A	K	3 MANUALS & 4 ON TOP
TEKTRONIX	2465	N/A	N/A	3 ON TOP
TEKTRONIX	7514	N/A	N/A	3 OPERATORS & 3 SERVICE
TEKTRONIX	7D01	N/A	K	3 SERVICE/1 OPERATORS
TEKTRONIX	213	N/A	N/A	4 COPIES
TEKTRONIX	1241	N/A	X	4 COPIES
TEKTRONIX	317	N/A	K	4 MANUALS
TEKTRONIX	2A63 PLUG-IN	N/A	N/A	4 MANUALS
TEKTRONIX	3A72	N/A	K	4 MANUALS
TEKTRONIX	7A22	N/A	K	4 MANUALS
TEKTRONIX	7A24	N/A	N/A	4 MANUALS
TEKTRONIX	7B53A/7B53AN	N/A	K	4 MANUALS
TEKTRONIX	PG505	N/A	X	4 MANUALS
TEKTRONIX	SG 502	N/A	X	4 MANUALS
TEKTRONIX	TM506A	N/A	N/A	4 MANUALS
TEKTRONIX	W	N/A	N/A	4 MANUALS
TEKTRONIX	453 SERIES	N/A	K	4 MANUALS & 2 ON TOP
TEKTRONIX	211	N/A	N/A	5 COPIES
TEKTRONIX	190A/190B	N/A	K	5 COPIES
TEKTRONIX	326	N/A	K	5 MANUALS
TEKTRONIX	434	N/A	K	5 MANUALS
TEKTRONIX	2A61 PLUG-IN	N/A	K	5 MANUALS
TEKTRONIX	7A12	N/A	K	5 MANUALS
TEKTRONIX	TM501	N/A	X	5 MANUALS
TEKTRONIX	TM503	N/A	N/A	5 MANUALS
TEKTRONIX	191	N/A	K	6 MANUALS
TEKTRONIX	1A6 PLUG-IN	N/A	K	6 MANUALS
TEKTRONIX	7B50A	N/A	K	6 MANUALS & 1 ON TOP
TEKTRONIX	7854	N/A	N/A	6 SERVICE & 4 OPERATORS
TEKTRONIX	7B87	N/A	N/A	6 SERVICE/3 OPERATORS
TEKTRONIX	DM501	N/A	E	CALIBRATION SHEET
TEKTRONIX	BM40/43	N/A	K	CAMERA ON TOP
TEKTRONIX	C-12	N/A	V	CAMERA ON TOP
TEKTRONIX	C50	N/A	K	CAMERA ON TOP
TEKTRONIX	TSG-300	N/A	K	COMPONENT/NTSC TELEVISION GENERATOR
TEKTRONIX	T932/T935A	N/A	N/A	FICHE T930 SERIES
TEKTRONIX	PHASER III PXI	N/A	X	FIELD SERVICE MANUAL
TEKTRONIX	212	N/A	K	INSTRUCTION
TEKTRONIX	B	N/A	K	INSTRUCTION
TEKTRONIX	CG5001/CG551AP	N/A	X	INSTRUCTION
TEKTRONIX	DM501	N/A	E	INSTRUCTION
TEKTRONIX	DM501A	N/A	E	INSTRUCTION
TEKTRONIX	DM502A	N/A	X	INSTRUCTION
TEKTRONIX	P6010	N/A	K	INSTRUCTION
TEKTRONIX	P6063B	N/A	N/A	INSTRUCTION
TEKTRONIX	TU7	N/A	K	INSTRUCTION
TEKTRONIX	WFM300A	N/A	E	INSTRUCTION
TEKTRONIX	Z	N/A	K	INSTRUCTION
TEKTRONIX	524	N/A	K	INSTRUCTION MANUAL
TEKTRONIX	5A48	N/A	K	INSTRUCTION MANUAL
TEKTRONIX	760N	N/A	K	INSTRUCTION MANUAL
TEKTRONIX	7A15A/AN	N/A	X-K	INSTRUCTION MANUAL
TEKTRONIX	7B15	N/A	K	INSTRUCTION MANUAL
TEKTRONIX	SPG 422	N/A	X	INSTRUCTION MANUAL
TEKTRONIX	TM5006	N/A	X	INSTRUCTION/SERVICE
TEKTRONIX	602 603 604	N/A	SERVICE	INSTRUCTION/SERVICE MONITOR W/ OPTIONS
TEKTRONIX	1720-SERIES	N/A	K	INSTRUCTION/SERVICE MANUAL
TEKTRONIX	TM506/RTM506	N/A	V	INSTRUCTION/SERVICE MANUAL
TEKTRONIX	110	N/A	K	INSTRUCTIONS MANUAL
TEKTRONIX	5111	N/A	K	INSTRUCTIONS MANUAL
TEKTRONIX	5A14N	N/A	K	INSTRUCTIONS MANUAL
TEKTRONIX	86	N/A	X	INSTRUCTIONS/LOCATED WITH THS SERIES MANUAL
TEKTRONIX	214	N/A	N/A	M00866/OSCILLOSCOPE STORAGE
TEKTRONIX	2465	N/A	N/A	M00867/OSCILLOSCOPE
TEKTRONIX	2465	N/A	K	M00868/OSCILLOSCOPE
TEKTRONIX	485	N/A	N/A	M00901/OSCILLOSCOPE
TEKTRONIX	2465	N/A	X	M00902/OSCILLOSCOPE
TEKTRONIX	2455B	N/A	N/A	M00903/OSCILLOSCOPE
TEKTRONIX	475A	N/A	N/A	M00905/OSCILLOSCOPE & MULTIMETER
TEKTRONIX	475A/DM44	N/A	K	M00907/OSCILLOSCOPE

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	2465	N/A	N/A	M00908/OSCILLOSCOPE
TEKTRONIX	177	N/A	X	MAINTENANCE PRELIMINARY
TEKTRONIX	556	N/A	K	MICROFICHE
TEKTRONIX	290	N/A	K	ON TOP
TEKTRONIX	464	N/A	K	OP
TEKTRONIX	Z PLUG-IN	N/A	SERVICE REV 11/81	OPERATING AND SERVICE INSTRUCTIONS
TEKTRONIX	606A	N/A	K	OPERATION AND SERVICE MANUAL
TEKTRONIX	7904	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	321A	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	7A26	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	7B92	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	7CT1N	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	DF1	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	P6021	N/A	K	OPERATION SERVICE MANUAL
TEKTRONIX	P6430	N/A	X	OPERATION SERVICE MANUAL
TEKTRONIX	T932A/935A	N/A	N/A	OPERATION/SERVICE IN SAME FILE AS T932A
TEKTRONIX	149	N/A	K	OPERATIONAL MANUAL
TEKTRONIX	224	N/A	SERVICE	OPERATIONS MANUAL
TEKTRONIX	THS720A	N/A	X	OPERATIONS MANUAL
TEKTRONIX	A6902A	N/A	SERVICE	OPERATOR
TEKTRONIX	214	N/A	N/A	OPERATORS
TEKTRONIX	2335	N/A	K	OPERATOR'S MANUAL
TEKTRONIX	2465B/2467B	N/A	X	OPERATOR'S MANUAL
TEKTRONIX	2466A	N/A	E	OPERATOR'S MANUAL
TEKTRONIX	305 DMM	N/A	X	OPERATOR'S MANUAL
TEKTRONIX	PS 503A	N/A	X	OPERATOR'S MANUAL
TEKTRONIX	2465	N/A	N/A	OPTIONS SERVICE MANUAL
TEKTRONIX	7B85	N/A	K	PLUS 1 ON TOP
TEKTRONIX	2B67 PLUG-IN	N/A	N/A	PRISM 32GPX/SERVICE MANUAL
TEKTRONIX	3001GPX	N/A	K	PRISM 32GPX/SERVICE MANUAL
TEKTRONIX	1121	N/A	N/A	PROCEDURE MANUAL
TEKTRONIX	11A34	N/A	N/A	PROCEDURE MANUAL
TEKTRONIX	T935A	N/A	N/A	PROGRAMMER MANUAL
TEKTRONIX	TDS 460	N/A	N/A	PROGRAMMER MANUAL
TEKTRONIX	TDS 544A	N/A	N/A	PROGRAMMER MANUAL
TEKTRONIX	TDS 640A	N/A	N/A	PROGRAMMER MANUAL
TEKTRONIX	TDS 640A	N/A	N/A	PROGRAMMER MANUAL
TEKTRONIX	TDS 520 & 540	N/A	N/A	PROGRAMMERS MANUAL
TEKTRONIX	TDS 524A	N/A	N/A	PROGRAMMERS MANUAL
TEKTRONIX	TDS 540A	N/A	N/A	PROGRAMMERS MANUAL
TEKTRONIX	TDS 544A	N/A	N/A	PROGRAMMERS MANUAL
TEKTRONIX	114	N/A	N/A	SERVICE
TEKTRONIX	2230	N/A	SERS	SERVICE
TEKTRONIX	2246	N/A	SERVICE	SERVICE
TEKTRONIX	2445	N/A	N/A	SERVICE
TEKTRONIX	2467	N/A	K-X	SERVICE
TEKTRONIX	2445B	N/A	N/A	SERVICE
TEKTRONIX	A6902B	N/A	X	SERVICE
TEKTRONIX	AFG 5101/5501	N/A	N/A	SERVICE
TEKTRONIX	AFG310	N/A	X	SERVICE
TEKTRONIX	2236	N/A	N/A	SERVICE & OPERATIONS MANUAL
TEKTRONIX	67	N/A	K	SERVICE MANUAL
TEKTRONIX	1230	N/A	N/A	SERVICE MANUAL
TEKTRONIX	2232	N/A	K	SERVICE MANUAL
TEKTRONIX	2246	N/A	U	SERVICE MANUAL
TEKTRONIX	7603	N/A	N/A	SERVICE MANUAL
TEKTRONIX	122/125	N/A	N/A	SERVICE MANUAL
TEKTRONIX	2213 & 2215	N/A	N/A	SERVICE MANUAL
TEKTRONIX	2213A	N/A	K	SERVICE MANUAL
TEKTRONIX	2236A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	2245A	N/A	K	SERVICE MANUAL
TEKTRONIX	2247A	N/A	K	SERVICE MANUAL
TEKTRONIX	760A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	760D	N/A	N/A	SERVICE MANUAL
TEKTRONIX	CA	N/A	K	SERVICE MANUAL
TEKTRONIX	SPG 422	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 420	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 420	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 460	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 520A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 520A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 524A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 540A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 620A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 640A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 644A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS 644A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS210	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS3000SERIES	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS684A	N/A	N/A	SERVICE MANUAL
TEKTRONIX	TDS744A	N/A	X	SERVICE MANUAL
TEKTRONIX	TOCS5	N/A	N/A	SERVICE MANUAL
TEKTRONIX	WFM-300	N/A	E	SERVICE MANUAL
TEKTRONIX	1240	N/A	X	SERVICE MANUAL VOL1&2
TEKTRONIX	212	N/A	E	SERVICE ONLY
TEKTRONIX	DM505	N/A	K	SERVICE REFERENCE
TEKTRONIX	647	N/A	K	SERVICE WITH SCHEMATICS
TEKTRONIX	TSG-170A	N/A	INSTRUCTION MANUAL / BINDER	SERVICE/CAL
TEKTRONIX	W PLUG-IN	N/A	N/A	SERVICE/CAL
TEKTRONIX	AF501	N/A	N/A	SERVICE/MAINTENANCE
TEKTRONIX	2430A	N/A	N/A	SERVICE/PARTS
TEKTRONIX	5B10N	N/A	K	TIME BASIC
TEKTRONIX	11A32	N/A	N/A	USER & SERVICE MANUAL
TEKTRONIX	11A34	N/A	K	USER & SERVICE MANUAL
TEKTRONIX	PG508	N/A	N/A	USER MANUAL
TEKTRONIX	TDS 520 & 540	N/A	N/A	USER MANUAL
TEKTRONIX	TDS 620A	N/A	N/A	USER MANUAL



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	TDS 620A	N/A	N/A	USER MANUAL
TEKTRONIX	TDS 644A	N/A	N/A	USER MANUAL
TEKTRONIX	TG501	N/A	N/A	USER MANUAL COVERS THS710A THS720A THS730A & THS720P
TEKTRONIX	4696	N/A	K	USERS MANUAL
TEKTRONIX	SG 504	N/A	N/A	USER'S MANUAL
TEKTRONIX	160	N/A	N/A	VECTORSCOPE
TEKTRONIX	2	N/A	K	N/A
TEKTRONIX	31	N/A	K	N/A
TEKTRONIX	82	N/A	K	N/A
TEKTRONIX	105	N/A	X	N/A
TEKTRONIX	107	N/A	K	N/A
TEKTRONIX	127	N/A	X	N/A
TEKTRONIX	128	N/A	X	N/A
TEKTRONIX	130	N/A	X	N/A
TEKTRONIX	132	N/A	K	N/A
TEKTRONIX	133	N/A	K	N/A
TEKTRONIX	134	N/A	K	N/A
TEKTRONIX	213	N/A	K	N/A
TEKTRONIX	262	N/A	K	N/A
TEKTRONIX	284	N/A	K	N/A
TEKTRONIX	316	N/A	K	N/A
TEKTRONIX	323	N/A	K	N/A
TEKTRONIX	324	N/A	K	N/A
TEKTRONIX	465	N/A	K	N/A
TEKTRONIX	466	N/A	X	N/A
TEKTRONIX	468	N/A	Q	N/A
TEKTRONIX	503	N/A	K	N/A
TEKTRONIX	504	N/A	E	N/A
TEKTRONIX	507	N/A	K	N/A
TEKTRONIX	519	N/A	X K	N/A
TEKTRONIX	528	N/A	K	N/A
TEKTRONIX	532	N/A	K	N/A
TEKTRONIX	536	N/A	K	N/A
TEKTRONIX	541	N/A	K	N/A
TEKTRONIX	541	N/A	K	N/A
TEKTRONIX	546	N/A	K	N/A
TEKTRONIX	547	N/A	K	N/A
TEKTRONIX	549	N/A	K	N/A
TEKTRONIX	551	N/A	K	N/A
TEKTRONIX	555	N/A	K	N/A
TEKTRONIX	561	N/A	K	N/A
TEKTRONIX	564	N/A	K	N/A
TEKTRONIX	565	N/A	K	N/A
TEKTRONIX	575	N/A	K	N/A
TEKTRONIX	576	N/A	K	N/A
TEKTRONIX	608	N/A	K	N/A
TEKTRONIX	611	N/A	K	N/A
TEKTRONIX	613	N/A	SERVICE WITH SCHEMATICS	N/A
TEKTRONIX	821	N/A	K	N/A
TEKTRONIX	1103	N/A	K	N/A
TEKTRONIX	1105	N/A	X	N/A
TEKTRONIX	1106	N/A	K	N/A
TEKTRONIX	2205	N/A	K	N/A
TEKTRONIX	2214	N/A	K	N/A
TEKTRONIX	2440	N/A	SERVIC	N/A
TEKTRONIX	2467	N/A	X	N/A
TEKTRONIX	2701	N/A	X	N/A
TEKTRONIX	4010	N/A	Q	N/A
TEKTRONIX	4023	N/A	X	N/A
TEKTRONIX	4051	N/A	K	N/A
TEKTRONIX	4051	N/A	X	N/A
TEKTRONIX	4051	N/A	X	N/A
TEKTRONIX	4611	N/A	Q	N/A
TEKTRONIX	4631	N/A	K	N/A
TEKTRONIX	4634	N/A	O	N/A
TEKTRONIX	4644	N/A	K	N/A
TEKTRONIX	4662	N/A	X	N/A
TEKTRONIX	4696	N/A	O	N/A
TEKTRONIX	4957	N/A	K	N/A
TEKTRONIX	5403	N/A	K	N/A
TEKTRONIX	5444	N/A	K	N/A
TEKTRONIX	7313	N/A	K	N/A
TEKTRONIX	7834	N/A	K	N/A
TEKTRONIX	7844	N/A	K	N/A
TEKTRONIX	7904	N/A	K	N/A
TEKTRONIX	013-0028-00	N/A	X	N/A
TEKTRONIX	015-0311-01	N/A	Q	N/A
TEKTRONIX	016-0032-00	N/A	Q	N/A
TEKTRONIX	021-0012-00	N/A	X	N/A
TEKTRONIX	021-0135-01	N/A	X	N/A
TEKTRONIX	040-0395-00	N/A	X	N/A
TEKTRONIX	067-0500-00	N/A	X	N/A
TEKTRONIX	067-0502-01	N/A	X	N/A
TEKTRONIX	067-0507-00	N/A	X	N/A
TEKTRONIX	067-0511-00	N/A	X	N/A
TEKTRONIX	067-0523-00	N/A	X	N/A
TEKTRONIX	067-0532-01	N/A	X	N/A
TEKTRONIX	067-0554-00	N/A	X	N/A
TEKTRONIX	067-0559-00	N/A	X-K	N/A
TEKTRONIX	067-0587-02	N/A	X	N/A
TEKTRONIX	067-0616-00	N/A	X	N/A
TEKTRONIX	067-0625-00	N/A	X	N/A
TEKTRONIX	10A2	N/A	N/A	N/A
TEKTRONIX	11301A & 11302A	N/A	X	N/A
TEKTRONIX	11B2	N/A	X	N/A
TEKTRONIX	1S1 PLUG-IN	N/A	K	N/A
TEKTRONIX	200C	N/A	K	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	2215A	N/A	SERVICE	N/A
TEKTRONIX	2432A	N/A	K	N/A
TEKTRONIX	2465A/2467	N/A	X	N/A
TEKTRONIX	3002GPX	N/A	K	N/A
TEKTRONIX	3A1 PLUG-IN	N/A	K	N/A
TEKTRONIX	3A3	N/A	K	N/A
TEKTRONIX	3A6	N/A	K	N/A
TEKTRONIX	3A7	N/A	K	N/A
TEKTRONIX	3A74	N/A	K	N/A
TEKTRONIX	3A75	N/A	K	N/A
TEKTRONIX	3A9	N/A	K	N/A
TEKTRONIX	3B1	N/A	K	N/A
TEKTRONIX	3B4	N/A	K	N/A
TEKTRONIX	3T77	N/A	Q	N/A
TEKTRONIX	3T77A	N/A	Q	N/A
TEKTRONIX	4006-1	N/A	Q	N/A
TEKTRONIX	4014 & 4023	N/A	X	N/A
TEKTRONIX	4115 4120	N/A	K	N/A
TEKTRONIX	454 SERIES	N/A	Q	N/A
TEKTRONIX	455 A2/B2	N/A	Q	N/A
TEKTRONIX	465B	N/A	K	N/A
TEKTRONIX	4661 & 62	N/A	K	N/A
TEKTRONIX	4696 USER'S	N/A	K	N/A
TEKTRONIX	502A/R502A	N/A	K	N/A
TEKTRONIX	5103N	N/A	K	N/A
TEKTRONIX	5103N & D10	N/A	K	N/A
TEKTRONIX	511 A/AD	N/A	K	N/A
TEKTRONIX	5111A	N/A	K	N/A
TEKTRONIX	514 A/AD	N/A	K	N/A
TEKTRONIX	515A	N/A	K	N/A
TEKTRONIX	53/54C	N/A	K	N/A
TEKTRONIX	53/54E	N/A	K	N/A
TEKTRONIX	53/54K	N/A	K	N/A
TEKTRONIX	535/545	N/A	K	N/A
TEKTRONIX	543/A	N/A	K	N/A
TEKTRONIX	561A	N/A	K	N/A
TEKTRONIX	561B	N/A	K	N/A
TEKTRONIX	564B	N/A	K	N/A
TEKTRONIX	577-177-D1&D2	N/A	K	N/A
TEKTRONIX	581A 585A	N/A	K	N/A
TEKTRONIX	5A15N	N/A	K	N/A
TEKTRONIX	5A18N	N/A	K	N/A
TEKTRONIX	5A21N	N/A	K	N/A
TEKTRONIX	5B10N	N/A	K	N/A
TEKTRONIX	5B12N	N/A	K	N/A
TEKTRONIX	5B42	N/A	K	N/A
TEKTRONIX	5B44	N/A	2	N/A
TEKTRONIX	5-INCH	N/A	K	N/A
TEKTRONIX	6R1A	N/A	K	N/A
TEKTRONIX	7A11	N/A	K	N/A
TEKTRONIX	7A13	N/A	K	N/A
TEKTRONIX	7A16A	N/A	K	N/A
TEKTRONIX	7A19	N/A	K	N/A
TEKTRONIX	7A19	N/A	K	N/A
TEKTRONIX	7A26	N/A	INSTRUCTIONMANUAL	N/A
TEKTRONIX	7B53A/ANOP	N/A	K	N/A
TEKTRONIX	7B80	N/A	K	N/A
TEKTRONIX	7D01	N/A	K	N/A
TEKTRONIX	7D12	N/A	SPECS	N/A
TEKTRONIX	7D15	N/A	K	N/A
TEKTRONIX	7D20	N/A	K	N/A
TEKTRONIX	7L12	N/A	K	N/A
TEKTRONIX	A622	N/A	OPERATOR	N/A
TEKTRONIX	A6902B	N/A	SERVICE/MAINTENANCE	N/A
TEKTRONIX	AFG320	N/A	X	N/A
TEKTRONIX	AM501	N/A	X	N/A
TEKTRONIX	AM502	N/A	K	N/A
TEKTRONIX	AM503	N/A	E	N/A
TEKTRONIX	C12	N/A	V	N/A
TEKTRONIX	C19	N/A	K	N/A
TEKTRONIX	C-40	N/A	V	N/A
TEKTRONIX	CG5001/CG55/AP	N/A	E	N/A
TEKTRONIX	CT-2/P6041	N/A	K	N/A
TEKTRONIX	CT-3	N/A	X	N/A
TEKTRONIX	D	N/A	K	N/A
TEKTRONIX	D15-0310-01	N/A	X	N/A
TEKTRONIX	D40	N/A	X	N/A
TEKTRONIX	DC503	N/A	X	N/A
TEKTRONIX	DC504	N/A	X	N/A
TEKTRONIX	DC505A	N/A	K	N/A
TEKTRONIX	DF2	N/A	K	N/A
TEKTRONIX	DF2	N/A	K	N/A
TEKTRONIX	DM43 - DM40	N/A	X	N/A
TEKTRONIX	DM44	N/A	E	N/A
TEKTRONIX	DSA601/602	N/A	X	N/A
TEKTRONIX	E	N/A	X	N/A
TEKTRONIX	FG501	N/A	X	N/A
TEKTRONIX	FG502	N/A	X	N/A
TEKTRONIX	FG503	N/A	K	N/A
TEKTRONIX	FG504	N/A	K	N/A
TEKTRONIX	G	N/A	G	N/A
TEKTRONIX	H	N/A	K	N/A
TEKTRONIX	J16	N/A	K	N/A
TEKTRONIX	K	N/A	K	N/A
TEKTRONIX	L	N/A	K	N/A
TEKTRONIX	L20-L30	N/A	K	N/A
TEKTRONIX	M	N/A	K	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEKTRONIX	M1	N/A	K	N/A
TEKTRONIX	M2	N/A	K	N/A
TEKTRONIX	MR501	N/A	K	N/A
TEKTRONIX	N	N/A	K	N/A
TEKTRONIX	O	N/A	K	N/A
TEKTRONIX	P6000-P6005	N/A	K	N/A
TEKTRONIX	P6006	N/A	K	N/A
TEKTRONIX	P6008	N/A	E	N/A
TEKTRONIX	P6011	N/A	K	N/A
TEKTRONIX	P6011	N/A	K	N/A
TEKTRONIX	P6012	N/A	K	N/A
TEKTRONIX	P6013	N/A	X	N/A
TEKTRONIX	P6022	N/A	K	N/A
TEKTRONIX	P6022	N/A	K	N/A
TEKTRONIX	P6025	N/A	K	N/A
TEKTRONIX	P6027	N/A	K	N/A
TEKTRONIX	P6028	N/A	K	N/A
TEKTRONIX	P6035	N/A	K	N/A
TEKTRONIX	P6042	N/A	X	N/A
TEKTRONIX	P6063A	N/A	E	N/A
TEKTRONIX	P6451	N/A	X	N/A
TEKTRONIX	PHASER III PXI RX	N/A	X	N/A
TEKTRONIX	T-80/P80	N/A	K	N/A
TEKTRONIX	TDS784A	N/A	X	N/A
TEKTRONIX INC.	CATALOG	N/A	INSTRUCTION	DIGITAL MULTIMETER
TEKTRONIX INC.	P6006	N/A	INSTRUCTION MANUAL	OPERATION AND SERVICE MANUAL ON MICROFISCHE
TEKTRONIX INC.	2213	N/A	CATALOG	OSCILLOSCOPE
TEKTRONIX INC.	1740 SERIES	N/A	OPERATORS REV 11/81	OSCILLOSCOPE
TEKTRONIX INC.	DM43-DM40	N/A	N/A	O'SCOPE PROBE
TEKTRONIX INC.	2213	N/A	SERVICE REV 9/75	O'SCOPE/PLUG-IN/ACCESSORIES
TEKTRONIX INC.	1420/1421/1422	N/A	S	NTSC VECTORSCOPE
TEKTRONIX INC.	TSG-100	N/A	X	SCHEMATIC IS PROPRIETARY
TEKTRONIX INC.	520A	N/A	N/A	SERVICE
TELEBYTE	65	N/A	E	N/A
TELEDIAL DEVICES	TD-108P	N/A	D	INSTRUCTION
TELEDYNE	2207/220721	N/A	X	VARIOUS ENCODERS
TELEDYNE	CATALOG	N/A	X	N/A
TELEDYNE	NA 11-500PX	N/A	X	N/A
TELEMET	1003-D1B	N/A	X	N/A
TELEMETRICS INC.	315	N/A	X	N/A
TELEMETRICS INC.	6206	N/A	X	N/A
TELEMETRICS INC.	DPS-6105A	N/A	X	N/A
TELEMETRICS INC.	DPS-6305	N/A	X	N/A
TELEMETRICS INC.	TM8680	N/A	X	N/A
TELETRON IND.	TR2149 TR1782	N/A	X	N/A
TELETYPE	43	N/A	B	N/A
TELETYPE	32 & 33	N/A	B	N/A
TELEVAC	3A	N/A	Q	N/A
TELEVAC	3A-5	N/A	X	N/A
TELEVIDEO SYSTEMS	912/920	N/A	X	N/A
TELONIC IND.	HD-1A	N/A	X	N/A
TELONIC IND.	SM 2000	N/A	D	N/A
TELXON	PTC701/CDM201	N/A	X	DISPLACEMENT TRANSDUCER
TEMPOSONICS	DCM SERIES	N/A	X	2 MANUALS
TENNELEC	TC202/202 BLR	N/A	X	2 MANUALS
TENNELEC	TC203/203 BLR	N/A	X	2 MANUALS
TENNELEC	TC401	N/A	X	2 MANUALS
TENNELEC	TC800	N/A	X	INSTRUCTION
TENNELEC	TC930	N/A	E	INSTRUCTION
TENNELEC	TC952	N/A	B	INSTRUCTION
TENNELEC	TC952	N/A	E	TEST PROCEDURE
TENNELEC	TC252	N/A	X	N/A
TENNELEC	TC590	N/A	E	N/A
TENNELEC	TC911	N/A	X	N/A
TENNELEC	TC911 TC966	N/A	E	N/A
TENNEY	TJR	N/A	R	2 MANUALS
TENNEY	TJR	N/A	X	N/A
TERMIFILEX	HT-1 HT-2	N/A	X	INERTIAL MEASURING INSTRUMENTS
TERRA TECHNOLOGY	CATALOG	N/A	W	N/A
TEST EQUIP CORP	4	N/A	TECHNICAL	DIGITAL MICROMETER
TESTING MACHINES	49-60	N/A	SERVICE	REVISION A
TEX	820	2206552-9701A	SERVICE	ELECTRONIC TERMINAL
TEX	MICRO XL	2569514-0001	X	FIELD SERVICE MANUAL FOR MICROLASER PRO 600
TEX	MICRO MICRO+	255-9877-0001	SERVICE	MICROLASER MAINTENANCE MANUAL
TEX	940	2207864-9701	SERVICE	TECHNICAL / MAINTENANCE
TEX	940	2207861-9701	MAINTENANCE	TERMINAL
TEX	780 SERIES	2265862-9701	OPERATOR	TERMINAL
TEX	743/745	9840259701	SERVICE	TERMINAL SILENT 700
TEX	PRO 600	9784033-0001	X	N/A
TEXAS INST.	6603 & 6901	N/A	X	2 MANUALS
TEXAS INST.	83202-0009A	N/A	1	3 MANUALS
TEXAS INST.	733	N/A	X	N/A
TEXAS INST.	6613	N/A	X	N/A
TEXAS INST.	153868-5A	N/A	X	N/A
TEXAS INST.	154305-1	N/A	X	N/A
TEXAS INST.	FLUSH MOUNT REC.	N/A	1	N/A
TEXAS NUCLEAR CORP.	9178	N/A	E	2 MANUALS
TEXAS NUCLEAR CORP.	9176-9177	N/A	1	2 MANUALS
TEXAS NUCLEAR CORP.	9170-9175	N/A	1	4 MANUALS
TEXAS NUCLEAR CORP.	9185 86 87	N/A	E	CALIBRATION SHEET
TEXMATE	AM-20	N/A	E	CALIBRATION SHEET
TEXMATE	PC-45XAC	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35A	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35A	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35A	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35A	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35U	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35X	N/A	E	CALIBRATION SHEET

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TEXMATE	PM-35X	N/A	E	CALIBRATION SHEET
TEXMATE	PM-35XAC	N/A	E	CALIBRATION SHEET
TEXMATE	PM-45X	N/A	E	CALIBRATION SHEET
TEXMATE	PM-45X	N/A	E	CALIBRATION SHEET
TEXMATE	PM-45X	N/A	E	CALIBRATION SHEET
TEXMATE	PM-45X	N/A	E	CALIBRATION SHEET
TEXMATE	PM-45XBCD	N/A	E	CALIBRATION SHEET
TEXMATE	PS-505/510	N/A	E	CALIBRATION SHEET
TEXMATE	RP-3500	N/A	E	CALIBRATION SHEET
TEXMATE	CM-35X	N/A	E	SPECIFICATION SHEET
TEXMATE	PC-45	N/A	E	SPECIFICATION SHEET
TEXMATE	PC-45X	N/A	E	SPECIFICATION SHEET
TEXMATE	PM-45X	N/A	E	SPECIFICATION SHEET
TEXMATE	PM-45XBCD	N/A	E	SPECIFICATION SHEET
TEXMATE	RP-4500D	N/A	K	SPECIFICATIONS SHEET
TEXMATE	TM-150XAC	N/A	K	N/A
TEXTRONIX	575/1175	N/A	K	ALSO 651 652 655
TEXTRONIX	650	N/A	K	N/A
TEXTRONIX	670	N/A	X	N/A
TEXTRONIX	1480	N/A	K	N/A
TEXTRONIX	149A	N/A	K	N/A
TEXTRONIX	3A74	N/A	K	N/A
TEXTRONIX	520A	N/A	K	N/A
TEXTRONIX	DM-40/DM-43	N/A	X	N/A
TFT	739	N/A	E	N/A
THERMO ELECTRO	80 362 3 4 5	N/A	E	INSTRUCTION
THERMO SYSTEMS	1047	N/A	X	INFORMATION
THERMO SYSTEMS	1010	N/A	X	INSTRUCTION
THERMO SYSTEMS	1050	N/A	E	INSTRUCTION
THERMO SYSTEMS	1050	N/A	E	INSTRUCTION
THERMO SYSTEMS	1050	N/A	E	INSTRUCTION
THERMO SYSTEMS	1052	N/A	X	INSTRUCTION
THERMO SYSTEMS	1063	N/A	E	INSTRUCTION
THERMO SYSTEMS	1063	N/A	E	INSTRUCTION
THERMO SYSTEMS	1072	N/A	E	INSTRUCTION
THERMO SYSTEMS	1072	N/A	E	INSTRUCTION
THERMO SYSTEMS	1076	N/A	E	INSTRUCTION
THERMO SYSTEMS	1076	N/A	X	INSTRUCTION
THERMO SYSTEMS	1094	N/A	N/A	INSTRUCTION
THERMO SYSTEMS	1750/1755	N/A	N/A	SPEC. SHEET WITH INSTRUCTIONS.
THERMO SYSTEMS	1015	N/A	E	N/A
THERMO SYSTEMS	1050	N/A	E	N/A
THERMO SYSTEMS	1080	N/A	E	N/A
THERMO SYSTEMS	1054A/B	N/A	E	N/A
THORLABS INC.	CR-200	N/A	SEE MMM 710	SCHEMATICS
THORLABS INC.	CR-200	N/A	SERVICE	SPEC. SHEET WITH INSTRUCTIONS.
THS	U375M	31868	APP NOTE	DCD1
THT	7020A	REF	OPER/SERV (2 EA)	PRECISE HUMIDITY GENERATION: AN AUTOMATED APPROACH
THUNDER SCIENTIFIC CORP.	8500 SERIES	N/A	X	CALIBRATION PROCEDURE
THUNDER SCIENTIFIC CORP.	8500 SERIES	N/A	E	HUMIDITY GENERATOR AUTOMATED TWO-PRESSURE
THWING-ALBERT	3700SD	N/A	X	N/A
THWING-ALBERT	SENT. 3700 SA-SE	N/A	E	N/A
T-HYDRONICS	TH-1	N/A	B	N/A
T-HYDRONICS	TH-2	N/A	B	N/A
T-HYDRONICS	TH-2V3	N/A	B	N/A
T-HYDRONICS	TH-DV3	N/A	B	N/A
TIC CORP.	2000 BAR	N/A	X	INSTRUCTION
TIDEWATER TECH	7329	N/A	F	N/A
TIDEWATER TECH	OPB III	N/A	X	N/A
TIME SYSTEMS CORP.	410	N/A	N/A	N/A
TOBIAS ASSOC.	PCT	N/A	X	N/A
TOKYO OPTICAL CO.	54A	N/A	X	N/A
TOMLINSON RESEARCH	2000AEC 2011AEC	N/A	X	2 MANUALS
TOMLINSON RESEARCH	1624	N/A	X	3 MANUALS
TOMLINSON RESEARCH	2000AEC	N/A	X	SUPPLEMENTAL DRAWINGS
TOMLINSON RESEARCH	2011AEC 2030AEC	N/A	X	N/A
TOPAZ	250 SERIES	N/A	X	2 MANUALS
TOPAZ	500 SERIES	N/A	N/A	INSTALLATION SHEET
TOPAZ	9100 SERIES	N/A	X	SERVICE MANUAL
TOPEI	1582A1	N/A	SERVICE	N/A
TORR VACUUM PRD.	T-11A	N/A	SERVICE	SERVICE TECHNICAL IPB SCHEMATICS
TOS	T3100	T310-5000	Q-X	N/A
TOSHIBA	P321SL/P341SL	N/A	X	OWNERS MANUAL
TPL COMMUNICATIONS	PA3-1AC-SSR	N/A	X	2 MANUALS
TRACERLAB	MM-6B	N/A	X	N/A
TRACERLAB	MP-1	N/A	X	N/A
TRACERLAB	RMI-110	N/A	X	N/A
TRACERLAB	RMI-110SC	N/A	X	N/A
TRACERLAB	SC-84	N/A	X	N/A
TRACERLAB	SU-20 -21 -22	N/A	X	N/A
TRACERLAB	TA-61 62 63	N/A	X	N/A
TRACERLAB	TA-64 TA-65	N/A	X	N/A
TRACERLAB	TGC-2/1B84	N/A	X	N/A
TRACOR INSTRUMENTS	527A	N/A	X	NO SCHEM. OPERATION ONLY
TRACOR INSTRUMENTS	RA400	N/A	X	N/A
TRACOR NORTHERN	TN-1500	N/A	X	2 MANUALS
TRACOR NORTHERN	NS-700	N/A	X	N/A
TRANS ELECTRONICS	RS&317A RR-317A	N/A	D	N/A
TRANS. DEVICES INC.	DLR 50-15-150A	N/A	E	N/A
TRANSDUCERS INC.	FMS-3-100K	N/A	F	INSTRUCTION
TRANSIAC	1020	N/A	F	3 MANUALS
TRANSISTOR SPEC.	500 SERIES	N/A	N/A	INSTRUCTION
TRANSISTOR SPEC.	361/361R	N/A	E	N/A
TRANSMATION	1080	N/A	N/A	OPERATIONS & SERVICE MANUAL
TRANSMATION INC.	210A/220A SERIES	N/A	N/A	OPERATOR'S
TRANS-SONICS	120 SERIES	N/A	X	VARIOUS TRANSDUCERS
TRANS-TEK	CATALOG	N/A	X	1 MANUAL EACH IN ONE FOLDER

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
TREK	50/750	N/A	N/A	OPERATOR/CALIBRATION
TREK INC	10/10B	N/A	N/A	CALIBRATION PROCEDURE
TREK INC	0.000609	N/A	X	CALIBRATION/SCHEMATICS
TREK INC	P0674	N/A	F	N/A
TRI-COM	423	N/A	E	N/A
TRI-COM	401/402-31-32	N/A	X	N/A
TRIG-TEK	620B	N/A	X	1 COPY (MANUAL)
TRIG-TEK	311	N/A	N/A	INSTRUCTION
TRIG-TEK	401A	N/A	X	SERVICE
TRIMETRICS CORP.	4000	N/A	X	N/A
TRIO LABORATORIES	308	N/A	E	CENTRIFUGE
TRIO LABORATORIES	120	N/A	R	N/A
TRIO-TECH	C-338-6	N/A	E	INSTRUCTION
TRIPLE H	60	N/A	E	INSTRUCTION
TRIPLE H	60	N/A	E	INSTRUCTION
TRIPLE H	603	N/A	E	INSTRUCTION
TRIPLE H	650	N/A	X	INSTRUCTION
TRIPLE H	8035	N/A	X	N/A
TRIPLET	630 APL	N/A	X	VOM PEN TYPE
TRIPLET	3490A	N/A	X	N/A
TRIPLET	60T & 2590	N/A	OPER/SERV	N/A
TRIPLETT CORP	3525	N/A	N/A	HOOK-UP
TRIPP LITE	LC1200 & LC1800	N/A	N/A	OPERATING INSTRUCTIONS
TRIPPLITE	LC-1800	N/A	X	OPERATING INSTRUCTIONS
TRIPPLITE	LC-2400	N/A	F	N/A
TROPEZ	CL100 & 249	N/A	X	N/A
TRUE TIME INST.	60TLC & 863	N/A	X	N/A
TRW INSTRUMENTS	46A	N/A	X	3 COPIES
TRW INSTRUMENTS	431	N/A	X	N/A
TRW INSTRUMENTS	2A	N/A	X	N/A
TRW INSTRUMENTS	43A	N/A	X	N/A
TRYGON	HR20-10A-OVX	N/A	X	2
TRYGON	EAL20-500	N/A	N/A	2 COPIES
TRYGON	HR40-7.5B	N/A	X	2 COPIES
TRYGON	M15-50A	N/A	X	2 COPIES
TRYGON	M160-5AOV	N/A	X	2 COPIES
TRYGON	M36-15A	N/A	X	2 COPIES
TRYGON	MS15-10.OV5356	N/A	X	2 COPIES
TRYGON	RS160-3A	N/A	N/A	2 COPIES
TRYGON	S300-200	N/A	X	2 COPIES
TRYGON	SH40-1.5A	N/A	X	2 COPIES
TRYGON	SR36-25	N/A	X	2 COPIES
TRYGON	T50-750	N/A	X	2 COPIES
TRYGON	HR20-5B	N/A	X	3 COPIES
TRYGON	HR40-5A	N/A	N/A	3 COPIES
TRYGON	HR40-750	N/A	X	3 COPIES
TRYGON	M8C-25055959	N/A	X	3 COPIES
TRYGON	HH32-1.5	N/A	X	33K1-4-25-1
TRYGON	HR40-5A	N/A	X	4 COPIES
TRYGON	HR60-2.5V	N/A	X	4 COPIES
TRYGON	MS36-50V358	N/A	X	4 COPIES
TRYGON	MS36-20 ANOV	N/A	X	6 COPIES
TRYGON	M7C160-15	N/A	X	DESCRIPTION
TRYGON	TP2C15D-1.8	N/A	E	INSTRUCTION
TRYGON	SH20-3A	N/A	X	POWER SUPPLY
TRYGON	DPS 50-100	N/A	N/A	POWER SUPPLYS; EAL10-1 20-500 32-300 50-250
TRYGON	HR40-5B	N/A	X	PWR. SUPPLY
TRYGON	RS320-1.5	N/A	X	PWR. SUPPLY
TRYGON	EAL SERIES	N/A	X	SERVICE MANUAL
TRYGON	1972/73 CATALOG	N/A	X	N/A
TRYGON	DL 40-1	N/A	USER/SERVICE	N/A
TRYGON	HH50-1	N/A	X	N/A
TRYGON	HH7-4	N/A	X	N/A
TRYGON	HHB SERIES	N/A	X	N/A
TRYGON	HR160-2B	N/A	X	N/A
TRYGON	HR20-10A	N/A	X	N/A
TRYGON	HR20-10B	N/A	X	N/A
TRYGON	HR20-10BOV	N/A	X	N/A
TRYGON	HR40-500	N/A	X	N/A
TRYGON	HR60-5B	N/A	X	N/A
TRYGON	LSR28-30NMOV	N/A	X	N/A
TRYGON	M36-30A	N/A	X	N/A
TRYGON	M36-50VS449	N/A	X	N/A
TRYGON	M5P36-15	N/A	X	N/A
TRYGON	M5P60-10	N/A	X	N/A
TRYGON	MS15-50VS355	N/A	X	N/A
TRYGON	PS SERIES	N/A	X	N/A
TRYGON	PS12-900F	N/A	X	N/A
TRYGON	PS32-1.25	N/A	X	N/A
TRYGON	PS6-1FOV	N/A	X	N/A
TRYGON	RS320-1.5B	N/A	X	N/A
TRYGON	RS36-15	N/A	X	N/A
TRYGON	RS40-5	N/A	X	N/A
TRYGON	S60-10	N/A	N/A	N/A
TRYGON	SHR40-1.5A	N/A	X	N/A
TRYGON	SR36-1SOS1385	N/A	X	N/A
TRYGON	T50-2	N/A	X	N/A
TRYGON	TL 8-3	N/A	X	N/A
TRYGON	TP2C OV	N/A	E	N/A
TRYMETRICS	4000	N/A	E	INSTRUCTION
TRYMETRICS	4100/4100P	N/A	E	TECHNICAL MANUAL
TRYODYNE	7500-0003	N/A	X	1 INST. MANUAL
TRYODYNE	7500-0003	N/A	X	TECHNICAL MANUAL
TSI	1072	N/A	I	1 INST. MANUAL
TSI	361	N/A	TECHNICAL	INSTRUCTION
TSI	1988	N/A	I	INSTRUCTION MANUAL FOR 1990C 1994C 1995B 1992 & 1988 COUNTER TYPE SIGNAL PROCESSOR SYSTEM

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TSI	1992	N/A	I	INSTRUCTION MANUAL FOR 1990C 1994C 1995B 1992 & 1988 COUNTER TYPE SIGNAL PROCESSOR SYSTEM
TSI	1090W/1090	N/A	I	INSTRUCTION MANUAL FOR 1990C 1994C 1995B 1992 & 1988 COUNTER TYPE SIGNAL PROCESSOR SYSTEM
TSI	1990C	N/A	I	INSTRUCTION MANUAL FOR 1990C 1994C 1995B 1992 & 1988 COUNTER TYPE SIGNAL PROCESSOR SYSTEM
TSI	1994C	N/A	X	INSTRUCTION MANUAL FOR 1990C 1994C 1995B 1992 & 1988 COUNTER TYPE SIGNAL PROCESSOR SYSTEM
TSI	3760	N/A	SCHEMATICS/IPB	OPERATOR/SERVICE
TSQ	LCSCAN	N/A	SERVICE	MAINT. PRINT WIRING DIAGRAMS
TSQ	LS86	LS86	L	SCHEMATICS
TSQ	CSCAN	LS98	SCHEMATICS	TECHNICAL DRAWINGS WIRING DIAGRAM
TTG	65	0315-0003REVA	L	N/A
TURBO	NDF/PT	N/A	OPERATORS	1 OPERATION MANUAL
TURBO	NDF/KP	N/A	L	N/A
TURBO	NDF/KS	N/A	L	N/A
TURBO	NDF/PT	N/A	W	N/A
TURBO MACHINE INC.	ED 3600	N/A	TECHNICAL	N/A
TURN	GRAPHIC/PRINTER	GRAPHICS-1	TECHNICAL	3929
TURN	EXCEL TURBO	EXCEL-TURBO-1	TECHNICAL	VERSION II
TURN	IO PLUS II	YL-20	SERVICE	N/A
TVI	950	B300002-001	SERVICE	COPY II
TVI	924	3090301	SERVICE	CRT TERMINAL
TVI	950	B300002-001	SERVICE	INSTALLATION
TVI	924	130622-00	INSTALLATION	INSTALLATION USERS GUIDE
TVI	950	2002100	OPERATOR	IPB
TVI	955	131968-00-C	PROGRAM	IPB-PRINTS INCLUDED
TVI	9220	131979-00-A	OPERATOR	MAINTENANCE MANUAL
TVI	PT	13062400	TECHNICAL	TARGA 32 & 24 USER'S GUIDE
TVI	922	130621-00	SERVICE	THEORY OF OPERATION SCHEMATIC PARTS
TVI	912/920	2001900	SERVICE	VIDEO TERMINAL MAINTENANCE
TVI	925	2003600	SERVICE	N/A
TVI	925	8300013-001	SERVICE	N/A
TVI	950	2244601F	OPERATOR	N/A
TVI	955	131968-00	SERVICE	N/A
TVI	PT	13090500	OPERATOR	N/A
TVI	PT	130825-00	OPERATOR GUIDE	N/A
TVR	TARGA 32	3	E	INSTRUCTION
TVR	TARGA 32	1	E	TARGA SOFTWARE TOOLS NOTEBOOK
TVR	TARGA 32	2	PROGRAM	TECHNICAL MANUAL
TYCO	1076	N/A	L	INSTRUCTION
TYCO	404	N/A	L	N/A
TYLAN	FC-280	N/A	L	N/A
TYLAN	FM-380	N/A	L	N/A
TYLAN	PS-14	N/A	L	N/A
TYLAN	RO-28	N/A	B	N/A
TYLAN	RO-32	N/A	U	N/A
U.S.G.	SR-04E	N/A	U	N/A
UHER	4000	N/A	W	INSTRUCTION
UHER	4000	N/A	E	SERIES
ULTEU	60-014	N/A	E	1 OPERATION MANUAL
ULTRASONIC IND.	520 320	N/A	X	1 MANUAL
ULTRASONIC IND.	30 THRU 520	N/A	X	1 OPERATION MANUAL
UNHOLTZ DICKIE	300 SERIES	N/A	R	1 MANUAL
UNHOLTZ DICKIE	ACCELEROMETER	N/A	X	1 MANUAL
UNHOLTZ DICKIE	D11MGV-8	N/A	E	1 MANUAL
UNHOLTZ DICKIE	D22PMG-8	N/A	X A	1 MANUAL
UNHOLTZ DICKIE	607RMG3	N/A	E	1 MANUALS
UNHOLTZ DICKIE	CC350	N/A	E	1 MANUALS
UNHOLTZ DICKIE	1611	N/A	A	1 PAMPHLET
UNHOLTZ DICKIE	5D21-8	N/A	X	2 MANUALS
UNHOLTZ DICKIE	610R-7	N/A	E	2 MANUALS
UNHOLTZ DICKIE	5D21	N/A	A	ACCELEROMETER
UNHOLTZ DICKIE	1611	N/A	X	OPERATING INSTRUCTION
UNHOLTZ DICKIE	610R-7	N/A	E	OPERATING INSTRUCTION
UNHOLTZ DICKIE	8PMC/V	N/A	E	OPERATING INSTRUCTION
UNHOLTZ DICKIE	CVA608RMG-6	N/A	E	OPERATING INSTRUCTION
UNHOLTZ DICKIE	D11MGV-8	N/A	E	OPERATING INSTRUCTION
UNHOLTZ DICKIE	D11MGV-8	N/A	X	OPERATING INSTRUCTION
UNHOLTZ DICKIE	D11MGV-P	N/A	X	OPERATING INSTRUCTION
UNHOLTZ DICKIE	1602	N/A	E	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	1611	N/A	X	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	608RMG6	N/A	X	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	8PMCVA	N/A	X	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	CV608 RMG-6	N/A	E	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	CV608R-12A	N/A	E	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	CV608R-12A	N/A	E	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	CVA608RMG-6	N/A	E	OPERATING INSTRUCTIONS
UNHOLTZ DICKIE	608PSI	N/A	E	OPERATING MANUAL
UNHOLTZ DICKIE	E-105	N/A	TECHNICAL	OPERATION & MAINTENANCE
UNHOLTZ DICKIE	1611	N/A	E	STANDARDIZER
UNHOLTZ DICKIE	1293B	N/A	E	TRANSDUCER TESTER
UNHOLTZ-DICKIE	TA35-1	N/A	TECHNICAL	N/A
UNI	3070-2	CCU-WRAP	B	1 MANUAL
UNI	3070-2	UP10136	TECHNICAL	FLOPPY
UNI	3070-2	1819	X	WRAP-A-ROUND CONNECTOR
UNIELECTRON INC.	NKS-021	N/A	X	DEWERS
UNION CARBIDE	CATALOG	N/A	N/A	1 MANUAL
UNION INDUSTRIES	777-888-999	N/A	X	INSTRUCTION
UNIPHASE	100 SERIES	N/A	N/A	1 MANUAL
UNIPHASE	1300 SERIES	N/A	N/A	OPERATORS MANUAL
UNIPHASE	SERIES 1300	N/A	X	USERS MANUAL/W SOFTWARE
UNISITE	40	N/A	X	1 MANUAL
UNITED ELECTRO DYN.	DA-10	N/A	X	1 SPECS PAMPHLET
UNITED SYSTEM CORP.	2110	N/A	X	1 MANUAL
UNITED SYSTEM CORP.	251-1 & 252-1	N/A	X	1 MANUAL
UNITED SYSTEM CORP.	M1-1295	N/A	P	OPERATION & MAINTENANCE MANUAL
UNITED SYSTEM CORP.	630	N/A	X	SCHEMATICS

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UNITED SYSTEM CORP.	661	N/A	X	N/A
UNITED SYSTEM CORP.	8200	N/A	X	N/A
UNITEK	125	N/A	X	2 MANUAL
UNITEX	1201M	N/A	N/A	1 MANUAL
UNITEX	125 & 60	N/A	X	N/A
UNITRON	TM	N/A	X	1 MANUAL
UNIV. ELECTRONICS	23A	N/A	X	1 MANUAL
UNIV. ELECTRONICS	C 22-32-5	N/A	C	1 MANUAL
UNIV. ELECTRONICS	L3501	N/A	N/A	1 MANUAL
UNIVERSAL INTERLOCK	3500	N/A	X	1 MANUAL
UNIVERSAL INTERLOCK	1800-3500	N/A	X	AUTOMATED CHEMIST
UNIVERSAL VOLTRONICS	BAP-10-15	N/A	1	1 CATALOG
UNIVERSAL VOLTRONICS	BAC-10-100	N/A	X	1 MANUAL
UNIVERSAL VOLTRONICS	BAC-22-20	N/A	X	1 MANUAL
UNIVERSAL VOLTRONICS	BAL-50-70	N/A	X	1 MANUAL
UNIVERSAL VOLTS	CATALOG	N/A	SCHEMATICS	OWNERS MANUAL
UNIVERSITY SOUND	9000 SERIES	N/A	OPERATOR	LONGBOOK
UNU	3126	UP-11850	B	WINCHESTER DISK/CACHE TAPE
USDC	CSS-800	00-0800-04	B	N/A
V.I.C.	34	N/A	B	N/A
VACTRONIC	6-GC	N/A	L	N/A
VACTRONIC	T6-GC	N/A	L	N/A
VACUUM GENERAL	79X	N/A	L	N/A
VACUUM GENERAL	80-1	N/A	L	N/A
VACUUM GENERAL	80-2	N/A	L	N/A
VACUUM GENERAL	CM	N/A	L	N/A
VACUUM GENERAL	FS	N/A	X	N/A
VACUUM GENERAL	MDV	N/A	X	N/A
VACUUM-ELECTRONICS	RG	N/A	INSTRUCTION (3EA)	HUMIDITY/TEMP INDICATOR
VACUUM-ELECTRONICS	E1-1	N/A	INSTRUCTION (5EA)	N/A
VAISALA INC.	HMI 31	N/A	INSTRUCTION	HUMIDITY/TEMP INDICATOR
VAISALA INC.	HMI 33	N/A	OPERATING	HUMIDITY/TEMP PROBE
VAISALA INC.	HMP 130Y SERIES	N/A	INSTRUCTION	HUMIDITY/TEMP PROBE
VAISALA INC.	HMP 31 UT	N/A	E	HUMIDITY/TEMP PROBE
VAISALA INC.	HMP 110 SERIES	N/A	INSTRUCTION	HUMIDITY/TEMP TRANSMITTER
VAISALA INC.	HMP 32UT	N/A	E	OPERATION/MAINTENANCE
VALHALLA	3003	N/A	E	INSTRUCTION
VALHALLA	4004	N/A	E	INSTRUCTION
VALHALLA	4440	N/A	B	INSTRUCTION
VALHALLA	2724A	N/A	E	INSTRUCTION
VALHALLA	2724A	N/A	E	OPERATION/MAINTENANCE
VALIDYNE	CD12	N/A	B	N/A
VALIDYNE	CD15	N/A	B	N/A
VALIDYNE	MP45-071	N/A	X	N/A
VALIDYNE	PS309	N/A	X	N/A
VALOR	CA40V355	N/A	X	N/A
VALOR	PS202	N/A	X	N/A
VAN NORMAN	VT132	N/A	X	N/A
VANGUARD	M-16 C-11 A-11	N/A	X	N/A
VARIAN	31	N/A	X	INSTRUCTION
VARIAN	1G-10	N/A	E	INSTRUCTION
VARIAN	880	N/A	N/A	INSTRUCTIONS MANUAL
VARIAN	921-0062	N/A	B	SERVICE MANUAL
VARIAN	35	N/A	B	N/A
VARIAN	810	N/A	B	N/A
VARIAN	836	N/A	B	N/A
VARIAN	840	N/A	B	N/A
VARIAN	842	N/A	B	N/A
VARIAN	843	N/A	B	N/A
VARIAN	1052	N/A	E	N/A
VARIAN	6121	N/A	B	N/A
VARIAN	810-2	N/A	B	N/A
VARIAN	851-5091	N/A	N/A	N/A
VARIAN	936-40	N/A	B	N/A
VARIAN	951-5091	N/A	B	N/A
VARIAN	951-5092	N/A	B	N/A
VARIAN	971-0003	N/A	B	N/A
VARIAN	971-0003	N/A	X	N/A
VARIAN	971-0014 15	N/A	B	N/A
VARIAN	971-0023	N/A	X	N/A
VARIAN	971-0023	N/A	X	N/A
VARIAN	G1000 2000	N/A	X	N/A
VARIAN	G-11	N/A	X	N/A
VARIAN	G-14	N/A	B	N/A
VARIAN	IG-10	N/A	X	N/A
VARIAN	V-2700	N/A	X	N/A
VARIAN	V4000	N/A	OPERATOR	N/A
VARITYPER	820	N/A	SERVICE	N/A
VARN	STATOS31	03-996205-01H	X	GYRO
VARN	73/620	DP-120A-6/73-5	SERVICE	PRINTER/PLOTTERS
VARN	STATOES 31	03-996205-02H	R	N/A
VARO	A	N/A	X	SCHEMATIC ONLY
VARO	10-08304-018	N/A	X	N/A
VARO	ELECT. INVERTER	N/A	X	N/A
VARO	FL-4-C	N/A	X	N/A
VCS	1SA100	N/A	OPERATION MANUAL	2 SCHEMATICS ONLY
VECTOR	PM-1K-01A	N/A	X	POWER SUPPLY 30V 3A.
VECTOR-VID INSTRUMENT DIVISION	WP-775B	N/A	B	N/A
VECTRON	CATALOG	N/A	B	N/A
VEECO	TG-7	N/A	X	HANDBOOK
VEECO	LEAK DETECTOR	N/A	X	REPAIR MANUAL
VEECO	APC-100	N/A	B	N/A
VEECO	APC-110	N/A	X	N/A
VEECO	DG2-10	N/A	B	N/A
VEECO	DG2-10	N/A	X	N/A
VEECO	DG2-2T	N/A	B	N/A
VEECO	DG2-2T	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
VEECO	G20-D	N/A	X	N/A
VEECO	MS-20	N/A	X	N/A
VEECO	MS-8	N/A	X	N/A
VEECO	MS-9	N/A	X	N/A
VEECO	PS-220	N/A	B	N/A
VEECO	RG	N/A	B	N/A
VEECO	RG-1000	N/A	B	N/A
VEECO	RG-1002	N/A	B	N/A
VEECO	RG-1100	N/A	B	N/A
VEECO	RG-1102	N/A	B	N/A
VEECO	RG-83	N/A	B	N/A
VEECO	RG-84	N/A	X	N/A
VEECO	RG-88	N/A	B	N/A
VEECO	RG-88	N/A	B	N/A
VEECO	TG-27	N/A	J	N/A
VEGA	719	N/A	N/A	OPERATOR/SERVICE
VEGA	6113 MINITESTER	N/A	OPERATOR SERVICE	SCHEMATICS ONLY
VEGA PRECISION	715	N/A	E	OPERATIONS & SERVICE MANUAL
VELONEX	230	N/A	X	INSTRUCTION
VELONEX	30/35/40/45	N/A	SERVICE	N/A
VENTRON	25-100-4	N/A	SERVICE	N/A
VES	C-SIGMA	C-SIGMA	SCHEMATICS	2 COPIES
VES	8100/8200	5911-08	SERVICE	8500-8510 SERIES PLOTTER IPB
VES	MTE-15	VES-MTE-15	SCHEMATICS	AIRLAB
VES	V-80	5940-02	SERVICE	AIRLAB
VES	V-80	59400P	SERVICE	AIRLAB
VES	V-80	5938-03	N/A	AIRLAB
VES	430/444	5947-S	OPERATOR	GENERAL OPERATION AND SET UP
VES	C-TEX SERIES	VES 1-2-3	SERVICE	LOGIC
VES	400	5835-02 ED. 2	INSTALLATION MANUAL	OPERATING PROCEDURES AND DIAGNOSTICS
VES	8900 SERIES	000-052628-002	TECHNICAL	PRINTER CONTROLLER
VES	V-80	5939-01	OPERATOR	PRINTER/PLOTTER
VES	710	5955	IPB	SCHEMATICS OPERATION FOR 710 AND 711
VES	8500/8510 SERIES	E06-052788-002	OPERATOR	SERVICE FOR VES 8936
VES	C2700	5991-S-01	OPERATOR	THERMAL PLOTTER SERVICE MANUAL
VES	C2700	5991-02	TECHNICAL	THERMAL TRANSFER COLOR PLOTTER OPERATOR GUIDE
VES	1200/LP1250	VES-1200	SERVICE	UNIBUS CONTROLLER
VES	V-80	5940-03	B	USERS MANUAL
VES	232	5821-02	SERVICE	VECTOR TO RASTER
VES	400	24-009	DIAGNOSTIC MANUAL	VECTOR TO RASTER
VES	200A/LP860/200	VES-375	OPERATOR	VIDEO INTERFACE SYSTEM 165 BLDG 1299
VES	8000 VERSION 2	5933-01	TECHNICAL	VOLUME 1
VES	8000 VERSION 2	5952-01	SERVICE	VOLUME 2
VES	121	5805-14 ED.14	SERVICE	N/A
VES	1100A	VES-1100A	OPERATOR	N/A
VES	200A	M-200A-01	SERVICE	N/A
VES	210A	5848	SCHEMATICS	N/A
VES	430/444	5946	SERVICE MANUAL	N/A
VES	710/711	5957	IPB	N/A
VES	8000 VERSION 1	5937-01	SERVICE	N/A
VES	8000 VERSION 2	5933-01	IPB	N/A
VES	8100/8200	5911-08	IBB	N/A
VES	C2700	5990-01	SERVICE	N/A
VES	C-SIGMA	C-SIGMA	OPERATOR	N/A
VES	D1200A	D1200A	SERVICE	N/A
VES	V-80	5940-03	TECHNICAL	N/A
VIA WEST	PATH FINDER	N/A	B	N/A
VIATRAN	119	N/A	B	N/A
VIATRAN	215	N/A	B	N/A
VIATRAN	219	N/A	B	N/A
VIATRAN	319	N/A	A	N/A
VIATRAN	318-24	N/A	A	N/A
VIBRATION INSTRUMTS.	2350S	N/A	A	N/A
VIBRATION INSTRUMTS.	933A	N/A	A	N/A
VIBRATION INSTRUMTS.	933B	N/A	A	N/A
VIBRATION INSTRUMTS.	945C	N/A	A	N/A
VIBRATION SPECIALITY	VIBRATING MACH.	N/A	E	ASSORTED MANUALS
VIBROGRAF	B200	N/A	E	INSTRUCTION
VIC	933A	N/A	S	INSTRUCTION
VIC	933A	N/A	S	SERVICE MANUAL
VICTOR COMPANY OF JAPAN	BR-S822U/BR-S622U/BR-S522U	N/A	1	INSTRUCTION
VICTOR COMPANY OF JAPAN	BR-S525U	N/A	E	SERVICE MANUAL
VICTOREEN	287	N/A	1	N/A
VICTOREEN	440	N/A	1	N/A
VICTOREEN	444	N/A	X	N/A
VICTOREEN	475	N/A	1	N/A
VICTOREEN	488	N/A	1	N/A
VICTOREEN	490	N/A	1	N/A
VICTOREEN	555	N/A	X	N/A
VICTOREEN	592	N/A	X	N/A
VICTOREEN	687	N/A	1	N/A
VICTOREEN	702	N/A	1	N/A
VICTOREEN	710	N/A	1	N/A
VICTOREEN	740	N/A	X	N/A
VICTOREEN	1001	N/A	1	N/A
VICTOREEN	AGB-10KG-SR	N/A	X	N/A
VIDAR	510	N/A	E	INSTRUCTION
VIDAR	520	N/A	E	INSTRUCTION
VIDAR	521	N/A	X	INSTRUCTION
VIDAR	520	N/A	X	TECHNICAL MANUAL
VIDAR	202	N/A	X	N/A
VIDAR	240	N/A	X	N/A
VIDAR	260	N/A	X	N/A
VIDAR	302	N/A	X	N/A
VIDAR	406	N/A	X	N/A
VIDAR	409	N/A	X	N/A
VIDAR	520	N/A	X	N/A



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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
VIDAR	520	N/A	X	N/A
VIDAR	610	N/A	X	N/A
VIDAR	624	N/A	X	N/A
VIDAR	4303	N/A	E	N/A
VIDAR	4303	N/A	X	N/A
VIDAR	5203	N/A	E	N/A
VIDAR	8812	N/A	X	N/A
VIDAR	9200	N/A	X	N/A
VIDAR	652-20	N/A	X	N/A
VIDAR	9201-9207	N/A	X	N/A
VIDEO INSTRUMENTS	71	N/A	X	N/A
VIDEO INSTRUMENTS	74	N/A	K	N/A
VIDEO INSTRUMENTS	SR200	N/A	K	N/A
VIDEOTEK	TVM-620	N/A	K	INC. RM-12/VM-12PR -12PRO
VIDEOTEK	VM-12	N/A	K	INC. RM-21
VIDEOTEK	VM-21	N/A	K	INC. VM-8PR -8PT RM-8 BP-81
VIDEOTEK	TSM-5	N/A	K	INSTRUCTION AND SERVICE
VIDEOTEK	VSM-5	N/A	N/A	SERVICE MANUAL
VIDEOTEK	DM-40R	N/A	S	N/A
VIDEOTEK	VM-8	N/A	N/A	N/A
VIDEOTEK INC	VSG-201	N/A	X	INSTRUCTION AND SERVICE
VIDEOTEK INC.	APM-BR	N/A	TECHNICAL	N/A
VIDIGAGE	14 21	N/A	SERVICE	72061 DAS
VIDR	13014	N/A	TECHNICAL	72094
VIDR	521-01	N/A	TECHNICAL	5203 DAS
VIDR	531	N/A	TECHNICAL	5403 DAS
VIDR	643/13890	N/A	TECHNICAL	5403 DAS
VIDR	661A/13894	N/A	INSTRUCTION	5403 DAS
VIDR	5203 D-DAS	N/A	TECHNICAL	72061 DAS
VIDR	670/13897	N/A	E	STRAIN GAGE CONDITIONER & AMP SYSTEM. SEE ALSO: MEASUREMENTS GROUP
VISHAY	VAM-1	N/A	INFORMATION	HEAT STRESS COMPUTER
VISHAY	700	N/A	E	INSTRUCTION
VISHAY	P3500	N/A	E	INSTRUCTION
VISHAY	SB-1	N/A	E	INSTRUCTION
VISHAY	SB-10	N/A	E	INSTRUCTION
VISHAY	V/E-20A	N/A	E	INSTRUCTION
VISHAY	V/E-20A	N/A	TECHNICAL	INSTRUCTION
VISHAY	2100 SYSTEM	N/A	E	MANUFACTURING PROCEDURE
VISTA SCIENTIFIC CORP.	858 859 860	N/A	N/A	PSYCHROMETER BATTERY OPERATED
VISUAL GRAPHICS	TOTAL CAMERA II	N/A	K	INSTRUCTIONS MANUAL (2)
VISUAL INF. INST.	2501B	N/A	K	N/A
VISUAL INFO. INST.	27	N/A	X	N/A
VISUAL INFO. INST.	1200	N/A	K	N/A
VISUAL INFO. INST.	1207	N/A	K	N/A
VISUAL INFO. INST.	1302	N/A	K	N/A
VISUAL INFO. INST.	2501	N/A	K	N/A
VISUAL INFO. INST.	1208A	N/A	K	N/A
VISUAL INFO. INST.	2502A	N/A	X	N/A
VITRO	SPU360	N/A	SCHEMATICS	INSTRUCTION
VITRO	1500	N/A	X	N/A
VITRO	2501	N/A	X	N/A
VITRO	1301 02	N/A	X	N/A
VITRO	1455 6	N/A	X	N/A
VITRO	1671-4	N/A	X	N/A
VITRO	1FM-100-1	N/A	X	N/A
VITRO	1FM-300-1	N/A	X	N/A
VITRO	2100A	N/A	X	N/A
VITRO	5100A	N/A	X	N/A
VITRO	DCA500 1000	N/A	X	N/A
VITRO	R-1037	N/A	X	N/A
VITRO	RFT-101	N/A	X	N/A
VIZ	WD-766A WD-767A	N/A	SCHEMATICS	GLOBAL INTERRUPT EXPANDER
VME	5010	500-005010-000	X	VMEBUS TO DR11W INTERFACES
VME	DR11W	500-00DR11-000	X	N/A
VOLTEX	2501	N/A	X	N/A
VOLTEX	82-163	N/A	B	N/A
VOLTRON	PW	N/A	B	N/A
VOLUMETRICS	PPM-100D	N/A	X	VME BUS HANDBOOK
VOLUMETRICS	IPM-100	N/A	B	N/A
VOLUMETRICS	IPM-500	N/A	B	N/A
VOLUMETRICS	PPM-1000	N/A	ENGINEERING	N/A
VTT	VME BUS	VMEBUS	X	N/A
VU-DATA	PS940	N/A	K	SERVICE FOR VIEWSONIC 4E
VU-DATA	910	N/A	K	N/A
VU-DATA	1200	N/A	X	N/A
VU-DATA	101C	N/A	X	N/A
VU-DATA	PS900	N/A	SERVICE	N/A
VWS	7033D	7033D	B	SCHEMATICS INCLUDED
W. L. MAXSON CORP.	P-1060	N/A	B	N/A
WALLACE & TIERNAN	300	N/A	B	N/A
WALLACE & TIERNAN	1000	N/A	B	N/A
WALLACE & TIERNAN	1500	N/A	B	N/A
WALLACE & TIERNAN	61-050	N/A	B	N/A
WALLACE & TIERNAN	66-100	N/A	B	N/A
WALLACE & TIERNAN	F1A-135-2-1	N/A	B	N/A
WALLACE & TIERNAN	FA 135	N/A	B	N/A
WALLACE & TIERNAN	FA 145	N/A	B	N/A
WALLACE & TIERNAN	FA SERIES	N/A	B	N/A
WALLACE & TIERNAN	FA-129	N/A	B	N/A
WALLACE & TIERNAN	FA-141	N/A	B	N/A
WALLACE & TIERNAN	FA-145	N/A	B	N/A
WALLACE & TIERNAN	FA-160	N/A	B	N/A
WALLACE & TIERNAN	FA-233	N/A	B	N/A
WALLACE & TIERNAN	FA-234	N/A	X	N/A
WALLACE & TIERNAN	SONAR	N/A	X	N/A
WALTHAM	100	N/A	X	N/A
WALTHAM	121	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
WANG	300	N/A	E	INSTRUCTION
WANG	300	N/A	E	INSTRUCTION
WANG	370	N/A	X	INSTRUCTION
WANG	2067	N/A	E	INSTRUCTION
WANG	45	N/A	X	N/A
WANG	380	N/A	X	N/A
WANG	2005	N/A	X	N/A
WANG	2019	N/A	E	N/A
WANG	5510	N/A	SEE PEK	N/A
WANG	200/300	N/A	X	N/A
WANG	5-SP	N/A	X	N/A
WANG	641 741 2241	N/A	X	N/A
WANG	PERKIN ELMER	REF	MAINTENANCE	N/A
WANG	TAYLOR MOP. BAS.	N/A	X	N/A
WANT	5000E	200363-001	N/A	N/A
WAR DEPT.	SCR 584	N/A	N/A	CLUTCH AND BRAKE HANDBOOK
WARNER ELECT.	N/A	N/A	N/A	PROGRAMMING GUIDE
WARNER ELECTRIC	ELECTRAK 2000	N/A	N/A	SERVICE AND INSTALLATION INSTRUCTIONS
WARNER ELECTRIC	PAC-4180EPI125	N/A	X	N/A
WATANABE	MC6700	N/A	R	N/A
WATERMAN	S-15	N/A	X	VARIOUS MODELS OF GYROS
WATSON	CATALOG	N/A	X	N/A
WAVEFORMS	512	N/A	X	N/A
WAVEFORMS	401-3	N/A	X	N/A
WAVELINK	3290-3291	N/A	X	N/A
WAVETEK	SAM IV	N/A	X	ACV CALIBRATION TECHNIQUES
WAVETEK	171	N/A	X	CALIBRATION PROCEDURE
WAVETEK	204	N/A	N/A	INSTRUCTION
WAVETEK	2002	N/A	N/A	INSTRUCTION
WAVETEK	22	N/A	X	INSTRUCTION (PRELIMINARY)
WAVETEK	801	N/A	X	INSTRUCTION MANUAL
WAVETEK	19	N/A	X	INSTRUCTION MANUAL INCLUDES SCHEMATICS PARTS LIST CAL. INSTRUCTIONS
WAVETEK	75	N/A	N/A	INSTRUCTIONS MANUAL
WAVETEK	1050A	N/A	X	INSTRUCTIONS MANUAL
WAVETEK	75	N/A	X	M00833/ARBITRARY WAVEFORM GENERATOR
WAVETEK	21	N/A	X	M00834/STABILIZED FUNCTION GENERATOR/M00834
WAVETEK	23	N/A	N/A	M00835/SYNTHESIZED FUNCTION GENERATOR
WAVETEK	220	N/A	N/A	M00836/SYNTHESIZED FUNCTION GENERATOR
WAVETEK	23	N/A	X	M00837/SYNTHESIZED FUNCTION GENERATOR
WAVETEK	3003-3006	N/A	X	OPERATING AND 2 EACH SERVICE
WAVETEK	275	N/A	S	OPERATION AND CALIBRATION
WAVETEK	186	N/A	S	OPERATION AND MAINTENANCE MANUAL
WAVETEK	3510B	N/A	X	OPERATOR'S ARBITRARY WAVEFORM GENERATOR
WAVETEK	295	N/A	X	OPERATOR'S MANUAL
WAVETEK	950	N/A	N/A	SAM SERIES SERVICE MANUAL
WAVETEK	SAM I	N/A	N/A	SAM SERIES SERVICE MANUAL
WAVETEK	SAM II	N/A	N/A	SAM SERIES SERVICE MANUAL
WAVETEK	SAM III	N/A	CAL GUIDE	SAM SERIES SERVICE MANUAL
WAVETEK	220	N/A	N/A	SCHEMATICS ONLY
WAVETEK	101-7	N/A	N/A	SERVICE
WAVETEK	29	N/A	O	SERVICE MANUAL
WAVETEK	157	N/A	X	SWEEP GEN.
WAVETEK	180	N/A	X	USER & SERVICE MANUAL
WAVETEK	20	N/A	E	N/A
WAVETEK	21	N/A	X	N/A
WAVETEK	21	N/A	X	N/A
WAVETEK	23	N/A	OPERATORS	N/A
WAVETEK	23	N/A	X	N/A
WAVETEK	75	N/A	X	N/A
WAVETEK	130	N/A	X	N/A
WAVETEK	135	N/A	X	N/A
WAVETEK	136	N/A	X	N/A
WAVETEK	142	N/A	X	N/A
WAVETEK	144	N/A	X	N/A
WAVETEK	148	N/A	X	N/A
WAVETEK	164	N/A	X	N/A
WAVETEK	164	N/A	X	N/A
WAVETEK	210	N/A	E	N/A
WAVETEK	295	N/A	X	N/A
WAVETEK	395	N/A	X	N/A
WAVETEK	750	N/A	INSTRUCTION MANUAL	N/A
WAVETEK	859	N/A	N/A	N/A
WAVETEK	1050A/1051	N/A	X	N/A
WAVETEK	110-1	N/A	X	N/A
WAVETEK	112-6	N/A	X	N/A
WAVETEK	131A	N/A	X	N/A
WAVETEK	3000-2	N/A	X	N/A
WAVETEK	3510B	N/A	N/A	N/A
WAVETEK	452 852	N/A	X	N/A
WAVETEK	5810A	N/A	X	N/A
WAVETEK CORPORATION	4920	N/A	X	N/A
WAYNE KERR	B641	N/A	B	USER'S GUIDE
WAYNE KERR	B221A	N/A	WINDOW DOS SOFTWARE	N/A
WDA	WINDOW-DOS-001	WINDOW-DOS-001	B	N/A
WEATHER MEASURE	7020	N/A	X	N/A
WEATHER MEASURE	7021	N/A	X	N/A
WEBBER	B641	N/A	X	N/A
WEECOR	2303	N/A	N/A	N/A
WEGENER	1606	N/A	F	INSTRUCTIONS MANUAL
WEINSCHHEL	BA-ID	N/A	OPER/SERV	N/A
WEINSOHEL	VM-4A	N/A	B	THERMO-HYGROGRAPH
WEKSLER	O8TS-W	N/A	B	N/A
WELCH	3150B	N/A	V	OWNERS MANUAL
WELCH	3150	N/A	B	N/A
WELCH	DENSICIFRON	N/A	X	N/A
WELDMATIC	1032C	N/A	X	SCHEMATICS ONLY
WELDMATIC	ELEC. ARC WELDER	N/A	X	N/A

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MANUFACTURER	MODEL NUMBER	MANUAL NUMBER	MANUAL TYPE	DESCRIPTION
WENSCHER	1800	N/A	X	N/A
WENSCHER	L771	N/A	L	N/A
WENSCHER	TUNOR	N/A	X	N/A
WEST	F	N/A	X	ALL TECHNICAL DATA IS COMPANY CONFIDENTIAL
WESTERN DIGITAL	DISK CONTROLLERS	N/A	X	N/A
WESTERN ELECTRIC	LE	N/A	E	REPAIR AND PARTS
WESTERN ELECTRIC	700A	N/A	X	N/A
WESTERN GRAFTER	WX2300	N/A	X	INSTRUCTION
WESTINGHOUSE	VIBRATION	N/A	E	PANEL METER
WESTINGHOUSE	904J038-1/2/3	N/A	A	N/A
WESTON	1230	N/A	E	INSTRUCTION
WESTON	1230	N/A	E	INSTRUCTION
WESTON	1241	N/A	X	INSTRUCTION
WESTON	779	N/A	X	SCHEMATICS
WESTON	1280	N/A	X	N/A
WESTON	1411	N/A	X	N/A
WESTON	1641	N/A	E	N/A
WESTON	A461-16	N/A	X	N/A
WESTON	DA-400	N/A	X	N/A
WESTRONICS	05A	N/A	X	N/A
WHEELCO	65	N/A	R	N/A
WHITE	2640	N/A	R	GYRO
WHITTAKER	529235	N/A	H	GYRO
WHITTAKER	529255	N/A	H	INSTRUCTION
WHITTAKER	BRJR18100TP80889	N/A	H	INSTRUCTION
WHITTAKER	BRJR1821TP7096	N/A	X	INSTRUCTION
WHITTAKER	CD25	N/A	R	INSTRUCTION
WHITTAKER	FRJ32-24 PP	N/A	X	VARIOUS MODELS OF ACCELS
WHITTAKER	BRJR1898TP81066	N/A	H	N/A
WILCOXON RESEARCH	CATALOG	N/A	THEORY	N/A
WILEY	WCM-21	N/A	INFORMATION	RADIOMETER THEORY OF OPERATION
WILLIAMSON	8000	N/A	X	INFORMATION
WILMORE	1515-220-300-1000	N/A	X	N/A
WILSON	1405/1505	N/A	X	N/A
WILTRON	352	N/A	U	3 SHEETS
WIRING GAS CAL	352	N/A	U	N/A
WOLLENSAK	T-1500	N/A	N/A	SPECIFICATION SHEET
WOLLENSAK	5800 5700 SR.	N/A	U	N/A
WOLLENSAK	6200 6300	N/A	E	N/A
WOODHEAD	500V/1000V	N/A	N/A	SCHEMATICS
WYLE	UP	N/A	N/A	OPERATIONAL MANUAL
WYLE	9002	N/A	N/A	SCHEMATICS
WYLE	9002	N/A	N/A	SCHEMATICS
WYLE	9003	N/A	X	SCHEMATICS
WYLE	WAS3000	N/A	N/A	TECHNICAL MANUAL
WYLE	9003	N/A	H	N/A
WYLE	B-22X	N/A	Q	N/A
WYLE	C106	N/A	X	N/A
WYLE	MP SERIES	N/A	P	N/A
WYLE LABORATORIES	8904	N/A	SERVICE	OPERATION MANUAL WITH DRAWINGS AND SCHEMATICS
WYLE LABORATORIES	BALANCE DYNAMIC DISPLAY	N/A	SERVICE	TERMINAL
WYS	WY60	880300-01REVA	SERVICE	TERMINAL
WYSE	PC286	880195-02REVA	OPERATOR	GENERAL MAINTENANCE ALIGNMENTS
WYSE	WY-50	88-021-01	MAINTENANCE	MAINTENANCE MANUAL
WYSE	WY75	12484	OPERATION	MAINTENANCE PRINTS AND INSTRUCTIONS
WYSE	85	88-081-01	SERVICE	PC
WYSE	WY-50	88-021-01	SERVICE	QUICK-REFERENCE GUIDE
WYSE	WY-50/75	88-020-01	MAINTENANCE	REVA 1987
WYSE	PC286	880195-01REVA	TECHNICAL	TERMINAL
WYSE	WY75	88063-01	SCHEMATICS	N/A
WYSE	WY-99GT	880416-01	OPERATOR	N/A
XAX	XT 3030	XT3030	SERVICE	CONTROLLER FOR XENON AND ARC LAMPS
XENON	447	N/A	X	SERVICE MANUAL
XER	4045	720P20291	X	N/A
XEROX	PT28	N/A	N/A	VME DISK CONTROLLER
XEROX	M6365	N/A	X	N/A
XEROX	PT16	N/A	X	N/A
XEROX	PT17	N/A	X	N/A
XEROX	PT20	N/A	TECHNICAL	N/A
XYL	753	166-753-001	X	N/A
YASHICA	TL ELECTROX	N/A	E	N/A
YELLOW SPRINGS	33	N/A	N	INSTRUCTION
YELLOW SPRINGS	105	N/A	E	INSTRUCTION
YELLOW SPRINGS	80	N/A	N/A	SERVICE MANUAL
YELLOW SPRINGS	33	N/A	X	N/A
YOKOGAWA	HR2400	N/A	TECH INFO	DIGITAL PWR METER
YOKOGAWA	7015	N/A	S	INSTRUCTION MANUAL
YOKOGAWA	DL1540/DL1520	N/A	N/A	INSTRUCTION MANUAL
YOKOGAWA	DL1200 GPIB AND RS232C	N/A	N/A	OPERATOR'S MANUAL
YOKOGAWA	3021	N/A	N/A	PARTS
YOKOGAWA	3213	N/A	N/A	REPAIR AND PARTS
YOKOGAWA	HR2300 HR2400	N/A	BULLETIN	REPAIR AND PARTS
YOKOGAWA	3087	N/A	N/A	SERVICE MANUAL
YOKOGAWA	3750	N/A	S	SERVICE MANUAL
YOKOGAWA	DL1200A OSCILLOSCOPE	N/A	N/A	USER MANUAL
YOKOGAWA CORP. OF AMERICA	2534/2535	N/A	CATALOG	INSULATION RESISTANCE TESTER
YOKOGAWA CORP. OF AMERICA	3213	N/A	X	PRODUCT LINE
YOKOGAWA CORP. OF AMERICA	2533E	N/A	SERVICE COPY	Q&A DIGITAL PWR METER
YOKOGAWA CORP. OF AMERICA	CATALOG INSTRUMENT	N/A	SERVICE	N/A
YOUNG TESTING	A	N/A	N/A	SERVICE MANUAL FOR PRESARIO 500 SERIES
ZCPQ	500	177196-001	SERVICE	OPERATING GUIDE
ZETEC	MIZ-40	N/A	SERVICE	6088
ZONI	6088	6088-002	SEE TEK 780	VOL 1
ZONI	6088	6088-001	SERVICE	VOL 2
ZONI	6088	6088-001	SERVICE	N/A

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<b>MANUFACTURER</b>	<b>MODEL NUMBER</b>	<b>MANUAL NUMBER</b>	<b>MANUAL TYPE</b>	<b>DESCRIPTION</b>
ZONI	6088CP	REF	SERVICE	N/A
ZTH	ZFL-184-2/4	595-4078-01	X	HEATH/ZENITH VIDEO MONITO
ZTH	ZVM122	595-3079	X	INSTRUCTIONS MANUAL
ZTH	SM-ZVM-121	585-2-01	TECHNICAL	MONITOR
ZTH	SM-ZVM-122/123	585-33	SERVICE	USER/TECHNICAL MANUAL-SUPERSPORT

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
C3701G2	+ - 15V POWER REGULATOR ASSY FOR PRECISION FILTER BOARD	1	\$20.00
MC7808CT	+8.0 VOLTAGE REGULATOR	1	\$0.65
SS-1-UT-1-2	1/16 IN CONNECTOR	4	\$26.70
7254	1/16" SPADE TIP CORDLESS SOLDERING TIP	8	\$7.50
SS-2-UT-1-2	1/8 IN CONNECTOR	8	\$15.90
113R92	1012 COPY CARTRIDGE	2	\$334.00
6R257	1012 TONER CARTRIDGE (2EA PER BX ORDER PER BOX ISSUE PER EA)	3	\$49.00
BPA1597	10X17 ALUMINUM CHASSIS BOTTOM PLATE BUD INDUSTRIES	1	\$6.88
BPA1598	13X17 ALUMINUM CHASSIS BOTTOM PLATE BUD INDUSTRIES	2	\$9.54
ST318406LW	18.4GB ULTRA 160 DISK DRIVE	2	\$189.00
271XY5-35SC01	2.7" ALPHA-NUMERIC MODULE	2	\$64.00
4600-02-0000	20 OHM TRIM POT .5 WATT	8	\$6.00
WMT33	3" X 3/4" PLASTIC TAG (25 PER PACK ASSORTED COLORS)	5	\$23.49
3.6 VOLT	3.6 VOLT BATTERY PACK CONSISTING OF 3 1.2V 1/3AA NICADS CONNECTED IN SERIES END TO END (STACK)	3	\$6.24
7253	3/32" SPADE TIP CORDLESS SOLDERING TIP	4	\$7.50
SHIP MEMO	4 PART SHIPPING MEMORANDUM FORM (825 PER BOX) FORM# "WP-22 REV.1 05/01/98" TO BE PRINTED ON E	3	\$385.50
K4M02	4 WAY SKINNER VALVE 24VDC	2	\$89.30
42F128	57-30240 AMPHENOL CONNECTOR 24P	1	\$4.95
N600A-N23W	6 VOLT BATTERY PACK CONSISTING OF 5 1.2V 1/2AA NICAD BATTERIES. HIGH ENERGY. WITH WIRE LEADS.	2	\$22.75
MC7908CT	-8.0 VOLTAGE REGULATOR	3	\$0.45
D-CW4	ABRASIVE WHEEL	10	\$5.63
510-100076-001	AC OUT 1137 MODCOMP	1	\$300.00
6480198	ACETONE HIGH SOLVENT GALLON	3	\$7.97
118-0031-00	ACT ASSY TEK 4014	1	\$7.25
922-1644	ACTUATOR POWER PAM 7500 ORDER QTY.= 1 PKG. PKG.= 10 ISSUED F/STOCK EACH	9	\$0.45
25/35-HDIDE	ADAPTER 2.5" TO 3/5" HARD DRIVE IDE ADAPTER MOUNTING KIT	1	\$20.00
49-2038	ADAPTER AC ADAPTER	1	\$30.00
38390	ADAPTER AT SERIAL ADAPTER 25 MALE TO 9 PIN FEMALE PIN GENDER CHANGER	4	\$1.80
516-100785-001	ADAPTER BACKPLANE TO SCSI BUS MOD 9088-4	1	\$200.00
44509	ADAPTER CABLE	1	\$12.00
922-0419	ADAPTER CABLE APPLE APM RGB14	1	\$51.00
8529152	ADAPTER DISK	3	\$125.00
HONPS/2	ADAPTER KEYBOARD PS/2 TYPE 6P MINI DIN MALE TO 5P FEMALE ADAPT ATKB TO DELL 220 PS2	2	\$5.75
CJ-BATT-R	ADAPTER RETROFIT BATTERY ADAPTER BATTERY PART#TL5902	12	\$14.28
067-1043-00	ADAPTER SELF TEST	1	\$30.00
02-20-UNV	ADAPTER VIDEO APM	2	\$30.00
MACLIBERTY	ADAPTER VIDEO APM APPLE ENHANCE ENK MACLIBERTY	1	\$27.00
50F6458	ADAPTOR TYPE 45-591-BU	2	\$7.72
268P-1/4X1/8	ADAPTOR POLYFLO MALE 1/4X1/8	14	\$1.62
8040-142-9193	ADHESIVE CYANOACRYLATE SUPER GLUE D910	2	\$0.71
391-0180-00	ADJUSTING BLOCK HEAD INKJET TEK 4692	5	\$1.20
961604-001	AIR PUMP CIPHER M990	1	\$167.00
790089	ALCOHOL DENATURED ORDER QTY = GALLON	4	\$7.71
6513	ALCOHOL ISOPROPYL ISOPROPANOL ACS GRADE	0	\$0.85
6505-105-0000	ALCOHOL PURE ETHYL	10	\$1.01
067-1142-00	ALIGNMENT GRATICULE TEK 4115/4129	1	\$575.00
9121-K	ALIGNMENT PACK HP9121 DISK DRIVE	1	\$60.00
75018400	ALIGNMENT TOOL CARRIAGE ASSY CDC BK7B2W	1	\$175.00
5975-284-7615	ALLIGATOR CLIP COVER BLACK	4	\$0.43
CPU-AMD-K62/500	AMD K6-2/500 100MHZ BUS	1	\$23.00
87147-6	AMP PLUG HOUSING 14PIN 14P 14 PIN	1	\$4.33
AD624BD	AMPLIFIER	4	\$25.63
15-5221-11	AMPLIFIER	2	\$200.00
269587	AMPLIFIER	8	\$200.00
504M115	AMPLIFIER CHARGE KISTLER FOR PARTS	1	\$750.00
620-43095F	AMPLIFIER GAIN-100	1	\$10.00
661-0371	ANALOG BD MAC SE	1	\$120.00
AD569AD	ANALOG DEVICES DIGITAL TO ANALOG CONVERTER 28DIP	1	\$43.26
UNKNOWN	ANTI STATIC BENCH MAT 2' X 4'	2	\$41.00
8001	ANTI-SEIZE	9	\$5.00
PM 003 837	ANTIVIBRATION RING	2	\$7.00
PM 023 966	ANTIVIBRATION RING LOWER AXIAL	2	\$3.00
LB999351	AOA SENSORS TAILS - CALL SUE GRAFTON 864-1145 FOR REORDER	17	\$100.00
160103-499	ARM ASSY	1	\$53.00
07470-40022	ARM PINCHROLL	1	\$2.00
07470-40023	ARM PINCHROLL LH	1	\$1.00
267373-001	ARM PIVOT W/RIB JAM DET B300	1	\$145.00
119-0758-00	ARSR ELEC SURGE	2	\$1.00
09845-66554	ASSEMBLY ADVANCED PAPER	1	\$2.00
90-09571-00	ASSEMBLY CATCH 630QB(BA123 CABINET) DEQ	10	\$1.80
70900-60117	ASSEMBLY HP 70900B LOCAL OSCILLATOR 300MHZ	1	\$10.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
G0001843	ASSEMBLY LASER DIODE 29-26071-00 RICH0 LN03 LP4081	1	\$234.75
DH093WB	ASSEMBLY P/S LOGIC PCB BACKPLANE PCB VES C2700 MBI G65010	1	\$400.00
686-9147	ASSEMBLY POWER LED AND SPEAKER SUN SPARC 2	1	\$20.00
09872-60514	ASSEMBLY UPPER DECK 9872	1	\$700.00
C2700-TOP-ASSY	ASSEMBLY UPPER VES C2700 MBI G65010	1	\$400.00
A-1371-564-A	ASSEMBLY VIDEO CONTROL DEQ VRT19DA	1	\$50.00
640-0504-00	ASSY CASSETTE	2	\$450.00
82939-60901	ASSY SERV SER BOARD	1	\$215.00
5086-7878	ATTENUATOR 65DB	1	\$1,550.00
970-1029	AUXILIARY TRAY EXTENDER FOR OUTPUT PAPER TRAY	2	\$4.50
551-100445-001	BACKPLANE ASSEMBLY	1	\$4,065.00
54-17507-01	BACKPLANE BA123 13 SLOT 120V	1	\$850.00
54-17507(EX)	BACKPLANE BACK PLANE BA123 DEQ	1	\$100.00
2225700-B	BACKPLANE P/S	1	\$100.00
T3000	BACKUP COLORADO INTERNAL BACKUP FOR PC'S 3.2GB FITS BOTH 3.5" AND 5.25" DRIVE BAYS	1	\$164.00
S-1693	BAG PLASTIC RECLOSABLE 4X4	400	\$0.03
S-1697	BAG PLASTIC RECLOSABLE 6X6	382	\$0.04
901-06	BAG VACUUM MIGHTY-MINI	4	\$1.66
5935-201-8965	BANANA PLUG BLACK	14	\$0.79
5935-583-2715	BANANA PLUG GREEN	0	\$1.01
5935-615-1372	BANANA PLUG RED	0	\$0.63
685270	BAND DRIVE	9	\$14.25
58847-ST225	BAND STEPPER DISK ASSEMBLY PAIR SEAGATE ST225	1	\$10.00
58847-ST251	BAND STEPPER DISK ASSEMBLY PAIR SEAGATE ST251	1	\$10.00
106842-001	BAR ANTI-STATIC	1	\$25.00
07470-60025	BASE ASSEMBLY	1	\$19.00
PS1220	BATTERY 12 VOLT 2.0AH	1	\$19.60
51F1314	BATTERY NICAD 1.2V 650MAH SIZE AA TYPE EF6500AA WITHOUT TABS	2	\$1.90
621-0395	BATTERY RECHARGEABLE 12V 18.0 AH MODEL PS-12180F POWERSONIC	2	\$46.80
621-1229	BATTERY RECHARGEABLE 12V 3.0 AH MODEL PS-1230	1	\$21.50
46F5902	BATTERY WATCH CALCULATOR SILVER OXIDE 1.5V	2	\$1.00
CH4T	BATTERY 1.2V D RECHARGEABLE NICAD 4.0AH WITH TABS	5	\$5.30
CH1.2T	BATTERY 1.2V SUBC RECHARGEABLE NICAD VAX 750	6	\$4.95
C	BATTERY 1.5V C E93 ALKALINE ENERGIZER ONLY	37	\$0.79
AAA	BATTERY 1.5V E92 ALKALINE AAA ENERGIZER ONLY	14	\$0.49
4FH/410/735	BATTERY 1.5V HOBBY BATTERY NO.900	2	\$5.66
NP7-12	BATTERY 12VOLT 12V 7.0AH MAINTNEANCE FREE RECHARGEABLE MFR:YUASA	1	\$24.20
Y10/VS704/220	BATTERY 15V FLAT PHOTO/ELECTRONIC	2	\$5.97
U15/M-215BA261	BATTERY 22.5V 412	5	\$5.41
505	BATTERY 22.5V PHOTO FLASH	6	\$8.75
TL-2150	BATTERY 3.6V 0.58 X 1.00 TL-2150/S LITHIUM 1/2AA APM MAC2	3	\$5.18
742-0011	BATTERY 3.6V 1/2AA LITHIUM MAC2 MAC2CX APM APPLE CONTACT FIVE YEAR EXPIRATION DATE FROM DATE	3	\$4.73
146-0045-00	BATTERY 3.6V AA DRY LITHIUM W/LEADS	4	\$6.30
TL5902	BATTERY 3.6V LITHIUM SBP	6	\$6.03
TL-5242	BATTERY 3.6V PACK LITHIUM TOSHIBA T3100 CMOS	2	\$10.50
3/60DK	BATTERY 3.6V VARTA COMMODORE 3/V60R NICAD 60MAH STACKED WITH TABS	2	\$2.25
U20/413	BATTERY 30V NONRECHARGEABLE	1	\$7.51
DL123AB	BATTERY 3V .95AHR LITHIUM BATTERY FOR USE WITH LOGICTECH CORDLESS MOUSE B9511	2	\$9.95
BR2325	BATTERY 3V BUTTON LITHIUM BR2325	2	\$2.95
CR-1/3N	BATTERY 3V LITHIUM	2	\$3.00
PX19	BATTERY 4.5V ALKALINE	3	\$12.00
PS610	BATTERY 6V 1AH	1	\$11.45
F4BP	BATTERY 6V 2-SCREW TERMINAL TYPE BURGESS F4BP	2	\$6.62
72X8498	BATTERY 6V PACK LITHIUM CMOS IBM PS/2 XT286 XT-286	1	\$12.50
8286121	BATTERY 6V PACK LITHIUM WITH LEADS CLONE 5170 IBM AT SQUARE	2	\$9.75
AA/E91	BATTERY AA 1.5V ALKALINE ENERGIZER ONLY	161	\$0.45
EL5114	BATTERY AA 3.6V LITHIUM	2	\$7.00
D	BATTERY ALKALINE 1.5V D CELL ENERGIZER ONLY	44	\$0.79
9VOLT	BATTERY ALKALINE 9V ENERGIZER	59	\$1.25
E90	BATTERY ALKALINE MN9100 1.5V N SIZE	8	\$0.85
L15	BATTERY CHARGER	3	\$25.00
AM700.0003	BATTERY COVER	5	\$2.15
2176	BATTERY HOLDER 2X D SIZE	2	\$3.72
184	BATTERY HOLDER AA CELL	7	\$0.50
ECR2032	BATTERY LITHIUM BATTERY 3V BUTTON DL2032 CR2032	13	\$2.95
370759	BATTERY NICAD 1.2V 1/2 "D" SIZE	15	\$4.90
M07057	BATTERY NICAD 1.3V TRANSCIEVER BATTERY	1	\$6.25
CF15T/CH500	BATTERY NICAD AA PS-AAWT TDI AA 500MA W/SLANT TABS 1.2V	3	\$3.15
5N850AA	BATTERY NICAD BATTERY PACK 6 VOLT 600MA CONSISTING OF 5 "A" CELLS SIDE BY SIDE WITH WELDED	4	\$13.75
CH1.8T	BATTERY NICAD C 1.2V 1800MAH 2.0SCL WITH TABS	15	\$5.55
4006-269837	BATTERY NICAD RECHARGEABLE 21.6V 1.4AH	2	\$175.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
4/5AF NIMH	BATTERY NICKEL METAL HYDRIDE 4/5 A WITH SOLDER TABS	6	\$5.00
303BP	BATTERY NONRECHARGEABLE 1.5V BUTTON SILVEROXIDE 303 357 SR44 EST.COST = \$0.77	10	\$1.10
9/SC2200	BATTERY PACK RECHARGEABLE 10.8V 2.2AH CONSISTING OF 9 CELLS WITH SOLDER TABS AND WIRE LEAD	2	\$53.55
95F4766	BATTERY PX625A 1.5V BUTTON ALKALINE PHOTO REPLACES PX13 PX625 EPX625	6	\$2.95
JC6100	BATTERY RECHARGEABLE 6V 10AH LCR6V10 PA	3	\$17.65
950019	BATTERY RETROFIT KIT	2	\$126.00
87F6410	BATTERY TL-5101/P LITHIUM 3.6V 1/2 AA AXIAL LEADS TADRIAN FIVE YEAR EXPIRATION FROM THE DATE	2	\$9.95
82941-60901(EX)	BCO INTERFACE	1	\$260.00
6640-890-0881	BEAKER 100ML	2	\$2.00
6640-890-0880	BEAKER 50ML	2	\$1.04
10531004	BEARING	2	\$10.58
S5MC7	BEARING LUBE L02 MPB BORE 0.0937 OD 0.3125 W 0.109	20	\$22.26
38HG33	BEARING (THRUST)	7	\$63.81
LF1680HH	BEARING BALL BORE 0.313 OD 0.630 W 0.197 FLANGED	6	\$6.67
38STX2K3011	BEARING BALL OILED BORE 0.3150 OD 0.8661 W 0.4060	1	\$63.64
100STX1K3011	BEARING BALL OILED BORE 0.3937 OD 1.0236 W 0.4531	3	\$98.87
S35SS3	BEARING BORE 0.1969 OD 0.7480 W 0.2362	8	\$38.44
77R4	BEARING BORE 0.250 OD 0.6250 W 0.1960 DOUBLE SHIELDED	7	\$1.22
S3KDD	BEARING BORE 0.375 OD 0.875 W 0.2812 DOUBLE SHIELDED H503 1089	2	\$6.31
SR6SS3G2	BEARING BORE 0.3750 OD 0.8750 W 0.2812	4	\$37.07
SF38-ZZ	BEARING BORE 0.3750 OD 0.8750 W 0.2812 FLANGED	8	\$6.31
L-1680	BEARING DDNR BEARING BORE 0.313 OD 0.630 W 0.2975	4	\$17.94
6203	BEARING DOUBLE SHILD BORE 0.6693 OD 1.5748 THICK 0.4724	2	\$4.61
29-23414-00	BEARING EDGE BORE 0.3525 OD 0.945 W 0.275	1	\$19.00
33004	BEARING FLANGETTE UNIT	2	\$14.95
83S0212R0090	BEARING KIT BORE 0.2500 OD 0.500 W 0.125 BALL	1	\$104.00
38KDD	BEARING PRECISION BARDEN 608Z BORE 0.3150 OD 0.8661 W 02756	4	\$4.64
38SS5G2	BEARING PRECISION BARDEN BORE 0.3150 OD 0.8661 W 0.2756	6	\$45.73
77R4A	BEARING RA4Z BORE 0.250 OD 0.750 W 0.2812 DOUBLE SHIELDED	4	\$7.73
401-0316-00	BEARING ROLLER	5	\$6.40
1410-1234	BEARING ROLLER SEALED HPC 7596	2	\$3.65
33003-2	BEARING WIRELOC S5PPG2 DATA PR BORE 0.5000 OD 1.125 W 0.3125	1	\$6.75
MRC R3FF	BEARINGS	2	\$7.64
9000635	BEIGE ANT-JAM STANDARD STAPLER	3	\$16.79
4L340	BELT	5	\$4.83
101768-001	BELT	3	\$8.40
C2106-40012	BELT CARRIAGE HPC 2276A	1	\$6.50
16784068-001	BELT POSITIVE DRIVE	2	\$14.50
02670-40052	BELT TIMING HPC 2673 2623	1	\$7.00
105808-001	BELT TIMING PTX P3240	5	\$4.20
12-12635-03	BELT DEC RM80 DISK RA81 RA82	2	\$3.00
30687537-501	BELT DRIVE	7	\$12.21
1500-0494	BELT DRIVE	1	\$14.00
1500-0662	BELT DRIVE TOOTHED	1	\$18.50
914000-001	BELT DRIVE 10X.4CM	4	\$2.00
14519	BELT DRIVE 15" X .468" TOOTHHEAD CT1200 VFU FEED PAPER FEED	2	\$12.84
1500-0666	BELT DRIVE 180X60MM TOOTHED	1	\$4.00
103188-001	BELT DRIVE 20 X .6CM PAPER FEED	1	\$11.00
230XL037	BELT DRIVE 23X.037IN TOOTHEDSHUTTLE PTX P600 P6080	1	\$3.25
403030701-3	BELT DRIVE 23X.7CM OPENER	1	\$9.00
214-2233-00	BELT DRIVE 35X.3CM AIR PUMP	3	\$10.00
801669-006	BELT DRIVE 3MM WIDE 132 TEETH DEC LP25/LP26 DPC B300 B600 B1000	2	\$4.00
5M-450	BELT DRIVE 45X.5CM	2	\$5.00
1500-0572	BELT DRIVE 6.25X.125 HP 85 PRINTER PAPER ADVANCE BELT	1	\$4.00
214-3577-00	BELT DRIVE 70X.7CM CARRIAGE	1	\$60.00
5M-825	BELT DRIVE 76X.5CM	2	\$5.00
136-750222-A	BELT DRIVE 7CMX2MM RIBBON DRIVE P2 P6 P7	2	\$0.44
54152805	BELT DRIVE 90X.5CM	2	\$8.00
C15501	BELT DRIVE CT1210 CHAIN	3	\$52.43
14096-015	BELT GATES 5M-400 DATA PRINT	2	\$12.00
30687537-504	BELT GEAR	1	\$6.45
970-1005	BELT PAPER SEPARATION	3	\$4.00
401-0261-00	BELT POS DR TEK 4631	2	\$8.50
1500-0529	BELT PRINthead HP85	3	\$7.25
29-24027-00	BELT RIBBON DRIVE LP25 DPC 300/600 800238-014	4	\$2.00
12-12635-03(EX)	BELT RM80 RA81 RA82	1	\$5.00
8-RG1-0328-020	BELT SEPARATOR QMS PSJET+	2	\$4.15
44A507867-001	BELT TIMING GNM FOR 4470 PRINTER	3	\$19.25
A6R6-1400250	BELT TIMING 11.42 X 1/4 IN.	2	\$2.87
A6R6-1450250	BELT TIMING 11.83X1/4 IN.	7	\$2.87
A6R6-3400250	BELT TIMING 28X1/4 IN.	7	\$4.18

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
6104	BELT TIMING DATA PRINTER	2	\$10.00
29-23423-00	BELT TIMING DEC LP-25	1	\$12.00
B14007	BELT TRACTOR DATA PRINTER	4	\$34.00
922-0620	BEZEL BLANK MACINTOSH 8100	1	\$1.80
922-0846	BEZEL CD DRIVE MINI-T	3	\$0.90
4040-0414	BEZEL METER H.P. 6113A REPLACES 4040-0295	2	\$3.74
09845-67961	BEZEL CARTRIDGE DRIVE	2	\$2.00
922-0811	BEZEL CD TRAY LOADING APM 8100	3	\$2.35
BEZEL	BEZEL HARDWARE FACEPLATE DISK BLACK HALF-HEIGHT	1	\$2.49
09845-66505	BEZEL INTERCONNECT	1	\$10.00
N234806	BIN BOX	41	\$0.49
N234804	BIN BOX 4"W X 12"L	23	\$0.41
1769	BINDER BLACK-COATED 1/2" CAPACITY 6 3/4" X 3 3/4" SHEET SIZE	1	\$4.42
5995	BINDER CLIP LARGE	14	\$0.21
6807	BINDER CLIP MEDIUM	35	\$0.06
8201	BINDER CLIP SMALL	183	\$0.05
2663	BINDER LOOSE-LEAF 1" THREE RING GRAY	10	\$2.62
2664	BINDER LOOSE-LEAF GREY 2"	59	\$2.60
5060-0634	BINDING POST RED	3	\$2.50
DRILL INDEX	BIT SET 4920E DRILL BITS	1	\$40.00
Y945B700	BIT SET TORX SECURITY	1	\$22.00
840T0072	BIT TORX T7	1	\$1.75
214-1935-01-CP	BLADE ROTARY P. CUTTER	1	\$5.00
214-1935-01	BLADE ROTARY P.CUTTER	1	\$150.00
214-1934-00	BLADE STAT.P. CUTTER	1	\$27.00
25597-60012	BLOCK SHORTING	1	\$49.00
70-22939-01(EX)	BLOWER BEZEL ASSEMBLY DEQ RA90/92	1	\$40.00
PE6008-50	BNC BNC-FEEDTHRU TERMINATION	2	\$23.95
39F1468	BNC CONNECTOR TWINAX	6	\$8.71
214-2219-00	BOLT TEE HEAD	2	\$1.00
BK1811	BOOK MICROSOFT WINDOWS 98 STEP BY STEP	1	\$16.50
BK1812	BOOK RUNNING MICROSOFT 98	1	\$23.00
MAC-BIBLE	BOOK APM MAC BIBLE W/ DISKETTE APPLE MACINTOSH REFERENCE	1	\$38.00
6952	BOOK MEMO FLEX SPIRAL NOTEBOOK BROWN 8 1/2 X 11 80 SHEETS CM	6	\$4.05
9366	BOOK MEMO RULED 3-1/2" X 5"	6	\$1.00
5494S	BOOK MEMORANDUM RULED BOUND SIDE OPENING 80 PAGES 7-7/8"X5-1/4"	2	\$6.82
07475-40002	BOOT PEN	8	\$4.00
6640-01-210-4482	BOTTLE PLASTIC SQUEEZE BOTTLE	3	\$1.45
41579LC	BOTTLE POLYETHYLENE 2 OZ. W/FLIP-TOP CAP	11	\$0.91
CU-2102-B	BOX BUD 4"X 2-1/8"X 1-5/8"	0	\$3.14
CU-2105-B	BOX BUD 5"X 4"X 3"	0	\$5.92
CU-2106-B	BOX BUD 5-1/4"X 3"X 2-1/8"	1	\$5.51
555-A00007-001	BRACKET	1	\$2.00
407-1409-02	BRACKET CKT BD	1	\$14.00
949-0203	BRACKET LEFT HEATER TERMINATOR LASER2 33440 33449	2	\$9.16
COMMON	BRACKET REAR PC SLOT COVER BLANK	9	\$1.49
805-0939	BRACKET APM APPLE MACSE MACSE30 EXPANSION SLOT SUPPORT	2	\$1.00
407-3131-00	BRACKET BLOWER TEK 4692	1	\$15.00
103172-001	BRACKET CONNECTOR P/S	1	\$9.00
971-0020	BRACKET DELIVERY ASSEMBLY FUSER EXIT ROLLER	3	\$34.95
330-1228	BRACKET DRIVE MOUNTING SNM 4/60 4/65 4/75 SPARE INTERNAL	1	\$40.00
101594-001	BRACKET FORM THICKNESS	1	\$6.00
805-5078	BRACKET HD MOUNTING MAC2CX APM APPLE	2	\$2.90
FKIT	BRACKET MOUNTING KIT UNIVERSAL FOR 3.5" FLOPPY AND HARD DISK DRIVES FRONT PANEL SNAPS O	4	\$2.89
551-100095-001	BRACKET POWER IN	1	\$50.00
72856100	BRAKE ASSY PA5A1A	1	\$95.00
120255	BREAKOUT BOX SAM DATA COMMUNICATION	1	\$100.00
2780012	BRIDGE RECTIFIER	1	\$9.00
4899-00-0037	BRIDGE RECTIFIER 4A	2	\$7.71
05F8140	BRIDGE RECTIFIER ECG5332 SK9230 VM18 600PRV	1	\$2.95
SK3647	BRIDGE RECTIFIER ECG167 200PRV 2A PTX FRS20 3L FBR820	3	\$2.36
DF02M	BRIDGE RECTIFIER FULLWAVE GENERAL INSTRUMENT DF02M 1 200V ECG5332	4	\$1.71
SK3988	BRIDGE RECTIFIER SK3988 600PRV 8A Z24 SQUARE PACK	2	\$5.10
152-0475-01	BRIDGE RECTIFIER TEK 4692	1	\$15.00
00085-60027(EX)	BRIGHTNESS CONTROL	1	\$36.00
7920-514-2417	BRUSH ACID GR 7920-00-514-2417	117	\$4.37
8020-262-9099	BRUSH ARTIST	4	\$0.86
1127-0002	BRUSH BRISTLE PACE	10	\$2.30
8020-597-5301	BRUSH SASH VARNISH	4	\$1.25
8020-264-3883	BRUSH SQUIRREL TAIL HAIR 1/4" WIDE	3	\$1.39
7510-550-8446	BRUSH TYPEWRITER WIDE BLACK PLASTIC BRUSH LOOKS LIKE A TOOTHBRUSH	7	\$3.69



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1127-0006	BRUSH WIRE PACE	5	\$3.40
RH7-4024	BULB HEATER 620W	2	\$7.82
4002	BULB 40W FROSTED APPLIANCE BULB	1	\$0.94
27-06-B550	BULGE TUBE .06X.550 INCH BULGED TUBULATION	129	\$0.70
27-07-B550	BULGE TUBE.04X.550 INCH BULGED TUBULATION	44	\$0.90
70-21266-01	BULKHEAD ASSEMBLY	2	\$198.00
551-100772-001	BULKHEAD ASSY MODACS/X PIO MOD 9088-4	1	\$500.00
551-100461-001	BULKHEAD ATC INTERFACE CABLE PLATE	1	\$1,075.00
SS-400-61	BULKHEAD UNION	2	\$11.90
517-SJ-5514BK	BUMPER FOOT FEET SELF ADHESIVE ORDER QUANTITY 1 PK= 64 EA	12	\$0.39
326068	BURST DISC RUPTURE DISC 1"STD(UL)ALUMINUM DISC 52 PSIG@ 72 DEG F 50-57 PSIG RANGE	5	\$26.67
8219	BUS WIRE SIZE 12 2' LENGTHS	23	\$0.78
8218	BUS WIRE SIZE 10 2' LENGTHS	3	\$0.40
8220	BUS WIRE SIZE 14 2' LENGTHS	5	\$0.22
16	BUS WIRE SIZE 16 2' LENGTHS	55	\$1.10
18	BUS WIRE SIZE 18 ISSUED PER FOOT FROM STOCK	100	\$0.10
20	BUS WIRE SIZE 20 ISSUED FROM WYLE STOCK PER FOOT	100	\$0.10
22	BUS WIRE SIZE 22 ISSUED PER FOOT FROM STOCK	100	\$0.10
101143-001	BUSHING	1	\$4.00
RB1-0325-PN	BUSHING FUSER	2	\$2.10
076-8131	BUSHING BEARING FAN APM LASER2 LONG BUSHING	90	\$1.00
74-15125-00	BUSHING ECCENTRIC	2	\$6.00
74-15125-00	BUSHING ECCENTRIC	2	\$7.00
RS1-1019	BUSHING HOT ROLLER	4	\$2.95
FS1-1046-000CN	BUSHING LOWER EXIT ROLLER ASSY HPC 2686	2	\$3.60
401-0227-00	BUSHING MACH	1	\$10.00
358-0439-00	BUSHING MOUNTING TEK 4014-1	2	\$1.00
RS1-1040	BUSHING PRESSURE ROLLER	2	\$3.00
102094-001	BUSHING TRACTOR ADJUST	1	\$5.00
815-0737	BUTTON RESET	3	\$3.00
12-18204-02	BUTTON GROUND	1	\$51.00
29F633	BUTTON PLUG	10	\$0.85
5041-1203	BUTTON POWER	2	\$1.00
140C-ND	BUZZER 9-15VDC SIZE 23MML X 15MMW X 13.5MMH	1	\$2.88
BC05H	CABLE	1	\$1.00
8120-3713	CABLE	1	\$5.00
09872-60543	CABLE	2	\$7.00
012-0911-00	CABLE	1	\$10.00
535100410-002	CABLE	1	\$10.00
17-00318-02	CABLE	1	\$20.00
535-100462-003	CABLE	1	\$35.00
535-100461-001	CABLE	1	\$40.00
085-918101	CABLE 20 COND. HDR/HDR 2.5"	2	\$10.00
8120-2577	CABLE 5 INCH	2	\$31.00
590-0188	CABLE APM APPLE 3.5" FLOPPY DRIVE MAC 2 MAC2X	4	\$8.10
590-0552	CABLE APM IW II SERIAL MAC II APPLE DIN 8 TO DIN 8	2	\$13.50
17-01277-01(EX)	CABLE ASSEMBLY REAR RA90/92 FLEX	1	\$17.00
BC08R	CABLE DR11 TURNARND	1	\$20.00
085-909700	CABLE FLAT W/ 34 PIN IDS 0.050" FEMALE CONNECTORS AT EACH END	2	\$15.00
630-6273	CABLE FLEX ACTIVE MATRIX DISPLAY PB170 PB180 APM	4	\$10.80
530-1825	CABLE FLEX CIRCUIT UNIT SELECT SNM	1	\$25.00
02932-60019	CABLE HEAD AY.	1	\$72.50
590-0551	CABLE IMAGewriter II MACINTOSH APM SERIAL PRINTER MAC APPLE	3	\$15.30
590-0167	CABLE INTERNAL FLOPPY DRIVE 800K APM RED STRIPE	3	\$9.00
590-0505	CABLE POWER SUPPLY INTERNAL HDA APM APPLE MAC2 MAC2X	4	\$8.10
CA806-1M	CABLE SCSI 1 METER DB50 MALE TO CENTRONIX 50P MALE	1	\$24.00
95F2273	CABLE SCSI 50-WIRE CABLE CENT 50 TO CENT 50 MALE CENTRONICS 50 MALE TO 50 MALE	1	\$14.95
6404	CABLE SCSI2 TO CENTRONICS SCSI 1.5 FT SNM SCG DEQ	1	\$22.95
87-630	CABLE VIDEO VGA COMPUADD	2	\$29.99
535-100011-001	CABLE 10FT	8	\$51.00
6561	CABLE 2 FT SCSI2 TO 50P TO SCSI2 INTERNAL FOR SCSI ENCLOSURE	1	\$65.00
45480	CABLE 4 PIN POWER MALE TO FEMALE	3	\$1.20
085-917600	CABLE 40 CONDUCTOR 40P HDR/HDR/HDR 3.25 INCH.	1	\$34.00
70-18447-00	CABLE 40P FLAT DEC	1	\$48.00
87F2994	CABLE 6.6 FT GPIB IEE488 CABLE	2	\$115.00
CF-8-OFV	CABLE 8FT THERMO GAUGE TUBE	3	\$72.00
371433651	CABLE A/D TO CTRL LOGIC NEFF 16P RIBBON	2	\$27.20
3006	CABLE ACCELEROMETER	1	\$129.00
98910	CABLE ADAPTER 5 1/4 - 3 1/2 FLOPPY POWER FEMALE TO FEMALE	1	\$0.80
371433583	CABLE ANALOG INTERCONNECT	1	\$68.70
M0206	CABLE APM APPLE SYSTEM CABLE SCSI	1	\$25.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
590-0705	CABLE APPLE SCSI CABLE TERMINATOR II MACIIFX BLACK APM MAC2FX      MAC MACINTOSH	3	\$13.50
535-100185-001	CABLE ASSEMBLY	1	\$10.00
535-100486-004	CABLE ASSEMBLY	1	\$10.00
535-100411-002	CABLE ASSEMBLY	2	\$10.00
535-10016-019	CABLE ASSEMBLY	5	\$10.00
535-100041-001	CABLE ASSEMBLY	1	\$14.00
535-A00082-001	CABLE ASSEMBLY	3	\$50.00
535-A00095-001	CABLE ASSEMBLY	4	\$50.00
535-100049-001	CABLE ASSEMBLY	1	\$100.00
535-100297-002	CABLE ASSEMBLY	1	\$100.00
535-100341-001	CABLE ASSEMBLY	2	\$125.00
590-0210-01	CABLE ASSEMBLY VIDEO CABLE	1	\$26.00
SG4-6271	CABLE ASSEMBLY HP11 DISPLAY LASERJET 2 33440	2	\$1.99
RG1-0908	CABLE ASSEMBLY LASER SCANNER LASER2 33440 33449	1	\$29.95
535-100083-003	CABLE ASSEMBLY P.S.JUMP	1	\$10.00
600349	CABLE ASSEMBLY PREFABRICATED FLAT RIBBON	1	\$38.19
012-0400-00	CABLE ASSEMBLY TEK 4014-1	1	\$300.00
29-25542-00(EX)	CABLE ASSEMBLY VR290	1	\$64.00
IOIS	CABLE ASSEMBLY WRAPPED	1	\$10.00
C1	CABLE ASSY	1	\$15.00
175-8430-00	CABLE ASSY	2	\$20.00
535-100044-002	CABLE ASSY	1	\$270.00
17-00428-02	CABLE ASSY 16 COND. FLAT VT240 DC POWER	1	\$38.00
17-00280-00	CABLE ASSY 16COND CT-150	1	\$10.92
77034441	CABLE ASSY 92185 W6 READ HEAD DEQ TU81	1	\$24.00
77015562	CABLE ASSY CDC 92185 W5 WRITE HEAD DEQ TU81	1	\$50.00
8529159	CABLE ASSY DISKETTE	2	\$25.00
535-100974-001	CABLE ASSY EIX MOD 9088-4	1	\$50.00
37143488A	CABLE ASSY FRONT CONTROL PANEL	1	\$41.60
101501-001	CABLE ASSY I/O	1	\$50.00
535-100973-001	CABLE ASSY IEEE XITION MOD 9088-4	3	\$100.00
535-100036-001	CABLE ASSY IOIS	1	\$60.00
535-A0043-001	CABLE ASSY J1	1	\$2.00
535-100411-001	CABLE ASSY MODACS BACKPLANE MOD MODACS MODACS/X	1	\$25.00
668-800020-003	CABLE ASSY MODACS/X CONTROL MOD 9088-4	1	\$150.00
668-800021-003	CABLE ASSY MODACS/X PIO BUS MOD 9088-4	1	\$500.00
535-100410-002	CABLE ASSY MODC	1	\$10.00
535-101020-001	CABLE ASSY SCSI MOD 9088-4	1	\$100.00
922-0842	CABLE CD-ROM CDROM AUDIO MINI-T APM APPLE CD	1	\$0.90
4111-02	CABLE CONTROL CONTRAST BRIGHTNESS	1	\$3.00
012-0400-00	CABLE DATA CABLE ASSEMBLY	1	\$300.00
38210	CABLE DB9 SHIELDED MALE/MALE STRAIGHT THROUGH 6FT MONITOR      MONO CGA EGA	2	\$3.87
234380-001	CABLE DC ASSEMBLY	1	\$50.00
29-25545-00	CABLE DEC EHT CABLE ASSY VR290	4	\$105.00
70-21477-01	CABLE DEFLECTION VIDEO LED	1	\$107.00
BC11A-15	CABLE DEQ	3	\$100.00
BC26V-25	CABLE DEQ RA90 RA80 25'	2	\$50.00
WYLE12	CABLE DIB OUT TEST	1	\$10.00
38342	CABLE DISK DRIVE Y CABLE POWER ADAPTER HDA APM CLONE CONNECTOR 1      MALE TO 3 FEMALE 4PIN	5	\$1.00
IDE	CABLE DISK FIXED HARD IDE HDA AT TWO-DRIVE 40P	2	\$4.00
630-6280	CABLE DISPLAY CABLE BACKLIT PORTABLE	1	\$22.50
8529253	CABLE EXPANSION CHASSIS	1	\$33.00
8529253	CABLE EXPANSION IBM PC	1	\$175.00
03497-61650	CABLE EXTENDER	1	\$43.00
BC11A-10	CABLE EXTENDER	3	\$100.00
8286146	CABLE EXTERNAL	1	\$21.00
530-1435	CABLE EXTERNAL SCSI 50PIN SCSI2 50P 50PIN "D" TO      SCSI 2	2	\$75.00
BC182-25	CABLE EXTERNAL VIDEO VR290 15P TO 3 BNC CONNECTORS RGB	2	\$50.00
RH2-5108	CABLE FIBER OPTIC CABLE LASER2	2	\$13.50
8529271	CABLE FIXED DISK CT	1	\$43.00
535-100411-003	CABLE FLAT PIO	2	\$15.00
41925	CABLE FLAT RIBBON 25P	73	\$0.13
43810	CABLE FLOPPY DISK IBM AT CLONES	2	\$1.00
42280	CABLE FLOPPY DISK IBM PC IBM XT CLONES	2	\$7.66
922-0780	CABLE FLOPPY TO LOGIC BOARD APM APPLE POWERBOOK PB540 PB540C	9	\$1.53
103311-001	CABLE HAMMER BANK	1	\$60.00
HD1	CABLE HARD DISK CONTROL FIXED DISK 34P XT	4	\$3.95
HD2	CABLE HARD DISK DATA FIXED DISK 20 PIN	9	\$1.95
590-0566	CABLE HARD DRIVE INTERNAL MAC II CABLE APM SCSI DATA HARD DRIVE INTERNAL MAC2 MAC2X	3	\$9.00
02620-60021	CABLE HARNESS HP2621	1	\$15.00
590-0517	CABLE HDA POWER Q900/950 APM	3	\$3.60

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
922-0779	CABLE HDA TO LOGIC BOARD PB520 PB540 PB540C APM APPLE POWERBOOK	1	\$15.30
590-0717	CABLE HDI-30 SCSI SYSTEM APM POWERBOOK INTERFACE CABLE EXTERNAL	3	\$21.60
12009-60009	CABLE HPIB HPC 2250	1	\$200.00
535-100044-001	CABLE I/O	1	\$265.00
551-100531-003	CABLE INT I/O BUS	1	\$10.00
922-1113	CABLE INTERCONNECT TO DISPLAY APM APPLE POWERBOOK PB540	2	\$25.00
076-0467	CABLE INTERCONNECT TO DISPLAY PB540C APM POWERBOOK APPLE	2	\$12.00
590-0607	CABLE INTERNAL 1.4MB FLOPPY MAC2CX APPLE	1	\$7.24
590-0609	CABLE INTERNAL HDA MAC2CX APPLE CABLE APM APPLE HDA INTERNAL SCSI DATA MAC2CX	2	\$9.00
17-03487-01	CABLE INTERNAL SCSI	1	\$36.00
590-0152	CABLE KEYBOARD APPLE APM MAC2FX 2 CX CI 2 METER	3	\$8.10
101497-001	CABLE LOGIC	1	\$12.00
17-00120-00	CABLE LOGIC PS-KB	2	\$25.00
M3106-C	CABLE M3106 25FT RS232	1	\$95.00
5975-085-3000	CABLE MARKER 100-124	6	\$0.41
9905-989-1497	CABLE MARKER 125-149	24	\$0.76
9905-345-3785	CABLE MARKER 1-33 BRADY MARKERS EST.COST \$.51	5	\$0.51
9905-989-1498	CABLE MARKER 150-174	8	\$0.76
9905-989-1499	CABLE MARKER 175-199	12	\$0.78
7690-842-6675	CABLE MARKER 34-66	2	\$0.46
7690-842-6676	CABLE MARKER 67-99	8	\$0.38
5975-989-1491	CABLE MARKER A-E	6	\$0.50
5975-989-1492	CABLE MARKER F-J	3	\$0.47
5975-964-3044	CABLE MARKER K-O	2	\$0.82
5975-989-1494	CABLE MARKER P-T	2	\$0.58
5975-989-1495	CABLE MARKER U-Z	14	\$0.75
12071-60003	CABLE MCI HPC 2250	1	\$110.00
47001000	CABLE MPI PA8XX DISK DRIVE	1	\$10.00
105003-001	CABLE MPU	1	\$13.00
1519	CABLE NEC VIDEO DB-9 MALE TO HD-15 MALE MULTISYNC NEY VGA	1	\$4.95
371433614	CABLE NEFF FRONT PANEL 620600 60PIN 60P RIBBON	2	\$62.00
4633	CABLE NIPPLE ELECTRICAL RED	110	\$0.10
5975-557-2531	CABLE NIPPLE RED FOR LARGE ALLIGATOR CLIP #85	5	\$0.05
89F2504	CABLE NYLON CABLE TIE MOUNT BASE TIEDOWN	29	\$0.49
50F6378	CABLE PARALLEL PRINTER 25"	1	\$12.29
8120-1348	CABLE POWER	3	\$4.34
C2	CABLE POWER ASSY	1	\$5.00
6150-968-0081	CABLE POWER EXTENSION POWER CORD	3	\$4.37
4111-03	CABLE POWER SUPPLY	1	\$8.00
05-0164-001	CABLE POWER SUPPLY	1	\$10.00
70-14978-01	CABLE POWER SUPPLY	1	\$15.00
70-20450-01	CABLE POWER SUPPLY	2	\$15.00
590-0511	CABLE POWER SUPPLY MACINTOSH PLUS	2	\$12.00
535-100412-001	CABLE POWER SUPPLY MOD MODACS	2	\$50.00
3440-A	CABLE PRESS ASSEMBLY CABLE CONNECTOR	1	\$5.00
329	CABLE PRINTER 10' PARALLEL CENTRONIX TO 25PIN MALE	2	\$6.00
29-24258-00	CABLE PRINthead	1	\$26.00
102349-002	CABLE RIBBON	1	\$5.00
499116-5	CABLE RIBBON 40C 40P .050IN X 40	49	\$0.71
723-1	CABLE RIBBON 60P 60 CONDUCTOR 28 AWG 10 FT FOOT	5	\$16.00
105004-001	CABLE RIBBON CONTROLLER	1	\$15.00
171-34	CABLE RIBBON FLAT 34P 100FT ISSUED F/STOCK PER FOOT	37	\$0.70
BC22D-50	CABLE RS232 50FT	1	\$50.00
17-03488-01	CABLE SCSI TWISTED PAIR	1	\$14.00
SCSI-60-3D	CABLE SCSI I/O INTERFACE RIBBON INTERNAL	1	\$55.00
17-02439-01(EX)	CABLE SCSI INTERNAL 3100-V	1	\$25.00
658-8034	CABLE SCSI PERIPHERAL 590-0306 590-0346 50P TO 50P BR50-50 MALE TO MALE CENTRONIX TO CENTRO	10	\$19.80
8509386	CABLE SERIAL ATTACHMENT IBM PS/2 799-193	2	\$28.00
82939-60901(EX)	CABLE SERIAL INTERFACE	2	\$60.00
9732	CABLE SIGNAL 9 SHIELDED PAIRS	80	\$1.50
530-1356	CABLE SUN DAISY CHAIN EXTERNAL SMD OPTION 646	1	\$20.00
530-1172-03	CABLE SUN POSTSCRIPT PRINTER INTERFACE RS-232 MALE TO MALE 25P	1	\$70.00
658-8031	CABLE SYSTEM SCSI APM APPLE EXTERNAL 25PIN DB TO 50PIN CENTRONIX MACINTOSH	2	\$25.20
175-9870-00	CABLE TEK KEYBOARD	1	\$50.00
03495-61605	CABLE TEST ASSEMBLY	1	\$60.00
530-1253-01	CABLE THIN ETHERNET SUN	1	\$45.00
6292	CABLE TIE MOUNT LARGE BASE TIEDOWN	101	\$0.46
5153	CABLE TIE WRAP MINIATURE TY WRAP TY-WRAP TIE	540	\$0.01
5001	CABLE TY-WRAP TIE WRAP EXTRA LARGE TY WRAP	97	\$0.05
2072	CABLE TY-WRAP TIE WRAP LARGE TY WRAP	140	\$0.01
3208	CABLE TY-WRAP TIE WRAP MEDIUM TY WRAP	440	\$0.01

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
BC18P-10	CABLE VCB01(M7602-YA) DEC INTERNAL CABLE PATCH TO M7602-YA	1	\$75.00
1532	CABLE VGA 15/15 HD15 MALE TO HD15 MALE 15P MALE TO 15P MALE 6' CABLE	1	\$2.50
61X8888	CABLE VGA VIDEO 8512	3	\$15.00
BCC03-06	CABLE VIDEO	2	\$45.00
SLA-VC	CABLE VIDEO	2	\$60.00
530-1336	CABLE VIDEO 4.6M SNM MONO	1	\$70.00
590-4161	CABLE VIDEO APM MAC2RGB HI-RES 15PIN 15P VIDEO CABLE	1	\$20.70
17-00283-00	CABLE VIDEO INTERFACE VS240	2	\$25.00
530-1125	CABLE VIDEO MONO 3' DB-9-DB-9 5NM 29M 3/60 3/XXX	2	\$50.00
73893083	CABLE VIDEO NEY MULTISYNC 5D JC2002 DB15M - HD15M JC1601VMA NEC 4D VGA	1	\$105.50
0006939-0001	CABLE VIDEO SUPERMAC APM APPLE RGB	3	\$39.00
17-00568-01(UT)	CABLE VR260 VIDEO 10FT	1	\$65.00
5021-1302(EX)	CABLE WITH CONNECTOR	1	\$10.00
17-01547-01(EX)	CABLE WITH CONNECTORS FOR RA90/92 ECM TO HDA	1	\$17.00
09872-60018	CABLE X DRIVE	1	\$6.00
09872-60015	CABLE Y TRAILING HP7982	1	\$40.00
1300001(EX)	CAGE POWER SUPPLY SLA 100XL	1	\$135.00
DI-2-ETHYLHEXYL SEB	CALIBRATION FLUID	1	\$33.00
M5031A	CALIBRATION VOID IF SEAL BROKEN SQUARE LABEL	2	\$19.95
401-0229-01	CAM CUTTER	1	\$2.00
401-0229-01	CAM CUTTER ACTR	1	\$25.00
53534063	CAM PRESSURE RELEASE LEFT DEQ LN03 RIA LP4080	1	\$1.50
53534064	CAM PRESSURE RELEASE RIGHT DEQ LN03 RIA LP4080	1	\$1.75
1672-10S	CAN AEROSOL COOLER TECH SPRAY DETECTOR FREEZE CHILLER	36	\$6.95
MS-122	CAN AEROSOL LUBRICANT DRY RELEASE AGENT	5	\$10.50
MS-160	CAN AEROSOL SOLVENT FREON TP35	6	\$10.50
51015	CAP 100PF	2	\$5.00
400033	CAP 12 000UF 35V	1	\$11.15
500150	CAP 4.7UF 50V	2	\$5.00
366-0554-00	CAP KEY/SWITCH TEK 4111 4017 4109	6	\$0.80
RA-7628-000CN	CAP SPRING HPC 33471	1	\$0.95
41080EK	CAP BLACK SOLID FOR 2OZ BOTTLES	12	\$0.18
12-18199	CAP ENCODERIREADYI	4	\$3.00
948-0034	CAP HOT ROLLER FUSER ASSY LASER2 GROUNDING	2	\$6.70
815-6237	CAP ON/OFF SWITCH MAC 2	2	\$1.50
07470-40016	CAP PGN LEFT BAR	1	\$1.00
160101-471	CAP PLATE ASSEMBLY	1	\$38.00
259P-1/4	CAP POLYFLO 1/4	50	\$0.79
12-12714-03	CAP SWIAI	20	\$3.00
12-12714-04	CAP SWIBI	19	\$3.00
12-12714-02	CAP SWIFALTI	20	\$3.00
12-12714-01	CAP SWIPROTI	20	\$3.00
12-12714-00	CAP SWIRUNI	19	\$3.00
70-18476-01	CAP/RECT ASSY DEC RA60	1	\$382.00
DD30-102	CAPACITOR .001UF 3KV RADIAL DSIK	3	\$2.49
500135	CAPACITOR .003827UF 200V PC 2% RADIAL	2	\$7.50
500138	CAPACITOR .00664UF 150V PC 2% RADIAL	2	\$5.00
500141	CAPACITOR .00721UF 150V PC 2% RADIAL	2	\$5.00
500132	CAPACITOR .009938UF 100V PC 2% RADIAL	2	\$7.50
140-CD50Z9-104Z	CAPACITOR .1UF 50V CERAMIC RADIAL	2	\$0.98
283-0479-00	CAPACITOR .47UF 25V RADIAL	3	\$0.85
89F1694	CAPACITOR .47UFD 63V	1	\$0.88
500180	CAPACITOR 0.22MFD 100V	1	\$5.00
500157	CAPACITOR 0.68UF RADIAL	4	\$8.20
852-1798	CAPACITOR 100UF 100V 100C RADIAL	4	\$3.15
46-416	CAPACITOR 1UF 250V ELECTROLYTIC RADIAL	7	\$0.18
2.2UF	CAPACITOR 2.2UF 35V TANTALUM RADIAL	8	\$0.37
BP2.2MFD-50V	CAPACITOR 2.2UF 50V NON-POLAR HIGH FREQ RADIAL	2	\$0.80
63UK220	CAPACITOR 220UF 63V ELECTROLYTIC RADIAL	5	\$1.17
46-406	CAPACITOR 22UF 50VDC BI-POLAR HF RADIAL	3	\$3.29
3.3UF	CAPACITOR 3.3UF 160V RADIAL ELECTROLYTIC 105DEG	3	\$0.77
P5303-ND	CAPACITOR 330UF 100V RADIAL 105 DEGREE ELECTROLYTIC	2	\$1.84
330UF-50V	CAPACITOR 330UF 50V ELECTROLYTIC AXIAL	3	\$0.48
647-JVZ1J471MHH	CAPACITOR 470UF 63V RADIAL	4	\$0.92
47/250	CAPACITOR 47UF 250V ELECTROLYTIC RADIAL POLARIZED	2	\$1.87
47F2051	CAPACITOR 5800 MFD 40 VDC ELECTROLYTIC CAN	1	\$6.16
46-917	CAPACITOR 6.8UF 25V BIPOLAR RADIAL	2	\$2.99
63UK6R8	CAPACITOR 6.8UF 63V ELECTROLYTIC RADIAL	2	\$1.94
998-1338	CAPACITOR 6800UF 16V RADIAL ELECTROLYTIC	2	\$4.40
16UK4700	CAPACITOR ELECTROLITIC 4700UF 16V	2	\$2.78
250UK2R2	CAPACITOR ELECTROLYTIC 2.2 UF 250V RADIAL LEADS	3	\$1.01

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
P10111-ND	CAPACITOR ELECTROLYTIC RADIAL 820UF 200V 105C PANASONIC TYPE TSHB	1	\$7.08
6.3V 10000MF	CAPACITOR ELECTROLYTIC TUBLAR 6.3V 10000MF RADIAL	1	\$3.39
400041	CAPACITOR ELECTROLYTIC 15000UF 35V RADIAL	1	\$19.50
5982-15-500V430	CAPACITOR MICA 430PF	2	\$1.34
5982-19-500V910	CAPACITOR MICA 910UF	2	\$1.23
2010415	CAPACITOR MYLAR .1 UF AXIAL	2	\$5.00
23PS212	CAPACITOR POLYSTYRENE 1200 PF.	4	\$0.24
23PS118	CAPACITOR POLYSTYRENE 180 PF.	2	\$0.24
23PS156	CAPACITOR POLYSTYRENE 560 PF	3	\$0.22
44F2345	CAPACITOR SPRAGUE TYPE 53D472G035HL6 4700MF 35VDC AXIAL	3	\$3.90
74-199D35V10	CAPACITOR TANTALUM 10UF 35V	6	\$0.70
281-0122-00	CAPACITOR VAR. CER DI 2.5-9 PF 100V. REF. DES. C426.	4	\$9.00
281-0123-00	CAPACITOR VAR. CER DI 5-25 PF 100V C133 C233 C275	1	\$8.00
50F3946	CAPACITOR VARIABLE 4-34 PF.	2	\$0.60
281-0161-00	CAPACITOR VARIABLE 5-15 PF. REF. DES. C70.	2	\$3.00
225P15291WD3	CAPACITOR .0015UF 100V FILM RADIAL SPRAGUE	5	\$0.85
225P15292XD3	CAPACITOR .0015UF 220V FILM RADIAL SPRAGUE	4	\$1.10
102KUF100V	CAPACITOR .001UF 100V FILM RADIAL	2	\$0.09
C16MYL102	CAPACITOR .001UF 1600V FILM RADIAL	1	\$1.32
225P10292XD3	CAPACITOR .001UF 200V FILM RADIAL SPRAGUE	3	\$0.94
225P10294XD3	CAPACITOR .001UF 400V FILM RADIAL SPRAGUE	5	\$1.05
220P6PS-D10	CAPACITOR .001UF 600V FILM RADIAL SPAGUE	3	\$2.00
283-0033-00	CAPACITOR .001UF 6KV TEK 4051 AXIAL	5	\$1.25
225P22291WD3	CAPACITOR .0022UF 100V FILM RADIAL SPRAGUE	1	\$0.38
222KUF100V	CAPACITOR .0022UF 100V POLYESTER FILM NICHICON RADIAL	7	\$0.44
225P22292XD3	CAPACITOR .0022UF 200V FILM RADIAL SPRAGUE	12	\$1.35
539-HT222M	CAPACITOR .0022UF 3000V RADIAL	3	\$0.26
225P22294XD3	CAPACITOR .0022UF 400V FILM RADIAL SPRAGUE	4	\$1.47
220P6PS-D22	CAPACITOR .0022UF 600V FILM RADIAL SPRAGUE	16	\$2.02
500156	CAPACITOR .0033UF 150V PC 5% RADIAL	3	\$3.00
225P33292XD3	CAPACITOR .0033UF 200V FILM RADIAL SPRAGUE	9	\$0.70
QYX1H332KTP	CAPACITOR .0033UF 50/100V FILM RADIAL NICHICON	5	\$0.65
225P47292XD3	CAPACITOR .0047UF 200V FILM RADIAL SPRAGUE	9	\$0.80
150D472-35V	CAPACITOR .0047UF 35V TANTALUM AXIAL POLAR SPRAGUE	24	\$0.75
WMF4D47	CAPACITOR .0047UF 400V FILM AXIAL CORNELL DUBILIER	2	\$1.10
222PX400DC	CAPACITOR .0047UF 400V FILM RADIAL CORNELL DUBILIER	9	\$1.70
220P6PS-D47	CAPACITOR .0047UF 600V FILM RADIAL SPRAGUE	2	\$1.16
283-0101-00	CAPACITOR .0047UF 6KVDC CERAMIC AXIAL	1	\$3.65
5000PF3000V	CAPACITOR .005UF 3000VDC CERAMIC RADIAL 5000PF3000V GENERAL PURPOSE	1	\$0.69
225P68291WD3	CAPACITOR .0068UF 100V FILM RADIAL SPRAGUE	1	\$1.45
500159	CAPACITOR .0068UF 150V PC 5% RADIAL	4	\$5.60
225P68292XD3	CAPACITOR .0068UF 200V FILM RADIAL SPRAGUE	4	\$1.00
283-0043-00	CAPACITOR .0068UF 3000V AXIAL	1	\$1.25
225P15391WD3	CAPACITOR .015UF 100V FILM RADIAL SPRAGUE	3	\$1.23
225P15392XD3	CAPACITOR .015UF 200V FILM RADIAL SPRAGUE	8	\$0.98
220P4PS-S15	CAPACITOR .015UF 400V FILM RADIAL SPRAGUE	4	\$2.00
300030	CAPACITOR .015UF-1600V ISC 8001 RADIAL	3	\$2.97
100V.01M	CAPACITOR .01M 100V RADIAL	2	\$1.60
1MF100V	CAPACITOR .01MF 100V RADIAL	6	\$1.50
285-0510-00	CAPACITOR .01MF 400V RADIAL	2	\$0.56
651-100006-001	CAPACITOR .01UF 100V DISK CERAMIC RADIAL	2	\$0.20
225P10391WD3	CAPACITOR .01UF 100V FILM RADIAL SPRAGUE	3	\$0.72
225P10392XD3	CAPACITOR .01UF 200V FILM RADIAL SPRAGUE	3	\$1.10
283-0105-00	CAPACITOR .01UF 2KV TEK 4012 RADIAL	2	\$3.00
PVC411	CAPACITOR .01UF 400V FILM RADIAL MAL LORY	2	\$1.01
PVC611	CAPACITOR .01UF 600V FILM RADIAL MALLORY	3	\$2.06
223KUF200V	CAPACITOR .022UF 200V FILM RADIAL NICHICON	2	\$0.80
150D223-35V	CAPACITOR .022UF 35V TANTALUM AXIAL POLAR SPRAGUE	19	\$0.30
225P22394XD3	CAPACITOR .022UF 400V FILM RADIAL SPRAGUE	1	\$1.05
121-0117	CAPACITOR .022UF 40V 100V MYLAR RADIAL 1PKG HAS 10 CAPACITORS	3	\$0.20
QYX1H223KTP	CAPACITOR .022UF 50/100V FILM RADIAL NICHICON	6	\$0.75
QXJ2J223KTPT	CAPACITOR .022UF 630V FILM RADIAL MALLORY	6	\$2.10
PVC1133	CAPACITOR .033UF 100V FILM RADIAL MALLORY	5	\$0.90
225P33391WD3	CAPACITOR .033UF 100V FILM RADIAL SPRAGUE	2	\$0.85
WMF2S33	CAPACITOR .033UF 200V FILM AXIAL CORNELL DUBILIER	3	\$1.00
PVC2133	CAPACITOR .033UF 200V FILM RADIAL MALLORY	4	\$1.00
225P33394XD3	CAPACITOR .033UF 400V FILM RADIAL SPRAGUE	2	\$2.02
500155	CAPACITOR .033UF RADIAL	10	\$5.00
285-1185-00	CAPACITOR .047PF 1000V CERAMIC RADIAL	1	\$1.00
QYX2A473KTP	CAPACITOR .047UF 100V FILM RADIAL NICHICON	3	\$0.17
225P47391WD3	CAPACITOR .047UF 100V FILM RADIAL SPRAGUE	2	\$0.88

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
PVC4147	CAPACITOR .047UF 400V FILM RADIAL MALLORY SPRAGUE	2	\$2.05
220P6PS-S47	CAPACITOR .047UF 600V FILM RADIAL SPRAGUE	2	\$1.10
MP6166	CAPACITOR .066UF 600V FILM RADIAL MALLORY	1	\$2.12
225P68391WD3	CAPACITOR .068UF 100V FILM RADIAL SPRAGUE	3	\$1.12
PVC2168	CAPACITOR .068UF 200V FILM RADIAL MALLORY	4	\$1.20
WMF4568	CAPACITOR .068UF 400V FILM AXIAL CORNELL DUBILIER	3	\$2.09
500158	CAPACITOR .068UF RADIAL	5	\$5.85
DMT1P1	CAPACITOR .10UF 100V FILM RADIAL CORNELL DUBILIER (CDE)	9	\$0.28
PVC101	CAPACITOR .10UF 100V FILM RADIAL MALLORY	2	\$0.90
500223	CAPACITOR .120UF NEF600 SERIES RADIAL	5	\$7.50
PVC1015	CAPACITOR .15UF 100V FILM RADIAL MALLORY	8	\$0.92
220P2PS-P15	CAPACITOR .15UF 200V FILM RADIAL SPRAGUE	2	\$1.00
225P1549YD3	CAPACITOR .15UF 400V FILM RADIAL SPRAGUE	2	\$2.97
5499	CAPACITOR .1UF 100V CERAMIC RADIAL M39014/02-1350 GENERAL PURPOSE	4	\$0.26
2642	CAPACITOR .1UF 250V PLASTIC AXIAL WEST-CAP	2	\$0.98
QXJ2E104KTPT	CAPACITOR .1UF 250VDC FILM RADIAL NICHICON	9	\$0.34
551-0.1C35	CAPACITOR .1UF 35V ELECTROLYTIC POLARIZED CHIP	3	\$1.00
651-100002-050	CAPACITOR .1UF 50V MODCOM AXIAL	4	\$0.71
0160-4084	CAPACITOR .1UF 50V RADIAL MONO HP9845B	2	\$0.74
46F3637	CAPACITOR .1UF 80V FILM AXIAL MALLORY 150104J100BA	2	\$0.48
225P22492XD3	CAPACITOR .22UF 200V FILM RADIAL SPRAGUE	4	\$1.04
PVC4022	CAPACITOR .22UF 400V FILM RADIAL MALLORY	4	\$2.11
46F7314	CAPACITOR .22UF 50V TANTALUM AXIAL MALLORY P/N 224K050P01	3	\$0.43
32	CAPACITOR .22UF 50V TANTALUM AXIAL POLAR SPRAGUE	4	\$1.06
CTM274VBJ	CAPACITOR .27MF 100V AXIAL	1	\$1.40
PVC1033	CAPACITOR .33UF 200V FILM RADIAL	2	\$1.02
WMF2P33	CAPACITOR .33UF 200V RATED 250V FILM AXIAL CORNELL DUBILIER	2	\$2.97
551-.33C35	CAPACITOR .33UF 35V ELECTROLYTIC POLARIZED CHIP	4	\$1.00
QXJ2G334KTPT	CAPACITOR .33UF 400V FILM RADIAL NICHICON	4	\$2.15
500154	CAPACITOR .33UF RADIAL	2	\$8.60
.47UF250V	CAPACITOR .47UF 250V RADIAL	4	\$1.82
225P47491XD3	CAPACITOR .47UF 100V FILM RADIAL SPRAGUE	6	\$0.48
PROE474J1	CAPACITOR .47UF 200V AXIAL	1	\$1.50
350D474-35V	CAPACITOR .47UF 35V ELECTROLYTIC AXIAL POLAR SPRAGUE	5	\$0.45
225P4794YD3	CAPACITOR .47UF 400V FILM RADIAL MALLORY	2	\$2.17
50V.47UF	CAPACITOR .47UF 50V RADIAL ELECTROLYTIC	2	\$0.46
PVC1068	CAPACITOR .68UF 100V FILM RADIAL MALLORY	3	\$1.95
225P68492YD3	CAPACITOR .68UF 200V FILM RADIAL SPRAGUE	3	\$1.20
8169	CAPACITOR .68UF 50V TANTALUM AXIAL POLAR SPRAGUE	10	\$1.00
500220	CAPACITOR .814UF NEF600 SERIES RADIAL	3	\$7.50
500160	CAPACITOR 0.001UF 63V MYLAR RADIAL	1	\$1.00
500177	CAPACITOR 0.0047UF 63V MYLAR	2	\$5.00
500179	CAPACITOR 0.015UF 100V MYLAR	2	\$5.00
500178	CAPACITOR 0.01UF 100V MYLAR	1	\$1.00
500142	CAPACITOR 0.01UF 63V MYLAR RADIAL	2	\$1.00
500134	CAPACITOR 0.03827UF 50V 2% PC RADIAL	10	\$7.50
500137	CAPACITOR 0.06640UF 30V PC 2% RADIAL	3	\$7.50
500140	CAPACITOR 0.07210UF 30V PC 2% RADIAL	2	\$7.50
500131	CAPACITOR 0.09938UF 30V PC 2% RADIAL	5	\$7.50
225-1192	CAPACITOR 0.15UF 400V AXIAL	1	\$1.69
500121	CAPACITOR 0.1UF CERAMIC RADIAL	9	\$0.29
500226	CAPACITOR 0.288UF 30V PC RADIAL	2	\$7.50
500229	CAPACITOR 0.337UF 30V PC RADIAL	2	\$7.50
OP47UF-35V	CAPACITOR 0.47UF 35V TANTALUM RADIAL POLAR	2	\$0.85
OP47UF-50V	CAPACITOR 0.47UF 50V ELECTROLYTIC POLAR AXIAL	3	\$0.60
OP22UF-35V	CAPACITOR 0.55UF 35V TANTALUM POLAR RADIAL	1	\$0.90
350D224-6V	CAPACITOR 0.55UF 6V ELECTROLYTIC AXIAL POLAR SPRAGUE	2	\$0.30
P8292ZN12	CAPACITOR 0.5UF 200V AXIAL AEROVOX	7	\$1.00
OP33UF-35V	CAPACITOR 0.66UF 35V TANTALUM RADIAL POLAR	4	\$0.92
150D684-35V	CAPACITOR 0.68UF 35V TANTALUM AXIAL POLAR	1	\$0.96
OP68UF-35V	CAPACITOR 0.68UF 35V TANTALUM RADIAL POLAR	2	\$1.00
225P10591YD3	CAPACITOR 1.0UF 100V FILM RADIAL SPRAGUE	5	\$1.20
QXJ2E105KTPT	CAPACITOR 1.0UF 250V FILM RADIAL NICHICON	4	\$2.06
350D105-35V	CAPACITOR 1.0UF 35V ELECTROLYTIC AXIAL POLAR SPRAGUE	6	\$0.40
PVC61	CAPACITOR 1.0UF 600V FILM AXIAL MALLORY	2	\$6.75
PVC11P5	CAPACITOR 1.5UF 100V FILM RADIAL MALLORY	1	\$1.40
277P1DFM1.5	CAPACITOR 1.5UF 100V FILM RADIAL SPRAGUE	3	\$1.25
155K200V	CAPACITOR 1.5UF 200V FILM RADIAL ITW	4	\$1.40
40L3151	CAPACITOR 1.5UF 400V ELECTROLYTIC NON-POLARIZED AXIAL	3	\$4.57
431P15594	CAPACITOR 1.5UF 400V FILM AXIAL SPRAGUE	2	\$2.20
1.5UF-50V	CAPACITOR 1.5UF 50V TANTALUM RADIAL POLAR	2	\$1.98

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
CM35FC103GP3	CAPACITOR 10000PF 300V MICA AXIAL	5	\$7.50
5683	CAPACITOR 10000PF 500V CERAMIC RADIAL CK63AW103M GENERAL PURPOSE	2	\$0.44
TVA1175.8	CAPACITOR 10000UF 16V ELECTROLYTIC AXIAL	2	\$4.34
CGS103U025R3C	CAPACITOR 10000UF 25V ELECTROLYTIC MALLORY RADIAL	1	\$6.77
8666	CAPACITOR 1000PF 200V CERAMIC RADIAL M39014/01-1357 GENERAL PURPOSE	3	\$0.30
BR1000-16	CAPACITOR 1000UF 16V ELECTROLYTIC TVA 1163 AXIAL	3	\$0.96
CE44C102F	CAPACITOR 1000UF 25V ELECTROLYTIC RADIAL CAN	8	\$13.55
1000UF-25V	CAPACITOR 1000UF 25V ELECTROLYTIC RADIAL POLAR	5	\$1.89
BR1000-25	CAPACITOR 1000UF 25V TVA 1211 AXIAL ELECTROLYTIC	2	\$1.69
1000UF/35VDC	CAPACITOR 1000UF 35V AXIAL	5	\$1.18
BR1000-50	CAPACITOR 1000UF 50V TVA 1316 AXIAL ELECTROLYTIC	3	\$1.58
1000UF6.3V	CAPACITOR 1000UF 6.3V 105 DEGREE RADIAL	10	\$0.35
BR1000-6	CAPACITOR 1000UF 6.3V TVA 1104 AXIAL ELECTROLYTIC	2	\$1.91
5445	CAPACITOR 100PF 200V CERAMIC RADIAL M39014/01-1339 GENERAL PURPOSE	5	\$0.23
8373	CAPACITOR 100PF 500V MICA AXIAL CM15FD101GP3 GENERAL PURPOSE	8	\$0.84
89F3216	CAPACITOR 100PF CERAMIC TEMPERATURE COMPENSATING TYPE 1C LEAD SPACE .100" RADIAL	3	\$0.31
350D107-10V	CAPACITOR 100UF 10V ELECTROLYTIC AXIAL POLAR SPRAGUE	4	\$0.59
BR100-150	CAPACITOR 100UF 150V TVA 1420 AXIAL ELECTROLYTIC	2	\$6.05
BR100-16	CAPACITOR 100UF 16V ELECTROLYTIC TVA 1160 AXIAL	4	\$0.79
VTL100S16	CAPACITOR 100UF 16V RADIAL MALLORY ELECTROLYTIC	3	\$0.06
852-1658	CAPACITOR 100UF 200V RADIAL	2	\$1.71
TVA1522	CAPACITOR 100UF 250V ELECTROLYTIC AXIAL	2	\$4.25
P6192	CAPACITOR 100UF 250V RADIAL ELECTROLYTIC 105C DEGREES	3	\$4.18
BR100-25	CAPACITOR 100UF 25V TVA 1207 AXIAL ELECTROLYTIC	3	\$2.61
140-HTRL50V100	CAPACITOR 100UF 50V 105C ELECTROLYTIC RADIAL POLARIZED	0	\$0.77
BR100-50	CAPACITOR 100UF 50V ELECTROLYTIC TVA 1310 AXIAL	2	\$0.85
EP-35411	CAPACITOR 100UF 50V RADIAL	1	\$65.00
VTL100S50	CAPACITOR 100UF 50V RADIAL MALLORY ELECTROLYTIC	0	\$0.77
51F2932	CAPACITOR 100UF 63V AXIAL ELECTROLYTIC	8	\$0.99
46F2868	CAPACITOR 100UF 63V ELECTROLYTIC RADIAL	4	\$0.90
350D107-6V	CAPACITOR 100UF 6V ELECTROLYTIC AXIAL POLAR SPRAGUE	4	\$1.02
290-0668-00	CAPACITOR 10-10UF 500V ELECTROLYTIC TEK 4631 DUAL SECTION MALLORY 235-7851 SPRAGUE 68D2020	1	\$9.00
140-HTRL50V1.0	CAPACITOR 105C 1.0UF 50V ELECTROLYTIC RADIAL POLARIZED	4	\$0.08
5388	CAPACITOR 10PF 1000V CERAMIC RADIAL CK60BX100K GENERAL PURPOSE	5	\$0.39
CM15CD100JN3	CAPACITOR 10PF 500V MICA RADIAL CM15CD100JN3 GENERAL PURPOSE	2	\$0.65
44F5959	CAPACITOR 10UF 100V ELECTROLYTIC AXIAL	3	\$0.44
VTL10S100	CAPACITOR 10UF 100V ELECTROLYTIC RADIAL POLAR MBI XC1430	2	\$1.08
50F6797	CAPACITOR 10UF 10V TANTALUM AXIAL MALLORY 106K010P02	4	\$0.83
BR10-150	CAPACITOR 10UF 150V TVA 1406 AXIAL ELECTROLYTIC	4	\$0.90
123300-106	CAPACITOR 10UF 15V AND 4 EA 16V TANTALUM RADIAL	5	\$0.78
46-325	CAPACITOR 10UF 160V RADIAL 105 DEGREES	2	\$1.01
250UK10	CAPACITOR 10UF 250V RADIAL ELECTROLYTIC	2	\$1.39
551-10C25	CAPACITOR 10UF 25V ELECTROLYTIC POLARIZED CHIP	2	\$1.00
BR10-25	CAPACITOR 10UF 25V ELECTROLYTIC TVA 1204 AXIAL	6	\$0.78
TDC106M025FL	CAPACITOR 10UF 25V TANTALUM EPOXY DIP	3	\$0.88
BR10-450	CAPACITOR 10UF 450V TVA 1705 AXIAL ELECTROLYTIC	2	\$4.50
C50UKNP10	CAPACITOR 10UF 50V BIPOLAR RADIAL	10	\$1.01
BR10-50	CAPACITOR 10UF 50V ELECTROLYTIC AXIAL	11	\$0.31
19F727	CAPACITOR 10UF 50V ELECTROLYTIC POLARIZED RADIAL	3	\$0.46
10UF50VNPO	CAPACITOR 10UF 50V ELECTROLYTIC RADIAL NPO NICHICON	4	\$0.46
VTL10S50	CAPACITOR 10UF 50V RADIAL ELECTROLYTIC	5	\$0.46
VTL10S63	CAPACITOR 10UF 63V RADIAL ELECTROLYTIC	5	\$0.59
290-0930-00	CAPACITOR 11000UF 12V ELECTROLYTIC	2	\$11.00
0180-0431	CAPACITOR 1150UF 200V HP1000F ELECTROLYTIC RADIAL	1	\$14.00
CGS123U025R3C	CAPACITOR 12000UF 25V ELECTROLYTIC RADIAL	3	\$9.65
106-708-219	CAPACITOR 1200UF 200V RADIAL	2	\$11.56
290-0334-00	CAPACITOR 1250UF 50V AXIAL ELECTROLYTIC	2	\$4.80
BR12-250	CAPACITOR 12UF 250V TVA 1505 AXIAL ELECTROLYTIC	2	\$2.83
29-24357-00	CAPACITOR 13000UF 50V TU80 MAG.TAPE UNIT ELECTROLYTIC	1	\$50.00
94383702	CAPACITOR 14000UF 15V CDC AXIAL ELECTROLYTIC	1	\$4.75
290-0968-00	CAPACITOR 14000UF 30V ELECTROLYTIC RADIAL	3	\$7.75
1010187	CAPACITOR 14000UF 40V ELECTROLYTIC RADIAL	1	\$8.00
290-0840-00	CAPACITOR 1400UF 200V ELECTROLYTIC RADIAL	2	\$12.00
CGR143U016R3C	CAPACITOR 14KUF 16V ELECTROLYTIC RADIAL MALLORY SWITCHING 20KHZ	3	\$18.13
290-0566-00(EX)	CAPACITOR 15000UF 30V ELECTROLYTIC RADIAL	1	\$10.00
5328	CAPACITOR 150PF 200V CERAMIC RADIAL M39014/01-1342 GENERAL PURPOSE	3	\$0.28
BR150-150	CAPACITOR 150UF 150V TVA 1422 AXIAL ELECTROLYTIC	2	\$8.56
TVA1447	CAPACITOR 150UF 200V ELECTROLYTIC RADIAL W/LEADS	2	\$7.50
39D157G050EL4	CAPACITOR 150UF 50V ELECTROLYTIC AXIAL POLAR SPRAGUE	1	\$1.43
BR150-50	CAPACITOR 150UF 50V TVA 1311 AXIAL ELECTROLYTIC	3	\$1.80
CK60BX150K	CAPACITOR 15PF 1000V CERAMIC RADIAL CK60BX150K GENERAL PURPOSE	9	\$1.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
CM15CD150JP3	CAPACITOR 15PF 500V MICA RADIAL CM15CD150JP3 GENERAL PURPOSE	3	\$1.49
140-NPR50V15	CAPACITOR 15UF 50V RADIAL NON-POLARIZED	2	\$0.46
BR15-50	CAPACITOR 15UF 50V TVA 1305 AXIAL ELECTROLYTIC	4	\$1.03
CG163U015R3L3PL	CAPACITOR 16000U 15V ELECTROLYTIC RADIAL	1	\$5.00
BR16-450	CAPACITOR 16UF 450V AXIAL NO LONGER AVAILABLE	1	\$0.20
926-0307	CAPACITOR 16UF 475V TVA 1803.1 RADIAL	2	\$5.25
290-0471-00	CAPACITOR 17000UF 25V ELECTROLYTIC C275	1	\$1.00
TVA1160.4	CAPACITOR 175UF 16V AXIAL ELECTROLYTIC	4	\$1.24
290-0508-00	CAPACITOR 18000MF 15VDC ELECTROLYTIC RADIAL	1	\$15.00
290-0961-00	CAPACITOR 18000UF 15V ELECTROLYTIC RADIAL	3	\$7.00
129468-189	CAPACITOR 18000UF LSI-ADM-3A	3	\$4.50
100275-001	CAPACITOR 193UF 110V ELECTROLYTIC RADIAL	3	\$10.00
551-1.0C35	CAPACITOR 1UF 35V ELECTROLYTIC POLARIZED CHIP	4	\$1.00
BR1-450	CAPACITOR 1UF 450V TVA 1700 AXIAL ELECTROLYTIC	2	\$2.78
T50010J	CAPACITOR 1UF 5000V RADIAL	1	\$15.00
1MFD/50V	CAPACITOR 1UF 50V ELECTROLYTIC POLARIZED AXIAL	1	\$0.46
VTH1M50	CAPACITOR 1UF 50V ELECTROLYTIC RADIAL POLAR	6	\$0.46
8417	CAPACITOR 1UF 50V FIXED CERAMIC RADIAL MONOLYTHIC	3	\$0.89
PVC12	CAPACITOR 2.0UF 100V FILM RADIAL MALLORY	2	\$1.30
PVC22	CAPACITOR 2.0UF 200V FILM RADIAL MALLORY	3	\$1.50
TVA-1646	CAPACITOR 2.0UF 400V ELECTROLYTIC AXIAL SPRAGUE	2	\$2.15
200K400V	CAPACITOR 2.0UF 400V FILM RADIAL ITW	4	\$2.30
2002	CAPACITOR 2.2UF 20V ELECTROLYTIC AXIAL POLAR SPRAGUE	0	\$0.08
551-2.2C35	CAPACITOR 2.2UF 35V ELECTROLYTIC POLARIZED CHIP	4	\$1.00
114491-225	CAPACITOR 2.2UF 50V 20% RADIAL	2	\$1.30
350D225-50V	CAPACITOR 2.2UF 50V ELECTROLYTIC AXIAL POLAR SPRAGUE\	2	\$1.00
2P2UF-50V	CAPACITOR 2.2UF 50V ELECTROLYTIC RADIAL POLAR	5	\$0.46
17F2041	CAPACITOR 2.2UF TANTALUM 25V LSI-ADM-3A RADIAL	2	\$0.73
BR2000-16	CAPACITOR 2000UF 16V TVA 1170 AXIAL ELECTROLYTIC	3	\$5.35
CGS202T200V4C	CAPACITOR 2000UF 200V ELECTROLYTIC MALLORY RADIAL CAN	2	\$22.50
BR2000-25	CAPACITOR 2000UF 25V TVA 1213 AXIAL ELECTROLYTIC	1	\$6.05
290-0577-00	CAPACITOR 2000UF 50V ELECTROLYTIC RADIAL	1	\$9.00
BR2000-50	CAPACITOR 2000UF 50V ELECTROLYTIC TVA 1318.2 AXIAL	0	\$10.58
BR20-150	CAPACITOR 20UF 150V TVA 1410 AXIAL	2	\$2.00
400014	CAPACITOR 21000UF 15V NEFF ELECTROLYTIC	2	\$11.10
290-0485-00	CAPACITOR 21000UF 15V TYPE CGS ELECTROLYTIC	2	\$8.50
29-22930-00	CAPACITOR 21000UF 50V ELECTROLYTIC	1	\$27.00
300026	CAPACITOR 2100MF 75V 86F6189M ELECTROLYTIC RADIAL	2	\$13.40
500143	CAPACITOR 22 PF MICA RADIAL	3	\$5.00
2200UF-16V	CAPACITOR 2200UF 16V ELECTROLYTIC AXIAL POLAR	5	\$1.34
C25UK2200	CAPACITOR 2200UF 25V POLARIZED ELECTROLYTIC AXIAL	2	\$1.94
92N5459	CAPACITOR 2200UF 35V AXIAL	1	\$2.15
1V222MHA	CAPACITOR 2200UF 35V ELECTROLYTIC RADIAL	6	\$3.52
BR2200-50	CAPACITOR 2200UF 50V ELECTROLYTIC POLARIZED RADIAL	2	\$4.40
220UF 100V RADIAL	CAPACITOR 220UF 100V RADIAL	2	\$1.37
350D227-10V	CAPACITOR 220UF 10V ELECTROLYTIC AXIAL POLAR SPRAGUE	0	\$0.49
C10UKB220	CAPACITOR 220UF 10V TANTALUM MEGALANCHE RADIAL	3	\$4.31
80D221P250JD5	CAPACITOR 220UF 250V ELECTROLYTIC SNAP POLAR	2	\$5.72
VTL220S25	CAPACITOR 220UF 25V ELECTROLYTIC MALLORY RADIAL	5	\$0.91
VTL220S35	CAPACITOR 220UF 35V MALLORY RADIAL E ELECTROLYTIC	3	\$0.90
P6850-ND	CAPACITOR 220UF 400V RADIAL ELECTROLYTIC	2	\$11.97
140-HTRL50V220	CAPACITOR 220UF 50V 105C ELECTROLYTIC RADIAL POLARIZED	3	\$0.73
220UF-50V	CAPACITOR 220UF 50V ELECTROLYTIC AXIAL POLAR SUN	4	\$0.99
350D227-6V	CAPACITOR 220UF 6.3V ELECTROLYTIC AXIAL POLAR SPRAGUE	2	\$0.94
290-1025-00	CAPACITOR 22MF 40V TEK 4692 ELECTROLYTIC	1	\$15.00
9873	CAPACITOR 22PF 1000V CERAMIC RADIAL CK60BX220K GENERAL PURPOSE	5	\$0.26
CE0616	CAPACITOR 22UF 100V AXIAL LEADS	2	\$4.00
651-600001-013	CAPACITOR 22UF 10V TANTALUM AXIAL POLAR MODCOMP	2	\$0.88
CE0805	CAPACITOR 22UF 350V AXIAL LEAD	2	\$10.00
4383	CAPACITOR 22UF 35V TANTALUM AXIAL POLAR SPRAGUE	3	\$2.00
BR20-450	CAPACITOR 22UF 450V AXIAL ELECTROLYTIC	0	\$2.94
140-HTRL50V22	CAPACITOR 22UF 50V 105C ELECTROLYTIC RADIAL POLARIZED	11	\$0.46
M39003	CAPACITOR 22UF 50V TANTALUM AXIAL POLAR SPRAGUE M39003/01-3100J	2	\$3.00
44F1647	CAPACITOR 22UF 63V ELECTROLYTIC RADIAL	9	\$0.23
350D226-6V	CAPACITOR 22UF 6V ELECTROLYTIC AXIAL POLAR SPRAGUE	3	\$0.50
CM15FD241GP3	CAPACITOR 240PF 500V MICA AXIAL CM15FD241GP3 GENERAL PURPOSE	4	\$1.50
30241053	CAPACITOR 240PF POLY B31063A	1	\$1.00
AA0263A	CAPACITOR 240UF TO 400UF 150V RADIAL	5	\$1.45
290-0682-00	CAPACITOR 25000UF 30V TYPE CGS ELECTROLYTIC RADIAL	2	\$12.50
290-0511-00	CAPACITOR 250MF 250V TEK 4631 ELECTROLYTIC RADIAL	1	\$8.50
BR250-16	CAPACITOR 250UF 16V TVA 1161 AXIAL ELECTROLYTIC	5	\$2.78



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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
BR250-25	CAPACITOR 250UF 25V TVA 1208 AXIAL ELECTROLYTIC	7	\$1.00
BR25-25	CAPACITOR 25UF 25V TVA 1205 AXIAL ELECTROLYTIC	6	\$2.56
BR25-50	CAPACITOR 25UF 50V AXIAL ELECTROLYTIC	3	\$1.18
SMTN-P256	CAPACITOR 25UF 6V ELECTROLYTIC AXIAL NPO ILLINOIS	10	\$0.65
CGS272U040R2C	CAPACITOR 2700UF 40V ELECTROLYTIC RADIAL	2	\$5.42
CM15FD271GP3	CAPACITOR 270PF 500V MICA AXIAL CM15FD241GP3 GENERAL PURPOSE	4	\$1.00
10-12607-04	CAPACITOR 270UF 60V ELECTROLYTIC RADIAL	3	\$2.71
CM15ED270G03	CAPACITOR 27PF 500V MICA RADIAL CM15ED270G03 GENERAL PURPOSE	2	\$0.48
97F5583	CAPACITOR 2UF 440V ELECTROLYTIC RADIAL	1	\$5.00
18F971	CAPACITOR 2UF 50V ELECTROLYTIC AXIAL	4	\$1.95
290-0806-00	CAPACITOR 3.3UF 350V RADIAL	1	\$3.00
3P3UF-35V	CAPACITOR 3.3UF 35V TANTALUM RADIAL POLAR	3	\$0.42
140BPHR50V3.3	CAPACITOR 3.3UF 50V BI-POLAR RADIAL	2	\$1.01
46-926	CAPACITOR 3.3UF 50V BI-POLAR RADIAL HIGH FREQUENCY	2	\$0.99
3P3UF-50V	CAPACITOR 3.3UF 50V ELECTROLYTIC AXIAL POLAR NIC	2	\$0.92
661-76153-C1	CAPACITOR 3.9UF 100V HF RADIAL	3	\$2.50
BR3000-16	CAPACITOR 3000UF 16V TVA 1175 AXIAL ELECTROLYTIC	2	\$5.60
300024	CAPACITOR 300UF 200V ELECTROLYTIC RADIAL	2	\$12.42
290-0799-00	CAPACITOR 300UF 300V ELECTROLYTIC RADIAL	4	\$9.50
BR30-150	CAPACITOR 30UF 150V TVA 1412 AXIAL ELECTROLYTIC	1	\$1.55
BR30-250	CAPACITOR 30UF 250V TVA 1510 AXIAL ELECTROLYTIC	2	\$2.27
235-7730B	CAPACITOR 3100UF 15V ELECTROLYTIC	1	\$8.00
101692400	CAPACITOR 324UF 165V ELECTROLYTIC	1	\$15.00
35EK3300	CAPACITOR 3300UF 35V ELECTROLYTIC AXIAL	4	\$4.18
5999	CAPACITOR 330PF 200V CERAMIC RADIAL M39014/01-1308 GENERAL PURPOSE	2	\$0.24
8681	CAPACITOR 330PF 500V MICA AXIAL CM15FD331G03 GENERAL PURPOSE	5	\$1.42
500176	CAPACITOR 330PF MICA RADIAL	3	\$5.00
4302C172	CAPACITOR 330UF 100V ELECTROLYTIC AXIAL	2	\$1.15
4780	CAPACITOR 330PF 1000V CERAMIC RADIAL CK60BX330K GENERAL PURPOSE	4	\$0.69
852-1796	CAPACITOR 33UF 100V 105DEG ELECTROLYTIC RADIAL	4	\$0.37
651-600001-014	CAPACITOR 33UF 10V MODCOM AXIAL	4	\$3.00
60F3658	CAPACITOR 33UF 10V TANTALUM AXIAL MALLORY P/N 336K010P06	2	\$1.33
95F2437	CAPACITOR 33UF 50V ELECTROLYTIC RADIAL	6	\$0.46
CGS343U016R4C	CAPACITOR 34000UF 16V TYPE CGS ELECTROLYTIC RADIAL	2	\$18.50
CG341T200B1	CAPACITOR 340UF 200V ELECTROLYTIC RADIAL	1	\$6.00
CM15FD361GP3	CAPACITOR 360PF 500V MICA AXIAL CM15FD361GP3 GENERAL PURPOSE	8	\$6.00
CM15FD391JP3	CAPACITOR 390PF 500V MICA AXIAL CM15FD391JP3	6	\$6.60
281-0603-00	CAPACITOR 39PF 500V TEK 4014-1 RADIAL	2	\$0.50
500145	CAPACITOR 39PF MICA RADIAL	2	\$5.00
431P305X94	CAPACITOR 3UF 400V AXIAL	1	\$5.65
10-14022-02	CAPACITOR 3UF 660V DEC RADIAL	2	\$11.76
101402202	CAPACITOR 3UF 660V ELECTROLYTIC	1	\$11.00
44F5958	CAPACITOR 4.7UF 100V ELECTROLYTIC AXIAL	5	\$0.37
160UK4R7	CAPACITOR 4.7UF 160V RADIAL	6	\$0.77
BR4-150	CAPACITOR 4.7UF 160V TVA 1402 AXIAL ELECTROLYTIC	2	\$1.33
BR4-250	CAPACITOR 4.7UF 250V TVA 1501 AXIAL ELECTROLYTIC	3	\$1.88
87F5060	CAPACITOR 4.7UF 25V TANTALUM RADIAL KEMET PH = T330A475M025AS	4	\$2.26
BR4-350	CAPACITOR 4.7UF 350V TVA 1601 AXIAL ELECTROLYTIC	2	\$1.99
551-4.7C25	CAPACITOR 4.7UF 35V ELECTROLYTIC POLARIZES CHIP	4	\$1.00
44F8905	CAPACITOR 4.7UF 35V ELECTROLYTIC RADIAL	2	\$0.28
4P7UF-35V	CAPACITOR 4.7UF 35V TANTALUM RADIAL POLAR	2	\$0.58
4.7MFD/450V	CAPACITOR 4.7UF 450V ELECTROLYTIC RADIAL POLAR 105 DEGREES	2	\$1.39
140-HTRL50V4.7	CAPACITOR 4.7UF 50V 105C ELECTROLYTIC RADIAL POLARIZED	10	\$0.17
4P7UF-50V	CAPACITOR 4.7UF 50V ELECTROLYTIC AXIAL POLAR NIC	2	\$0.49
350D475-50V	CAPACITOR 4.7UF 50V ELECTROLYTIC AXIAL POLAR SPRAGUE	5	\$0.50
BR4000-16	CAPACITOR 4000UF 16V TVA 1175.4 AXIAL ELECTROLYTIC	2	\$4.80
290-0681-00	CAPACITOR 400MF 400V ELECTROLYTIC RADIAL	2	\$12.50
BR40-450	CAPACITOR 40UF 450V TVA 1712 AXIAL ELECTROLYTIC	2	\$5.02
290-0568-00	CAPACITOR 4500UF 25V ELECTROLYTIC RADIAL	6	\$6.00
290-0520-00	CAPACITOR 4500UF 40V ELECTROLYTIC	1	\$9.50
CGS462T200X4C	CAPACITOR 4600UF 200VDC	1	\$37.55
CK06BX472K	CAPACITOR 4700 PF CERAMIC RADIAL 200 WVDC 10% MALLORY	104	\$0.18
3517	CAPACITOR 47000PF 300V PLASTIC AXIAL WEST-CAP	2	\$1.10
336251472-2-079	CAPACITOR 4700PF 250V CERAMIC RADIAL	4	\$0.10
379370	CAPACITOR 4700UF +10/+100% 15V	2	\$5.04
300027	CAPACITOR 4700UF 40V ISC ELECTROLYTIC RADIAL	1	\$13.55
470UF25V	CAPACITOR 470UF 25V 105 DEGREE ELECTROLYTIC RADIAL	4	\$1.39
333201471TG18	CAPACITOR 470UF 250V ELECTROLYTIC RADIAL	3	\$10.95
95F2491	CAPACITOR 470UF 50V ALUMINUM ELECTROLYTIC RADIAL	0	\$1.69
1J471MHA	CAPACITOR 470UF 63V ELECTROLYTIC RADIAL 89F3312	6	\$2.64
47UF160V	CAPACITOR 47UF 160V ELECTROLYTIC RADIAL 105 DEGREES	3	\$1.69

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
NEV47M160	CAPACITOR 47UF 160V RADIAL	5	\$1.50
651-600006-006	CAPACITOR 47UF 20V MODCOM AXIAL	2	\$2.25
290-0529-00	CAPACITOR 47UF 20V TEK 4014-1 RADIAL	3	\$3.00
46F1036	CAPACITOR 47UF 25V ELECTROLYTIC RADIAL	4	\$0.46
T353K476K025AS	CAPACITOR 47UF 25V TANTALUM RADIAL	4	\$1.95
547	CAPACITOR 47UF 35V TANTALUM AXIAL POLAR SPRAGUE	1	\$0.19
140-HTRL50V47	CAPACITOR 47UF 50V 105C ELECTROLYTIC RADIAL POLARIZED	10	\$0.59
CTL476M050P1B	CAPACITOR 47UF 50V ELECTROLYTIC AXIAL MALLORY	3	\$0.68
C50UK47	CAPACITOR 47UF 50V ELECTROLYTIC POLARIZED RADIAL	2	\$0.57
350D476-6V	CAPACITOR 47UF 6.3V ELECTROLYTIC AXIAL POLAR SPRAGUE	6	\$0.92
VTL47S63	CAPACITOR 47UF 63V RADIAL ELECTROLYTIC	4	\$0.76
BR4-450	CAPACITOR 4UF 450V TVA 1702 AXIAL ELECTROLYTIC	1	\$4.15
BR5000-16	CAPACITOR 5000UF 16V ELECTROLYTIC TVA1175.5 AXIAL	2	\$3.56
BR500-16	CAPACITOR 500UF 16V TVA 1162 AXIAL ELECTROLYTIC	2	\$2.95
BR500-25	CAPACITOR 500UF 25V ELECTROLYTIC TVA 1209 AXIAL	5	\$3.29
18F975	CAPACITOR 500UF 50VDC 50V AXIAL	8	\$1.87
500UF50V	CAPACITOR 500UF 50VDC ELECTROLYTIC RADIAL POLAR SPRAGUE 105 DEG	1	\$4.00
BR500-6	CAPACITOR 500UF 6V TVA 1103 AXIAL ELECTROLYTIC	11	\$1.10
BR50-150	CAPACITOR 50UF 150V ELECTROLYTIC TVA 1414 AXIAL	2	\$1.41
BR50-16	CAPACITOR 50UF 16V TVA 1150 AXIAL ELECTROLYTIC	3	\$0.94
TVA 1512	CAPACITOR 50UF 250VDC AXIAL TVA1512	4	\$2.69
BR50-50	CAPACITOR 50UF 50V AXIAL ELECTROLYTIC EST.COST \$2.38	3	\$2.38
500146	CAPACITOR 56PFD 150V RADIAL	3	\$5.00
CGS591T200R3C	CAPACITOR 590UF 200V ELECTROLYTIC RADIAL	1	\$2.00
748-0050	CAPACITOR 5PF 5 PICO FARAD	3	\$0.39
29-22927-00	CAPACITOR 5UF 370V ELECTROLYTIC	1	\$12.00
BR5-50	CAPACITOR 5UF 50V AXIAL ELECTROLYTIC	4	\$1.07
290-0025-00	CAPACITOR 6.25UF 300V AXIAL	1	\$1.50
852-1334	CAPACITOR 6.8PF PICO FARAD 1KV RADIAL	2	\$0.26
551-6.8C35	CAPACITOR 6.8UF 35V ELECTROLYTIC POLARIZED CHIP	4	\$1.00
651-600002-020	CAPACITOR 6.8UF 35V MODCOMP RADIAL ELECTROLYTIC	2	\$0.31
4381	CAPACITOR 6.8UF 35V TANTALUM AXIAL POLAR SPRAGUE	3	\$1.56
6P8UF-35V	CAPACITOR 6.8UF 35V TANTALUM RADIAL POLAR	3	\$1.17
290-0510-00	CAPACITOR 6000UF 15V ELECTROLYTIC	3	\$5.50
BR60-150	CAPACITOR 60UF 150V TVA 1415 AXIAL ELECTROLYTIC	4	\$1.87
CM20FD621G93	CAPACITOR 620PF 500V MICA AXIAL	4	\$6.25
103316-001	CAPACITOR 648UF 125V ELECTROLYTIC MOTOR START	1	\$20.00
9448	CAPACITOR 680PF 200V CERAMIC RADIAL M39014/01-1354 GENERAL PURPOSE	4	\$0.28
CM20FD681GP3	CAPACITOR 680PF 500V MICA AXIAL	3	\$1.18
680UF50V	CAPACITOR 680UF 50V RADIAL ELECTROLYTIC	1	\$1.87
63UK680	CAPACITOR 680UF 63V RADIAL ELECTROLYTIC	2	\$3.77
CM15FD680JP3	CAPACITOR 68PF 500V MICA AXIAL CM15F D680JP3	2	\$0.59
300022	CAPACITOR 68UF 16V TANTALUM RADIAL	1	\$1.95
29-22938-00	CAPACITOR 6UF 660V ELECTROLYTIC	1	\$23.00
CM35F752GP3	CAPACITOR 7500PF 500V MICA AXIAL	1	\$7.05
CM20FD751GP3	CAPACITOR 750PF 500V MICA AXIAL	3	\$5.45
TVA1206.1	CAPACITOR 75UF 25V ELECTROLYTIC AXIAL	4	\$1.05
47F2059	CAPACITOR 76KUF 40VDC ELECTROLYTIC RADIAL MOD II POWER SUPPLY	2	\$28.88
TVA1716	CAPACITOR 80UF 450V AXIAL ELECTROLYTIC	2	\$3.83
CM35FD822GP3	CAPACITOR 8200PF 500V MICA AXIAL	2	\$7.10
LP822S035H3P3	CAPACITOR 8200UF 35V ELECTROLYTIC RADIAL	3	\$2.00
651-100003-050	CAPACITOR 820PF 1KV RADIAL	2	\$0.50
89F2739	CAPACITOR 8300UF 35V ELECTROLYTIC 53D832G035JP6	3	\$5.96
651-500007-001	CAPACITOR 8300UF 40V ELECTROLYTIC RADIAL	3	\$5.00
13-85PSS85-50	CAPACITOR 85UF 50V ELECTROLYTIC RADIAL POLAR CALLINS	5	\$0.90
290-0545-00	CAPACITOR 86000UF 15V ELECTROLYTIC	1	\$20.00
CGS9020040ER4C	CAPACITOR 9000UF 40V ELECTROLYTIC RADIAL	1	\$5.00
CM35EC912JP3	CAPACITOR 9100PF 300V MICA AXIAL	11	\$7.15
CGS932U040V3C	CAPACITOR 9300UF 40V ELECTROLYTIC NEFF 620 P/S RADIAL	5	\$5.00
CGS932V040V3	CAPACITOR 9300UF 40V ELECTROLYTIC RADIAL	2	\$5.00
3186BC942U040AMA	CAPACITOR 9400UF 40V ELECTROLYTIC RADIAL	1	\$5.00
290-0506-00	CAPACITOR 9600UF 30V ELECTROLYTIC	1	\$9.00
290-0506-00	CAPACITOR 9600UF 30V TEK 4006 ELECTROLYTIC	5	\$9.50
102591-001	CAPACITOR ASSY 2 X .01UF 1.6KV DISK	1	\$9.00
283-0161-00	CAPACITOR CERAMIC .0068MF 6KV HV TEK 4014-1 4631 RADIAL	3	\$5.00
47F2069	CAPACITOR ELECTROLYTIC 41 000UF 50V RADIAL SIZE:DC TYPE 36DX413G050DC2A	2	\$26.85
0180-0129	CAPACITOR ELECTROLYTIC 975UF 40V C9 RADIAL	2	\$52.50
290-0818-01	CAPACITOR FIXED ELECTROLYTIC 390UF +100-10% 40V RADIAL	4	\$2.60
1-012-1005	CAPACITOR MYLAR .47UF 100V BALL ELEX RADIAL	6	\$2.35
500139	CAPACITOR NEFF C110	2	\$8.70
500136	CAPACITOR NEFF C111	1	\$8.70

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
50EKNP6R8	CAPACITOR NP 6.8UF 50V AXIAL	2	\$1.94
500224	CAPACITOR PC 30V .0120UF RADIAL	2	\$5.40
500227	CAPACITOR PC 30V .0288UF RADIAL	1	\$7.50
500230	CAPACITOR PC 30V .0337UF RADIAL	1	\$7.50
500221	CAPACITOR PC 30V .0814UF RADIAL	2	\$7.50
1500-72-2621	CAPACITOR TANTALUM 22UF@20WVDC 22UF 20V RADIAL 1 IN STOCK @ 25V	2	\$2.94
910-0058	CAPACITOR TRIPLER ASSY HIGH VOLTAGE MC2RGB SONY 1-230-666-21 APM APPLE CAPACITOR	3	\$45.00
281-0027-00	CAPACITOR VARIABLE .7-3PF RADIAL	1	\$16.00
281-0158-00	CAPACITOR VARIABLE CERAMIC DI 7-45PF 50V	2	\$6.00
07470-40008	CAPPER LEFT	1	\$1.00
07470-40007	CAPPER RIGHT	1	\$1.00
12-14333-72	CAPS KEY SET	63	\$2.00
521D053010	CAPSTAN DRIVE BELT	3	\$1.25
1500-0538	CAPSTAN HPC 85F MUST BE ISSUED AND USED WITH TACHOMETER DISC P/N 1000-0530	2	\$32.00
401237016	CAPSTAN MOTOR ASSEMBLY	1	\$2,537.00
1670T3	CARBIDE TIP	1	\$8.47
619-100005-001	CARD EJECTOR MODCOMP	10	\$2.00
655-4278-00	CARRIAGE 4692 TEK	1	\$98.00
02225-60914	CARRIAGE ASSEMBLY WITH FLEX. PCB.	1	\$11.00
54153403	CARRIAGE ASSY	1	\$50.00
72860201	CARRIAGE ASSY PA3A1A DISK DR	1	\$524.00
805-5066	CARRIER HDA INT.3.5 SCSI HIGH APM MAC2	6	\$7.20
815-6030	CARRIER FLOPPY DRIVE APM MAC2CX APPLE	1	\$8.20
922-0621	CARRIER HDA APM 8100	1	\$1.80
548-100038-001	CARRIER MODCOMP	1	\$29.00
548-100023-001	CARRIER MODCOMP	1	\$35.00
548-100016-001	CARRIER MODCOMP	1	\$51.00
548-100024-001	CARRIER MODCOMP	1	\$55.00
808-820-722-001A	CARRIER TONER ADDITIVE LASER PRINTER LC890 MAGNETIC POWDER	3	\$6.42
SMD-4	CART	0	\$27.00
SMD-2	CART	1	\$27.00
SMD-3	CART	1	\$27.00
SMD-1	CART	0	\$59.00
C3903A	CARTRIDGE TONER FOR HP LASERJET 6M	1	\$72.00
6201	CARTRIDGE 35W HEATER SOLDERING IRON	4	\$21.00
6200	CARTRIDGE 45W HEATER SOLDERING IRON	1	\$21.00
HP 92261A	CARTRIDGE INK PRINTHEAD HPC THINKJET QUIETJET	1	\$10.50
MOA-L55/2	CARTRIDGE LENS CLEANING DRY SON OPTICAL MAGNET-OPTICAL 1.3GB 650MB 5.25IN OPTICAL DISK	1	\$54.00
11279B	CARTRIDGE ROM 9830 ADV PROG	1	\$30.00
11271B	CARTRIDGE ROM 9830 CONTROL PLOTTER	1	\$30.00
11272B	CARTRIDGE ROM 9830 I/O EXT	1	\$30.00
11274B	CARTRIDGE RPM 9830 STRING VAR	1	\$30.00
2698	CARTRIDGE TAPE 8MM DATA GRADE EXB 8200 8500	2	\$6.00
09845-67962A	CARTRIDGE TAPE DRIVE TAPE TRANSPORT 9845	2	\$30.00
TK70-C	CARTRIDGE TAPE TK70	3	\$39.00
C4096A	CARTRIDGE TONER HP LASERJET 2100 2200	1	\$98.99
92295A	CARTRIDGE TONER LASER II LASER III RECYCLEABLE LASERJET	3	\$89.00
92298A	CARTRIDGE TONER WITH DRUM LASER4 LASER 4 APM HPC LWPRO LJ4 RECYCLEABLE	2	\$85.00
860-036	CASE HALF	2	\$12.00
Y440000001	CASE PRINTER	1	\$65.00
48250	CASE SCSI EXTERNAL CASE 4 BAY CENTRONICS CONNECTORS SHOEBOX DEQ A3300	1	\$126.70
SQ5110CASE	CASE SYQUEST EXTERNAL DRIVE WITH POWER SUPPLY	1	\$30.00
949-0222	CASSETTE PICKUP ASSEMBLY PLATINUM APM LASER LASER+ HPC 2686	2	\$75.60
640-0504-00	CASSETTE ASSEMBLY	1	\$450.00
640-0504-02(EX)	CASSETTE ASSEMBLY TEK 4631	1	\$65.00
12-23985-02	CASTER SHOCK INSULATING FIXED	1	\$40.00
12-23985-01	CASTER SHOCK INSULATING SWIVEL	1	\$40.00
401-0486-00	CASTER SWIVEL 60MM BLACK CELON	4	\$3.00
670-3661-07	CBA TIMING TEK 4631	1	\$305.00
257345-001	CCA INTERFACE B300 PRINTER	1	\$557.97
263040-001	CCA POWER BD B300 PRINTER	1	\$638.82
251725-001	CCA RECTIFIER B300	1	\$232.64
263080-001	CCA TIMING & STATUS B300	2	\$453.45
5985	CDROM DRIVE CD ROM INTERNAL 40 PIN 40P 40PIN INTERFACE IDE 40X OR 50X	3	\$33.04
710001	CENTERING RING ASSEMBLY FOR VARIAN WELCH ALCATEL PUMPS SMALL CENTERING RING	1	\$7.00
A2187-10	CERAMIC INSERT	1	\$600.00
67F3556	CERMET TRIMMER 100 OHM	2	\$9.34
67F3559	CERMET TRIMMER 1K OHM	2	\$9.34
67F3563	CERMET TRIMMER 20K OHM	2	\$6.95
67F3560	CERMET TRIMMER 2K OHM	2	\$10.34
401-0348-00-CP	CHAIN ROLLER TEK	2	\$2.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
401-0348-00	CHAIN ROLLER TEK	1	\$8.75
401-0347-00	CHAIN ROLLER TEK HARD CY	1	\$13.00
401-0259-00	CHAIN TEK ROLLER	1	\$50.00
9270-1006	CHART PAPER	2	\$11.58
QP-1143	CHART PAPER	2	\$24.00
CHART 519	CHART PAPER 0-600 DEGREES F TYPE J T.C.	2	\$18.45
7510-763-2634	CHARTPAK CHART PAK MARKING KIT BLACK	1	\$21.65
7510-762-7165	CHARTPAK CHART PAK MARKING KIT RUB ON NUMBERS WHITE	2	\$22.95
7101-0643	CHASSIS	1	\$36.00
HPC 2250	CHASSIS	1	\$50.00
BA30A-AA	CHASSIS DEQ 4100	1	\$600.00
MIDBOX	CHASSIS TWO FULL HEIGHT DRIVE BAYS WITH SCSI CENTRONICS CONNECTOR SHOEBOX	1	\$550.00
41-2951	CHECK VALVE SPRING	1	\$3.83
670-3519-04	CIRC BD TEK 4014-1 DISP CONT	2	\$175.00
56F799	CIRCUIT BREAKER POTTER & BRUMFIELD TYPE W92X112-25 25A 277V	1	\$53.14
810580-001	CIRCUIT BREAKER B300 7.5A 250V	1	\$26.14
12-16828-00	CIRCUIT BREAKER CKT BREAKER 10A DEC 277V	1	\$49.00
661-200004-001	CIRCUIT BREAKER CKT BREAKER 10A MODCOMP 240V	1	\$51.00
JA1-A3-A	CKT BREAKER 20A 125V MOD 7870	2	\$5.00
343-0532-00	CLAMP	1	\$2.00
701001	CLAMP HINGED VACUUM PUMP ALCATEL WELCH VARIAN	2	\$7.00
214-2218-00	CLAMP ACTUATOR	2	\$1.00
07570-40065	CLAMP BEARING	3	\$5.00
4730-278-9211	CLAMP HOSE 1" TO 1-7/16"	0	\$0.75
4730-555-1352	CLAMP HOSE 13/16" TO 1-3/16"	4	\$0.22
4730-278-9200	CLAMP HOSE 7/16" -11/16"	3	\$0.84
4730-720-0167	CLAMP HOSE 9/16" TO 1-1/16"	0	\$0.88
5340-969-6502	CLAMP LOOP 5/16"	5	\$0.25
07470-40049	CLAMP MOTOR	1	\$2.00
07470-40048	CLAMP OP BEARING	1	\$8.00
74-16402-00	CLAMP PULLEY	8	\$1.00
81803	CLEANER WHITE BOARD	2	\$2.28
PRD-40510-01-02	CLEANING ARM PAD VIDEO HEAD CLEANER PAD	7	\$1.40
S0700147	CLEANING KIT BERNOULLI CLEANING CASSETTE B290 IOG 5 1/4"	1	\$30.00
29-25074(EX)	CLEANING UNIT	1	\$168.00
29-25074-00	CLEANING UNIT DEQ LN03 LN03+ RIA LP4080 LP4081	2	\$130.00
5999-195-9689	CLIP ALLIGATOR LARGE LENGTH 2-3/16" JAW SPREAD 5/16"	8	\$0.35
5940-838-1402	CLIP ALLIGATOR MEDIUM LENGTH 1-1/2" JAW SPREAD 1/4"	3	\$0.36
5999-683-3508	CLIP ALLIGATOR SMALL LENGTH 1-1/8" JAW SPREAD 3/16"	6	\$0.16
801267-001	CLIP CABLE	3	\$2.00
922-0101	CLIP EMI BOTTOM CASE APM APPLE 7100	4	\$0.36
610-400001-001	CLIP MODCOMP	5	\$0.10
247963-001	CLIP PAPER GUIDE	10	\$5.00
667-200002-003	CLIP PLASTIC-LOCK	10	\$0.75
800711-037	CLIP RETAINER	2	\$0.50
5.94E+12	CLIP RS232 BACKSHELL	99	\$0.15
1460-0615	CLIP SDR .625W	1	\$16.00
1200-0844	CLIP SPRING	2	\$1.00
RB1-0818-020CN	CLIP TRANSFER ROLLER	1	\$0.84
5918	CLIPBOARD LETTER SIZE	2	\$0.95
1820-2813	CLOCK REAL TIME	1	\$25.00
TX606	CLOTH TECHNICLOTH LINT FREE	325	\$0.05
105-0520-00-CP	CLUTCH MAG W/SPROCKET	1	\$11.00
105-0519-00-CP	CLUTCH MAGNETIC TEK 4631	2	\$11.00
105-0520-02	CLUTCH MAG W/SPROCKET	2	\$98.00
105-0519-02	CLUTCH MAGNETIC TEK 4631	2	\$125.00
808-860-208-A	CLUTCH NEY LC890	1	\$21.30
922-0598	CLUTCH TRANSFER TRAY2 APM LWP810	1	\$41.40
922-0599	CLUTCH TRANSFER TRAY3 APM LWP810	1	\$41.40
H13-508-5	CMOS ANALOG MULTIPLEXER NEFF 470 16 CH MUX PCB	3	\$7.68
16-6538-00	COIL	7	\$3.00
108-0234-00	COIL 130UH	5	\$80.00
M7331	COIL 330UH RF CHOKE MLT500	2	\$1.10
16-16536	COIL ADJUST HORIZONTAL 10-45 VH	4	\$5.00
131198-901	COIL ASSY PTX P9012 HAMMER COIL	2	\$16.64
449-11-JPN	COIL CRT DEGAUSSING	1	\$20.00
119-0870(EX)	COIL DEFLECTION TEK 4014-1	1	\$85.00
4111-04	COIL DEGAUSS TEK 4111	1	\$25.00
104976-901	COIL HAMMER PHASE FIRE	9	\$5.00
28-08-209	COIL HASTINGS VALVE	2	\$9.00
118-0366-00	COIL HORIZONTAL	2	\$8.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
917039	COIL HORIZONTAL LINEARITY	2	\$7.00
72863000	COIL LEAD ASSY PA3A1A DISK DR	1	\$151.00
L3	COIL LINE DOUBLE YELLOW	1	\$7.00
122136-00	COIL LINEARITY TELEVIDEO	4	\$7.20
104976-901	COIL PHASE FIRE	27	\$14.00
103601-901	COIL PRINT HAMMER PHASE FIRE	3	\$6.24
108-4222-00	COIL RF-82UH	3	\$1.00
108-0769-00-CP	COIL TUB DFL TEK 4631	2	\$20.00
108-0769-00	COIL TUBE DEFL TEK 4631	1	\$75.00
108-0769-00(EX)	COIL TUBE DEFLECTION TEK 4631	1	\$45.00
L2	COIL WIDTH MAC L2	1	\$6.00
DB0977	COLLAR PROTECTIVE	2	\$28.00
102400-001	COLLAR SHAFT	1	\$4.00
104900-001	COMB ASSY	1	\$24.00
25760-001	COMM. + HUB ASSEMBLY	2	\$50.00
160103-499	COMPLAINCE ARM CIPHER M990	1	\$50.00
DEQ VS21V	COMPUTER DEQ MICROVAX	1	\$26,450.00
DEQ VAX2000	COMPUTER DEQ MICROVAX WITH 60PIN FLAT EXPANSION CABLE PART#17-01107-01	1	\$56,195.00
DEQ VS3200	COMPUTER DEQ VS3200 VS300-AA 8MB VCB02 DELQA KA650 3200	1	\$16,372.00
DEQ VS3500	COMPUTER DEQ VS3500 VS355-AA 16MB KA650 RA70 TK70 VCB02 DESQA 3500	1	\$81,015.50
GTW 386	COMPUTER GATEWAY 2000 GTW 386 386SX SONY DAS KIT	1	\$1,200.00
DEQ VS240A	COMPUTER GRAPHICS	1	\$550.00
JCW 386	COMPUTER JCW QIC 386	1	\$1,100.00
REGAL386SX	COMPUTER LAPTOP	1	\$2,035.00
SNM 3/60	COMPUTER SNM 3/60 DESKTOP SUN 1 SLOT	1	\$9,771.00
SNM 4/65	COMPUTER SPARC STATION 1+ / SPARC 2 PCB INSTALLED	1	\$17,466.00
024-862300	CON 8M HDR/SOL BBS-108-G-F.	1	\$6.00
8529267	CONE LEVEL ASSEMBLY	2	\$18.25
171002-001	CONE LEVER ASSEMBLY	1	\$15.00
B-400-7-2	CONN FEMALE	4	\$2.00
B-400-7-4	CONN FEMALE	6	\$2.40
SS-400-7-2	CONN FEMALE	8	\$6.70
175-1470-00	CONN FLEX JUMP TEK4014	2	\$36.00
B-400-1-4	CONN MALE	4	\$1.90
B-400-1-2	CONN MALE	8	\$1.90
SS-400-1-4	CONN MALE	5	\$5.20
UG-349B/U	CONNECTOR	1	\$1.40
1251-4645	CONNECTOR	2	\$3.10
583891-9	CONNECTOR	3	\$12.00
MHAS-124-ZS-GG-13A	CONNECTOR 124P MC68030 PGA APPLE	2	\$10.40
46F4770	CONNECTOR 3415-0001 50P 3M BOARD MOUNT WITHOUT FLANGES	2	\$9.54
46F4833	CONNECTOR 8337-6000 37P FLAT RIBBON CABLE 3M FLANGE/THROUGH HOLE STYLE	1	\$10.08
A3040-ND	CONNECTOR AMP MT DOUBLE ROW 24P AMP PN 2-87456-0	2	\$1.37
H5096	CONNECTOR HIROSE DIN 96P 96 PIN NUBUS APPLE MACINTOSH-2 MAC2	2	\$5.86
46F4682	CONNECTOR IDC 40P MALE 3M SCOTCHFLEX RIGHTANGLE	4	\$4.28
90F4937	CONNECTOR MODULE 50PIN 50P	7	\$2.27
131-0383-00-CP	CONNECTOR PLUG TEK 4631	1	\$9.50
90F3812	CONNECTOR SIMM 30P ANGLE DOUBLE	4	\$4.79
1-640428-0	CONNECTOR 10 PIN 10P	6	\$1.60
1-640428-2	CONNECTOR 12 PIN 12P	2	\$1.00
41-900	CONNECTOR 14P 14PIN RIBBON CAIN	2	\$1.09
90F9224	CONNECTOR 14PIN DIP RIBBON 14P PIN 1 USES SECOND CONDUCTOR BOARDMOUNT	7	\$0.83
DAM-15P	CONNECTOR 15P MALE	2	\$2.70
DAMAM-15P	CONNECTOR 15P MALE REMOVABLE CONTACT	2	\$4.22
T815F-ND	CONNECTOR 15PIN 15P VGA FEMALE SOLDER PINS	2	\$0.45
1-640428-6	CONNECTOR 16 PIN 16P	9	\$1.40
405829	CONNECTOR 16PIN DIP RIBBON 16P	2	\$2.46
89F568	CONNECTOR 34P BERG TYPE 842-812-3422-134	2	\$4.56
3463-0001	CONNECTOR 3M EDGE 34P FEMALE CAN BE USED FOR FLOPPY DRIVE CABLE (STRAIN RELIEF 3M 3448-56 87F	5	\$7.55
640428-4	CONNECTOR 4 PIN 4P	3	\$0.39
131-1672-00	CONNECTOR 40P 131-1672-00 TEK 4014 FEMALE WITH STRAIN RELIEF	2	\$5.50
71602-044	CONNECTOR 44P BERG DEQ TU81 89F4741	1	\$2.15
661-76153-J1	CONNECTOR 4P J1 APPLE	7	\$1.25
640428-5	CONNECTOR 5 PIN 5P	4	\$0.45
46F4829	CONNECTOR 50-PIN 50P DB-50 FLAT RIBBON SCSI	2	\$15.50
609-5015M	CONNECTOR 50PIN HPC5443 FEMALE 50P	2	\$10.51
87F3997	CONNECTOR 60P 60PIN 60 PIN MALE WITH MOUNTING FLANGES TYPE 4660-6000	2	\$11.49
66900-260	CONNECTOR 60P 60PIN FEMALE BERG	2	\$10.36
440-1873-001	CONNECTOR 7 PIN FEMALE MICROTECH CONNECTOR	3	\$29.25
RJ-45	CONNECTOR 8 CONDUCTOR ROUND OVAL	10	\$0.39
40554	CONNECTOR 9 PIN 9P FEMALE TO 15 PIN 15P MALE VIDEO ADAPTER	2	\$6.85

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
120-964-435	CONNECTOR 99P 99PIN RIBBON CABLE PRESS ON PANDUIT FEMALE IDC	2	\$12.50
667-200002-002	CONNECTOR AC POWER 3P MALE MODC	10	\$1.00
480424	CONNECTOR AMP 1-480426-0 4P FEMALE HOLDS MALE PIN P/N 61118	9	\$0.30
D3-052	CONNECTOR BATTERY 9V	10	\$0.34
87F3890	CONNECTOR BERG 24 PIN 24P WITH POLARIZING SLOTS TYPE 3626-6000	10	\$3.97
31-302	CONNECTOR BNC FEMALE	5	\$7.97
31-301	CONNECTOR BNC MALE	3	\$1.36
RG1-0911-000CN	CONNECTOR CABLE ASSEMBLY FUSER	5	\$8.00
46F4801	CONNECTOR CENTRONICS CENTRONIX 50P MALE SCSI IDC RIBBON	3	\$6.87
29F979	CONNECTOR CINCH EDGE CONNECTOR 50-50A-30 25/50	2	\$5.08
512-5722	CONNECTOR DEQ RJ-11-6-M 6P	7	\$0.68
274-003	CONNECTOR DIN 5P MALE KEYBOARD IBM PC GRAPHON	2	\$1.89
630-8275	CONNECTOR DIN 8P MALE APPLE LOCAL TALK NODE	1	\$45.90
609-M161	CONNECTOR DIP 16P MALE RIBBON CABLE ANSLEY	3	\$1.63
46F4831	CONNECTOR DSUB 15P FEMALE FLAT RIBBON PRESS-ON 3M TYPE 8315-6000 ETHERNET	2	\$7.02
HD-DA15S-RAPC	CONNECTOR DSUB 15P FEMALE HIGH DENSITY VGA PCB MOUNT 3X5 SPC TECH	2	\$4.96
DA15P	CONNECTOR DSUB 15P MALE VGA FOR VGA MONITORS	2	\$0.99
DB-25S	CONNECTOR DSUB 25P FEMALE CUP SOLDER	1	\$4.17
DB-25P	CONNECTOR DSUB 25P MALE CUP SOLDER SHIELD=DB-24659 SCREWLOCK=5935-01-179-3497	2	\$3.66
DB-9S	CONNECTOR DSUB 9 PIN 9P 9PIN FEMALE CUP SOLDER	6	\$2.34
DB-9P	CONNECTOR DSUB 9 PIN 9P 9PIN MALE CUP SOLDER	5	\$1.82
CDE9S	CONNECTOR D-SUB 9P FEMALE PRESS ON IBM AT	2	\$2.50
CDE9P	CONNECTOR D-SUB 9P MALE PRESS ON IBM AT	2	\$2.50
251-10-30-170	CONNECTOR EDGE 10P FEMALE CINCH	4	\$3.00
2VH15/1AN5	CONNECTOR EDGE 15P	2	\$2.14
PGB15AS	CONNECTOR EDGE 15P FEMALE ANS	5	\$2.00
C20	CONNECTOR EDGE 20P FEMALE	2	\$0.49
CA-26IDEC-3F	CONNECTOR EDGE 26P FEMALE IDC	3	\$1.19
9010099	CONNECTOR EDGE 30P FEMALE	2	\$25.00
50-44B-10	CONNECTOR EDGE 44P CINCH HP PC MOUNT TEK 4631	2	\$3.69
11203-66592	CONNECTOR EDGE 60P FEMALE HPC TEST ASSY	1	\$10.00
11203A	CONNECTOR EDGE 72P FEMALE HPC TEST ASSY	1	\$200.00
600-7086-451012	CONNECTOR EDGE 86P FEMALE NEWA	1	\$8.00
SS-400-7-4	CONNECTOR FEMALE	0	\$8.40
57-40360	CONNECTOR FEMALE 36P 36PIN	3	\$4.87
XLR-3-11C	CONNECTOR FEMALE CABLE TYPE 3PIN XLR 15A STRAIGHT CORD 9/32 CABLE ACCOMMODATION W/ LATCH-L	10	\$3.77
500-30-50	CONNECTOR FEMALE CENTRONICS CENTRONIX 50P RIBBON SCSI IDC	3	\$10.01
89F4735	CONNECTOR FEMALE HEADER FOR FLAT RIBBON WITH STRAIN RELIEF 16P	4	\$1.19
2109-160275	CONNECTOR FLUKE	2	\$9.48
26-48-1065	CONNECTOR FRICTION LOCK 6P	2	\$0.48
57-20240	CONNECTOR GPIB 24P FEMALE	4	\$4.65
1251-1198	CONNECTOR GPIB RETAINER ASSY HP2250	3	\$5.75
1252-2406	CONNECTOR HEADER 14PIN	2	\$16.00
1252-2407	CONNECTOR HEADER 21PIN	2	\$5.75
1251-1843	CONNECTOR HP	1	\$6.50
67F981	CONNECTOR IDC 10P MALE PAND	36	\$1.00
1-640431-8	CONNECTOR IDC 18P FEMALE MOLEX	27	\$1.00
609-2601M	CONNECTOR IDC 26P FEMALE 13X2 ANSLEY BERG	7	\$4.62
71602-050	CONNECTOR IDC BERG DUPONT 50P 50PIN 50 PIN SCSI FEMALE FLAT RIBBON WITH STRAIN RELIEF	28	\$5.25
512-3768	CONNECTOR IEEE GPIB FEMALE RIBBON	2	\$5.20
826214	CONNECTOR INPUT CONNECTOR	3	\$8.61
57-30360	CONNECTOR MALE 36P 36PIN SOLDER TYPE	4	\$4.56
87F3976	CONNECTOR MALE 50P 50-PIN 50 PIN SCSI FLAT RIBBON IDC WITH MOUNTING FLANGE	7	\$10.36
MDM-15PSP	CONNECTOR MICRO SUB-MINATURE	2	\$45.26
DR-4S-3	CONNECTOR MICRODOT 4P 4PIN	4	\$8.50
MDB1-9SH003F	CONNECTOR MICRODOT 9PIN 9P MALE ITT INDUSTRIES CANNON MALE CONNECTOR	2	\$30.07
MDM-15P H 001 B	CONNECTOR MICROMINIATURE	4	\$46.92
45-1152	CONNECTOR MINI DIN 8P MALE CABLE MOUNT	2	\$1.85
RJ12	CONNECTOR MODULAR APM	2	\$0.46
09-50-3101	CONNECTOR MOLEX 10P FEMALE	2	\$0.79
1-480305-0	CONNECTOR MOLEX 3P FEMALE AMP	75	\$1.00
480426	CONNECTOR MOLEX 4P MALE AVEC	11	\$1.00
09-50-3071-P	CONNECTOR MOLEX 7P FEMALE	22	\$0.34
26-48-1075	CONNECTOR MOLEX 7P MALE	5	\$0.34
3061091	CONNECTOR MOLEX 9P MALE ELCO	5	\$1.00
512-3239	CONNECTOR MTA-100 CONNECTORS RED 4 PIN	10	\$0.20
512-3243	CONNECTOR MTA-100 CONNECTORS RED 8 PIN	10	\$0.46
3450016	CONNECTOR PCB EDGE 28P 620100	2	\$18.00
12-09350-03	CONNECTOR PIN+SOCKET 3P FEMALE AMP	2	\$1.00
551-100180-00	CONNECTOR PIN+SOCKET 40P FEMALE MODC TEST	2	\$40.00
131-0383-00	CONNECTOR PLUG TEK 4631	1	\$9.50

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
266P4-4	CONNECTOR POLYFLO FEMALE 1/4X1/4	24	\$1.34
266P4-2	CONNECTOR POLYFLO FEMALE 1/4X1/8	5	\$1.63
3320	CONNECTOR RECEPTACLE MALE 3 PRONG AC POWER	3	\$1.05
609-M161H	CONNECTOR RIBBON 16 PIN DIP 16P	12	\$1.50
609-25S	CONNECTOR RIBBON 25P FEMALE DSUB RS232 PRESS ON	6	\$3.87
609-25P	CONNECTOR RIBBON 25P MALE DSUB RS232 PRESS ON	2	\$3.53
512-7250	CONNECTOR SIMM 64 PIN WITH CENTER DIVIDER METAL LATCH	3	\$3.12
50F7169	CONNECTOR SIMM AMP 50 PIN 50P MALE W/CTR POST	2	\$3.58
MDM-15SSP	CONNECTOR SUB-MINATURE FEMALE MICRO WITH MOUNTING SCREWS	2	\$40.00
131-0240-00	CONNECTOR TEK	1	\$18.25
09895-66501	CONNECTOR WITH CABLE	1	\$10.00
01011DS005	CONSOLIDATION PCB TESTECK	1	\$975.00
281502-1	CONTACT CRIMP SNAP-IN USE WITH MOLEX CONNECTOR PN 09-50-3071-P	30	\$0.50
131-1530-00	CONTACT ELECTRIC 4631 HIGH VOLTAGE	2	\$1.45
A-3006-ND	CONTACT PIN FEMALE CRIMP WIRE SIZE 24-20 GOLD AMP PN 87046-3	35	\$0.30
34-24071-0	CONTAINER CONDUCTIVE DEQ T SERIES	1	\$50.00
70-21863-01	CONTRAST ASSEMBLY	2	\$119.00
118-8607-00	CONTROL BOARD ENGINE 4694	1	\$600.00
25411201	CONTROL DOOR LID NEC JC1601	2	\$6.76
922-0733	CONTROL FOCUS VR PACK APPLE APM RGB20 MULTISCAN 20	1	\$45.90
90023017	CONTROL LOGIC ASSY 620/600	1	\$1,600.00
311-0310-01A	CONTROL PANEL	1	\$20.00
107827-001	CONTROL PANEL ASSY	1	\$50.00
GS-00S-10282	CONTROL PLOTTER	1	\$100.00
548-200064-001	CONTROLLER GP	3	\$39.00
11305A	CONTROLLER	1	\$200.00
551-100083-001	CONTROLLER	1	\$400.00
20XCC003	CONTROLLER MICROTOUCH TOUCHSCREENS NEW STYLE 5X5	1	\$360.00
516-100523-009	CONTROLLER MULTI	1	\$1,000.00
D620	CONTROLLER PROCESSOR CARDKEY WITH 1-MTI 1-RSI-B 1-MX-2	1	\$1,721.90
1215D5H	CONVERTER DC-TO-DC CONVERTER 5V TO +/- 15V	1	\$102.24
770	CONVERTER SERIAL/PARALLEL 834	1	\$100.00
5505	CORD FAN 4600XP	2	\$2.45
17408S	CORD POWER PIGTAIL 8' REPLACEMENT CORD	8	\$4.32
276-0511-00	CORE IRON	19	\$0.20
276-0506-00	CORE IRON	36	\$0.25
RG1-0933-000	CORONA ASSEMBLY APM APPLE LASER2 HPC 33449	3	\$12.00
GC10-5002	CORONA DOPE RED X	1	\$5.43
MMM-658	CORRECTION COVER-UP TAPE 6-LINE WHITE	1	\$2.86
9402	CORRECTION FLUID MULTIUSE WHITEOUT FOR TYPEWRITTEN HANDWRITTEN PHOTOCOPI	4	\$1.25
80837773001	CORRECTION RIBBON	5	\$3.51
119-0493-00	COUNTER TEK 24VDC	1	\$10.00
119-0493-00	COUNTER TEK	1	\$50.00
102732-002	COUNTER WEIGHT ASSEMBLY WITH ROLLERS	1	\$42.00
102732-903	COUNTER-WEIGHT ASSY PTX P600	1	\$113.00
L2152450-296-1	COUPLER	1	\$4.00
26-3805	COUPLER ACOUSTIC	1	\$36.00
07470-40005	COUPLER GRIT SHAFT	1	\$20.00
07470-40004	COUPLER KING	1	\$20.00
M354001B030	COUPLING	2	\$90.00
70100147	COUPLING ASSY.	1	\$14.19
260-0984-00	COUPLING SWITCH	3	\$1.30
970-1299	COVER CASSETTE DOOR APM LASER+	1	\$7.20
1531-7120	COVER REFLECTOR CLEAR PLASTIC	2	\$17.25
922-0789	COVER ACCESS COVER DISPLAY APM APPLE POWERBOOK PB540 PB540C PB520 PB520C	2	\$10.80
520-0344	COVER BATTERY HOLDER MAC 2/2X	3	\$1.00
106947-001	COVER CAM	1	\$12.00
133796-901	COVER HAMMERBANK ASSY.	1	\$177.84
RA1-4294-000CN	COVER LOWER DELIVERY	2	\$13.95
RA1-4024-1	COVER LOWER DELIVERY HPC LASER2 33440A	1	\$5.00
Y440003001	COVER PRINTER	3	\$15.00
RA1-3960-000CN	COVER RIGHT COVER FUSER ASSEMBLY HPC APM LASER2	4	\$2.40
662-100006-104	COVER SWITCH 6-DIP	14	\$5.00
662-100006-105	COVER SWITCH MODCOMP	6	\$0.50
53532703	COVER TRAY PAPER RIA LP4080 DEC LN03	1	\$7.75
949 0144	COVER UPPER COVER ASSEMBLY LASER2	1	\$33.00
107357-001	CPQ PORT3	1	\$835.00
9250B-011	CPU	1	\$100,996.00
540-2761	CPU FAN ULTRA SPARC 1	1	\$15.00
661-0413	CPU BD MAIN IW II	1	\$114.00
486DX2-66	CPU INTEL 486DX2-66 SYNTAX PN# R4866	1	\$139.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
K54-610	CREW 2 WIPES LINT FREE 1 PACK = 50 WIPES ISSUED PER PK.	1	\$13.95
1006	CRIMPER LUG WIRE	1	\$15.00
076-0207	CRT	1	\$215.00
340KRB4A	CRT GO235 AMBER DISPLAY	1	\$45.00
R14AP31-DH	CRT GREEN TVI 955 GPH GO250 14"	1	\$52.00
M34KDZ30X72	CRT GTW PMV14 14"	2	\$195.00
076-0103	CRT & YOKE ASSY MACINTOSH	2	\$81.00
CE816M20C104GSINF	CRT 19" MONOCHROME	1	\$125.00
09836-67922	CRT ASSEMBLY	1	\$500.00
076-0563	CRT ASSEMBLY ANTI-GLARE APM RGB16 CONVERGENCE PROBLEM GOOD FOR TROUBLESHOOTING ONLY	1	\$200.00
09826-67921	CRT ASSY HP9826	1	\$215.00
672-1115-00	CRT BOARD ASSEMBLY	1	\$500.00
670-6671-00	CRT BOARD ASSEMBLY	1	\$1,000.00
2353781-B	CRT COLOR DEQ VR241A	1	\$100.00
2090-0076	CRT DNX 150	1	\$95.00
CE645M5C103	CRT HPC	1	\$100.00
00085-69004	CRT HPC 85	1	\$310.00
9845	CRT HPC 9845	1	\$100.00
29-25537-00	CRT SOCKET BOARD	1	\$190.00
8-738-551-92	CRT SONY GDM 1601 GDM1601 M41JTG15X	1	\$1,051.18
A-1020-465-A	CRT SONY GDM1950 GDM1952 M49JDA15X	1	\$1,235.00
154-0739-50	CRT TEK 4631	1	\$400.00
661-0347	CRT VIDEO BD AC RGB	1	\$61.00
09816-67007	CRT YOKE ASSY HP9816	1	\$235.00
996-1130	CRYSTAL 10.0 MHZ TTL OSC. CKT.	2	\$2.47
658-200000-002	CRYSTAL 12.5 MODCOMP	1	\$74.00
129762-4	CRYSTAL 14.728MHZ	1	\$12.00
658-200000-001	CRYSTAL 20 MHZ MODCOMP	1	\$74.00
T122149-00	CRYSTAL 22.29MHZ	3	\$16.00
658-100000-008	CRYSTAL 3.686 MHZ	1	\$15.00
MP100	CRYSTAL CTS 10MHZ	3	\$1.88
2757A29	CUTTING WHEEL	1	\$5.26
23W-1402-VV	CV REPAIR KIT WITH VANES	1	\$208.50
548-100128-001	D.C.C. MODCOMP	5	\$79.00
4320-0371	DAMPER PEN LIFT	1	\$2.00
TLZ09-AA	DAT TAPE DRIVE	1	\$175.00
SDT9000	DAT TAPE DRIVE SCSI SONY 24GB 2 YEAR WARRANTY THRU SONY	1	\$485.00
SDT-9000	DAT TAPE DRIVE SCSI 24GB 3 YR. WARRANTY FROM 9/3/99	1	\$748.00
70-18461-02	DATA HEAD A-DN DEC RA60	1	\$140.00
70-18461-01	DATA HEAD A-UP DEC RA60	1	\$289.00
70-18461-04	DATA HEAD B-DN DEC RA60	2	\$289.00
70-18461-03	DATA HEAD B-UP DEC RA60	2	\$289.00
ME7130	DATA TAPE 4MM 125M DDS-3	7	\$9.50
1031-23153	DATEX	1	\$10.00
661-0807	DC CONTROLLER	1	\$272.70
661-0094	DC CONTROLLER APM LWPRO	1	\$108.00
RG5-0966-050	DC CONTROLLER PCB ASSEMBLY (REM) LASERJET4	1	\$155.77
DGD15CL	DDS CLEANING CARTRIDGE TAPE SONY	5	\$10.00
C1599A	DDS-S SCSI DAT DRIVE INTERNAL	1	\$230.00
6863	DECADE BOS SHALLCROSS FOR PARTS	1	\$350.00
WYLE1	DECADE SHAFT ENCODER	1	\$100.00
MC14028BCP	DECODER IC	3	\$0.90
670-3095-03	DEFL AMP TEK	1	\$181.25
29-27564-01	DEFLECTION BOARD	1	\$235.00
DM2060-SP-12	DEFLECTION MODULE	1	\$446.00
24-016	DEGAUSSER COIL TAPE ERASER CRT DEGAUSSING	1	\$50.00
971-0023	DELIVERY ASSEMBLY ASSY APM LASER2 EXIT ROLLER ASSEMBLY	5	\$31.80
971-0022	DELIVERY COUPLER ASSEMBLY APM LASER2	2	\$5.62
922-0292	DELIVERY ROLLER ASSEMBLY APM LWPRO	0	\$108.00
949-0186	DELIVERY SENSING LEVER	1	\$3.30
D5S-6	DEOXIT	2	\$10.95
3X3X1/8	DESICCANT BAGS	1083	\$0.25
74-25424-01	DETENT L10 DEQ RA60 SPRING	2	\$10.00
7386	DETERGENT MULTI-PURPOSE CLEANER SPRAY-ON SPRAY-OFF GENERAL	7	\$0.92
386-2791-00	DEVELOPER	1	\$20.00
135-034682-101C	DEVELOPER UNIT NIF LC800 LC890 DSH 5080	2	\$216.32
53533032	DEVELOPER UNIT RICOH LP4080 DEQ LN03	1	\$299.25
51-06-55204	DH CABLE	2	\$5.00
961717-001	DIAGNOSTIC ASSY CIPHER M990	1	\$198.00
H607197	DIAGNOSTIC DISK MEDIA PACK PA3A1A 67M TEST	1	\$300.00
067-0900-00	DIAGNOSTIC ROM PACK TEK 4052	1	\$125.00



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
5.313.036	DIAL VERNIER	1	\$30.00
25F1096	DIALIGHT LAMP WHITE 28V 40MA TYPE 507-3917-0375-600	2	\$8.08
AG288	DIAPHRAGM	6	\$4.90
267858	DIAPHRAM	89	\$0.25
AF818B	DIAPHRGAM	4	\$8.00
24-04-010	DIGITAL DISPLAY 3 1/2 DIGITS. FOR HASTINGS MODEL 200/400 POWER SUPPLY READOUT	1	\$75.00
1N4747	DIODE	2	\$0.10
1N4150	DIODE	15	\$0.22
1901-0040	DIODE	4	\$0.28
1N91	DIODE	4	\$0.42
1N4935	DIODE	3	\$0.50
1N4720	DIODE	3	\$0.76
TM24	DIODE	1	\$0.90
1N625	DIODE	6	\$0.90
1N714	DIODE	1	\$0.92
1N2976RB	DIODE	1	\$1.00
1N467	DIODE	1	\$1.00
1N5227B	DIODE	1	\$1.00
1N599	DIODE	1	\$1.00
1N842	DIODE	1	\$1.00
1N2862A	DIODE	2	\$1.00
1N3023A	DIODE	2	\$1.00
1N962B	DIODE	2	\$1.00
4JA10C	DIODE	2	\$1.00
1N5226B	DIODE	3	\$1.00
1N863	DIODE	3	\$1.00
1N2040	DIODE	4	\$1.00
1N955	DIODE	4	\$1.00
MZ361	DIODE	4	\$1.00
1N4157	DIODE	4	\$1.04
1N482	DIODE	1	\$1.05
7576003-01	DIODE	1	\$1.10
1901-0158	DIODE	2	\$1.10
1N4146	DIODE	9	\$1.10
1N347	DIODE	10	\$1.10
1N4164	DIODE	5	\$1.12
1N497	DIODE	10	\$1.16
10M27Z1	DIODE	1	\$1.20
1N1606	DIODE	1	\$1.20
1N2974A	DIODE	2	\$1.20
1N498	DIODE	12	\$1.20
1N116	DIODE	14	\$1.20
MR198B	DIODE	3	\$1.25
1N163	DIODE	1	\$1.26
1N825	DIODE	3	\$1.26
152-0151-00	DIODE	1	\$1.30
1N1594A	DIODE	1	\$1.30
1N250A	DIODE	2	\$1.30
1N86	DIODE	2	\$1.30
368H7022RZ	DIODE	5	\$1.30
1N4736A	DIODE	4	\$1.33
1N96A	DIODE	2	\$1.40
1N4739A	DIODE	3	\$1.40
1N4734A	DIODE	6	\$1.40
SK3017B	DIODE	3	\$1.46
1901-0030	DIODE	3	\$1.75
1902-0052	DIODE	2	\$2.45
152-0274-00	DIODE	2	\$2.50
1910-0016	DIODE	4	\$3.10
152-0408-00	DIODE	3	\$4.20
152-0153-00	DIODE	3	\$5.00
1902-0216	DIODE	1	\$8.50
1902-0206	DIODE	2	\$8.50
1902-0166	DIODE	2	\$9.00
152-0458-00	DIODE	1	\$9.75
1903-0003	DIODE	2	\$16.00
900-293	DIODE	1	\$22.73
130251-00	DIODE	1	\$1.00
152-0661-00	DIODE	3	\$1.00
152-0655-00	DIODE	4	\$2.00
152-0789-00	DIODE	7	\$2.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
152-0841-01	DIODE	4	\$3.00
1902-0939	DIODE	1	\$4.00
152-0423-00	DIODE	4	\$4.00
152-0399-00	DIODE	1	\$5.00
1901-0693	DIODE	4	\$8.00
ECG599	DIODE 15A ULTRA FAST RECOVERY	2	\$3.25
1N5386B	DIODE 180V ZENER	1	\$1.69
ECG5137A	DIODE 24V 5W ZENER	3	\$2.75
250JB6L	DIODE 25AMP 600VOLT BRIDGE RECTIFIER	2	\$6.00
1902-0072	DIODE BREAKDOWN:7.75V+/- .25 V	1	\$8.50
8-719-500-43	DIODE D8LDA20 GDM1950 GDM1952	2	\$8.77
SK3130	DIODE DAMPER SILICON PIV 1300V	1	\$1.40
022-706900	DIODE HIGH VOLTAGE TYPE FM50 5KV .01A	2	\$5.00
253 010 810	DIODE HOT CARRIER CASE 15 TYPE HP 2810	6	\$3.55
ECG575	DIODE MUR1100	1	\$0.68
230 150 045	DIODE PICOAMPERE TO-18 CASE 2 LEAD TYPE BAV45	6	\$3.40
ECG576	DIODE RECTIFIER 35NS 5A	2	\$1.54
1901-0460	DIODE STABISTOR	2	\$2.60
BAW62	DIODE SWITCHING. DO-35/HIGH SPEED	4	\$0.40
1.5KE15CA	DIODE TRANSORB CLAMPING	28	\$1.14
1N4934	DIODE VT220	5	\$0.14
1N4744	DIODE ZENER 15V.	5	\$0.28
5089A	DIODE ZENER 51V 1W	3	\$0.33
28142041	DIODE ZENER 11V TESTED	6	\$5.00
1N753A	DIODE ZENER 1N753A DZ 6.2V .4W	2	\$0.84
152-0295-00	DIODE ZENER 82V 1W 5% 1N3042B REF VR239	2	\$2.28
A15A	DIODE 100V A15A	4	\$0.60
400031	DIODE 1200V 20A ISC HR1200	2	\$4.80
152-0409-00	DIODE 12KV	8	\$2.00
152-0008-00	DIODE 152-0008-00	1	\$0.35
152-0061-00	DIODE 152-0061-00 TEK 4631	5	\$0.40
152-0075-00	DIODE 152-0075-00	2	\$0.65
152-0115-00	DIODE 152-0115-00	1	\$18.50
1902-0172	DIODE 1902-0172	4	\$3.25
1N137A	DIODE 1N137A D-SI GENERAL PURPOSE 200 PRV Z4	9	\$0.75
1N270	DIODE 1N270	2	\$0.98
1N277	DIODE 1N277	2	\$0.18
1N3022	DIODE 1N3022 ZD 12.0V 1W Z3A ZENER NTE142A	3	\$0.98
152-0229-00	DIODE 1N3034B	3	\$0.55
1N3827	DIODE 1N3827 ZD 5.6V 1W Z3A 2/PKG.	1	\$1.25
1N4001	DIODE 1N4001 VR50V IO1A 50V PIV 1A	27	\$0.09
1N4002	DIODE 1N4002 100V PIV 1A	2	\$0.05
1N4003	DIODE 1N4003 200V PIV 1A	2	\$0.05
1N4004	DIODE 1N4004 400V PIV 1A	6	\$0.15
1N4005	DIODE 1N4005 SR VR=600V IO= 600V PIV 1A	9	\$0.03
1N4006	DIODE 1N4006 SR VR=800V IO= 800V PIV 1A	3	\$1.55
1N4007	DIODE 1N4007 SR VR=1000V IO=1A 1000V PIV 1A	18	\$0.19
1N4148	DIODE 1N4148 SWITCHING RECTIFIER 75V 0.15A DO-35	4	\$1.08
1N4152	DIODE 1N4152	3	\$1.08
1N4154	DIODE 1N4154	12	\$0.04
1N4247	DIODE 1N4247 R-SI 600 PRV 1.0A	2	\$0.30
1N4372	DIODE 1N4372 ZENER 3V .5W	3	\$0.25
1N4384	DIODE 1N4384 SR VR=400V IO=1A	3	\$0.73
1N4448	DIODE 1N4448	4	\$0.45
1N457	DIODE 1N457	4	\$1.08
1N459	DIODE 1N459	3	\$0.34
ECG5067A	DIODE 1N4730 ZENER 3.9V 1W SK3V9 1N4730	7	\$0.99
1N4741	DIODE 1N4741 ZENER SK11V 11V 1W	3	\$0.11
152-0400-00	DIODE 1N4936	4	\$0.25
ECG5802	DIODE 1N5402 RECTIFIER 3A 250V D027 CATHODE/CASE	2	\$0.87
1N719A	DIODE 1N719A	2	\$0.79
1N746A	DIODE 1N746A DZ3.3V .4W	11	\$0.85
1N748	DIODE 1N748	4	\$0.51
1N749A	DIODE 1N749A DZ4.3V .4W	14	\$0.43
1N750A	DIODE 1N750A DZ 4.7V .4W	3	\$0.08
1N751A	DIODE 1N751A DZ 5.1V .4W	3	\$0.34
1N752A	DIODE 1N752A DZ 5.6V .4W	9	\$0.74
1N754A	DIODE 1N754A DZ 6.8V .4W SK6A8 ECG5014A	3	\$0.47
1N755A	DIODE 1N755A DZ 7.5V .4W	5	\$0.79
1N756A	DIODE 1N756A DZ 8.2V .4W	2	\$0.71
1N757A	DIODE 1N757A 9.1V .4W ZENER	2	\$0.43

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1N758A	DIODE 1N758A DZ 10V .4W	4	\$0.70
1N759A	DIODE 1N759A DZ 12V .4W	4	\$1.16
1N821	DIODE 1N821	2	\$0.76
1N823A	DIODE 1N823A	1	\$0.21
1N936	DIODE 1N936 SILICON REFERENCE DIODE 9.1V .5W 1/2W CASE D07 ZENER	4	\$0.79
1N964A	DIODE 1N964A ZENER 13V 400W	5	\$0.79
1N965B	DIODE 1N965B	4	\$3.50
2N6401	DIODE 2N6401 SK3574 SCR 2N6396	4	\$4.25
653-200033-001	DIODE 35V MODCOMP	2	\$27.00
152-0409-00	DIODE 4023 TERM TEK	2	\$3.15
050-1874-00	DIODE 5000V 10MA	48	\$9.00
152-0412-00	DIODE 50V 3A 152-0412-00	5	\$3.80
1N5236	DIODE 7.2V ZENER ECG5105A	1	\$1.50
BA159	DIODE BA159	3	\$1.15
1-021-0403	DIODE BALL EL	5	\$1.21
1-021-0360	DIODE BALL EL	2	\$10.84
HLMP-3750	DIODE BR5501 LED RED ULTRA BRIGHT T-1 3/4	6	\$0.29
BTD-4	DIODE BTD-4	6	\$0.81
SK9084A(DIACS)	DIODE DIAC SK9084A	3	\$1.11
MUR440	DIODE FAST RECOVERY UES1106	2	\$0.62
11-13496-00	DIODE FAST SWITCHING	1	\$27.00
MUR880	DIODE FAST-RECOVERY 800V 8A MOTOROLA	4	\$4.02
SK9938	DIODE FR153	2	\$1.85
1901-0880	DIODE HP2250	5	\$0.20
1902-3104	DIODE HP2250	5	\$0.25
ECG552	DIODE HP2674A	2	\$1.39
ERZ-08D3K101	DIODE IKE DM2060	1	\$5.95
4801-01-5282	DIODE IN5282	9	\$0.15
801081-001	DIODE LIGHT EMITTING	4	\$1.00
QX264P30601	DIODE MITSUBISHI MONITOR R2KY MBI XC1430	3	\$4.80
MR817	DIODE MR817 DIODE FAST RECOVERY 2A 1400V ECG506	4	\$1.78
MR856	DIODE MR856 1901-1087 BYW95A ECG580	3	\$0.62
1901-1087	DIODE MR856 HV HP DELETE AT ZERO BAL.EXISTS IN STOCK AS PN MR856	3	\$2.35
653-200027-001	DIODE MSD51 MODCOMP 35V 60A	2	\$32.00
653-600014-001	DIODE MU5254 GREEN	7	\$0.70
653-600014-002	DIODE MU5354 YELLOW	7	\$1.40
SK10A	DIODE MZ310-C1 ZENER 10V	3	\$0.97
11-10715-00	DIODE NSR8117 TO-3 DEC	4	\$9.24
11-12595-01	DIODE OF594PH VT100	13	\$2.00
H21B1	DIODE PHOTO TESH	2	\$7.50
8-719-311-72	DIODE RBV-406H BRIDGE APM MAC2RGB	2	\$2.86
152-0426-00	DIODE RECT HIGH V	3	\$1.00
ECG5838	DIODE RECTIFIER 3A 400V D04 CATHODE/CASE	2	\$2.85
SK5036	DIODE RG2G SK5036 11-16476-00 MR850	3	\$2.60
ECG558	DIODE RGP10K FAST RECOVERY RECTIFIER 1A 1500V	2	\$1.54
MBR360	DIODE SHOTKEY 90V 2A	1	\$1.08
SK3848	DIODE SI 3A 600V	2	\$1.46
152-0107-00	DIODE SILICON 375V 400MA	6	\$1.05
SK3125	DIODE SK3125 DAMPER USE WITH SK3115	4	\$2.40
ECG5815	DIODE SK3640	1	\$2.89
SK5040	DIODE SK5040 1000V 3A	2	\$2.60
SK5A1	DIODE SK5A1 ZPD5.1 1N751 1N5231B ECG5010A	2	\$0.79
ECG5809	DIODE SK9010 MR510 3A 1000V D027 CATHODE/CASE	2	\$2.60
SK9091	DIODE SK9091 FAST RECOVERY RECTIFIER 200V 0.2A DO-35	4	\$1.08
MBR1045	DIODE SWEEP POWER SUPPLY	4	\$1.80
152-0408-00	DIODE TEK 4014-1 HV 10KV 5MA	3	\$1.00
152-0233-00	DIODE TEK TERM	3	\$0.25
152-0170-00	DIODE TEK4014	4	\$4.00
152-0333-00	DIODE TEK4014-1	2	\$0.15
152-0385-00	DIODE TEK4631	4	\$3.00
BY329-1200	DIODE TO-220 CASE ECG6245	2	\$4.99
152-0140-01	DIODE TUNNEL 10MA	1	\$42.00
152-0402-00	DIODE TUNNEL 2MA	2	\$7.50
UZ715	DIODE UZ715	5	\$2.21
ECG116	DIODE V062 ECG116 SK3311 600PIV 1A	3	\$0.73
152-0087-00	DIODE ZENER 100V 1N3044B	5	\$2.95
152-0149-00	DIODE ZENER 10V	1	\$0.30
1N966B	DIODE ZENER 16V	8	\$0.15
1N967B	DIODE ZENER 18V	13	\$0.15
SK18X/5133A	DIODE ZENER 18V 5W ECG5133A	4	\$2.18
1N5371B	DIODE ZENER 1N5371B 60V 5W	4	\$0.65

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
47527	DIODE ZENER 1N963B 12V	3	\$0.79
1N4750	DIODE ZENER 27V	1	\$0.06
1N4615	DIODE ZENER 2V	4	\$1.10
ECG134A	DIODE ZENER 3.6V 1W	3	\$0.98
1N4731	DIODE ZENER 4.3V 1W	2	\$1.95
1N976B	DIODE ZENER 43V	1	\$2.00
152-0394-00	DIODE ZENER 47V	1	\$2.00
SK5V1	DIODE ZENER 5.1V 1W	2	\$1.00
1N5339B	DIODE ZENER 5W DEQ RX50-D 5.6V	2	\$2.18
1N4735A	DIODE ZENER 6.2V 1W	2	\$0.98
1N5235B	DIODE ZENER 6.8V ECG5014A	2	\$0.08
1N4737	DIODE ZENER 7.5V HASTING VACUUM GAUGE	2	\$0.96
TL4311	DIODE ZENER TL4311	2	\$0.50
44F3617	DIP SWITCH BD SERIES MFG PART NO. BD008AV RIGHT ANGLE TERMINAL STYLE.	4	\$2.08
1000-0530	DISC TACHOMETER HPC 85F. MUST BE ISSUED AND USED WITH CAPSTAN PN 1500-0538	2	\$8.75
09121-89405	DISC CLEANING HP9121	3	\$36.00
70-09778-00	DISC DEC	1	\$15.00
5450-025	DISCHARGE LINER KIT	4	\$66.00
076-0243	DISCHARGE TOOL CRT	1	\$30.00
00257-ST225	DISK CHOCOLATE MEDIA ST225 ST251 5.25" SEAGATE	27	\$12.00
61X8899	DISK FLOPPY IBM	1	\$45.00
DS-RZ1DF-VW	DISK 9.1GB 9.1 GB ULTRAWIDE 1 YR. WARRANTY 3 YR. MANF.WARRANTY FROM 02/00 18.4GB 18GB	1	\$600.00
09121-89400	DISK ALIGNMENT	1	\$60.00
800180	DISK ALIGNMENT 5.25" 360KB 48TPI	2	\$54.00
883-51	DISK ALIGNMENT CDC 9780 T306 300M BK7XXX	1	\$1,000.00
09122-89410	DISK ALIGNMENT DF	1	\$80.00
CD-R	DISK BLANK WRITABLE CDR COMPACT DISK MEDIA 650MB BLANK	34	\$0.70
CD-RW	DISK CDRW MEDIA BLANK REWRITABLE 650MB CD-RW	6	\$2.50
09836-10034	DISK DIAGNOSTIC	1	\$100.00
ST32430N	DISK DRIVE 2GB SCSI HP FORMAT	1	\$89.00
8529206	DISK DRIVE 5.25" 360KB F/H IBM PC/XT FLOPPY	2	\$39.00
ST410800N	DISK DRIVE SEAGATE 9GB	4	\$78.00
ST15150WC	DISK DRIVE WIDE SCSI 4.3GB	2	\$22.00
FD-505	DISK DRIVE 1.44(3.5)/1.2MB(5.25) DUAL FLOPPY DRIVE	2	\$115.00
QA-D31V-14(EX)	DISK DRIVE 3 1/2" REMOVABLE	2	\$195.00
ST32550WC	DISK DRIVE 3.2GB 3.2 GIG 3.2 GB SCSI 3.5" WIDE	1	\$789.00
661-0345	DISK DRIVE 3.5" 800KB FLOPPY DRIVE APM	9	\$197.00
6450354	DISK DRIVE 44MB IBM 8580	1	\$625.00
1255-005	DISK DRIVE 5.25" EXTERNAL FLOPPY MAC II	1	\$285.00
RD53(UT)	DISK DRIVE 71MB	1	\$320.00
ST173404LW	DISK DRIVE 73GB SCSI 68PIN 3.5IN. 10000RPM	1	\$685.00
9720-736	DISK DRIVE 741 MBYTE HARD DISK FIXED SABRE PA8G1 PA8G2A	1	\$4,405.00
8654238	DISK DRIVE ASSEMBLY BAND-DISK DRIVE	1	\$3.00
8286131	DISK DRIVE D/S 5.25"	3	\$146.00
ND-04DE-G	DISK DRIVE F-HH 560M	1	\$200.00
661-0214	DISK DRIVE FIXED APM APPLE 160MB SCSI MAC2VX	1	\$183.00
100643-001	DISK DRIVE FIXED 10MB COMPAQ	1	\$690.00
6128260	DISK DRIVE FIXED 120MB 3.5IN IBM PS/2 MODEL 70	1	\$410.00
108080-001	DISK DRIVE FIXED 130MB CPQ DP386	1	\$1,695.00
1654-7	DISK DRIVE FIXED 161MB 5.25" ESDI HALF HEIGHT MICROPOLIS	1	\$395.00
1355	DISK DRIVE FIXED 170M 5.25" ESDI	2	\$1,395.00
661-0211	DISK DRIVE FIXED 2.5" SCSI APM APPLE POWERBOOK PB160 PB170 PB180 HDA	1	\$210.60
MXR7213R(UT)	DISK DRIVE FIXED 200M SCSI SNM 4/75	1	\$570.00
LXT-213SY	DISK DRIVE FIXED 200MB SCSI 3.5"	1	\$215.00
WD325N	DISK DRIVE FIXED 20MB 3.5" IBM P/S 2 8550 HDA.	1	\$150.00
WD325N(EX)	DISK DRIVE FIXED 20MB IBM PS/2 8550 HDA HARD DRIVE W/CONTROLLER	1	\$150.00
ST225N	DISK DRIVE FIXED 20MB SCSI	2	\$185.00
661-0890	DISK DRIVE FIXED 250MB SCSI APM APPLE HARD HDA 3.5"	2	\$242.10
RA70(UT)	DISK DRIVE FIXED 280MB 5.25" DEQ SDI RA70-AA WITH RA70E-SA SLIDE MOUNT KIT FOR BA213 3500	1	\$850.00
1080MB	DISK DRIVE FIXED 2GB 3.5" QUANTUM SCSI APM APPLE	1	\$795.00
ST15230N	DISK DRIVE FIXED 3.5" 3.2IN SCSI 4.2 GB SCSI 2 FAST (5 YEAR WARRANTY)	1	\$1,029.00
90X9403	DISK DRIVE FIXED 30MB 3.5" PS/2 MODEL 50Z IBM 8550	1	\$515.00
370-1133	DISK DRIVE FIXED 327M 5.25" ESDI SUN DEQ	1	\$5,810.00
M2333	DISK DRIVE FIXED 337MB 8" FUJ M2333	1	\$4,800.00
XT4380E	DISK DRIVE FIXED 380MB 5.25" MAXTOR ESDI NOT FOR PC'S	1	\$1,350.00
ST157N	DISK DRIVE FIXED 40M SCSI 3.5" APM	7	\$319.00
661-1629	DISK DRIVE FIXED 40MB 3.5" SCSI APM 1" HEIGHT HDA	12	\$300.00
661-1629(EX)	DISK DRIVE FIXED 40MB 3.5" SCSI APM APPLE HDA W/BACKET AND CABLES	6	\$180.00
661-0391	DISK DRIVE FIXED 40MB 5.25" SCSI	1	\$1,055.00
ST251N	DISK DRIVE FIXED 40MB SCSI	1	\$350.00
RD53-A	DISK DRIVE FIXED 71MB 1355 SUN MSCP WINCHESTER	2	\$579.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
80-SCSI	DISK DRIVE FIXED 80MB 3.5" MAC2CX SCSI 661-0600 APM APPLE	6	\$292.00
661-0600(EX)	DISK DRIVE FIXED 80MB 3.5" MAC2CX SCSI 661-0600 APM APPLE	2	\$108.00
ST296N	DISK DRIVE FIXED 80MB 5.25" 1/2 HT 661-0411	1	\$569.00
ST15150ND	DISK DRIVE FIXED DIFFERENTIAL SCSI 4.3GB 3.5" WARRANTY THRU 12/99	1	\$350.00
1664-7	DISK DRIVE FIXED ESDI 345MB HDA 1664-7 MICROPOLIS	1	\$160.00
ST157A	DISK DRIVE FIXED HARD DRIVE 44MB 3.5" IDE	1	\$184.00
661-0373	DISK DRIVE FIXED HDA 20MB 3.5" MAC2CX APPLE	2	\$519.00
661-1630(EX)	DISK DRIVE FIXED HDA 40MB 2.5IN APPLE APM	1	\$313.00
661-0391	DISK DRIVE FIXED HDA 40MB 5.25" SCSI APPLE APM WITH BRACKET	3	\$185.00
661-0391(EX)	DISK DRIVE FIXED HDA 40MB 5.25" SCSI APPLE APM WITH BRACKET	2	\$296.00
661-1630	DISK DRIVE FIXED HDA 40MB SCSI 2.5" 2.5IN APM PB170 PB170 APPLE	1	\$313.00
ST12400N	DISK DRIVE FIXED SCSI 2.1GB 2.1 GB 3.5" 5 YR.WARRANTY (6-9-94)	1	\$1,449.00
RO3259T	DISK DRIVE FIXED SCSI RODIME RO3259T APM APPLE MAC2CX	1	\$295.00
ST42400N	DISK DRIVE FIXED SEAGATE 5.25" SCSI ELITE 2 2.1 GB	1	\$450.00
3-29003	DISK DRIVE FLOPPY	2	\$200.00
8286130	DISK DRIVE FLOPPY 1.2M 5.25"	1	\$150.00
1.2M-5.25IN	DISK DRIVE FLOPPY 1.2MB 5.25" 1/2HT 1.2M (JCC-FD205) (SYNTAX-FDO2A)	4	\$36.50
1.44M-3.5IN	DISK DRIVE FLOPPY 1.44MB 1.44M 3.5" TOSH ND352	2	\$27.00
661-1651	DISK DRIVE FLOPPY 1.44MB 19MM HIGH APM PB170	2	\$89.00
340-3026	DISK DRIVE FLOPPY 1.44MB 3.5" 1/3 HEIGHT DELL	1	\$140.00
72X8523	DISK DRIVE FLOPPY 1.44MB 3.5" IBM PS/2 8580	4	\$60.00
64F0162	DISK DRIVE FLOPPY 1.44MB 3.5" IBM PS/2 MODEL 55SX	3	\$70.00
15F7503	DISK DRIVE FLOPPY 1.44MB 3.5" IBM PS/2 MODEL 70	1	\$59.00
661-0061	DISK DRIVE FLOPPY 1.44MB PB520 APM APPLE	1	\$138.60
TM100-1	DISK DRIVE FLOPPY 180K F/H 5.25"	4	\$200.00
OA-D32W11	DISK DRIVE FLOPPY 3.5"	1	\$180.00
370-1150(EX)	DISK DRIVE FLOPPY 3.5"	1	\$306.00
661-0474	DISK DRIVE FLOPPY 3.5" 1.4MB APM APPLE MAC2X	4	\$324.00
230125-001	DISK DRIVE FLOPPY 3.5" AST 386 LAPTOP ARH	1	\$124.00
370-1207(UT)	DISK DRIVE FLOPPY 3.5" SNM HIGH DENSITY 4/65 4/75	1	\$200.00
SMD-280	DISK DRIVE FLOPPY 3.5" TOSHIBA T3100 720KB LOW DENSITY	1	\$175.00
M4851-1219(EX)	DISK DRIVE FLOPPY 360KB HALF HEIGHT 5.25"	1	\$32.00
M4851-1292	DISK DRIVE FLOPPY 360KB HALF HEIGHT 5.25" MITSUBISHI	2	\$200.00
77618110(EX)	DISK DRIVE FLOPPY 8 INCH	1	\$50.00
MN8425	DISK DRIVE HARD DISK COMPAQ FIXED 3.5" 20M MFM	1	\$265.00
ST225-2	DISK DRIVE HARD DISK DRIVE 20MB SE FIXED	1	\$35.00
T312-0090	DISK DRIVE HARD FIXED 20M TOS TOSHIBA T3100	1	\$195.00
MK1002MAV	DISK DRIVE HARD IDE 1080MB 2.5IN 2.5" NOTEBOOK TOS TOSHIBA FOR LAPTOP COMPUTERS	1	\$285.00
92773400	DISK DRIVE HD DATA BOTTOM PA3A1A DISK DR	1	\$93.00
92773401	DISK DRIVE HD DATA TOP PA3A1A DISK DR	1	\$60.00
92773402	DISK DRIVE HD SERVO PA3A1A DISK DR	1	\$180.00
72X8519	DISK DRIVE PS2 ONLY 70 MB IBM 8560 8580 ESDI	2	\$770.00
SQ555	DISK DRIVE REMOVABLE 44MB INTERNAL SQT SYQUEST MMF MASS MICROSYSTEMS	1	\$175.00
SQ5110	DISK DRIVE REMOVABLE 88MB INTERNAL SYQUEST SQT	1	\$271.00
ST31230N	DISK DRIVE SCSI 1 GB CDC 94181-702	1	\$95.00
ST15150N	DISK DRIVE SCSI 4.3GB MODCOMP FORMAT	4	\$23.00
07N3200	DISK DRIVE SCSI ULTRA WIDE 68P 68PIN 36.4GB	1	\$300.00
ST238R	DISK DRIVE ST238R SEAGATE 65MS RLL 30MB	1	\$249.00
09135-87600	DISK DRIVE ST506 FIXED	1	\$1,973.00
370-0551	DISK DRIVE SUN SNM FIXED 141MB ESDI TOS MK156-FA 5 1/4" FH	1	\$600.00
661-0228	DISK FIXED APM APPLE 1GB SCSI	1	\$350.00
FUJ M2322K	DISK FIXED FUJ 230MB 8IN	1	\$600.00
ST39204LC	DISK HARD DRIVE SCSI 9GB 80PIN 80P 80 PIN SEAGATE	1	\$282.00
ST3550N	DISK HARD SCSI 400MB	1	\$629.00
92192A	DISK MEDIA FLOPPY 3.5" DS/DD DISKETTE 720KB FORMATTED	16	\$0.60
15705	DISK MEDIA FLOPPY 3.5" DS/HD DISKETTE 1.44MB FORMATTED	282	\$0.19
8694	DISK MEDIA FLOPPY 5.25" DS/DD DISKETTE 360KB FORMATTED	23	\$2.71
7428	DISK MEDIA FLOPPY 5.25" DS/HD DISKETTE 1.2MB FORMATTED ORDER QTY.= BOX 10/BOX ISSUED EACH FRO	19	\$0.74
9000E-3.5	DISK MEDIA HARD PLATTERS PLATED 3.5"	8	\$15.00
4473	DISK SCRATCH CDC 9780 T306 300MEG BK7A1A BK7XXX	1	\$10.00
SNM MS514	DISK SPARE LOANER SNM +TAPE SCSI SHOEBOX EMUL MD21 ESDI SUN 2-5964 1/4 INCH	1	\$2,445.00
IDE-DISK	DISK UDMA IDE 20GB	2	\$76.46
003-0003	DISKETTE 3.5" SHIPPING FIXTURE FOR FLOPPY DRIVES PACKING DISKETTE	8	\$1.00
3201-6100	DISKETTE MICRO SS/DD 3.5" DELETE AT ZERO BALANCE	6	\$3.00
119-1593-00	DISPLAY	1	\$900.00
HDSP-7511	DISPLAY 7 SEGMENT MFG HP.	2	\$3.26
1990-0531	DISPLAY 0-9	1	\$8.75
SP351	DISPLAY 1 DIGIT	2	\$60.00
SP352	DISPLAY 2 DIGIT	26	\$33.00
SP353	DISPLAY 3 DIGIT	25	\$46.00
HDSP-8732	DISPLAY ASSY	1	\$275.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
P000172580(EX)	DISPLAY GAS PLASMA TOS TOSHIBA T6400DX T6400 GAS DISPLAY INOP - ELECTRONICS OK	1	\$700.00
745-0007	DISPLAY HEXADELIMAL DIALCO 25F903 HEX DISPLAY	2	\$35.00
670-3293-02	DISPLAY INTER CONN TEK	1	\$23.00
661-0647	DISPLAY LCD BACKLIT APM MACP APPLE	1	\$489.00
313578-091	DISPLAY MODULE 2.7 REFLECTIVE DISK	1	\$105.00
78-DSP-HH	DISPLAY REMOTE 780B DSP	1	\$1,700.00
DA2010	DISPLAY TUBE 0-9	12	\$35.95
680843	DISPLAY VACUUM FLUORESCENT	3	\$43.84
1W633	DISPOSABLE TRIM-TO-FIT AIR FILTERS 1W633	6	\$1.27
971-0028	DISTRIBUTION BOARD PAPER CONTROL PCB	3	\$33.60
SD5401CY	DMOS QUAD ANALOG SWITCH	6	\$6.15
2113	DOCUMENT PROTECTOR	190	\$0.26
200-2881-00	DOOR ACCESS TOP 4692 TEK	1	\$20.00
37923201	DOOR ASSEMBLY WITH SWITCH MEMBRANE	1	\$285.00
970-1142	DOOR CASSETTE APM LASER+	1	\$9.00
961507-001	DOOR LOCK ASSY CIPHER M990	1	\$95.00
RF1-0985-00	DOOR LOWER REAR HPC LASERJET2	1	\$31.00
401227101-3	DOOR OPEN ASSY	1	\$320.00
7083	DOOR STRIKE 24VDC BY HANCHETT ENTRY SYSTEMS INC.	2	\$168.75
43-09	DOOR STRIKE FAIL SECURE 24V .11A	2	\$150.00
650-2577-00	DOT CLOCK ENCODER KIT	1	\$55.00
242464-001	DPC SPROCKET BEARING MOUNT KIT (CLUTCH SIDE)	2	\$1.36
29-23407-00	DR ASSY RIBBON DEC LP-25	1	\$56.00
09845-66542	DRAWER LPU ROM	1	\$5.00
82936A	DRAWER ROM HPC HPC 85	1	\$40.00
09845-66544	DRAWER ROM PPU	1	\$5.00
4920E	DRILL 3/8" JCPENNEY	1	\$25.00
20391140	DRIVE BELT	4	\$5.52
NONE	DRIVE BELT (OLDSTYLE) FOR DB100 REFLECTOMETER	1	\$25.00
54-700-239	DRIVE BELT RUSKA AIR PISTON GFE 5047	20	\$2.94
661-0222	DRIVE CD-ROM CDROM TRAY LOADING APM CD APPLE Q800 8100 7100	1	\$229.00
104405-001	DRIVE COMPAQ IDE HARD DRIVE 100MB REMANUFACTURED FOR COMPAQ ONLY	1	\$25.00
RD54	DRIVE DISK 5.25" WINCHESTER 159MB DEC	1	\$1,750.00
X559 0040-C.1.3	DRIVE DISK CDSFROM CDROM CD-ROM SUN SNM	1	\$698.00
661-0121	DRIVE DISK FLOPPY APPLE SUPERDRIVE MANUAL APM 1.44MB 7100 8100 INSERT POWERMAC	1	\$138.60
DK815	DRIVE DISK SUN 892MB HITACHI DK815 OPTION 646 W/DATA CABLES	1	\$7,480.00
360K-5.25IN	DRIVE FLOPPY DISK 360K 5.25" H/H LOW DENSITY	18	\$30.00
4869001	DRIVE FLOPPY EXTERNAL 5.25" IBM PS/2	1	\$295.00
555-1004	DRIVE HARD DISK 91MB FIXED	1	\$1,100.00
10 MB	DRIVE HARD FULL HEIGHT 10MB 5.25" EXTERNAL WITH POWER SUPPLY	1	\$589.00
42012G1	DRIVE PAPERFEED STEP	1	\$375.00
41-3058	DRIVE PIN 8915A OIL PUMP	3	\$5.17
09845-66561	DRIVE STANDARD CARTRIDGE LOGIC CONTROLLER PCB 9845	1	\$31.00
100MB ZIP	DRIVE ZIP 100MB IOMEGA INTERNAL	1	\$90.00
1039540	D-ROLLER TIRE	1	\$8.28
655-3852-01	DRUM ASSY 4692 TEK	1	\$680.00
RG1-1777	DRUM DRIVE ASSY HPC	1	\$17.95
6R1006	DRY INK CARTRIDGE (FOR 460DC XEROX COPIER)	5	\$30.00
2516	DRY MOLY LUBRICANT LPS	2	\$9.83
06F4286	DS1230Y-150 SRAM	1	\$24.59
5.811.019	DUAL MOSFET 3N165	2	\$25.00
DST-P	DUAL PROXIMITY SMART TERMINAL INTERFACE	1	\$995.00
45189	DUAL TRANSISTOR MP-311	2	\$15.87
135-739-331-A	EJECT ROLLER I BOTTON OF EJECT ASSY	2	\$14.48
135-739-332-A	EJECT ROLLER II TOP OF EJECT ASSY	1	\$11.99
135-034181-001-A	EJECT UNIT (FOR NEC LC890 PRINTER)	5	\$128.18
701-00-147	ELASTIC ELEMENT	3	\$14.19
119-0181-00	ELEC SURGE	1	\$2.00
1417Q	ELEMENT FILTER SMALL EXHAUST FILTER WELCH 2-1/4" DIAMETER	6	\$68.40
0491-P1760-301	ELEMENT FILTER VARIAN VACUUM PUMP 1-1/4" DIAMETER FOAM	3	\$31.00
SNM MS660	ENCLOSURE SHOEBOX FOR TAPE DRIVE OR DISK UNIT	1	\$1,200.00
WYLE7	ENCODER DATEX	1	\$50.00
13-500A-41	ENCODER DATEX	3	\$100.00
70-09777-00	ENCODER DEC	1	\$44.10
PC62D-256-5	ENCODER OPTICAL SHAFT	1	\$60.00
275-1-0226	ENCODER/CUTTER CLUTCH ASSY	1	\$20.00
24501001	END CAP	23	\$0.17
SW282-ND	END CAPS FOR OMRON #A7D-2	2	\$0.69
07595-60226	ENGAGEMENT LEVER	2	\$6.25
9105	ENVELOPE BROWN CLASP 11 1/2" X 14 1/2"	255	\$0.20
9097	ENVELOPE BROWN CLASP 10" X 13"	73	\$0.08

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
9090	ENVELOPE BROWN CLASP 9" X 12"	92	\$0.08
6970	ENVELOPE PLAIN WHITE SIZE 10 4-1/8" X 9-1/2" 500/BX. ISSUED EACH FROM STOCK	956	\$0.01
8040-264-6816	EPOXY 5 MINUTE EPOXY DEVCON NO.14210	2	\$3.15
160-0971-08	EPROM U150	1	\$100.00
160-0975-08	EPROM U160	1	\$100.00
160-0977-09	EPROM U170	1	\$100.00
160-0979-08	EPROM U180	1	\$100.00
160-0970-08	EPROM U250	1	\$100.00
160-0974-08	EPROM U260	1	\$100.00
160-0976-08	EPROM U270	1	\$100.00
160-0978-00	EPROM U280	1	\$100.00
160-0971-07	EPROM U150	4	\$100.00
160-0975-07	EPROM U160	4	\$100.00
160-0977-08	EPROM U170	4	\$100.00
160-0979-07	EPROM U180	4	\$100.00
160-4044-00	EPROM U210	6	\$150.00
160-4045-00	EPROM U220	6	\$150.00
160-0970-07	EPROM U250	4	\$100.00
160-0974-07	EPROM U260	4	\$100.00
160-0976-07	EPROM U270	4	\$100.00
160-0978-07	EPROM U280	4	\$100.00
160-1844-06	EPROM U560	4	\$105.00
160-1843-06	EPROM U570	4	\$105.00
180001-61	EPROM(2764-25)TV970	4	\$15.00
135-034180-A	ERASE UNIT ASSEMBLY	2	\$39.47
8641	ERASER MECHANICAL PENCIL	5	\$0.04
5352	ERASER PENCIL HEAD	12	\$0.08
8788	ERASER RUBBER BLOCK TYPE 2" X 1" X 3/4"	9	\$0.41
6503	ERASER RUBBER PENCIL TYPE W/BRUSH	5	\$0.73
6213	ERASER WHITEBOARD USE FOR ERASE DRY MARKERS	2	\$2.55
SX-530	EXERCISER CDS T306 STORAGE MODULE DISK	1	\$240.00
5 1/4 IN.	EXERCISER DISK 5.25"	1	\$75.00
41-3327	EXHAUST VANE WELCH 8814A VACUUM PUMP	2	\$27.14
53534427	EXIT ROLLER ENTER	1	\$1.50
53534428	EXIT ROLLER LARGE	2	\$1.75
53534468	EXIT ROLLER RIGHT/LEFT	2	\$1.75
996774-2	EXT	6	\$2.00
3690-12	EXT 1 100	1	\$35.00
90022998	EXT 1 110 NEFF NEF 620600 600	1	\$240.00
5060-0050	EXT 1 12	2	\$10.00
516-100486-001	EXT 1 160	1	\$500.00
03490-66504	EXT 1 18	1	\$75.00
22084-1	EXT 1 20 1 30	3	\$50.00
22084-3	EXT 1 20 1 50 620300	1	\$50.00
03497-67913	EXT 1 25	1	\$190.00
516-100485-001	EXT 1 270	1	\$125.00
5060-2039	EXT 1 30	1	\$10.00
B-22241	EXT 1 30	1	\$10.00
22084-2	EXT 1 30 1 36	4	\$50.00
C022185	EXT 1 34	1	\$10.00
M953B	EXT 1 36	1	\$30.00
670-1739-00	EXT 1 36	3	\$70.00
W984A	EXT 1 36	2	\$75.00
03495-66507REVA	EXT 1 44	5	\$10.00
067-1005-00	EXT 1 44 1 80	1	\$300.00
5060-7901	EXT 1 48	2	\$100.00
5060-5984	EXT 1 50	1	\$145.00
067-0813-00	EXT 1 80	1	\$6.00
516-100039-001	EXT 1 80	2	\$10.00
C22106A	EXT 1 88	2	\$50.00
90023106A	EXT 2 15 NEF 620600 PRZAMP	1	\$240.00
W987A-2	EXT 2 36	1	\$50.00
882-6-02-235	EXT 2 36	3	\$75.00
42018	EXT 2 56	1	\$10.00
W987A	EXT 4 36	3	\$100.00
4865001	EXT DISK DR 3.5I	1	\$237.00
4865002	EXT DISK DR 3.5I	1	\$237.00
90022615	EXT SERIES 500 NEFF 500	1	\$465.00
6323445	EXTENDER CARD IBM PC	1	\$136.00
90023235	EXTENDER NEFF 730 FUNCTION CARDS	1	\$300.00
02250-40002	EXTRACTOR CARD HP2250	6	\$4.80

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
821591-1	EXTRACTOR IC 44	1	\$31.00
821648-1	EXTRACTOR IC 52	1	\$31.00
821590-1	EXTRACTOR IC 84	1	\$31.00
PGA-3-15	EXTRACTOR IC PIN GRID ARRAY PGA 15X15	1	\$129.95
923498-64-I	EXTRACTOR IC SOCKET 64P	1	\$5.00
PLCC	EXTRACTOR PLCC IC 290N UNIVERSAL EXTRACTOR	2	\$30.00
7200-1686	EXTRU ALUMINUM	1	\$11.00
808-871313-100A	FACE UP TRAY	1	\$30.00
961166-001	FACIA TOUCH	1	\$35.50
90F8919	FAN 12VDC 3.13 INCH H X 3.13 INCH W X 1.0 INCH D 80CM X 2.5CM .12A 27CFM	2	\$11.90
599-0034	FAN 24 VDC 3.62" SQUARE X 1" DEEP (92MM X 25.4MM)	1	\$18.15
CG6MDH	FAN 3 PIN BALL BEARING FAN-92MM ANTEC	3	\$7.28
12-23395-01	FAN 5 IN. 12VDC DEC	2	\$40.00
09121-68511	FAN AXIAL	1	\$50.00
113 XN 21 82 000	FAN AXIAL 115 VAC 3.50 X 3.50 53 CFM ETRI CPU COOLING	3	\$37.00
57F1020	FAN DC TYPE 4124X	1	\$50.79
148VP-0282-030	FAN ETRI 2100 RPM 149 CFM 45.5 DB 115VAC 18WATT NEFF	2	\$78.85
148VK-0282-030	FAN ETRI 32W 115VAC 300/270MA NEFF HIGH VOLUME	3	\$78.85
KDE1204PKS2-8	FAN SUNON DC12V 0.9A 40MM X 20MM	2	\$6.20
46F5106	FAN 115VAC 91.44MM	2	\$12.59
1212581-02-D	FAN 115VAC 10.5CM W/BRACKET	1	\$25.00
3-90-8226	FAN 115VAC 10CM CABINET LA36	1	\$10.00
100482-001	FAN 115VAC 10CM CPQ COMPAQ PORTABLE	1	\$60.00
12-17715-02(EX)	FAN 115VAC 4 1/2	1	\$15.00
3160-0208	FAN 115VAC 4 1/4" X 4 1/4" BOXER WS2107FL-59 HP 264X	1	\$45.00
12-09403-02	FAN 115VAC 4.5" TUBE AXIAL	2	\$15.00
12-12581-00	FAN 115VAC 4.8CM LA120	1	\$28.00
4600XP	FAN 115VAC 50/60HZ 18-20W 12CM 4-3/4"W	4	\$29.90
46F5089	FAN 115VAC 80MM 8CM	2	\$15.00
8500DP	FAN 115VAC 80MM BLOWER 3 3IN 3" IN PAMOTOR	0	\$21.90
C90L-1370-0900	FAN 115VDC 19C BLOWER LINE	1	\$153.00
29-23384-00	FAN 120VAC 9.5CM W/BRACKET	1	\$81.00
HDF5216L-12MB-1	FAN 12VDC 1-11/16" X 11/16" X 5/8"	1	\$25.00
076-0311	FAN 12VDC 5CM UPGRADE APM SE	1	\$2.70
50F5388	FAN 12VDC 6CM MODEL 2410NL-04W-B30 BOXER MBI CSC100	1	\$11.50
44F6426	FAN 12VDC 8CM PC .28A 3.4W MODEL ST12A3	2	\$18.64
81235101	FAN 24VDC 10CM W/ SPEED SENSOR	1	\$87.00
G0005579	FAN 24VDC 200MX SCM LN03+ 4081	3	\$81.00
965-0275	FAN 24VDC 6 CM 0.06A	2	\$20.50
09816-67010	FAN 24VDC 7.2CM BLOWER HP9816	2	\$84.00
12-12581-02	FAN 35CFM DEC LA36	2	\$32.00
540-1572	FAN 4.5" X 1" 12VDC BOXER 71CFM SNM 3/160	4	\$12.96
12-17556-01	FAN 4.5IN 12VDC MD12B2 DEC RA	3	\$38.40
KDE0504PFB2-8	FAN 5V 40X10MM 6.2CFM .6W	1	\$13.73
P0040-12D-3B	FAN ASSEMBLY 12VDC 9.2C SUN	0	\$17.90
90022916E	FAN ASSEMBLY BLOWER NEFF	1	\$680.00
105376-901	FAN ASSY 120V 16CM RIBBON DECK	1	\$26.00
540-1557(UT)	FAN ASSY SUN	1	\$230.00
076-8130	FAN BEARING BUSHING APM LASER2 SHORT BUSHING	7	\$0.80
12-13185-03	FAN COOLANT DEC PC350	2	\$20.00
12-13013-00	FAN COOLING 5IN DEC TS11	1	\$75.00
FAN9121(EX)	FAN COOLING HPC 9121	1	\$15.00
CPUFAN-90	FAN CPU COOLER PENTIUM I 12V 1.4W SOCKET 7/370	2	\$8.00
4606X(EX)	FAN HPC 4-3/4 X 5 X 1-1/2 IN. 115V 20W 50/60HZ	3	\$95.00
959-0021	FAN LOWER FAN ASSEMBLY LASER2 APM	2	\$14.95
MU2A1	FAN MUFFIN FAN 50/60 HZ 115VAC 14W 4.5" X 1.5" 4.5INCH X 1.5INCH 4-1/2" X 1-1/2"	2	\$25.30
4650X	FAN PAMOTOR 230V 4-5/8" 12CM	2	\$29.51
7606	FAN PAPST 115-50/60HZ HARD WIRED 235CFM (60DB)	2	\$51.00
982-0023	FAN POWER SUPPLY MAC2CX APM APPLE	2	\$25.00
67660	FAN PROCESSOR 486 12VDC 1.25IN 1.25" COOLING FAN FAN ONLY FOR CPU	1	\$4.95
WS2107F-110	FAN SUPER BOXER IMC	1	\$13.75
3160-0266	FAN TUBAXIAL HP3455A 12VDC	1	\$115.00
12-10719-03	FAN TUBE AXIAL 3IN DEC RA81	1	\$93.00
3160-0350	FAN TUBEAXIAL HP7906 115VAC 3 1/4" X 3 1/4"	2	\$62.50
959-0022	FAN UPPER UPPER FAN ASSEMBLY 24VDC APM LASER2 HPC 33449 33449A	3	\$14.95
76430	FAN/COUNTER ASSEMBLY	1	\$20.00
801733-002	FASTENER TWIST	2	\$1.00
FC206	FDC/XT/AT CONTROLLER	1	\$18.00
FEDRON-CAN	FEDRON RUBBER RECONDITIONER ISSUE 1 OZ. 128 OZ.= 1 GALLON	151	\$0.19
118-8600-00	FEED MOTOR TEK 4694	1	\$125.00
40802	FEELER GAUGE 26 BLADE 45 DEGREE OFFSET STANDARD (.005-.030 IN.) METRIC (.13-.76 MM.)	1	\$20.00



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
320-019	FEET	6	\$2.17
217-2061	FEET RECESSED BUMPERS/FEET	86	\$0.14
0403-0427	FEET RUBBER BUMPER FOOT ADHESIVE	8	\$0.20
970-1004	FELT CLEANING FUSER APM HPC 2686	3	\$9.95
970-0049	FELT CLEANING FUSER ROLLER LASER2 33440 33449	20	\$2.95
31N2877	FEMALE SOLDERLESS TERMINAL TYPE CFS-TV-1818 PACKAGE OF 100	70	\$0.25
15022	FERRULE BRASS CLIPPARD	11	\$0.10
NY400-SET	FERRULE 1/4 IN. 2 PIECE FERRULE SET	20	\$0.53
NY200-SET	FERRULE 1/8 IN. NYLON 2 PIECE FERRULE SET	68	\$0.57
SS-404-1	FERRULE BACK FRONT BACK & FRONT	6	\$1.38
SS-403-1	FERRULE FRONT	5	\$0.65
B-400-SET	FERRULE SET BRASS	30	\$0.50
3-21673	FET DUAL N CHANNEL	1	\$5.10
ECT158	FET N-CHANNEL BUZ50C MTP1N100	1	\$22.00
IRF620	FET DRIVER 200V 5A	1	\$1.41
151-1042-00	FET MATCHED PAIR	2	\$7.00
153-0559-00	FET MATCHED SET OF FET'S	3	\$49.00
2SK955	FET MOSFET 150W 8A N CHANNEL CASE TO-3PJ	1	\$15.25
3-22701	FET N CH F2701	8	\$2.25
2N5458	FET N CHANNEL	3	\$1.60
IRFD110	FET N-CHANNEL 4 PIN 100V 1A	3	\$0.79
XR 13 2643-912	FIBER PEN LONG RED 1 PAK=6PENS	5	\$4.17
XR 12/4 2643-908	FIBER PEN SHORT BLACK 1 PAK=6 PENS	5	\$4.17
XR 12/2 2643-911	FIBER PEN SHORT BLUE 1 PAK=6 PENS	6	\$4.17
XR 12/3 2643-910	FIBER PEN SHORT GREEN 1 PAK=6 PENS	6	\$4.17
VB1037	FIELD EFFECT TRANSISTOR MFG BY BRUEL & KJAER	1	\$66.00
343103	FIELD EFFECT TRANSISTOR MFG.BY J. FLUKE	1	\$5.00
SS-4F-K4-15	FILTER	6	\$3.30
15 1/2 X 19 X 1	FILTER	21	\$1.00
6EF1F	FILTER LINE	1	\$6.00
MODCOMP4	FILTER 13X153/4X1/2	28	\$1.20
MODCOMP5	FILTER 153/8"X20"X3/8"	9	\$1.14
MODCOMP3	FILTER 4-3/4 X 16-5/8 X 1/2	9	\$1.25
6549	FILTER ABSOLUTE CDC DISK DRIVES	10	\$30.00
72868200	FILTER ABSOLUTE CDC PA3A1A DRIVE	5	\$40.00
70-17742-01	FILTER ABSOLUTE DEQ RA60	6	\$50.00
07930-80238	FILTER ABSOLUTE FILTER HP/7933/7935	1	\$92.50
FN322-6/01(EX)	FILTER AC LINE FILTER	1	\$10.00
16770705-003	FILTER AIR	5	\$5.25
890L-0400-0303A	FILTER AIR	2	\$2.00
3150-0316	FILTER AIR HP7925 DISK DRIVE	9	\$11.00
961514-001	FILTER AIR M990 TAPE DR	4	\$22.25
MODCOMP2	FILTER AIR MODCOMP 6.75X17.25X.5	33	\$1.50
24-580	FILTER AIR PISTON FILTERS RUSKA	10	\$1.50
TCI-AQ5	FILTER ASSY/POW SW	2	\$100.00
8L005	FILTER COAT RESEARCH PROD	4	\$3.11
4102	FILTER ELEMENT MUFFLER	9	\$3.00
9843	FILTER ELEMENT WATER AP110	2	\$2.06
3-200-16-371H	FILTER ELEMENT WELCH VACUUM PUMP 2-1/2" DIAMETER FOAM	4	\$41.66
RM03-1	FILTER FOAM U-TRIM 15X24X1/4 NO BACKING	3	\$0.80
3150-0329	FILTER HP7906H	4	\$12.00
3150-0400	FILTER HPC 7933/7935	1	\$18.00
590-4516	FILTER INTERNAL SCSI MAC2FX APM	3	\$19.80
119-1816-00	FILTER LINE 4692 TEK	1	\$31.00
102505-001	FILTER LINE RFI	1	\$26.00
9135-0146	FILTER LINE W/FAN ASSEMBLY	1	\$25.00
660-100002-001	FILTER MODCOMP	1	\$124.00
43094-1	FILTER MODULE 1 HZ NEFF	2	\$10.00
43094-10	FILTER MODULE 10 HZ NEFF	2	\$10.00
RF1-2133	FILTER MOUNT HPC	2	\$7.95
1309-0018-P10	FILTER PACE SOLDER-X-TRACTOR	4	\$3.75
19-3/4X6-3/4X3/8	FILTER POLY THROW AWAY WITH SCRIM	11	\$1.25
7X17X3/8	FILTER POLY THROWAWAY WITH SCRIM	5	\$1.28
19-3/4X8-1/4X3/8	FILTER POLY THROWAWAY WITH SCRIM	12	\$1.43
19-3/4X15-1/4X3/8	FILTER POLY THROWAWAY WITH SCRIM	24	\$1.78
AP15-20201	FILTER PRE-FILTER 20X20X1 FOR GFE 0669 AH 142 FILTER HOOD	6	\$3.00
599X995	FILTER TYPE 1 .3 MICRON WEAVE TONER VACUUM	1	\$25.00
1309-0028	FILTER VACUUM PACE VISI-FILTER	2	\$11.00
C-032	FILTER/DRYER FILTER DRYER	2	\$7.30
4958K91	FILTER/REGULATOR REPLACEMENT ELEMENT	1	\$2.05
4B1781	FINISHER ASSEMBLY XL7700 KODK	1	\$1,605.33

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
268P-1/4X1/4	FITTING POLYFLO MALE 1/4X1/4	5	\$2.20
EGF0058B	FLASH TUBE FT1	1	\$15.00
10373	FLOPPY DISK TAPE DRIVE	1	\$25.00
RX50-AA	FLOPPY DRIVE DEQ	1	\$167.00
5108-0170	FLOW SENSOR	1	\$260.00
220-0011-00	FLUFF SOLEN BARL.NUT	1	\$2.00
214-3601-00	FLUFF SOLENOID DAMP.	1	\$1.00
655-3850-01	FLUFFER ASSEMBLY TEK 4692	1	\$155.00
105014-003	FLY WHEEL ASSY	1	\$100.00
FCO-1412E03	FLYBACK TRANSFORMER DELL VC-2	2	\$32.99
70-17363-00	FLYBACK CHOKE FLYBACK DEC VT-100	3	\$50.40
TF23V501L0	FLYBACK TRANSFORMER	1	\$88.27
60-101	FLYBACK TRANSFORMER 19" SNM MONITOR	5	\$99.00
CP105	FOAM 1/4" STATIC FOAM CP105 STATFREE CONDUCTIVE FOAM HIGH DENSITY CATALOG PAGE 144	4	\$3.53
2029	FOLDER FILE HANGING LETTER SIZE	77	\$0.35
3768S	FOLDER FILE GUSSETT LETTER SIZE MANILA 1"	103	\$0.56
4446S	FOLDER FILE LETTER SIZE MANILA ASSORTED TABS	240	\$0.05
4152X2	FOLDER HANGING FOLDERS BOX BOTTOM	22	\$0.79
348-1110-02	FOOT CABINET	4	\$1.50
348-0425-00	FOOT CABINET BLACK W/CORD WRAP	3	\$1.25
922-0040	FOOT FEET RUBBER PLATINUM APM APPLE 7100	4	\$0.05
50000431	FOOT IOMG SUPPORT	3	\$1.00
46046G1	FOOT PRESSURE ASSEMBLY	1	\$9.00
801656-001	FOOT RUBBER	2	\$1.00
FORM165	FORM WORK ORDER FORMS CONTINUOUS FEED	6	\$75.00
C2002-67901	FORMATTER PCA 2001 LASER4	1	\$659.00
805-0952	FRAME DISK DRIVE CARRIER HDA 3.5 SCSI INT LOW SIDE MOUNTING HOLES 1" HEIGHT SHIPPING	2	\$8.10
805-5051	FRAME 40/80MB SCSI HDA INTERNAL SHIPPING FIXTURE	2	\$6.00
551-100613-001(UT)	FRAME EXTENDER 32/87 EXTENDER FRAME	1	\$150.00
551-100456-001(UT)	FRAME EXTENDER CLASSIC EXTENDER FRAME	2	\$175.00
805-5051	FRAME HDA MAC II	2	\$7.50
949 0148	FRONT COVER ASSEMBLY LASER2	1	\$10.00
29-24283-00(EX)	FRONT PANEL ASSY DEQ LA50 PRINTER	1	\$45.00
54-15272-01	FRONT PANEL DEC RA60	1	\$331.00
FUJ975802	FUJI MEDIA DLT IV 40/80GB TAPE CARTRIDGE	18	\$56.00
5761-73001	FUSE 1 AMP. FAST-ACTING SUBMINIATURE PLUG-IN LITTLEFUSE # 273 001.	3	\$2.15
255.062	FUSE 1/16A AXIAL LD	4	\$1.20
VF 0026	FUSE 100 MAT	4	\$15.00
AGS20 32V	FUSE 20 AMP 32 VOLT	4	\$1.14
218.315	FUSE 315MA 5MMX20MM SLOW-BLOW	6	\$0.96
AGU40	FUSE 32V 40AMP BUSS AGU-40	9	\$1.25
217004	FUSE 4A 125V FASTBLO FB MINIATURE	2	\$0.65
46F073	FUSE 5A 250V 5X20MM METRIC	0	\$0.77
5765-18631	FUSE 6.3A 250V 5MMX20MM SLOWBLOW	5	\$0.67
20F626 TYPE318006	FUSE 6A 250V AXIAL LEADS	2	\$0.88
94F2226	FUSE FAST GLH7 125V	5	\$2.88
500VFA1A6X32	FUSE FERRAZ 500V 1A	11	\$3.92
28F205	FUSE KTK10 10AMP CAT# 114 PAGE 746	2	\$7.37
77-2027	FUSE SONY 1.25 A 125V PICO AXIAL	3	\$2.99
27301.5	FUSE SUBMINIATURE MICRO 1.5A TYPE 273 SNM 690MP S690MP	5	\$2.42
T2A 250V	FUSE (F2) USED ON THE A5 & A6 AMP BOARDS 2A	1	\$1.00
.125A	FUSE .125A 250V FASTBLOW FB	10	\$1.15
.15A	FUSE .15A 250V FASTBLOW FB	6	\$1.44
.15APT	FUSE .15A 250V FASTBLOW FB PIGTAIL PT	19	\$1.40
218.63	FUSE .6A 630MA 250V METRIC 5X20MM SL OWBLOW	4	\$0.77
0.16A	FUSE 0.16A 1.2KV	8	\$1.50
1 1/2A 125V	FUSE 1 1/2A 250V SLOWBLOW SB 1.5A	3	\$0.74
1 1/4A	FUSE 1 1/4A 250V SLOWBLOW SB 1.25A	9	\$0.97
1 6/10A	FUSE 1 6/10A 250V SLOWBLOW SB 1.6A	10	\$0.45
1.5A 125V FB SHORT	FUSE 1.5A 125V FASTBLOW FB SHORT 8AG	8	\$0.77
1.5A 250V FB	FUSE 1.5A 250V FASTBLOW FB	4	\$0.51
1.5A 250V FB PT	FUSE 1.5A 250V FASTBLOW FB PIGTAIL PT	9	\$0.63
1.6A	FUSE 1.6A 125V FB PIGTAIL	3	\$1.20
1/100A	FUSE 1/100A 125V SLOWBLOW SB 0.01A	28	\$2.22
1/100A 250V	FUSE 1/100A 250V SLOWBLOW SB 0.01A	8	\$2.22
27F601	FUSE 1/100A FB FASTBLOW 0.01A	2	\$5.56
1/100A GFA	FUSE 1/100A GFA AXIAL LEADS	11	\$2.00
1/10A 125V	FUSE 1/10A 125V RADIAL LEADS 1" LONG LEADS SUBMINIATURE MICROFUSE	1	\$3.57
1/10A 125V SB	FUSE 1/10A 125V SLOWBLOW SB 0.1A	7	\$1.75
.1A	FUSE 1/10A 250V FASTBLOW FB 0.1A	16	\$1.19
1/10A GMW	FUSE 1/10A GMW BUSS PLUG-IN	10	\$2.66

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1/16A 125V	FUSE 1/16A 125V 0.0625A PLUG-IN SUBMINIATURE	7	\$1.75
1/16A 125V SB	FUSE 1/16A 125V SLOWBLOW SB 0.0625A	11	\$1.75
.0625A	FUSE 1/16A 250V FASTBLOW FB 0.0625A	2	\$1.19
.0625AS	FUSE 1/16A 250V FASTBLOW FB SHORT 8AG 0.0625A	8	\$1.19
1/16A	FUSE 1/16A 250V SLOWBLOW SB 0.0625A	10	\$1.44
1/200A	FUSE 1/200A 250V SLOWBLOW SB 0.005A	8	\$7.00
1/2A 125V LF	FUSE 1/2A 125V LINE FUSE PLUG-IN SUBMINIATURE MICROFUSE 27301.5	4	\$2.35
1/2A 125V	FUSE 1/2A 125V SLOWBLOW SB PIGTAIL PT 0.5A	7	\$1.72
1/2A 250V	FUSE 1/2A 250V FASTBLOW FB 4AG 0.5A	4	\$0.38
.5AS	FUSE 1/2A 250V FASTBLOW FB SHORT 8AG 0.5A	6	\$0.40
.5A	FUSE 1/2A 250V FB 0.5A FASTBLO	6	\$0.12
1/2A	FUSE 1/2A 250V SLOWBLOW SB 0.5A 3AG	2	\$0.51
1/32 250V	FUSE 1/32 250V FASTBLOW FB SHORT 8AG 0.3125A	3	\$4.59
1/32A 250V FB	FUSE 1/32A 0.3125A 250V FB FASTBLO 3AG	10	\$2.22
.0312A	FUSE 1/32A 250V FASTBLOW FB 0.3125A	7	\$3.89
1/32A	FUSE 1/32A 250V SLOWBLOW SB 0.3125A	7	\$2.22
1/32A GMW	FUSE 1/32A PLUG-IN GMW BUSS	21	\$6.48
1/4A 125V	FUSE 1/4A 125V LINE FUSE PLUG-IN SUBMINIATURE MICROFUSE	6	\$3.65
1/4APT	FUSE 1/4A 250V SB SLOWBLO PIGTAIL LONG	2	\$3.68
1/4A	FUSE 1/4A 250V SLOWBLOW SB 0.25A	4	\$0.95
1/500A	FUSE 1/500A 250V SLOWBLOW SB 0.002A	7	\$3.00
1/8A125V	FUSE 1/8A 125V PICO	4	\$1.35
1/8A 125V	FUSE 1/8A 125V SLOWBLOW SB 0.125A	7	\$1.75
.125AS	FUSE 1/8A 250V FASTBLOW FB SHORT 8AG 0.125A	9	\$1.15
1/8A 250V	FUSE 1/8A 250V SLOWBLOW SB 0.125A	4	\$1.44
2110-0077	FUSE 1/8A HP 0.125A	3	\$1.70
10A 250V CERAMIC F	FUSE 10A 250V CERAMIC FASTBLOW FB LONG	8	\$0.66
10A 250V FB LONG	FUSE 10A 250V FASTBLOW FB LONG	6	\$0.51
10A 32V FB SHORT	FUSE 10A 32V FASTBLOW FB SHORT 8AG	6	\$2.98
GBB10	FUSE 10A 60V	10	\$3.00
12A 250V FB	FUSE 12A 250V FB CERAMIC	19	\$0.84
12A	FUSE 12A 250V SLOWBLOW SB	9	\$1.14
12A 32V SB	FUSE 12A 32V SLOWBLOW SB LONG	9	\$1.00
159-0049-00	FUSE 15/100A TEK 0.075A	7	\$0.95
15A 250V	FUSE 15A 250V	2	\$0.38
15A 250V FB CERAMI	FUSE 15A 250V FASTBLOW FB CERAMIC	12	\$0.96
15A	FUSE 15A 32V SLOWBLOW SB	12	\$1.64
871223	FUSE 15A 600V KLK 15A FB FLUKE 77 87	4	\$6.98
GBB15	FUSE 15A 60V	21	\$2.83
15MA	FUSE 15MA 125V PLUG-IN SUBMINIATURE	3	\$1.00
T1AF1	FUSE 1A 250V 5X20MM FASTBLO FAST	5	\$0.77
1A 250V FB LONG	FUSE 1A 250V FASTBLOW FB LONG	5	\$0.51
1A 250V FB PT	FUSE 1A 250V FASTBLOW FB PIGTAIL PT	8	\$0.70
1A 250V FB SHORT	FUSE 1A 250V FASTBLOW FB SHORT 8AG	22	\$0.77
1A 250V	FUSE 1A 250V MINI 5X20MM METRIC	6	\$0.77
1A	FUSE 1A 250V SLOWBLOW SB LONG	5	\$0.60
1A PT	FUSE 1A 250V SLOWBLOW SB PIGTAIL PT	5	\$0.98
830828	FUSE 1A 600V BUSHMAN BB61	4	\$3.76
1A GFA	FUSE 1A GFA AXIAL LEADS	3	\$1.23
1A GMW	FUSE 1A GMW BUSS PLUG-IN	2	\$2.66
GFA1	FUSE 1A SUB-MINIATURE AXIAL LEADS	8	\$0.84
2 1/2A	FUSE 2 1/2A 250V SLOWBLOW SB 2.5A	10	\$0.63
2.5A 250V FB	FUSE 2.5A 250V FASTBLOW FB 2 1/2A	12	\$0.51
2.5A250V.FUSE	FUSE 2.5A 250V FB PIGTAIL STANDARD	3	\$0.63
.2A	FUSE 2/10A 250V FASTBLOW FB 0.2A	14	\$1.19
2/10A	FUSE 2/10A 250V SLOWBLOW SB 0.2A	14	\$1.75
200MA	FUSE 200MA 250V FB FASTBLO METRIC 5X20MM	1	\$1.33
20A 125V FB CERAMI	FUSE 20A 125V FASTBLOW FB CERAMIC	12	\$1.30
20A 250V FB	FUSE 20A 250V FASTBLOW FB	8	\$1.00
25A 125V FB CERAMI	FUSE 25A 125V FASTBLOW FB CERAMIC	9	\$0.91
25A 250V	FUSE 25A 250V	5	\$0.38
25A 32V FB	FUSE 25A 32V FASTBLOW FB	16	\$1.30
25A	FUSE 25A FUSETRON FNM-25	8	\$1.00
28F024	FUSE 25A TIME-DELAY MDA-25 CERAMIC	4	\$0.91
376582	FUSE 2A 250V FAST SHORT 8AG	4	\$0.50
2A 250V FB	FUSE 2A 250V FASTBLOW FB	10	\$0.40
2A 250VFB SHORT	FUSE 2A 250V FASTBLOW FB METRIC 5X20MM	4	\$1.25
2A 250V FB PT	FUSE 2A 250V FASTBLOW FB PIGTAIL PT	2	\$1.39
2A	FUSE 2A 250V SLOWBLOW SB	7	\$0.78
5101-346940	FUSE 2A 32V FLUKE	17	\$0.26
2183.15	FUSE 3.15A 250V 5X20MM	2	\$0.75

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
159-0026-00	FUSE 3.2 AMP SLOWBLOW 3.2A SB	4	\$0.85
3/10A 125V	FUSE 3/10A 125V LINE FUSE PLUG-IN SUBMINIATURE MICROFUSE	6	\$2.66
3/10A	FUSE 3/10A 250V SLOWBLOW SB 0.3A 3AG	3	\$0.78
.1875A	FUSE 3/16A 250V FASTBLOW FB 0.1875A	30	\$1.19
3/16A	FUSE 3/16A 250V SLOWBLOW SB 0.1875A	24	\$1.75
3/4ASB	FUSE 3/4A 0.75A SB SLOWBLO LONG	2	\$0.78
.75A 125V FB	FUSE 3/4A 125V FB SHORT 8AG 0.75A	11	\$1.50
.75A 250V FB	FUSE 3/4A 250V FASTBLOW FB 0.75A	7	\$0.30
.75A 250V FB SHORT	FUSE 3/4A 250V FASTBLOW FB SHORT 8AG 0.75A	9	\$1.10
3/4A	FUSE 3/4A 250V FASTBLOW FB SHORT 8AG 0.75A	26	\$1.15
3/8A 115V	FUSE 3/8A 115V MICROTRON 0.375A	4	\$1.20
.375A	FUSE 3/8A 250V FASTBLOW FB 0.375A	5	\$0.56
3/8A	FUSE 3/8A 250V SLOWBLOW SB 0.375A	6	\$0.78
30A 125V FB CERAMI	FUSE 30A 125V FASTBLOW FB CERAMIC	3	\$1.30
30A 32V FB	FUSE 30A 32V FASTBLOW FB	12	\$0.38
GBB30	FUSE 30A 60V	13	\$3.00
31MA	FUSE 31MA MINI	6	\$3.30
35A	FUSE 35A 32V 5AG	2	\$0.38
375MA	FUSE 375MA 250V SB SLOWBLO PIGTAIL	2	\$1.23
28F345	FUSE 3A 125V 13/32X1 1/2" TYPE FNA-3	3	\$6.95
3A 125V FB	FUSE 3A 125V FASTBLOW FB SHORT 8AG	10	\$0.30
3A 250V FB	FUSE 3A 250V FASTBLOW FB	13	\$0.51
3A	FUSE 3A 250V SLOWBLOW SB	7	\$0.78
475004	FUSE 3A 600V FAST	2	\$1.40
GDA400MA	FUSE 400MA 250V SUB-MINIATURE	6	\$0.77
88F5345	FUSE 440MA 1000V DMM44/100 DMM 44/100	2	\$6.29
218004	FUSE 4A 125V SB METRIC 5X20MM	4	\$0.67
4A 250V FB	FUSE 4A 250V FASTBLOW FB	9	\$0.40
4A	FUSE 4A 250V SLOWBLOW SB	13	\$0.78
500MA	FUSE 500MA 250V SB SLOWBLO METRIC 5X20MM	6	\$0.98
50MA	FUSE 50MA 250V MINI	5	\$1.17
F1172	FUSE 5A 125V FAST SURFACE MOUNT APM POWERBOOK PB170 PB180 APPL E	4	\$1.68
5A 125V	FUSE 5A 125V SLOWBLOW SB 5AG	19	\$1.64
315005	FUSE 5A 250V 3AG PIGTAIL	4	\$0.45
5A 250V FB	FUSE 5A 250V FASTBLOW FB	6	\$0.51
5A	FUSE 5A 250V SLOWBLOW SB	4	\$0.78
5A GMW	FUSE 5A GMW BUSS PLUG-IN	4	\$2.66
94F5915	FUSE 5MMX20MM TYPE 218.250 .250A	4	\$1.41
740-5142	FUSE 5X20MM 1.5AMP SLOW BLOW 1-1/2A	8	\$0.61
87F1601	FUSE 5X20MM GMC 3A 250V	12	\$1.02
6.25	FUSE 6 1/4A 250V SLOWBLOW SB 6.25A	6	\$0.78
94F2124	FUSE 6.3A	8	\$1.50
.6A 250V FB	FUSE 6/10A 250V FASTBLOW FB 0.6A	15	\$0.49
6/10A	FUSE 6/10A 250V SLOWBOW SB 0.6A	6	\$1.08
6/10A GMW	FUSE 6/10A GMW BUSS PLUG-IN	25	\$2.66
62MA	FUSE 62MA 125V PLUG-IN SUBMINIATURE	2	\$3.00
630MA	FUSE 630MA 250V FB FASTBLO PIGTAIL	11	\$1.10
46F078	FUSE 63MA 250V FAST METRIC	7	\$3.18
6A 125V FB SHORT	FUSE 6A 125V FASTBLOW FB SHORT 8AG	5	\$0.21
6A 250V FB LONG	FUSE 6A 250V FASTBLOW FB LONG	2	\$0.38
7 1/2A	FUSE 7 1/2A 32V SLOWBLOW SB 7.5A	10	\$1.05
7A	FUSE 7A 125V SLOWBLOW SB	10	\$0.72
37843	FUSE 8/10A 250V SLOWBLOW SB 0.8A	10	\$1.08
800MA	FUSE 800MA 250V FASTBLO FB METRIC 5X20MM	2	\$1.54
1-532-838-21	FUSE 800MA PICO GDM1950 GDM1952	2	\$1.93
51F3525	FUSE 80MA SB 5X20MM TYPE 218.08	1	\$2.26
8A 250V CERAMIC FB	FUSE 8A 250 CERAMIC FASTBLOW FB LONG	7	\$0.84
8A 250V FB LONG	FUSE 8A 250V FASTBLOW FB LONG	6	\$0.51
46N6579	FUSE 8A 300V	6	\$0.72
8A	FUSE 8A 32V SB.SLOWBLO SHORT 8AG	2	\$1.00
GDA-1.25A	FUSE FAST 1.25A 5X20MM METRIC	9	\$0.61
21602.5	FUSE FAST 2.5A 5X20MM 250V METRIC	9	\$0.77
KT K3	FUSE FAST 3A 1.5X.375I 600V	8	\$0.10
216004	FUSE FAST 4A 250V METRIC 5X20MM	3	\$0.65
314007	FUSE FAST-ACTING 7A 250V	2	\$0.92
94F2502	FUSE FERRULE 2A 600V FB TYPE BUSSMAN BBS-2	2	\$4.05
SLC-20	FUSE FERRULE TIME DELAY 20A 300V	4	\$2.42
46F069	FUSE GDA 2A 250V LF217002	7	\$0.60
HJM	FUSE HOLDER 1"	4	\$3.52
HKP	FUSE HOLDER 1-1/4"	3	\$2.21
37143487	FUSE HOLDER ASSEMBLY NEFF	1	\$30.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
348002	FUSE HOLDER CAP	7	\$1.00
C60L-0020-0001	FUSE INDICATING .5A CARTRIDGE	3	\$1.00
70-22783-02	FUSE JUMPER ASSY	10	\$10.00
KLK-8	FUSE KLK-8 8A FASTBLOW	1	\$5.44
845-4208	FUSE L25S KLB-80	2	\$29.80
46F064	FUSE METRIC 630MA FAST	4	\$0.77
5101-272088	FUSE MICRO 1/20A 125V FLUKE 0.05A	4	\$3.77
28F079	FUSE MICROFUSE 125V 2A VERY FAST ACTING FUSE 8400	4	\$1.41
255.25	FUSE PICO .25A 125V FAST ACTING AXIAL LEADS .025A	10	\$1.20
255.5	FUSE PICO .5A DEC RK07	11	\$1.47
255.75	FUSE PICO .75A 125V	6	\$0.94
25501.5	FUSE PICO 1.5A 125V	6	\$0.84
255010	FUSE PICO 10A 125V	7	\$1.20
255015	FUSE PICO 15A 32V	1	\$1.17
255001	FUSE PICO 1A	7	\$1.20
25502.5	FUSE PICO 2.5A 125V	3	\$0.90
255002	FUSE PICO 2A 125V	3	\$1.20
25503.5	FUSE PICO 3.5A 125V	5	\$1.20
28F130	FUSE PICO 3/8A 251.375 0.375A	10	\$0.90
255003	FUSE PICO 3A 255003	12	\$0.94
845-2013	FUSE PICO 4A TYPE 251004	4	\$1.20
255005	FUSE PICO 5A 125V	11	\$1.20
255007	FUSE PICO 7A 125V	5	\$1.05
28F081	FUSE PLUG-IN MICRO-MINIATURE 4A	4	\$2.14
21801.6	FUSE SLOW 1.6A 250V METRIC 5X20MM	4	\$0.64
218001	FUSE SLOW 1A 250V METRIC SLOWBLOW SB	16	\$0.98
239003	FUSE SLOW 239 SERIES 3A 5X20MM	7	\$0.80
218002	FUSE SLOW 2A METRIC	8	\$0.65
MDX5	FUSE SLOW 5A 125V 3AG	5	\$0.63
MDX61/4	FUSE SLOW 6.25A 125V 3AG	7	\$0.72
JS0016	FUSE SOCKET W/FUSE HOLDER	5	\$2.75
273002	FUSE SUBMINATURE MICRO 2A PLUG-IN SNM TYPE 273 4/60 4/65 SCSI 690MP 5690MP	9	\$1.97
53535171	FUSE TEMPERATURE ASSEMBLY DEQ LN03	2	\$14.75
SK900	FUSE THERMAL 152C	4	\$1.20
270-1320	FUSE THERMAL 240V 15A 141C AXIAL	5	\$1.29
CJE152	FUSE THERMAL 4300A JACEB 152 LN03	5	\$1.08
925-0009	FUSE THERMAL THERMOPROTECTOR FUSER APPLE APM HPC	7	\$9.87
46F105	FUSE TIME-LAG 1/8A 5X20MM	4	\$1.17
357001	FUSEBLOCK FUSE HOLDER 3AG FGS LC01	3	\$1.09
81F4185	FUSEHOLDER RT.ANGLE PNL MTG.	1	\$4.95
661-0857	FUSER APM APPLE NS20M LWP810 PRM15 LZR1560	1	\$186.30
661-0440	FUSER ASSEMBLY APM LASERWRITER 2 110V	4	\$463.00
29-25848-00	FUSER ASSEMBLY DEQ LN02 LN02+	1	\$472.00
RG5-0454-000CN	FUSER ASSEMBLY FIXING ASSEMBLY HPC 2001 APM LWPRO	2	\$159.00
33491-69012	FUSER ASSEMBLY HPC 33491A	2	\$359.00
53531521	FUSING DRIVE SHAFT DEQ LNO3R	2	\$1.50
53535326	FUSING HEATER 115V 600W BULB RIA LP4080 DEC LN03	2	\$30.77
2565255-0001	FUSING UNIT	1	\$61.00
29-25072-00	FUSING UNIT DEQ LNO3 RIA LP4080 FUSER ASSY	1	\$365.00
53534020	FUSING UNIT FUSER ASSY RIA LP4080 DEC LN03	1	\$365.00
G0004023	FUSING UNIT FUSER ASSY W/O HEATER BULB RIA LP4081 DEC LN03	1	\$221.75
135-033907-115-B	FUSING UNIT NIF FUSER	2	\$293.00
43115-1	GAIN MODULE NEFF	4	\$10.00
43095-100	GAIN MODULE NEFF	3	\$12.00
43095-50	GAIN MODULE NEFF	3	\$12.00
375C076VAA	GASKET TB-SEAT SIZE 8 10 OD X 5/8 ID	1	\$5.00
41-0643	GASKET VACUUM PUMP 8915A	3	\$0.88
192336-00	GAUGE PRESSURE	1	\$50.00
2005	GAUGE PRESSURE	1	\$75.00
P600-K	GAUGE SET HAMMER ALIGNMENT	1	\$450.00
006-6219-00	GAUGE TEST VACUUM MAGNEHELIC 0-50 INCHES OF WATER	1	\$50.00
1854-0354	GE PNP TRANSISTOR	2	\$8.75
12-1165600	GEAR	10	\$2.00
401-0403-01	GEAR	2	\$6.00
70-09694-00	GEAR	2	\$6.00
331-079-002	GEAR FUSER FEED	2	\$7.50
939-0042	GEAR 14 TOOTH FUSER ASSEMBLY	4	\$0.60
135-739934-A	GEAR 23	1	\$1.28
939-0034	GEAR 27T 18T FUSER ASSEMBLY	25	\$9.90
939-0032	GEAR 32T FUSER ASSY.	16	\$9.00
939-0035	GEAR APM 20T FUSER ASSEMBLY	4	\$1.95

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
939-0033	GEAR ARM ASSEMBLY FUSER IDLER	48	\$5.40
RG1-1833-000CN	GEAR ASSEMBLY FACE-UP GEAR	1	\$4.00
971-0013	GEAR DRIVE ASSY APM APPLE LASER2	4	\$21.83
53531526	GEAR FUSING DRIVE 1ST	2	\$1.90
9-222-0128	GEAR MOTOR	1	\$125.00
922-1276	GEAR Q MOTOR DRIVE LWP810 810 APM LASER LW PRO 810	1	\$15.30
F315052010	GEAR RIBBON DRIVE	1	\$1.00
F303014020	GEAR RIBBON DRIVE FX286	3	\$3.60
F303014020	GEAR RIBBON DRIVING	1	\$5.00
401-0403-00	GEAR SPROCKET	1	\$4.00
401-0266-02	GEAR SPROCKET 21TH 4631	2	\$10.00
401-0264-00	GEAR SPROCKET WHEEL TEK 4631	4	\$3.00
401-0422-01	GEAR SPUR 4631	1	\$25.00
401-0346-00	GEAR SPUR TEK4631	2	\$10.00
808RG5-0199-000	GEAR SUPPORT ASSEMBLY QMY	1	\$32.95
71215SN2VNOONOL1	GENERAL PURPOSE SOLENOID VALVE 110V AC	2	\$51.07
1820-2960	GENERATOR BAUD RATE	1	\$21.00
6543	GFE CD DRIVE PORTABLE COMPACT DISK DRIVE	1	\$240.00
6148	GFE CD DRIVE UNIT CDR600 NEC MULTISPIN 3X CD ROM READER	1	\$644.00
6637	GFE LADDER STEP 8 FOOT FIBERGLASS TYPE 1A OSHA APPROVED	1	\$126.38
6502	GFE MONITOR DEQ VRT19 COLOR LOANER	1	\$5,000.00
4688	GFE RADIOMETER 5351F LIGHT METER PHOTOMETER	1	N/A
6135-3	GFE SIMCHECK ADAPTER MACIFX ADAPTER INNOVENTIONS INN-8448-4	1	N/A
6618	GFE SOFTWARE WINDOWS 95 FULL VERSION INTERNET EXPLORE	1	\$180.00
1265-0003-P1	GLASS TUBE PACE	1	\$5.70
1269	GLOVES DISPOSABLE LATEX EXTRA LARGE	200	\$0.13
5005	GLOVES DISPOSABLE LATEX MEDIUM/LARGE	106	\$0.13
5004C	GLOVES DISPOSABLE LATEX SMALL	144	\$0.15
8324	GLOVES DISPOSABLE POLYVIINYL MEDIUM	300	\$4.05
8132	GLUE STICK UHU GLU-STIC U-26U-125	7	\$0.60
13-4615-41	GOULD THERMOCOUPLE AMPLIFIER	2	\$200.00
82940-60901(EX)	GP-TO INTERFACE	1	\$250.00
2-60002	GRATICLE	4	\$0.90
S77324-01	GREASE HIGH VACUUM GREASE DOW CORNING 976V 5.3 OZ	1	\$12.87
NYETACT502	GREASE SYNTHETIC CONTACT SEALANT 1 PINT CAN BLUE NYETACT 502M&G	2	\$20.00
800085-005	GROMMET	2	\$1.00
G402A	GROMMET I.D.3/16" PANEL HOLE SIZE 5/16" PANEL THICKNESS 1/16" WASHER RUBBER USE WITH AIR CAN N	3	\$0.18
5325-960-8868	GROMMET ID 19/64"	7	\$1.85
HN3G-34-1	GROMMET LATCH	10	\$3.10
5959-9335	GROUND LEAD 5 PER PACK	2	\$37.00
949 0132	GROUNDING BRACKET UPPER COVER ASSEMBLY	1	\$4.50
214-1590-00	GUIDE	4	\$1.00
RA1-3826-000CN	GUIDE CASSETTE RIGHT APM LASER2	2	\$1.05
02670-00051	GUIDE PRESSURE	2	\$8.00
970-1092	GUIDE FEED PAPER PLATE ASSY APM HPC	1	\$10.00
29-24226	GUIDE LOWER SPRING	1	\$17.00
4040-1784	GUIDE PAPER INDEX	1	\$2.00
53534098	GUIDE PLATE FUSING RAI LP4080 DEC LN03	1	\$3.50
135-437215001A	GUIDE RIGHT SLIDE GUIDE HOLDER PC CARTRIDGE	1	\$4.17
072-0268	GUIDE SERVICE APPLE APM MANUAL FIELD MACINTOSH	1	\$15.00
29-24218-00	GUIDE SPRING	1	\$17.00
971-0019	GUIDE TRANSFER ASSEMBLY REGISTRATION ASSEMBLY LASERWRITER II	5	\$59.00
136-763626A	HAMMER ALIGNMENT NEC	1	\$204.00
105075-904	HAMMER BANK COVER ASSY PIX P600	1	\$61.00
W105787-903	HAMMER COIL SUPPORT ASSY	1	\$70.00
257436-001	HAMMER DRIVE	1	\$11.00
43005G1	HAMMER MOD DPC CT1210 8 UP HAMMER	3	\$98.00
105059-901	HAMMER PHASE FIRE MESA	34	\$5.00
105059	HAMMER PHASE FIRE MESA 105059-901	3	\$15.60
101857	HANDLE	2	\$25.10
100025-001	HANDLE ASSY COMPAQ CPQ PLUS P286 COMPAQ	1	\$15.00
839-8351	HANDLE CARRYING MODEL 8351 TRYGON HR60-5B	1	\$14.58
ZP10448011	HANDLE FOR THE PRM-5 SURVEY METER	2	\$19.00
1119-00074	HANDLE PACE POWER CORD	2	\$50.00
07470-40024	HANDLE PINCHROLL	1	\$20.00
7770	HANDLE SOLDERING IRON WITH POWER CORD USES ELEMENT 33 WATT PART NO.1237 OR 45 WATT PART	5	\$15.16
6100	HANDLE UNGAR SOLDERING IRON	1	\$8.20
4.3-IDE	HARD DRIVE IDE 4.3GB	2	\$43.00
535-539-001	HARDWARE CONTROL PANEL	1	\$304.00
130620AB	HARDWARE MOUNTING CABLE	1	\$2.00
076-0556	HARDWARE SCREW KIT APM APPLE PB140 PB170	1	\$10.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
92396301	HDA ASSY CDC PA5A1A	1	\$1,900.00
58810-ST251	HEAD R/W SMALL STEPPER ST251 SEAGATE E-BLOCK	2	\$65.00
70-18491-01	HEAD & DISK ASSY	2	\$5,602.00
961960-001	HEAD ASSY CIPHER M990	2	\$877.50
70-18461-02	HEAD ASSY R/W	1	\$250.00
70-18461-01	HEAD ASSY R/W	2	\$250.00
70-18461-03	HEAD ASSY R/W	3	\$250.00
VFK27	HEAD CLEANING STICK UI=1 PKG.	2	\$11.75
75010100	HEAD DISK READ/WRITE CDC DEQ	12	\$30.00
655-3845-01	HEAD INK JET	2	\$660.00
119-1817-00	HEAD MAINTENANCE STATION ASSEMBLY	2	\$205.00
8529183	HEAD PRINT	1	\$58.00
70-19655-01	HEAD PRINT	1	\$220.00
70-09883-00	HEAD PRINT DEQ LA36 LA180	4	\$249.00
70-15085-00	HEAD PRINT LA120 DECWRITER	1	\$225.00
70-18461-04	HEAD R/W	4	\$100.00
70-21142-00	HEAD R/W DEQ TK50	1	\$140.00
HEADS-ST251	HEAD R/W DISK FIXED SEA ST251 E-BLOCK	3	\$65.00
HEADS-ST225	HEAD R/W HEAD STOCK ST-225 SEAGATE FIXED DISK	5	\$45.00
58810-ST138	HEAD R/W SEAGATE E-BLOCK ST138	3	\$45.00
257435-001	HEADER	1	\$14.00
3910-6	HEADSET CORD	1	\$34.50
9-121-0069	HEAT ABSORBING GLASS	1	\$43.00
119-0475-04	HEAT ELEM ELEC TEK 4631	1	\$330.00
HSA-8	HEAT SINK ASSEMBLY BEST 3KVA UPS	1	\$670.00
214-2049-01	HEAT SINK ASSEMBLY TEK 4014 BACKPLANE	1	\$65.00
2268066	HEAT SINK COMPOUND TYPE 29 SILICONE	5	\$6.90
124-0276-00(EX)	HEAT SINK MODULE DEFLECTION TEK 4014-1	1	\$145.00
890-0427	HEATER HALOGEN 110/115V	1	\$18.00
938-0003	HEATER 115V 620W FUSER	4	\$19.95
8-RH7-4007-000	HEATER 240V 570W QMS PSJET+	2	\$28.60
RH7-4007	HEATER 500W 120V LASER+ FUSER LAMP	2	\$14.95
6010-0034	HEATER ASSY PACE	2	\$80.00
RH7-4054-020	HEATER LAMP HPC 4+	1	\$19.95
37N413CBLACK	HEAT-SHRINK 1" 1 BOX OF 5 PIECES UINT OF ISSUE IS 1 PIECE EA	3	\$5.91
10003	HEATSINK	4	\$1.00
AD711AH	HIGH SPEED BIFET OP AMP	1	\$3.00
672-0503-05	HIGH VOLTAGE ASSY TEK 4631	2	\$142.50
808-865145-001-B	HIGH VOLTAGE UNIT (MAIN)	1	\$32.05
808-865145-002-B	HIGH VOLTAGE UNIT (TRANSFER)	1	\$32.70
BH906-ND	HOLDER BATTERY LITHIUM	2	\$2.00
600-0530	HOLDER BATTERY MAC2 MAC2X APM APPLE UPGRADE HOLDS TWO 3.6V BATTERIES	13	\$9.00
352-0395-01	HOLDER BEARING TEK 4631	4	\$25.00
3044	HOLDER BINDER LABEL	49	\$0.77
118-8453-00	HOLDER CASSETTE TEK 4693	2	\$0.75
BH2/3AC-ND	HOLDER COVER BATTERY LITHIUM	10	\$1.00
07470-40012	HOLDER LF ARM	1	\$1.00
131-0707-00	HOLDER PIN	25	\$1.00
949-0204	HOLDER RIGHT BRACKET ASSY HEATER TERMINATOR APM FUSER	2	\$5.95
07470-40011	HOLDER RT ARM	1	\$1.00
187799	HOLE PLUG	23	\$0.77
02251-60007	HOOD TERMINATOR HPC 2250	1	\$63.00
53534273	HOOK EXIT COVER LOCK RIGHT	2	\$1.50
922-0097	HOOK SNAP-IN PCB APM APPLE 7100	7	\$0.90
29-25219-00	HOT ROLLER DEC LN03 LN03+ RIA LP4080 LP4081	2	\$85.00
RA1-0697-00OKT	HOT ROLLER FUSER HPC 2686 APM APPLE LASER+ LASER	3	\$14.95
RB1 0323	HOT ROLLER HPC 33491A	2	\$17.01
RB1 2263	HOT ROLLER LASER-PRO FUSER LWPRO LASER4	3	\$17.00
10122-T1.5-.030	HOT WIRE SENSOR CARD 12 SENSORS .00015 WIRE .030 GAP ISSUED EACH FROM STOCK	24	\$37.50
10122-T2-030	HOT WIRE SENSOR CARD 12 SENSORS PER CARD WIRE TO BE 5 MICRON PLATINUM PLATED TUNGSTEN WIRE	33	\$33.33
10122-T2	HOT WIRE SENSORS 1.25MM (0.050 IN.) SENSOR LENGTH 0.0002 IN. DIAMETER PLATIUM PLATED TUNGSTEN V	36	\$32.08
10122-T1.5	HOT WIRE SENSORS 1.25MM (0.050IN.) SENSOR LENGTH 0.00015 IN. DIAMETER PLATIUM PLATED TUNGSTEN	26	\$29.17
22-01-2067-P	HOUSING TERMINAL W/LOCKING RAMP 6 CIRCUITS SLEEVE CONNECTOR	7	\$0.42
C4127X	HP LASERJET ULTRAPRECISE PRINT CARTRIDGE MAX CAPACITY FOR HP 4050 SERIES PRINTER (EA)	1	\$110.00
RG5-0531	HP POWER SUPPLY	2	\$98.81
962868-001	HUB	1	\$13.00
103027-001	HUB RIBBON P9012	1	\$29.15
9-203-2068-01	HUB ASSEMBLY	1	\$29.00
9-203-2068-02	HUB ASSEMBLY	1	\$29.00
9-203-2068-03	HUB ASSEMBLY	1	\$29.00
109767/08	HUB ASSEMBLY 9114 TAPE DRIVE SUPPLY	1	\$396.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
141680-001	HUB ASSY RIBBON SPOOL	2	\$29.00
402205502	HUB HIGH SPEED	1	\$36.00
160106-406	HUB TAPE DRIVE	2	\$10.00
672-0503-08-CP	HV ASSEMBLY	1	\$1,075.00
5061-3012	HYBRID IC TAPE CONT HP9845B	1	\$195.00
50202	HYGROTHERMOGRAPH CHART PAPER	2	\$33.90
50201	HYGROTHERMOGRAPH CHARTS CHART PAPER ORDER PER PK 50 PER PK	6	\$41.70
HYPHER	HYPERDRIVE SPARE PARTS	1	\$700.00
98032-66503	I/O	2	\$300.00
09816-66561	I/O BACKPLANE HP9816	1	\$145.00
CA3030	IC	2	\$0.23
MC1741	IC	1	\$0.36
SN74HC74N	IC	2	\$0.39
CD4011BE	IC	8	\$0.48
SN74HC151N	IC	2	\$0.55
MC74HC4017	IC	2	\$0.63
74195N	IC	7	\$0.67
74LS166N	IC	2	\$0.82
74LS76	IC	2	\$0.83
DG201	IC	3	\$0.87
74LS195AN	IC	2	\$0.91
7492	IC	32	\$0.95
74LS20	IC	2	\$0.96
MC834P	IC	3	\$1.10
74LS02N	IC	2	\$1.13
74166N	IC	6	\$1.13
LM110H	IC	1	\$1.20
MCT2	IC	1	\$1.20
M510T-8240	IC	2	\$1.20
MPSA17	IC	23	\$1.20
74LS00N	IC	2	\$1.27
MC1712CG	IC	3	\$1.27
74LS93	IC	2	\$1.30
LM320H-5	IC	2	\$1.30
MC846G	IC	2	\$1.30
MRD300	IC	2	\$1.30
MC1430P	IC	3	\$1.30
PN2369	IC	5	\$1.30
TID121	IC	5	\$1.30
7441B	IC	2	\$1.35
CX032B	IC	1	\$1.40
MC4318L	IC	1	\$1.40
SN7448	IC	1	\$1.40
SN7453N	IC	1	\$1.40
ECG9936	IC	2	\$1.40
MC4044	IC	2	\$1.40
SK3552	IC	2	\$1.40
SN72820N	IC	4	\$1.40
MC9328L	IC	5	\$1.40
MC3340P	IC	16	\$1.40
MC1709	IC	3	\$1.45
5222N	IC	1	\$1.50
LA7851	IC	1	\$1.50
MC1414P	IC	1	\$1.50
SK3162	IC	1	\$1.50
8719	IC	2	\$1.50
MC6810	IC	2	\$1.50
SN158093N	IC	2	\$1.50
9601	IC	3	\$1.50
LM341P12	IC	3	\$1.50
MC12061	IC	3	\$1.50
CA3028	IC	4	\$1.50
MC4018	IC	4	\$1.50
MC850P	IC	4	\$1.50
74LS293	IC	5	\$1.50
MC8601P	IC	5	\$1.50
SN72810P	IC	5	\$1.50
TIL31	IC	7	\$1.50
TL702CN	IC	7	\$1.50
PN5910	IC	3	\$1.51
SN72709	IC	3	\$1.55



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
92629-752	IC	1	\$1.60
MC1455	IC	3	\$1.60
74LS40	IC	4	\$1.60
CA3046	IC	4	\$1.60
SK3891	IC	4	\$1.60
SN74107N	IC	4	\$1.60
CD4000	IC	5	\$1.60
MC4324	IC	5	\$1.60
SN7437N	IC	1	\$1.65
DG200	IC	9	\$1.65
LH0032	IC	5	\$1.67
C358C	IC	1	\$1.70
MC14050	IC	3	\$1.70
UA733CN	IC	3	\$1.70
74LS92	IC	5	\$1.70
DG507	IC	5	\$1.70
75451P	IC	6	\$1.70
75462P	IC	15	\$1.70
CA3018	IC	1	\$1.80
LM302H	IC	1	\$1.80
MC1806P	IC	4	\$1.80
74143	IC	6	\$1.85
MC14016	IC	1	\$1.90
74LS283N	IC	3	\$1.91
LM320K-12	IC	3	\$2.00
LM318H	IC	1	\$3.00
STK7702	IC	2	\$10.27
FBT-00-047	IC	3	\$26.00
1813-0150	IC	1	\$1.00
74LS197	IC	2	\$1.00
74LS279	IC	2	\$1.00
8250N	IC	2	\$1.00
1818-0334	IC	5	\$1.00
74LS283	IC	14	\$1.00
7454N	IC	18	\$1.00
5711M	IC	38	\$1.00
1820-0577	IC	2	\$2.00
MC10135P	IC	2	\$2.00
1820-1873	IC	3	\$5.00
74S472	IC	1	\$7.00
54117206	IC	1	\$17.00
156-1789-00	IC	1	\$25.00
2620-8	IC	1	\$31.00
MAX232CPE	IC +5V POWERED MULTICHANNEL RS-232 DRIVER RECEIVERS NEWARK P/N 34C3833	2	\$2.91
2690053	IC 4CH DIFF CMOS	1	\$6.90
MCT26	IC 6 DIP	6	\$0.46
2840004	IC 6N136	1	\$5.00
2660001	IC 7141-LCJN	1	\$17.85
74173N	IC 74173 DM8551 16DIP	6	\$1.10
74ALS138N	IC 74ALS138 16DIP	2	\$0.60
5962-01-057-7054	IC 74LS194 16DIP	2	\$1.88
6502	IC 8 BIT PROCESSOR 40DIP	1	\$14.00
83D87	IC 80387-20 COPROCESSOR 80387	1	\$79.95
26642128F	IC 90023017 CONTROL LOGIC PROM 74S472	1	\$11.55
26642134A	IC 90023070 FAST A/D 82S147 PROM	1	\$1.00
ECG823	IC AF PO 8 PIN DIP	2	\$2.31
AD7574JN	IC ANALOG DEVICES 8 BIT ANALOG TO DIGITAL CONVERTER	2	\$7.99
156-0394-00	IC APL GENERATOR	1	\$100.00
DS 1210	IC BATTERY BACK-UP	2	\$4.74
2690009	IC BIFET OP AMP 8DIP	1	\$6.00
735-0008	IC CD4510BCN	2	\$0.35
2660017	IC CD4515	3	\$5.00
155-0049-02	IC CIRCUIT REF. U600	2	\$60.00
74HC193	IC COUNTER 16DIP	4	\$0.61
ECG7096	IC CURRENT CONTROLLER 8DIP	1	\$3.20
DS1260	IC DALLAS CLOCK CHIP CMOS	1	\$10.99
PA88	IC DRIVER	1	\$144.00
2660030	IC HEX INVERT	3	\$5.00
TDA4950	IC HORIZONTAL 4950 8DIP	1	\$12.95
ECG7063	IC LA7852 HORIZONTAL VERTICAL 22DIP	1	\$3.89
40-17535	IC LD121CJ IC2 18DIP	1	\$25.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2900019	IC LM309H	3	\$6.00
CD4071BE	IC MC14071	2	\$0.36
CD4538BE	IC MULTIVIBRATOR DUAL 16DIP	2	\$1.02
2660037	IC MUX 18DIP	4	\$22.35
DS1244Y	IC NON-VOL SRAM	0	\$36.58
DS1220Y	IC NOVDRAM (NON-VOLATILE RANDOM ACCESS MEMORY) 100NSEC	2	\$6.75
74S244N	IC OCTAL BUFFER/LINE DRIVER 20DIP	1	\$0.83
2690008	IC OP AMP NEFF 620600	8	\$4.95
2690026	IC OP AMP NEFF 620600 8DIP	4	\$9.00
26942350	IC OP-AMP OPA602	2	\$14.40
2690054	IC OPERATIONAL AMPLIFIER TYPE AD845JN	1	\$12.45
26742155	IC PAL 20DIP	1	\$12.45
640-700288-001	IC PAL 24DIP	2	\$35.00
640-701086-000	IC PAL 24DIP	2	\$35.00
NTE74LS190	IC PRESETTABLE SYNCHRONOUS DECADE UP/DOWN COUNTER	6	\$2.65
386DX-33	IC PROCESSOR 386 386DX 33MHZ 386/33 AT	5	\$39.95
A2TICL8211CPA	IC PROGRAMMABLE ZENER 8DIP	2	\$1.79
640-700235-002	IC PROM 24DIP	1	\$21.45
93422PC	IC RAM MOD DBIOP 22DIP	1	\$41.00
STK7410	IC REGULATOR	1	\$24.33
ECG999	IC REGULATOR TO-92	2	\$1.14
3122P	IC REGULATOR TVI970 +12V POWER SUPPLY	5	\$7.50
W171DIP2	IC RELAY	2	\$3.94
23-365A1	IC ROM ADDRESS 16DIP	1	\$10.00
1818-0833	IC ROM 24DIP	2	\$20.50
Z0853008VSC	IC SERIAL COMMUNICATION CONTROLLER SURFACE MOUNT	2	\$9.50
74F280	IC SILG 3030 14DIP	3	\$0.36
TDA4601	IC SIP SPECIAL ECG7002	2	\$6.56
74HC86D	IC SOIC SURFACE MOUNT	2	\$1.00
344S0062	IC SWIM APM MACII MACIIX	2	\$50.00
74LS173	IC TTL LO PWR 16DIP	6	\$0.84
MC68901	IC VART 68901 48DIP	1	\$8.00
139-621-001	IC VERTICAL TDA8170	2	\$9.00
TDA8172	IC VERTICAL OUTPUT	1	\$2.99
M52001SP	IC VIDEO	1	\$12.99
HA11505	IC VIDEO AMP	1	\$39.00
272P08101	IC VIDEO AMP M51387 30DIP	2	\$9.03
LM1201	IC VIDEO AMPLIFIER 16DIP	1	\$6.99
2640003	IC Z0801606PSC 40 PIN	2	\$36.00
MC14001CP	IC 14001 CD4001AE 14DIP	2	\$0.23
74LS54N	IC 14DIP	3	\$0.22
7440	IC 14DIP	17	\$0.34
74LS73	IC 14DIP	2	\$0.39
74LS242N	IC 14DIP	3	\$0.40
SN74LS51N	IC 14DIP	3	\$0.44
74S140	IC 14DIP	5	\$0.45
7405	IC 14DIP	7	\$0.48
74LS37	IC 14DIP	2	\$0.56
7411	IC 14DIP	2	\$0.60
7413	IC 14DIP	23	\$0.65
7433	IC 14DIP	9	\$0.79
7451	IC 14DIP	6	\$0.80
74128N	IC 14DIP	1	\$0.85
MPQ3904	IC 14DIP	2	\$0.89
74LS27N	IC 14DIP	3	\$1.19
7427	IC 14DIP	3	\$1.20
DM8830	IC 14DIP	11	\$1.27
74S40	IC 14DIP	3	\$1.40
1820-0588	IC 14DIP	8	\$1.50
ECG 74C901	IC 14DIP	4	\$1.70
74LS04N	IC 14DIP	5	\$1.96
74LS08N	IC 14DIP	2	\$1.99
7486	IC 14DIP	7	\$2.19
74197	IC 14DIP	3	\$2.41
1820-0586	IC 14DIP	8	\$2.45
ECG 74C902	IC 14DIP	4	\$2.80
936/MC836	IC 14DIP	5	\$2.86
932/MC832	IC 14DIP	15	\$2.96
7442	IC 14DIP	6	\$3.21
1820-0584	IC 14DIP	5	\$3.40
2690017	IC 14DIP	2	\$6.10

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
75207N	IC 14DIP	5	\$6.65
7420	IC 14DIP	10	\$1.00
7433	IC 14DIP	12	\$1.00
151-0335-00	IC 14DIP	4	\$5.00
7412	IC 14DIP	25	\$38.00
DM8820	IC 14DIP NO LONGER AVAILABLE	16	\$1.00
7409	IC 14DIP NO LONGER AVAILABLE	10	\$1.00
74LS243N	IC 14DIP NO LONGER AVAILABLE	3	\$1.50
74LS03N	IC 14DIP NO LONGER AVAILABLE	1	\$1.52
MC1458CL	IC 14PIN DIP	10	\$1.47
74150	IC 16 BIT MUX/STROBE 24DIP	4	\$1.88
74LS153N	IC 16DIP	3	\$0.37
MC4001P	IC 16DIP	2	\$0.51
74F112	IC 16DIP	26	\$0.52
74LS367N	IC 16DIP	4	\$0.55
74LS123N	IC 16DIP	4	\$0.61
74LS279N	IC 16DIP	5	\$0.64
74F138	IC 16DIP	3	\$0.68
74LS298N	IC 16DIP	3	\$0.87
74165N	IC 16DIP	6	\$0.90
74LS156N	IC 16DIP	3	\$0.93
74194N	IC 16DIP	2	\$1.23
7483	IC 16DIP	5	\$1.25
74109N	IC 16DIP	3	\$1.39
75123N	IC 16DIP	6	\$1.40
MC10H116P	IC 16DIP	2	\$1.41
74368N	IC 16DIP	6	\$1.79
MC10H131P	IC 16DIP	1	\$2.02
MC7475P	IC 16DIP	3	\$2.05
75325J	IC 16DIP	6	\$2.20
SN75174N	IC 16DIP	1	\$2.44
MC10H125P	IC 16DIP	1	\$2.58
74148N	IC 16DIP	2	\$2.60
74221N	IC 16DIP	3	\$2.69
MC1408L8	IC 16DIP	1	\$2.70
SN75175N	IC 16DIP	1	\$2.75
75234J	IC 16DIP	9	\$3.17
MC10H135P	IC 16DIP	1	\$3.62
MC10H136P	IC 16DIP	1	\$11.50
19-14438	IC 16DIP	1	\$54.00
155-0152-01	IC 16DIP	1	\$125.00
74F157	IC 16DIP	4	\$1.00
74S201N	IC 16DIP	2	\$2.00
156-0850-02	IC 16DIP	1	\$5.00
74123	IC 16DIP 01203BEB	4	\$11.87
1826-0719	IC 16DIP SPECIAL	1	\$6.50
MC3470AP	IC 18DIP	4	\$3.32
MC3467L	IC 18DIP	3	\$3.94
74ALS374	IC 20DIP	1	\$2.00
961248-001A	IC 20DIP CIPHER M990 TAPE DRIVE	1	\$33.50
961246-001A	IC 20DIP CIPHER M990 TAPE DRIVE	2	\$35.00
961247-001A	IC 20DIP DIGITAL M990 CIPHER	1	\$40.00
156-0441-00	IC 24DIP	1	\$1.00
74F241	IC 3 STATE BUSF DRIVER BUFFER DRIVER 20DIP	5	\$0.57
LM307N	IC 307 HPC 9845 8DIP	2	\$2.82
8216	IC 4 BIT BUS DRIVER 16DIP	1	\$2.00
CD4049	IC 4049 HEX INVERTER 16DIP	2	\$0.27
LSI-22	IC 40DIP	1	\$13.65
C42020KA	IC 42020 40DIP	1	\$10.00
74LS85N	IC 5962-01-059-2592	6	\$2.04
74S381N	IC 640-100103-001 20DIP	5	\$5.10
74S471N	IC 640-100104-002 20DIP	5	\$6.22
COM5036P	IC 640-400021-001 18DIP	2	\$11.55
CY7C403-10PC	IC 64X4 FIFO CMOS 100NS CYPRESS SEMICONDUCTOR 16DIP	23	\$9.66
723HC	IC 723 CAN TO-100 MC1723CG LM723CH	6	\$1.45
DM8093N	IC 74125 BUFFER QUAD TRISTATE 14DIP	38	\$1.15
74132	IC 74132 QUAD 2-INPUT POSITIVE NAND SCHMITT TRIGGER 14DIP	2	\$1.77
74ALS574AN	IC 74ALS574 20DIP	3	\$1.08
74AS74N	IC 74AS74	1	\$0.45
74C08	IC 74C08.SN74C08N 16DIP	2	\$1.96
74F373N	IC 74F373 OCTAL D-TYPE TRANSPARENT LATCHES 20DIP	1	\$0.83

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
74F38N	IC 74F38N 14DIP	3	\$0.44
07F6973	IC 74HC04AN	1	\$0.49
07F6980	IC 74HC08AN	1	\$0.49
74C137	IC 74HC137 SN74C137N 16DIP	1	\$0.75
74C257	IC 74HC257 SN74C257N 16DIP	1	\$0.65
74LS122	IC 74LS122 DIGITAL 14DIP	2	\$0.35
74198	IC 8 BIT SHIFT RGSTR 24DIP	6	\$5.50
74199	IC 8 BIT SHIFT RGSTR TI 24DIP	5	\$2.00
WD8250PL	IC 8250 40DIP	3	\$4.00
82C206	IC 84PIN PLCC BUS I/O CONTROLLER	3	\$25.00
74LS259N	IC 8-BIT 74LS259 ADDRESSABLE LATCH	3	\$0.80
LM748CN	IC 8DIP	4	\$0.60
MC3488AP1	IC 8DIP	2	\$1.91
1826-0544	IC 8DIP	2	\$7.00
50026	IC 8DIP LF355N	3	\$0.81
74180	IC 9 BIT PARITY GEN CHECK 14DIP	5	\$0.68
ADC 80AG-12	IC A/D	1	\$78.00
MC6850P	IC ACIA 6850 24DIP	2	\$2.25
MC1496P	IC AGC AMPLIFIER 14DIP	2	\$0.58
MC3470P	IC AMP	3	\$5.00
CXA1044BP	IC AMP COLOR 1601 18DIP	1	\$11.00
TLO82CP	IC AMPLIFIER 082 JFET DUAL 8DIP	3	\$0.88
LM201AH	IC AMPLIFIER 201 OP AMP CAN	5	\$7.54
LH2440S	IC AMPLIFIER 2440 VIDEO VERTICAL 12PIN	2	\$38.97
TDA2595	IC AMPLIFIER 2595 DEFLECTION PROCESSOR 18DIP	2	\$10.72
TDA2653A	IC AMPLIFIER 2653 DEFLECTION AMP IBM5154	2	\$9.01
26900421	IC AMPLIFIER 26900371 NEFF OP AMP 8DIP	2	\$6.60
LM301AH	IC AMPLIFIER 301 CAN PACKAGE MOTOROLA	3	\$2.33
LM301AN	IC AMPLIFIER 301 OP AMP 8DIP	2	\$0.86
LM311N	IC AMPLIFIER 311 8DIP	3	\$0.65
LM324N	IC AMPLIFIER 324 OP AMP 14DIP	6	\$2.48
MC3301P	IC AMPLIFIER 3301	2	\$0.88
LF351N	IC AMPLIFIER 351 LF351N BIFET OP AMP 8DIP	1	\$4.08
LF353N	IC AMPLIFIER 353 DUAL BIFET OP AMP 8DIP	4	\$6.29
LM358N	IC AMPLIFIER 358 OP AMP 8DIP	2	\$0.30
AD521JD	IC AMPLIFIER 521 INSTRUMENTATION 14DIP	2	\$43.09
LM747CN	IC AMPLIFIER 747 DUAL 741 14DIP	6	\$0.62
LM741CN	IC AMPLIFIER 8DIP 741 OP AMP	4	\$0.50
LM741CH	IC AMPLIFIER CAN 741 LM741CH OP AMP	3	\$2.74
LM308H	IC AMPLIFIER LM308 METAL CAN	2	\$4.98
TLO64CN	IC AMPLIFIER TLO64CN OP AMP QUAD 14DIP	2	\$0.77
TLO72CP	IC AMPLIFIER TLO72CP SK7641 8DIP	5	\$0.46
TLO81	IC AMPLIFIER TLO81 OP AMP TI	3	\$4.08
LM1203N	IC AMPLIFIER VIDEO 1203 28DIP	5	\$3.52
156-0067-00	IC ANALOG 156-0067-00 8DIP	1	\$4.00
LM2917N	IC ANALOG 2917 14DIP	3	\$2.50
DG303CJ	IC ANALOG 303 SWITCH SILICONIX 14DIP	3	\$4.96
LM309K	IC ANALOG 309	2	\$3.82
LM339N	IC ANALOG 339 QUAD COMPARATOR	11	\$0.50
NE558N	IC ANALOG 558 IBM PC XT TIMER QUAD 16DIP	5	\$1.25
CD4053	IC ANALOG CD4053 CMOS MULTIPLEXER/DEMULTIPLEXER MC14053 16DIP	4	\$2.89
HI3-0516-5	IC ANALOG CMOS MUX 28DIP	1	\$33.00
2660053	IC ANALOG HI-201HS 16DIP	3	\$10.00
2690014	IC ANALOG LF444 14DIP	4	\$5.00
HI1-0509-5	IC ANALOG MUX 16DIP	6	\$6.68
SK9182	IC ANALOG SK9182 TDA1170 SNM 19M ECG1289	2	\$11.63
ULN2065B	IC ANALOG ULN2065B ULN2064	4	\$2.75
68020(EX)	IC APM APPLE CPU 68020 PROCESSOR	1	\$150.00
343-0002(EX)	IC APM APPLE HMMU MAC2	1	\$90.00
74141	IC BCD TO DEC/DRVR 16DIP	2	\$7.07
CD4028BE	IC BCD TO DECIMAL DECODER 16DIP	7	\$0.37
640-100116-002	IC BIPR RM 512X4 16DIP	4	\$27.00
640-100119-051	IC BLN PIC ROM	1	\$1.00
640-200041-183	IC BLN PROM	2	\$7.00
640-200041-184	IC BLN PROM	2	\$7.00
640-200041-185	IC BLN PROM	2	\$7.00
640-200041-186	IC BLN PROM	2	\$7.00
640-200041-187	IC BLN PROM	2	\$7.00
640-200041-188	IC BLN PROM	2	\$7.00
640-200041-189	IC BLN PROM	2	\$7.00
640-200041-190	IC BLN PROM	2	\$7.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
640-100119-052	IC BLN PROM	1	\$15.00
640-100119-053	IC BLN PROM	1	\$15.00
640-100119-031	IC BLN PROM MODCOMP	1	\$15.00
640-100119-032	IC BLN PROM MODCOMP	1	\$15.00
640-100119-034	IC BLN PROM MODCOMP	2	\$15.00
640-100119-035	IC BLN PROM MODCOMP	2	\$15.00
640-200041-191	IC BLN PROM MODCOMP	3	\$19.00
640-200096-002	IC BLN PROM MODCOMP	3	\$19.00
640-200096-003	IC BLN PROM MODCOMP	3	\$19.00
640-100118-004	IC BLN PROM MODCOMP	2	\$20.00
640-100118-005	IC BLN PROM MODCOMP	3	\$20.00
640-100117-002	IC BLN PROM MODCOMP	3	\$24.00
640-100119-030	IC BLN PROM MODCOMP	2	\$34.00
640-100119-052	IC BLN PROM MODCOMP	4	\$34.00
640-100119-059	IC BLN PROM MODCOMP	4	\$34.00
640-100119-026	IC BLN PROM MODCOMP 16DIP	1	\$15.00
640-100119-028	IC BLN PROM MODCOMP 16DIP	1	\$15.00
640-100119-029	IC BLN PROM MODCOMP 16DIP	1	\$15.00
640-100119-027	IC BLN PROM MODCOMP 16DIP	2	\$15.00
640-100117-004	IC BLN PROM MODCOMP 16DIP	1	\$22.00
640-200061-007	IC BLN PROM MODCOMP 16DIP	1	\$22.00
640-200061-013	IC BLN PROM MODCOMP 16DIP	1	\$22.00
640-200061-015	IC BLN PROM MODCOMP 16DIP	1	\$22.00
640-100117-003	IC BLN PROM MODCOMP 16DIP	1	\$24.00
640-100117-008	IC BLN PROM MODCOMP 16DIP	1	\$24.00
640-100117-009	IC BLN PROM MODCOMP 16DIP	1	\$24.00
640-100117-013	IC BLN PROM MODCOMP 16DIP	2	\$24.00
640-100117-014	IC BLN PROM MODCOMP 16DIP	2	\$24.00
640-100117-015	IC BLN PROM MODCOMP 16DIP	2	\$24.00
640-100117-016	IC BLN PROM MODCOMP 16DIP	2	\$24.00
640-100117-011	IC BLN PROM MODCOMP 16DIP	4	\$24.00
640-100119-025	IC BLN PROM MODCOMP 16DIP	1	\$29.00
640-100119-022	IC BLN PROM MODCOMP 16DIP	1	\$34.00
640-100119-020	IC BLN PROM MODCOMP 16DIP	2	\$34.00
640-100119-021	IC BLN PROM MODCOMP 16DIP	2	\$34.00
640-100121-076	IC BLN PROM MODCOMP 18DIP	1	\$35.00
640-100123-001	IC BLN PROM MODCOMP 28DIP	1	\$69.00
640-100124-001	IC BLN PROM MODCOMP 28DIP	1	\$76.00
640-100124-002	IC BLN PROM MODCOMP 28DIP	1	\$76.00
640-100124-003	IC BLN PROM MODCOMP 28DIP	1	\$76.00
640-100123-002	IC BLN PROM MODCOMP 28DIP	1	\$79.00
640-200061-014	IC BLN PROM MODCOMP.16DIP	1	\$22.00
640-100117-012	IC BLN PROM REPL -00 16DIP	1	\$24.00
640-200061-111	IC BLN PROM REPL-001 16DIP	1	\$24.00
640-200061-112	IC BLN PROM REPL-002 16DIP	1	\$22.00
640-200061-114	IC BLN PROM REPL-004 16DIP	1	\$22.00
640-200061-115	IC BLN PROM REPL-005 16DIP	1	\$22.00
640-200061-116	IC BLN PROM REPL-006 16DIP	1	\$22.00
640-200061-117	IC BLN PROM REPL-008 16DIP	1	\$22.00
640-200061-118	IC BLN PROM REPL-009 16DIP	1	\$22.00
640-200061-119	IC BLN PROM REPL-010 16DIP	1	\$22.00
640-200061-120	IC BLN PROM REPL-011 16DIP	1	\$22.00
640-200061-121	IC BLN PROM REPL-012 16DIP	1	\$22.00
640-200061-123	IC BLN PROM REPL-017 16DIP	1	\$22.00
640-200061-113	IC BLN PROM REPL-018 16DIP	1	\$24.00
640-200061-122	IC BLN PROM REPL-100 16DIP	1	\$22.00
640-100117-041	IC BLN REPL -007 16DIP	1	\$24.00
640-100119-061	IC BLOWN PROM	1	\$32.00
640-100118-006	IC BLOWN PROM N82S126N MODCOMP	3	\$20.00
1818-3115	IC BOOT ROM 2 28DIP	1	\$80.00
74LS244N	IC BUFFER 74LS244 20DIP	4	\$0.70
P8212	IC BUFFER 8212 24DIP	1	\$5.52
06F2067	IC CA3096E TRANSISTOR/DIODE ARRAY MFG INTERSIL. USED IN HP3457A	1	\$2.90
LM361H	IC CAN	3	\$1.40
LM202H	IC CAN	2	\$1.80
709HC	IC CAN	3	\$2.49
LM310H	IC CAN	3	\$3.75
1826-0229	IC CAN	2	\$13.00
156-0921-02	IC CAN AMPLIFIER 3140 156-0921-02 CA3140S	1	\$2.75
CD4016AY	IC CD4016AE	1	\$1.50
06F3032	IC CD74HC123E	1	\$0.50

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1813-0191	IC CLOCK	1	\$17.00
MC146818	IC CLOCK 146818 REAL TIME PLUS RAM 24DIP	1	\$4.75
MM58167AN	IC CLOCK 58167 REAL TIME CLOCK 24DIP	3	\$10.40
74S124	IC CLOCK 74S124 VCO	4	\$2.49
P8155	IC CLOCK 8155 RAM I/O TIMER 40DIP	1	\$4.40
P8253-5	IC CLOCK 8253 PROGRAMMABLE INTERVAL TIMER TEK 834 24DIP	1	\$4.00
Z80A-CTC	IC CLOCK TIMER ZILOG Z0843004PSC Z80A-CTC 28DIP	4	\$1.72
CD4042BE	IC CMOS D LATCH 16DIP	3	\$0.45
74HC11	IC CMOS 14DIP	1	\$0.49
74HC00	IC CMOS 14DIP	5	\$0.49
1820-3079	IC CMOS 16DIP	2	\$2.60
1820-3182	IC CMOS 16DIP	1	\$3.10
1820-3146	IC CMOS 16DIP	1	\$4.00
1820-3373	IC CMOS 16DIP	1	\$7.50
74HC240	IC CMOS 20DIP	1	\$0.78
1820-3330	IC CMOS 20DIP	2	\$1.80
74HC640	IC CMOS 20DIP	1	\$2.99
MC6821P	IC CMOS 6821 40DIP	3	\$4.50
2070005	IC CMOS ANALOG SW. SPST HI-5042	1	\$8.40
74HC244	IC CMOS DVR	3	\$1.07
TMS27C512-2JL	IC CMOS EPROM 512K 64KX8 200NS 28DIP	2	\$5.85
20740174	IC CMOS HEX D-FF 16DIP CD40174BE	3	\$5.00
CD4047BE	IC CMOS MULTIVIBRATOR 14DIP	2	\$0.96
640-400001-001	IC COM 2601 MODCOMP 40DIP	1	\$127.00
AM25LS2521PC	IC COMPARATOR 25LS2521 20DIP	3	\$2.45
LM393N	IC COMPARATOR 393 8DIP	3	\$0.24
DM93S46N	IC COMPARATOR 6 BIT 16DIP	1	\$6.00
SK9071	IC COMPARATOR 711 14DIP	2	\$1.31
74F520N	IC COMPARATOR 74F520 8 BIT IDENTITY 20DIP	5	\$1.10
74F521	IC COMPARATOR 8-BIT IDENTITY 20DIP	3	\$0.90
MB8795ACR	IC CONTROLLER	1	\$57.50
ECG1672	IC CONTROLLER 1672 TDA1060 16DIP	2	\$4.65
1MA6-0001	IC CONTROLLER 1MA6-0001 28DIP	1	\$13.00
MC3479P	IC CONTROLLER 3479 STEPPER MOTOR 40V ST225 SEA STEPPER	3	\$4.74
SG3524N	IC CONTROLLER 3524 IBM 5175 16DIP	3	\$1.12
1820-3659	IC CONTROLLER 40DIP	1	\$31.00
NE5560N	IC CONTROLLER 5560 16DIP	1	\$1.60
SCC63484C8N64	IC CONTROLLER 64DIP	1	\$32.73
MC6845P	IC CONTROLLER 6845 IBM 5150 CRT CONTROLLER 40DIP	1	\$4.43
UPD765AC	IC CONTROLLER 765	2	\$8.70
P82064	IC CONTROLLER 82064 WD2010 40DIP	1	\$34.80
P8237A-5	IC CONTROLLER 8237 AM9517A-5PC 40DIP	1	\$6.50
P8255A-5	IC CONTROLLER 8255 PPI	0	\$6.50
P8259A	IC CONTROLLER 8259 PROGRAMABLE INTERRUPT. CONT. 28DIP	1	\$2.45
8272	IC CONTROLLER 8272 FLOPPY INTEL 40DIP	2	\$4.95
P8274	IC CONTROLLER 8274 SERIAL COMMUNICATIONS 40DIP	4	\$11.48
P82C301C	IC CONTROLLER 82C301 BUS CONTROLLER SURFACE MOUNT	1	\$24.50
P82C302	IC CONTROLLER 82C302 MEMORY CONTROLLER SURFACE MOUNT	1	\$24.50
CRT9007	IC CONTROLLER 9007 VIDEO PROCESSOR 40DIP	1	\$18.00
344-0041B	IC CONTROLLER APM DISK CONTROLLER 24DIP	1	\$19.00
AM2964BPC	IC CONTROLLER DYNAMIC RAM 40DIP	2	\$8.50
MC6820L	IC CONTROLLER ECG6821 6820 40DIP	2	\$9.70
1820-2549	IC CONTROLLER GBIP 40DIP	1	\$44.00
1LH4-0001	IC CONTROLLER HPIB 40DIP	1	\$18.00
1820-2624	IC CONTROLLER MC68B09 40DIP	1	\$16.50
VL82C100-QC	IC CONTROLLER PERIPHERAL INTERFACE VLSI PLCC SURFACE MOUNT	1	\$19.95
WD42C22A-JU10-02	IC CONTROLLER SURFACE MOUNT	1	\$64.00
MVME6000BC	IC CONTROLLER VME	1	\$175.00
Z80A-DART	IC CONTROLLER Z0847004PSC 40DIP	2	\$2.75
LM2907N	IC CONVERTER F TO V 14DIP	2	\$1.74
LM2907N-8	IC CONVERTER F TO V 8DIP	1	\$1.74
487-33	IC CO-PROCESSOR 486 33MHZ AT	1	\$51.00
19-14424-01	IC COSTUM LSI DEC VT100 28DIP	3	\$55.00
74161	IC COUNTER 74161 16DIP	7	\$0.49
74193	IC COUNTER 74193 16DIP	11	\$1.00
7493	IC COUNTER 7493 14DIP	5	\$0.99
74LS160	IC COUNTER 74LS160 SYNCHRONOUS DECADE 16DIP	5	\$0.47
74LS169N	IC COUNTER 74LS169 LOOK AHEAD CARRY 16DIP	8	\$1.15
74LS393	IC COUNTER 74LS393 14DIP	4	\$0.70
74S163N	IC COUNTER 74S163 4-BIT BINARY SYNCHRONOUS 16DIP	10	\$2.66
P8254-2	IC COUNTER 8254 24DIP	4	\$4.60

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
AM26LS30DC	IC COUNTER INTERFACE ADM 16DIP	2	\$4.20
74F162	IC COUNTER PRESET BCD CODE 16DIP	2	\$4.25
74LS163N	IC COUNTER SYNCHRONOUS 4-BIT 16PIN	6	\$1.27
74192	IC COUNTER SYNCHRONOUS PRESET 16DIP	6	\$1.08
74F161	IC COUNTER SYNCHRONOUS PRESET 16DIP	6	\$3.50
Z8036-Z-CIO	IC COUNTER Z8036 COUNTER + IO 40DIP	2	\$7.73
Y440804101	IC CPU EPSON 64DIP	3	\$49.84
Y440801001	IC CPU EPSON FX80 64DIP	3	\$52.25
Z80A-CPU	IC CPU Z0840004PSC ZILOG 40DIP	4	\$5.90
3150006	IC DAC 10BIT DATEL AD7533LN 16DIP	2	\$18.00
DS1243Y	IC DALLAS CLOCK CHIP	1	\$28.35
DS1287	IC DALLAS REAL TIME CLOCK NCZ	2	\$14.86
ULN2803A	IC DARLINGTON ARRAY	2	\$1.15
74ALS374	IC DEC VS21V 20DIP	6	\$0.99
74159N	IC DECODER 4-10-16 LINE DECODER/DEMUX 24DIP	5	\$2.05
74155N	IC DECODER 74155 16DIP	8	\$0.66
74156N	IC DECODER 74156 16DIP	4	\$0.88
74157	IC DECODER 74157 16DIP	20	\$1.52
74LS138N	IC DECODER 74LS138 16DIP	4	\$0.30
74LS139N	IC DECODER 74LS139 16DIP	2	\$0.27
74LS151N	IC DECODER 74LS151 16DIP	11	\$0.42
74LS612	IC DECODER 74LS612 MEMORY MAPPER 40DIP	1	\$7.77
74S153	IC DECODER 74S153 14DIP	1	\$0.10
74F139	IC DECODER DUAL 1-OF-4 16DIP	2	\$0.95
SN74HC138D	IC DECODER/DEMULTIPLEXER TYPE SOIC. USE PRECISION FILTER	1	\$0.63
74F283N	IC DECODER/MULTIPLEXER 74F283 16DIP	4	\$1.15
DP8311	IC DIGITAL	2	\$2.90
156-0961-00	IC DIGITAL	1	\$15.00
74S51	IC DIGITAL MEGALANCHE 3696 14DIP	1	\$2.00
74LS670	IC DIGITAL MEGALANCHE 3696 16DIP	1	\$2.00
74F109	IC DIGITAL MEGALANCHE 3696 16DIP	2	\$2.00
74F189	IC DIGITAL MEGALANCHE 3696 16DIP	2	\$2.00
74LS257	IC DIGITAL MEGALANCHE 3696 16DIP	13	\$2.00
74S133N	IC DIGITAL 13-INPUT POS-HAND GATE 16DIP	5	\$0.61
74LS133N	IC DIGITAL 13-INPUT POSITIVE NAND GATE 16DIP	1	\$0.66
MC14011	IC DIGITAL 14011 QUAD 2 IN NAND 14DIP	6	\$0.37
MC14013BCP	IC DIGITAL 14013 DFLOP NTE4013B 14DIP	2	\$0.65
MC14093BC	IC DIGITAL 14093 74HC132 CD4093 74HCT132 54HCT132 54HC132 14DIP	2	\$0.58
MC14506B	IC DIGITAL 14506 GATES AND-OR-INVERT	1	\$0.70
74F10	IC DIGITAL 14DIP	1	\$0.53
74F125N	IC DIGITAL 14DIP	4	\$0.78
74S260N	IC DIGITAL 14DIP	5	\$0.88
L293D	IC DIGITAL 14DIP	5	\$12.95
74LS12N	IC DIGITAL 14DIP 74LS12 4830 IEEE CONTROLLER	24	\$1.00
156-1191-01	IC DIGITAL 156-1191-01 TEK	1	\$2.10
74LS139	IC DIGITAL 16DIP	6	\$0.51
MC10104	IC DIGITAL 16DIP	5	\$0.52
MC10131	IC DIGITAL 16DIP	3	\$1.52
156-1335-00	IC DIGITAL 16DIP	2	\$2.50
1820-1562	IC DIGITAL 16DIP 74C175	2	\$2.15
MC3403P	IC DIGITAL 3403 1826-0312 14DIP	2	\$0.72
CD4001	IC DIGITAL 4001 CMOS 2INPUT NOR MC14001 14DIP	2	\$0.33
SK4068B	IC DIGITAL 4068 14DIP	1	\$0.91
MC14070	IC DIGITAL 4070 14DIP	2	\$0.91
CD4077	IC DIGITAL 4077 QUAD EXCLUSIVE-NOR MC 14077 14DIP	2	\$1.06
CD4081	IC DIGITAL 4081 CMOS MC14081	3	\$0.23
MC14528BCP	IC DIGITAL 4528 MULTIVIBRATOR CD4098BF 16DIP	2	\$0.95
74283N	IC DIGITAL 4-BIT ADDER 16DIP	11	\$1.00
74LS375N	IC DIGITAL 4-BIT BISTABLE LATCH 16DIP	3	\$0.60
74LS670N	IC DIGITAL 4X4 REGISTER FILE 16DIP	4	\$0.99
74170N	IC DIGITAL 4X4 REGISTER FILE 16DIP	5	\$1.75
7400	IC DIGITAL 7400 QUAD 2IN NAND 14DIP	0	\$2.18
7401	IC DIGITAL 7401 14DIP	6	\$0.35
7402	IC DIGITAL 7402 QUAD 2IN NOR 14DIP	3	\$0.57
7403	IC DIGITAL 7403 14DIP	5	\$0.46
7406	IC DIGITAL 7406 HEX INVERTER O.C. 14DIP	7	\$0.56
7407	IC DIGITAL 7407 14DIP	5	\$0.49
7408	IC DIGITAL 7408 QUAD 2IN AND 14DIP	12	\$9.87
7410	IC DIGITAL 7410 TRIPLE 3IN NAND 14DIP NO LONGER AVAILABLE	3	\$0.57
74LS112N	IC DIGITAL 74112 16DIP	16	\$0.25
7412	IC DIGITAL 7412 NAND GATE TI 14DIP	10	\$0.60

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
74121	IC DIGITAL 74121 14DIP	7	\$0.20
74122	IC DIGITAL 74122 RETRIGGERABLE MONOSTABLE MVB 14DIP	19	\$0.69
74126N	IC DIGITAL 74126 BUFFER 14DIP	2	\$1.27
7414	IC DIGITAL 7414 HEX SCHMITT-TRIG INVERTER 14DIP	2	\$0.74
74153	IC DIGITAL 74153 DUAL 4 TO 1 DATA SEL/MUX 16DIP	3	\$1.38
74154	IC DIGITAL 74154 4 TO 16 LINE DECODER/DEMUX 24DIP	2	\$3.75
7416	IC DIGITAL 7416 14DIP	1	\$0.76
DM8551N	IC DIGITAL 74173N 4-BIT D-TYPE REGISTER 16DIP	44	\$4.00
74174	IC DIGITAL 74174 HEX D-FLOP 16DIP	2	\$3.20
74175N	IC DIGITAL 74175 LATCH 16DIP	16	\$0.78
74177	IC DIGITAL 74177 14DIP	2	\$1.85
7420	IC DIGITAL 7420 DUAL 4IN NAND 14DIP	4	\$3.23
7426	IC DIGITAL 7426 NAND OC 14DIP	5	\$1.03
74279B	IC DIGITAL 74279 QUAD LATCH 16DIP	3	\$2.25
74298	IC DIGITAL 74298 16DIP	6	\$1.25
74S30	IC DIGITAL 7430 14DIP	4	\$0.44
7430	IC DIGITAL 7430 8IN NAND 14DIP	7	\$0.30
74365N	IC DIGITAL 74365 640-200073-001 16DIP	5	\$1.12
74367N	IC DIGITAL 74367 16DIP	10	\$1.46
7438	IC DIGITAL 7438 QUAD 2IN NAND 14DIP	2	\$0.67
7445N	IC DIGITAL 7445 16DIP	3	\$1.00
7447	IC DIGITAL 7447 BCD TO 7 SEG DECODER DRIVER 16DIP	5	\$1.45
7474	IC DIGITAL 7474 DUAL D-FLOP 14DIP	3	\$3.13
7475	IC DIGITAL 7475 4 BIT LATCH 16DIP 3008195-00	3	\$1.21
7483N	IC DIGITAL 7483 16DIP OBSOLETE	5	\$0.92
7490	IC DIGITAL 7490 DECADE COUNTER 14DIP	0	\$3.61
74ALS245P	IC DIGITAL 74ALS245 20DIP	2	\$0.35
74ALS273N	IC DIGITAL 74ALS273 20DIP	2	\$1.21
74ALS373N	IC DIGITAL 74ALS373 20DIP	1	\$1.50
74C14	IC DIGITAL 74C14 CMOS HEX INVERTER LAIRD 14DIP	2	\$0.29
74F04N	IC DIGITAL 74F04 14DIP	2	\$0.24
74F08N	IC DIGITAL 74F08 QUAD 14DIP	2	\$0.18
74F157	IC DIGITAL 74F157 16DIP	1	\$0.52
74F240	IC DIGITAL 74F240 20DIP	5	\$0.64
74F299	IC DIGITAL 74F299 20DIP	5	\$5.00
74F374	IC DIGITAL 74F374 FLOP 20DIP	2	\$0.87
74F378	IC DIGITAL 74F378 3696 MEGALANCHE 16DIP	2	\$0.83
74F74N	IC DIGITAL 74F74 D-FLOP 14DIP	2	\$0.32
74H74	IC DIGITAL 74H74 DUAL D FLIP-FLOP 14DIP	3	\$2.25
CD74HCT241E	IC DIGITAL 74HCT241 HIGH SPEED CMOS OCTAL TRISTATE BUFFER 20DIP	2	\$0.69
74LS05	IC DIGITAL 74LS05 14DIP	2	\$0.27
74LS09	IC DIGITAL 74LS09 14DIP	4	\$0.23
74LS10	IC DIGITAL 74LS10N 14DIP	3	\$0.22
74LS11	IC DIGITAL 74LS11N AND GATE 14DIP	3	\$0.28
74LS14N	IC DIGITAL 74LS14 14DIP	2	\$0.40
74LS155	IC DIGITAL 74LS155 16DIP	3	\$0.64
74LS157N	IC DIGITAL 74LS157 MUX 16DIP	4	\$0.68
74LS161N	IC DIGITAL 74LS161 COUNTER 16DIP	3	\$0.54
74LS164N	IC DIGITAL 74LS164 SHIFT REGISTER	10	\$0.41
74LS174N	IC DIGITAL 74LS174 TI 16DIP	3	\$0.27
74LS175N	IC DIGITAL 74LS175 16DIP	4	\$0.57
74LS191	IC DIGITAL 74LS191 16DIP	2	\$0.73
74LS221	IC DIGITAL 74LS221 16DIP	3	\$0.45
74LS241N	IC DIGITAL 74LS241 20DIP	3	\$0.68
74LS251	IC DIGITAL 74LS251 16DIP	2	\$0.44
74LS253N	IC DIGITAL 74LS253 DECODER 16DIP	5	\$0.50
74LS273	IC DIGITAL 74LS273 OCTAL LATCH	2	\$0.79
74LS30N	IC DIGITAL 74LS30 14DIP	9	\$0.22
74LS32N	IC DIGITAL 74LS32 14DIP	3	\$0.33
74LS374	IC DIGITAL 74LS374 20DIP	3	\$0.33
74LS377N	IC DIGITAL 74LS377 20DIP	5	\$0.58
74LS38N	IC DIGITAL 74LS38 14DIP	8	\$0.36
74LS390	IC DIGITAL 74LS390 16DIP	5	\$0.83
74LS86N	IC DIGITAL 74LS86 XNOR	2	\$0.27
74S00	IC DIGITAL 74S00 14DIP	11	\$0.37
74S02	IC DIGITAL 74S02 QUAD 2IN NOR 14DIP	4	\$0.10
74S04	IC DIGITAL 74S04 14DIP	2	\$1.21
74S08	IC DIGITAL 74S08 14DIP	7	\$0.38
74S10	IC DIGITAL 74S10 14DIP	4	\$0.51
74S11N	IC DIGITAL 74S11 AND GATE 14DIP	7	\$0.44
74S112	IC DIGITAL 74S112 16DIP	2	\$0.78



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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
74S138N	IC DIGITAL 74S138 16DIP	4	\$1.50
74S139N	IC DIGITAL 74S139 DUAL 2 TO 4 DECODER DEMUX 16DIP	5	\$1.25
74S151N	IC DIGITAL 74S151 640-100048-001 16DIP	2	\$2.34
74S157	IC DIGITAL 74S157 MUX QUAD 2 TO 1 16DIP	10	\$1.33
93S16DC	IC DIGITAL 74S161 93S16 16DIP	3	\$5.62
74S175N	IC DIGITAL 74S175 D-TYPE FLIP-FLOP 16DIP	6	\$0.71
74S194	IC DIGITAL 74S194 16DIP	3	\$2.30
74S20	IC DIGITAL 74S20 14DIP	3	\$1.01
74S22N	IC DIGITAL 74S22 14DIP	3	\$1.24
74S225N	IC DIGITAL 74S225N FIFO 20DIP	1	\$3.27
74S241N	IC DIGITAL 74S241 20DIP	5	\$2.45
74S280N	IC DIGITAL 74S280 14DIP	10	\$0.48
74S32N	IC DIGITAL 74S32 OR GATE 14DIP	4	\$0.50
74S374N	IC DIGITAL 74S374 D-FLOP 20DIP	10	\$1.50
74S38N	IC DIGITAL 74S38 TI 14DIP	7	\$1.05
74S51	IC DIGITAL 74S51 AND-OR INVERTER 14DIP	2	\$1.10
74S64N	IC DIGITAL 74S64 14DIP	5	\$0.45
74S74	IC DIGITAL 74S74 FLIP FLOP 14DIP	55	\$0.60
74S86N	IC DIGITAL 74S86N 14DIP	2	\$0.75
75116	IC DIGITAL 75116 LATCH	1	\$3.07
75451N	IC DIGITAL 75451 8DIP	2	\$0.56
N8234	IC DIGITAL 8234	4	\$5.38
937/MC837P	IC DIGITAL 837 DTL 14DIP	5	\$2.28
74259N	IC DIGITAL 8-BIT ADDRESSABLE LATCH 16DIP	4	\$1.95
74F251	IC DIGITAL 8-INPUT MUX 16DIP	5	\$0.49
74F151	IC DIGITAL 8-INPUT MUX 16DIP	2	\$0.95
N8T20	IC DIGITAL 8T20	3	\$4.13
DM9601	IC DIGITAL 9601 MULTIVIBRATOR 14DIP	7	\$0.50
74S181N	IC DIGITAL ALU DUAL 5-INPUT NOR 24DIP	5	\$2.95
AM26S10	IC DIGITAL AM26S10	4	\$1.78
AM26S11	IC DIGITAL AM26S11	6	\$4.25
74H51N	IC DIGITAL AND -OR- INVERT GATE 14DIP	3	\$0.54
DM7451N	IC DIGITAL AND-OR-INVERT GATE 14DIP	6	\$0.40
74181	IC DIGITAL ARITH LOGIC UNIT GEN 24DIP	5	\$2.49
74HC161	IC DIGITAL BINARY COUNTER SN74HC161N 16DIP	6	\$1.06
CD4069	IC DIGITAL CMOS INVERTER MU4069 MC14069 14DIP	1	\$0.40
74LS193N	IC DIGITAL COUNTER SYNCHRONOUS 4-BIT UP/DOWN 16DIP	7	\$0.50
74S251N	IC DIGITAL DATA SEL/MUX 16DIP	7	\$1.44
74F153	IC DIGITAL DUAL 4-INPUT MUX 16DIP	2	\$0.75
74F253	IC DIGITAL DUAL 4-INPUT MUX 16DIP	9	\$0.83
74F20	IC DIGITAL DUAL 4-INPUT NAND GATE 14DIP	2	\$0.25
74H108N	IC DIGITAL DUAL J-K FLIP FLOP 14DIP	3	\$2.30
74F109	IC DIGITAL DUAL J-K FLIP/FLOP 16DIP	2	\$0.70
74S174	IC DIGITAL HEX D 74S174 FLIP FLOP 16PIN DIP	5	\$0.98
74S05N	IC DIGITAL HEX INVERTER 14DIP	7	\$0.43
75160BN	IC DIGITAL INTERFACE 20DIP	2	\$3.98
CD4019	IC DIGITAL MC14019	2	\$2.12
74F258N	IC DIGITAL QUAD 2 INPUT MUX 16DIP	5	\$0.54
74F158	IC DIGITAL QUAD 2-INPUT MUX 16DIP	5	\$0.55
74S132N	IC DIGITAL QUAD 2-INPUT POS-NAND 14DIP	5	\$2.52
74LS257N	IC DIGITAL QUAD 2-LINE TO 1-LINE DATA SELECTOR/MUX	2	\$0.38
74LS258N	IC DIGITAL QUAD 2-LINE TO 1-LINE DATA SELECTOR/MUX 16DIP	10	\$0.41
74LS158N	IC DIGITAL QUAD 2-LINE TO 1-LINE DATE SELECTOR/MUX 16DIP	3	\$0.60
74125N	IC DIGITAL QUAD BUS BUFFER TRI-STATE 14DIP	3	\$0.55
74LS245D	IC DIGITAL SURFACE MOUNT	4	\$0.45
74LS244DW	IC DIGITAL SURFACE MOUNT	6	\$0.78
74H11	IC DIGITAL TRIPLE 3 IN NAND 14DIP	11	\$0.59
74F11	IC DIGITAL TRIPLE 3-INPUT AND GATE 14DIP	4	\$0.43
STA401A	IC DIGITAL VERTICAL 10PIN	2	\$3.93
UPA54HA	IC DIGITAL VERTICAL 7PIN	3	\$1.25
74S258N	IC DIGITAL 74S258 16DIP	6	\$0.80
CD4094BE	IC DIGITAL 4094 MC14094 16DIP	3	\$3.15
LM723N	IC DIP 14P 14PIN	3	\$1.40
LM348	IC DIP 14P 14PIN	3	\$3.96
LM310N	IC DIP 8DIP	5	\$2.06
WD2793A	IC DISK CONTROLLER 40DIP	2	\$13.00
7441N	IC DISPLAY DRIVER 50V 16DIP	2	\$3.96
UCN5800A	IC DISPLAY DRIVER. USE PRECISION FILTER	1	\$4.41
74S161N	IC DM74S161N	3	\$0.15
4P1024	IC DRAM 1MB 18DIP	3	\$6.00
RM401	IC DRAM 4164-10 64X1 100NS 16DIP	2	\$1.76

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
RM508	IC DRAM 4464-10 64X4 100NS 18DIP	4	\$2.42
41256-80	IC DRAM MEMORY RAM 8ONS 256KX1 41256 16DIP	11	\$1.69
74HC374	IC DRIVER	2	\$0.90
MC1488L	IC DRIVER 1488 14DIP	4	\$0.75
DS14C88N	IC DRIVER 14C88 QUAD CMOS LINE DRIVER RS232 14DIP	2	\$2.39
HCF40106BEY	IC DRIVER 14DIP	2	\$0.86
74LS156	IC DRIVER 16DIP	4	\$0.27
AM26LS31	IC DRIVER 26LS31 QUAD HIGH SPEED DIFFERENTIAL LINE DRIVER 16DIP	12	\$1.00
CD4051BE	IC DRIVER 4051 AUTECH MC14051 16DIP	3	\$0.48
STK6982H	IC DRIVER 6982	2	\$26.00
7417	IC DRIVER 7417 14DIP	2	\$0.65
74F244	IC DRIVER 74F244 20DIP	7	\$0.88
74F245	IC DRIVER 74F245 20DIP	2	\$0.87
74LS125	IC DRIVER 74LS125 TRI-STATE BUFFER 14DIP	2	\$1.72
74LS240N	IC DRIVER 74LS240 20DIP	3	\$0.62
74LS245	IC DRIVER 74LS245 OCTAL 1820-2075 20DIP	15	\$0.75
74S37N	IC DRIVER 74LS37 14DIP	2	\$0.62
74LS373N	IC DRIVER 74LS373 20DIP	4	\$0.77
74S240N	IC DRIVER 74S240 OCTAL INVERTING BUS/LINE DRIVER 20DIP	3	\$1.95
75150P	IC DRIVER 75150 8DIP	6	\$0.71
75183N	IC DRIVER 75183 DIFFERENTIAL 14DIP	4	\$1.22
1820-2715	IC DRIVER 75447 8DIP	3	\$3.30
75451	IC DRIVER 75451 8DIP	1	\$0.67
75452N	IC DRIVER 75452 8DIP	6	\$0.60
75454N	IC DRIVER 75454 8DIP	3	\$0.70
75462N	IC DRIVER 75462 8DIP	2	\$1.15
DS8640N	IC DRIVER 8640 DEC 14DIP	3	\$0.80
SK9093	IC DRIVER 9093 16DIP	1	\$3.90
UA9636ARC	IC DRIVER 9636 RS232 8DIP	2	\$1.28
UA9639ATC	IC DRIVER 9639 RS422 RS423 8DIP	4	\$1.64
1820-3297	IC DRIVER CMOS 20DIP	2	\$4.60
SN75175D	IC DRIVER SOIC SURFACE MOUNT	6	\$1.95
HA13406W	IC DRIVER SPINDLE SPINDLE MOTOR MOTOR SEAGATE ST251 ST-251	4	\$5.47
74F153D	IC DRIVER SURFACE MOUNT	4	\$0.75
75115N	IC DS75115N	5	\$2.10
74H21	IC DUAL 4 IN NAND 14DIP	5	\$1.50
74H20	IC DUAL 4 IN NAND 14DIP	3	\$1.79
74H40	IC DUAL 4 IN NAND 14DIP	17	\$1.80
LM1877N	IC DUAL AODIO AMP. 2W 14DIP	1	\$2.84
WD-16C452-JT00	IC DUAL ASYNCHRONOUS COMMUNICATIONS ELEMENT	15	\$3.50
74LS74N	IC DUAL FLIP FLOP 14DIP	1	\$1.67
HCPL-2531	IC DUAL OPTOCOUPLER 8DIP	2	\$2.50
LM325N	IC DUAL VOLTAGE REGULATOR	2	\$12.98
MC68681	IC DUART 68681 TEKTRONIX 40DIP	3	\$6.15
VL16C452-QC	IC DUART SURFACE MOUNT	1	\$15.17
500-374	IC DUART XR88C681	3	\$32.61
SK3543	IC ECG912 3086N	2	\$5.18
74LS148	IC ENCODER 8-LINE TO 3-LINE	4	\$0.98
MB502AZ	IC ENCODER/DECODER 24DIP	1	\$57.75
27128	IC EPROM 27128 250NS 28DIP	2	\$6.16
2716	IC EPROM 2716 24DIP	1	\$3.95
2732A-20	IC EPROM 2732 24DIP	1	\$4.25
156-2140-00	IC EPROM 2817A TEK 4109 4107 NMOS 2KX8	3	\$40.00
640-700195-001	IC EPROM 28DIP	1	\$275.00
640-700195-002	IC EPROM 28DIP	1	\$275.00
27256-15	IC EPROM 28DIP 27256-15 PC-XT/AT	4	\$5.39
27C256-20	IC EPROM 32KX8 28DIP	4	\$4.30
23-333E7-00	IC EPROM AXP ALPHA 28DIP	1	\$6.00
AM7990	IC ETHERNET 48DIP	1	\$64.00
MC74HCT534ADW	IC FLIP/FLOP SURFACE MOUNT	3	\$1.45
STK7308	IC FUNCTION REGULATOR STK7308	3	\$10.42
1820-2548	IC GBIP HP150	2	\$29.00
MC14511B	IC GEM PACK NO. 4511 16DIP	6	\$1.18
801379-002	IC HAMMER DRIVE	3	\$22.00
74174	IC HEX D-FLOP 16DIP	102	\$1.00
7404	IC HEX INVERTER 7404 DIGITAL 14DIP	0	\$1.39
1820-1778	IC HEX SCHMITT TRIGGER 74C914 14DIP	4	\$2.80
74F175	IC HEXIDECIMAL QUAD D-TYPE FLIP FLOP 16DIP	1	\$0.63
TDA2594	IC HORIZONTAL BLANKING 18DIP	4	\$16.85
SK3255	IC HORIZONTAL DEFLECTION 1391 ECG851 NTE851 8DIP	4	\$3.21
ECG7001	IC HORIZONTAL TDA2593 SMU CM4531 16DIP	2	\$6.78

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
HA11235	IC HORIZONTAL VERTICAL PROCESSOR ECG1550 20DIP	6	\$7.42
1820-3430	IC HP 9816 40DIP	1	\$17.00
1820-3300	IC HP 9816 40DIP	1	\$55.00
1820-0956	IC HP1000F	5	\$11.00
1TL2-0001	IC HP1000L + 1200-09	1	\$116.50
1858-0099	IC HP2225 16DIP	5	\$2.20
1858-0047	IC HP2671G 16DIP	3	\$1.20
1816-0598	IC HP54470B	1	\$13.00
74S162	IC HP9835 16DIP	5	\$3.15
1826-0174	IC HP9845B 14DIP	4	\$2.15
1820-0125	IC HP9845B CAN	5	\$7.75
1826-0051	IC HP9845B TL514CN	5	\$2.25
02250-65504	IC HPC 1818-1659 ROM 24DIP	1	\$41.00
1820-2547	IC HPIB 1820-2547 22DIP	1	\$11.50
1820-3431	IC HPIB 1820-3431 20DIP	1	\$13.00
AD712JN	IC I.C. DUAL OP-AMP ANALOG DEVICES 8DIP	1	\$3.43
26942235	IC I.C. OP AMP LT1012CN8 MATCHED PAIR 8DIP	1	\$19.50
OP42FZ	IC I.C. OP-AMP LOW NOISE ANALOG DEVICES 8DIP	1	\$6.41
DG413DY	IC I.C. SOIC PACKAGE. QUAD ANALOG SWITCH. HARRIS SEMI CONDUCTOR	2	\$3.00
P8243	IC I10 EXPANDER 8243 24DIP	3	\$5.60
AD524CD	IC INSTRUMENT AMPLIFIER 16DIP	2	\$61.94
MC1489L	IC INTERFACE 1489 RS-232 14DIP	5	\$0.75
AM26LS29	IC INTERFACE 16DIP	5	\$1.31
CD4052	IC INTERFACE 4052 CMOS SK4052B MC14052 16DIP	2	\$0.79
D8255AC-2	IC INTERFACE 40DIP	2	\$9.22
411AV3	IC INTERFACE 6DIP	5	\$0.58
74164N	IC INTERFACE 74164 8-BIT SHIFT REGISTER 14DIP	3	\$0.35
1820-1655	IC INTERFACE 74C906 14DIP	4	\$1.50
75161N	IC INTERFACE 75161 20DIP	2	\$4.34
DS96174	IC INTERFACE 75174 16DIP	2	\$2.83
P8291A	IC INTERFACE 8291 GPIB INTERFACE INTEL 40DIP	2	\$16.00
DS8641N	IC INTERFACE 8641 16DIP	8	\$1.78
AM7992BDC	IC INTERFACE AM7992BDC 24DIP	2	\$13.25
75108AN	IC INTERFACE LINE RCVR -DIFFERENTIAL 14DIP	4	\$1.50
8T97P	IC INTERFACE MC8T97P MC6887 16DIP	5	\$0.71
75150M	IC INTERFACE PLCC 8DIP	4	\$0.89
75327J	IC INTERFACE QUAD MEMORY DRIVER 16DIP	5	\$4.15
75175D	IC INTERFACE SOIC SURFACE MOUNT	2	\$2.82
MC3486D	IC INTERFACE SURFACE MOUNT	4	\$1.60
MC3487D	IC INTERFACE SURFACE MOUNT	5	\$1.60
82A305	IC INTERFACE SURFACE MOUNT	1	\$6.00
Z80A-SIO-2	IC INTERFACE Z80A-SIO SERIAL I/O TVD970 40DIP	3	\$4.49
74LS368AN	IC INTERFACE.74LS368 16DIP	2	\$0.68
74HC04	IC INVERTER 14DIP	3	\$0.32
1820-2921	IC INVERTER CMOS 14DIP	2	\$2.80
1990-0429	IC ISOLATOR	2	\$11.00
1990-0608	IC ISOLATOR	3	\$11.00
P8279-5	IC KEYBOARD CONTROLLER	2	\$2.49
8748	IC KEYBOARD EPROM 8748 40DIP	1	\$9.50
74LS75N	IC LATCH 74LS75 16DIP	3	\$0.39
74S373N	IC LATCH 74S373 OCTAL	4	\$2.23
MC14504BCP	IC LEVEL SHIFTERS 16DIP	10	\$0.55
74ALS244	IC LINE DRIVER 74ALS244 20DIP	1	\$0.37
MC3448AP	IC LINE DRIVER HPCA600 16DIP	6	\$11.47
MC3446N	IC LINE TRANSCEIVER 3446 16DIP	5	\$5.50
156-0096-02	IC LINEAR	1	\$3.00
MC12060P	IC LINEAR 12060 16DIP	4	\$4.60
UC3525AN	IC LINEAR 3525 UNITRODE 16DIP	2	\$1.74
156-1272-00	IC LINEAR NE5532 8DIP	2	\$6.00
ECC1862	IC LINEAR TDA1675	2	\$2.80
156-0015-00	IC LINEAR TEK 4014-1	5	\$1.00
648-100012-001	IC LM320KC-5 REGULATOR	4	\$3.45
74LS107	IC LOGIC 74LS107 14DIP	2	\$0.37
Y441800801	IC M64102BA 28DIP	1	\$64.00
1820-3430	IC MAGIC P8041 40DIP	1	\$11.00
6450211	IC MATH COPROCESSOR 80287 IBM8286127	1	\$251.00
83S87-25	IC MATH COPROCESSOR CO-PROCESSOR 80387 CYRIX 25MHZ	2	\$74.95
CD4050	IC MC14050 16DIP	3	\$0.38
MC74HC14AN	IC MC74HC14AN 14DIP	5	\$0.25
MC74HC42N	IC MC74HC42N 16DIP	5	\$0.48
156-0716-00	IC MCM6810 TEK	4	\$10.50

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
ECG3042	IC MCT2 OPTOISOLATOR SK2042 ECG3042 6DIP	3	\$1.50
09135-85500	IC MCU	1	\$15.00
D2114AL-1	IC MEMORY	2	\$5.20
44256-8	IC MEMORY 44256 80NS 256X4 DRAM RAM 20DIP	11	\$4.50
ECG6664	IC MEMORY 64K M5K4164AP-15	1	\$17.15
DS1232	IC MEMORY BATTERY BACKUP 8DIP	1	\$2.85
TMS4464-12	IC MEMORY DYNAMIC RAM 18DIP	19	\$1.75
SN74ALS229BN	IC MEMORY FIFO 20DIP	2	\$9.99
AM2149-35	IC MEMORY NMOS 1KX4 18DIP	10	\$10.85
D7810HG-36	IC MICRO CONTROLLER DOUBLE ROW OF 16PIN TOTAL 64PIN	2	\$8.00
FG3000-270-100	IC MICRO PROCESSOR U-4 FOR BECKMAN DMM'S BECKMAN 310 3010	1	\$31.50
P8085AH	IC MICROPROCESSOR 40DIP	1	\$5.50
8080A	IC MICROPROCESSOR 8080A	1	\$11.86
P8088	IC MICROPROCESSOR 8088 40DIP	6	\$4.29
8031	IC MICROPROCESSOR CPU WITH 128 X 8 RAM AND I/O 40DIP	2	\$0.75
640-200078-001	IC MODCOMP 16DIP	2	\$3.00
640-100107-001	IC MODCOMP 25S10 16DIP	4	\$13.00
1818-0215	IC MOS 16DIP	2	\$19.00
1818-0115	IC MOS HP9830A	2	\$26.00
MK4332D-3	IC MOSTEK	32	\$6.95
MC3486P	IC MOT 16DIP	4	\$1.02
MC3487P	IC MOT 16DIP	10	\$1.96
74151	IC MULTIPLEXER 74151 16DIP	9	\$1.20
74F257N	IC MULTIPLEXER 74F257 QUAD DATA SELECTOR 16DIP	2	\$0.60
2690016	IC MUX 16DIP	6	\$7.20
74S158N	IC MUX 74S158 16DIP	5	\$0.87
640-100085-001	IC N82S10 MODCOMP 16DIP	2	\$37.00
8T26	IC N8T26AN	2	\$1.20
29042105	IC NEFF 16DIP	1	\$16.30
29042108	IC NEFF 620600	2	\$16.50
26942077	IC NEFF CAN	2	\$5.40
2640005	IC NEFF CONTROLLER CED 620600 28DIP	1	\$54.55
74ALS240	IC OCTAL BUFFER 74ALS240 20DIP	4	\$0.99
74HCT245N	IC OCTAL BUS TRANSCEIVER THREE-STATE NON-INVERTING 20DIP	2	\$0.74
393	IC OP AMP	7	\$1.00
LF356AH	IC OP AMP 356 CAN	3	\$3.22
MC1403	IC OP AMP 8DIP	9	\$3.00
AD532KH	IC OP AMP CAN	2	\$49.50
UA726HC	IC OP AMP CAN	2	\$78.00
LM308AN	IC OP AMP DIP 8DIP	4	\$0.83
26942242	IC OP AMP HI SPD LM6361N 8DIP	2	\$5.00
ECG925	IC OP AMP INSTRUMENTATION CAN	1	\$12.50
2690030	IC OP AMP JFET LF441ACN 8DIP	1	\$11.40
269420302	IC OP AMP NEF 620 100 200	5	\$6.90
LM709CN	IC OP-AMP	2	\$1.34
CA3140T	IC OP-AMP	2	\$2.53
OP-27GZ	IC OP-AMP 8DIP (DO NOT SUB)	2	\$3.89
1826-1859	IC OP-AMP EL-2039 14DIP	1	\$14.50
LM318N	IC OPAMP HIGH SLEW RATE DIP 8DIP	4	\$1.07
2690027	IC OP-AMP LF356BN DIP 8DIP	2	\$5.00
24370-000	IC OP-AMP OP AMP 8DIP	2	\$11.75
LH0041CG	IC OPAMP OP AMP CAN	3	\$17.80
INA114BP	IC OPERATIONAL AMPLIFIER OP AMP 8DIP	1	\$11.75
058 146-001	IC OPTICAL COUPLED ISOLATION AMPLIFIER	1	\$110.00
SK2041	IC OPTO PHOTOTRANS ISOLATOR	2	\$1.89
156-0399-00	IC OPTO-ISOLATOR 156-0399-00	2	\$1.65
HCPL2630	IC OPTO-ISOLATOR 2630 8DIP	3	\$2.75
6N137	IC OPTOISOLATOR 6N137 8DIP	4	\$3.30
6N138	IC OPTOISOLATOR 8DIP	1	\$1.36
TL494CN	IC OPTOISOLATOR TL494 TI	2	\$0.89
640-100140-004	IC PAL	1	\$7.00
640-100140-005	IC PAL	1	\$7.00
640-100140-003	IC PAL	2	\$7.00
640-100140-001	IC PAL 1624	1	\$2.00
PAL16L8ACN	IC PAL 20DIP	3	\$1.67
640-700282-003	IC PAL 20DIP	2	\$7.00
640-700641-002	IC PAL 20DIP	4	\$18.73
640-700843-001	IC PAL 20DIP	5	\$18.73
16L8U1	IC PAL U1 MEGALANCHE 3696 20DIP	1	\$38.00
16L8U121E	IC PAL U121E MEGALANCHE 3696 20DIP	2	\$38.00
16L8U137	IC PAL U137 MEGALANCHE 3696 20DIP	1	\$38.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
16L8U138	IC PAL U138 MEGALANCHE 3696 20DIP	1	\$38.00
16L8U139	IC PAL U139 MEGALANCHE 3696 20DIP	1	\$38.00
16L8U140	IC PAL U140 MEGALANCHE 3696 20DIP	1	\$38.00
16L8U19E	IC PAL U19E MEGALANCHE 3696 20DIP	1	\$38.00
18R8U23	IC PAL U23 MEGALANCHE 3696 20DIP	1	\$38.00
16R4U27	IC PAL U27 MEGALANCHE 3696 20DIP	1	\$38.00
16R6U28	IC PAL U28 MEGALANCHE 3696 20DIP	1	\$38.00
16L8U35E	IC PAL U35E MEGALANCHE 3696 20DIP	1	\$38.00
16L8U36E	IC PAL U36E MEGALANCHE 3696 24DIP	2	\$38.00
16R4U38	IC PAL U38 MEGALANCHE 3696 20DIP	4	\$38.00
20X8U60	IC PAL U60 MEGALANCHE 3696 24DIP	1	\$38.00
20X10U82	IC PAL U82 MEGALANCHE 3696 24DIP	1	\$38.00
640-700121-000	IC PAL-CACHE	1	\$40.00
640-700122-000	IC PAL-CACHE	1	\$40.00
640-700128-00	IC PAL-CACHE	1	\$40.00
640-700117-004	IC PAL-ISP-1	1	\$40.00
26742241	IC PEEL PGM	2	\$9.00
AM26LS30JC	IC PLCC	2	\$4.82
CD4046	IC PLL MC14046 16DIP	2	\$1.07
UC3842	IC PMR MODULE 8DIP	2	\$0.99
1MC1-0001	IC PRINTER CONTROL 40DIP	1	\$39.00
80287-6	IC PROCESSOR MATH CO-PROCESSOR	1	\$304.00
76582	IC PROCESSOR 40MHZ 386DX-40	1	\$40.00
MC68000P12	IC PROCESSOR 64DIP	2	\$8.40
MC6800S	IC PROCESSOR 6800 40DIP	2	\$9.05
MC68020RC16E	IC PROCESSOR 68020 MOTOROLA	1	\$154.55
68HC000P12	IC PROCESSOR 68HC000P12 MPU 12MHZ 64DIP	2	\$18.95
80286-8	IC PROCESSOR 80286 PGA PIN GRID ARRAY	2	\$61.50
80286-12	IC PROCESSOR 80286 PLCC 12MHZ AT SURFACE MOUNT	2	\$25.00
N80286-10	IC PROCESSOR 80286 SURFACE MOUNT	1	\$14.00
R80286-8	IC PROCESSOR 80286-8 SURFACE MOUNT	1	\$19.00
80287-XL	IC PROCESSOR 80287-XL MATH COPROCESSOR PC AT INTEL	2	\$74.95
N8032AH	IC PROCESSOR 8032 SUFACE MOUNT	2	\$3.90
Y422800201	IC PROCESSOR 8049 MX80 40DIP	1	\$52.50
8087-2	IC PROCESSOR 8087-2 COPROCESSOR 40DIP	1	\$114.95
Z80A-SIO-0	IC PROCESSOR SERIAL Z0844004PSC 40DIP	1	\$3.30
TC53257P	IC PROM	2	\$25.00
AM27S29APC	IC PROM 27S29 20DIP	2	\$3.60
118-0973-00	IC PROM 4109 TEK	1	\$17.00
108101-200	IC PROM KEYBOARD ITL 640 40DIP	1	\$47.50
640-100119-057	IC PROM MOD DBIOP 16DIP	1	\$32.00
961055-001A	IC PROM READ AMP 22DIP	2	\$41.00
341-0768	IC PROM ROM APM APPLE QUANTUM 40MB 80MB 341-0768 TA201 TA-201	2	\$4.50
Y440800611	IC PROM Y440800611 FX85	2	\$52.80
Y442800701	IC P-ROM(FS5-A4) 28DIP	1	\$117.00
74H01	IC QUAD 2 IN NAND OPEN COLLECTOR DIGITAL 14DIP	2	\$1.15
74C00	IC QUAD 2 INPUT NAND GATE 14DIP	2	\$1.95
ULN-2068B	IC QUAD DARLINGTON SWITCH	6	\$1.70
TL074CN	IC QUAD OP AMP	4	\$1.19
RC4136N	IC QUAD OPAMP ECG997 SK9172 14DIP	2	\$4.50
IMS1420P45	IC RAM 1420P45 32/85WCS 20DIP	1	\$3.00
MCM1423P45	IC RAM 1423P45 STATIC 32/85 1980 4X4K 20DIP	5	\$5.80
1818-1396	IC RAM 16DIP	2	\$10.00
74S289N	IC RAM 16X4 STATIC 16DIP	9	\$3.20
MBSC10008-7015Z	IC RAM 1MB ZIP	5	\$6.60
74S201N	IC RAM 256X1 STATIC 16DIP	2	\$5.10
UPD8155HC-2	IC RAM 40DIP	1	\$3.80
416/4116	IC RAM 4116 16K MEMORY CHIP 16DIP	11	\$1.49
MK4116J-3	IC RAM 4116 16KX1 16DIP	30	\$1.59
4116-150	IC RAM 4116 DYNAMIC 16K 150NS 16DIP	28	\$1.19
41256-10	IC RAM 41256 DYNAMIC IC 100NS	13	\$1.75
MK4564N-15	IC RAM 4164-150 SEE SMG FIRST 4164-15N 16DIP	50	\$1.49
TMS4416	IC RAM 4416 DYNAMIC RAM 18DIP	3	\$6.95
CXK5864PN-12L	IC RAM 5864 STATIC SONY 28DIP	1	\$10.00
6116P-4	IC RAM 6116P-4 CMOS 16K 200NS 24DIP	2	\$2.69
6264	IC RAM 6264 100NS 28DIP 8192X8 HM6264-10 AM9988 MB81C78 CDM6164/CDM6264 MCM6164	2	\$3.16
4164-100	IC RAM 64K 100NS 16DIP	9	\$1.79
4164-15N	IC RAM 64KX1	32	\$2.59
6665	IC RAM 64KX1	529	\$2.59
8286139	IC RAM 8286139 128K IBM AT 4128-15 PIGGYBACK 16DIP	10	\$3.49
KM41C1000P-10	IC RAM D 1MEGX1 18DIP	3	\$3.85

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2102FDC	IC RAM MEMORY 1K X 1BIT 16DIP	3	\$4.35
X2444	IC RAM NON-VOLITAL 8DIP	2	\$6.95
6550	IC RAM PET2001 22DIP	2	\$15.00
156-1635-00	IC RAM STATIC 256X4 DM10422A TEK 4125 COLOR MAP	1	\$15.00
MB81C68A-25PZ	IC RAM STATIC FUJITSU 4KEY	4	\$12.00
CD4066AE	IC RCA CD4066BE MC14066 14DIP	2	\$0.47
75107A	IC RECEIVER	48	\$0.81
MC1458CP1	IC RECEIVER 1458 RS232 8PIN DIP	5	\$0.63
DS14C89N	IC RECEIVER 14C89 QUAD CMOS LINE RECEIVER RS232 14DIP	1	\$1.19
AM26LS32	IC RECEIVER 2632 DIFFERENTIAL 16DIP	12	\$0.82
MC3437P	IC RECEIVER 3437 DS8837 N8T37 16DIP	2	\$2.18
75141P	IC RECEIVER 75141 SEMI 8DIP	6	\$3.40
75154N	IC RECEIVER 75154 RS232C 16DIP	4	\$1.15
75182N	IC RECEIVER 75182 DIFFERENTIAL 14DIP	5	\$1.22
MC10216L	IC RECEIVER TRIPLE LINE 16DIP	2	\$3.44
75189AN	IC RECIEVER 75189 MC1489 14DIP	2	\$2.14
STK6722	IC REGULATOR	1	\$12.56
X440759820	IC REGULATOR	1	\$16.00
LM340LAZ-5.0	IC REGULATOR +5V TO-92 CAN	2	\$0.85
LM305H	IC REGULATOR 305 4.5V-50V CAN	2	\$2.75
LM317T	IC REGULATOR 317 LM317	2	\$0.61
LM317K	IC REGULATOR 317 TO-3 ADJUSTABLE	2	\$6.95
LM337T	IC REGULATOR 337	3	\$0.80
LM340T-12	IC REGULATOR 340	2	\$0.40
7805	IC REGULATOR 340K5 7805K -5V TO-3 CAN TYPE	3	\$4.12
TL431CLP	IC REGULATOR 431CLP TO92	2	\$0.39
LM320T-5.0	IC REGULATOR -5V	3	\$1.15
SK10087	IC REGULATOR 5V 2A ECG1934X	4	\$6.85
SK3591	IC REGULATOR 5V ECG960 TO-220 LM340T-5	3	\$0.48
LM723H	IC REGULATOR 723 MC1723G CAN	5	\$2.35
STK7563F	IC REGULATOR 7563	2	\$23.19
MC7805CT	IC REGULATOR 7805	3	\$1.50
MC7808CK	IC REGULATOR 7808	12	\$2.00
MC7812CT	IC REGULATOR 7812 12V 1A ECG966	2	\$3.93
LM340T-15	IC REGULATOR 7815T 15VDC +	2	\$0.35
MC7912T	IC REGULATOR 7912	2	\$0.73
LM320T-15	IC REGULATOR LM320T -15V	2	\$1.38
MC7906CT	IC REGULATOR LM320T-6	6	\$1.87
LM323K	IC REGULATOR LM323 5V 3A CAN	2	\$5.50
648-100008-001	IC REGULATOR LM340KC-5	3	\$3.00
LM723CN	IC REGULATOR LM723CN 14DIP	7	\$0.25
M51978P	IC REGULATOR S7001 PIONEER MBI 14DIP	1	\$3.60
HSSR-8200	IC RELAY FET SWITCH 4DIP	16	\$2.95
619483	IC REPLACEMENT KIT FOR U-202	1	\$49.42
742221	IC REPLACEMENT KIT FOR U-202 40DIP	3	\$44.00
AD536AJH	IC RMS TO DC CONVERTER	2	\$22.50
6330 CN-13	IC ROM	1	\$5.00
09135-85501	IC ROM	1	\$15.00
1818-1898	IC ROM 9845B 24DIP	3	\$17.50
1820-1690	IC ROM HP2621 24DIP	1	\$19.00
156-0423-00	IC ROM 156-0423-00 TEK 4014-1	1	\$41.00
1818-0832	IC ROM 1818-0832 24DIP	1	\$17.50
1818-0835	IC ROM 1818-0835 24DIP	2	\$17.50
160-2578-00	IC ROM 20DIP	1	\$16.00
23-018E2-00	IC ROM 23-018E2-00 24DIP	1	\$27.00
342-0086A	IC ROM 23512 POSTSCRIPT H2 28DIP	1	\$40.00
342-0088A	IC ROM 23512 POSTSCRIPT H3 28DIP	1	\$40.00
342-0081A	IC ROM 23512 POSTSCRIPT L0 28DIP	1	\$40.00
342-0083A	IC ROM 23512 POSTSCRIPT L1 28DIP	1	\$40.00
342-0085A	IC ROM 23512 POSTSCRIPT L2 28DIP	1	\$40.00
342-0087A	IC ROM 23512 POSTSCRIPT L3 28DIP	1	\$40.00
02250-65501	IC ROM 24DIP	1	\$41.00
02250-65502	IC ROM 24DIP	1	\$41.00
160-0010-03	IC ROM 24DIP	1	\$150.00
342-0363	IC ROM 342-0363 1MB ROM LW+ REV 47 L0	1	\$40.00
342-0364	IC ROM 342-0364 1MB ROM LW+ REV 47 H0	1	\$40.00
342-0365	IC ROM 342-0365 1MB ROM LW+ REV 47 L1	1	\$40.00
342-0366	IC ROM 342-0366 1MB ROM LW+ REV 47 H1	1	\$40.00
342-0367	IC ROM 342-0367 1MB ROM LW+ REV 47 L2	1	\$40.00
342-0368	IC ROM 342-0368 1MB ROM LW+ REV 47 H2	1	\$40.00
342-0369	IC ROM 342-0369 1MB ROM LW+ REV 47 L3	1	\$40.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
342-0370	IC ROM 342-0370 1MB ROM LW+ REV 47 H3	1	\$40.00
1818-1611	IC ROM 6116P-3 24DIP	2	\$11.50
1818-1504	IC ROM 64K HPC 9845 LPU 24DIP	1	\$28.00
1818-1508	IC ROM 64K HPC 9845 LPU 24DIP	1	\$31.00
P8251A	IC ROM 8251 UART INTEL 28DIP	2	\$2.72
640-100127-001	IC ROM 93421 82S116 256X1 16DIP	3	\$28.00
23-99A9-00	IC ROM BOOT UDA50 16DIP	2	\$12.00
21-14524-01	IC ROM DEC VT-100 TERMINALS 14DIP	3	\$15.00
Y440800001	IC ROM EPSON FX 80 16DIP	5	\$14.00
Y440800101	IC ROM EPSON FX80 16DIP	4	\$14.00
Y440800701	IC ROM EPSON FX80 28DIP	1	\$88.00
Y440802501	IC ROM EPSON FX80 28DIP	1	\$88.00
1818-0709	IC ROM HP2621	1	\$13.50
1820-2374	IC ROM HP2621	1	\$23.50
1818-0831	IC ROM HPC 9845 U7 24DIP	1	\$17.50
Y442800101	IC ROM MASKED	2	\$7.00
26642/381B	IC ROM NEFF 730	2	\$25.00
1818-1847	IC ROM PROG 24DIP	1	\$26.00
DS12887	IC RTC 114BYTES DALLAS REAL TIME CLOCK	1	\$10.00
19-25691-01	IC RX/TX 20DIP	2	\$10.00
1820-3089	IC SAC1A	1	\$30.00
AM5380PC	IC SCSI 5380 40DIP	2	\$7.00
Z8530	IC SERIAL COMMUNICATIONS CONTROLLER 8530 GRAPHON 235 40DIP	2	\$11.29
26942093	IC SET NEFF	2	\$59.10
Y440800007	IC SLAVE CPU EPSON FX 80 40DIP	1	\$52.25
14DIP	IC SOCKET 14DIP 14 DIP SOCKET	8	\$0.46
74HC174D	IC SOIC BY MOTOROLA	4	\$0.40
SK9227	IC SPECIAL 1180 TDA1180 ECG1784 16DIP	2	\$5.85
UPC1377C	IC SPECIAL 1377 SON 1402 22DIP	1	\$15.36
NS16450N	IC SPECIAL 16450 IBM 5170 COMM 40DIP	2	\$3.50
1820-2564	IC SPECIAL 1820-2564 40DIP	1	\$24.50
1RD6-6101	IC SPECIAL 1RD6-6101 40DIP	1	\$40.00
1858-0097	IC SPECIAL 2023 HP2225D 16DIP	4	\$2.90
961249-001A	IC SPECIAL 20DIP M990 CIPHER	2	\$40.00
LM355Z	IC SPECIAL 335 MEGALANCHE 3696	1	\$2.00
P82C206	IC SPECIAL 386 VLSI	2	\$10.00
1RD5-6101	IC SPECIAL 40DIP	1	\$29.00
156-1693-02	IC SPECIAL 4125 VERTICAL 12PIN	1	\$12.00
MK48T02B-25	IC SPECIAL 48T025B-25 TIMER IPS-2 BBRAM 24DIP	4	\$15.96
74LS165	IC SPECIAL 74LS165 16DIP	2	\$0.58
QX266P50701	IC SPECIAL 7823 VERI/HORIZ SYNC IC MBI XC1430 XC1410 16DIP	2	\$7.60
LA7850	IC SPECIAL 7850 SANYO 20DIP	2	\$2.86
3120024	IC SPECIAL DAA160 NEFF SOLID STATE SWITCH RELAY 8DIP	4	\$15.00
WD10C20B-PH05	IC SPECIAL DISK CONTROLLER WD10C20B-PH05 28DIP	1	\$29.60
MC1391P	IC SPECIAL HORIZONTAL 8DIP	4	\$0.85
X440170070	IC SPECIAL X440170070 TRANSISTOR ARRAY FX80 16DIP	4	\$8.72
LM324M	IC SURFACE MOUNT	2	\$0.44
791269	IC SURFACE MOUNT	1	\$26.95
83F2855	IC SURFACE MOUNT ULN2004L TSTR ARRAY	8	\$0.72
DG200ACJ	IC SWITCH 14DIP	3	\$3.04
LF13333	IC SWITCH 16DIP	3	\$5.35
SG3526N	IC SWITCHING REGULATOR 3526 SG3526 18DIP	2	\$7.66
370-564-21	IC SYNC SEPARATOR 24DIP	1	\$11.04
LA7824	IC SYNC SEPARATOR COLOR 16DIP	4	\$2.92
74191	IC SYNC UP.DWN COUNTER 16DIP	7	\$1.07
CP266P00501	IC TC40538P SPECIAL 40538 LOW/HIGH RES SWITCH MBI XC1430 XC1410 16DIP	1	\$5.41
NE5561	IC TEK 4105/4109 8DIP	5	\$1.10
156-1799-00	IC TEK 4109 8DIP	4	\$2.45
156-0289-00	IC TEK4014-1 CD4016AF 14DIP	5	\$4.20
156-0407-00	IC TEK4014-1 MC1495L 14DIP	3	\$4.15
NE555V	IC TIMER 555 8DIP	1	\$8.44
LM556CN	IC TIMER 556 14DIP	3	\$0.73
7812	IC TO-3	3	\$3.75
75176	IC TRANCEIVER	3	\$4.00
74F621N	IC TRANSCEIVER 74F621 OCTAL BUS 20DIP	5	\$4.73
74LS652	IC TRANSCEIVER 74LS652 TI 24DIP	3	\$5.22
TPQ3904	IC TRANSISTOR PACK 14DIP	3	\$3.36
74H10	IC TRIPLE 3 IN NAND 14DIP	3	\$0.54
CD4519BCN	IC TSQ CSCAN	3	\$0.47
CD4029BE	IC TSQ CSCAN	3	\$1.40
CD4002CN	IC TSQ CSCAN SK4002B overstock to meet vendor min order	6	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
CD4042BCN	IC TSQ CSCAN SK4042B	3	\$2.00
HEF4070BP	IC TSQ CSCAN SK4070B	6	\$2.00
F4518BPC	IC TSQ CSCAN SK4518B over stock to meet vendor min order	8	\$2.00
CD4520BE	IC TSQ CSCAN SK4520B over stock to meet vendor min order	6	\$2.00
08T14504BCP	IC TTL TO CMOS LEVEL SHIFTER 16DIP	10	\$1.64
SK9194	IC TV HORIZ. OSC. AFC SYNC SEP VERT. OSC. & BLANK PULSE 20DIP GEN. ECG1471	2	\$7.86
156-0361-00	IC UART 156-0361-00 4014 40DIP	2	\$10.50
21-14137-00	IC UART 1865 TR1865 S1602	4	\$11.76
21-18623-00	IC UART 2661-3 28DIP	2	\$7.97
21-12517-00	IC UART 40DIP	1	\$95.00
6551	IC UART 6551 COMMODORE 28DIP	5	\$2.95
21-13937-00	IC UART DEC VT100 40DIP	2	\$17.00
500374	IC UART ITL 640 40DIP	1	\$32.61
X440150790	IC UDA79C	1	\$2.00
9-035-7282-33	IC UDN2981A	2	\$15.20
9-035-7282-34	IC UDN5714M 8DIP	3	\$4.70
83F2849	IC ULN2004A	6	\$0.72
ULN2064B	IC ULN2064 TD62064 QUAD DARLINGTON SWITCH 16DIP	3	\$1.28
ECG1767	IC UPC1498H VERTICAL	2	\$5.60
UPC1378H	IC VIDEO 1378	4	\$2.05
VPA10	IC VIDEO OUTPUT NEY JC2002	1	\$35.99
82A306	IC VLSI 82A306 CONTROL SIGNAL BUFFER CHIPS 386 SURFACE MOUNT	3	\$10.40
82B305	IC VLSI 82B305 DATA BUS INTERFACE CHIPS 386	4	\$14.60
82C301-25	IC VLSI 82C301-25 BUS CONTROLLER CHIPS 386 SURFACE MOUNT	2	\$34.20
82C302-25	IC VLSI 82C302-25 PAGE/INTERLEAVE MEMORY CONTROLLER CHIPS 386	2	\$33.50
LM310J	IC VOLT FOLLOWER 14PIN 14P	6	\$5.50
VFC52BM	IC VOLTAGE TO FREQUENCY CONVERTER	1	\$51.85
WD8250A	IC WESTERN DIGITAL SURFACE MOUNT	2	\$12.90
LF347BN	IC WIDE BANDWIDTH JFET	2	\$2.90
GPD-462	IC WIDE-BAND HIGH-GAIN CAN	4	\$14.30
Z80A-DMA	IC ZILOG Z0841004PSC 40DIP	5	\$4.50
7432	IC. 14DIP	9	\$6.80
544-CA-14-IDP	IDC CONNECTOR 14P DIP	4	\$1.06
52-2-14	IDEAL VALVE	2	\$40.12
522B017010	IDLER TIRE	3	\$3.00
44039	IEEE BOARD	1	\$456.63
318	INDEX CARDS 3X5	2	\$0.49
171041-001	INDEX II/III ASSEMBLY	2	\$9.00
4441	INDEX SHEET SET DIVIDER	9	\$18.54
2SF1173	INDICATOR LAMP GREEN 40MA 10V	1	\$5.36
2SF1175	INDICATOR LAMP WHITE 40MA 10V	1	\$5.36
9100-3473	INDUCTOR	1	\$25.00
4602	INDUCTOR J W MILLER SURGE PROTECTION	9	\$1.47
4237	INK 2 OZ.BOTTLE BLACK FOR STAMP PAD TT-I-556	1	\$1.75
11-2731-01	INK CARTRIDGE ASSY GOULD	4	\$45.00
11-2730-01	INK CARTRIDGE GOULD	1	\$45.00
655-3845-01	INK JET HEAD ASSY	4	\$500.00
30689682-006	INK PAD WHEEL FOR POTENTIOMETER MULTICOLOR	2	\$32.40
4240	INK STAMP PAD RED	3	\$0.70
589B086TDA	INLET SEAL PACKING FV-MET 8"	1	\$14.00
37122686	INPUT BOX	1	\$500.00
RG5-0451	INPUT FEED ASSEMBLY LASERJET4	2	\$119.00
837-0050	INRUSH CURRENT LIMITER	2	\$2.80
141-G-9	INSERTER EXTRACTOR INSERTER-EXTRACTOR D-PIN	2	\$3.00
YW-9090	INSPECTION GLOVES ISSUED 1 PKG. F/STOCK 12 PR./PKG.	10	\$2.95
FORM162	INSTRUMENT/CONTROLLED PROPERTY DELIVERY TICKET	1	\$75.00
342-0226-00	INSUL PLATE TEK 4631	1	\$1.15
342-0217-00	INSUL PROCESSOR TEK 4631	1	\$1.20
0340-0929(EX)	INSULATOR	1	\$19.95
342-0449-01	INSULATOR PLATE	10	\$7.00
41-2996	INTAKE VANE SPRING WELCH 8814A VACUUM PUMP	8	\$5.64
98875K82	INTEGRAL FILTER AND DRYER REPLACEMENT ELEMENT	1	\$21.05
CD4063BE	INTEGRATED CIRCUIT	1	\$3.02
200306	INTEGRATED CIRCUIT LM306H CAN	7	\$6.00
201420	INTEGRATED CIRCUIT MC1420G CAN	2	\$5.00
CD4027BE	INTEGRATED CIRCUIT MFG. HARRIS SEMICONDUCTOR	1	\$0.50
CA3130T	INTEGRATED CIRCUIT OPERATIONAL AMPLIFIER MFG. BY HARRIS SEMICONDUCTOR	1	\$1.67
IPS-2	INTELLIGENT PROCESSOR SYSTEM	1	\$14,000.00
DS1216C	INTELLIGENT SOCKETS	1	\$22.60
98032-66501	INTERFACE 16BIT I/O	3	\$100.00
386-2231-01	INTERFACE ASSEMBLY TEK 4014	1	\$50.00



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
82937-60901(EX)	INTERFACE MODULE	2	\$80.00
82949-60901(EX)	INTERFACE PRINTER	1	\$260.00
699-0273	INVERTER ACTIVE MATRIX GREEN PB170 APM APPLE	3	\$35.10
550-100050-002	IOIS EXPANDER 1111-1	1	\$8,270.00
100007049	IRIDIUM FILAMENT KAVAR TUBE (1 INCH) MKS	1	\$125.00
134571-001	IRONER PRINTRONIX P9012 PAPER	1	\$13.20
MP227A	ISOLATION AMPLIFIER	2	\$139.00
89F812	JACK MOUNTING 50 OHM COMMERCIAL RIGHT-ANGLE PC BOARD & PANEL MOUNT JACK WITH MOUNTING POST	4	\$4.58
5935-258-9897	JACK TIP BLACK BANANA	4	\$0.92
5935-258-9896	JACK TIP RED BANANA	2	\$0.84
2N4091	JFET N-CH. CHOPPER/SE.	3	\$0.95
RG5-0381-260CN	JOB OFFSET ASSY.	2	\$106.14
28F833	JUMPER TYPE 140J-1 FOR 140 SERIES BARRIER BLOCKS	6	\$0.23
45F779	JUMPER TYPE 140J-1 FOR 141 SERIES BARRIER BLOCKS	22	\$0.25
68786-302	JUMPER PINS OPTIONS BERG 2PIN	32	\$0.25
1970-0-2	JUNK WASHER	1	\$27.00
44F8548	KC-89-48 MALE CAP COAXIAL CONNECTOR RG59	1	\$4.26
214-1593-02	KEY CONNECTOR	15	\$0.65
0371-2192	KEY *	2	\$2.00
658-7010	KEY CAPS APM MAC+ MAC2	184	\$1.00
46F3118	KEY SWITCH	1	\$64.20
09830-66531	KEYBOARD	3	\$50.00
09830-66531(EX)	KEYBOARD	1	\$80.00
2183700	KEYBOARD	4	\$200.00
LK001-B	KEYBOARD	1	\$241.00
119-1705-02	KEYBOARD	1	\$270.00
SLA-KBD	KEYBOARD	2	\$300.00
ITL 640KB(1)	KEYBOARD ITL 640	1	\$50.00
SU203	KEYBOARD NCD88K 101 STYLE	1	\$42.00
661-0310	KEYBOARD APM APPLE APPLE DESIGN MAC2CX	1	\$73.00
661-0416	KEYBOARD APM MAC+ PLATINUM (CAN SUBSTITUTE FOR BEIGE.)	1	\$76.50
02620-60024	KEYBOARD ASSEMBLY	3	\$600.00
09845-66532A	KEYBOARD ASSEMBLY LOGIC	1	\$40.00
119-0483-00	KEYBOARD ASSEMBLY TEK 4014	1	\$100.00
70-14653-00	KEYBOARD ASSY	1	\$50.00
70-19004	KEYBOARD ASSY	2	\$77.00
70-09750-2	KEYBOARD ASSY	1	\$100.00
610-1025-02	KEYBOARD ASSY 4014-1 TERM	1	\$495.00
119-1592-02	KEYBOARD ASSY 4105 4109	1	\$315.00
119-1305-03	KEYBOARD ASSY TEK 4114	1	\$340.00
119-1592-02	KEYBOARD ASSY TEK4109	1	\$300.00
70-14653-00P	KEYBOARD ASSY VT100 FOR PARTS	1	\$15.00
8286140	KEYBOARD AT CSA ASSEMBLY	1	\$198.00
KB101	KEYBOARD AT/XT ENHANCED KB106	4	\$16.00
70-15276-01(EX)	KEYBOARD BEZEL ASSY. DEQ LA120 W/KEYPAD	1	\$207.00
8529168	KEYBOARD CABLE/IBM PC	1	\$22.25
119-0483-02	KEYBOARD CKT ASSY	1	\$400.00
101397-001	KEYBOARD COMPAQ	1	\$160.00
101790-001	KEYBOARD COMPAQ 286P W/CABLE	1	\$195.00
100487-001	KEYBOARD COMPAQ DOM YCPS	1	\$190.00
108067-001	KEYBOARD COMPAQ DP286 ENHANCED W/O CABLE	1	\$200.00
09845-04423	KEYBOARD COMPUTER	1	\$75.00
70-14653-00	KEYBOARD DEC VT TERM	1	\$435.00
LK201	KEYBOARD DEQ	1	\$100.00
DEQ LK201(2)	KEYBOARD DEQ VT/VR SERIES	1	\$140.00
DEQ LK201(3)	KEYBOARD DEQ VT/VR SERIES	1	\$140.00
DEQ VT100AAKB	KEYBOARD DEQ VT100AA	1	\$50.00
LK401-AA	KEYBOARD DEQ VT220 LK401-AA	2	\$200.00
DEQ VT278KB	KEYBOARD DEQ VT278	1	\$50.00
DEQ LK201(4)	KEYBOARD DEQ VT320 VT220	1	\$100.00
661-0543	KEYBOARD EXTENDED APM MAC II MAC SE	3	\$151.00
GTW 386KB	KEYBOARD GTW 386 W/ADAPTER CABLE	1	\$50.00
HDS 3200KB	KEYBOARD HDS 3200 SPARE LOANER	1	\$125.00
46021A	KEYBOARD HEWLETT PACKARD HPC 700RX	2	\$82.00
09816-68000	KEYBOARD HP9816	1	\$550.00
46010AA	KEYBOARD HPC	1	\$170.00
HPC 2621PKB	KEYBOARD HPC 2621P	1	\$100.00
HPC 700/22KB	KEYBOARD HPC 700/22 SPARE LOANER	1	\$47.00
103314	KEYBOARD INTECOLOR CT260 ITL	1	\$200.00
DEQ VT100KB	KEYBOARD INTERACTIVE DEQ VT100	1	\$50.00
ITL 640KB(2)	KEYBOARD ITL 640	1	\$50.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
24A	KEYBOARD ITL 8001 24A	1	\$200.00
JCW 386KB	KEYBOARD JCW QIC 386	1	\$32.00
TVI 925KB(L)	KEYBOARD LOANER TVI 925	1	\$50.00
661-0383	KEYBOARD MAC SE	1	\$84.60
NEK NCD19BKB	KEYBOARD NEK NCD19B	1	\$100.00
NEK RT-101	KEYBOARD NEK RT-101 17C NCD17C	1	\$250.00
661-0037	KEYBOARD POWERBOOK 500 SERIES PB520 PB540 APM APPLE	1	\$77.00
OIX6010	KEYBOARD RACKMOUNT INDUSTRIAL	1	\$395.00
021-0006-003	KEYBOARD SCG 4D/70 SN0602290	1	\$275.00
1110001(EX)	KEYBOARD SLA 100XL	2	\$120.00
119-1305-03(EX)	KEYBOARD TEK 4114	1	\$325.00
119-1836-01	KEYBOARD TEX 4129/4111 SERIAL	1	\$150.00
TVI 9220KB	KEYBOARD TVI 9220	1	\$50.00
TVI 925KB	KEYBOARD TVI 925 SPARE LOANER	1	\$50.00
TVI 950KB	KEYBOARD TVI 950 SPARE LOANER	1	\$50.00
TVI 970KB(1)	KEYBOARD TVI 970 SPARE LOANER	1	\$50.00
TVI 970KB(2)	KEYBOARD TVI 970 SPARE LOANER	1	\$50.00
320-1005	KEYBOARD TYPE 4	1	\$30.00
320-1005	KEYBOARD TYPE 4 SNM 4/65	3	\$130.00
GPH GO250KB(1)	KEYBOARD USE WITH TERMINAL GPH GO250(1)	1	\$50.00
GPH GO250KB(2)	KEYBOARD USE WITH TERMINAL GPH GO250(2)	1	\$50.00
1390290	KEYBOARD W/O CABLE IBM 8550	1	\$151.00
661-0731	KEYBOARD WITH KEYPAD AND CABLE ADJUSTABLE APM APPLE	1	\$63.00
DEQ LK201-BA(UT)	KEYBOARD WORDPROCESSING DEQ LK201-BA	1	\$75.00
WYS WY60KB(1)	KEYBOARD WY60	1	\$100.00
70-15765-00H	KEYBOARD/KEYCAP ASSY	2	\$277.00
6447045	KEYCAP SET IBM PS/2	99	\$2.78
5006	KEYLOCK FOR GTW DESKTOP COMPUTER USAGE GTW DESKTOP	2	\$10.00
661-XXXX	KEYPAD NUMERIC	4	\$60.00
70-16653-02	KEYPAD NUMERIC	1	\$70.00
121994-00	KEYSWITCH	6	\$5.00
076-0209	KEYSWITCH ADB MAC2/SE	8	\$2.00
3101-2463	KEYSWITCH HPC 98203B	2	\$8.00
1709	KIMWIPES WIPES TOWEL PAPER TOWEL 15 boxes per case	38	\$2.67
050-2128-00	KIT	1	\$5,605.00
560	KIT FLOPPY DRIVE HEAD CLEANING 5.25" 21144 VERBATIM	8	\$4.50
076-8138	KIT GEAR SET APM LASER HPC	1	\$22.50
45424201	KIT *EBN TO KEBN PA3A1A	1	\$595.00
93-02640-00	KIT ALIGNMENT CDC RK07 RM03	1	\$439.00
89F342-K	KIT ALIGNMENT CEI F880 HEAD	1	\$55.10
09130-61700	KIT ALIGNMENT DISK	1	\$245.00
T306-K	KIT ALIGNMENT HEAD	1	\$200.00
5040	KIT ALIGNMENT MONITOR 5040 ADJUSTMENT VIDEO CRT	1	\$19.00
251704-009	KIT BEARING BORE 0.3543 OD 0.9449 W 0.2756	1	\$30.00
102933-001	KIT CABLE COMQ 286	1	\$140.00
42-123	KIT CD ROM COMPACT DISK CLEANING LENS CLEANER CD CLEANER	1	\$28.00
5836-01-000-0907	KIT CLEANING CARTRIDGE 8MM EXABYTE	2	\$15.96
273351-999	KIT DCP PROM B300 DEQ LP25	1	\$170.00
5420-K	KIT DIAGNOSTIC HPC 5420 DCU	1	\$375.00
652-0582	KIT DIAGNOSTIC MAC APM APPLE DIAG.	1	\$400.00
EAH 1008-K	KIT EAH 1008 E MACHINES INSTALLATION KIT	0	\$40.00
190930	KIT GAUGE TEK 4691/92	1	\$200.00
251704-001	KIT HAMMER MOD DEC LP25 B300	1	\$165.00
HP 92283K	KIT HEAD CLEANING 4MM DAT	3	\$14.00
86262	KIT HEAD CLEANING CLEANER 3.5" FLOPPY DRIVE V ERMATIM DISKETTE	2	\$4.50
U26391-K	KIT HEXDRIVER SET 8 PIECE STANDARD WIHA	1	\$26.00
00085-60900K	KIT HPC 85 EXERCISER+ROM 60949 60952	1	\$150.00
C-RINGS	KIT INSTALLATION C-RING	1	\$100.00
8529165	KIT KEYBOARD PCXT	1	\$3.00
IBM-LBK	KIT LOOPBACK IBM RS232	3	\$5.00
Q22	KIT LOOPBACK Q22-BUS DEVICES	1	\$376.00
4105-K	KIT LOOPBACK TEK	1	\$50.00
5000985	KIT MAINTENANCE IOMG	1	\$518.00
LN03X-AD	KIT MAINTENANCE LN03X-AD	2	\$172.21
DQ01	KIT MAINTENANCE RETROGRAP	1	\$175.00
040-1061-00	KIT MODIFICATION AMPLIFIER HARD COPY	2	\$275.00
040-1109-00	KIT MODIFICATION CRT	1	\$280.00
LA36-KV	KIT MODIFICATION DECWRITERII	1	\$100.00
650-2111-00	KIT MODULAR INK JET HEAD ASSY TEK 4692	2	\$14.50
MK102	KIT MOUNTING BRACKET 3.5" DRIVE HARD DISK HDA	4	\$1.20
PIE-K	KIT PIN INSERT EXTRACT	1	\$100.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
118-8623-00	KIT PLATEN ROLLER TEK 4694 PHASER II	2	\$55.00
190934	KIT PM LP ADJ 3463/4/5/6 TORQUE WRENCH	1	\$200.00
102745-001	KIT PRE-OILED WICK KIT	1	\$12.00
RA81-K	KIT RA81 DISK TEST	1	\$10.00
HP560C-KIT	KIT REFURBSHING HP 560C HP560C DESKJET PAPER FEED ROLLER HPC (RECALLED PRINTERS ONLY)	1	\$20.00
HP520-KIT	KIT REFURBSHING HP520 HP 520 DESKJET PAPER FEED ROLLER HPC (RECALLED PRINTERS ONLY)	1	\$20.00
03495-89502	KIT RELAY	1	\$12.00
050-1375-01	KIT REPL CLUTCH 105-0520-00	2	\$48.00
118-8624-00	KIT ROLLER PICK UP TEK 4694 PHASER II	3	\$69.00
09845-65520K	KIT ROM-TAPE DIAGNOSTIC TEST 9845	1	\$100.00
FEDRON	KIT RUBBER REJUVENATOR	1	\$25.00
076-0355	KIT SCREW LASER2 APM RETURN KIT W/REMAINING SCREWS REORDER WHEN NEEDED	1	\$19.00
8710-1426-K	KIT SCREWDRIVER TORX	1	\$95.00
MT-G65-00	KIT SERVICE PRINTER/PLOTTER VES C2700 MIT	1	\$1,655.00
57034	KIT SNAP-RING SNAP RING	1	\$50.00
8200	KIT SOLDERING GUN 100/120WATTS	1	\$20.00
29-24232	KIT SPRING	1	\$24.00
050-1708-00	KIT TEK 4631	2	\$15.25
4692 HOSES	KIT TEK 4692 HOSES	1	\$20.00
655-4306-00	KIT TEK HARDWARE 4692 DEQ LCP01	1	\$60.00
655-4289-00	KIT TEK HARDWARE 4692 DEQ LCP01	1	\$144.00
9835	KIT TEST 9835	1	\$400.00
HP2645/8	KIT TOOL 2645/8	1	\$41.00
7935-K	KIT TOOL 7933/7935 P.M.	1	\$54.00
RA60-K	KIT TOOL RA60	1	\$100.00
251704-004	KIT TRANSDUCER REBUILD KIT BP1000 B600 B300	1	\$43.52
920064-01	KIT TRANSFORMER FLYBACK	4	\$12.00
MAC+UG	KIT UPGRADE 512/PLUS ANALOG BOARDS WITH FLYBACK APM APPLE MAC+	3	\$35.00
63412	KIT VACUUM PUMP MAINTENANCE KIT DRYTEL30	1	\$145.00
5.12E+12	KNIFE PUTTY VES ECP-42	1	\$1.26
366-0426-01	KNOB GRAY	1	\$1.00
136-757530-A	KNOB PLATTEN NIFP6	2	\$1.54
0370-0032	KNOB 1 IN BLK	3	\$18.50
0370-0026	KNOB 3/4 IN BLK	4	\$12.00
865-0029	KNOB BRIGHTNESS PLATINUM MAC+	1	\$1.00
53534112	KNOB COVER CLEANING PAD LATCH RIA LP4080 DEC LN03	1	\$1.00
Y435009001	KNOB PLATEN	2	\$6.00
51901101	KNOB PLATEN OKI 391	2	\$4.00
366-1528-00	KNOB PUSH BUTTON GRAY	1	\$1.00
102100-001	KNOB TRACTOR ADJUST	2	\$6.00
6080K	KODAK WHITE REFLECTANCE COATING BARIUM SULFATE	2	\$190.30
C3229	LABEL DISK 3 1/2"	7	\$0.06
C3133	LABEL DISK 5 1/4"	32	\$0.04
4371	LABEL FILE FOLDER LABELS	6	\$2.29
7121-2501	LABEL INFO	1	\$7.00
4020-043-0063	LACING	3	\$17.53
NE51/B1A	LAMP	4	\$0.38
335	LAMP	2	\$1.00
1875	LAMP	2	\$1.00
291	LAMP	5	\$1.09
CM20-1	LAMP	7	\$1.10
1873	LAMP	30	\$1.20
VLL-0019	LAMP	5	\$1.62
GE-1630	LAMP	5	\$5.07
VS1273	LAMP	5	\$38.00
112	LAMP 1.2V .22A	2	\$0.29
870-8305	LAMP 28V .08A MFG. BY NKK SWITCHES	1	\$3.00
CM379	LAMP 6.3V .2A PRINTRONIX	6	\$0.50
GE7377	LAMP 6.3V SUB MINIATURE	7	\$1.46
150-0057-01	LAMP INCAND: 5V 0.115A	3	\$3.50
25F1140	LAMP INCANDESCENT 28V 40MA CARTRIDGE RED	2	\$6.47
3540007	LAMP POWER SWITCH NEFF BLOWER	26	\$5.00
25F1144	LAMP WHITE 28V 0.04A	3	\$6.40
394	LAMP .04A 12V	5	\$0.90
334	LAMP .04A 28V MIDGET GROOVED	18	\$0.72
683	LAMP .06A 5V 683	48	\$0.87
NE-2A(A2A)	LAMP .24W.2A A2A	4	\$0.36
NE2E A9A	LAMP .7MA .12W 105-125V WIRE TERM	12	\$0.31
NE2D C7A	LAMP 105-125V .7MA	9	\$1.47
344	LAMP 10V .014A MID FLANGE	42	\$1.39
428	LAMP 12.5V MINATURE SCREW	3	\$0.94

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
679-5100	LAMP 125V .5W RED LENSE .5 INCH DIA. PILOT	2	\$3.50
6T4	LAMP 125V 6W	2	\$0.74
606-00151	LAMP 12V HALOGEN RHEOMETRICS	2	\$8.34
1165-0022	LAMP 130V 25W PACE 351	7	\$6.00
386	LAMP 14 VOLT INCANDESCENT 14V .08A	3	\$1.11
QL-1111	LAMP 14V .065A WAMCO	68	\$1.50
382	LAMP 14V .08A MID FLANGE	17	\$0.30
373	LAMP 14V .08A MID SCREW	2	\$0.86
2182	LAMP 14V .08A WIRE TERM	4	\$0.54
CM161	LAMP 14V .19A WEDGE	9	\$0.61
1893	LAMP 14V .33A MINI BAYONET	23	\$0.55
330	LAMP 14V 0.08A MINI. FLANGED	11	\$0.18
2162-12	LAMP 14V 100MA	27	\$0.65
DQ00045	LAMP 15V 150W 2 PIN CONTACT PROJECTOR	1	\$16.88
150-0109-00	LAMP 18V 26MA	2	\$7.00
222	LAMP 2.25V .25A MINI SCREW	4	\$0.98
1458	LAMP 20V .25A MINI BAYONET	9	\$0.30
T532420	LAMP 24V 20MA SLIDE	6	\$1.40
CML040	LAMP 28V .04A	4	\$1.10
CM7-7387	LAMP 28V .04A BIPIN RPO6	5	\$0.59
1819	LAMP 28V .04A MINI BAY	3	\$0.72
1764	LAMP 28V .04A WIRE TERM	3	\$0.50
656	LAMP 28V .06A WEDGE	11	\$0.55
1829	LAMP 28V .07A MINI BAYONET	10	\$0.28
313	LAMP 28V .17A MINI BAYONET CANDEL.	2	\$0.20
1820	LAMP 28V .1A MINI BAYONET	34	\$0.68
387	LAMP 28V 0.04A MINI. FLANGED	3	\$0.19
CK-S-4632	LAMP 28V 40MA 100 OHM	6	\$1.20
CM85	LAMP 28V WEDGE	7	\$0.54
49	LAMP 2V .06A MINI BAYONET	4	\$0.86
55C	LAMP 55V .052A	3	\$1.25
7153	LAMP 5V .115A NEFF 500 TEK 4111 THUMBWHEEL	2	\$1.90
3540009	LAMP 5V NEFF 500 REMOTE LAMP	10	\$5.00
53535322	LAMP 5V QUENCHING UNIT RIA LP4080 DEC LN03	3	\$17.75
25F090	LAMP 6.3V .015MA WEDGE BASE TYPE 159	3	\$1.28
377	LAMP 6.3V .075A MID FLANGE NEFF 620600 REMOTE LAMP 377	23	\$0.30
349	LAMP 6.3V .2A MID FLANGE	5	\$0.78
47	LAMP 6.3V 0.15A MINIATURE BAYONET	8	\$0.12
44	LAMP 6.3V 0.25A BAYONET CANDEL.	59	\$0.28
CM86	LAMP 6.3V 2A WEDGE	5	\$0.50
XAMQ10S	LAMP 6.3V 40MA	1	\$1.00
51	LAMP 6240-011-5273 7.5V .22A NO LONGER AVAILABLE	15	\$0.25
53X	LAMP 6240-013-1282 14.4V	15	\$0.13
92T4.5/6/40	LAMP 6V .04 AMPS	8	\$1.95
345	LAMP 6V .04A MID FLANGE	18	\$0.85
1768	LAMP 6V .2A MIDGET SCREW	27	\$1.35
50F3002	LAMP 6V 0.2A MIDGET GROOVED BASE	5	\$2.59
328	LAMP 6V 0.2A MINI. FLANGED	27	\$0.23
7328	LAMP 6V 200MA BIPIN	5	\$1.20
VS8024	LAMP 7V .3A B&K	1	\$1.60
LAMP FOR 300G	LAMP 8W FLOURESCENT MKB 300G SCANNER	2	\$10.00
200865-001	LAMP ASSY CIPHER MOD 11 XDUCER	3	\$16.50
6000-70	LAMP ASSY RUSKA	1	\$130.00
050-2034-00	LAMP BULB 1495 IER C420 INTEGRA	12	\$3.00
150-0170-00	LAMP CART TEK 4014	2	\$3.15
12-12716-01	LAMP CM73 14V .08A WEDGE VFU	7	\$0.95
PR2	LAMP FLASHLIGHT	2	\$0.13
3901-272476	LAMP FLUKE 5V .02A	4	\$17.62
112-5145	LAMP GALVO MERCURY VAPOR 100 WATTS 16 TO 24 VOLTS 4.1 TO 6.2 AMPS	1	\$140.00
192	LAMP GE-192	5	\$0.51
150-0030-00	LAMP GLOW	1	\$1.00
RH7 4046	LAMP HEAT 115V 500W LWPRO LASER-PRO FUSER	1	\$35.00
2140-0258	LAMP INCAND	1	\$7.15
GE1739D	LAMP INCANDESCANT 6.3V .075A T 1 3/4	9	\$0.35
2140-0037	LAMP INCANDESCANT. 28V HP	9	\$1.10
3901-192120	LAMP INCANDESCENT 10 VOLTS	1	\$15.91
50N8160	LAMP INCANDESCENT 28V .024A WIRE TERMINALS FOR DATAMETRICS 1015	17	\$0.99
GE-12	LAMP INDICATOR 6.3V .15AMP 15A	3	\$1.11
60F3600	LAMP INDICATOR 125 VAC LEECRAFT TYPE 45RN-2111T3	2	\$12.83
1630	LAMP MICROSCOPE	1	\$11.17
50N8183	LAMP MINIATURE 10 PER BOX	10	\$0.61

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
757	LAMP MINIATURE BAYONET 28V .08A	10	\$0.53
NE2H	LAMP NEON 110 WIRE TERMINALS	13	\$0.75
NE2/A1A	LAMP NEON A1A	13	\$0.36
150-0035-00	LAMP NEON MINIATURE TEK 4631	1	\$1.00
A1H	LAMP NEON NEON GAS TYPE MIDGET FLANGED BASE 95V AC 135V DC GAS STRIKING VOLTAGE GE PART NO.	8	\$1.14
FCS	LAMP PROJECTOR 150W 24V	3	\$2.82
T533020	LAMP SLIDE 30V 20MA	20	\$1.40
OR 6201	LAMP T 1-3/4 MIDGET GROVE BASE	21	\$1.51
96F5865	LAMP T-2 TELEPHONE SLIDE BASE 12 VOLTS .040 AMPS	9	\$1.33
T5312050	LAMP T-5.5 TELEPHONE SLIDE LAMP 12V .050A	4	\$1.19
T5318025	LAMP T-5.5 TELEPHONE SLIDE LAMP 18V .025A	5	\$1.25
T5330050	LAMP T-5.5 TELEPHONE SLIDE LAMP 30V .050A	12	\$1.20
150-0048-01	LAMP TEK	1	\$4.00
CML220401	LAMP W/LEADS	5	\$1.00
24C405	LAMP W/LEADS	5	\$1.12
CML210403	LAMP W/LEADS	7	\$1.20
CM20-6	LAMP W/LEADS	4	\$1.50
RG1-1769	LASER ASSEMBLY	1	\$85.00
RG1-0579-030CN	LASER DRIVER PCA	1	\$210.00
8-RG0-0009-000	LASER UNIT QMS PSJET+	1	\$213.32
C3900A	LASERJET 4MV TONER CARTRIDGE	2	\$123.00
12-17630-00	LATCH	6	\$1.00
171140-001	LATCH ASSEMBLY	5	\$2.00
HDLA9	LATCH FOR THE E-520 SURVEY METER	6	\$8.00
682898	LATCH GROMMET	5	\$1.74
90-09966-01	LATCH GROMMET	5	\$30.00
90-10055-01	LATCH GROMMET PLASTI	45	\$30.00
90-09965-00	LATCH PLUNGER	3	\$1.00
90-09964-00	LATCH PLUNGER	15	\$30.00
12-14740-00	LATCH PLUNGER	28	\$90.00
90-10056-00	LATCH PLUNGER NYLON	49	\$30.00
105-0610-00	LATCH TRAY	5	\$10.00
FG3000-390-100	LCD DISPLAY BECKMAN 310 3010	1	\$14.70
9456	LEAD MECHANICAL PENCIL 0.5MM ORDER PER TUBE ISSUED FROM STOCK PER TUBE	10	\$0.57
8266	LEAD MECHANICAL PENCIL 0.7MM	4	\$0.43
74-28268-01	LEADER TAKE-UP DEC TK50	5	\$1.95
T-79A-153	LEADS TEST MINIATURE BANANA POINTS W/ALLIGATOR CLIPS KEITHLEY 130	1	\$12.50
7500	LEADS VOM SIMP 260	1	\$21.00
53534426	LEAF SPRING EXIT ROLLER LARGE	1	\$1.50
53534429	LEAF SPRING EXIT ROLLER SMALL	2	\$1.50
957-0038	LEAF SPRING FUSER HOT ROLLER GROUNDING LASER2	4	\$1.95
HLMP-1601	LED 14V .065A RED	15	\$0.35
400159	LED GREEN RECTANGULAR	2	\$3.17
45611-60204	LED INFARED	27	\$3.00
351-1151	LED IR/WATER CLEAR	2	\$3.88
93F4650	LED LAMP MV6400 GREEN	7	\$0.44
10F7062	LED LR1800R	1	\$3.20
10F7066	LED LR1816R	1	\$3.20
555-2003	LED MEGALANCHE 3696	1	\$2.00
RA1-3959	LEFT COVER FUSER LASER2 APM	2	\$4.25
1650402-002	LEFT HANDLE	1	\$24.00
135-437215002A	LEFT SLIDE GUIDE HOLDER PC CARTRIDGE	1	\$4.17
103628-G2	LEFT SPRING PRINTER	2	\$16.00
759274	LENS FRONT PANEL 8842A	1	\$15.75
3060012	LENS POWER SW NEFF BLOWER	7	\$1.00
K54-828	LENS CLEANER OPTICAL CLEANER	1	\$7.50
656405	LENS FRONT PANEL 8840A	3	\$13.16
003-0210-001	LEVEL CAM SPRING FAIL-SAFE	19	\$1.20
14504BD	LEVEL SHIFTERS	6	\$1.48
RA13946-000	LEVER INGAGEMENT ENGAGEMENT FUSER LASER2	3	\$2.00
275861-001	LEVER BAND RELEASE	1	\$2.00
104698-001	LEVER PLATEN	1	\$4.00
970-1003	LEVER RELEASE	2	\$2.70
970-1314	LID FUSER LASER2	2	\$9.95
Y440004001	LID PRINTER	2	\$15.00
949-0164	LIFTER RIGHT APPLE APM PS815	2	\$0.50
B1050A1	LIGHT NEON DEC RKO7	3	\$1.83
94F6544	LIGHT BULB 16V .04A T-2 LAMP	6	\$1.47
815-6272	LIGHT PIPE POWER ON APM APPLE 7100	1	\$1.80
5131401604	LIGHTED SWITCH	1	\$37.50
DL5645	LINE DELAY	10	\$4.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
74-11437-00	LINE FEED KNOB	1	\$1.00
C1600+	LINE PRINTER	1	\$5,479.00
42224G2	LINE STROBE ASSY PAPER FEED STROBE CABLE ASSY (USE WITH 42224G1) CT1210 CT1200	1	\$140.17
41-2977	LIP SEAL WELCH 8814A VACUUM PUMP	2	\$4.92
41-2988	LIP SEAL WELCH 8814A VACUUM PUMP	2	\$7.75
41-2962	LIP SEAL WELCH 8814A VACUUM PUMP	4	\$7.82
P23231300	LM207 OP-AMP NSC USED EDWARDS 1174	2	\$11.00
WYLE 5 OHM	LOAD BOX 5OHM	1	\$50.00
521D049010	LOADING BELTS	3	\$3.30
SZ-1585V/DPS	LOCK SECURITY DOOR CONTROLS EMLOCK MAGNETIC LOCK W 650LBS HOLDING FORCE WITH DOOR POSITION	1	\$165.00
70-0101-05	LOCK ASSEMBLY FOR L6 READER	3	\$10.00
42750	LOCK DELL KEYLOCK	6	\$4.21
SZ-1572VBA	LOCK EMLOCK 1200LB HOLDING FORCE BOND ALERT SENSOR M	1	\$229.00
MAGLOCK	LOCK MAGNETIC WITH LOCK INDICATOR	1	\$250.00
320LM	LOCK MAGNETIC WITH SENSOR SWITCH 24V AC/DC	4	\$173.00
011-0405-001	LOCKING CAM SPACER	10	\$0.60
003-0211-001	LOCKING CAM SPRING	19	\$1.20
011-0404-001	LOCKING LEVER SPACER	10	\$1.20
003-0007-001	LOCKING LEVER SPRING CKS CARDKEY STRIKE	7	\$0.60
44F8762	LOCKING POST ASSY ETHERNET	4	\$3.36
24221	LOCTITE 242 (10 ML BOTTLE)	2	\$11.50
661-1615	LOGIC BOARD MAC2SI	1	\$1,100.00
670-9712-00	LOGIC MODULE TEK 4692	1	\$2,179.00
MOULOG1STPS2	LOGITEC FIRST MOUSE PS/2 AND SERIAL 3 BUTTON	1	\$5.75
ADM3A-CLT	LOOPBACK ADM3A	1	\$5.00
119-0305-00	LOUDSPEAKER	1	\$5.00
LPS-2	LUBRICANT CLEANING WD-40 WD40	5	\$1.99
DRYPHITE	LUBRICANT DRY GRAPHITE DRYPHITE	7	\$5.06
KROIL	LUBRICANT PETROLEUM BASE AEROKROIL KROIL 13 OZ.	1	\$8.00
62293	LUBRICATION SYRINGE	2	\$118.00
56993	LUBRICATION SYRINGE FOR A 5081 TURBINE	1	\$55.00
101662-001	LUG PLATEN SPRING	1	\$1.00
105013-001	LUG PLATEN SPRING	1	\$1.00
30584	M.E.K.SOLVENT METHYL ETHYL KETONE MEK	2	\$12.15
3080	MAG PICKUP	2	\$120.00
42582	MAGNET CERAMIC DISC	88	\$0.09
53580	MAGNET RING	45	\$0.28
971-0014	MAIN MOTOR ASSEMBLY APM LASER2	1	\$84.60
SB0008	MAIN OIL SEAL WELCH 1402	4	\$5.00
016-0770-02	MAINTENANCE CARTRIDGE TEK 4692 DECLCP01 REORDER F/NASA STOCK	5	\$36.00
C2062-67901	MAINTENANCE KIT HP 33491A	0	\$439.00
MSF	MAINTENANCE SHIPPING FORM 500 PER PKG.ISSUE=1 PKG.	4	\$26.46
FORM145A	MAINTENANCE SHIPPING FORM SUPPLEMENTAL TICKET	1225	\$50.00
SS-400-1-4-OR	MALE CONNECTOR O-SEAL 1/4	1	\$13.00
SS-400-1-2-OR	MALE CONNECTOR O-SEAL 1/8	0	\$10.70
SS-400-1-OR	MALE CONNECTOR O-SEAL	2	\$10.30
1018A	MANOMETER DATAMETRICS ELECTRONIC FOR PARTS	1	\$2,139.00
15F1371	MANUAL DOS 4.0 IBM	1	\$100.00
699-0322	MANUAL FEED ASSY LASERWRITER	1	\$8.10
14	MARKER BLACK PERMANENT EXTRA FINE	11	\$0.69
6124	MARKER BLACK PERMANENT FINE POINT	8	\$0.62
1059	MARKER BLACK TUBE TYPE CHISEL MARKING TIP	11	\$0.22
83074	MARKER DRY ERASE SET OF 4 BLACK RED BLUE GREEN	3	\$4.59
7599	MARKER HIGHLIGHTER TUBE TYPE 6009 SEARCH LIGHT	6	\$0.55
21	MARKER RED PERMANENT EXTRA FINE	6	\$0.87
456	MARKER RED PERMANENT FINE POINT	8	\$0.59
1062	MARKER RED TUBE TYPE CHISEL MARKING TIP	2	\$0.70
331-0374-07	MASK CRT	2	\$32.00
29-23420-00	MASK RIBBON DEQ LP25	1	\$12.60
07F3184	MC14028BD DECODER IC ESP-32 SURFACE MOUNT	3	\$0.59
28F023	MDA-20 CERAMIC FUSE 250 VOLT 20 AMP SLOW BLOW	0	\$1.17
ET-RELAY-NEFF	MECHANICAL RELAY REPLACEMENT NEFF CAL 620600	3	\$35.00
02670-00084	MECHANISM PRINT THERMAL TPM	1	\$50.00
Y440590000	MECHANISM PRINTER	2	\$366.00
TK50-K	MEDIA DEC COMPACTAPE TK50 TAPE	5	\$10.00
3694	MEMORY 256K BYTE MODCOMP	1	\$11,700.00
T00191-001	METER TENSION	1	\$25.00
SS-31RS4	METERING VALVE	1	\$103.40
SSTG250-4T	METERING VALVE	1	\$148.00
155-0015-01	MICROCIRCUIT ANALOG DATA SWITCH U2180	1	\$46.00
160-1412-00	MICROCIRCUIT EPROM	2	\$150.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
156-2219-01	MICROCKT OPTICAL W/LEADS	2	\$15.00
1572318082	MICROSOFT WINDOWS 2000 PROFESSIONAL RESOURCE KIT	1	\$59.99
V4NT8Y1	MICROSWITCH 5A 250V MADE BY BURGESS	2	\$5.23
5322-210-70129	MINI TEST HOOK GREY	2	\$29.00
5322-210-70131	MINI TEST HOOK RED	2	\$29.00
DCA2332	MINID68F TO MINID50M SCSI ADAPTER	1	\$49.99
EPA MX80-P	MISCELLANEOUS PARTS EPA MX80	1	\$100.00
040-1061-01	MOD KIT FOR 154-0785-53 CRT	1	\$460.00
890-0352	MODEL 352 REPLACEMENT JAWS FOR PANAVISE MODEL 303 SOLD BY THE PAIR ISSUED FROM STOCK PER PA	3	\$11.34
661-1621	MODEM INTERNAL 2400 BAUD/FAX APM PB170	1	\$253.80
17072-60013	MODULE DRIVE 9872	1	\$250.00
17072-60014	MODULE PAPER SUPPLY 9872	1	\$200.00
MT109	MONITOR MONOCHROME MONO QUANTRA 9PIN 9P	2	\$78.00
IBM G50	MONITOR 15" SVGA	1	\$126.00
DEQ VR299	MONITOR 19" COLOR	1	\$5,145.00
AAE 722	MONITOR AMDEK AAE AMD 722 COLOR EGA 9 PIN	1	\$275.00
SNM 19C	MONITOR COLOR SUN	1	\$1,000.00
DEQ VR319-DA	MONITOR CRT GRAYSCALE 19" 19 INCH 72 HZ 1280X1024 DEQ VR319 SPARE/LOANER	1	\$250.00
DEQ VR201(1)	MONITOR DEQ MONOCHROME VR201	1	\$100.00
DEQ VR201(2)	MONITOR DEQ MONOCHROME VR201	1	\$100.00
DEQ VR201(3)	MONITOR DEQ MONOCHROME VR201 W/VIDEO CABLE	1	\$100.00
DEQ VT220	MONITOR DEQ VT220 CRT SMART TERMINAL SPARE LOANER	1	\$100.00
DEQ VT320	MONITOR DEQ VT320	1	\$350.00
HAZE 1500	MONITOR DUMB	1	\$250.00
IBM 5153	MONITOR IBM COLOR RGB 5153 W/VIDEO POWER CABLES	1	\$300.00
IBM 8513	MONITOR IBM VGA 8513001 12"	1	\$432.00
IBM 8514	MONITOR IBM VGA 8514 W/VIDEO CABLE 14" PS/2	1	\$979.00
AMD 300A(L2)	MONITOR LOANER	1	\$150.00
DEQ VR260	MONITOR MONOCHROME DEQ VR260 SPARE LOANER	1	\$275.00
DEQ VR260(UT)	MONITOR MONOCHROME DEQ VR260-AA W/VIDEO CABLE	1	\$245.00
NEY JC1401	MONITOR NEY EGA JC1401 9PIN D W/VIDEO & POWER CORD SPARE LOANER	1	\$300.00
NEY JC1403	MONITOR NEY MULTISYNC COLOR NEY JC1403 SPARE LOANER	1	\$495.00
NEY JC1404	MONITOR NEY MULTISYNC COLOR VGA NEY JC1404 SPARE LOANER	1	\$525.00
NEY JC1401(2)	MONITOR NEY MULTISYNC EGA JC1401PA3A COLOR W/VIDEO CABLE FOR PARTS ONLY	1	\$5.00
NEY JC1402	MONITOR NEY VGA 15PIN JC1402HMA W/VIDEO & POWER CABLES SPARE LOANER	1	\$550.00
ITL 640(2)	MONITOR NO KEYBOARD ITL 640 AGO 640-14E S/N 634539 USE KEYBOARD ITL 640KB(2)	1	\$3,550.00
ITL 640(1)	MONITOR NO KEYBOARD ITL 640 AGO 640-14E S/N 634532 USE KEYBOARD ITL 640KB(1)	1	\$3,550.00
GPH GO250(1)	MONITOR NO KEYBOARD USE KEYBOARD GPH GO250KB(1)	1	\$1,245.00
GPH GO250(2)	MONITOR NO KEYBOARD USE KEYBOARD GPH GO250KB(2)	1	\$1,245.00
1-029-0369G	MONITOR PCB	1	\$180.00
PRIG MAX12(L)	MONITOR PRIG MAX12 MONO COLOR-EMULATION 15.75KHZ 18.43KHZ LOANER	1	\$500.00
SEAR 195	MONITOR SEARS COLOR 195LXI	1	\$350.00
SNM 19M-ELSTON	MONITOR SNM MONOCHROME ELSTON SUN	1	\$2,300.00
SNM 19M-PHILLIPS	MONITOR SNM MONOCHROME SUN SPARE/LOANER	1	\$2,300.00
SON 1302	MONITOR SON 1302 CPD 1302 MULTISCAN RGB 9 PIN W/POWER CABLE	1	\$895.00
SON GDM1952	MONITOR SON GDM1952 PCPC 19INCH COLOR BNC	1	\$800.00
SNM 19MH	MONITOR SUN 19MH HI-RES DISPLAY-TEK SPARE LOANER	1	\$1,250.00
SNM 365-1056	MONITOR SUN COLOR 19C SONY BNC-RGB-SYNC CONNECTIONS SPARE/LOANER	1	\$4,095.00
TEK XP27M	MONITOR TEK XP27 TEKTRONIX WEAK CRT	1	\$600.00
109255-001	MONITOR VGA COLOR CPQ CRTMON	1	\$525.00
630-1-090	MOSFET	4	\$1.97
670-7677-04	MOTHERBOARD	3	\$600.00
20-2223D24173	MOTOR	1	\$25.00
77671273	MOTOR	1	\$38.00
12-21497-01	MOTOR	2	\$45.00
54153102	MOTOR	2	\$70.00
147-0039-00	MOTOR DRIVE TEK	1	\$20.00
F315064000	MOTOR PAPER FEED EPSON FX85 FX185 FX105	3	\$53.83
07470-60180	MOTOR PEN DRIVE	2	\$70.00
131168-901	MOTOR STEPPER PRINTRONIX	1	\$500.00
961510-101	MOTOR 30VDC/CIP.M990	1	\$197.00
94231900	MOTOR AND CABLE ASSY	1	\$207.00
131306-901	MOTOR ASSY RIBBON DRIVE	1	\$159.00
257633-002	MOTOR ASSY COOLING FAN	1	\$98.70
246200-004	MOTOR ASSY PF B3+00	1	\$185.00
263476-001	MOTOR ASSY POSI DRIVE	1	\$310.20
29-23388-00	MOTOR BAND DEC LP25	1	\$405.00
29-24253-00	MOTOR CARRIAGE DEC LA50	1	\$69.00
WYLE7B	MOTOR DATEX ENCODER	1	\$10.00
147-0039-01-CP	MOTOR DC TEK 4631	1	\$20.00
147-0039-01	MOTOR DC TEK 4631	2	\$195.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
147-0039-01	MOTOR DC TEK 4631	7	\$100.00
147-0060-00	MOTOR DC TEK 4692	1	\$140.00
171014-001	MOTOR DRIVE	2	\$10.00
F315059000	MOTOR DRIVE CARRIAGE FX100	1	\$50.08
F315059000	MOTOR DRIVE CARRIAGE FX100 85 80	1	\$38.00
46585G1	MOTOR DRIVE CT1210	1	\$315.00
70-09691-00	MOTOR DRIVE PRINTHEAD LA36	2	\$351.00
118-8606-00	MOTOR DRUM DRIVE	1	\$95.00
70-16723-02	MOTOR HDA DRIVE 60HZ DEC RA81	1	\$433.44
70-16723-02	MOTOR HDA DRIVE 60HZ DEC RA81	1	\$461.00
3140-0613	MOTOR HP2621 TERM	2	\$31.00
29-24254-00	MOTOR LINE FEED DEC LA50	1	\$42.00
110352-902	MOTOR MOTOR/GEARBOX RIBBON DRIVE PRINTRONIX PTX P6240	1	\$140.40
101474-001	MOTOR PAPER FEED	1	\$50.00
8-RG9-0102-000	MOTOR QMS PSJET+	1	\$157.62
201088-001	MOTOR REEL FIXED	1	\$332.50
70-15388-00	MOTOR SERVO ASSY DEC	1	\$175.00
70-15388-00	MOTOR SERVO LA120	1	\$184.00
00913-0127-0001	MOTOR SHAFT THIS SHAFT REQUIRES INSPECTION BY M. CZARNECKI BEFORE PUT IT IN STOCK.	1	\$275.00
103315-001	MOTOR SHUTTLE ASSY	1	\$157.00
118-6776-01	MOTOR SPINDLE 4693 TRANSFER ROLLER GEAR ASSEMBLY	1	\$50.00
2722-53MX-03	MOTOR SPINDLE SEAGATE ST251	3	\$30.00
50380-ST225	MOTOR SPINDLE ST225 SEAGATE	2	\$30.00
12-17474	MOTOR STEPPER DEQ LA100	1	\$35.00
3140-0786	MOTOR STEPPER HP2225 PRINTER	2	\$19.00
PH266-01B	MOTOR STEPPER TESH TESTEC Z	1	\$270.00
70-15389-00	MOTOR STEPPING DEC LA120	2	\$57.00
09830-69961-1(EX)	MOTOR TAPE DRIVE MOTOR ASSEMBLY 9830 MISSING CASSETTE DOOR ASSEMBLY	1	\$165.00
147-0029-00	MOTOR TEKTRONIX	1	\$40.00
MTE2115-059BE	MOTOR TESH TESTEC Y	2	\$440.00
105927-001	MOUNTING BLOCK ANTI-ROTATION	1	\$8.00
M0100	MOUSE	1	\$80.00
370-1170	MOUSE	1	\$100.00
A2838A	MOUSE 3 BUTTON HPC 9857 HPC 300 SERIES	2	\$75.00
370-1170	MOUSE OPTICAL SNM DIN PLUG	1	\$100.00
1150-1835	MOUSE 3 BUTTON HPC 720 735 700/RX	1	\$52.50
661-0479	MOUSE APM APPLE DESKTOP BUS DTB MAC	6	\$65.70
661-0400	MOUSE APM MAC+	5	\$72.00
TO-P000203220	MOUSE CAP LAPTOP TOS PA1207	4	\$1.85
VS10X-EA	MOUSE DEC MICROVAX	1	\$95.00
5691-MOUSE	MOUSE DEQ VR260AA LOANER	1	\$30.00
GTW 386MSE	MOUSE GTW 386	1	\$50.00
46060A	MOUSE HEWLETT PACKARD HPC 700RX	1	\$10.00
NEK MOUSE	MOUSE NEK 17C	1	\$100.00
NEK NCD19BMSE	MOUSE NEK NCD19B	1	\$100.00
61X8923	MOUSE PS/2 DIN 6P 6PIN 2BUTTON IBM B US	4	\$6.79
MOUSE	MOUSE SERIAL MICROSOFT COMPATIBLE DOS WINDOWS	4	\$16.00
365-1042(UT)	MOUSE SUN OPTICAL	1	\$80.00
MS-200	MS-200 MAGNETIC TAPE HEAD CLEANER CAN AEROSOL	5	\$24.70
MS-260	MS-260 CLEANER FOR PLASTIC GLASS METAL CAN AEROSOL	21	\$4.45
MS-930	MS-930/CO2 CONTACT RE-NUJ CAN AEROSOL SAFEZONE	14	\$7.95
MS-941	MS-941/CO2 PRECISION CLEANING SOLVENT FREON TF WITH STAWS REPLACES TRICHLOROETHANE MS-170	24	\$7.95
MS-266	MS-966/CO2 EN-STAT ENSTAT CAN AEROSOL STATIC REMOVAL	3	\$10.50
MS-990	MS-990/CO2 SAFEZONE SOLVENT FLUX REMOVER W/STRAWS	7	\$10.50
MS-SNOOP-80Z	MS-SNOOP LIQUID LEAK DETECTOR BOTTLE SQUEEZE	9	\$4.00
102496-050	MULTIPLIER ASSY	1	\$142.27
01-W371B-02	MVME-188-CPU25MHZ	3	\$60.00
01-W3730B-01	MVME-188-SYSCON	3	\$60.00
9352	NCR 2 PART PERFORATED FORM PLAIN 8.5 X 5.5	1	\$69.00
1970-1	NEEDLE VALVE ASSEMBLY	1	\$331.00
4/110 DKO	NI-CAD BATTERY 2 PIN CONNECTOR ON + TERMINAL 1 PIN CONNECTOR ON - TERMINAL	1	\$11.00
206	NICOLET PLUG-IN 2EA.- D2 AMPLIFIERS FOR PARTS	1	\$2,496.00
922-0843	NMI RESET ACTUATOR MINI-T V1 8100 POWER MAC 8100	3	\$0.90
22-221	NOTEBOOK DATA RULED 10 COLUMNS 11 X 8 1/2 50 SHEETS ACCOUNTING	11	\$2.00
B-402-1	NUT 1/4 INCH SWAGLOC NUT	17	\$0.30
220-0954-01	NUT ADJUSTING TEK4692	6	\$1.50
220-0733-00	NUT PLAIN-KNURL	2	\$0.20
261P-1/4	NUT WITH FERRELL OR SLEEVE POLYFLO 1/4	59	\$0.62
107487	NYLON BUSHING	1	\$11.00
94323A192	NYLON KNURLED HEAD FLAT POINT THUMB SCREWS	76	\$0.10
HN5G-53-1	NYLON LATCH GROMMET FOR NEFF RACK	50	\$0.30



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
DP8310N	OCTAL LATCH	2	\$4.90
953-5070	OFHC COPPER GASKETS	5	\$13.00
PM 023 761	OIL FEEDING FELT LUBRICATION FELT I	2	\$1.25
9150-836-8641	OIL LUBRICATING OIL GENERAL PURPOSE	17	\$1.18
61-9256A	OIL PUMP PLUNGER WELCH 8814A VACUUM PUMP	3	\$4.12
99-100212-00	OIL SUMP VARIAN 2-3/4" WITH O-RING	1	\$53.00
NYETACT515	OIL SYNTHETIC CONTACT SEALANT NYETACT 515G&M	5	\$7.00
969-9902	OIL TA OIL 1000 ML. ISSUE BY MILLILITER (ML)	1000	\$0.38
9150-273-8663	OIL VACUUM PUMP PREMIUM HIGH VACUUM PUMP OIL 13203 13204 RITCHIE PN#93094	12	\$13.09
OP77EJ	OP AMP	4	\$15.97
LM311H	OP AMP 8 PIN CAN	4	\$2.98
05F8504	OP-AMP OP15FJ	0	\$7.10
R64-4012-100	OPC CARTRIDGE DRUM FOR QMS 860	1	\$199.00
NTE859	OPERATIONAL AMPLIFIER FET LOW NOISE	2	\$4.51
CA3160T	OPERATIONAL AMPLIFIER TO-5 CASE WITH STRAIGHT LEADS	2	\$3.50
OPL800	OPTEK PHOTOLOGIC SENSOR	5	\$3.99
LF-K001	OPTIC CLEANING CARTRIDGE FOR PANASONIC OPTICAL DRIVE MODEL LF-5012	1	\$35.00
2870007	OPTIC COUPLER	2	\$5.00
650-2256-00	OPTICAL SENSOR KIT	3	\$85.00
076-0250	OPTICAL SENSOR KIT ASSEMBLY	1	\$7.40
156-0430-00	OPTO-ISOLATOR TEK 4129 SNM 19M	3	\$6.00
43F886	OPTOISOLATOR VTL5C2	3	\$5.05
800328-009	O-RING	2	\$1.00
25-00030-006	O-RING HUB LOCKING	2	\$16.00
61-03-40370	O-RING SIZE 40-370	90	\$0.90
61-03-46450	O-RING SIZE 46-450	73	\$0.40
61-03-58610	O-RING SIZE 58-610	10	\$1.00
61-02-30023	O-RING 1=1280@.72 EA. ISSUED 140 EA.FROM WYLE STOCK COMMERCIAL GRADE - NO EXPIRATION DATE	1140	\$0.90
2	O-RING BUNA NITRILE .050 THICKNESS .042 I.D. .142 I.D.	54	\$0.29
4	O-RING BUNA NITRILE .060 THICKNESS .070 I.D. .210 O.D.	0	\$0.03
21	O-RING BUNA NITRILE 1/16" THICKNESS .926" I.D. 1.066" O.D.	2	\$0.02
22	O-RING BUNA NITRILE 1/16" THICKNESS .989" I.D. 1.129" O.D.	18	\$0.02
23	O-RING BUNA NITRILE 1/16" THICKNESS 1.051" I.D. 1.191" O.D.	14	\$0.02
24	O-RING BUNA NITRILE 1/16" THICKNESS 1.114" I.D. 1.254" O.D.	24	\$0.02
25	O-RING BUNA NITRILE 1/16" THICKNESS 1.176" I.D. 1.316" O.D.	7	\$0.02
17	O-RING BUNA NITRILE 1/16" THICKNESS 11/16" I.D. 13/16" O.D.	1	\$0.02
19	O-RING BUNA NITRILE 1/16" THICKNESS 13/16" I.D. 15/16" O.D.	7	\$0.37
5	O-RING BUNA NITRILE 1/16" THICKNESS 3/32" I.D. 7/32" O.D.	24	\$0.20
18	O-RING BUNA NITRILE 1/16" THICKNESS 3/4" I.D. 7/8" O.D.	4	\$0.18
16	O-RING BUNA NITRILE 1/16" THICKNESS 5/8" I.D. 3/4" O.D.	9	\$0.43
13	O-RING BUNA NITRILE 1/16" THICKNESS 7/16" I.D. 9/16" O.D.	21	\$0.02
20	O-RING BUNA NITRILE 1/16" THICKNESS 7/8" I.D. 1" O.D.	26	\$0.02
15	O-RING BUNA NITRILE 1/16" THICKNESS 9/16" I.D. 11/16" O.D.	28	\$0.18
214	O-RING BUNA NITRILE 1/8" THICKNESS 1" I.D. 1-1/4" O.D.	36	\$0.08
220	O-RING BUNA NITRILE 1/8" THICKNESS 1.359" I.D. 1.637" O.D.	56	\$0.13
216	O-RING BUNA NITRILE 1/8" THICKNESS 1-1/8" I.D. 1-3/8" O.D.	74	\$0.10
224	O-RING BUNA NITRILE 1/8" THICKNESS 1-3/4" I.D. 2" O.D.	6	\$0.11
223	O-RING BUNA NITRILE 1/8" THICKNESS 1-5/8" I.D. 1-7/8" O.D.	7	\$0.11
325	O-RING BUNA NITRILE 3/16" THICKNESS 1-1/2" I.D. 1-7/8" O.D.	17	\$0.15
328-0	O-RING BUNA NITRILE 3/16" THICKNESS 1-7/8" I.D. 2-1/4" O.D.	17	\$0.17
329	O-RING BUNA NITRILE 3/16" THICKNESS 2" I.D. 2-3/8" O.D.	8	\$0.17
333	O-RING BUNA NITRILE 3/16" THICKNESS 2-1/2" I.D. 2-7/8" O.D.	14	\$0.20
331	O-RING BUNA NITRILE 3/16" THICKNESS 2-1/4" I.D. 2-5/8" O.D.	28	\$0.17
330-0	O-RING BUNA NITRILE 3/16" THICKNESS 2-1/8" I.D. 2-1/2" O.D.	12	\$0.17
334-0	O-RING BUNA NITRILE 3/16" THICKNESS 2-5/8" I.D. 3" O.D.	3	\$0.20
117	O-RING BUNA NITRILE 3/32" THICKNESS .799" I.D. 1.005" O.D.	15	\$0.07
118	O-RING BUNA NITRILE 3/32" THICKNESS .862" I.D. 1.068" O.D.	10	\$0.07
119	O-RING BUNA NITRILE 3/32" THICKNESS .924" I.D. 1.130 O.D.	16	\$0.07
120	O-RING BUNA NITRILE 3/32" THICKNESS .987" I.D. 1.193 O.D.	9	\$0.07
121	O-RING BUNA NITRILE 3/32" THICKNESS 1.049" I.D. 1.255" O.D.	17	\$0.07
122	O-RING BUNA NITRILE 3/32" THICKNESS 1.112" I.D. 1.318" O.D.	3	\$0.07
123	O-RING BUNA NITRILE 3/32" THICKNESS 1.174" I.D. 1.380" O.D.	11	\$0.07
124	O-RING BUNA NITRILE 3/32" THICKNESS 1.237" I.D. 1.443" O.D.	14	\$0.07
125	O-RING BUNA NITRILE 3/32" THICKNESS 1.299" I.D. 1.505" O.D.	13	\$0.07
112-0	O-RING BUNA NITRILE 3/32" THICKNESS 1/2" I.D. 11/16" O.D.	10	\$0.39
31-43SS	O-RING COMPOUND 19711 PSI (100 PER PACK)	20.5	\$26.10
6	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.114 BUNA NITRILE	23	\$0.05
7	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.145 BUNA NITRILE	7	\$0.04
8	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.176 BUNA NITRILE	16	\$0.05
9	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.208 BUNA NITRILE	15	\$0.04
10	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.239 BUNA NITRILE	3	\$0.05

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
11	O-RING CROSS SECTIONAL DIAMETER 0.070 I.D. IN. 0.301 BUNA NITRILE	9	\$0.06
114	O-RING CROSS SECTIONAL DIAMETER 0.103 I.D. IN. 0.612 NEOPRENE	19	\$0.06
113	O-RING CROSS SECTIONAL DIAMETER 0.103 I.D. IN. 0.549 NEOPRENE	24	\$0.05
61-03-46224	O-RING DUAL PISTON	7	\$0.15
375B212SUA	O-RING O RING 7/8 ID 1-1/8 OD 1/8W 70DM	1	\$5.00
1	O-RING PREFORMED PACKING CROSS-SECTION DIAMETER 0.040 I.D. IN.0.029	200	\$0.04
12	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.070 I.D.0.364 COMMERCIAL GRADE NO	15	\$0.15
110	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.103 I.D. IN.0.362 COMMERCIAL GRADE	24	\$0.31
111	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.103 I.D. IN.0.424	6	\$0.04
115	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.103 I.D. IN.0.674	0	\$0.06
116	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.103 I.D. IN.0.737	16	\$0.07
210	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.0.734	10	\$0.06
211	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.0.796	29	\$0.06
212	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.0.859	3	\$0.08
213	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.0.921	1	\$0.08
215	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.046	24	\$0.12
217	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.171	18	\$0.10
218	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.234	29	\$0.12
219	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.296	28	\$0.13
221	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.421	27	\$0.20
222-0	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.139 I.D. IN.1.484	23	\$0.11
326	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.210 I.D. IN.1.600	33	\$0.21
327	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER 0.210 I.D. IN.1.725	31	\$0.17
332	O-RING PREFORMED PACKING CROSS-SECTIONAL DIAMETER I.D. IN.2.350	7	\$0.28
YJ0042	O-RING RUBBER PISTON PHONE	4	\$1.00
61-03-4762	O-RINGS 8400	130	\$0.40
61-03-50120	O-RINGS PSI 8400	48	\$0.15
18-14830-00	OSCILLATOR 24.07342	1	\$28.00
0960-0528	OSCILLATOR 25.7715MH	1	\$34.00
589B087TDA	OUTLET SEAL PACKING FV-MET8 OUT	1	\$14.00
RG5-0456-000CN	OUTPUT ASSEMBLY COMPLETE DELIVERY ASSEMBLY	2	\$59.00
RA1-2027-000CN	OUTPUT TRAY	1	\$15.00
23W-1402-V	OVERHAUL KIT WITHOUT VANES WELCH 1402	2	\$80.00
670-7948-01	OVERLAY	5	\$1,100.00
970-1001	OZONE FILTER APM LASER+ HPC 2686 QMY PSJET	3	\$14.95
RG1-1753	OZONE FILTER CASE	1	\$14.00
961-0007	OZONE FILTER WIDE FILTER	5	\$14.95
348-1254-01	PAD FOOT FEET	4	\$0.95
5660	PAD PAPER LINED 8 1/2" X 11" RULED BLUE ON WHITE	14	\$0.58
7866	PAD POST-IT 1 1/2 X 2 POST IT	43	\$0.20
7867	PAD POST-IT 3X3	33	\$0.38
7865	PAD POST-IT 3X5 ISSUED F/WYLE STOCK EA.	28	\$0.50
970-0048	PAD SEPARATION CORK LASER2	2	\$9.00
4018	PAD TELEPHONE MESSAGE PAD	6	\$0.16
3090	PAD WRITING PAPER UNRULED 3X5	9	\$0.28
8479	PAD WRITING PAPER UNRULED 5X8	14	\$0.94
8020-260-1304	PAINT BRUSH 2 INCH	3	\$1.29
8010-290-6983	PAINT SPRAY SO-SURE WHITE 17875 LACQUER	1	\$1.34
GAL16V8B-25LJ	PAL CHIP	3	\$1.55
076-0623	PALM REST ASSEMBLY APM APPLE 5300C	1	\$11.70
333-1804-02	PANEL CONTROL TEK	1	\$50.00
550-100196-001	PANEL DISTRIBUTION	1	\$150.00
M9058	PANEL DISTRIBUTION SIGNAL	1	\$269.00
815-1233	PANEL DOOR I/O APM APPLE PB170 PB140 PB145 PB145B	2	\$2.70
29-25225	PANEL DOOR LN03	1	\$48.00
333-2726-00	PANEL FRONT	1	\$7.00
70-22007-01	PANEL FRONT	1	\$150.00
551-100520-001(UT)	PANEL I/O QCIC	1	\$225.00
386-3010-01(EX)	PANEL KEYBOARD TEK 4014-1	1	\$65.00
152-0197	PANEL LIGHT LED GREEN 6V-DC 20 MA	1	\$4.10
152-0092	PANEL LIGHT LED RED 6VDC 20MA	1	\$4.10
152-0098	PANEL LIGHT LED YELLOW 6VDC 20MA	2	\$4.10
810-6035	PANEL NUBUS CAP COVER SLOT APM APPLE 7100	3	\$0.90
70-28469-02(EX)	PANEL OPERATOR CONTROL OCP FOR RA90/92	1	\$88.00
09872-60087	PANEL POWER	1	\$15.00
70-16530-00D	PANEL POWER DEQ LA36	1	\$15.00
550-100271-001(UT)	PANEL POWER DIST. MOD 9250	1	\$325.00
550-100202-001(UT)	PANEL POWER MOD 9250	1	\$125.00
RA1-4292-000CN	PANEL REAR DELIVERY HPC LASERJETIII 33429	1	\$20.50
SP-10	PANEL SLIDE BEST 3KVA UPS SLIDE PANEL	1	\$403.00
550-100218-001(UT)	PANEL SWITCH 4913	1	\$12.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
29-24283-00	PANEL SWITCH DEC LA50	1	\$26.00
550-100118-001	PANEL WRITE LOCKOUT	1	\$100.00
9280-0264	PAPER CHART HPC	2	\$15.50
6366	PAPER 6 HOLE PUNCHED RULED 6 3/4" X 3 3/4"	3	\$1.44
WA	PAPER CHART	3	\$11.00
B9541AR	PAPER CHART Z-FOLD FOLDING CHART	8	\$10.00
4292	PAPER CLIP PAPER CLIPS 1-3/8"	19	\$0.15
0743S	PAPER CLIP PAPER CLIPS 2"	6	\$0.36
07470-60175	PAPER DR ASSY RED HP7470	1	\$100.00
971-0017	PAPER FEED ASSEMBLY PICKUP ROLLER ASSEMBLY LASER2	6	\$39.95
131302-902	PAPER FEED MOTOR PTX P9012	1	\$185.12
42224G1	PAPER FEED STROBE ASSY CT6644 12XX CABLE ASSY P/F STROBE (USE WITH 42224G2) CT1210 CT1200	2	\$79.61
118-6806-00	PAPER FEED UNIT	1	\$685.00
565	PAPER GRAPH 5X5 GRID GREEN ON GREEN ENGINEER'S PAD 8 1/2 X 11	5	\$4.65
2757	PAPER GRAPH QUADRILL RULED BLUE ON WHITE	8	\$2.14
135-743817-A	PAPER GUIDE ASSY I + II WITH ACTUATOR I + II + MANUAL	5	\$39.42
118-8961-00	PAPER GUIDE EJECT UNIT TEK 4684	1	\$269.00
F303036020	PAPER HOLDING COVER LEFT EPSON FX80	1	\$4.50
F303037020	PAPER HOLDING COVER RIGHT EPSON FX80	2	\$4.50
F303011040	PAPER HOLDING COVER SPRING EPSON FX80	3	\$6.00
102677-002	PAPER IRONER	1	\$21.00
251941-001	PAPER MOTION SENSOR B300	1	\$50.91
996	PAPER PRINTER TAB MACH CONT.9 1/2"X 11" RESERVE 6 IN BACK STORAGE ROOM	8	\$20.99
RB1 0336	PAPER SENSOR	1	\$1.99
1990-0632	PAPER SENSOR HP9845B	1	\$49.00
82931A	PAPER TERMAL	1	\$30.00
92297B	PAPER TRAY HPC LASERJET III 33429 LASER2	1	\$99.00
92297R	PAPER TRAY TOP COVER HPC LASERJETIII	3	\$28.00
11 X 17	PAPER XEROX COPIER LASER 11 X 17 ORDER PER CASE 5 REAMS PER CASE ISSUED FROM STOCK PER REAM	3	\$10.18
8.5 X 11	PAPER XEROX COPIER LASER 8.5 X 11 ORDER PER CASE 10 REAMS PER CASE ISSUED FROM STOCK PER REAM	252	\$3.09
8.5 X 14	PAPER XEROX COPIER LASER 8.5X14 ORDER PER CASE 10 REAMS PER CASE ISSUE FROM STOCK PER REAM	11	\$3.99
7632	PAPER YELLOW LEGAL PAD	13	\$0.59
670-8072-00	PARALLEL INTERFACE	1	\$500.00
FX-80P	PARTS MICS	1	\$150.00
FX80	PARTS MISC.	1	\$20.00
FA2-5938-000CN	PAWL CLAW FUSER SEPARATION APM LASERWRITER HPC LASER JET 2686A QMY PSJET	7	\$4.90
92X2583	PAWL SEPARATION IBM 4216-031	2	\$15.50
53534043	PAWL SEPARATION RIA LP4080 DEQ LNO3	5	\$2.40
G0004065	PAWL SEPARATION RIA LP4081 DEQ LNO3+	3	\$3.25
076-8414	PAWL SEPERATION CLAW APM LASER 2 HPC 33440A	8	\$2.70
90X8624	PB MEMORY 1MB IBM 8550Z	1	\$69.00
898	PC DUSTER AIR TX2511 MICRODUSTER	19	\$4.25
46F5594	PC MOUNT RELAY DS1E-M-DC5V	2	\$5.30
6450213	PC NETWORK ADAPTER IBM	1	\$419.00
09830-66503	PCB	1	\$10.00
09830-66501	PCB	1	\$30.00
5020-6884	PCB	5	\$30.00
09830-66551	PCB	4	\$35.00
45611-60003	PCB	1	\$80.00
G5036	PCB	1	\$414.00
07470-66122	PCB	1	\$500.00
103830-001	PCB	1	\$500.00
M7902	PCB	1	\$1,518.00
661-0528	PCB APM SYSTEM LOGIC MOTHER MACII MAC2 W/O RAM	3	\$1,563.00
CGA	PCB CLON VIDEO PC CGA MDA 8 BIT	2	\$10.00
MFM-8BIT	PCB CLONE HARD DISK ADAPTER MFM 8 BIT CLOSE XT	8	\$79.95
670-4104-02	PCB CONTROL	1	\$20.00
LS-2000	PCB COREL SCSI INTERFACE ADAPTER AT COMPATABLE OPTICAL DISK DRIVE CONTROLLER	1	\$150.00
501-1632	PCB CPU SNM 4/65	1	\$350.00
661-0426	PCB DC CONTROLLER LASER 2	2	\$406.00
PSM-916-CUS-U6	PCB DEFLECTION W/CRT PCB ULT14	1	\$125.00
516-100049-001	PCB DIG OUT	3	\$150.00
33497-67901	PCB HPC I/O INTERFACE	1	\$640.00
672-0503-06	PCB HV	1	\$50.00
670-3688-01-CP	PCB INTERROGATE BOARD	1	\$20.00
699-0515	PCB INVERTER PCA	3	\$12.60
670-2577-16-CP	PCB MAIN	1	\$1,200.00
9050-001-1303	PCB MAIN SMU CM4531	2	\$121.38
300/1200	PCB MODEM	1	\$250.00
672-0466-01	PCB MULTIPLEXER	1	\$10.00
18183	PCB NIS GPIB MGZ SIRO1 IEEE PCII/PCIIA AT-GPIB/TNT ISA INTERFACE	1	\$395.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
8513-72 POWER SUPP	PCB POWER SUPPLY 8513	1	\$19.99
050-01540	PCB POWER SUPPLY E-MACHINES T16	2	\$75.00
PSP-930-SPS-U5	PCB POWER SUPPLY ULT 14	2	\$130.00
ST21M	PCB SEA CONTROLLER DISK FIXED DISK AT W/O FLOPPY	2	\$55.00
IX405	PCB SERIAL PARALLEL I/O ADAPTER CONTROLLER 9P 9 PIN 25P 25 PIN GAME PORT JCC AT	3	\$39.75
DR5100/4	PCB SIMM MEMORY 4MB 72BIT	2	\$235.00
501-1718	PCB SNM VIDEO SBUS COLOR CG4 4/75 4/40	1	\$1,100.00
670-3661-12-CP	PCB TEK CBA TIMING	1	\$690.00
670-5723-03	PCB TIMING INTERFACE	1	\$30.00
122269-00	PCB VIDEO TVI 970	7	\$15.00
670-3652-04	PCB VIDEO INTERFACE	1	\$20.00
501-1166	PCB XYLOGICS 451 SMD DISK CONTROLLER	1	\$1,050.00
54-13414-00	PCB +-5V REG DEC H7104	1	\$545.00
501-1423(EX)	PCB OMB MEMORY	1	\$290.00
60057	PCB 12MHZ 1024KB	1	\$745.00
516-200198-001	PCB 16 BIT PAR CTRL	1	\$2,525.00
VGA-1MB	PCB 16 BIT PCI SUPER VGA W/1MB VIDEO GRAPHICS ADAPTER 1MB	1	\$25.00
516-100653-001	PCB 16 BIT-PAR CTRL 4805-2	1	\$2,375.00
A638	PCB 4 CHANNEL DAC	1	\$125.00
90021829	PCB 4CHL AMP/FILTER PCB NEFF	1	\$860.00
25540B	PCB 8 CHAN FILTER HP2250	1	\$120.00
670-8766-00	PCB 80186/188 POD CONTROL TEK 4109	1	\$420.00
09845-66523	PCB 8K BYTE BD ASSY	1	\$310.00
69422-61020	PCB A/D	1	\$450.00
A1500473A	PCB A2 BOARD SONY GDM-2038 RADIUS 0381	1	\$272.27
840550-01	PCB AAE POWER SUPPLY AMDEK 722	1	\$85.00
8-RG1-0209-030	PCB AC CONTROLLER QMS PSJET+	1	\$19.05
661-0268	PCB AC DRIVER 110VAC APM LASERT	1	\$110.00
8-RG1-0204-080	PCB AC DRIVER QMS PSJET+	1	\$79.40
03495-66522	PCB ACTUATOR BD	1	\$73.00
AHA-2940UW	PCB ADAPTEC PCI ULTRA WIDE SCSI ADAPTER	1	\$288.00
566-100174-001	PCB ADAPTER ASYNC XITION MOD 9088-4	1	\$556.00
900-255-018(EX)	PCB ADAPTER BUS MOUSE MICROSOFT	1	\$20.00
80100	PCB ADAPTER CONTROLLER HARD DRIVE PCAT AT MFM 8BIT DISK FIXED IBM HC318	1	\$50.00
516-100769-001	PCB ADAPTER EIX TRANSITION MOD 9088-4	1	\$322.00
516-100768-001	PCB ADAPTER IEEE TRANSITION MOD 9088-4	1	\$449.00
516-100824-001	PCB ADAPTER MODACS/X DIFF XITION MOD 9088-4	1	\$3,000.00
TNT2	PCB AGP VIDEO GRAPHICS 16MB MEMORY	1	\$33.63
AHA-1542	PCB AIB CONTROLLER CLON FIXED SCSI INTERFACE ADAPTEC ADAPTER FLOPPY KIT	1	\$248.22
516-100450-002	PCB ALARM COMMON	1	\$350.00
09816-66582	PCB ALPHA CNTL	1	\$370.00
54-15626(EX)	PCB AMPLIFIER	1	\$168.00
661-0376	PCB APM ADAPTER MAC2 VIDEO L37392C	1	\$250.00
661-0325(EX)	PCB APM APPLE INTERFACE IMAGEWRITER II APPLE TALK OPTION	1	\$100.00
661-0775	PCB APM APPLE LASER2 IIG I/O CONTROLLER DOES NOT CONTAIN MEMORY NO HOLD DOWN BRACKET	1	\$345.60
661-0429	PCB APM APPLE LASER2 NTX I/O OLDER VERSION ROM THAN 661-1605	1	\$2,284.00
661-0746	PCB APM APPLE LOGIC BOARD PB180 MOTHER POWERBOOK 180 PB160 PB165	1	\$315.00
661-1676	PCB APM APPLE LOGIC BOARD Q800 33MHZ 8MB	1	\$648.00
661-0747	PCB APM APPLE PB180 DAUGHTER BOARD	1	\$557.00
630-0135	PCB APM CONTROLLER HD20 HARD DRIVE	1	\$200.00
661-0325	PCB APM INTERFACE APPLE IMAGEWRITER II APPLE TALK OPTION	1	\$85.00
1155-040	PCB APM INTERFACE ETHERNET ETHER TALK MAC II	1	\$495.00
661-0537	PCB APM MAC2CX SYSTEM LOGIC MOTHER W/O RAM	2	\$1,763.00
661-0522	PCB APM MAIN LOGIC MAC2FX SYSTEM BOARD	1	\$444.00
661-0653	PCB APM MC2RGB VIDEO COLOR PCB REV B FOR SONY DISPLAY	2	\$143.00
661-0462	PCB APM POWER SUPPLY MAC+ SWEEP OLD PN 661-76153	1	\$195.00
661-0462	PCB APM POWER SUPPLY MAC+ SWEEP OLD PN 661-76153	3	\$225.00
661-0428	PCB APM SCSI INTERFACE LASER2 LASER2SC WITH 1 MEG MEMORY 661-0441 APPLE	1	\$499.00
661-0529	PCB APM SYSTEM LOGIC MOTHER MAC2X W/O RAM	1	\$2,100.00
661-0532	PCB APM SYSTEM MAC2CI APPLE	2	\$2,190.00
661-0526	PCB APPLE LOGIC MAC SE MACSE 800K FD ROMS	1	\$620.00
661-0304	PCB APPLE MAIN CPU LOGIC IMAGEWRITER II	1	\$136.80
02670-60084	PCB ASC11 TPM	3	\$225.00
25574-69002	PCB ASSY	1	\$100.00
SIX PACK PLUS	PCB AST I/O PC MULTI	2	\$230.00
SIX PACK PLUS(EX)	PCB AST I/O PC MULTIFUNCTION	1	\$230.00
101095-001	PCB ASYNC SER COMPAQ	1	\$80.00
978632-00	PCB AUTO CONC ADD	1	\$75.00
54-15278-01	PCB BACKPLANE DEC RA60	1	\$261.00
BARR2	PCB BARR/HASP ADAPTER	1	\$896.00
54-13009-03	PCB BASIC VIDEO	1	\$994.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
PCB-1D	PCB BEST LOGIC 3KVA UPS	1	\$495.00
PCB-20	PCB BEST LOGIC 3KVA UPS BATTERY CHARGER BD	1	\$160.00
PCB-5D	PCB BEST POWER SUPPLY 3KVA UPS DC P/S	1	\$105.00
25574-60002	PCB BIF HPC 2250	1	\$1,000.00
W975	PCB BLANK	3	\$35.00
W998	PCB BLANK MODULE	1	\$20.00
W930	PCB BLANK MODULE	2	\$20.00
54331701	PCB BPD PA3A1A	1	\$216.00
M903B	PCB CABLE	2	\$20.00
CMDHV11	PCB CAK COMM AST UVAX DHV11	1	\$1,800.00
90023037	PCB CAL MEMORY+DAC ASSY 620/600	1	\$1,800.00
54-13626-00	PCB CAP DEC H766 POW SUP	1	\$262.00
09865-66562	PCB CASS CNTL LOGIC	5	\$30.00
09830-66561	PCB CASS INTER	4	\$25.00
09865-66564	PCB CASS MTR CNTL	5	\$30.00
263080-001	PCB CCA	1	\$454.00
54331302	PCB CDC CPCX R/W PREAMP	1	\$130.00
54356902	PCB CDC CRUX R/W PLO DATA LATCH	1	\$470.00
54330907	PCB CDC DISPLAY PA3/5A1A OPERATOR PANEL	1	\$135.00
54338906	PCB CDC EPX PA5A1A DISK DR	1	\$1,468.00
021-0135-00	PCB CDC INTERFACE	1	\$1,000.00
962357-001	PCB CEI CIF M990	1	\$923.00
962112-001	PCB CEI CPU/MMU M990	1	\$1,412.00
962789-001	PCB CEI LOGIC DATA M990	1	\$1,300.00
962832-002	PCB CEI SEN/SERVO M990	1	\$1,649.00
960771-001	PCB CIE FILE PROTECT M990	1	\$45.00
961181-002	PCB CIE POWER SUPPLY M990	1	\$372.50
201276-002	PCB CIPHER WRITE DATA	1	\$417.00
31-1931-03	PCB CKS STI-C DST	1	\$230.00
201655-001	PCB CLOCK GEN CIPHER	1	\$29.00
HC422	PCB CLON ADAPTER AT ESDI HARD/FLOPPY	5	\$45.00
IDE1	PCB CLON CONTROLLER IDE	1	\$36.82
FC101	PCB CLON CONTROLLER XT 360K FLOPPY DISK DRIVE	2	\$8.00
MCT-12I	PCB CLON MODEM 1200 BAUD INTERNAL	2	\$59.95
PC101	PCB CLON PARALLEL PRINTER	2	\$7.50
SC101	PCB CLON SERIAL XT	2	\$8.00
MC315	PCB CLON SYSTEM LOGIC 386 33 MHZ SIMM WITHOUT PROCESSOR	4	\$108.00
1504910	PCB COLOR/GRAPHICS 8286097	1	\$182.00
106561-9010	PCB COMM	1	\$400.00
DS120	PCB COMM INTERFACE	1	\$200.00
101440-001	PCB COMM/CLOCK	1	\$100.00
104174-001	PCB COMPAQ CONTROLLER DP286 MULTIPURPOSE CONTROLLER	1	\$230.00
113446-001	PCB COMPAQ CONTROLLER DP286 MULTIPURPOSE FIXED DISK DRIVE 40MB	1	\$230.00
102705-001	PCB COMPAQ CONTROLLER DP286 MULTIPURPOSE NO DOCUMENTATION AVAILABLE	1	\$230.00
100644-001	PCB COMPAQ CONTROLLER FIXED DISK	1	\$395.00
101672-001	PCB COMPAQ FIXED DISK DRIVE	1	\$420.00
107373-001	PCB COMPAQ POWER SUPPLY PORTABLE 3	1	\$295.00
100478-001	PCB COMPAQ PROCESSOR	1	\$410.00
101340-001	PCB COMPAQ VDU ADAPTER	1	\$260.00
100479-001	PCB COMPAQ VDU FULL HT	1	\$260.00
670-4104-04	PCB CONTROL	1	\$20.00
670-3025-02	PCB CONTROL BOARD	1	\$350.00
07404-60100	PCB CONTROL HP7475	1	\$145.00
670-4104-01	PCB CONTROL TEK	2	\$100.00
29-25541-00(EX)	PCB CONTROL VR290	1	\$58.00
ASM20-20000	PCB CONTROLLER	1	\$250.00
82901-66503	PCB CONTROLLER	1	\$275.00
TC02	PCB CONTROLLER UVAX TAPE	1	\$1,800.00
566-100118-001	PCB CONTROLLER ASYNC MOD 9088-4 MVME332	1	\$2,024.00
516-100278-001	PCB CONTROLLER CARD READER	2	\$1,980.00
566-100137-001	PCB CONTROLLER EIX MOD 9088-4	1	\$1,900.00
501-1153	PCB CONTROLLER ETHERNET GATEWAY	1	\$1,395.00
90023123	PCB CONTROLLER HIGH SPEED BUFFER CONTROLLER HSBC NEFF 500 NEF	2	\$6,800.00
09135-86505	PCB CONTROLLER HP913	1	\$1,343.00
8286125(EX)	PCB CONTROLLER IBM XT AT CLON	17	\$35.00
566-100133-001	PCB CONTROLLER IEEE 488 MOD 9088-4	1	\$2,700.00
SG4-6014HP	PCB CONTROLLER LASER JET HP	1	\$10.00
516-100480-001(UT)	PCB CONTROLLER MODACS	1	\$300.00
516-100807-001	PCB CONTROLLER MODACS/X MOD 9088-4	0	\$4,500.00
ULTRA24F	PCB CONTROLLER SCSI HDA EISA AND FLOPPY SCSI-2	2	\$90.00
566-100125-001	PCB CONTROLLER SCSI-1 MOD 9088-4 MVME327	1	\$2,500.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
566-100193-001	PCB CONTROLLER SCSI-2 MOD 9088-4	1	\$3,000.00
670-8610-01	PCB CONVERGENCE 4111 GMA302	1	\$415.00
670-7687-01	PCB CONVERGENCE TEK 4109	1	\$285.00
516-100825-001	PCB CONVERTER MODACS/X P10 BUS MOD 9088-4	1	\$1,500.00
25512B	PCB COUNTER OPT002&B35 HP2250	1	\$1,610.00
54334902	PCB CPMX PA3A1A DISK DRIVE	1	\$397.00
113222-001	PCB CPQ DP386 MEMORY 4MB	1	\$300.00
102710-001	PCB CPQ SYSTEM MEMORY DP286	1	\$270.00
61X8907	PCB CPU	1	\$449.00
09826-69516	PCB CPU	1	\$700.00
54-19356-01(EX)	PCB CPU 3100-V	1	\$635.00
516-100411-001	PCB CPU CLASSIC 786	1	\$6,285.00
12001-60003	PCB CPU HPC 2250	1	\$2,300.00
030-8029-001	PCB CPU SCG 4D/25G IP-10	1	\$1,950.00
501-1835	PCB CPU SNM 4/40 IPC SBUS 4MB SIMMS	1	\$2,700.00
501-1382	PCB CPU SNM 4/60 SPARC 1	1	\$2,750.00
501-1632	PCB CPU SNM 4/65	1	\$3,900.00
501-1316	PCB CPU SNM 4300 SERIES 4/330 4/370 4/370 SIMM SCSI-2	1	\$6,400.00
501-1912(UT)	PCB CPU SPARC 2 4/75 SNM SUN	1	\$1,000.00
54342902	PCB CQHX PA5A1A DISK DR	1	\$139.00
09826-66571	PCB CRT ANALOG	1	\$450.00
09826-66580	PCB CRT ANALOG	1	\$500.00
09826-66576	PCB CRT CONT HP9836	1	\$480.00
PWE 272(EX)	PCB CRT JC1601 NIF MULTISYNC 4D	1	\$79.00
29-27566-01(EX)	PCB CRT SOCKET ASSEMBLY ASSY VR299	1	\$270.00
670-8152-01	PCB CRT SOCKET TEK4109	1	\$45.00
516-100480-001	PCB CTRL. MODCS	1	\$1,170.00
A-1345-676-A	PCB D BOARD DEFLECTION GDM1601 GDM1602	1	\$217.08
A-1345-641-A	PCB D BOARD GDM1950 DEFLECTION	1	\$272.32
A-1345-703-A	PCB D BOARD GDM1952 DEFLECTION	1	\$272.32
12555-60001	PCB D/A CONV	1	\$575.00
670-4758-00	PCB DATA COMM	1	\$360.00
670-4758-01	PCB DATA COMM TEK	1	\$360.00
54-15264-01	PCB DATA SEP DEC RA60	1	\$938.00
661-0109	PCB DAUGHTER BOARD 33MHZ PB540 APM APPLE PB540C	1	\$317.70
661-0709	PCB DAUGHTER BOARD APM APPLE PB170	1	\$947.00
661-0267	PCB DC CONTROLLER	1	\$295.00
8-RG1-0225-090	PCB DC CONTROLLER 300 DPI QMS PSJET+ HPC 2686	1	\$363.84
RG1-1591-070	PCB DC CONTROLLER QMY PS410	2	\$49.00
661-0273	PCB DC POWER SUPPLY MOTOR DRIVE 110VAC	1	\$235.00
54-22249-01	PCB DEC 3000/300 SYSTEM BOARD	1	\$350.00
29-25334-00	PCB DEC CONTROLLER LN03+ 29-25334-00	1	\$725.00
M7521-AA	PCB DEC INTERFACE DELUA NETWORK VAX750	1	\$2,706.00
M7258	PCB DEC LP CONT	1	\$996.00
54-15253-00	PCB DEC READ/WRITE RA81	1	\$1,128.00
70-19045-01	PCB DEC SERVO DEC RA81	1	\$2,391.00
M7485-YA	PCB DEC UDA50 DEC VAX DISK	1	\$2,465.00
M7486-00	PCB DEC UDA50 DEC VAX DISK	1	\$3,535.00
M9301-YF	PCB DEC UNIBUS TERM BOOTSTRAP PC11	1	\$1,100.00
54-14185-01	PCB DEC VT102 TERM CONT	1	\$1,019.00
670-7553-00	PCB DEFLECTION	1	\$675.00
670-3095-01(EX)	PCB DEFLECTION AMP	1	\$350.00
050-01539	PCB DEFLECTION MAIN E MACHINES E-MACHINES T16	1	\$175.00
670-7686-07	PCB DEFLECTION TEK 4109	1	\$490.00
670-8609-07	PCB DEFLECTION TEK4129	1	\$515.00
54-15624-01	PCB DEFLECTION VR260	2	\$618.00
M7516	PCB DELQA DEC M7516 ETHERNET QBUS INTERFACE	1	\$1,650.00
70-16059-00A	PCB DEQ LA120 CURRENT LOOP	1	\$100.00
54-23152-01	PCB DEQ ALPHA MOTHERBOARD	1	\$3,200.00
54-15626-01	PCB DEQ AMPLIFIER VR260 VIDEO	2	\$213.00
29-25539	PCB DEQ APP VR290 HIGH VOLTAGE	1	\$375.00
70-22007-02(UT)	PCB DEQ BA23 3200 CONTROL PANEL ASSY	1	\$370.00
70-22007-02(UT)VS2	PCB DEQ BA23 3200 CONTROL PANEL ASSY	1	\$465.00
54-15610-00(UT)	PCB DEQ BA23 FRONT PANEL MODULE	1	\$150.00
70-19986-00	PCB DEQ BACKPLANE UVAX	1	\$350.00
70-23712-01(UT)	PCB DEQ BACKPLANE BA213 3500	1	\$270.00
H9278-A(UT)	PCB DEQ BACKPLANE Q22 BUS 8 QUAD SLOTS	1	\$1,550.00
H9278A(UT)	PCB DEQ BACKPLANE UVAX	1	\$250.00
M9047(UT)	PCB DEQ BUS GRANT QBUS GRANT CONTINUITY	1	N/A
512000-2	PCB DEQ COMM DS LA36	1	\$50.00
M7957-00	PCB DEQ COMM DZQ11	1	\$150.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
M7546	PCB DEQ CONTROLLER TK50 TAPE	1	\$1,045.00
TQK50(UT)	PCB DEQ CONTROLLER TK50 TAPE M7546	1	\$350.00
M7602-YA	PCB DEQ CONTROLLER UVAX VIDEO VCB01	1	\$2,481.00
M7606-AF	PCB DEQ CPU UVAX KA630	1	\$1,000.00
M7606-EF(UT)	PCB DEQ CPU KA630	1	\$400.00
29-24238-00	PCB DEQ CPU LA50 MOTHER CONTROL	1	\$438.00
54-15624-01	PCB DEQ DEFLECTION VR260	1	\$649.00
29-28050-01	PCB DEQ DEFLECTION VRT19	1	\$545.00
M7504	PCB DEQ DEQNA	2	\$1,379.00
M3127-PA(UT)	PCB DEQ DESQA ETHERNET/THINWIRE S-BOX ADAPTER DESQA-SA	1	\$850.00
G00055-41	PCB DEQ DRIVE RIA ENGINE DRIVE PCB DEQ LN03 AST TURBO LASER & RICOH LP-4081 LASER PRINTERS	1	\$273.50
70-23769-01(UT)	PCB DEQ FILTER BA213 3500 FILTER INPUT ASSY	1	\$50.00
M8634	PCB DEQ I/O UVAX IEEE	1	\$1,750.00
M8716	PCB DEQ INTERFACE VAX DR11W	1	\$1,507.00
M7164(UT)	PCB DEQ KDA50 QDA PROCESSOR QUAD DISK DRIVE INTERFACE FOR RA# SERIES DRIVES USED WITH #M7165	1	\$145.00
M7165(UT)	PCB DEQ KDA50 QDA SDI QUAD DISK INTERFACE FOR RA# SERIES DRIVES USED WITH #M7164 PROCESSOR PCB	1	N/A
LK001-A	PCB DEQ KEYBOARD LA36	1	\$50.00
2190119C	PCB DEQ KEYBOARD LA36 NUMERIC KEYPAD	1	\$25.00
M7607	PCB DEQ MEMORY UVAX 1	3	\$5,000.00
M7608AF	PCB DEQ MEMORY UVAX 2	2	\$4,500.00
54-21139-CE	PCB DEQ MEMORY 4MB SIMM REORDER PART# MS15-CA 1KIT = 8 SIMMS / ISSUED FROM STOCK EACH	7	\$31.25
M7608-BP(UT)	PCB DEQ MEMORY 4MEG	1	\$3,000.00
M7621(UT)3500	PCB DEQ MEMORY 8MB MS650 256K CHIP RAM ARRAY M7621-AA	1	\$225.00
M7621(UT)3200	PCB DEQ MEMORY 8MB MS650 256K CHIP RAM ARRAY M7621-AH	1	\$450.00
M7608-BP	PCB DEQ MEMORY UVAX 4MB	1	\$500.00
70-17362-01	PCB DEQ MONITOR VT100	4	\$50.00
M8396	PCB DEQ MUX VAX I/O DMF32	2	\$2,660.00
54-17232-01(UT)	PCB DEQ OPERATOR CONTROL PANEL FRONT BA213 3500	1	\$260.00
54-15150-00	PCB DEQ PADDLE VT100	1	\$45.00
54-15633-00(UT)	PCB DEQ PANEL SIGNAL DISTRIBUTION 3200 BA23	1	\$430.00
70-19979-00(UT)	PCB DEQ PATCH PANEL ASSY I/O DISTRIBUTION REAR	1	\$1,900.00
H7110-00	PCB DEQ POWER SUPPLY LA120	1	\$855.00
5410805	PCB DEQ POWER SUPPLY LA36	2	\$15.00
H7868-A(UT)	PCB DEQ POWER SUPPLY ASSY 120 VAC 5V @ 33A 12V @7A BA213 3500	2	\$200.00
H7864A	PCB DEQ POWER SUPPLY UVAX	1	\$2,000.00
H7864-B(UT)	PCB DEQ POWER SUPPLY UVAX 3200 VAXSTATION BA23 SV 230W	1	\$450.00
70-14979-00	PCB DEQ POWER SUPPLY VT100 VT180	3	\$75.00
M7555-2(UT)	PCB DEQ RQDX	1	\$200.00
M7555	PCB DEQ RQDX3	1	\$1,840.00
M7559(UT)	PCB DEQ TQK70 TAPE DRIVE CONTROLLER TQK70-SA	1	\$575.00
M7168(UT)3500	PCB DEQ UVAX COLOR BITMAP 4 PLANE USED W/M7169 VCB02	2	\$175.00
M7168(UT)3200	PCB DEQ UVAX COLOR BITMAP 4 PLANE USED W/M7169 VCB02	2	N/A
M7168(UT)VS21V	PCB DEQ UVAX COLOR BITMAP VCB02	1	\$600.00
M7169(UT)VS21V	PCB DEQ VCB02 VIDEO CONTROLLER MODULE Q22 BUS VCB02	1	\$1,500.00
M7169(UT)3200	PCB DEQ VCB02 VIDEO CONTROLLER MODULE Q22 BUS VCB02-D	1	\$395.00
M7169(UT)3500	PCB DEQ VCB02 VIDEO CONTROLLER MODULE Q22 BUS VCB02-J	1	\$365.00
2831981-B	PCB DEQ VIDEO VR241A	1	\$250.00
70-17362-01	PCB DEQ VIDEO VT100	1	\$150.00
54-19621-02	PCB DEQ VR319 POWER SUPPLY DEFLECTION	1	\$265.50
M7620-BA(UT)3200	PCB DEQ VS3200 KA650-BA 90NS CPU 64KB CACHE MOD ROM SINGLE USER	1	N/A
M7620-BA(UT)3500	PCB DEQ VS3500 KA650-BA 90NS CPU 64KB CACHE MOD ROM SINGLE USER	1	\$175.00
M8210	PCB DEQP	1	\$100.00
M8212	PCB DEQP	1	\$100.00
M8213	PCB DEQP	1	\$100.00
M8214	PCB DEQP	1	\$100.00
A242	PCB DEQP CONV LSP1	1	\$235.00
M9302	PCB DEQP UNIBUS	1	\$250.00
M3104	PCB DHV11	1	\$1,320.00
25511B	PCB DI OPT002&B35 HP2250	1	\$1,100.00
09826-66541	PCB DIAG TESTER	1	\$575.00
25535B	PCB DIG IN HP2250	1	\$55.00
25544A	PCB DIG OUT HP2250	1	\$60.00
25513B	PCB DIG OUT OPT002&B35 HP2250	1	\$1,250.00
670-8151-16	PCB DIG PIGGYBACK TEK 4109	1	\$270.00
516-100451-001	PCB DIG.INPUT POS 5V	2	\$425.00
516-100478-001	PCB DIGITAL O/P DUAL	1	\$250.00
09826-66562	PCB DISC CONT	1	\$470.00
672-0145-00	PCB DISK CONTROLLER	1	\$1,060.00
QD33	PCB DISK CONTROLLER EML QD33	1	\$1,800.00
SC31/BX	PCB DISK CONTROLLER EMULEX SC31	1	\$2,800.00
QD32	PCB DISK DRIVE CONTROLLER DEQ	1	\$500.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
101341-001	PCB DISK PRTR COMPAQ	1	\$130.00
670-3294-03	PCB DISPLAY CONTROL	1	\$200.00
670-8233-16	PCB DISPLAY CONTROL TEK 4109	1	\$1,870.00
09816-66571	PCB DISPLAY CRT	1	\$700.00
670-3372-00	PCB DISPLAY PLOT TEK	1	\$262.50
M9058(EX)	PCB DISTRIBUTION PANEL DEQ BA123	1	\$143.00
M7651	PCB DMA 16 BIT DRV11	2	\$250.00
M7651	PCB DMA 16 BIT DRV11	1	\$1,600.00
516-A00019-001	PCB DMP CONTROLLER	1	\$900.00
M8203	PCB DMP11 LINE UNIT	1	\$2,041.00
42074G30	PCB DPC I/O	1	\$777.00
42048G1	PCB DPR CT1210 1200 CPU	1	\$993.00
42020G1	PCB DPR DRIVER HAMMER DRIVER HIGH SPEED CT1210 1200	1	\$519.00
42020G1	PCB DPR DRIVER HAMMER DRIVER HIGH SPEED CT1210 CT1200	1	\$519.00
42006G1	PCB DPRN CONTROLLER L/P TRAFFIC	1	\$535.00
M7860	PCB DR 11-C	1	\$400.00
54-15266-01	PCB DR LOGIC DEC RA60	1	\$845.00
661-0407	PCB DRIVE CARD MAC II	1	\$80.00
09135-86502	PCB DRIVE HP9133	1	\$419.00
9400-6048	PCB DRIVE INTERFACE	1	\$1,200.00
661-0303	PCB DRIVE IW II	1	\$112.00
516-100152-001	PCB DRIVER	1	\$100.00
DT2651	PCB DRL FRAME GRABBER COMPANION FOR DT2658	1	\$599.00
M7899	PCB DZ-32	1	\$1,000.00
M3106	PCB DZQ11	2	\$650.00
516-100413-001	PCB EAU CLASSIC	1	\$5,670.00
670-8139-01	PCB ECC RAM CONTROL	4	\$1,030.00
70-22942-01(EX)	PCB ECM DEQ RA90/92	1	\$100.00
02-97918-09	PCB ELSTON VIDEO SUN 19M	1	\$452.36
QD32(UT)	PCB EMUL CONTROLLER UVAX DISK	1	\$140.00
118-8807-00	PCB ENGINE CONTROL BOARD TEK 4684	1	\$425.00
09865-66523(EX)	PCB EOT/BOT SENSOR 9830	1	\$65.00
Y42220500000	PCB EPA CONTROLLER MX80	1	\$280.00
Y4402040001	PCB EPA CPU FX100 SLAVE	1	\$70.00
Y440505000	PCB EPA DISPLAY FX80/100	4	\$23.00
Y454201000	PCB EPA EPSON MONMA LQ850 PRINTER	1	\$324.63
Y44021500000	PCB EPA FILTER FX100 FFIL	1	\$55.00
Y44020300000	PCB EPA FILTER FX80 FFIL	3	\$42.00
Y442201000	PCB EPA VXOB EPSON DAUGHTER BOARD	1	\$123.00
670-2301-06	PCB ERASE INPUT	1	\$200.00
12F24	PCB ESDI CONTROLLER ULTRASTOR	1	\$50.00
EV-170B	PCB EVX S/P PC	1	\$70.00
LA36-LB	PCB EXPANDER	1	\$100.00
8-RG9-0101-000	PCB EXPOSURE QMS PSJET+	1	\$37.15
11-1001142	PCB EXT 3 96 VME EXTENDER SUPPORTS 1 96 AND 2 96	1	\$853.00
101250-001	PCB EXTENDER	1	\$55.00
670-5410-01	PCB EXTENDER TEK4014	1	\$175.00
516-100614-001	PCB EXTENDER TEST 32/87 32/87 TEST CONNECTOR	2	\$1,324.00
8-RG1-0208-030	PCB FIXING RLR HTR SAFETY QMS PSJET+	1	\$41.89
90X9287	PCB FLOPPY HARD DRIVE ADAPTER BOARD 8570	1	\$51.25
501-1455	PCB FRAME BUFFER VIDEO SBUS MONO SNM DB9	1	\$750.00
03497-66503	PCB FRONT PANEL	1	\$400.00
70-22048-01(EX)	PCB FRONT PANEL DEQ BA123	1	\$90.00
670-4651-00	PCB FRONT PANEL TEK 4692	1	\$284.00
B03L-4790-0003A	PCB FUJ TERMINATOR M2361A	2	\$36.00
54-16744-01 REV.A1	PCB FUNCTION SEL/SLU MODULE	1	\$133.00
A-1316-055-A	PCB G BOARD GDM1950 POWER SUPPLY	1	\$238.07
A-1316-053-A	PCB G BOARD GDM1950 POWER SUPPLY SON	1	\$200.00
A-1477-275-A	PCB GBOARD POWER SUPPLY GDM1601 1602	1	\$260.33
89240-60901	PCB GPIB	1	\$100.00
670-5742-00	PCB GPIB I/F	1	\$500.00
401270302	PCB GPO	1	\$136.00
501-1645(UT)	PCB GRAPHICS ACCELERATOR CG6	1	\$90.00
030-0078-002	PCB GRAPHICS SCG 4D/70GT RM1	1	\$3,500.00
251165-001	PCB HAMMER DR DATAPRODUCTS	2	\$729.24
02932-60017	PCB HAMMER DRIVER	1	\$270.00
670-2570-01	PCB HARD COPY BRD	1	\$175.00
90X9063	PCB HARD DRIVE ADAPTER IBM ESDI MICROCHANNEL 8580	2	\$70.00
670-7550-00	PCB HARDCOPY AMP	1	\$145.00
400521308	PCB HD	1	\$987.00
89F2129	PCB HEADER MR SERIES 9 MATRIX	2	\$1.26



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
670-3094-04(EX)	PCB HIGH VOLTAGE	1	\$275.00
29-24614	PCB HIGH VOLTAGE DEQ VR241A	1	\$250.00
09816-66514	PCB HP 256U PROC/ID	1	\$1,700.00
03497-66505	PCB HP A/O ASSY HP3497A	1	\$1,650.00
09133-67540	PCB HP CONTROLLER HP9133	1	\$490.00
09826-66573	PCB HP CRT DIG	1	\$380.00
98622-66501	PCB HP GPIO	1	\$360.00
09826-66575	PCB HP GRAPHICS HP9816/26/36	1	\$250.00
09845-66575	PCB HP HIGH VOLTAGE	1	\$180.00
03497-66521	PCB HP HPIB/O HP3497A	1	\$340.00
03497-62502	PCB HP INGD CONT ASSY	1	\$205.00
03495-66504	PCB HP LOGIC BD ASSY SCANNER	1	\$130.00
07470-60121	PCB HP MAIN HP7470 RS232	1	\$400.00
03497-66504	PCB HP MOTHER HP3497A	1	\$115.00
09836-66502	PCB HP MOTHERBOARD	1	\$575.00
03497-66516	PCB HP POWER SUPPLY HP3497A	1	\$350.00
09826-66553	PCB HP POWER SUPPLY HP9826/36	1	\$575.00
02620-60003	PCB HP PROCESSOR BD HP2621	1	\$460.00
03495-66524	PCB HP SCANNER	1	\$45.00
03495-66520	PCB HP SCANNER	1	\$62.50
98034-66501	PCB HPC	1	\$150.00
12040-69014(EX)	PCB HPC 8 CHAN MUX	1	\$160.00
09872-60505	PCB HPC ADAPTOR 9872	1	\$40.00
84V26082A67-MOT	PCB HPC AMPLIFIER 98786A DEFLECTION	1	\$285.00
09845-69555	PCB HPC ASSEMBLY INTERCONNECT	1	\$18.00
09830-66501(EX)	PCB HPC BACKPLANE	1	\$90.00
12210-60002(EX)	PCB HPC BACKPLANE	1	\$4,400.00
12203-69017(EX)	PCB HPC CACHE CONTROLLER A900 1000	1	\$450.00
07957-60001	PCB HPC CONTROLLER	1	\$650.00
09845-66579	PCB HPC CONTROLLER 9845 GRAPHICS	1	\$1,500.00
09845-66551	PCB HPC CONTROLLER 9845 LOGIC ASSY	2	\$400.00
09872-60580	PCB HPC CONTROLLER 9872	1	\$50.00
5021-1302	PCB HPC CONTROLLER 9895 HPIB INTERFACE BLANK	1	\$15.00
09830-66542(EX)	PCB HPC CONTROLLER TAPE	1	\$125.00
09865-66563(EX)	PCB HPC CONTROLLER TAPE	1	\$200.00
09835-66574	PCB HPC CRT 9835A ANALOG	1	\$450.00
09845-66503A	PCB HPC CRT LOGIC	1	\$15.00
12202-60001(EX)	PCB HPC DATA PATH A900 1000	1	\$3,600.00
RG1-0710-090CN	PCB HPC DC CONTROLLER 33440	3	\$260.00
09830-66541	PCB HPC DISPLAY 9830	4	\$50.00
09830-66525(EX)	PCB HPC DRIVER	1	\$150.00
12009-60020(EX)	PCB HPC HP-IB	4	\$1,309.00
12009-60010	PCB HPC HPIB 2250	1	\$1,200.00
11305-66505	PCB HPC I/O CONTROLLER	1	\$300.00
09845-66502	PCB HPC INTERFACE	1	\$40.00
09830-66503(EX)	PCB HPC INTERFACE	1	\$225.00
09830-66502(EX)	PCB HPC INTERFACE	1	\$250.00
03495-66540	PCB HPC INTERFACE 3495	1	\$110.00
03495-66545	PCB HPC INTERFACE 3495A 20 CHANNEL TERMINAL	1	\$100.00
03495-66508	PCB HPC INTERFACE 6495 HPIB	1	\$375.00
09830-26534	PCB HPC INTERFACE 9830 CONNECTOR KEYBOARD	1	\$200.00
09830-66502	PCB HPC INTERFACE 9830 PRINTER THERMAL	4	\$15.00
11203-66591	PCB HPC INTERFACE 9845	2	\$215.00
J2552B	PCB HPC JET DIRECT	2	\$322.00
09830-66532	PCB HPC KEYBOARD 9830	1	\$575.00
09865-66562(EX)	PCB HPC LOGIC	1	\$175.00
09830-66542	PCB HPC LOGIC 9830 DISPLAY	4	\$30.00
09830-66583	PCB HPC LOGIC 9830 REGISTER T	3	\$50.00
09810-66514	PCB HPC LOGIC 9830 ALU REGISTER ASSY	4	\$50.00
09845-69515	PCB HPC LPU	1	\$100.00
09845-69546	PCB HPC LPU RAM/ROM	1	\$40.00
09845-69528	PCB HPC LPURAM/ROM	1	\$440.00
07570-60211	PCB HPC MAIN 7570	1	\$330.00
09872-60520	PCB HPC MAIN 9872	1	\$400.00
09845-66526	PCB HPC MEMORY	1	\$30.00
09830-66583(EX)	PCB HPC MEMORY	1	\$110.00
09830-66582(EX)	PCB HPC MEMORY	1	\$200.00
09826-69523	PCB HPC MEMORY 9826 64K	1	\$320.00
09830-66584	PCB HPC MEMORY 9830 READ/WRITE	5	\$300.00
09865-66563	PCB HPC MEMORY 9830 READ/WRITE CASSETTE	5	\$100.00
09830-66526	PCB HPC MEMORY 9830 ROM BASIC	3	\$200.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
09845-66527	PCB HPC MEMORY 9845 ROM	1	\$675.00
12220-60001(EX)	PCB HPC MEMORY 3/4 MB	4	\$4,765.00
09830-66592	PCB HPC MEMORY 9830	1	\$60.00
11275-66584	PCB HPC MEMORY 9830 READ/WRITE CASSETTE	7	\$40.00
11275-66584(EX)	PCB HPC MEMORY 9830 READ/WRITE CASSETTE	2	\$450.00
11270-66520	PCB HPC MEMORY 9830 ROM MATRIX	1	\$50.00
09845-66590	PCB HPC MEMORY 9845 512K RAM	1	\$10.00
09845-66546	PCB HPC MEMORY 9845 LRR RAM ROM	1	\$80.00
12222-60004(EX)	PCB HPC MEMORY CONNECTOR	1	\$190.00
12204-60001(EX)	PCB HPC MEMORY CONTROLLER	1	\$2,700.00
09830-66594	PCB HPC MEMORY R/W	1	\$40.00
09830-66526(EX)	PCB HPC MEMORY ROM MODULE	1	\$125.00
11272-66520(EX)	PCB HPC MEMORY ROM MODULE	2	\$300.00
09845-66516	PCB HPC MEMORYCONTROLLER	1	\$60.00
09845-66500	PCB HPC MOTHER BOARD	1	\$35.00
03497-66509B	PCB HPC MUX 3497A REED SWITCH ASSY	1	\$400.00
98642-66501	PCB HPC MUX 350 4 CHANNEL	1	\$350.00
12006-60003(EX)	PCB HPC PARALLEL	4	\$285.00
09830-66551(EX)	PCB HPC POWER SUPPLY	1	\$235.00
0950-1671(EX)	PCB HPC POWER SUPPLY	1	\$500.00
00085-69002	PCB HPC POWER SUPPLY 85	4	\$290.00
02620-60004(EX)	PCB HPC POWER SUPPLY 2621P	1	\$150.00
02620-60019(EX)	PCB HPC POWER SUPPLY 2621P	1	\$150.00
09872-66508	PCB HPC POWER SUPPLY 9872	1	\$200.00
SR-26082A33	PCB HPC POWER SUPPLY LOW VOLTAGE	1	\$147.00
00085-60908	PCB HPC PRINTER 85F ASSY	2	\$330.00
02670-60085	PCB HPC PRINTER CONTROLLER	1	\$100.00
09845-66551	PCB HPC PRINTER LOGIC	1	\$50.00
09810-66513(EX)	PCB HPC PROCESSOR	1	\$150.00
09810-66512(EX)	PCB HPC PROCESSOR	1	\$170.00
12201-60001(EX)	PCB HPC SEQUENCER	1	\$24.00
02620-60002(EX)	PCB HPC SWEEP 2621P	2	\$100.00
54332107	PCB HPEX CDC PA3A1A	1	\$1,498.00
07475-60102	PCB HPIB HP7475	1	\$430.00
670-3094-09	PCB HV Z AXIS	1	\$460.00
670-3094-06	PCB HV Z AXIS TEK	1	\$115.00
670-3094-08	PCB HV Z AXIS TEK	1	\$230.00
09872-66209	PCB I/O	1	\$300.00
09810-66512	PCB I/O CLOCK	3	\$10.00
54-15270-01	PCB I/O DEC RA60	1	\$2,618.00
02670-60072	PCB I/O HP2671	1	\$215.00
82939-60901	PCB I/O HP85	1	\$215.00
09826-66581	PCB I/O HP9826/36	1	\$195.00
SG4-6212-000	PCB I/O HPC PSJET 33440	1	\$149.00
661-0800	PCB I/O LWPRO 630 1 YR.WARRANTY EXPIRES 12/95 S/N-S04490EQ1C6	1	\$800.00
54-21147-01	PCB I/O MODULE DEQ ALPHA 3500 SERVER	1	\$395.00
661-0438	PCB I/O NT LASER2NT LASER2 NT LASERWRITER2NT LASERWRITER2 NT APM APPLE BOARD	2	\$244.80
25501B	PCB I/O OPT002 HP2250 16 CHANNELS	1	\$2,800.00
09810-66511	PCB I/O REGISTER	4	\$10.00
671-2049-00(EX)	PCB I/O TEK PHASER PX	1	\$700.00
6489922	PCB IBM 512KB	1	\$1,073.00
6450213	PCB IBM ADAPTER 5160 NETWORK	1	\$619.00
1501492	PCB IBM ADAPTER PCXT FIXED DISK	1	\$413.00
6450244	PCB IBM ADAPTER PS/2 M30 EXTERNAL DISK DRIVE 5.25" 360K	1	\$38.00
8529269	PCB IBM ADAPTER WDC PCXT FIXED DISK	5	\$413.00
1503780	PCB IBM ADAPTER WITH EXTERNAL PORT 8529152 FLOPPY DRIVE IBM XT CLON XT	1	\$73.00
WS105196868	PCB IBM CONTROLLER XT DISK FIXED	1	\$100.00
72X8540	PCB IBM CONTROLLER 8560 FIXED	1	\$233.00
6181682(EX)	PCB IBM CONTROLLER XT FLOPPY DISK ADAPTER	1	\$8.00
8529269(EX)	PCB IBM DISK CONTROLLER CARD 5160 XT	3	\$80.00
1130600	PCB IBM EXPANSION 8529250	2	\$104.00
1501417	PCB IBM EXTENDER 6323445	1	\$136.00
1602501	PCB IBM F/D ADAPTER 8529269	1	\$396.00
6489914	PCB IBM FIXED DISK ADAPTER 20MB	1	\$257.00
8529152(EX)	PCB IBM FLOPPY DISK CONTROLLER 5160 XT	2	\$8.00
1501452	PCB IBM INTERFACE PC/XT ASYNC	1	\$100.00
4584656	PCB IBM KEYBOARD XT	1	\$160.00
6450203	PCB IBM MEMORY 512KB 8286115	1	\$754.00
8529212	PCB IBM MEMORY 64-256KB	1	\$127.00
8529233	PCB IBM MONOCHROME IBM 5151 ANALOG CARD	2	\$84.75
6489906	PCB IBM MOTHERBOARD	1	\$370.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
8529148	PCB IBM PARALLEL PC B/W	4	\$300.00
62X0912	PCB IBM PGA PROFESSIONAL GRAPHICS CONTROLLER	1	\$1,203.00
75X5910	PCB IBM POWER SUPPLY 8514	1	\$106.00
1501427	PCB IBM RECEIVER 8529251	1	\$102.00
2828	PCB IBM RS/6000 SCSI ADAPTER 7013 I/O CONTROLLER	1	\$475.00
1840401	PCB IBM SYSTEM 64K IBM	1	\$754.00
15F7657	PCB IBM SYSTEM 8570 25MHZ (SEE PN 15F7659)	1	\$1,437.00
72X8516	PCB IBM SYSTEM PS/2 (MODEL 50) 8550 W/1MB MEMORY(2-512K SIMMS)	1	\$585.00
6480072	PCB IBM SYSTEM TYPE 2 5170 PCAT	1	\$1,625.00
8529254	PCB IBM SYSTEM XT 256K	3	\$530.00
8529150(EX)	PCB IBM XT SERIAL PORT CARD 5160 XT	2	\$10.00
82565	PCB IDE MULTI I/O PCI BUS	4	\$75.00
DM-2060-SP-11	PCB IKE POWER SUPPLY IKE 2060	1	\$429.00
661-0724	PCB INTERCONNECT APM APPLE PB170	1	\$197.00
661-0750	PCB INTERCONNECT BOARD APPLE APM PB180 PB165 PB160	1	\$207.90
672-0488-01A	PCB INTERFACE	1	\$20.00
672-0488-01	PCB INTERFACE	7	\$105.00
00085-80015	PCB INTERFACE	2	\$150.00
09845-66555	PCB INTERFACE AY	1	\$280.00
29-23419-00	PCB INTERFACE LP25 PRINTER	1	\$749.00
10412-0	PCB INTERFACE QBUS TO UNIBUS ADAPTER	1	\$325.00
672-0488-01	PCB INTERFACE TEK	1	\$105.00
156-0933-01	PCB INVERTOR BOARD	1	\$15.00
42004G1	PCB IO CONTROLLER	1	\$637.00
25537-60001	PCB ISO SDC	1	\$95.00
516-100604-001	PCB ISP-ARITH	1	\$13,495.80
105766	PCB ITL POWER SUPPLY	1	\$485.00
401224201	PCB JF MTU	1	\$250.00
1-619-564-21	PCB KBOARD NO COMPPONENTS (SEE FLYBACK PN 1-439-393-11) GDM1950 1952 1601	2	\$8.77
54020510	PCB KEBN PA3A1A DISK DR	1	\$478.00
119-0483-03	PCB KEY BD TEK 4014	1	\$200.00
09845-66532	PCB KEYBD LOGIC	1	\$390.00
783379	PCB KODK DSP BOARD ASSY XL7700	1	\$685.00
661-1605	PCB LASERWRITER 2 LASERWRITER2 NTX I/O PCB BOARD APPLE APM UPGRADED ROM OF 661-1629	1	\$317.00
661-0437	PCB LASERWRITER I/O LASER LASER+	1	\$498.00
M7728	PCB LOGIC	9	\$100.00
186041-002	PCB LOGIC	1	\$191.00
103831-001	PCB LOGIC A	1	\$400.00
00085-60005	PCB LOGIC BOARD	3	\$320.00
661-0708	PCB LOGIC BOARD MOTHERBOARD APM PB170 POWERBOOK 170	1	\$820.00
09845-66503	PCB LOGIC CONT	1	\$430.00
58-2252(EX)	PCB LOGIC CPU HPC 9895A	1	\$10.00
541514801	PCB LOGIC ENCODER LK202	2	\$95.00
661-0525	PCB LOGIC SYSTEM BOARD APPLE APM MAC+ MAC PLUS	1	\$599.00
661-0666	PCB LOGIC SYSTEM BOARD Q700 APM APPLE QUADRA 700	1	\$2,500.00
516-100539-001	PCB LP CONTROLLER	1	\$3,674.00
1-029-0369-Y	PCB LSI VIDEO ADM3A	4	\$150.00
516-100327-001	PCB M.T.CTR	1	\$5,940.00
02620-60003	PCB MAIN	1	\$100.00
M7081	PCB MAIN LA120 POWER/LOGIC	1	\$125.00
661-0656	PCB MAIN BOARD ASSEMBLY APM APPLE RGB21	1	\$288.90
31-1216-01	PCB MAIN BOARD CARDKEY D620	1	\$595.00
670-2577-05	PCB MAIN CONTROL TEK	2	\$200.00
661-1634	PCB MAIN DEFLECTION APM APPLE RGB16	1	\$398.00
661-1671	PCB MAIN DEFLECTION APM APPLE RGB16 (REV B)	1	\$451.80
07470-60122	PCB MAIN HPIB HP7470	1	\$400.00
07470-60103	PCB MAIN HPIL HP7470	1	\$400.00
02225-60010	PCB MAIN JCT PRINTER	2	\$140.00
131547	PCB MAIN LOGIC	1	\$100.00
661-0396	PCB MAIN LOGIC APM HI RES MONO MONITOR	1	\$170.00
661-0399	PCB MAIN LOGIC BOARD APM MC2RGB	3	\$200.00
29-28050-01/2	PCB MAIN LOGIC DEQ VRT19DA	1	\$60.00
33491-60160	PCB MAIN LOGIC HPC 33491A FORMATTER/PAN ASSY (III SI)	1	\$1,100.00
661-0346	PCB MAIN LOGIC MONO.MONITOR	1	\$74.00
136-432907-001H	PCB MAIN NEY P5XL NEC NIF	1	\$200.00
670-4200-03	PCB MAIN TEK	1	\$200.00
516-100600-001	PCB MAINT. CONSOLE	1	\$4,989.00
12071-60001	PCB MCI HPC 2250	1	\$1,350.00
135-432033-2	PCB MECH.CONTROL(G9WPM)	2	\$402.33
M7608-SS(EX)	PCB MEM DEQ 4MEG 4MB	1	\$310.00
M7608-BP(EX)	PCB MEM DEQ 4MEG 4MB	2	\$310.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
516-100456-002	PCB MEM.MICRO II SS	1	\$1,000.00
09845-66522	PCB MEMORY 16K	1	\$220.00
09845-69590	PCB MEMORY 512K	1	\$575.00
92F0669	PCB MEMORY 8580 IBM 2 MEG PS/2	2	\$65.00
670-6670-00	PCB MEMORY ARRAY	2	\$800.00
60355	PCB MEMORY BOARD DELL 386 WORKS ONLY TO 4MB	1	\$575.00
ADVANTAGE	PCB MEMORY EXPANSION ADVANTAGE	1	\$228.00
AT4X4PLUS(EX)	PCB MEMORY I/O BTQ AT4X4PLUS MEMORY EXPANSION	3	\$60.00
MPB617	PCB MEMORY MODULE APM APPLE PB170 PB180 MEMORY ZRAM	1	\$200.00
09845-66528	PCB MEMORY ROM	1	\$1,150.00
SNXSM/S1-80	PCB MEMORY SNM 4/65 4/75 1MX9 SIMM REPLACEABLE LIFETIME WARRANTY	3	\$55.00
516-100435-001	PCB MFC CTLR	1	\$4,375.00
54-15247-00	PCB MICRO PROC DEC RA81	1	\$2,026.00
09810-66513	PCB MICROPROCESSOR	4	\$10.00
54-15247-00(EX)	PCB MICROPROCESSOR	1	\$525.00
670-1743-02	PCB MINI-BUS EXT KT	1	\$100.00
516-100608-001	PCB MMU1	1	\$11,087.00
516-100607-001	PCB MMUC	1	\$19,773.00
637-200004-001(UT)	PCB MOD BACKPLANE 4911 4911 BACKPLANE	1	\$750.00
637-200026-001(UT)	PCB MOD BACKPLANE 9250	1	\$265.00
551-100492-001(UT)	PCB MOD BACKPLANE MODACE PIO	1	\$260.00
551-100484-001	PCB MOD BACKPLANE MODACS	1	\$1,100.00
551-100492-001	PCB MOD BACKPLANE MODACS	2	\$2,500.00
551-100484-001(UT)	PCB MOD BACKPLANE MODACS LOGIC	1	\$450.00
516-100684-001(UT)	PCB MOD COMM 9250 OC/MC	1	\$270.00
516-100657-001	PCB MOD COMM DCS	1	\$7,400.00
516-100663-001	PCB MOD CONTROLLER PCB MOD CONTROLLER IEEE	1	\$3,966.00
516-300003-001	PCB MOD CONTROLLER 32/87 4176 4176ADISK	1	\$7,500.00
516-200206-001	PCB MOD CONTROLLER 4180	1	\$7,500.00
516-100641-001	PCB MOD CONTROLLER 4180 DISK XB	1	\$7,925.00
516-100659-001	PCB MOD CONTROLLER 4186 DISK MHD	1	\$8,100.00
516-200082-001(UT)	PCB MOD CONTROLLER 4805-1 DATA	1	\$775.00
516-200082-001	PCB MOD CONTROLLER 4805-1 DATA	1	\$1,854.00
516-200041-002	PCB MOD CONTROLLER 4811	1	\$500.00
516-A00021-001	PCB MOD CONTROLLER 5550	1	\$9,000.00
516-100279-001	PCB MOD CONTROLLER 7870 L.P.	1	\$3,474.00
516-100629-001	PCB MOD CONTROLLER 8CH ASYNC 4809 OAI	1	\$5,055.00
566-100175-001	PCB MOD CONTROLLER 9088-4 VLAN-E2	1	\$4,028.00
516-100696-001	PCB MOD CONTROLLER 9250 POWER FAIL	1	\$494.00
516-100443-001	PCB MOD CONTROLLER ASYNC 4806-1	2	\$4,300.00
516-100436-001(UT)	PCB MOD CONTROLLER ATC	1	\$245.00
516-A00018-001	PCB MOD CONTROLLER IEEE	1	\$1,600.00
566-100119-003	PCB MOD CONTROLLER IPS SYSMGR AP	1	\$5,885.00
566-100130-001	PCB MOD CONTROLLER IPS-2 SCSI CTLR 2406-1-X	2	\$1,559.00
637-100009-001	PCB MOD CONTROLLER IPS-2 TAPE CTLR 2446-1	1	\$2,348.00
637-100008-001	PCB MOD CONTROLLER IPS-2 V/SMD CONTROLLER 2486-2-X	1	\$7,638.00
516-100621-001	PCB MOD CONTROLLER MCB 32/87	2	\$9,174.00
516-100620-002	PCB MOD CONTROLLER MIB 32/87	1	\$8,000.00
516-100630-001	PCB MOD CONTROLLER MTU	1	\$6,200.00
516-300207-001	PCB MOD CONTROLLER MTU	1	\$6,489.00
516-100327-001(UT)	PCB MOD CONTROLLER MTU	1	\$575.00
516-100145-002	PCB MOD CONTROLLER OC 4905	1	\$400.00
516-100727-001	PCB MOD CPU 9230	1	\$21,289.00
516-100649-001	PCB MOD DRIVER DCS DR/RX DR32	1	\$450.00
516-100691-002(UT)	PCB MOD FLOATING POINT 9250 FPX	1	\$475.00
516-A00030-001	PCB MOD H.S.LINK 5927	1	\$2,833.00
516-100683-001(UT)	PCB MOD I/O 9250 CARTRIDGE I/F	1	\$330.00
516-100679-001(UT)	PCB MOD I/O 9250 IOS	1	\$135.00
516-100357-001(UT)	PCB MOD I/O 9250 REMOTE FILL	1	N/A
516-100671-001(UT)	PCB MOD I/O IPS-2 DRM	1	\$200.00
516-100672-003(UT)	PCB MOD I/O IPS-2 HIA	1	N/A
566-100116-001(UT)	PCB MOD I/O IPS-2 TRANSITION MODULE	1	\$230.00
516-100357-001	PCB MOD INTERFACE 7861 RMI + REMOTE 7863 7870 32/87 9230 9250	1	\$123.00
516-100703-001(UT)	PCB MOD INTERFACE 9250 MEMORY I/F INSTALLED ON MEMORY PCB	8	\$1,375.00
516-100412-001	PCB MOD IOP DBIOP CLASSIC	1	\$7,025.00
566-100113-001(UT)	PCB MOD LED DISPLAY DISPLAY 9250 DISPLAY MODULE FIP	1	\$375.00
516-300033-001	PCB MOD LOGIC	1	\$234.00
516-100690-001(UT)	PCB MOD LOGIC 9250 FPX COOLING	1	\$1,000.00
516-100056-001	PCB MOD LOGIC IOIS CHAN MUX	1	\$375.00
516-100071-001	PCB MOD LOGIC IOIS COM ALARM	1	\$336.00
516-100177-001	PCB MOD LOGIC IOIS DIA CONV	1	\$534.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
516-100049-001	PCB MOD LOGIC IOIS DIG OUT	1	\$180.00
516-100138-001	PCB MOD LOGIC IOIS DIG OUT	1	\$186.00
516-100138-004	PCB MOD LOGIC IOIS DIG OUT	1	\$186.00
516-100049-004	PCB MOD LOGIC IOIS DIG OUT	1	\$209.00
516-100138-005	PCB MOD LOGIC IOIS DIG OUT	1	\$279.00
516-100068-002	PCB MOD LOGIC IOIS DIG OUT	1	\$509.00
516-100171-001	PCB MOD LOGIC IOIS EXT INT CPLR	1	\$237.00
516-100055-001	PCB MOD LOGIC IOIS I/O INT.	1	\$380.00
516-100221-001	PCB MOD LOGIC IOIS INT TIMER	1	\$425.00
516-100101-001	PCB MOD LOGIC IOIS S.E. CTL 1	1	\$505.00
516-100102-001	PCB MOD LOGIC IOIS S.E. CTL 2	1	\$510.00
516-100075-001	PCB MOD LOGIC IOIS SACI	1	\$523.00
516-100043-001	PCB MOD LOGIC IOIS SYNCHRONIZER	1	\$300.00
516-100631-002	PCB MOD MEMORY 2MEG SBC	1	\$6,500.00
516-100448-001	PCB MOD MEMORY 3692 S128K	1	\$3,000.00
516-200201-001(UT)	PCB MOD MEMORY 3694 3694 MEMORY PLANE	3	\$325.00
516-100632-001	PCB MOD MEMORY 3696 3696 MEMORY PLANE	1	\$6,500.00
551-100716-001(UT)	PCB MOD MEMORY 9250 9260 32MEG	1	\$245.00
637-100015-001	PCB MOD MEMORY IPS-2 CACHE MEMORY 2402-4	1	\$1,904.00
516-100696-001(UT)	PCB MOD MONITOR 9250 POWER FAIL	1	\$325.00
666-100039-00X	PCB MOD POWER SUPPLY 9250 12V	1	\$599.00
516-100418-001	PCB MOD POWER SUPPLY JAWS	1	\$50.00
516-100420-001	PCB MOD POWER SUPPLY JAWS	1	\$50.00
516-100686-001(UT)	PCB MOD PROCESSOR 9250 CPU	1	\$350.00
566-100119-003(UT)	PCB MOD PROCESSOR IPS-2 SYSTEM MANAGER	1	\$360.00
566-100145-001(UT)	PCB MOD PROCESSOR IPS-2 TCP/IP	1	\$450.00
516-100665-001	PCB MOD RECEIVER TRANSMITTER INTERRUPT 32/87 TERMINATOR	1	\$2,170.00
516-100664-001	PCB MOD RECEIVER TRANSMITTER IO 32/87 TERMINATOR	1	\$2,000.00
516-A00030-001(UT)	PCB MOD SERIAL 32/85 HIGH SPEED LINK	1	\$300.00
516-100731-001(UT)	PCB MOD TERMINATOR 9250 INVALIDATE BUS	1	\$60.00
516-100693-001(UT)	PCB MOD TERMINATOR 9250 MEMORY	1	\$550.00
516-100623-001	PCB MOD TERMINATOR MEMORY INTERFACE 32/87	1	\$955.00
551-100497-001	PCB MOD TERMINATOR MODACS	2	\$125.00
551-100497-001(UT)	PCB MOD TERMINATOR MODACS PIOBUS	1	\$475.00
551-100646-001	PCB MODC IODB	1	\$8,000.00
516-100450-001	PCB MODC ALARM MODACS3 COMMON	2	\$290.00
516-100450-004	PCB MODC ALARM MODACS3 COMMON	2	\$290.00
516-100482-001	PCB MODC AMPLIFIER MODACS3 CHANNEL	1	\$400.00
516-100541-001	PCB MODC CONTROLLER 32/85 CON	1	\$622.00
551-100457-001	PCB MODC CONTROLLER 7863 ASYNC	1	\$3,390.00
516-100675-001	PCB MODC CONTROLLER 32/87 IOCP	3	\$7,000.00
516-100177-001	PCB MODC CONVERTER MODACS3 DAC	2	\$100.00
201235	PCB MODC FORMATTER MOD11	1	\$500.00
516-100452-001	PCB MODC INPUT MODACS3 DIGITAL	2	\$250.00
516-100451-004	PCB MODC INPUT MODACS3 GIG ISOL	1	\$540.00
516-100619-002	PCB MODC MAB	1	\$12,000.00
516-100478-004	PCB MODC OUTPUT MODACS3 DIGITAL C.C	2	\$405.00
516-100478-003	PCB MODC OUTPUT MODACS3 DIGITAL F.S	2	\$225.00
516-100452-003	PCB MODC OUTPUT MODACS3 DIGITAL F.S	1	\$360.00
516-100478-002	PCB MODC OUTPUT MODACS3 DIGITAL GND	1	\$225.00
516-100483-001	PCB MODC OUTPUT MODACS3 DIGITAL ISO	1	\$720.00
516-100483-002	PCB MODC OUTPUT MODACS3 TRIAC IS	1	\$720.00
516-100216-003	PCB MODC POWER MODACS	1	\$50.00
516-100603-001	PCB MODC SEQUENCER 32/85 ISP-1	1	\$13,647.00
516-100612-001	PCB MODCOMP POWER SUPPLY MODACS	1	\$583.00
21944	PCB MODE CONTROL	1	\$190.00
516-200208-001	PCB MOLD CONTROLLER 32/87 4176A DISK CONTROLLER CTRLR	1	\$7,000.00
916030	PCB MONITOR BOARD	1	\$110.00
501-1244(EX)	PCB MONO FRAME BUFFER	1	\$340.00
516-100251-001	PCB MOS CONTROLLER 7870 LINK	1	\$1,854.00
670-7677-00	PCB MOTHER	3	\$600.00
MB-486CP	PCB MOTHERBOARD LOGIC 486 DX SX DX2 DX4 LOCAL BUS ZIFF SOCKET 4 30PIN SIMM 2 72PIN SIMM W/O CPU	1	\$78.00
09872-60123	PCB MOTOR ASSY BD	1	\$650.00
09830-66582	PCB M-REGISTER	4	\$50.00
09830-69582	PCB M-REGISTER	3	\$300.00
516-100605-001	PCB MULT	1	\$15,533.00
QB5356	PCB MULTI FUNCT 256K QUADBD	1	\$300.00
CAPTAIN	PCB MULTI I/O	1	\$150.00
MG064	PCB MULTI I/O 64K AST 64K MEGAPLUS II	1	\$259.00
31-1128-01	PCB MULTI-TERMINAL INTERFACE CARDKEY MTI CKS	1	\$470.00
90023060	PCB MUX FRONT PANEL	1	\$5,800.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
25502B	PCB MUX HL OPT002 HP2250 32 CHANNELS	1	\$1,750.00
25503B	PCB MUX LL OPT002 HP2250	1	\$2,450.00
25504B	PCB MUX OPT002 HP2250	1	\$2,400.00
516-100620-001	PCB MZB	1	\$8,000.00
90023189	PCB NEF 16K SERIAL RECEIVER 620500	1	\$3,100.00
90023070	PCB NEF A/D CONV 620100 620200	2	\$3,900.00
90023039	PCB NEF CAL SUPPLY 620600	0	\$2,000.00
90023126	PCB NEFF 600 CONTROLLER PADDLE CARD	2	\$50.00
90023154	PCB NEFF 600 TO 500 ADAPTER PADDLE CARD	1	\$50.00
90023153	PCB NEFF 600/500 ADAPTER NEF 620500 NEF 620600	1	\$1,100.00
22110-200-1-2	PCB NEFF AMPLIFIER 620 PROGRAMMABLE	1	\$500.00
D21829L	PCB NEFF AMPLIFIER 4 CH LOW LEVEL	3	\$600.00
D22107E	PCB NEFF AMPLIFIER 4CH HI LEVEL	1	\$300.00
D22107F	PCB NEFF AMPLIFIER 4CH HI LEVEL	8	\$300.00
22110-200-1-2	PCB NEFF ANALOG PGA	2	\$560.00
90023023	PCB NEFF ANALOG SUB ASSY 620/600 A/D	0	\$5,800.00
D22066-B	PCB NEFF CAL	3	\$300.00
22125	PCB NEFF CAL RELAY	1	\$160.00
21996-2	PCB NEFF CHAN ADD 8 BUFFER	1	\$930.00
90023042	PCB NEFF CONTROLLER SCANIVALVE	1	\$2,800.00
90022626	PCB NEFF CONTROLLER SERIAL 8-PORT 620576 500	1	\$2,900.00
90022926	PCB NEFF I/O 500 620500 GENERAL PURPOSE	0	\$2,400.00
90022339	PCB NEFF INPUT CONDITIONER	1	\$500.00
21991	PCB NEFF INPUT INTERFACE	1	\$100.00
21941B	PCB NEFF INPUT INTERFACE	1	\$400.00
21942	PCB NEFF INPUT INTERFACE REV C	1	\$490.00
21943	PCB NEFF INPUT REG COUNTER	1	\$175.00
90022628	PCB NEFF INPUT TTL 32 BIT 500 620560	1	\$560.00
90022660	PCB NEFF LOGIC COUNTER STEPPER 4 CHANNEL 620562 500	1	\$1,500.00
21944	PCB NEFF MODE CONTROL	1	\$190.00
21989	PCB NEFF OUTPUT INTERFACE NEFF	1	\$125.00
90022629	PCB NEFF OUTPUT TTL 32 BIT 500 620530	1	\$560.00
22087	PCB NEFF PGA PRO GAIN AMP	1	\$560.00
90023133	PCB NEFF PREAMP	2	\$2,400.00
90023354	PCB NEFF SCSI INTERFACE	1	\$2,400.00
21992	PCB NEFF SUB MULT & LOGIC	1	\$400.00
980010445-004	PCB NSC MEMORY UVAX 4M	1	\$1,025.00
IN-2000	PCB NTS ADAPTER IBM CLON NOVELL SCSI I AND SCSI II HARD DRIVE HD	1	\$199.00
70-18324-00	PCB OPER CONT ASSY DEC RA81	1	\$251.00
25516B	PCB OPT002&B35&B44 HP2250	1	\$1,440.00
AC422	PCB OPTO22 CURRENT-LOOP ADAPTER XT AT	1	\$155.00
3497-66521	PCB OUTGUARD CONTROL	1	\$340.00
8338	PCB PCJ POWER SUPPLY 24V MG600 ASTEC BM70-3402	1	\$82.00
8529146	PCB PCN CRT IBM 286 CGA	1	\$250.00
1503335	PCB PCXT SYS IBM 8529254	1	\$530.00
70-19046-01	PCB PERS&STIFF DEC RA81	1	\$1,367.00
70-19046-01(EX)	PCB PERSONALITY AND STIFFNER	1	\$350.00
375M1202A	PCB PGS MAIN MAX12	1	\$100.00
09865-66523	PCB PHOTO	1	\$20.00
8-FH7-7023-000	PCB PHOTO SENSOR BD.ASSY QMS PSJET+	1	\$12.50
670-7676-02	PCB PICTURE PROC	1	\$1,000.00
670-8539-00	PCB PICTURE PROC-SP	3	\$885.00
90F4020	PCB PIN HEADER	2	\$1.46
71F0157	PCB PLANAR BOARD IBM RISC 6000 POWER STATION 320	1	\$1,750.00
09872-60132	PCB PLOT PROC	1	\$525.00
02670-60070	PCB POWER SUP HP2671	1	\$175.00
670-7685-06	PCB POWER SUPPLY	1	\$270.00
22257000-P(EX)	PCB POWER SUPPLY TVI 970	1	\$85.00
AC8151-01	PCB POWER SUPPLY +5V +12V GPH G0250 G0235 ASTEC	2	\$65.46
661-0395	PCB POWER SUPPLY APM HI RES MONO	1	\$170.00
129069-001	PCB POWER SUPPLY COMPAQ DESKPRO 33M	1	\$160.00
9040-001-4604	PCB POWER SUPPLY DELL VC-2 SMU 4551	3	\$85.80
H7110-00(EX)	PCB POWER SUPPLY DEQ LA120	1	\$200.00
2831991-C	PCB POWER SUPPLY DEQ VR241A	1	\$100.00
58-2418(EX)	PCB POWER SUPPLY HPC 9121	1	\$50.00
02620-60019	PCB POWER SUPPLY LOW VOLTAGE HPC 2621P	1	\$495.00
133546-901	PCB POWER SUPPLY PTX P9012	1	\$760.00
22257000-P	PCB POWER SUPPLY TVI 970	1	\$70.00
29-25540-00(EX)	PCB POWER SUPPLY VR290	1	\$160.00
09845-66511	PCB PRDC BD AY	1	\$900.00
54-15268-01	PCB PREAMP DEC RA60	1	\$201.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
54-17758-01(EX)	PCB PREAMP DEQ RA90/92	1	\$75.00
54007301	PCB PREAMP PA3A1A DISK DR	1	\$72.00
257315-001	PCB PROCESS	1	\$737.45
09872-60131	PCB PROCESSOR	1	\$625.00
672-1110-03	PCB PROCESSOR	1	\$1,500.00
672-0949-02	PCB PROCESSOR	1	\$1,845.00
672-0949-04	PCB PROCESSOR	1	\$1,845.00
672-0144-01	PCB PROCESSOR	1	\$4,500.00
101339-001	PCB PROCESSOR 128K CPQ DESKPRO	1	\$460.00
64F023	PCB PROCESSOR 486 8570 IBM	1	\$325.00
15F7659	PCB PROCESSOR 8570 25MHZ (SEE PN15F7657)	1	\$958.00
C2708A	PCB PROCESSOR BOARD FOR HP 700RX WORKSTATION	1	\$400.00
29-23400-00	PCB PROCESSOR LP25	1	\$650.00
672-0144-00	PCB PROCESSOR TEK 4129	1	\$4,500.00
672-0144-03	PCB PROCESSOR TEK 4129	1	\$4,500.00
70-20624-01	PCB PS+MONITOR BD	1	\$250.00
18-02-1802	PCB PSI IFC LOGIC DRIVER 8400 SYSTEM	2	\$1,500.00
50-02-1260	PCB PSI MIZAR GPIB 8400 SYSTEM	5	\$1,180.00
50-02-1020	PCB PSI REMOTE PROCESSOR 8400 SYSTEM	1	\$900.00
50-02-1170	PCB PSI VME INTERFACE 8400 SYSTEM	1	\$1,530.00
50-02-1250	PCB PSI VME MICROPROCESSOR 8400 SYSTEM	4	\$2,880.00
MVME162/25	PCB PSI VME MICROPROCESSOR 8400 SYSTEM	1	\$4,438.00
104694-001	PCB PTX BACKPLANE	1	\$20.00
132015-901	PCB PTX CONTROLLER P9012 DPMC DCU	1	\$1,000.00
131466-901	PCB PTX CONTROLLER P9012 MCU	1	\$450.00
131666-901	PCB PTX DRIVER P9012 HAMMER DRIVER	1	\$530.00
131682-901	PCB PTX DRIVER P9012 MECHANICAL	1	\$1,200.00
132337-901	PCB PTX DRIVER P9012 MECHANICAL DRIVER	1	\$1,200.00
103240-901	PCB PTX HAMMER DRIVER	1	\$240.00
107329-901	PCB PTX LOGIC A7	1	\$150.00
106594-901	PCB PTX LOGIC B9	1	\$150.00
104712-001	PCB PTX POWER SUPPLY	1	\$240.00
131148-901	PCB PTX POWER SUPPLY P9012	1	\$730.00
102140-001	PCB PTX RIBBON CONTROL	1	\$34.00
25515B	PCB PULSE OPT002&B35&B46 HP2250	1	\$1,720.00
01011DS014	PCB PULSE-INTERRUPT	1	\$950.00
SQ739	PCB Q BUS SCSI COMBINATION CONTROLLER DISK AND MAGNETIC TAPE DRIVES	1	\$881.00
10412-0(UT)	PCB QBUS TO UNIBUS CONVERTOR	1	\$445.00
516-100512-001	PCB QCIC	1	\$6,000.00
672-1136-00	PCB RAM/ROM	1	\$1,070.00
RADIUSTPD(EX)	PCB RDU ADAPTER VIDEO APM MACSE SE TPD TWO PAGE DISPLAY	1	\$200.00
12368-001	PCB READ AMP	2	\$560.00
90-09017-002	PCB READ ANALOG KENNEDY 9610	1	\$575.00
8529251	PCB RECEIVER CARD	1	\$102.00
54-13624-00	PCB REG DEC H766 POW SUP	1	\$377.00
25514B	PCB REL OUT OPT002 HP2250	1	\$1,120.00
09830-66525	PCB ROM BUFFER ASSY	4	\$50.00
12070-60001	PCB R-RACK HPC 2250	1	\$1,150.00
07475-60101	PCB RS232C HP7475	1	\$430.00
630947	PCB S/P	1	\$30.00
030-0067-006/T	PCB SCG DISPLAY 4D/70 VIDEO SN 1239 24BP 32BP DE3	1	\$1,800.00
030-0013-002/G	PCB SCG GRAPHICS 4D/70 SN21739 GF3	1	\$1,890.00
030-0117-001	PCB SCG MEMORY GTX MC2 WITH 16 MEG INSTALLED	1	\$3,200.00
030-8044-003	PCB SCG MOTHER CPU HP1 SILICON GRAPHICS INDIGO SYSTEM	1	\$4,700.00
20301	PCB SEA CONTROLLER ST225 ST-225 DISK	2	\$50.00
20549-021	PCB SEA CONTROLLER ST-4096 PART OF HARD DISK	1	\$280.00
90023198	PCB SER REC	1	\$5,800.00
70001301	PCB SERIAL I/F	1	\$120.00
70-19045-01(EX)	PCB SERVO	1	\$685.00
121050	PCB SERVO CONTROL PROCESSOR	1	\$750.00
PAR4110-01	PCB SIMM 1MB 100NS SNM 3/60 PAR-1007 501-1239	1	\$55.75
501-1239	PCB SIMM 1MB MEMORY SUN CLON 386	2	\$300.00
501-1314	PCB SIMM 256K 70NS 256KX9	14	\$11.30
030-0133-001	PCB SIMM 2MB SCG MEMORY 4D/210 MC2 100NS	7	\$125.00
J2546A	PCB SIMM JETDIRECT UPGRADE	11	\$30.00
111-203B	PCB SLA MONITOR	1	\$125.00
OC905-000-1150	PCB SMU VIDEO ASSY SMU CM4531	1	\$60.32
29-0081-001	PCB SNG INTERFACE MM1201 DIGITIZER PAD	1	\$190.00
270-1850-01	PCB SNM ADAPTER SBUS SCSI	1	\$225.00
501-1162	PCB SNM CPU 4MB SUN 3/50	1	\$2,200.00
5107-190-0427	PCB SNM DEFLECTION	1	\$250.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
5107-190-0794	PCB SNM DEFLECTION PHILLIPS 19M REV A SUN	2	\$290.00
SR26083A13	PCB SNM POWER SUPPLY DISPLAY TEK 19MH	1	\$161.27
5107-190-0581	PCB SNM POWER SUPPLY PHILLIPS 19M SUN	2	\$150.00
501-1249A	PCB SNM SMD CONTROLLER 3 ROW CONNECTORS XYLOGICS 7053	1	\$1,900.00
501-1667	PCB SNM SUN LOAD	1	\$60.00
501-1236	PCB SNM SUN SCSI SUN-3	1	\$350.00
5107-190-0364	PCB SNM VIDEO PHILLIPS 19M SUN	2	\$175.00
A-8276-098-A	PCB SONY PRINTER VIDEO	1	\$98.63
SOUND 16	PCB SOUND AND CD ROM VARIOUS INTERFACES 16 BIT	1	\$125.00
SND-CLSB16	PCB SOUND CARD 16BIT	1	\$11.62
ST22R	PCB SSU CONTROLLER HARD/FLOPPY RLL	4	\$47.00
TMC1680FVP	PCB SSU CONTROLLER HDA SCSI 16 BIT WITH FLOPPY DISK CONTROLLER ALTERNATE PN ST-02	3	\$129.00
ST-01	PCB SSU CONTROLLER HDA SCSI 8BIT W/O FD CONTROL	6	\$29.00
01011X004	PCB STEPPER CONTROL TSQ CSCAN	1	\$1,045.00
401288303	PCB STO AMPLIFIER 1950 READ	1	\$410.00
43107410	PCB STO AMPLIFIER 1950 SERVO CAPSTAN	1	\$790.00
401689202	PCB STO AMPLIFIER 1950 SERVO REEL	1	\$2,112.00
401595207	PCB STO CONTROLLER 1950 MICRO	1	\$1,014.00
43106506	PCB STO INTERFACE 1950 CONTROLLER MICRO	1	\$703.00
401227303	PCB STO LOGIC 1950 CONTROLLER REEL	1	\$682.00
401649201	PCB STO LOGIC 1950 WRITE DESKEW NRZI	1	\$782.00
403015203	PCB STO LOGIC 1950 PANEL JJ2	1	\$1,084.00
401653501	PCB STO LOGIC 1950 SENSOR COL	1	\$10.00
670-3096-05	PCB STORAGE TEK	1	\$275.00
021992-B	PCB SUB/MUX	1	\$500.00
501-1170	PCB SUN ADAPTER CONTROLLER SCSI	1	\$1,342.00
501-1210	PCB SUN COLOR 19C CG4 FRAME BUFFER	1	\$1,911.00
501-1116	PCB SUN COLOR 19C CGTWO VME	1	\$4,680.00
501-1248(UT)	PCB SUN COLOR FRAMEBUFFER CG4	1	N/A
501-1334	PCB SUN CPU OMB MEMORY W/MONO FRAME BUFFER 3/60	1	\$5,000.00
501-1208	PCB SUN CPU 4MB 16MHZ	1	\$12,500.00
501-1132	PCB SUN MEMORY EXPANSION	1	\$3,120.00
501-1105	PCB SUN SNM SUN-3 FPA FLOATING POINT	2	\$200.00
SPEEDSTAR 64	PCB SUPER VGA 1MEG ISA SPEEDSTAR PRO REPLACES DI-DST24	1	\$28.00
5085-1	PCB SUPERMAC SPECTRUM 8 SERIES 2 MONITOR CONTROLLER IKE APM VIDEO MAC	1	\$400.00
02620-60182	PCB SWEEP	1	\$50.00
M8207-RA	PCB SYNC INTERFACE	1	\$1,950.00
1840401	PCB SYS 64K	1	\$1,224.00
115526-001	PCB SYSTEM 25MHZ CPQ DP386	1	\$1,850.00
286X10	PCB SYSTEM 286 10MHZ 1MB	3	\$90.00
661-1700	PCB SYSTEM APM APPLE QUADRA Q840AV Q840 LOGIC	1	\$1,656.00
113223-001	PCB SYSTEM BOARD 20MHZ CPQ DP386	1	\$1,495.00
60512	PCB SYSTEM BOARD 60360 310 386 SIMM SOCKETS FOR 4MB MEMORY BIOS	2	\$1,340.00
661-0044	PCB SYSTEM BOARD APM APPLE Q650 QUADRA 33MHZ LOGIC	1	\$1,123.20
GIG-PENT	PCB SYSTEM BOARD CLONE PENTIUM 133 MHZ	1	\$80.18
90X9533	PCB SYSTEM BOARD PS/2 MODEL 50 IBM	1	\$175.00
60585	PCB SYSTEM DELL 316LT NO MEMORY	1	\$460.00
106434-001	PCB SYSTEM PROCESSOR	1	\$835.00
670-3536-09	PCB TABLET CONTROL	2	\$600.00
FT-FA	PCB TAPE BKUP INTFC	1	\$147.00
670-3559-05	PCB TC2	1	\$325.00
670-3092-05	PCB TC-2	1	\$200.00
670-3559-03	PCB TC2 TEK	1	\$325.00
670-3093-02	PCB TC3 TEK 4014-1	2	\$157.50
20037	PCB TCA ADAPTER XT VIDEO MULTI	4	\$479.00
20037	PCB TCA VIDEO IBM CLON GRAPHICS	1	\$690.00
670-3091-07	PCB TCI	1	\$400.00
670-6578-00	PCB TEK DISTRIBUTION AC	1	\$65.00
670-6579-00	PCB TEK DISTRIBUTION DC	1	\$43.00
670-6709-00	PCB TEK INTERCONNECT TABLET	1	\$90.00
670-3093-07	PCB TEK TEK 4014	1	\$260.00
670-4277-00	PCB TEK 4014/12	1	\$475.00
670-6495-00	PCB TEK 4114 GENERATOR VECTOR	1	\$1,205.00
670-8985-00	PCB TEK 4692	1	\$500.00
670-3293-01	PCB TEK ADAPTER 4014 DISPLAY INTERFACE	1	\$23.00
670-3097-00(EX)	PCB TEK AMPLIFIER 4014 HARD COPY	1	\$135.00
670-3661-07	PCB TEK CBA TIMING	1	\$305.00
670-3147-05	PCB TEK CHAR GEN TEK	2	\$440.00
670-2194-08	PCB TEK COMM 4014 OPTIONAL	1	\$700.00
670-2194-01(EX)	PCB TEK COMM 4014 DATA	1	\$340.00
670-2194-08	PCB TEK COMM INTERFACE TEK 4014	1	\$700.00



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
672-1162-00	PCB TEK CONTROLLER 4114 DISK	1	\$1,310.00
670-6494-02	PCB TEK CONTROLLER 4114 DISPLAY	1	\$850.00
670-6669-02	PCB TEK CONTROLLER 4114 RAM	5	\$405.00
672-1159-01	PCB TEK CONTROLLER 4114 TABLET	1	\$565.00
670-4104-06	PCB TEK CONTROLLER TEK HARD COPY	2	\$200.00
670-3559-03(EX)	PCB TEK CONTROLLER 4014 TC2	1	\$290.00
670-3093-02(EX)	PCB TEK CONTROLLER 4014 TC-3	1	\$360.00
670-7687-01(EX)	PCB TEK CONVERGENCE 4109	1	\$295.00
670-3560-00	PCB TEK CONVERTER 4014 LEVEL	1	\$53.00
EFDB 1229	PCB TEK CONVERTER 4014 DIGITAL TO ANALOG	7	\$10.00
670-3095-01	PCB TEK DEFLECTION 4014 AMPLIFIER	1	\$180.00
670-7686-05(EX)	PCB TEK DEFLECTION 4109	1	\$420.00
670-3095-04	PCB TEK DEFLECTION AMPLIFIER TEK	1	\$725.00
670-8151-15(EX)	PCB TEK DIGITAL PIGGY BACK 4109	1	\$185.00
670-3372-01	PCB TEK DISCRETE PLOT 4014 TEK	1	\$525.00
670-7935-16	PCB TEK DISP CONT TEK4105	1	\$985.00
670-3519-03	PCB TEK DISPLAY 4014 CONTROL	1	\$175.00
670-3519-03(EX)	PCB TEK DISPLAY 4014	1	\$325.00
670-3147-00(EX)	PCB TEK DISPLAY 4014 CHARACTER GENERATOR	1	\$345.00
670-6494-04	PCB TEK DISPLAY CONT TEK 4114	1	\$655.00
670-3294-04	PCB TEK DISPLAY CONTROLLER TEK 4014	1	\$140.00
670-6494-03(EX)	PCB TEK DISPLAY CONTROLLER 4114	1	\$385.00
670-8733-01	PCB TEK DRIVE 4692	1	\$500.00
670-3372-00(EX)	PCB TEK GRAPHICS 4014 DISCRETE PLOT	1	\$370.00
670-3097-01	PCB TEK H.C. AMP TEK4014	2	\$225.00
670-3097-01	PCB TEK HC AMP	2	\$107.00
670-3094-04	PCB TEK HIGH VOLTAGE 4014 Z AXIS	1	\$230.00
670-3094-09	PCB TEK HIGH VOLTAGE + Z AXIS 4014 TERM	1	\$500.00
670-8149-03(EX)	PCB TEK HIGH VOLTAGE 4109	1	\$260.00
670-8149-01	PCB TEK HV 4109	1	\$385.00
672-1000-03	PCB TEK HV&ZAXIS BD	2	\$505.00
670-3559-05	PCB TEK IC2 4014 TERM	1	\$325.00
670-6099-00	PCB TEK INTERFACE 4105	1	\$100.00
670-5163-01	PCB TEK INTERFACE 4114	1	\$70.00
672-1160-01	PCB TEK INTERFACE 4114 PERIPHERAL PORT 3	1	\$945.00
670-9926-02	PCB TEK INTERFACE 4693 4 PORT	1	\$1,450.00
670-8346-00	PCB TEK JUMPER 4692	1	\$40.00
670-7564-00	PCB TEK KEYBOARD 4014 GRAPHIC INPUT	1	\$1,400.00
119-1305-03	PCB TEK KEYBOARD 4114	2	\$345.00
119-0483-00(EX)	PCB TEK KEYBOARD 4014	1	\$260.00
670-3147-00	PCB TEK LOGIC 4014 CHARACTER GENERATOR	1	\$440.00
670-3097-00	PCB TEK LOGIC 4014 HARD COPY AMP	1	\$225.00
670-3372-00	PCB TEK LOGIC 4014 PLOT DISCRETE	1	\$710.00
670-3093-05	PCB TEK LOGIC 4014 TC3	1	\$150.00
670-3559-03	PCB TEK LOGIC 4014 TC3	1	\$200.00
670-3091-05	PCB TEK LOGIC 4014 TCI	1	\$400.00
670-3089-03	PCB TEK LOW VOLT PS TEK	1	\$87.50
670-4200-07	PCB TEK MAIN TEK 4631	1	\$360.00
672-1111-00	PCB TEK MEMORY 4114 RAM ROM	2	\$1,000.00
670-0950-02	PCB TEK MEMORY 4114 RAM/ROM	1	\$1,220.00
672-1111-00(EX)	PCB TEK MEMORY 4114 RAM ROM	1	\$240.00
672-0950-02	PCB TEK MEMORY 4114 RAM ROM	2	\$1,220.00
670-4277-00	PCB TEK MEMORY BUFFER TEK 4014	2	\$475.00
670-3187-00	PCB TEK MODEM 4014 SERIAL	1	\$100.00
670-3090-00	PCB TEK MOTHER 4014	1	\$180.00
670-2310-02	PCB TEK MOTHER 4014 ACCESSORY	1	\$100.00
670-7062-01	PCB TEK MOTHER 4114	2	\$340.00
670-3090-01	PCB TEK MOTHER TEK 4014	1	\$180.00
670-3090-00(EX)	PCB TEK MOTHER 4014-1	1	\$280.00
670-1743-02(EX)	PCB TEK MOTHER 4014-1 EXTENDER	1	\$240.00
670-7062-01	PCB TEK MOTHER 4114	1	\$340.00
670-7063-00	PCB TEK MOTHERBOARD 4114 EXTENDER	2	\$450.00
672-0489-01	PCB TEK MUX 4631	1	\$400.00
670-2194-07	PCB TEK OPT.COMM	1	\$364.00
670-2194-01	PCB TEK OPT.COMM	2	\$364.00
670-8593-00	PCB TEK PICTURE PROCESSOR	1	\$775.00
670-3089-06	PCB TEK POWER SUPPLY	1	\$175.00
670-3089-00	PCB TEK POWER SUPPLY	1	\$200.00
620-0294-04	PCB TEK POWER SUPPLY 4114	1	\$2,420.00
670-8247-00(EX)	PCB TEK POWER SUPPLY 4109	1	\$220.00
670-7685-04(EX)	PCB TEK POWER SUPPLY 4109	1	\$365.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
670-8613-08	PCB TEK POWER SUPPLY GMA-303/4 4115 4129	1	\$1,655.00
672-1153-02	PCB TEK PROCESSOR 4114	1	\$1,830.00
670-3292-03	PCB TEK PROCESSOR TEK 4014	1	\$705.00
672-1110-01(EX)	PCB TEK PROCESSOR 4114	1	\$530.00
672-1135-04	PCB TEK PROCESSOR 4115	2	\$1,695.00
672-1110-02	PCB TEK PROCESSOR TEK4114	1	\$1,800.00
670-7196-15	PCB TEK RAM 3 4109	1	\$410.00
672-1111-00	PCB TEK RAM/ROM TEK4114	1	\$900.00
670-3096-02	PCB TEK STORAGE	1	\$275.00
670-3096-00(EX)	PCB TEK STORAGE 4014	1	\$225.00
670-3096-02	PCB TEK STORAGE BD	2	\$275.00
670-3536-09	PCB TEK TABLET CONTROL 4014-1	1	\$1,000.00
670-3092-05	PCB TEK TC-2 TEK4014-1	2	\$500.00
670-3093-02	PCB TEK TC-3	1	\$1,260.00
670-3091-07	PCB TEK TCI	1	\$400.00
670-7936-17	PCB TEK TERM CONT TEK4105	1	\$800.00
670-6495-00(EX)	PCB TEK VECTOR GENERATOR 4114	1	\$330.00
670-7688-02(EX)	PCB TEK VIDEO 4109	1	\$435.00
670-8611-05	PCB TEK VIDEO TEK 4129 W/ PCB SIGNAL I/F 670-8552-01	1	\$375.00
670-5681-00	PCB TEK4114	1	\$200.00
70-20814-02	PCB TERMINAL CONTROL	1	\$500.00
GP-09	PCB TESH GPIB IEEE CSCAN GP-09	1	\$950.00
02670-60002	PCB THERMAL PRINT	1	\$50.00
02670-69015	PCB THERMO PRINT	1	\$340.00
25594-60001	PCB THERMO REF CONN HP2250	1	\$360.00
670-3661-07A	PCB TIMING	1	\$20.00
670-3661-03	PCB TIMING TEK	1	\$152.50
165005B	PCB TRL LOGIC 195	1	\$975.00
402000205	PCB UC	1	\$685.00
M9312	PCB UNIBUS BOOT TERM	1	\$948.00
8-RG1-0287-030	PCB VARISTOR QMS PSJET+	1	\$13.56
670-6495-00	PCB VECTER GEN TEK4114	1	\$1,150.00
109253-001	PCB VGA VIDEO CONTROLLER CPQ DP386	1	\$325.00
670-7688-02	PCB VIDEO	1	\$460.00
111-203B	PCB VIDEO	2	\$70.00
2226900	PCB VIDEO	1	\$100.00
661-0452	PCB VIDEO 2-PAGE MONITOR APPLE APM 2PDMON	1	\$260.00
54-17282-00(EX)	PCB VIDEO 8 PLANE COLOR 3100-V	1	\$405.00
29-28047-01	PCB VIDEO AMP CRT PGB INTERFACE ASSEMBLY DEQ VRT19DA	1	\$60.00
29-27565-01(EX)	PCB VIDEO ASSEMBLY ASSY VR299	1	\$273.00
09816-66581	PCB VIDEO BOARD	1	\$100.00
70-27010-01	PCB VIDEO COLOR DEQ VR320	1	\$154.00
PMAG-C	PCB VIDEO CONTROLLER DEQ A500/3	1	\$125.00
PWE-264A(EX)	PCB VIDEO DRIVER NIF JC1601 INTERFACE MULTISYNC 4D	1	\$67.00
EGA-350	PCB VIDEO EGA CGA MDA HERCULES	4	\$39.00
1501529(EX)	PCB VIDEO EGA IBM 1501529	1	\$20.00
EGA(EX)	PCB VIDEO EGA QUADRAM QUAD EGA+	2	\$20.00
EGA-VIDEO7(EX)	PCB VIDEO EGA VIDEO7 VEGA	2	\$20.00
CT920A03701	PCB VIDEO MBI HL6605NT DIAMOND SCAN	1	\$323.40
9900016	PCB VIDEO PPR PCPC PCPC2	1	\$100.00
5154VIDMOD	PCB VIDEO RGB DISPLAY MODULE IBM 5154	1	\$50.00
661-0655	PCB VIDEO RGB21 APPLE APM	1	\$809.10
670-8862-01	PCB VIDEO SYNC TEK 4109E	1	\$425.00
1504900	PCB VIDEO WITH PRINTER PORT IBM MONO 8529148 MG108 MG110	2	\$10.00
25510B	PCB VOLT CURR OPT002 HP2250	1	\$1,830.00
09872-60280	PCB VR	1	\$130.00
WD1002-27X	PCB WTD CONTROLLER XT HD RLL	1	\$79.00
WD1004A-WX1(EX)	PCB WTD CONTROLLER DISK FIXED MFM HARD DRIVE XT	1	\$80.00
WD1002S-WX2A(EX)	PCB WTD CONTROLLER HARD DRIVE ONLY XT DISK FIXED MFM	1	\$80.00
MMR-5C	PCB WYLE	0	\$15.00
EFDB-1572-1	PCB WYLE ADAPTER 9110 DIA INP NEFF	1	\$600.00
EFDB-799A-1	PCB WYLE INPUT 9404 DIGITAL	2	\$3,500.00
EFDB-2021	PCB WYLE INTERFACE 9006 SMART CARD	1	\$3,500.00
516-100676-001	PCB.MODC INTERRUPT 32/87 ISP4	3	\$10,068.00
670-8593-01	PCBA PICTURE PROCESSOR TEK4129	1	\$775.00
31-1127-01	PCBA PROTOCOL B INTERFACE CKS D620	1	\$181.00
670-8569-01	PCBA TILING MEMORY TEK4129	1	\$3,800.00
670-8570-02	PCBA TILING PROCESSOR TEK4129	1	\$6,200.00
670-5723-04	PCBA TIMING OPTION 8 USE FOR DEC VT100 OR VT105 TERMINALS ONLY	1	\$370.00
29-23401-00	PCBA TIMING/STATUS.LP25	1	\$454.00
M7994	PCL BOARD	1	\$1,250.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
88101	PEN CHART RECORDER	6	\$15.00
11-2823-33	PEN ANALOG GOULD BRUSH	3	\$53.90
11-2823-35	PEN ASSEMBLY GOULD 2800 GOULD 2800S STRIP CHART RECORDER	3	\$50.40
1006S	PEN BIC BLACK MEDIUM POINT	76	\$0.08
1007	PEN BIC RED MEDIUM POINT	18	\$0.13
64-04-0101-03	PEN BLACK STRIP CHART RECORDER SOLTEC	3	\$16.25
4270	PEN BLUE METAL ROLLER FINE POINT	8	\$1.05
64-04-0103-03	PEN BLUE STRIP CHART RECORDER SOLTEC	2	\$16.25
64-04-0108-03	PEN BROWN STRIP CHART RECORDER SOLTEC	2	\$12.40
18-03402	PEN CARRIAGE	1	\$18.00
07470-20015	PEN CARRIAGE MACHINE	1	\$85.00
5081-1191	PEN DISPOSABLE BLUE	2	\$9.19
07130-62500	PEN DISPOSABLE BLUE HP 7132A STRIP CHART RECORDER	3	\$13.05
5081-1190	PEN DISPOSABLE RED	1	\$9.19
07130-62510	PEN DISPOSABLE RED HP 7132A STRIP CHART RECORDER	4	\$12.25
07470-60180	PEN DR MOT ASSY RED HP7470	1	\$100.00
11-2873-20	PEN EVENT GOULD BRUSH	4	\$35.90
17477	PEN FELT BAROGRAPH	1	\$6.50
17845P	PEN FELT TIP ASSORTED COLORS 0.3MM ISSUE 1 PG HP 7475A	1	\$11.58
64-44-01-0101-03	PEN FELT TIP BLACK	1	\$26.80
64-44-01-03-03	PEN FELT TIP BLUE	2	\$24.35
64-44-01-02-03	PEN FELT TIP RED	1	\$26.80
4271	PEN GREEN METAL ROLLER FINE POINT	2	\$1.11
64-04-0104-03	PEN GREEN STRIP CHART RECORDER SOLTEC	2	\$16.25
07470-40018	PEN HOLDER	1	\$35.00
09872-60035	PEN HOLDER ASSY HP9872	2	\$18.00
64-04-0106-03	PEN PURPLE SOLTEC	2	\$12.40
4269	PEN RED METAL ROLLER FINE PT.	3	\$1.03
64-04-0102-03	PEN RED STRIP CHART RECORDER SOLTEC	2	\$13.65
QI-0004	PEN-BLACK PEN BLACK 2307A	5	\$13.83
7759	PENCIL LEAD RED W/ERASER WOOD CASED	6	\$0.30
5755	PENCIL NO. 2 LEAD	20	\$0.07
P2-FAN-BB	PENTIUMIII FAN SLOT1-SECC	1	\$29.99
3670003	PGA CABLE NEFF 620	3	\$8.25
780	PHONE PLUG	2	\$3.63
1990-0034	PHOTO CONDUCTOR	7	\$8.75
1990-0956	PHOTO SENSOR	5	\$7.00
151-0648-00	PHOTO TRANSISTOR	2	\$3.80
NSL-3140	PHOTOCELLS HP9830	3	\$5.00
07595-60229	PHOTOSENSOR/LED PHOTO SENSOR LED HPC 7596C	1	\$17.50
RB1-2126	PICKUP ROLLER HPC LASER4	1	\$7.90
RG1-1792	PICKUP ROLLER ASSEMBLY	1	\$34.95
SSFR1.6AF003	PICO FUSE 125 VOLT 1.6 AMP	3	\$2.26
1251-3874	PIN	3	\$1.00
131-0677-00	PIN	21	\$1.00
CAA2797B	PIN AC	15	\$1.00
CAA5295A	PIN DELICATE	0	\$1.00
61118	PIN MALE MOLEX	20	\$0.10
60620-1	PIN .084I DIA	53	\$1.00
J35433 323 1	PIN 4731 TESH CSCAN BRIDGE	1	\$200.00
103429-001	PIN ANTI-ROTATION DEVICE	1	\$11.00
800257-041	PIN DOWEL	2	\$1.00
801515-418	PIN DOWEL	2	\$1.00
801515-430	PIN DOWEL	2	\$1.00
02 09 1119	PIN FEMALE .093I MOLEX	8	\$1.00
02 06 1132	PIN FEMALE .62I	30	\$1.00
NEWARK 90F5083	PIN HEADER SLEEVE 90F5083	5	\$0.41
89F2115	PIN HOUSING - MR SERIES - 9 MATRIX	3	\$0.60
1600-1045	PIN SCM	3	\$10.00
1600-0988	PIN SCM-L	5	\$24.00
667-100020-001	PIN SOCKET MODCOMP	24	\$0.25
667-100003-001	PIN WREN MODCOMP	28	\$0.40
103631	PINCH ROLLER	4	\$1.00
5061-7623	PINCHWHEEL LEFT RIGHT CHASSIS ASSY	3	\$26.00
667-200002-004	PINS AC PLUG	15	\$1.00
DB0300	PISTONS	4	\$73.00
1531-7110	PIVOT BLOCK	2	\$15.25
FG0275CI	PKG COPPER SEALS 1 7/8 IN OD	2	\$17.00
ESS-42CR	PLASTIC TABS INDEX TABS FOR HANGING FILE FOLDERS CLEAR	4	\$1.01
551-100519-001	PLATE CABLE	1	\$2,621.00
342-0458-00	PLATE INSULATOR	3	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
386-5090-01	PLATE INTCON INK TEK 4692	4	\$27.00
386-5121-03	PLATE INTERCONNECT MAINTENANCE FLUID TEK 4692	1	\$39.00
17072-20074	PLATE PAPER ADJ	1	\$18.00
RA1-4167	PLATE PIN LEFT FUSER LASER2	3	\$3.00
RA1-4168	PLATE PIN RIGHT FUSER LASER2	2	\$2.50
970-1128	PLATE STOP CASSETTE	4	\$0.90
118-6790-00	PLATEN MECH SECT NO 4 TEK 4693	2	\$55.00
101784-002	PLATEN ASSY	1	\$50.00
118-7883-00	PLATEN BRAKE SPRING LEFT AND RIGHT	2	\$1.40
1002964	PLATEN KNOB EPA FX-850 FX-1050 LQ-850 LQ-1050	2	\$4.29
1047207	PLATEN KNOB IBM 4201 PROPRINTER	1	\$0.45
8K43:28943-306	PLATEN PEN	5	\$13.00
28941-307	PLATEN PRINT HEAD	4	\$18.00
28943-306	PLATEN RECORDING PEN	1	\$15.60
661-76153-P1	PLUG 4P P1 APPLE	4	\$1.50
2-330061-1	PLUG BNC RG-51 CONNNECTOR	3	\$1.90
4921	PLUG DOUBLE BANANA 4 CONTACT 1" WIDE X 1.125" LONG	9	\$1.53
16HP	PLUG HEADER 16 PIN HEADER PLUG	5	\$2.00
5935-988-7828	PLUG HOSPITAL 115VAC AC	7	\$0.96
46F2063	PLUG HOUSING	2	\$0.56
PJ055B	PLUG TELEPHONE	5	\$2.81
297	PLUG TELEPHONE CLAMP-LUG TERMINALS 3 CONDUCTOR SWITCHCRAFT INC. LITTLEPLUG PART NO.297	4	\$5.72
HN3P-34-4-1	PLUNGER LATCH	10	\$3.10
54-08778-00	PLUT PRIORITY BR5	1	\$17.00
5959-9333	POD WIRES 5 PER PACK	1	\$45.00
15-04-0219	POLARIZED KEYS MOLEX	10	\$0.16
GC10-3702	POLYSTYRENE Q-DOPE	4	\$1.58
71602-020	POSITION 2X10 CONNECTOR 20P FEMALE	3	\$0.70
667-100003-002	POST WREN MODCOMP	5	\$0.40
3352H-1-503	POT 50K TRIMMER BOURNS	2	\$0.43
594-43P502	POT 5K 20 TURN HORIZONTAL	3	\$1.89
PQ11-137	POT 1 MEG 5905-518-8091 NO LONGER AVAILABLE	3	\$3.83
67F5857	POT 1 MEG OHM POT 1M OHM	2	\$2.76
3323W-1-104	POT 100K SINGLE TURN BOURNS	3	\$1.00
2100-1736	POT 100OHM & 3K DUAL	1	\$8.25
3500S-42-103	POT 10TURN 10K	2	\$33.35
3500S-42-102	POT 10TURN 1K OHM 3W MFR. SPECTRAL SERIES 543	2	\$43.10
60F2193	POT 13UA 1K TRIMMER SINGLE TURN VERTICAL	3	\$1.20
60F2200	POT 14L1A 10K TRIMMER SINGLE TURN VERTICAL	2	\$1.20
60F2205	POT 15L1A 100K TRIMMER SINGLE TURN VERTICAL	2	\$0.93
1896047A07	POT 2.5K SINGLE TURN HORIZONTAL MOUNT	1	\$2.32
12F1147	POT 200 OHM 3W SERIES U80 PCB WIREWOUND TRIMMER NEWARK CATALOG 113 PAGE 262	4	\$2.95
311-1223-00	POT 250 OHM TEK4014-4 SINGLE TURN VERTICAL	3	\$2.15
60F2203	POT 253L1A 25K TRIMMER SINGLE TURN VERTICAL	2	\$1.03
1897626A04	POT 25K	4	\$1.96
1897807A01	POT 500K	5	\$3.24
311-1164-00	POT 50K TEK4631 SINGLE TURN VERTICAL	3	\$1.40
60F2197	POT 53L1A 5K TRIMMER SINGLE TURN VERTICAL	2	\$1.24
1897626A06	POT 5K	1	\$2.40
83C1D-E20-J13	POT 5K BOURNS	9	\$9.05
67F5782	POT 5K 25 TURN SIDE ADJ TYPE 064X502 FOR HASTINGS FLOW CONROLLER	2	\$2.67
04F3027	POT 5K OHM 10 TURN TYPE 83A1A-B28J13 FOR HASTING 400	3	\$15.50
1896047A10	POT 5K SINGLE TURN HORIZONTAL MOUNT	3	\$0.89
1896047A11	POT 5M SINGLE TURN HORIZONTAL MOUNT	1	\$1.65
569-91AR100K	POT CERMET TRIMMER POT 100K OHM	2	\$1.02
569-91AR20K	POT CERMET TRIMMER POT 20K OHM	2	\$0.72
569-91AR2K	POT CERMET TRIMMER POT 2K OHM	2	\$2.07
569-91AR500	POT CERMET TRIMMER POT 500 OHM	2	\$0.72
5905-00-1262027	POT RESISTOR 10K	2	\$0.10
5905-00-1262024	POT RESISTOR 1K	1	\$0.10
3069P-1-104	POT TRIM 100 KOHM 10 TURN HORIZONTAL	3	\$1.79
452-579	POT TRIM 100 OHM	3	\$1.24
3069P-1-103	POT TRIM 10K 15 TURN HORIZONTAL MFG.BOURNS TYPE 3006P-1-103	3	\$1.63
3069P-1-500	POT TRIM 50 OHM 10 TURN HORIZONTAL	3	\$3.52
3069P-1-503	POT TRIM 50K 10 TURN HORIZONTAL	2	\$1.66
452-646	POT TRIM 50K OHM	3	\$1.24
67F5785	POT TRIMMER 25K OHM SPECTROL	2	\$2.72
650-500001-007	POT TRIMPOT 1K MODCOMP	1	\$12.00
16776463-008	POT TRIMPOT 2K +/-10% .3WATT POT	2	\$23.00
754-1265	POTENTIOMETER 10K	3	\$0.81
1818003114	POTENTIOMETER 10K	2	\$7.88

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
87-008	POTENTIOMETER 10K HORIZONTAL MOUNT	2	\$0.79
23347-0300	POTENTIOMETER 10K LIN-CENTRE DETENT	9	\$5.52
3386R-103-ND	POTENTIOMETER 10K OHM 3/8 SQ CERM ST SL	4	\$1.30
525-1315	POTENTIOMETER 10-TURN HYBRID. MFR'S TYPE 8146R10KL.25.	1	\$39.58
754-2405	POTENTIOMETER 200 OHM BOURNS PART NUMBER 3292W-1-201	1	\$16.50
87-062	POTENTIOMETER 2K VERTICAL MOUNT	1	\$2.99
87-033	POTENTIOMETER 50K HORIZONTAL MOUNT	2	\$0.79
87-082	POTENTIOMETER 5K HORIZONTAL MOUNT	1	\$0.79
17C1-2488	POTENTIOMETER 5K OHM PRECISION JOYSTICK FLIGHTSTICK SERVO MOUNT	2	\$88.40
605010	POTENTIOMETER DUAL 250 OHMS & 25 OHMS 2W & 1.5W	2	\$40.00
08F723	POTENTIOMETER 50K OHM TYPE RV4LAYSAS03A	1	\$9.95
970-1940	POTENTIOMETER POT SPECTROL 536-1-1-103 10K 10 TURN WIRE WOUND PRECISION PONTENTIOMETER	3	\$15.42
12F9562	POTENTIOMETER TRIMMER 50K OHM 25 TURN BOURNS 3299X	2	\$2.00
922-0043	POWER ADAPTER 17 WATT POWERBOOK PB170 APM APPLE	6	\$48.60
CBL-3.5	POWER ADAPTER CABLE 4 PIN MALE TO MINI 4 PIN FEMALE	3	\$2.50
076-0121	POWER CHECKER LASER	1	\$125.00
SLA-PC	POWER CORD	2	\$35.00
1332-0153-P1	POWER CORD AC PACE FOR HANDLE PART#1119-00074	2	\$35.00
550-100044-001	POWER DISTRIBUTION PANEL	1	\$500.00
70-15168-00(EX)	POWER ENTRY BRACKET ASSY. DEQ LA120	1	\$50.00
IRF830	POWER FET	2	\$1.10
00085-60990	POWER LIGHT ASSEMBLY	1	\$26.00
ES-5D	POWER MATE SUPPLY	3	\$96.20
1-235-844-1	POWER MODULE DM-32 GDM1952	1	\$17.18
07470-60124	POWER MODULE ASSEMBLY	1	\$25.00
70-18474-01	POWER MODULE DEC RA60	1	\$1,698.00
06A5	POWER MODULE DELTA ELECTRONICS SERIES IEC CONNECTOR FUSE HOLDER SELECTOR SWITCH (115/250) 6A	3	\$6.00
NN-0114	POWER ON/OFF SWITCH FOR B & K 8 CHANNEL MULTIPLEXER	1	\$69.00
OH745-00	POWER REGULATOR -15V 10A DEC	2	\$372.00
661-1660	POWER SUPPLE PB230D DUO DOCK APM APPLE	1	\$112.00
30-21749-01	POWER SUPPLY	1	\$563.00
H7660-A	POWER SUPPLY	1	\$965.24
M2333PS	POWER SUPPLY	1	\$1,100.00
02105-60012	POWER SUPPLY	1	\$1,775.00
H716	POWER SUPPLY	1	\$10.00
H7441	POWER SUPPLY	3	\$10.00
62-1004-2002	POWER SUPPLY	1	\$60.00
30-21749-02(UT)	POWER SUPPLY	1	\$175.00
H7660-A(EX)	POWER SUPPLY	1	\$175.00
102818-001	POWER SUPPLY	1	\$200.00
555-1006(EX)	POWER SUPPLY	1	\$200.00
09845-66583	POWER SUPPLY	1	\$250.00
LMD36	POWER SUPPLY	1	\$305.00
300-1038(UT)	POWER SUPPLY	1	\$350.00
H7842D	POWER SUPPLY	1	\$360.00
620-0466-00(EX)	POWER SUPPLY	1	\$400.00
666-100023-001	POWER SUPPLY	1	\$408.00
670-8612-04	POWER SUPPLY	1	\$455.00
21968	POWER SUPPLY	1	\$690.00
30-23855-01	POWER SUPPLY	1	\$834.00
CT1210	POWER SUPPLY	1	\$1,640.00
620-0294-03	POWER SUPPLY	1	\$1,700.00
2301	POWER SUPPLY (IMC 3000) 6AND3/8"BY2" LLI ZFP240 LACIE EXTERN AL HDA HARD DRIVE DISK 12V 5V	4	\$49.00
D15-35	POWER SUPPLY +- 15V 350 MA	2	\$115.00
ATX	POWER SUPPLY 250 WATT ATX SMALL FOOTPRINT MINI	3	\$26.20
661-0097	POWER SUPPLY APM 16/600PS	1	\$207.00
OPSM1100-0001S	POWER SUPPLY CONTROLLER MSJ MICROTOUCH TOUCHSCREEN	5	\$20.00
GAS PLASMA POWER	POWER SUPPLY GAS PLASMA PC BRAND PORTABLE PCIII	1	\$129.00
SNP-3160	POWER SUPPLY PCB SHOEBOX	2	\$92.88
PC III B/W	POWER SUPPLY PORTABLE PC III VGA B/W	1	\$129.00
90X8626	POWER SUPPLY PS/2 MODEL 70	1	\$70.00
UPS65-1002	POWER SUPPLY SHOEBOX	2	\$75.82
923	POWER SUPPLY +/-15V +5V ANALOG DEVICES	2	\$99.00
62-1004-202	POWER SUPPLY +-12VDC DIGITIZER MM1201	1	\$45.00
H7440-00	POWER SUPPLY +5V DEC	1	\$699.00
29-25089-00	POWER SUPPLY 100V DEQ LN03 LP4080R	1	\$460.00
300-1015(UT)	POWER SUPPLY 100W SUN	1	\$75.00
661-0802	POWER SUPPLY 110/115	1	\$140.40
IM802-22/115A2	POWER SUPPLY 12V	1	\$110.00
666-100039-001(UT)	POWER SUPPLY 12VDC 9250 9230 MOD IM802-22 LH RESEARCH PERIPHERAL IO CONTROLLER	1	\$230.00
661-0920	POWER SUPPLY 150WATT 150W APM 7500	1	\$119.70

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
D-15-100	POWER SUPPLY 15V 100	1	\$51.90
DKS-1804D1	POWER SUPPLY 200W	1	\$135.00
PWS-230-AT-GCH	POWER SUPPLY 200W BABY AT SMALL FOOTPRINT PIGTAIL DELL 220 PW401	4	\$16.52
661-1687	POWER SUPPLY 200W QUADRA APM APPLE 840AV 8100 Q800 MACINTOSH MAC	1	\$154.80
PS220SW	POWER SUPPLY 230W GATEWAY GTW 386 486 WITH PIGTAIL AND PUSH BUTTON ON/OFF SWITCH	1	\$75.00
250W	POWER SUPPLY 230W PC AT DESK L-SHAPED BUILT IN POWER SWITCH	3	\$52.00
30-32506-01	POWER SUPPLY 244W 5V/12V/-12V DEQ 5000 H7878	1	\$450.00
EMA-24C	POWER SUPPLY 24V 2.3A POWER MATE	0	\$51.95
626X2	POWER SUPPLY 24V 3A CARDKEY	1	\$600.00
KD254ST	POWER SUPPLY 250W KD254ST	1	\$270.00
PW201	POWER SUPPLY 250W XT AT FITS XT CASE IBM 5160 CLONE 8088	1	\$55.00
300W	POWER SUPPLY 300W PC AT DESK BUILT IN POWER SWITCH	1	\$89.00
555-1006	POWER SUPPLY 386I	1	\$400.00
ES-5E	POWER SUPPLY 5V 10A W/O COVER	2	\$112.50
93610-001	POWER SUPPLY 5V 150A LOGIC CLASSIC	2	\$100.00
H744	POWER SUPPLY 5V 25A	4	\$440.00
H7441-00	POWER SUPPLY 5V 32A DE	1	\$564.00
S-5-2000	POWER SUPPLY 5VDC 2000MA NEW PART#84-05-220	2	\$170.00
I5SC2A/W/OV(MIL EL	POWER SUPPLY 5VDC 2A	1	\$124.00
84-05-150	POWER SUPPLY 5VDC 500MA	2	\$110.00
666-100037-001(UT	POWER SUPPLY 5VDC 9250 9230 MOD LM11-E2110 LH RESEARCH LOGIC	1	\$150.00
AX-AL624	POWER SUPPLY 6/12VDC 6/12 VOLT DC 16VAC INPUT CARDKEY	3	\$12.95
90022345	POWER SUPPLY 620/300	1	\$1,000.00
661-1688	POWER SUPPLY 86W APM APPLE POWERMAC 6100	1	\$90.00
09845-69980	POWER SUPPLY 9845	1	\$850.00
RG9-0205-000CN	POWER SUPPLY AC MODULE 115V 220V APPLE APM LASER2 HPC LASER2	4	\$160.00
ECV5N9-1	POWER SUPPLY AC/DC 5V @ 9A	3	\$110.00
661-1616	POWER SUPPLY APM APPLE MAC2SI	1	\$225.00
661-0664	POWER SUPPLY APM APPLE Q950 Q900	1	\$360.00
661-0758	POWER SUPPLY APPLE APM MAC2VX 112WATT 112W Q650 C650 Q700 7100	1	\$115.00
661-0508	POWER SUPPLY APPLE APM MULTISCAN 20 DISPLAY MONITOR RGB20	1	\$296.10
KHP4007	POWER SUPPLY APPLE II+ KHP4007	2	\$44.95
661-0348	POWER SUPPLY APPLECOLOR RGB	2	\$160.00
105513-901	POWER SUPPLY ASSEMBLY	1	\$918.00
666-100010-001(UT	POWER SUPPLY ASSEMBLY	1	\$990.00
EPS250-5A(UT)	POWER SUPPLY ASSEMBLY	1	\$1,250.00
666-100010-001	POWER SUPPLY ASSEMBLY 12V	1	\$480.00
666-100011-001	POWER SUPPLY ASSEMBLY 5V	2	\$1,345.00
550-100199-001(UT	POWER SUPPLY ASSEMBLY MODACS BULK	1	\$350.00
550-100197-001(UT	POWER SUPPLY ASSEMBLY MODACS LOGIC	1	N/A
620-0466-00	POWER SUPPLY ASSEMBLY TEK 4014 LVPS	1	\$800.00
334-3214-00(EX)	POWER SUPPLY ASSEMBLY TEK 4114	1	\$485.00
A-1316-059-A	POWER SUPPLY BOARD	1	\$127.30
XL200	POWER SUPPLY BRU ESPL XL200	1	\$900.00
31-1110-02	POWER SUPPLY CARDKEY D620	1	\$760.00
31-2297-01	POWER SUPPLY CKS S320	1	\$104.00
100475-001	POWER SUPPLY COMPAQ	3	\$165.00
112570-001	POWER SUPPLY COMPAQ 386/20E CPQ	1	\$371.00
102927-001	POWER SUPPLY COMPAQ DP286	2	\$285.00
744-0480	POWER SUPPLY CONDOR SHOE BOX 5V-4A +12V-3A -12V-0.8A	1	\$62.00
25PSE110	POWER SUPPLY CONTROLLER INTERNAL MSJ MICROTOUCH TOUCHSCREEN	1	\$85.00
A12C10AC	POWER SUPPLY CONVERTER DC-DC +/-12VDC LA50	1	\$35.00
108065-001	POWER SUPPLY CPQ DP286 DP386	1	\$275.00
33449-69005	POWER SUPPLY DC LASER 2 APM HPC 33440 SAME AS APM 661-0424	3	\$49.00
8-RG1-0222-100	POWER SUPPLY DC MAIN MOTOR DRIVE QMS PSJET+	1	\$242.04
H765-A	POWER SUPPLY DEC	1	\$2,560.00
70-17374-00	POWER SUPPLY DEC VT TERM	1	\$195.00
H7887-AA	POWER SUPPLY DEQ A3300 DEC A3300	1	\$200.00
H7883-YA	POWER SUPPLY DEQ ALPHA WARRANTY UNTIL 8/25/94	1	\$840.00
30-23616-01	POWER SUPPLY DEQ BA123	1	\$580.00
29-26096-00	POWER SUPPLY DEQ LN03+ RIA LP4081	1	\$350.00
H7848	POWER SUPPLY DEQ UVAX2000	1	\$350.00
29-28051-01	POWER SUPPLY DEQ VRT19DA	1	\$60.00
30-21383-01	POWER SUPPLY DEQ VS240	1	\$150.00
ETA-524BV	POWER SUPPLY DUAL +5/+24VDC POWER MATE	1	\$89.00
200V	POWER SUPPLY FOR PARTS	1	\$200.00
661-0343	POWER SUPPLY HD 20SCSI	1	\$60.00
621-0490-04	POWER SUPPLY HIGH VOLTAGE	1	\$1,900.00
661-0425	POWER SUPPLY HIGH VOLTAGE APM LASER2	2	\$226.00
8-RG1-0213-070	POWER SUPPLY HIGH VOLTAGE QMS PSJET+	1	\$120.66
02277-60087	POWER SUPPLY HOC 2277A	1	\$85.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
4800A(EX)	POWER SUPPLY HPC	1	\$200.00
25573A	POWER SUPPLY HPC 2250	1	\$3,000.00
5061-3144	POWER SUPPLY HPC 7974 09133-67120	1	\$210.00
09845-69980	POWER SUPPLY HPC 9845B	1	\$75.00
09895-66504	POWER SUPPLY HPC 9895A	1	\$10.00
9100-4503	POWER SUPPLY HPC C2106A DESKJET 500 9195A SCANJET 88395 88395A 88396 88396A 2276A 2277A	2	\$45.00
01R29804A02-MOT	POWER SUPPLY HV	1	\$289.00
050-2036-02	POWER SUPPLY HV	1	\$690.00
550-100168-001	POWER SUPPLY JAWS	2	\$20.00
550-100197-001	POWER SUPPLY LOGIC	2	\$50.00
620-0019-05	POWER SUPPLY LOGIC TEK4109	1	\$480.00
1310	POWER SUPPLY LOW VOLTAGE	1	\$10.00
02620-69183	POWER SUPPLY LV	1	\$50.00
02620-60183	POWER SUPPLY LV HPC 2621B	1	\$15.00
661-0375	POWER SUPPLY MAC II POWER SUPPLY APM APPLE MAC2 MAC2X	2	\$295.00
661-0370	POWER SUPPLY MAC SE	1	\$150.00
661-0467	POWER SUPPLY MAC2CX MAC2CI APM APPLE	2	\$245.00
666-100044-001	POWER SUPPLY MOD 9088-4	0	\$2,394.00
PQ2333-DEFH	POWER SUPPLY MOD 9088-4 WARRANTY TIL OCT'96 SERIAL #45942P0102	1	\$830.00
666-100035-001(UT)	POWER SUPPLY MOD IPS-2	1	\$375.00
550-100199-001	POWER SUPPLY MOD MODACS	3	\$600.00
661-0397	POWER SUPPLY MODULE APPLE APM RGB MONITOR HI-RES MC2RGB	2	\$184.00
808-864946-002B	POWER SUPPLY NEC LOW VOLTAGE	1	\$365.75
90023047	POWER SUPPLY NEF 620600	1	\$2,200.00
21968	POWER SUPPLY NEFF	1	\$690.00
90022981	POWER SUPPLY NEFF 620500 NEF	1	\$1,500.00
72896504	POWER SUPPLY PA5A1 DISK DR	1	\$795.00
FLU3-40-4AD	POWER SUPPLY PCM-1000-1	1	\$58.00
EMA-5CV	POWER SUPPLY POW MAT 5V 6A	2	\$68.03
EMA-5BV	POWER SUPPLY POW MATE 5V 3A	1	\$32.95
ETA-524DV	POWER SUPPLY POWER MATE	1	\$150.00
78-DSP-PS	POWER SUPPLY PSI DISPLAY UNIT	1	\$500.00
9430810	POWER SUPPLY SCG 210 INDIGO	1	\$870.00
300-1028(UT)	POWER SUPPLY SHOEBOX SUN	1	\$50.00
300-1055	POWER SUPPLY SNM 4/40 SERIES	1	\$115.00
300-1055-02	POWER SUPPLY SNM SUN SPARC10 SS/10	1	\$165.00
A1477873A	POWER SUPPLY SUH 1602 APM APPLE SUPERMAC 16IN 16" CRT DISPLAY	1	\$344.54
300-1020	POWER SUPPLY SUN 3/150 3/140	1	\$800.00
300-1038-04	POWER SUPPLY SUN SNM 4/60 MODEL CR-81	2	\$195.00
620-0005-21	POWER SUPPLY TEK 4105	1	\$255.00
118-8810-00	POWER SUPPLY TEK 4684	1	\$389.00
T310-0010	POWER SUPPLY TOSHIBA T3100	1	\$225.00
PW308	POWER SUPPLY TOWER 230W W/PIGTAIL with pigtail AT 286 386 486 FULL SIZE	2	\$38.00
400823S	POWER SUPPLY TRIMM SHOEBOX +5 +12 REPLACES 300146	3	\$75.00
132324-00	POWER SUPPLY TVD 9220	1	\$50.00
961874-001	POWER TRANSFORMER CIPHER M990	1	\$175.00
00085-60017(EX)	POWER TRANSFORMER ASSEMBLY	1	\$100.00
08F8915	POWER TRANSISTOR TIP-35C NPN USED EDWARDS 700PS	2	\$2.29
08F8924	POWER TRANSISTOR TIP-36C PNP USED EDWARDS 700PS	2	\$2.29
FR-9	PRECISION BELLOW COUPLER	2	\$32.78
8-RG1-0214-000	PRECONDITIONING EXPOSURE ASSY QMS PSJET+	1	\$63.99
XD22100-402	PRESSURE CLIP	4	\$0.25
29-25218-00	PRESSURE ROLLER DEC LN03	1	\$85.00
RB1 2264	PRESSURE ROLLER LWPRO LASER-PRO FUSER	4	\$27.00
8010-297-0593	PRIMER ZINC CHROMATE AEROSOL YELLOW	1	\$1.73
661-0316	PRINT HD IW II	1	\$98.10
70-15085-00	PRINT HD LA120 DECWRITER	1	\$277.00
F404300000	PRINT HEAD EPSON FX100	1	\$65.00
70-09883-00	PRINT HEAD LA36 DEC	2	\$297.00
EP20753B	PRINTED CIRCUIT BOARD	1	\$2.00
02631-60034	PRINTER 2631 ASSY	1	\$1,400.00
00085-60004	PRINTER ASSEMBLY HPC 2621B	1	\$24.00
DEQ LA34	PRINTER CHARACTER	1	\$250.00
HPC 82906A	PRINTER CHARACTER	1	\$532.00
DEQ LA50	PRINTER DEQ LA50 CHARACTER SPARE LOANER	1	\$360.00
579144	PRINTER DOOR DUST COVER	2	\$21.29
EPA FX286E(2)	PRINTER EPA FX286E SPARE LOANER	1	\$330.00
HPC C2106A	PRINTER HPC DESKJET 500 C2106A WITHOUT I/O PCB WITHOUT KEYPAD	1	\$300.00
70-14533-00(EX)	PRINTER MECH.ASSY. DEQ LA120	1	\$319.00
70-09696-00	PRINTER MECHANISM ASSY DEQ LA36	3	\$300.00
FX100	PRINTER MECHANISM FX100	1	\$100.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
NEY LC890	PRINTER NEC LC890 LASER PRINTER NEY	1	\$2,000.00
PAN KXP1180	PRINTER PANASONIC 9PIN DOT MATRIX	1	\$184.00
VC2383	PRINTER RIBBON CARTRIDGE FOR EPSON LQ850	1	\$4.90
C2216	PRINTER RIBBON LQ950 EPSON EPA	1	\$14.00
KX-P145	PRINTER RIBBON PANASONIC KX-P SERIES EST.COST = \$2.36	4	\$10.85
KX-P150	PRINTER RIBBON PANASONIC PAN KX-P2123	6	\$11.90
F404100000	PRINTHEAD	3	\$65.00
F404700000	PRINTHEAD	1	\$91.00
29-24272-00(EX)	PRINTHEAD ASSY DEQ LA50	1	\$180.00
F416100000	PRINTHEAD ASSY EPA LQ850	1	\$190.80
6493172	PRINTHEAD ASSY IBM 4201	1	\$74.00
02670-60162	PRINTHEAD CARRIAGE ASSEMBLY ASSY HP2621P TERM	2	\$195.00
02670-60163	PRINTHEAD CARRIAGE ASSEMBLY ASSY HP2621P TERM "NO LONGER AVAILABLE"	1	\$195.00
29-24272-00	PRINTHEAD DEC LA50	1	\$85.00
F419100000	PRINTHEAD EPA FX-1050 FX850	1	\$132.50
F404100000	PRINTHEAD EPSON FX80 FX85	1	\$78.00
00085-60923	PRINTHEAD HPC & CABLE ASSY	1	\$160.00
136-201618-001A	PRINTHEAD NEC P6/P7	3	\$213.95
54135910	PRINTHEAD OKIDATA OKI U84 U93 ETC	3	\$80.00
SP-G65-46	PRINTHEAD THERMAL VES C2700 MBI 65010	1	\$400.00
1600A	PROBE HIGH VOLTAGE	1	\$150.00
248	PROBE HIGH VOLTAGE HV	1	\$50.00
DM-1	PROBE LOGIC	1	\$102.00
DM-2	PROBE LOGIC	1	\$102.00
DM-3	PROBE LOGIC	1	\$102.00
10525T	PROBE LOGIC HPC 10525T	1	\$20.00
672-0949-01	PROCESSOR	1	\$1,845.00
640-0503-02-CP	PROCESSOR TEK ASSY	2	\$40.00
09845-66538	PROCESSOR HPC LPU	1	\$100.00
23-015M1-00	PROCESSOR P8051 DHV11	3	\$10.00
640-0503-02	PROCESSOR TEK ASSY	1	\$400.00
MODEL PC-13	PROGRAMMING CONNECTOR	4	\$21.00
640-700117-011	PROM	1	\$78.00
661-0715	PS RAM EXPANSION CARD PB100 PB140 PB170 2MB APPLE APM	1	\$195.00
251704-002	PULLEY	1	\$4.00
401-0241-00-CP	PULLEY GROOVED FOR MAIN MOTOR	1	\$20.00
263192-001	PULLEY DPC BAND DRIVE DEQ LP25 LP26 B300 B600 B1000 ROLLER PRINTBAND	2	\$152.83
53531518	PULLEY FUSING DRIVE GEAR HOT ROLLER LNO3 4080	2	\$1.75
5020-6306	PULLEY IDLE	1	\$4.00
5060-0329	PULSE GENERATOR HP9816	1	\$60.00
11-100	PUMP TRICO	1	\$14.69
29-25115-00	PUMP WASHER	1	\$144.00
192726	PUNCH HAND	2	\$50.00
PCA	PUNCH PAPER TAPE VFU 1210 6644	1	\$100.00
POF	PURCHASE ORDER FORMS TRACTOR FEED PURCHASE AUTHORIZATION FORMS 700/BOX	6	\$182.00
03458-43701	PUSH ROD POWER ON/OFF	1	\$8.25
6515-303-8250	QTIP APPLICATOR Q-TIP Q-TIPS QTIP QTIPS SWAB WOOD STICK W/COTTON TIP	26	\$0.31
H13-201-5	QUAD ANALOG SWITCH NEFF 470 CAL CARD	2	\$4.93
078971132X	QUE USING LINUX 3 BOOK	1	\$26.81
23953142	RADIAL SHAFT SEAL	1	\$14.19
239-53-124	RADIAL SHAFT SEAL TRIVAC D4A VACUUM PUMP	2	\$15.28
949 0151	RAIL LEFT GUIDE LASER2	3	\$5.50
ATRAIL	RAIL RAILS SET MOUNTING DISK DRIVE IBM AT CLONE 286	4	\$0.55
949 0153	RAIL RIGHT GUIDE LASER2	1	\$5.50
1818-1776	RAM GRAPHICS 16K	1	\$11.00
DS1230Y-200	RAM NONVOLATILE STATIC RAM 32K X 8 5V 28 PIN NEWARK CAT# 114 PAGE 170	1	\$16.50
8530-162-5629	RAZOR BLADE	326	\$0.03
L54	READER PROXIMITY	3	\$251.25
922-0790	REAR DOOR COVER APM APPLE PB540C	8	\$1.44
970-1129	REAR LATCH UPPER	2	\$0.90
768838	REBUILD KIT	4	\$15.00
52613	REBUILDKIT VARIAN SD200 ALCALTEL VACUUM PUMP	1	\$253.00
18120	RECEPTACLE MECHANICAL FASTENER	8	\$3.00
7595	RECEPTACLE TWIST	1	\$3.00
076-0710-003	RECTIFIER BRIDGE CKS STRIKE	2	\$24.00
1-021-0424	RECTIFIER	1	\$3.00
PMR27K100	RECTIFIER	4	\$5.01
PMR31K100	RECTIFIER	4	\$5.07
152-0406-00	RECTIFIER	1	\$3.00
152-0826-00	RECTIFIER	3	\$8.00
152-0497-00	RECTIFIER 600V 1.5A SQUARE PACKAGE REF. DES. CR1721	2	\$5.00



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
SK3043B	RECTIFIER 3043 FAST RECOVERY HDS200	5	\$3.45
653-600047-001	RECTIFIER 50A 1.25V 300V MODCOMP	8	\$53.00
SR-1	RECTIFIER ASSEMBLIES (1-27 VDC)	1	\$15.60
152-0462-00	RECTIFIER BRIDGE	6	\$2.00
152-0488-00	RECTIFIER BRIDGE SILICON	2	\$2.36
SK3650	RECTIFIER BRIDGE 35A	1	\$12.00
SK3648	RECTIFIER BRIDGE SK3648 KBP04 400PRV 2A ECG168	2	\$2.62
MDA990-1	RECTIFIER FULL WAVE BRIDGE SK3679 200PRV 25A	2	\$8.70
ECG5552	RECTIFIER SILICON CONTROLLED SK6652 SCR	3	\$4.25
152-0200-00	RECTIFIER TEK 4014-1	4	\$14.75
FEP16DT	RECTIFIER-DUAL SI 200PRV 16A TO220 ECG6240 NTE6244 SK9777	2	\$1.42
4502-0005-1	REED RELAY	2	\$15.54
90022340	REF SUPPLY/RELAY DVR	1	\$400.00
699-0323	REGISTRATION SHUTTER ASSY TRANSFER ASSEMBLY LASER+ 2686	3	\$45.90
LM350K	REGULATOR	2	\$4.30
STK 7408	REGULATOR	1	\$20.34
MCT-2	REGULATOR	2	\$2.00
LM304	REGULATOR IC.REF U4 -6V	2	\$11.00
TRA012	REGULATOR +/- 15 VOLT REGULATOR	1	\$17.55
3122V	REGULATOR +12V	1	\$7.50
516-100150-001	REGULATOR +12V	1	\$355.00
LM340K-15	REGULATOR +15V	2	\$5.75
MC78L05 ACP	REGULATOR +5 VOLT REGULATOR	2	\$0.55
LM320T-12	REGULATOR -12V REGULATOR	3	\$1.27
MC7915CT	REGULATOR -15 VOLT REGULATOR 1.5 AMPS	3	\$0.50
MC79L05 ACP	REGULATOR -5 VOLT REGULATOR	2	\$0.57
516-100473-001	REGULATOR 5V	1	\$200.00
550-100198-001	REGULATOR ANALOG	1	\$700.00
19-18352-00	REGULATOR VOLTAGE	1	\$87.00
510K-FC-1/4W	REISTOR 510K OHM 1/4W FIXED COMPOSITION	8	\$0.40
3120003	RELAY	10	\$18.50
CR3202-5-700	RELAY	4	\$23.00
03495-89501	RELAY	6	\$35.00
430430001	RELAY 12V	17	\$3.05
430440732	RELAY 12V CAN	2	\$29.75
148-0055-00	RELAY ARMATURE	1	\$145.00
RA30382121	RELAY IC	3	\$6.62
528-171-21	RELAY N.O. DIP PACKAGE	2	\$5.80
Z707-ND	RELAY PC MOUNT 12VDC	2	\$3.92
DM2C	RELAY THERMOSEN NEFF CAL SUPPLY K4	2	\$44.80
45F133	RELAY TYPE R10-E1Y4-J2.5K 4PDT 8.4 MILLIAMPS 2.5K OHM COIL RESISTANCE.	1	\$35.00
3120017	RELAY 15V THERMOSEN INC. 14770 NEF 620600 CHANNEL PCB	18	\$70.00
77B3040	RELAY 2PDT TYPE R10-E1-X2-S800 800 OHM COIL USED HP 3495	2	\$20.16
205-003-24-ME	RELAY 3P2T 24VDC NEFF CAL	9	\$21.30
3120005	RELAY 3PST 12V NEFF 620300 CAL	12	\$42.00
148-0034-00	RELAY ARMATURE DPDT 15VDC 600 OHM	1	\$95.00
148-0054-00	RELAY ARMATURE SPDT AND SPST 15VDC	2	\$105.00
DSD2450	RELAY CRYDOM SOLID STATE RELAY	1	\$33.50
029-710500	RELAY DPDT 5V TYPE DS2E-S-DC5V.	2	\$3.97
1802-4-1	RELAY DRY REED 24V MANUFACTURED BY PRECISION FILTERS	5	\$23.75
1802-7-1	RELAY DRY REED 24V MANUFACTURED BY PRECISION FILTERS	3	\$24.00
RLY6190	RELAY ECG REPLACEMENT FOR OMRON G5L-114P-PS	1	\$3.95
RL-70	RELAY H.V.	1	\$14.60
0490-1109	RELAY REED	3	\$11.50
16809521-001	RELAY REED DIP	1	\$55.00
94371301	RELAY SOLID STATE 15A	1	\$35.00
104923-001	RELAY SOLID STATE 25V	1	\$50.00
RL-34	RELAY STATIC SWITCH BEST 3KVA UPS	1	\$100.00
LDI-1M-05 SN	RELAY(RL1) USED ON THE A5 & A6 AMP BOARDS	2	\$20.00
02620-00012	REMOVER PRINthead	1	\$6.00
9029	REPLACEMENT STRAP ONLY FITS STATIC STRAP #09070	3	\$10.50
180K-FC-2W	RESISITOR 180K OHM 2W FIXED COMPOSITION	14	\$1.00
RN65C75R0F	RESISITOR PRECISION 75.0 OHM 1/4W 1% MIL-R-10509 125C	5	\$1.10
180K-FC-1/2W	RESISTIR 180K OHM 1/2W FIXED COMPOSITION	14	\$1.00
311-2003-00	RESISTOR	1	\$1.00
296-1590	RESISTOR .5 OHM 20W	2	\$3.89
12801746	RESISTOR 1.502 KOHM 0.05% FILM	1	\$5.00
13-1567	RESISTOR 1.5M OHM .25W FLAMEPROOF	4	\$0.60
5-59001	RESISTOR 10 MEG 2 WATT 1%	1	\$9.00
83F1210	RESISTOR 1000 OHM 1/8W .1% 50 PPM/DEGC	98	\$0.32
VHA412	RESISTOR 1000 OHMS 25 PPM ACCURACY.	2	\$24.58

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
817261120	RESISTOR 2.251K 0.1% 1/8W METAL FILM	10	\$0.75
323-0227-00	RESISTOR 2.26K OHMS 1% 0.50W	3	\$1.25
1250024	RESISTOR 2.7 OHM W/W 2 WATT 10%	1	\$5.00
21F191	RESISTOR 20WATT 75K OHM CLAROSTAT TYPE VPR20H.	7	\$3.26
28PR010-3.3	RESISTOR 3.3 OHM 10W CERMET WIREWOUND AXIAL	2	\$0.80
895-4455	RESISTOR 3.3K OHM 3W WIREWOUND	2	\$1.00
12802046	RESISTOR 301K .05% TOL .25WATT	1	\$5.00
HR255N	RESISTOR 350 OHM .25W .01%	11	\$14.00
817261117	RESISTOR 4.501K 0.1% 1/8W MET. FILM.	5	\$0.75
12800596	RESISTOR 5 KOHM .05% NEFF	3	\$5.00
817261116	RESISTOR 5.627K 0.1% 1/8W METAL FILM	4	\$0.75
3262P-1-502	RESISTOR 5K 10TURN HORIZONTAL MOUNT	5	\$8.67
91K-1W-2%	RESISTOR 91K 1WATT 2%	3	\$1.05
278-402	RESISTOR METAL FILM 402 OHM 1% 1/8W	10	\$0.12
895-3809	RESISTOR NETWORK 100 OHM 10 PIN BUSSED MFR TYPE MSP10A-01	4	\$0.65
4116R-001-681	RESISTOR NETWORK 16 DIP 680 OHM	4	\$0.80
754-2707	RESISTOR POT MODEL 3299 MULTI-TURN CERMET 1K OHM	3	\$2.30
754-2711	RESISTOR POT MODEL 3299 MULTI-TURN CERMET 20K OHM	2	\$2.30
311-1259-00	RESISTOR VARIABLE 100 OHM.	2	\$7.00
1-238-016-11	RESISTOR VARIABLE 10K OHM CONVERGENCE GDM1950 GDM1952	5	\$2.81
311-1007-00	RESISTOR VARIABLE 20 OHMS NONWIRE .5W 20OHM	2	\$5.00
311-0643-00	RESISTOR VARIABLE 50 OHMS. REF. DES. R312.	3	\$2.70
311-1411-00	RESISTOR VARIABLE NONWIRE 1K OHM X 10K OHM 20% 0.50W	1	\$40.00
Q-504-3684S-1-103	RESISTOR VARIABLE 10K OHM 2.5W 3% DIGITAL READOUT	1	\$135.00
880-4001	RESISTOR WIREWOUND 1 OHM 3 WATTS PAGE 749.	9	\$1.80
388	RESISTOR .1M OHM 1/4 WATT FIXED COMPOSITION	11	\$0.04
308-0463-00	RESISTOR .3 OHM 3W WW 1%	2	\$1.00
20003-001	RESISTOR .5 OHM 1/4W FIXED COMPOSITION	6	\$1.00
0.1-W-25W	RESISTOR 0.1 OHM 25W WIREWOUND	5	\$3.00
0.25-W-25W	RESISTOR 0.25 OHM 25W WIREWOUND	1	\$3.00
0.5-FP-2W	RESISTOR 0.5 OHM 2W FLAMEPROOF METAL OXIDE 5%	5	\$0.17
0.68-FP-2W	RESISTOR 0.68 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
0.82-FP-2W	RESISTOR 0.82 OHM 2W FLAMEPROOF METAL OXIDE 5%	8	\$0.17
840-2020	RESISTOR 1 OHM 1/2W FIXED COMPOSITION	193	\$0.03
1.0-FP-1/2W	RESISTOR 1.0 OHM 1/2W FLAMEPROOF	3	\$0.60
1-OHM	RESISTOR 1.0 OHM 1/4W FIXED COMPOSITION 5%	3	\$0.60
1.0-FP-2W	RESISTOR 1.0 OHM 2W FLAMPROOF METAL OXIDE 5%	2	\$0.60
13F146	RESISTOR 1.0 OHM 95J SERIES 5 WATT CATALOG #113 PG 248	2	\$2.41
1.0K-W-3W	RESISTOR 1.0K OHM 3W WIRE WOUND	1	\$1.00
1.0M-MF-1/4W	RESISTOR 1.0M OHM 1/4W METAL FILM	4	\$0.60
1.0M-FC-2W	RESISTOR 1.0M OHM 2W FLAMEPROOF	2	\$0.60
1.1K-FC-1/2W	RESISTOR 1.1K OHM 1/2W FIXED COMPOSITION	8	\$1.00
1.1K-FP-1/2W	RESISTOR 1.1K OHM 1/2W FLAMEPROOF	8	\$1.00
1.1K-FP-1/4W	RESISTOR 1.1K OHM 1/4W FLAMEPROOF	8	\$1.00
1.1K-FC-1/8W	RESISTOR 1.1K OHM 1/8W FIXED COMPOSITION	10	\$0.25
1.1K-FC-1W	RESISTOR 1.1K OHM 1W FIXED COMPOSITION	6	\$1.00
1.1K-FC-2W	RESISTOR 1.1K OHM 2W FIXED COMPOSITION	5	\$1.00
1.1K-FP-2W	RESISTOR 1.1K OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.19
1.1M-FC-1/8W	RESISTOR 1.1M 1/8W FIXED COMPOSITION	2	\$0.50
1.1M-FC-1/2W	RESISTOR 1.1M OHM 1/2W FIXED COMPOSITION	9	\$1.00
1.1M-FC-1/4W	RESISTOR 1.1M OHM 1/4W FIXED COMPOSITION	23	\$1.00
1.1M-FC-1W	RESISTOR 1.1M OHM 1W FIXED COMPOSITION	5	\$1.00
1.1M-FC-2W	RESISTOR 1.1M OHM 2W FIXED COMPOSITION	11	\$1.00
1.2OHM 1/4WATT	RESISTOR 1.2 OHM 1/4W WIREWOUND	3	\$0.07
1.2 OHM	RESISTOR 1.2 OHM 1W FLAMEPROOF	2	\$0.25
1255	RESISTOR 1.2K 1/4W FIXED COMPOSITION	2	\$0.14
592	RESISTOR 1.2K OHM 1/2W FIXED COMPOSITION	1	\$0.08
1.2K-FP-1/8W	RESISTOR 1.2K OHM 1/8W FLAMEPROOF 2%	8	\$0.18
1.2K-W-3W	RESISTOR 1.2K OHM 3W WIRE WOUND	1	\$1.00
1.2M-FC-1/2W	RESISTOR 1.2M OHM 1/2W FIXED COMPOSITION	20	\$1.00
1.2M-FC-1/4W	RESISTOR 1.2M OHM 1/4W FIXED COMPOSITION	19	\$1.00
1.2M-FC-1/8W	RESISTOR 1.2M OHM 1/8W FIXED COMPOSITION	8	\$0.50
1.2M-FC-1W	RESISTOR 1.2M OHM 1W FIXED COMPOSITION	14	\$1.00
1.2M-FC-2W	RESISTOR 1.2M OHM 2W FIXED COMPOSITION	7	\$1.00
1.3K-FC-1/2W	RESISTOR 1.3K OHM 1/2W FIXED COMPOSITION	2	\$1.00
1.3K-FP-1/2W	RESISTOR 1.3K OHM 1/2W FLAMEPROOF	7	\$1.00
1.3K-FC-1/4W	RESISTOR 1.3K OHM 1/4W FIXED COMPOSITION	16	\$1.00
1.3K-FC-1/8W	RESISTOR 1.3K OHM 1/8W FIXED COMPOSITION	10	\$0.32
1.3K-FC-1W	RESISTOR 1.3K OHM 1W FIXED COMPOSITION	7	\$1.00
1.3K-FP-1W	RESISTOR 1.3K OHM 1W FLAMEPROOF	8	\$0.30
1.3M-FC-1/2W	RESISTOR 1.3M OHM 1/2W FIXED COMPOSITION	8	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1.3M-FC-1/4W	RESISTOR 1.3M OHM 1/4W FIXED COMPOSITION	17	\$1.00
1.3M-FC-1W	RESISTOR 1.3M OHM 1W FIXED COMPOSITION	12	\$1.00
1.3M-FC-2W	RESISTOR 1.3M OHM 2W FIXED COMPOSITION	10	\$1.00
1.5M .5W	RESISTOR 1.5 MEG OHM 1/2 WATT FLAMEPROOF	5	\$0.60
1.5 OHM RESISTOR	RESISTOR 1.5 OHM 1/4 WATT 5% FLAMEPROOF	2	\$0.45
1.5-FP-2W	RESISTOR 1.5 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
13F3500	RESISTOR 1.5 OHM 3W 5% PTX P600 HAMMER DRIVER	3	\$1.65
4738	RESISTOR 1.5K OHM 1/2W FIXED COMPOSITION	12	\$0.13
1.5K-FP-1/2W	RESISTOR 1.5K OHM 1/2W FLAMEPROOF	4	\$0.20
1356	RESISTOR 1.5K OHM 1/4W FIXED COMPOSITION	2	\$0.12
1.5K-FC-1/8W	RESISTOR 1.5K OHM 1/8W FIXED COMPOSITION	8	\$0.33
1.5K-FC-1W	RESISTOR 1.5K OHM 1W FIXED COMPOSITION	9	\$1.00
1.5K-FP-1W	RESISTOR 1.5K OHM 1W FLAMEPROOF	3	\$1.00
1.5K-FC-2W	RESISTOR 1.5K OHM 2W FIXED COMPOSITION	1	\$0.50
1.5K-FP-2W	RESISTOR 1.5K OHM 2W FLAMEPROOF	13	\$0.17
1.5K-W-3W	RESISTOR 1.5K OHM 3W WIRE WOUND	6	\$1.00
1.5M-FC-1/8W	RESISTOR 1.5M 1/8W FIXED COMPOSITION	5	\$0.50
1.5M-FC-1/2W	RESISTOR 1.5M OHM 1/2W FIXED COMPOSITION	6	\$1.00
1.5M-FC-1/4W	RESISTOR 1.5M OHM 1/4W FIXED COMPOSITION	8	\$1.00
1.5M-FC-1W	RESISTOR 1.5M OHM 1W FIXED COMPOSITION	12	\$1.00
1.5M-FC-2W	RESISTOR 1.5M OHM 2W FIXED COMPOSITION	11	\$1.00
1.6K-FC-1/2W	RESISTOR 1.6K OHM 1/2W FIXED COMPOSITION	7	\$1.00
1.6K-FC-1/4W	RESISTOR 1.6K OHM 1/4W FIXED COMPOSITION	3	\$1.00
1.6K-FC-1W	RESISTOR 1.6K OHM 1W FIXED COMPOSITION	7	\$1.00
1.6K-FC-2W	RESISTOR 1.6K OHM 2W FIXED COMPOSITION	7	\$1.00
1.6M-FC-1/8W	RESISTOR 1.6M 1/8W FIXED COMPOSITION	9	\$0.52
1.6M-FC-1/2W	RESISTOR 1.6M OHM 1/2W FIXED COMPOSITION	10	\$1.00
1.6M-FC-1/4W	RESISTOR 1.6M OHM 1/4W FIXED COMPOSITION	9	\$1.00
1.6M-FC-1W	RESISTOR 1.6M OHM 1W FIXED COMPOSITION	11	\$1.00
1.6M-FC-2W	RESISTOR 1.6M OHM 2W FIXED COMPOSITION	6	\$1.00
13-810	RESISTOR 1.8 OHM 5W CERAMIC	1	\$0.35
593	RESISTOR 1.8K OHM 1/2W FIXED COMPOSITION	13	\$0.11
1.8K-FC-1W	RESISTOR 1.8K OHM 1W FIXED COMPOSITION	11	\$1.00
1.8K-FC-2W	RESISTOR 1.8K OHM 2W FIXED COMPOSITION	7	\$1.00
1.8M-FC-1/2W	RESISTOR 1.8M 1/2W FIXED COMPOSITION	21	\$1.00
1.8M-FC-1/4W	RESISTOR 1.8M 1/4W FIXED COMPOSITION	14	\$1.00
1.8M-FC-1W	RESISTOR 1.8M 1W FIXED COMPOSITION	15	\$1.00
1.8M-FC-2W	RESISTOR 1.8M 2W FIXED COMPOSITION	9	\$1.00
1.8M-FC-1/8W	RESISTOR 1.8M OHM 1/8W FIXED COMPOSITION	7	\$0.34
1.9K-FC-1/8W	RESISTOR 1.9K OHM 1/8W FIXED COMPOSITION	6	\$0.40
10-FC-1/2W	RESISTOR 10 OHM 1/2W FIXED COMPOSITION	2	\$0.08
10-FP-1/2W	RESISTOR 10 OHM 1/2W FLAMEPROOF	5	\$0.20
10-1/4W	RESISTOR 10 OHM 1/4W FLAMEPROOF	12	\$0.24
10.0-FC-1/8W	RESISTOR 10 OHM 1/8W FIXED COMPOSITION	46	\$0.15
10-FP-1W	RESISTOR 10 OHM 1W FLAMEPROOF	14	\$0.40
10-FP-2W	RESISTOR 10 OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.60
292-3060	RESISTOR 10 OHM 7W CERMET VERTICAL MOUNT	4	\$0.75
10.0M-FC-1/2W	RESISTOR 10.0M 1/2W FIXED COMPOSITION	9	\$1.00
10.0M-FC-1/4W	RESISTOR 10.0M 1/4W FIXED COMPOSITION	4	\$1.00
10.0M-FC-1W	RESISTOR 10.0M 1W FIXED COMPOSITION	5	\$1.00
10.0M-FC-2W	RESISTOR 10.0M 2W FIXED COMPOSITION	21	\$1.00
832-3202	RESISTOR 100 OHM 1% 1/2W	93	\$0.06
100.0-FC-1/2W	RESISTOR 100 OHM 1/2W FIXED COMPOSITION	4	\$1.00
1183	RESISTOR 100 OHM 1/4W FIXED COMPOSITION	3	\$0.15
100.0-MF-1/4W	RESISTOR 100 OHM 1/4W FLAMEPROOF	3	\$0.30
100-VR-1W	RESISTOR 100 OHM 1W VARIABLE	6	\$0.40
100-FP-2W	RESISTOR 100 OHM 2W FLAMEPROOF METAL OXIDE 5%	8	\$0.60
100.0-FP-1/2W	RESISTOR 100.0 OHM 1/2W FLAMEPROOF	10	\$0.20
100.0-FP-1W	RESISTOR 100.0 OHM 1W FLAMEPROOF	8	\$0.30
100.0-W-3W	RESISTOR 100.0 OHM 3W WIRE WOUND	5	\$3.75
9861	RESISTOR 1000 OHM 1W FIXED COMPOSITION	2	\$0.23
100K	RESISTOR 100K 2W 5% FIXED COMPOSITION	18	\$2.00
100K-FC-1/4W	RESISTOR 100K OHM 1/4W FLAMEPROOF	4	\$0.30
100K-1/8W	RESISTOR 100K OHM 1/8W FLAMEPROOF	3	\$1.05
1W410	RESISTOR 100K OHM 1W 2% FLAMEPROOF	7	\$0.62
100K-FC-1W	RESISTOR 100K OHM 1W FIXED COMPOSITION	12	\$1.00
100K-VR-1W	RESISTOR 100K OHM 1W VARIABLE	1	\$0.65
100K-FC-2W	RESISTOR 100K OHM 2W FIXED COMPOSITION	3	\$0.60
100K-VR-3/4W	RESISTOR 100K OHM 3/4W VARIABLE	2	\$1.37
PQ11-128	RESISTOR 100K OHM VARIABLE NONWIRE WOUND 3" FIXED SHAFT	9	\$5.43
832-3522	RESISTOR 10K 1% 1/2W	92	\$0.06

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
10K-FP-1/2W	RESISTOR 10K OHM 1/2W FLAMEPROOF	6	\$0.20
10K-VR-1/2W	RESISTOR 10K OHM 1/2W VARIABLE	4	\$1.20
10K-FP-1/4W	RESISTOR 10K OHM 1/4W FLAMEPROOF	1	\$0.30
10K-FP-1W	RESISTOR 10K OHM 1W FLAMEPROOF	8	\$0.30
10K-VR-1W	RESISTOR 10K OHM 1W VARIABLE	15	\$0.75
10K-FP-2W	RESISTOR 10K OHM 2W FLAMEPROOF METAL OXIDE 5%	6	\$0.19
10K-VR-3/4W	RESISTOR 10K OHM 3/4W VARIABLE	1	\$0.50
PQ11-116	RESISTOR 10K OHM VARIABLE NONWIRE WOUND 3" FIXED SHAFT	2	\$4.50
PQ11-143	RESISTOR 10MEG OHM VARIABLE NONWIRE WOUND 3" FIXED SHAFT	1	\$2.69
11-FC-1/2W	RESISTOR 11 OHM 1/2W FIXED COMPOSITION	5	\$0.10
11-FC-1/4W	RESISTOR 11 OHM 1/4W FIXED COMPOSITION	9	\$0.10
11.0-FC-1/8W	RESISTOR 11 OHM 1/8W FIXED COMPOSITION	9	\$0.90
11-FC-1W	RESISTOR 11 OHM 1W FIXED COMPOSITION	14	\$0.15
11-FC-2W	RESISTOR 11 OHM 2W FIXED COMPOSITION	8	\$0.17
11-TH-1/2W	RESISTOR 11 OHM.1/2W FLAMEPROOF	11	\$0.20
11.0M-FC-1/2W	RESISTOR 11.0M 1/2W FIXED COMPOSITION	5	\$1.00
11.0M-FC-1/4W	RESISTOR 11.0M 1/4W FIXED COMPOSITION	19	\$1.00
11.0M-FC-1W	RESISTOR 11.0M 1W FIXED COMPOSITION	16	\$1.00
11.0M-FC-2W	RESISTOR 11.0M 2W FIXED COMPOSITION	11	\$1.00
650-300007-104	RESISTOR 11.8 OHM 5W 1%	4	\$5.00
110.0-FC-1/2W	RESISTOR 110 OHM 1/2W FIXED COMPOSITION	9	\$1.00
110.0-FC-1/4W	RESISTOR 110 OHM 1/4W FIXED COMPOSITION	15	\$1.00
110-FC-1/8W	RESISTOR 110 OHM 1/8W FIXED COMPOSITION	9	\$0.25
110.0-FC-1W	RESISTOR 110 OHM 1W FIXED COMPOSITION	15	\$1.00
110.0-FC-2W	RESISTOR 110 OHM 2W FIXED COMPOSITION	9	\$1.00
110K-FC-1/2W	RESISTOR 110K OHM 1/2W FIXED COMPOSITION	6	\$1.00
6414	RESISTOR 110K OHM 1/4W FIXED COMPOSITION	16	\$0.11
110K-FC-1/8W	RESISTOR 110K OHM 1/8W FIXED COMPOSITION	8	\$0.30
110K-FC-1W	RESISTOR 110K OHM 1W FIXED COMPOSITION	32	\$1.00
110K-FC-2W	RESISTOR 110K OHM 2W FIXED COMPOSITION	1	\$1.00
110K-FP-2W	RESISTOR 110K OHM 2W FLAMEPROOF	6	\$1.00
11K-FC-1/2W	RESISTOR 11K OHM 1/2W FIXED COMPOSITION	7	\$1.00
11K-FC-1/4W	RESISTOR 11K OHM 1/4W FIXED COMPOSITION	13	\$1.00
11.0K-FC-1/8W	RESISTOR 11K OHM 1/8W FIXED COMPOSITION	9	\$0.60
11K-FC-1W	RESISTOR 11K OHM 1W FIXED COMPOSITION	10	\$1.00
11K-FC-2W	RESISTOR 11K OHM 2W FIXED COMPOSITION	3	\$1.00
80J33R	RESISTOR 11W 33 OHM WIRE WOUND	5	\$1.49
12-FC-1/2W	RESISTOR 12 OHM 1/2W FIXED COMPOSITION	10	\$0.13
12-FC-1/4W	RESISTOR 12 OHM 1/4W FIXED COMPOSITION	22	\$0.10
12.0-FC-1/8W	RESISTOR 12 OHM 1/8W FIXED COMPOSITION	9	\$1.00
12-FC-1W	RESISTOR 12 OHM 1W FIXED COMPOSITION	5	\$0.17
12-FC-2W	RESISTOR 12 OHM 2W FIXED COMPOSITION	8	\$0.17
12.0M-FC-1/2W	RESISTOR 12.0M 1/2W FIXED COMPOSITION	5	\$1.00
12.0M-FC-1/4W	RESISTOR 12.0M 1/4W FIXED COMPOSITION	26	\$1.00
12.0M-FC-1W	RESISTOR 12.0M 1W FIXED COMPOSITION	6	\$1.00
12.0M-FC-2W	RESISTOR 12.0M 2W FIXED COMPOSITION	4	\$1.00
120.0-FC-1/2W	RESISTOR 120 OHM 1/2W FIXED COMPOSITION	8	\$1.00
8812	RESISTOR 120 OHM 1/4W FIXED COMPOSITION	4	\$0.11
120-FC-1/8W	RESISTOR 120 OHM 1/8W FIXED COMPOSITION	8	\$0.25
120.0-FC-1W	RESISTOR 120 OHM 1W FIXED COMPOSITION	4	\$0.50
120.0-FP-1/2W	RESISTOR 120.0 OHM 1/2W FLAMEPROOF	9	\$1.00
120.0-FP-1/4W	RESISTOR 120.0 OHM 1/4W FLAMEPROOF	5	\$0.30
120.0-FC-2W	RESISTOR 120.0 OHM 2W FIXED COMPOSITION	2	\$0.53
120.0-W-3W	RESISTOR 120.0 OHM 3W WIRE WOUND	8	\$1.00
120K-2W	RESISTOR 120K OHM 2 WATT METAL FILM	5	\$0.60
120K-FC-1/2W	RESISTOR 120K OHM 1/2W FIXED COMPOSITION	5	\$1.00
4528	RESISTOR 120K OHM 1/4W FIXED COMPOSITION	0	\$0.09
120K-FC-1/8W	RESISTOR 120K OHM 1/8W FIXED COMPOSITION	9	\$0.30
120K-FC-1W	RESISTOR 120K OHM 1W FIXED COMPOSITION	6	\$1.00
120K-FC-2W	RESISTOR 120K OHM 2W FIXED COMPOSITION	3	\$1.00
825	RESISTOR 12100 OHM 1/4W 0.1% MIL-R-55185/5	6	\$0.82
832-3574	RESISTOR 12K 1% 1/2W	99	\$0.06
12K-FC-1/2W	RESISTOR 12K OHM 1/2W FLAMEPROOF	5	\$0.20
1278	RESISTOR 12K OHM 1/4W FIXED COMPOSITION	4	\$0.11
12K-FP-1/4W	RESISTOR 12K OHM 1/4W FLAMEPROOF	10	\$1.00
12.0K-FC-1/8W	RESISTOR 12K OHM 1/8W FIXED COMPOSITION	13	\$0.55
12K-FC-1W	RESISTOR 12K OHM 1W FIXED COMPOSITION	10	\$1.00
13-FC-1/2W	RESISTOR 13 OHM 1/2W FIXED COMPOSITION	17	\$0.10
13-FC-1/4W	RESISTOR 13 OHM 1/4W FIXED COMPOSITION	8	\$0.21
13.0-FC-1/8W	RESISTOR 13 OHM 1/8W FIXED COMPOSITION	10	\$1.00
13-FC-1W	RESISTOR 13 OHM 1W FIXED COMPOSITION	13	\$0.17

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
13-FC-2W	RESISTOR 13 OHM 2W FIXED COMPOSITION	7	\$0.18
13.0K-W-5W	RESISTOR 13.0K OHM 5W WIRE WOUND	34	\$1.00
13.0M-FC-1/2W	RESISTOR 13.0M 1/2W FIXED COMPOSITION	10	\$1.00
13.0M-FC-1/4W	RESISTOR 13.0M 1/4W FIXED COMPOSITION	21	\$1.00
13.0M-FC-1W	RESISTOR 13.0M 1W FIXED COMPOSITION	15	\$1.00
13.0M-FC-2W	RESISTOR 13.0M 2W FIXED COMPOSITION	11	\$1.00
130.0-FC-1/2W	RESISTOR 130 OHM 1/2W FIXED	3	\$1.00
130.0-FP-1/2W	RESISTOR 130 OHM 1/2W FLAMEPROOF	5	\$0.18
130.0-FP-1/4W	RESISTOR 130 OHM 1/4W FLAMEPROOF	3	\$0.30
130-FC-1/8W	RESISTOR 130 OHM 1/8W FIXED COMPOSITION	21	\$0.25
130.0-FC-1W	RESISTOR 130 OHM 1W FIXED	18	\$1.00
130.0-FC-2W	RESISTOR 130 OHM 2W FIXED	3	\$1.00
800-1207	RESISTOR 130 OHM 30W	2	\$10.00
130.0-C-1/2W	RESISTOR 130 OHM CERAMIC	4	\$1.00
130K-FC-1/2W	RESISTOR 130K OHM 1/2W FIXED COMPOSITION	8	\$1.00
130K-FP-1/2W	RESISTOR 130K OHM 1/2W FLAMEPROOF	11	\$1.00
1681	RESISTOR 130K OHM 1/4W FIXED COMPOSITION	8	\$0.12
130K-FC-1W	RESISTOR 130K OHM 1W FIXED COMPOSITION	7	\$1.00
130K-FP-1W	RESISTOR 130K OHM 1W FLAMEPROOF	12	\$1.00
130K-FC-2W	RESISTOR 130K OHM 2W FIXED COMPOSITION	2	\$1.00
130K-FP-2W	RESISTOR 130K OHM 2W FLAMEPROOF	2	\$1.00
13K-FC-1/2W	RESISTOR 13K OHM 1/2W FIXED COMPOSITION	12	\$1.00
13K-FP-1/4W	RESISTOR 13K OHM 1/4W FLAMEPROOF	107	\$0.05
13.0K-FC-1/8W	RESISTOR 13K OHM 1/8W FIXED COMPOSITION	10	\$0.50
13K-FC-1W	RESISTOR 13K OHM 1W FIXED COMPOSITION	12	\$1.00
13K-FC-2W	RESISTOR 13K OHM 2W FIXED COMPOSITION	7	\$1.00
15-FC-1/2W	RESISTOR 15 OHM 1/2W FIXED COMPOSITION	10	\$0.10
15-FC-1/4W	RESISTOR 15 OHM 1/4W (3) FIXED COMPOSITION (8) FLAMEPROOF	11	\$0.30
15.0-FC-1/8W	RESISTOR 15 OHM 1/8W FIXED COMPOSITION	10	\$1.00
15-FC-1W	RESISTOR 15 OHM 1W FIXED COMPOSITION	10	\$0.17
15-FC-2W	RESISTOR 15 OHM 2W FIXED COMPOSITION	4	\$0.18
15-FP-2W	RESISTOR 15 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
15.0M-FC-1/2W	RESISTOR 15.0M 1/2W FIXED COMPOSITION	11	\$1.00
15.0M-FC-1/4W	RESISTOR 15.0M 1/4W FIXED COMPOSITION	16	\$1.00
15.0M-FC-1W	RESISTOR 15.0M 1W FIXED COMPOSITION	14	\$1.00
15.0M-FC-2W	RESISTOR 15.0M 2W FIXED COMPOSITION	3	\$1.00
150.0-FC-1/2W	RESISTOR 150 OHM 1/2W FIXED	6	\$1.00
150.0-FP-1/2W	RESISTOR 150 OHM 1/2W FLAMEPROOF	7	\$1.00
150-OHM	RESISTOR 150 OHM 1/2W METAL FILM 1%	42	\$0.06
8811	RESISTOR 150 OHM 1/4W FIXED COMPOSITION	1	\$0.11
150-FC-1/8W	RESISTOR 150 OHM 1/8W FIXED COMPOSITION	9	\$0.25
150.0-FC-1W	RESISTOR 150 OHM 1W FIXED	1	\$1.00
150.0-FP-1W	RESISTOR 150 OHM 1W FLAMEPROOF	6	\$1.00
150.0-FC-2W	RESISTOR 150 OHM 2W FIXED	6	\$1.00
832-3740	RESISTOR 150K 1% 1/2W	91	\$0.06
9348	RESISTOR 150K 1/2W FIXED COMPOSITION	7	\$1.00
5339	RESISTOR 150K OHM 1/4W FIXED COMPOSITION	3	\$0.12
150K-1/4W	RESISTOR 150K OHM 1/4W FLAMEPROOF	2	\$0.30
150K-FC-1/8W	RESISTOR 150K OHM 1/8W FIXED COMPOSITION	10	\$0.30
150K-FC-1W	RESISTOR 150K OHM 1W FIXED COMPOSITION	24	\$1.00
150K-FC-2W	RESISTOR 150K OHM 2W FIXED COMPOSITION	7	\$1.00
15K-FC-1/2W	RESISTOR 15K OHM 1/2W FLAMEPROOF	4	\$0.25
15K-FC-1/4W	RESISTOR 15K OHM 1/4W FIXED COMPOSITION	7	\$0.38
8303	RESISTOR 15K OHM 1/8W FIXED COMPOSITION	9	\$0.26
15K-FC-1W	RESISTOR 15K OHM 1W FIXED COMPOSITION	4	\$1.00
10F390	RESISTOR 15K OHM 2W FIXED COMPOSITION	18	\$1.27
15K-FP-2W	RESISTOR 15K OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.60
16-FC-1/2W	RESISTOR 16 OHM 1/2W FIXED COMPOSITION	18	\$0.14
16-FC-1/4W	RESISTOR 16 OHM 1/4W FIXED COMPOSITION	25	\$0.10
16.0-FC-1/8W	RESISTOR 16 OHM 1/8W FIXED COMPOSITION	10	\$1.00
16-FC-1W	RESISTOR 16 OHM 1W FIXED COMPOSITION	8	\$0.17
16-TH-1W	RESISTOR 16 OHM 1W FLAMEPROOF	4	\$0.30
16-FC-2W	RESISTOR 16 OHM 2W FIXED COMPOSITION	7	\$0.60
16.0M-FC-1/2W	RESISTOR 16.0M 1/2W FIXED COMPOSITION	14	\$1.00
16.0M-FC-1/4W	RESISTOR 16.0M 1/4W FIXED COMPOSITION	23	\$1.00
16.0M-FC-1W	RESISTOR 16.0M 1W FIXED COMPOSITION	10	\$1.00
16.0M-FC-2W	RESISTOR 16.0M 2W FIXED COMPOSITION	8	\$1.00
160.0-FC-1/2W	RESISTOR 160 OHM 1/2W FIXED	8	\$1.00
160-FC-1/8W	RESISTOR 160 OHM 1/8W FIXED COMPOSITION	9	\$0.25
160.0-FC-1W	RESISTOR 160 OHM 1W FIXED	9	\$1.00
160.0-FC-2W	RESISTOR 160 OHM 2W FIXED	5	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
160K-FC-1/2W	RESISTOR 160K OHM 1/2W FIXED COMPOSITION	6	\$1.00
6690	RESISTOR 160K OHM 1/4W FIXED COMPOSITION	11	\$0.06
160K-FC-1/8W	RESISTOR 160K OHM 1/8W FIXED COMPOSITION	12	\$0.30
160K0FC-1W	RESISTOR 160K OHM 1W FIXED COMPOSITION	6	\$1.00
160K-FC-2W	RESISTOR 160K OHM 2W FIXED COMPOSITION	16	\$1.00
16K-FC-1/2W	RESISTOR 16K OHM 1/2W FIXED COMPOSITION	16	\$1.00
16K-FC-1/4W	RESISTOR 16K OHM 1/4W FIXED COMPOSITION	8	\$1.00
16.0K-FC-1/8W	RESISTOR 16K OHM 1/8W FIXED COMPOSITION	5	\$0.40
16K-FC-1W	RESISTOR 16K OHM 1W FIXED COMPOSITON	8	\$1.00
16K-FC-2W	RESISTOR 16K OHM 2W FIXED COMPOSITION	13	\$1.00
18-FC-1/2W	RESISTOR 18 OHM 1/2W FIXED COMPOSITION	4	\$0.14
18-FC-1/4W	RESISTOR 18 OHM 1/4W (2 IN BIN) FIXED COMPOSITION AFTER 2 FC ARE ISSUED PART WILL BE CHANGED TO F	8	\$0.30
18-FC-1W	RESISTOR 18 OHM 1W FIXED COMPOSITION	9	\$0.17
18-FC-2W	RESISTOR 18 OHM 2W FIXED COMPOSITION	6	\$0.27
18.0M-FC-1/2W	RESISTOR 18.0M 1/2W FIXED COMPOSITION	6	\$1.00
18.0M-FC-1/4W	RESISTOR 18.0M 1/4W FIXED COMPOSITION	20	\$1.00
18.0M-FC-1W	RESISTOR 18.0M 1W FIXED COMPOSITION	6	\$1.00
18.0M-FC-2W	RESISTOR 18.0M 2W FIXED COMPOSITION	13	\$1.00
308-0344-00	RESISTOR 18.2 OHM 3W %1 TEK 4014	2	\$3.00
180.0-FC-1/2W	RESISTOR 180 OHM 1/2W FIXED	7	\$1.00
742	RESISTOR 180 OHM 1/4W FIXED COMPOSITION	2	\$0.15
180-FC-1/8W	RESISTOR 180 OHM 1/8W FIXED COMPOSITION	4	\$0.10
180.0-FC-1W	RESISTOR 180 OHM 1W FIXED	2	\$1.00
180.0-FP-1W	RESISTOR 180 OHM 1W FLAMEPROOF	4	\$0.30
995-5B	RESISTOR 180 OHM 5W WIRE WOUND	1	\$0.20
180.0-W-3W	RESISTOR 180.0 OHM 3W WIRE WOUND	3	\$1.65
5344	RESISTOR 180K OHM 1/4W FIXED COMPOSITION	10	\$1.00
180K-FC-1W	RESISTOR 180K OHM 1W FIXED COMPOSITION	11	\$1.00
18K-FC-1/2W	RESISTOR 18K OHM 1/2W FIXED COMPOSITION	5	\$1.00
3560	RESISTOR 18K OHM 1/4W FIXED COMPOSITON	16	\$0.15
18K-FC-1W	RESISTOR 18K OHM 1W FIXED COMPOSITION	5	\$1.00
18K-FC-2W	RESISTOR 18K OHM 2W FIXED COMPOSITION	5	\$0.60
19.0-FC-1/8W	RESISTOR 19 OHM 1/8W FIXED COMPOSITION	10	\$0.50
190K-FC-1/8W	RESISTOR 190K 1/8W FIXED COMPOSITION	26	\$0.28
1.0K-FC-1/2W	RESISTOR 1K OHM 1/2W FIXED COMPOSITION	5	\$0.20
7620	RESISTOR 1K OHM 1/4W FIXED COMPOSITION	3	\$0.11
1K-FP-1/8W	RESISTOR 1K OHM 1/8W FLAMEPROOF	8	\$0.25
1K-VR-1W	RESISTOR 1K OHM 1W VARIABLE	25	\$0.50
1K-VR-3/4W	RESISTOR 1K OHM 3/4W VARIABLE	4	\$0.60
1M-FC-1/8W	RESISTOR 1M OHM 1/8W FIXED COMPOSITION	10	\$0.20
2.0-FP-2W	RESISTOR 2.0 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.60
2.0K-FP-2W	RESISTOR 2.0K OHM 2W FLAMEPROOF METAL OXIDE 5%	5	\$0.17
2.0M-FC-1/2W	RESISTOR 2.0M 1/2W FIXED COMPOSITION	4	\$1.00
2.0M-FC-1/4W	RESISTOR 2.0M 1/4W FIXED COMPOSITION	5	\$1.00
2.0M-FC-1W	RESISTOR 2.0M 1W FIXED COMPOSITION	7	\$1.00
2.0M-FC-2W	RESISTOR 2.0M 2W FIXED COMPOSITION	5	\$1.00
2.2-FC-1/2W	RESISTOR 2.2 OHM 1/2W FIXED COMPOSITION 5%	7	\$1.00
7764	RESISTOR 2.2K OHM 1/4W FIXED COMPOSITION	9	\$0.11
2.2K-FC-1/8W	RESISTOR 2.2K OHM 1/8W FIXED COMPOSITION	2	\$0.30
2.2K-FC-1W	RESISTOR 2.2K OHM 1W FIXED COMPOSITION	13	\$1.00
2.2K-FP-1W	RESISTOR 2.2K OHM 1W FLAMEPROOF	7	\$0.26
2.2K-FC-2W	RESISTOR 2.2K OHM 2W FIXED COMPOSITION	10	\$1.00
2.2K-W-3W	RESISTOR 2.2K OHM 3W WIRE WOUND	5	\$1.00
2.2M-FC-1/2W	RESISTOR 2.2M 1/2W FIXED COMPOSITION	6	\$1.00
2.2M-FC-1/4W	RESISTOR 2.2M 1/4W FIXED COMPOSITION	21	\$1.00
2.2M-FC-1W	RESISTOR 2.2M 1W FIXED COMPOSITION	12	\$1.00
2.2M-FC-2W	RESISTOR 2.2M 2W FIXED COMPOSITION	12	\$1.00
2.2M-FC-1/8W	RESISTOR 2.2M OHM 1/8W FIXED COMPOSITION	8	\$0.20
1.3K-FC-2W	RESISTOR 2.3K OHM 2W FIXED COMPOSITION	8	\$1.00
2.4-FC-1/2W	RESISTOR 2.4 OHM 1/2W FIXED COMPOSITION 5%	9	\$1.00
2.4K-FC-1/2W	RESISTOR 2.4K OHM 1/2W FIXED COMPOSITION FLAMEPROOF	4	\$0.20
2.4K-FC-1/4W	RESISTOR 2.4K OHM 1/4W FIXED COMPOSITION	5	\$1.00
2.4K-FC-1/8W	RESISTOR 2.4K OHM 1/8W FIXED COMPOSITION	10	\$0.30
2.4K-FC-1W	RESISTOR 2.4K OHM 1W FIXED COMPOSITION	11	\$1.00
2.4K-FC-2W	RESISTOR 2.4K OHM 2W FIXED COMPOSITION	2	\$0.50
2.4M-FC-1/2W	RESISTOR 2.4M 1/2W FIXED COMPOSITION	7	\$1.00
2.4M-FC-1/4W	RESISTOR 2.4M 1/4W FIXED COMPOSITION	16	\$1.00
2.4M-FC-1W	RESISTOR 2.4M 1W FIXED COMPOSITION	4	\$1.00
2.4M-FC-2W	RESISTOR 2.4M 2W FIXED COMPOSITION	8	\$1.00
2.7-FC-1/2W	RESISTOR 2.7 OHM 1/2W FIXED COMPOSITION	2	\$0.08
2.7OHM 1/2W	RESISTOR 2.7 OHM 1/2W FIXED COMPOSITION	3	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2.7-FP-1/2W	RESISTOR 2.7 OHM 1/2W FLAMEPROOF	6	\$0.45
2.7-MF-1/2W	RESISTOR 2.7 OHM 1/2W METAL FILM	6	\$0.10
2.7-FC-1/4W	RESISTOR 2.7 OHM 1/4W FIXED COMPOSITION	3	\$0.30
2.7-FP-1/4W	RESISTOR 2.7 OHM 1/4W FLAMEPROOF	9	\$0.75
2.7-MF-1/8W	RESISTOR 2.7 OHM 1/8W METAL FILM	21	\$0.08
2.7-FC-1W	RESISTOR 2.7 OHM 1W FIXED COMPOSITION	9	\$0.30
2.7-FP-1W	RESISTOR 2.7 OHM 1W FLAMEPROOF	7	\$0.90
262-2.7	RESISTOR 2.7 OHM 2W FLAMEPROOF	6	\$0.60
2.7K-FC-1/2W	RESISTOR 2.7K OHM 1/2W FIXED COMPOSITION	6	\$1.00
4727	RESISTOR 2.7K OHM 1/4W FIXED COMPOSITION	3	\$0.15
2.7K-FC-1/8W	RESISTOR 2.7K OHM 1/8W FIXED COMPOSITION	10	\$0.30
2.7K-FC-1W	RESISTOR 2.7K OHM 1W FIXED COMPOSITION	13	\$1.00
2.7K-FC-2W	RESISTOR 2.7K OHM 2W FIXED COMPOSITION	3	\$1.00
2.7K-FP-2W	RESISTOR 2.7K OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.60
2.7M-FC-1/2W	RESISTOR 2.7M 1/2W FIXED COMPOSITION	36	\$1.00
2.7M-FC-1/4W	RESISTOR 2.7M 1/4W FIXED COMPOSITION	35	\$1.00
2.7M-FC-1W	RESISTOR 2.7M 1W FIXED COMPOSITION	36	\$1.00
2.7M-FC-2W	RESISTOR 2.7M 2W FIXED COMPOSITION	12	\$1.00
817261119	RESISTOR 2.813K 1/8W .1% METAL FILM S1ROD	5	\$0.53
20-FC-1/2W	RESISTOR 20 OHM 1/2W FIXED COMPOSITION	14	\$0.10
20-TH-1/2W	RESISTOR 20 OHM 1/2W FLAMEPROOF	6	\$0.10
20-FC-1/4W	RESISTOR 20 OHM 1/4W FIXED COMPOSITION	11	\$0.25
20.0-FC-1/8W	RESISTOR 20 OHM 1/8W FIXED COMPOSITION	10	\$0.60
20-FC-1W	RESISTOR 20 OHM 1W FIXED COMPOSITION	9	\$0.17
20-FC-2W	RESISTOR 20 OHM 2W FIXED COMPOSITION	8	\$0.60
20-FP-2W	RESISTOR 20 OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.17
20.0M-FC-1/2W	RESISTOR 20.0M 1/2W FIXED COMPOSITION	9	\$1.00
20.0M-FC-1/4W	RESISTOR 20.0M 1/4W FIXED COMPOSITION	2	\$0.60
20.0M-FC-1W	RESISTOR 20.0M 1W FIXED COMPOSITION	13	\$1.00
20.0M-FC-2W	RESISTOR 20.0M 2W FIXED COMPOSITION	10	\$1.00
200.0-FC-1/2W	RESISTOR 200 OHM 1/2W FIXED	7	\$0.10
4845	RESISTOR 200 OHM 1/4W FIXED	2	\$0.59
200-FC-1/8W	RESISTOR 200 OHM 1/8W FIXED COMPOSITION	7	\$0.20
200.0-FC-1W	RESISTOR 200 OHM 1W FIXED	4	\$0.30
200-VR-1W	RESISTOR 200 OHM 1W VARIABLE	2	\$0.40
200-VR-3/4W	RESISTOR 200 OHM 3/4W VARIABLE	7	\$0.60
200.0-W-3W	RESISTOR 200.0 OHM 3W WIRE WOUND	5	\$1.80
200.0K-W-1.5W	RESISTOR 200.0K OHM 1.5W WIRE WOUND	10	\$1.00
200K-FC-1/2W	RESISTOR 200K OHM 1/2W FIXED COMPOSITION	3	\$1.00
200K-FP-1/2W	RESISTOR 200K OHM 1/2W FLAMEPROOF	15	\$1.00
200K-VR-1/2W	RESISTOR 200K OHM 1/2W VARIABLE	2	\$0.50
200KOHM	RESISTOR 200K OHM 1/4 WATT PRECISION	2	\$0.90
7103	RESISTOR 200K OHM 1/4W FIXED COMPOSITION	2	\$0.10
200K-FP-1/4W	RESISTOR 200K OHM 1/4W FLAMEPROOF	4	\$1.00
200K-FC-1/8W	RESISTOR 200K OHM 1/8W FIXED COMPOSITION	4	\$0.28
200K-FC-1W	RESISTOR 200K OHM 1W FIXED COMPOSITION	10	\$1.00
200K-FP-1W	RESISTOR 200K OHM 1W FLAMEPROOF	8	\$1.00
200K-FP-2W	RESISTOR 200K OHM 2W FLAMEPROOF	9	\$1.00
20K-FC-1/2W	RESISTOR 20K OHM 1/2W FLAMEPROOF	7	\$0.20
20K-VR-1/2W	RESISTOR 20K OHM 1/2W VARIABLE	2	\$2.64
20K-VR-1/4W	RESISTOR 20K OHM 1/4W VARIABLE	14	\$0.60
20K-FC-1/8W	RESISTOR 20K OHM 1/8W FIXED COMPOSITION 6 ARE FLAMEPROOF	12	\$0.60
20K-VR-3/4W	RESISTOR 20K OHM 1/8W VARIABLE 10 TURN VERTICAL MOUNT	1	\$0.30
20K-FC-1W	RESISTOR 20K OHM 1W FIXED COMPOSITION	19	\$1.00
20K-FC-2W	RESISTOR 20K OHM 2W FIXED COMPOSITION	3	\$1.00
20K-FP-2W	RESISTOR 20K OHM 2W FLAMEPROOF METAL OXIDE 5%	6	\$0.17
22.0-FP-1/4W	RESISTOR 22 OHM 1/4W FLAMEPROOF	4	\$0.25
22.0-FC-1/2W	RESISTOR 22 OHM 1/2W FIXED COMPOSITION	1	\$0.35
22.0-FP-1/2W	RESISTOR 22 OHM 1/2W FLAMEPROOF	25	\$1.05
22.0-MF-1/4W	RESISTOR 22 OHM 1/4W METAL FILM	10	\$0.18
22.0-FC-1/8W	RESISTOR 22 OHM 1/8W FIXED COMPOSITION	10	\$0.60
22.0-FC-1W	RESISTOR 22 OHM 1W FIXED COMPOSITION	2	\$0.17
22.0-FP-1W	RESISTOR 22 OHM 1W FLAMEPROOF	10	\$0.20
22.0-FC-2W	RESISTOR 22 OHM 2W FIXED COMPOSITION	4	\$0.22
22.0M-FC-1/2W	RESISTOR 22.0M 1/2W FLAMEPROOF	0	\$0.60
22.0M-FC-1W	RESISTOR 22.0M 1W FIXED COMPOSITION	4	\$1.00
22.0M-FC-2W	RESISTOR 22.0M 2W FIXED COMPOSITION	11	\$1.00
220.0-FC-1/2W	RESISTOR 220 OHM 1/2W FIXED	3	\$1.00
220.0-FP-1/2W	RESISTOR 220 OHM 1/2W FLAMEPROOF	3	\$0.20
3973	RESISTOR 220 OHM 1/4W FIXED COMPOSITION	3	\$0.31
220-FC-1/8W	RESISTOR 220 OHM 1/8W FIXED COMPOSITION	6	\$0.20

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
220.0-FC-1W	RESISTOR 220 OHM 1W FIXED	7	\$1.00
220.0-FP-1W	RESISTOR 220 OHM 1W FLAMEPROOF	7	\$1.00
220.0-FC-2W	RESISTOR 220 OHM 2W FIXED COMPOSITION	2	\$1.00
220.0-W-3W	RESISTOR 220.0 OHM 3W WIRE WOUND	3	\$1.00
5393	RESISTOR 220K OHM 1/2W FIXED COMPOSITION	10	\$0.16
220K-1/2W	RESISTOR 220K OHM 1/2W FLAMEPROOF	2	\$0.20
7765	RESISTOR 220K OHM 1/4W FIXED COMPOSITION	6	\$0.13
220K-FC-1/8W	RESISTOR 220K OHM 1/8W FIXED COMPOSITION	8	\$0.28
220K-FC-1W	RESISTOR 220K OHM 1W FIXED COMPOSITION	7	\$1.00
220K-FC-2W	RESISTOR 220K OHM 2W FIXED COMPOSITION	3	\$1.00
1282	RESISTOR 22K OHM 1/2W FIXED COMPOSITION	20	\$0.05
22K-FC-1/8W	RESISTOR 22K OHM 1/8W FIXED COMPOSITION	6	\$0.62
22K-FC-1W	RESISTOR 22K OHM 1W FIXED COMPOSITION	3	\$1.00
22K-FC-2W	RESISTOR 22K OHM 2W FIXED COMPOSITION	5	\$1.00
1-115897	RESISTOR 238 OHM 1% DALE	6	\$1.12
24.0-FC-1/2W	RESISTOR 24 OHM 1/2W FIXED COMPOSITION	10	\$0.11
24.0-FC-1/4W	RESISTOR 24 OHM 1/4W FIXED COMPOSITION	18	\$0.11
24.0-FC-1/8W	RESISTOR 24 OHM 1/8W FIXED COMPOSITION	7	\$0.50
24.0-FC-1W	RESISTOR 24 OHM 1W FIXED COMPOSITION	10	\$0.12
24.0-FC-2W	RESISTOR 24 OHM 2W FIXED COMPOSITION	7	\$0.60
832-3594	RESISTOR 24.9K 1% 1/2W	98	\$0.06
240.0-FC-1/2W	RESISTOR 240 OHM 1/2W FIXED	7	\$1.00
240.0-FP-1/2W	RESISTOR 240 OHM 1/2W FLAMPROOF	5	\$0.20
240-FC-1/8W	RESISTOR 240 OHM 1/8W FIXED COMPOSITION FLAMEPROOF	7	\$0.20
240.0-FC-2W	RESISTOR 240 OHM 2W FIXED	3	\$1.00
240K-FC-1/8W	RESISTOR 240K 1/8W FIXED COMPOSITION	9	\$0.28
240K-FC-1/2W	RESISTOR 240K OHM 1/2W FIXED COMPOSITION	7	\$1.00
240K-FC-1/4W	RESISTOR 240K OHM 1/4W FIXED COMPOSITION	10	\$1.00
240K-FC-1W	RESISTOR 240K OHM 1W FIXED COMPOSITION	20	\$1.00
240K-FC-2W	RESISTOR 240K OHM 2W FIXED COMPOSITION	2	\$1.00
24K-FC-1/2W	RESISTOR 24K OHM 1/2W FIXED COMPOSITION	9	\$1.00
24K-FP-1/4W	RESISTOR 24K OHM 1/4W FLAMEPROOF	7	\$1.00
24K-FC-1/8W	RESISTOR 24K OHM 1/8W FIXED COMPOSITION	8	\$0.60
24K-FC-1W	RESISTOR 24K OHM 1W FIXED COMPOSITION	14	\$1.00
24K-FC-2W	RESISTOR 24K OHM 2W FIXED COMPOSITION	7	\$1.00
24KOHM 2 WATTS	RESISTOR 24K OHM 2W FLAMEPROOF	3	\$0.90
25.0K-W-1.5W	RESISTOR 25.0K OHM 1.5W WIRE WOUND	2	\$1.00
250K-VR-3/4W	RESISTOR 250K OHM 1/8W VARIABLE	4	\$0.40
585	RESISTOR 25K OHM 50W ADJUSTABLE OHMITE NONWIREWOUND	1	\$10.95
PQ11-120	RESISTOR 25K OHM VARIABLE NONWIRE WOUND 3" FIXED SHAFT	2	\$3.07
27.0-FC-1/2W	RESISTOR 27 OHM 1/2W FIXED COMPOSITION	12	\$0.10
27.0-FC-1/4W	RESISTOR 27 OHM 1/4W FIXED COMPOSITION	12	\$0.10
27.0-FC-1/8W	RESISTOR 27 OHM 1/8W FIXED COMPOSITION	8	\$0.60
27.0-FC-1W	RESISTOR 27 OHM 1W FIXED COMPOSITION	4	\$0.17
27.0-FC-2W	RESISTOR 27 OHM 2W FIXED COMPOSITION	8	\$0.18
27.0-MF-2W	RESISTOR 27 OHM 2W FLAMEPROOF	11	\$0.60
27.0-W-3W	RESISTOR 27.0 OHM 3W WIRE WOUND	5	\$1.00
650-300007-139	RESISTOR 27.4 OHM 5W 1%	4	\$4.00
270.0-FP-1/2W	RESISTOR 270 OHM 1/2W FLAMPROOF	1	\$1.00
270.0-FC-1/4W	RESISTOR 270 OHM 1/4W FIXED	24	\$1.00
270-FC-1/8W	RESISTOR 270 OHM 1/8W FIXED COMPOSITION	9	\$0.27
270.0-W-3W	RESISTOR 270.0 OHM 3W WIRE WOUND	2	\$1.36
270.0-W-5W	RESISTOR 270.0 OHM 5W WIRE WOUND	1	\$1.00
5416	RESISTOR 270K OHM 1/2W FIXED COMPOSITION NO LONGER AVAILABLE F/NASA	5	\$0.09
3503	RESISTOR 270K OHM 1/4W FIXED COMPOSITION	24	\$0.11
270K-FC-1/8W	RESISTOR 270K OHM 1/8W FIXED COMPOSITION	9	\$0.25
270K-FC-1W	RESISTOR 270K OHM 1W FIXED COMPOSITION	3	\$1.00
270K-FC-2W	RESISTOR 270K OHM 2W FIXED COMPOSITION	17	\$1.00
27K-FC-1/2W	RESISTOR 27K OHM 1/2W FIXED COMPOSITION	10	\$1.00
3504	RESISTOR 27K OHM 1/4W FIXED COMPOSITION	22	\$0.05
27K-FC-1/8W	RESISTOR 27K OHM 1/8W FIXED COMPOSITION	2	\$0.65
27K-FC-1W	RESISTOR 27K OHM 1W FIXED COMPOSITION	15	\$1.00
27K-FC-2W	RESISTOR 27K OHM 2W FIXED COMPOSITION	8	\$1.00
27K-FP-2W	RESISTOR 27K OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.17
10F8179	RESISTOR 2K OHM	1	\$0.89
2K-FC-1/2W	RESISTOR 2K OHM 1/2W FLAMEPROOF	10	\$0.20
2K-VR-1/2W	RESISTOR 2K OHM 1/2W VARIABLE	29	\$1.00
708	RESISTOR 2K OHM 1/4W FLAMEPROOF	2	\$0.30
2K-VR-1/4W	RESISTOR 2K OHM 1/4W VARIABLE	7	\$0.60
2K-FC-1/8W	RESISTOR 2K OHM 1/8W FIXED COMPOSITION	4	\$0.20
2K-VR-1W	RESISTOR 2K OHM 1W VARIABLE	12	\$0.50



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2K-FC-2W	RESISTOR 2K OHM 2W FIXED COMPOSITION	5	\$1.00
2MOHM	RESISTOR 2M OHM 1/4W PRECISION	2	\$0.53
308-0873-00	RESISTOR 3 FUSIBLE TEK 4109	5	\$1.00
3.0-FP-1/4W	RESISTOR 3 OHM 1/4W FLAMEPROOF	5	\$0.20
3.0-FC-1/2W	RESISTOR 3.0 OHM 1/2W FIXED COMPOSITION	11	\$1.00
3.0-FC-1/4W	RESISTOR 3.0 OHM 1/4W FIXED COMPOSITION	19	\$0.18
3.0-FP-1/8W	RESISTOR 3.0 OHM 1/8W FLAMEPROOF	5	\$0.18
3.0-FC-1W	RESISTOR 3.0 OHM 1W FIXED COMPOSITION	13	\$0.17
3.0-FP-1W	RESISTOR 3.0 OHM 1W FLAME PROOF	7	\$0.37
3.0-FP-2W	RESISTOR 3.0 OHM 2W FLAMEPROOF METAL OXIDE 5%	10	\$0.17
3.0K-FP-2W	RESISTOR 3.0K OHM 2W FLAMEPROOF METAL OXIDE 5%	8	\$0.17
3.0M-FC-1/2W	RESISTOR 3.0M 1/2W FIXED COMPOSITION	10	\$1.00
3.0M-FC-1/4W	RESISTOR 3.0M 1/4W FIXED COMPOSITION	14	\$1.00
3.0M-FC-1W	RESISTOR 3.0M 1W FIXED COMPOSITION	7	\$1.00
3.0M-FC-2W	RESISTOR 3.0M 2W FIXED COMPOSITION	11	\$1.00
3.3K .25W	RESISTOR 3.3 KOHM 1/4 WATT FLAMEPROOF	5	\$0.30
13-524	RESISTOR 3.3 OHM 1/2W	3	\$0.13
3.3-FC-1/2W	RESISTOR 3.3 OHM 1/2W FIXED COMPOSITION	6	\$0.30
6667	RESISTOR 3.3 OHM 1/4W FIXED COMPOSITION	8	\$0.06
3.3-FC-1W	RESISTOR 3.3 OHM 1W FIXED COMPOSITION	1	\$0.19
3.3K-FC-1/8W	RESISTOR 3.3K OHM 1/8W FIXED COMPOSITION	12	\$0.25
3.3K-FC-1W	RESISTOR 3.3K OHM 1W FIXED COMPOSITION	5	\$1.00
3.3K-FP-1W	RESISTOR 3.3K OHM 1W FLAMEPROOF	3	\$0.30
3.3K-FC-2W	RESISTOR 3.3K OHM 2W FIXED COMPOSITION	3	\$1.00
3.3M-FC-1/2W	RESISTOR 3.3M 1/2W FIXED COMPOSITION	7	\$1.00
3.3M-FC-1/4W	RESISTOR 3.3M 1/4W FIXED COMPOSITION	24	\$1.00
3.3M-FC-1W	RESISTOR 3.3M 1W FIXED COMPOSITION	12	\$1.00
3.3M-FC-2W	RESISTOR 3.3M 2W FIXED COMPOSITION	11	\$1.00
817261118	RESISTOR 3.573K OHM 1/8W .1% METAL FILM S1R9D	8	\$0.88
3.6-FC-1/4W	RESISTOR 3.6 OHM 1/4W FIXED COMPOSITION	22	\$0.17
3.6-FC-1W	RESISTOR 3.6 OHM 1W FIXED COMPOSITION	9	\$0.22
3.6-FC-1/2W	RESISTOR 3.6 OHM FIXED 1/2W FIXED COMPOSITION	8	\$0.20
3.6K-FC-1/2W	RESISTOR 3.6K OHM 1/2W FLAMEPROOF	12	\$0.20
3.6K-FC-1/4W	RESISTOR 3.6K OHM 1/4W FIXED COMPOSITION	9	\$1.00
3.6K-FC-1/8W	RESISTOR 3.6K OHM 1/8W FIXED COMPOSITION	10	\$0.27
3.6K-FC-1W	RESISTOR 3.6K OHM 1W FIXED COMPOSITION	12	\$1.00
3.6K-FC-2W	RESISTOR 3.6K OHM 2W FIXED COMPOSITION	10	\$1.00
3.6M-FC-1/2W	RESISTOR 3.6M 1/2W FIXED COMPOSITION	18	\$1.00
3.6M-FC-1/4W	RESISTOR 3.6M 1/4W FIXED COMPOSITION	9	\$1.00
3.6M-FC-1W	RESISTOR 3.6M 1W FIXED COMPOSITION	8	\$1.00
3.6M-FC-2W	RESISTOR 3.6M 2W FIXED COMPOSITION	13	\$1.00
3.9-FC-1/2W	RESISTOR 3.9 OHM 1/2W FIXED COMPOSITE	12	\$0.30
4560R	RESISTOR 3.9 OHM 1/4W FIXED COMPOSITION	16	\$0.05
3.9-FC-1W	RESISTOR 3.9 OHM 1W FIXED COMPOSITION	10	\$0.60
743	RESISTOR 3.9K OHM 1/4W 3900 OHM FIXED COMPOSITION	17	\$0.10
3.9K-FC-1/8W	RESISTOR 3.9K OHM 1/8W FIXED COMPOSITION	9	\$0.27
3.9K-FC-1W	RESISTOR 3.9K OHM 1W FIXED COMPOSITION	3	\$1.00
3.9K-FC-2W	RESISTOR 3.9K OHM 2W FIXED COMPOSITION	6	\$1.00
3.9K-FP-2W	RESISTOR 3.9K OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.17
3.9M-FC-1/2W	RESISTOR 3.9M 1/2W FIXED COMPOSITION	9	\$1.00
3.9M-FC-1/4W	RESISTOR 3.9M 1/4W FIXED COMPOSITION	7	\$1.00
3.9M-FC-1W	RESISTOR 3.9M 1W FIXED COMPOSITION	9	\$1.00
3.9M-FC-2W	RESISTOR 3.9M 2W FIXED COMPOSITION	3	\$1.00
30.0-FC-1/2W	RESISTOR 30 OHM 1/2W FIXED COMPOSITION	2	\$0.10
30.0-FC-1/4W	RESISTOR 30 OHM 1/4W FIXED COMPOSITION	12	\$0.10
30.0-MF-1/4W	RESISTOR 30 OHM 1/4W METAL FILM	14	\$0.16
30.0-FC-1W	RESISTOR 30 OHM 1W FIXED COMPOSITION	4	\$0.17
30.0-FC-2W	RESISTOR 30 OHM 2W FIXED COMPOSITION	6	\$0.21
30-FP-2W	RESISTOR 30 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.60
30.0-FP-1/2W	RESISTOR 30.0 OHM 1/2W FLAMEPROOF	20	\$0.18
30.0-FP-1W	RESISTOR 30.0 OHM 1W FLAMEPROOF	10	\$1.00
832-3612	RESISTOR 30.1K 1% 1/2W	97	\$0.06
300.0-FC-1/2W	RESISTOR 300 OHM 1/2W FIXED	8	\$0.10
300.0-FP-1/2W	RESISTOR 300 OHM 1/2W FLAMEPROOF	6	\$1.00
2519	RESISTOR 300 OHM 1/4W FIXED COMPOSITION	6	\$3.30
300.0-FP-1/4W	RESISTOR 300 OHM 1/4W FLAMEPROOF	11	\$1.00
300-FC-1/8W	RESISTOR 300 OHM 1/8W FIXED COMPOSITION	2	\$0.30
300.0-FC-1W	RESISTOR 300 OHM 1W FIXED	10	\$1.00
300.0-FP-1W	RESISTOR 300 OHM 1W FLAMEPROOF	7	\$1.00
300.0-FC-2W	RESISTOR 300 OHM 2W FIXED	3	\$1.00
B8J300	RESISTOR 300 OHM 8W WIRE WOUND	2	\$2.19

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
300K-FC-1/2W	RESISTOR 300K OHM 1/2W FIXED COMPOSITION	12	\$1.00
300K-FC-1/4W	RESISTOR 300K OHM 1/4W FIXED COMPOSITION	2	\$1.00
300K-FC-1/8W	RESISTOR 300K OHM 1/8W FIXED COMPOSITION	9	\$0.30
300K-FC-1W	RESISTOR 300K OHM 1W FIXED COMPOSITION	10	\$1.00
300K-FC-2W	RESISTOR 300K OHM 2W FIXED COMPOSITION	8	\$1.00
30K-FC-1/2W	RESISTOR 30K OHM 1/2W FIXED COMPOSITION	8	\$1.00
9920	RESISTOR 30K OHM 1/4W FIXED COMPOSITION	15	\$0.11
30K-FC-1W	RESISTOR 30K OHM 1W FIXED COMPOSITION	8	\$1.00
30K-FP-2W	RESISTOR 30K OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
31.0-FC-1/8W	RESISTOR 31 OHM 1/8W FIXED COMPOSITION	10	\$0.60
33.0-FC-1/2W	RESISTOR 33 OHM 1/2W FIXED COMPOSITION	11	\$0.25
33.0-MF-1/4W	RESISTOR 33 OHM 1/4W METAL FILM	4	\$0.26
33-FC-1/8W	RESISTOR 33 OHM 1/8W FIXED COMPOSITION	5	\$0.08
33.0-FC-1W	RESISTOR 33 OHM 1W FIXED COMPOSITION	7	\$0.17
33.0-2W	RESISTOR 33 OHM 2W (FOR STOCK INFORMATION ONLY 3 IN STOCK ARE FIXED COMP. 7 IN STOCK ARE FLAMEP	9	\$0.60
0757-0054	RESISTOR 330 OHM 1/4W 5% METAL FILM	4	\$0.30
7703	RESISTOR 330 OHM 1/8W FIXED COMPOSITION	2	\$0.24
330.0-FC-1W	RESISTOR 330 OHM 1W FIXED	16	\$1.00
330.0-FC-2W	RESISTOR 330 OHM 2W FIXED	2	\$1.00
330.0-W-3W	RESISTOR 330.0 OHM 3W WIRE WOUND	3	\$1.00
6683	RESISTOR 3300 OHM 1/4W 3.3K	5	\$0.10
13-1563	RESISTOR 330K OHM 2 WATT FLAMEPROOF	5	\$0.40
330K-FC-1/2W	RESISTOR 330K OHM 1/2W FIXED COMPOSITION	7	\$1.00
4545	RESISTOR 330K OHM 1/4W FIXED COMPOSITION	18	\$0.12
330K-FC-1/8W	RESISTOR 330K OHM 1/8W FIXED COMPOSITION	13	\$1.00
330K-FC-1W	RESISTOR 330K OHM 1W FIXED COMPOSITION	3	\$0.35
330K-FP-1W	RESISTOR 330K OHM 1W FLAMEDPROOF	8	\$1.00
330K-FC-2W	RESISTOR 330K OHM 2W FIXED COMPOSITION	11	\$1.00
8330	RESISTOR 33K OHM 1/2W FIXED COMPOSITION	4	\$0.07
33K-FP-1/2W	RESISTOR 33K OHM 1/2W FLAMEPROOF	6	\$0.25
4559	RESISTOR 33K OHM 1/4W FIXED COMPOSITION	19	\$0.09
33K-FC-1/8W	RESISTOR 33K OHM 1/8W FIXED COMPOSITION	7	\$0.20
33K-FC-1W	RESISTOR 33K OHM 1W FIXED COMPOSITION	12	\$1.00
33K-FC-2W	RESISTOR 33K OHM 2W FIXED COMPOSITION	4	\$1.00
33K-FP-2W	RESISTOR 33K OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
13F3505	RESISTOR 35 OHM 2W WIRE WOUND	2	\$1.00
36.0-FC-1/2W	RESISTOR 36 OHM 1/2W FIXED COMPOSITION	12	\$0.10
36.0-FC-1/4W	RESISTOR 36 OHM 1/4W FIXED COMPOSITION	9	\$1.00
36.0-MF-1/4W	RESISTOR 36 OHM 1/4W.METAL FILM	11	\$1.00
36-FC-1/8W	RESISTOR 36 OHM 1/8W FIXED COMPOSITION	10	\$0.30
36.0-FC-1W	RESISTOR 36 OHM 1W FIXED COMPOSITION	10	\$0.17
36.0-FC-2W	RESISTOR 36 OHM 2W FIXED COMPOSITION	7	\$0.15
360.0-FC-1/2W	RESISTOR 360 OHM 1/2W FLAMEPROOF	3	\$0.20
360.0-FC-1/4W	RESISTOR 360 OHM 1/4W FLAMEPROOF	11	\$0.30
360.0-FC-2W	RESISTOR 360 OHM 2W FIXED	5	\$1.00
360.0-FC-1W	RESISTOR 360.0 OHM 1W FIXED	8	\$1.00
360K-FC-1/2W	RESISTOR 360K OHM 1/2W FIXED COMPOSITION	17	\$1.00
360K-FC-1/4W	RESISTOR 360K OHM 1/4W FIXED COMPOSITION	24	\$1.00
360K-FC-1/8W	RESISTOR 360K OHM 1/8W FIXED COMPOSITION	7	\$0.50
360K-FC-1W	RESISTOR 360K OHM 1W FIXED COMPOSITION	8	\$1.00
360K-FC-2W	RESISTOR 360K OHM 2W FIXED COMPOSITION	8	\$1.00
36K-FC-1/2W	RESISTOR 36K OHM 1/2W FIXED COMPOSITION	15	\$1.00
36K-FC-1/4W	RESISTOR 36K OHM 1/4W FIXED COMPOSITION	14	\$1.00
36K-FC-1/8W	RESISTOR 36K OHM 1/8W FIXED COMPOSITION	32	\$0.30
36K-FC-1W	RESISTOR 36K OHM 1W FIXED COMPOSITION	25	\$1.00
36K-FC-2W	RESISTOR 36K OHM 2W FIXED COMPOSITION	5	\$1.00
39.0-FC-1/2W	RESISTOR 39 OHM 1/2W FIXED COMPOSITION	36	\$1.00
39.0-FC-1/4W	RESISTOR 39 OHM 1/4W FIXED COMPOSITION	10	\$1.00
39.0-MF-1/4W	RESISTOR 39 OHM 1/4W METAL FILM	6	\$1.00
39-FC-1/8W	RESISTOR 39 OHM 1/8W FIXED COMPOSITION	9	\$0.30
39.0-FC-1W	RESISTOR 39 OHM 1W FIXED COMPOSITION	6	\$1.00
39.0-FC-2W	RESISTOR 39 OHM 2W FIXED COMPOSITION	1	\$1.00
39-FP-2W	RESISTOR 39 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
39.0-W-3W	RESISTOR 39.0 OHM 3W WIRE WOUND	7	\$1.00
390.0-FC-1/2W	RESISTOR 390 OHM 1/2W FIXED	6	\$1.00
9932	RESISTOR 390 OHM 1/4W FIXED	3	\$0.15
390-FC-1/8W	RESISTOR 390 OHM 1/8W FIXED COMPOSITION	10	\$0.20
1149	RESISTOR 390 OHM 1W FIXED	8	\$0.26
390.0-FC-2W	RESISTOR 390 OHM 2W FIXED	4	\$0.75
390.0-W-3W	RESISTOR 390.0 OHM 3W WIRE WOUND	2	\$0.38
390K-FC-1/2W	RESISTOR 390K OHM 1/2W FIXED COMPOSITION	10	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
3562	RESISTOR 390K OHM 1/4W FIXED COMPOSITION	3	\$0.06
390K-FC-1/8W	RESISTOR 390K OHM 1/8W FIXED COMPOSITION	15	\$0.30
390K-FC-1W	RESISTOR 390K OHM 1W FIXED COMPOSITION	9	\$1.00
390K-FC-2W	RESISTOR 390K OHM 2W FIXED COMPOSITION	10	\$1.00
39K-FC-1/2W	RESISTOR 39K OHM 1/2W FIXED COMPOSITION	14	\$1.00
8055	RESISTOR 39K OHM 1/4W FIXED COMPOSITION	12	\$0.06
39K-FP-1/4W	RESISTOR 39K OHM 1/4W FLAMEPROOF	12	\$1.00
39K-FC-1/8W	RESISTOR 39K OHM 1/8W FIXED COMPOSITION	6	\$0.30
39K-FC-1W	RESISTOR 39K OHM 1W FIXED COMPOSITION	12	\$1.00
39K-FC-2W	RESISTOR 39K OHM 2W FIXED COMPOSITION	8	\$1.00
39K-FP-2W	RESISTOR 39K OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.17
3K-FC-1/2W	RESISTOR 3K OHM 1/2W FLAMEPROOF	4	\$0.20
6001	RESISTOR 3K OHM 1/4W FIXED COMPOSITION	11	\$0.41
3K-FC-1/8W	RESISTOR 3K OHM 1/8W FIXED COMPOSITION	8	\$0.32
3K FC 1W	RESISTOR 3K OHM 1W FIXED COMPOSITION	10	\$1.00
3K FC 2W FIXED COM	RESISTOR 3K OHM 2W FIXED COMPOSITION	6	\$1.00
4.3-FC-1/2W	RESISTOR 4.3 OHM 1/2W FIXED COMPOSITION	13	\$0.18
4.3-FC-1/4W	RESISTOR 4.3 OHM 1/4W FIXED COMPOSITION	17	\$0.17
4.3-FC-1W	RESISTOR 4.3 OHM 1W FIXED COMPOSITION	6	\$0.20
4.3K-FC-1/2W	RESISTOR 4.3K OHM 1/2W FIXED COMPOSITION	10	\$1.00
8431	RESISTOR 4.3K OHM 1/4W FIXED COMPOSITION	3	\$0.13
4.3K-FC-1W	RESISTOR 4.3K OHM 1W FIXED COMPOSITION	17	\$1.00
4.3K-FC-2W	RESISTOR 4.3K OHM 2W FIXED COMPOSITION	3	\$1.00
4.3K-FC-1/8W	RESISTOR 4.3K-FC-1/8W FIXED COMPOSITION	9	\$0.27
4.3M-FC-1/2W	RESISTOR 4.3M 1/2W FIXED COMPOSITION	13	\$1.00
4.3M-FC-1/4W	RESISTOR 4.3M 1/4W FIXED COMPOSITION	27	\$1.00
4.3M-FC-1W	RESISTOR 4.3M 1W FIXED COMPOSITION	25	\$1.00
4.3M-FC-2W	RESISTOR 4.3M 2W FIXED COMPOSITION	12	\$1.00
4.7-FC-1/2W	RESISTOR 4.7 OHM 1/2W FIXED COMPOSITION	20	\$0.10
4.7-FP-1/2W	RESISTOR 4.7 OHM 1/2W FLAMEPROOF	5	\$0.30
4.7-FP-1/4W	RESISTOR 4.7 OHM 1/4W FLAMEPROOF	5	\$0.60
4.7-FP-1W	RESISTOR 4.7 OHM 1W FLAMEPROOF	11	\$1.00
4.7-FP-2W	RESISTOR 4.7 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
4.7K-FC-1/8W	RESISTOR 4.7K OHM 1/8W FIXED COMPOSITION	48	\$0.15
4.7K-FC-1W	RESISTOR 4.7K OHM 1W FIXED COMPOSITION	3	\$1.00
4.7K-FC-2W	RESISTOR 4.7K OHM 2W FIXED COMPOSITION	6	\$1.00
4.7K-FP-2W	RESISTOR 4.7K OHM 2W FLAMEPROOF METAL OXIDE 5%	2	\$0.75
4.7M-FC-1/2W	RESISTOR 4.7M 1/2W FIXED COMPOSITION	31	\$1.00
4.7M-FC-1/4W	RESISTOR 4.7M 1/4W FIXED COMPOSITION	18	\$1.00
4.7M-FC-1W	RESISTOR 4.7M 1W FIXED COMPOSITION	2	\$1.00
4.7M-FC-2W	RESISTOR 4.7M 2W FIXED COMPOSITION	11	\$1.00
832-3465	RESISTOR 4.99K 1% 1/2W	92	\$0.06
400.0K-W-1.5W	RESISTOR 400.0K OHM 1.5W WIRE WOUND	10	\$1.00
43.0-FC-1/2W	RESISTOR 43 OHM 1/2W FIXED COMPOSITION	9	\$1.00
43.0-FC-1/4W	RESISTOR 43 OHM 1/4W FIXED COMPOSITION	10	\$1.00
43.0-MF-1/4W	RESISTOR 43 OHM 1/4W METAL FILM	12	\$1.00
43-FC-1/8W	RESISTOR 43 OHM 1/8W FIXED COMPOSITION	4	\$0.30
43.0-FC-1W	RESISTOR 43 OHM 1W FIXED COMPOSITION	31	\$1.00
43.0-FC-2W	RESISTOR 43 OHM 2W FIXED COMPOSITION	3	\$0.35
430.0-FC-1/2W	RESISTOR 430 OHM 1/2W FIXED	25	\$0.10
430.0-FC-1/4W	RESISTOR 430 OHM 1/4W FIXED	5	\$1.00
430.0-FP-1/4W	RESISTOR 430 OHM 1/4W FLAMEPROOF	3	\$1.00
430-FC-1/8W	RESISTOR 430 OHM 1/8W FIXED COMPOSITION	5	\$0.50
430.0-FC-1W	RESISTOR 430 OHM 1W FIXED	7	\$1.00
430.0-FC-2W	RESISTOR 430 OHM 2W FIXED	4	\$1.00
430K-FC-1/4W	RESISTOR 430K OHM 1/4W FIXED COMPOSITION	13	\$1.00
430K-FC-1/8W	RESISTOR 430K OHM 1/8W FIXED COMPOSITION	11	\$0.35
430K-FC-1W	RESISTOR 430K OHM 1W FIXED COMPOSITION	24	\$1.00
430K-FC-2W	RESISTOR 430K OHM 2W FIXED COMPOSITION	12	\$1.00
430K-FC-1/2W	RESISTOR 430K OHM FIXED COMPOSITION	7	\$1.00
43K-FC-1/2W	RESISTOR 43K OHM 1/2W FIXED COMPOSITION	10	\$1.00
4	RESISTOR 43K OHM 1/4W FIXED COMPOSITION	17	\$0.16
43K-FC-1/8W	RESISTOR 43K OHM 1/8W FIXED COMPOSITION	6	\$0.32
43K-FC-1W	RESISTOR 43K OHM 1W FIXED COMPOSITION	13	\$1.00
43K-FC-2W	RESISTOR 43K OHM 2W FIXED COMPOSITION	22	\$1.00
7049	RESISTOR 47 OHM 1/8W FIXED COMPOSITION	6	\$0.21
47.0-FC-1W	RESISTOR 47 OHM 1W FIXED COMPOSITION	2	\$0.30
47.0-FC-2W	RESISTOR 47 OHM 2W FIXED COMPOSITION	8	\$1.00
47-FP-2W	RESISTOR 47 OHM 2W FLAMEPROOF METAL OXIDE 5%	8	\$0.60
47.0-FC-1/2W	RESISTOR 47.0 OHM 1/2W FLAMEPROOF	5	\$0.20
47.0-W-3W	RESISTOR 47.0 OHM 3W WIRE WOUND	7	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
12801696	RESISTOR 47.25K .05%	2	\$5.00
301-0471-00	RESISTOR 470 OHM 1/4W FIXED COMPOSITION	1	\$4.00
4858	RESISTOR 470 OHM 1/2W FIXED	4	\$0.13
470.0-FP-1/2W	RESISTOR 470 OHM 1/2W FLAMEPROOF	4	\$0.25
9154	RESISTOR 470 OHM 1/4W FIXED	2	\$0.46
47-FP-1/4W	RESISTOR 470 OHM 1/4W FLAMEPROOF	3	\$0.30
5758	RESISTOR 470 OHM 1/8W FIXED COMPOSITION	7	\$0.30
8732	RESISTOR 470 OHM 1W FIXED	3	\$0.27
470.0-FP-1W	RESISTOR 470 OHM 1W FLAMEPPROOF	12	\$1.00
470.0-FP-2W	RESISTOR 470 OHM 2W FLAMEPROOF	2	\$1.00
93J470	RESISTOR 470 OHM 3-1/4W WIRE WOUND	9	\$1.00
470.0-W-3W	RESISTOR 470.0 OHM 3W WIRE WOUND	5	\$3.25
470K-1/2W	RESISTOR 470K OHM 1/2W FLAMEPROOF	3	\$0.20
5610	RESISTOR 470K OHM 1/4W FIXED COMPOSITION	4	\$0.14
2022	RESISTOR 470K OHM 1/8W FIXED COMPOSITION	4	\$0.30
470K-FC-1W	RESISTOR 470K OHM 1W FLAMEPROOF	3	\$0.30
470K-2W	RESISTOR 470K OHM 2W FLAMEPROOF	6	\$0.60
47K-FC-1/8W	RESISTOR 47K 1/8W FIXED COMPOSITION	4	\$0.33
47K-FC-1/2W	RESISTOR 47K OHM 1/2W FIXED COMPOSITION	10	\$0.22
717	RESISTOR 47K OHM 1/4W (1 EA.LEFT IN STOCK FIXED COMPOSITION) REPLACE WITH FLAMEPROOF	4	\$0.30
47K-FC-1W	RESISTOR 47K OHM 1W FIXED COMPOSITION	4	\$1.00
47K-FC-2W	RESISTOR 47K OHM 2W FIXED COMPOSITION	5	\$1.00
47K-FP-2W	RESISTOR 47K OHM 2W FLAMEPROOF METAL OXIDE 5%	2	\$0.17
47KOHM	RESISTOR 47KOHM 1/4W PRECISION	86	\$0.03
832-7306	RESISTOR 499 OHM 1%.1/4W	97	\$0.03
5.1-FC-1/2W	RESISTOR 5.1 OHM 1/2W FIXED COMPOSITION	9	\$0.18
5.1-FC-1/4W	RESISTOR 5.1 OHM 1/4W FIXED COMPOSITION	19	\$0.18
5.1-FC-1W	RESISTOR 5.1 OHM 1W FIXED COMPOSITION	7	\$0.17
5.1-FP-1W	RESISTOR 5.1 OHM 1W FLAMEPROOF	14	\$0.22
5.1K-FC-1/2W	RESISTOR 5.1K OHM 1/2W FIXED COMPOSITION	3	\$1.00
5.1K-FP-1/2W	RESISTOR 5.1K OHM 1/2W FLAMEPROOF	14	\$1.00
1679	RESISTOR 5.1K OHM 1/4W FIXED COMPOSITION	4	\$0.30
5.1K-FC-1/8W	RESISTOR 5.1K OHM 1/8W FIXED COMPOSITION	6	\$0.61
5.1K-FP-1W	RESISTOR 5.1K OHM 1W FLAMEPROOF	13	\$1.00
5.1K-FC-2W	RESISTOR 5.1K OHM 2W FIXED COMPOSITION	1	\$1.00
5.1K-FP-2W	RESISTOR 5.1K OHM 2W FLAMEPROOF	15	\$0.17
5.1M-FC-1/2W	RESISTOR 5.1M 1/2W FIXED COMPOSITION	12	\$1.00
5.1M-FC-1/4W	RESISTOR 5.1M 1/4W FIXED COMPOSITION	20	\$1.00
5.1M-FC-1W	RESISTOR 5.1M 1W FIXED COMPOSITION	6	\$1.00
5.1M-FC-2W	RESISTOR 5.1M 2W FIXED COMPOSITION	4	\$1.00
5.6-FC-1/2W	RESISTOR 5.6 OHM 1/2W FIXED COMPOSITE	20	\$0.10
333	RESISTOR 5.6 OHM 1/4W FIXED COMPOSITION	5	\$0.06
5.6-FC-1W	RESISTOR 5.6 OHM 1W FIXED COMPOSITION	9	\$0.22
5.6-FP-2W	RESISTOR 5.6 OHM 2W FLAMEPROOF METAL OXIDE 5%	10	\$0.17
1116	RESISTOR 5.6K OHM 1/2W FIXED COMPOSITION	9	\$0.12
744	RESISTOR 5.6K OHM 1/4W FIXED COMPOSITION	15	\$0.25
5.6K-FC-1/8W	RESISTOR 5.6K OHM 1/8W FIXED COMPOSITION	9	\$0.27
5.6K-FC-1W	RESISTOR 5.6K OHM 1W FIXED COMPOSITION	2	\$1.00
5.6K-FC-2W	RESISTOR 5.6K OHM 2W 1 - FIXED COMPOSITION FLAMEPROOF	5	\$0.60
5.6M-FC-1/2W	RESISTOR 5.6M 1/2W FIXED COMPOSITION	23	\$1.00
5.6M-FC-1/4W	RESISTOR 5.6M 1/4W FIXED COMPOSITION	18	\$1.00
5.6M-FC-1W	RESISTOR 5.6M 1W FIXED COMPOSITION	8	\$1.00
5.6M-FC-2W	RESISTOR 5.6M 2W FIXED COMPOSITION	8	\$1.00
63P501	RESISTOR 500 OHM 1/2W VARIABLE MANF.PART#63P501	2	\$2.95
500-VR-1/4W	RESISTOR 500 OHM 1/4W VARIABLE	3	\$0.50
500-VR-3/4W	RESISTOR 500 OHM 3/4W VARIABLE	76	\$0.60
500.0K-W-1.5W	RESISTOR 500.0K OHM 1.5W WIRE WOUND	5	\$1.00
500K-VR-1W	RESISTOR 500K OHM 1W VARIABLE	3	\$0.75
50K-VR-1/2W	RESISTOR 50K OHM 1/2W VARIABLE	2	\$2.20
50-VR-1/4W	RESISTOR 50K OHM 1/4W VARIABLE	3	\$2.90
50K-VR-1W	RESISTOR 50K OHM 1W VARIABLE	13	\$0.75
51.0-FC-1/2W	RESISTOR 51 OHM 1/2W FIXED COMPOSITION	8	\$0.25
51.0-FP-1/2W	RESISTOR 51 OHM 1/2W FLAMEPROOF	7	\$0.20
51.0-MF-1/2W	RESISTOR 51 OHM 1/2W METAL FILM	3	\$1.00
51.0-FC-1/4W	RESISTOR 51 OHM 1/4W FIXED COMPOSITION	5	\$0.30
51.0-MF-1/4W	RESISTOR 51 OHM 1/4W FLAMEPROOF	5	\$0.30
51-FC-1/8W	RESISTOR 51 OHM 1/8W FIXED COMPOSITION	11	\$0.20
51.0-FC-1W	RESISTOR 51 OHM 1W FIXED COMPOSITION	4	\$1.00
51.0-MF-1W	RESISTOR 51 OHM 1W FLAMEPROOF	13	\$1.00
51.0-FC-2W	RESISTOR 51 OHM 2W FIXED COMPOSITION	3	\$1.00
51-FP-2W	RESISTOR 51 OHM 2W FLAMEPROOF METAL OXIDE 5%	10	\$0.19

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
510.0-FP-1/2W	RESISTOR 510 OHM 1/2W FLAMEPROOF	2	\$1.00
510.0-FC-1/4W	RESISTOR 510 OHM 1/4W FIXED	14	\$1.00
510.0-FP-1/4W	RESISTOR 510 OHM 1/4W FLAMEPROOF	3	\$1.00
510-FC-1/8W	RESISTOR 510 OHM 1/8W FIXED COMPOSITION	9	\$0.50
510.0-FC-1W	RESISTOR 510 OHM 1W FIXED	2	\$1.00
510.0-FP-1W	RESISTOR 510 OHM 1W FLAMEPROOF	7	\$1.00
510.0-FC-2W	RESISTOR 510 OHM 2W FIXED	3	\$1.00
510.0-FP-2W	RESISTOR 510 OHM 2W FLAMEPROOF	10	\$1.00
510K-FC-1/2W	RESISTOR 510K OHM 1/2W FIXED COMPOSITION	13	\$0.37
510K-FC-1W	RESISTOR 510K OHM 1W FIXED COMPOSITION	11	\$0.17
510K-FC-2W	RESISTOR 510K OHM 2W FIXED COMPOSITION	6	\$0.18
51K-FC-1/2W	RESISTOR 51K OHM 1/2W FIXED COMPOSITION	12	\$1.00
51K-FP-1/2W	RESISTOR 51K OHM 1/2W FLAMEPROOF	18	\$1.00
3890	RESISTOR 51K OHM 1/4W FIXED COMPOSITION	2	\$0.06
51K-FC-1/8W	RESISTOR 51K OHM 1/8W FIXED COMPOSITION	6	\$0.34
51K-FC-1W	RESISTOR 51K OHM 1W FIXED COMPOSITION	2	\$0.30
51K-FP-1W	RESISTOR 51K OHM 1W FIXED COMPOSITION	7	\$1.00
51K-FC-2W	RESISTOR 51K OHM 2W FIXED COMPOSITION	9	\$1.00
51K-FP-2W	RESISTOR 51K OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.17
56.0-FC-1/2W	RESISTOR 56 OHM 1/2W FLAMEPROOF	5	\$0.20
440	RESISTOR 56 OHM 1/4W FIXED COMPOSITION	17	\$0.06
56.0-FC-1W	RESISTOR 56 OHM 1W FIXED COMPOSITION	7	\$1.00
56.0-FC-2W	RESISTOR 56 OHM 2W FIXED COMPOSITION	4	\$1.00
56.0-W-3W	RESISTOR 56.0 OHM 3W WIRE WOUND	3	\$2.35
7768	RESISTOR 560 OHM 1/4W FIXED COMPOSITION	5	\$0.10
560-FC-1/8W	RESISTOR 560 OHM 1/8W FIXED COMPOSITION	34	\$0.60
560.0-FC-1W	RESISTOR 560 OHM 1W FIXED	5	\$1.00
560.0-FC-2W	RESISTOR 560 OHM 2W FIXED	3	\$1.00
560K-1/2W	RESISTOR 560K 1/2W FLAMEPROOF	10	\$0.20
560K-FC-1/4W	RESISTOR 560K 1/4W FIXED COMPOSITION	7	\$0.18
560K-FC-1/8W	RESISTOR 560K OHM 1/8W FIXED COMPOSITION	9	\$0.60
560K-FC-1W	RESISTOR 560K OHM 1W FIXED COMPOSITION	10	\$0.17
560K-FC-2W	RESISTOR 560K OHM 2W FIXED COMPOSITION	17	\$0.18
56K-FC-1/2W	RESISTOR 56K OHM 1/2W FIXED COMPOSITION	10	\$1.00
1357	RESISTOR 56K OHM 1/4W FIXED COMPOSITION	13	\$0.48
56K-FC-1/8W	RESISTOR 56K OHM 1/8W FIXED COMPOSITION	8	\$0.32
56K-FC-1W	RESISTOR 56K OHM 1W FIXED COMPOSITION	17	\$1.00
56K-FC-2W	RESISTOR 56K OHM 2W FIXED COMPOSITION	7	\$1.00
56K-FP-2W	RESISTOR 56K OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
570K-FC-1/8W	RESISTOR 570K OHM 1/8W FIXED COMPOSITION	7	\$0.30
5K-VR-1/2W	RESISTOR 5K OHM 1/2W VARIABLE	1	\$1.32
5K-VR-1/4W	RESISTOR 5K OHM 1/4W VARIABLE	3	\$0.55
5K-VR-1W	RESISTOR 5K OHM 1W VARIABLE	9	\$0.60
5K-VR-3/4W	RESISTOR 5K OHM 3/4W VARIABLE	7	\$0.65
6.2-FC-1/2W	RESISTOR 6.2 OHM 1/2W FIXED COMPOSITION	26	\$0.18
6.2-FC-1/4W	RESISTOR 6.2 OHM 1/4W FIXED COMPOSITION	15	\$0.17
6.2-FC-1W	RESISTOR 6.2 OHM 1W FIXED COMPOSITION	17	\$0.17
6.2-FP-1W	RESISTOR 6.2 OHM 1W FLAMEPROOF	6	\$0.20
6.2K-FC-1/2W	RESISTOR 6.2K OHM 1/2W FIXED COMPOSITION	14	\$1.00
6.2K-FC-1/4W	RESISTOR 6.2K OHM 1/4W FIXED COMPOSITION	12	\$1.00
6.2K-FC-1/8W	RESISTOR 6.2K OHM 1/8W FIXED COMPOSITION	8	\$0.25
6.2K-FC-1W	RESISTOR 6.2K OHM 1W FIXED COMPOSITION	12	\$1.00
6.2K-FC-2W	RESISTOR 6.2K OHM 2W	5	\$1.00
6.2K-FP-2W	RESISTOR 6.2K OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.17
6.2M-FC-1/2W	RESISTOR 6.2M 1/2W FIXED COMPOSITION	6	\$1.00
6.2M-FC-1/4W	RESISTOR 6.2M 1/4W FIXED COMPOSITION	15	\$1.00
6.2M-FC-1W	RESISTOR 6.2M 1W FIXED COMPOSITION	13	\$1.00
6.2M-FC-2W	RESISTOR 6.2M 2W FIXED COMPOSITION	10	\$1.00
6.8-FC-1/2W	RESISTOR 6.8 OHM 1/2W FIXED COMPOSITION	9	\$0.15
6.8-FC-1/4W	RESISTOR 6.8 OHM 1/4W FIXED COMPOSITION	22	\$0.15
6.8-FC-1W	RESISTOR 6.8 OHM 1W FIXED COMPOSITION	7	\$0.17
6.8-TH-1W	RESISTOR 6.8 OHM 1W FLAMEPROOF	10	\$0.23
6.8-FP-2W	RESISTOR 6.8 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
6.8K-FC-1/2W	RESISTOR 6.8K OHM 1/2W FIXED COMPOSITION	33	\$1.00
7622	RESISTOR 6.8K OHM 1/4W FIXED COMPOSITION	13	\$0.11
6.8K-FC-1W	RESISTOR 6.8K OHM 1W FIXED COMPOSITION	8	\$1.00
6.8K-FP-2W	RESISTOR 6.8K OHM 2W FLAMEPROOF	10	\$0.60
6.8M-FC-1/2W	RESISTOR 6.8M 1/2W FIXED COMPOSITION	17	\$1.00
6.8M-FC-1/4W	RESISTOR 6.8M 1/4W FIXED COMPOSITION	8	\$1.00
6.8M-FC-1W	RESISTOR 6.8M 1W FIXED COMPOSITION	12	\$1.00
6.8M-FC-2W	RESISTOR 6.8M 2W FIXED COMPOSITION	4	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
6.9K-FC-1/8W	RESISTOR 6.9K OHM 1/8W FIXED COMPOSITION	9	\$0.27
RX1-600M	RESISTOR 600MEG OHM 1% VICTOREEN	1	\$11.85
62.0-FC-1/2W	RESISTOR 62 OHM 1/2W FIXED COMPOSITION	9	\$1.00
62.0-FC-1/4W	RESISTOR 62 OHM 1/4W FIXED COMPOSITION	13	\$1.00
62-FC-1/8W	RESISTOR 62 OHM 1/8W FIXED COMPOSITION	9	\$0.30
62.0-FC-1W	RESISTOR 62 OHM 1W FIXED COMPOSITION	5	\$1.00
62.0-FC-2W	RESISTOR 62 OHM 2W FIXED COMPOSITION	12	\$1.00
620.0-FC-1/2W	RESISTOR 620 OHM 1/2W FIXED	2	\$1.00
620-FC-1/8W	RESISTOR 620 OHM 1/8W FIXED COMPOSITION	4	\$0.60
620.0-FC-1W	RESISTOR 620 OHM 1W FIXED	8	\$1.00
620.0-FC-2W	RESISTOR 620 OHM 2W FIXED	4	\$1.00
6200 OHM	RESISTOR 6200 OHM 2W FIXED COMPOSITION 6.2K	5	\$0.45
620K-FC-1/2W	RESISTOR 620K 1/2W FIXED COMPOSTION	9	\$0.20
620K-FC-1/4W	RESISTOR 620K OHM 1/4W FIXED COMPOSITION	11	\$0.18
620K-FC-1/8W	RESISTOR 620K OHM 1/8W FIXED COMPOSITION	9	\$0.65
620K-FC-1W	RESISTOR 620K OHM 1W FIXED COMPOSITION	13	\$0.17
620K-FC-2W	RESISTOR 620K OHM 2W FIXED COMPOSITION	9	\$0.18
62K-FC-1/2W	RESISTOR 62K OHM 1/2W FIXED COMPOSITION	8	\$1.00
62K-FP-1/2W	RESISTOR 62K OHM 1/2W FLAMEPROOF	10	\$1.00
8360	RESISTOR 62K OHM 1/4W FIXED COMPOSITION	22	\$0.13
62K-FC-1/8W	RESISTOR 62K OHM 1/8W FIXED COMPOSITION	2	\$0.32
62K-FC-1W	RESISTOR 62K OHM 1W FIXED COMPOSITION	12	\$1.00
62K-FC-2W	RESISTOR 62K OHM 2W FIXED COMPOSITION	7	\$1.00
62K-FP-2W	RESISTOR 62K OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
68.0-FC-1/2W	RESISTOR 68 OHM 1/2W FIXED COMPOSITION	17	\$1.00
68.0-FC-1W	RESISTOR 68 OHM 1W FIXED COMPOSITION	21	\$1.00
68-FP-2W	RESISTOR 68 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
68.0-FC-1/4W	RESISTOR 68.0 OHM 1/4W FIXED COMPOSITION	2	\$1.00
68.0-W-3W	RESISTOR 68.0 OHM 3W WIRE WOUND	2	\$1.00
68-FC-2W	RESISTOR 68.0 OHM 68 OHM 2W FIXED COMPOSITION	3	\$1.00
0757-0855	RESISTOR 68.1K OHM HP1310A 1W FIXED COMPOSITION	3	\$0.45
680.0-FC-1/2W	RESISTOR 680 OHM 1/2W FIXED	12	\$0.10
6046	RESISTOR 680 OHM 1/4W FIXED	2	\$0.12
680.0-FC-1W	RESISTOR 680 OHM 1W FIXED	4	\$1.00
680.0-W-3W	RESISTOR 680.0 OHM 3W WIRE WOUND	6	\$0.72
680K-FC-1/2W	RESISTOR 680K OHM 1/2W FIXED COMPOSITION	12	\$1.00
680K-FC-1/4W	RESISTOR 680K OHM 1/4W FIXED COMPOSITION	4	\$0.16
680K-FC-1/8W	RESISTOR 680K OHM 1/8W FIXED COMPOSITION	10	\$0.67
680K-FC-1W	RESISTOR 680K OHM 1W FIXED COMPOSITION	12	\$1.00
680K-FC-2W	RESISTOR 680K OHM 2W FIXED COMPOSITION	8	\$1.00
844	RESISTOR 68100 OHM 1/4W 0.1% MIL-R-55185/5 68.1K	5	\$0.76
9345	RESISTOR 68K OHM 1/2W FIXED COMPOSITION	3	\$0.38
3505	RESISTOR 68K OHM 1/4W FIXED COMPOSITION	19	\$0.12
68K-FC-1/8W	RESISTOR 68K OHM 1/8W FIXED COMPOSITION	5	\$0.33
68K-FC-1W	RESISTOR 68K OHM 1W FIXED COMPOSITION	13	\$1.00
68K-FP-1W	RESISTOR 68K OHM 1W FLAMEPROOF	15	\$1.00
68.0-FC-2W	RESISTOR 68K OHM 2W FIXED COMPOSITION	7	\$1.00
68K-FP-2W	RESISTOR 68K OHM 2W FLAMEPROOF METAL OXIDE 5%	7	\$0.17
69-FC-1/8W	RESISTOR 69 OHM 1/8W FIXED COMPOSITION	9	\$0.40
690-FC-1/8W	RESISTOR 690 OHM 1/8W FIXED COMPOSITION	10	\$0.65
7.5-FC-1/2W	RESISTOR 7.5 OHM 1/2W FIXED COMPOSITION	17	\$0.10
7.5-FC-1/4W	RESISTOR 7.5 OHM 1/4W FIXED COMPOSITION	10	\$0.15
7.5-FC-1W	RESISTOR 7.5 OHM 1W FIXED COMPOSITION	12	\$0.17
832-3498	RESISTOR 7.5K 1% 1/2W	96	\$0.06
1132	RESISTOR 7.5K OHM 1/4W FIXED COMPOSITION	12	\$0.14
7.5K-FP-1/4W	RESISTOR 7.5K OHM 1/4W FLAMEPROOF	22	\$1.00
7.5K-FC-1/8W	RESISTOR 7.5K OHM 1/8W FIXED COMPOSITION	3	\$0.27
7.5K-FC-1W	RESISTOR 7.5K OHM 1W FIXED COMPOSITION	16	\$1.00
7.5K-FC-2W	RESISTOR 7.5K OHM 2W FIXED COMPOSITION	8	\$1.00
7.5K-FP-2W	RESISTOR 7.5K OHM 2W FLAMEPROOF METAL OXIDE 5%	3	\$0.17
7.5M-FC-1/2W	RESISTOR 7.5M 1/2W FIXED COMPOSITION	11	\$1.00
7.5M-FC-1/4W	RESISTOR 7.5M 1/4W FIXED COMPOSITION	25	\$1.00
7.5M-FC-1W	RESISTOR 7.5M 1W FIXED COMPOSITION	10	\$1.00
7.5M-FC-2W	RESISTOR 7.5M 2W FIXED COMPOSITION	4	\$1.00
75.0-FP-1/2W	RESISTOR 75 OHM 1/2W FLAMEPROOF	9	\$0.30
75.0-MF-1/2W	RESISTOR 75 OHM 1/2W METAL FILM	15	\$1.00
75.0-FC-1/4W	RESISTOR 75 OHM 1/4W FIXED COMPOSITION	12	\$1.00
75.0-FC-1W	RESISTOR 75 OHM 1W FIXED COMPOSITION	9	\$1.00
75.0-FC-2W	RESISTOR 75 OHM 2W FIXED COMPOSITION	4	\$1.00
75-FP-2W	RESISTOR 75 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
75.0-FC-1/2W	RESISTOR 75.0 OHM 1/2W FIXED COMPOSITION	10	\$1.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
750.0-FC-1/2W	RESISTOR 750 OHM 1/2W FIXED	8	\$0.10
6696	RESISTOR 750 OHM 1/4W FIXED	21	\$0.16
750.0-FC-1W	RESISTOR 750 OHM 1W FIXED	11	\$1.00
750.0-FC-2W	RESISTOR 750 OHM 2W FIXED	5	\$1.00
750K-FC-1/2W	RESISTOR 750K OHM 1/2W FIXED COMPOSITION	9	\$1.00
750K-FC-1/4W	RESISTOR 750K OHM 1/4W FIXED COMPOSITION	21	\$1.00
750K-FC-1/8W	RESISTOR 750K OHM 1/8W FIXED COMPOSITION	8	\$0.62
750K-FC-1W	RESISTOR 750K OHM 1W FIXED COMPOSITION	10	\$1.00
750K-FC-2W	RESISTOR 750K OHM 2W FIXED COMPOSITION	6	\$1.00
75K-FC-1/2W	RESISTOR 75K OHM 1/2W FIXED COMPOSITION	4	\$0.25
9938	RESISTOR 75K OHM 1/4W FIXED COMPOSITION	14	\$0.10
75K-FC-1W	RESISTOR 75K OHM 1W FIXED COMPOSITION	16	\$1.00
75K-FC-2W	RESISTOR 75K OHM 2W FIXED COMPOSITION	7	\$1.00
76-FC-1/8W	RESISTOR 76 OHM 1/8W FIXED COMPOSITION	8	\$0.40
760-FC-1/8W	RESISTOR 760 OHM 1/8W FIXED COMPOSITION	9	\$0.74
76K-FC-1/8W	RESISTOR 76K OHM 1/8W FIXED COMPOSITION	7	\$0.33
8.2-FC-1/2W	RESISTOR 8.2 OHM 1/2W FIXED COMPOSITION	21	\$10.00
8.2-FC-1/4W	RESISTOR 8.2 OHM 1/4W FIXED COMPOSITION	15	\$0.15
8.2-FC-1W	RESISTOR 8.2 OHM 1W FIXED COMPOSITION	3	\$0.17
8.2-FP-2W	RESISTOR 8.2 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.17
8.2K-FC-1/2W	RESISTOR 8.2K OHM 1/2W FIXED COMPOSITION	4	\$1.00
8358	RESISTOR 8.2K OHM 1/4 WATT FIXED COMPOSITION	11	\$0.11
0698-3200	RESISTOR 8.2K OHM 1/4W FLAMEPROOF	4	\$0.30
8.2K-FC-1W	RESISTOR 8.2K OHM 1W FIXED COMPOSITION	8	\$1.00
8.2K-FP-1W	RESISTOR 8.2K OHM 1W FLAMEPROOF	2	\$1.00
8.2K-FP-2W	RESISTOR 8.2K OHM 2W FLAMEPROOF METAL OXIDE 5%	5	\$0.60
8.2M-FC-1/2W	RESISTOR 8.2M 1/2W FIXED COMPOSITION	10	\$1.00
8.2M-FC-1/4W	RESISTOR 8.2M 1/4W FIXED COMPOSITION	28	\$1.00
8.2M-FC-1W	RESISTOR 8.2M 1W FIXED COMPOSITION	10	\$1.00
8.2M-FC-2W	RESISTOR 8.2M 2W FIXED COMPOSITION	7	\$1.00
82.0-FC-1/2W	RESISTOR 82 OHM 1/2W FLAMEPROOF	4	\$0.20
8363	RESISTOR 82 OHM 1/4W FIXED COMPOSITION	5	\$0.13
82.0-FC-1W	RESISTOR 82 OHM 1W FIXED COMPOSITION	10	\$1.00
82.0-FC-2W	RESISTOR 82 OHM 2W FIXED COMPOSITION	5	\$1.00
82-FP-2W	RESISTOR 82 OHM 2W FLAMEPROOF METAL OXIDE 5%	4	\$0.60
82.0-W-3W	RESISTOR 82.0 OHM 3W WIRE WOUND	7	\$1.00
820-FC-1/2W	RESISTOR 820 OHM 1/2W FIXED COMPOSITION	5	\$0.10
820-FC-1W	RESISTOR 820 OHM 1W FIXED COMPOSITION	12	\$1.00
820-FC-2W	RESISTOR 820 OHM 2W FIXED COMPOSITION	17	\$1.00
820.0-W-3W	RESISTOR 820.0 OHM 3W WIRE WOUND	4	\$1.00
820K-FC-1/2W	RESISTOR 820K OHM 1/2W FIXED COMPOSITION	9	\$1.00
8768	RESISTOR 820K OHM 1/4W FIXED COMPOSITION	2	\$0.23
820K-FC-1/4W	RESISTOR 820K OHM 1/4W FIXED COMPOSITION	13	\$0.06
820K-FC-1W	RESISTOR 820K OHM 1W FIXED COMPOSITION	6	\$1.00
820K-FC-2W	RESISTOR 820K OHM 2W FIXED COMPOSITION	13	\$1.00
82K-FP-1/8W	RESISTOR 82K 1/8W FLAMEPROOF 2%	5	\$0.18
5489	RESISTOR 82K OHM 1/2W FIXED COMPOSITION NO LONGER AVAILABLE	10	\$0.12
6374	RESISTOR 82K OHM 1/4W FIXED COMPOSITION	11	\$0.12
82K-FC-1W	RESISTOR 82K OHM 1W FIXED COMPOSITION	5	\$0.20
82K-FC-2W	RESISTOR 82K OHM 2W FIXED COMPOSITION	2	\$1.00
832-7706	RESISTOR 84.5K 1% 1/4W	97	\$0.03
9.1-FC-1/2W	RESISTOR 9.1 OHM 1/2W FIXED COMPOSITION	12	\$0.15
9.1-FC-1/4W	RESISTOR 9.1 OHM 1/4W FIXED COMPOSITION	8	\$0.15
9.1-FC-1W	RESISTOR 9.1 OHM 1W FIXED COMPOSITION	10	\$0.17
9.1-FP-2W	RESISTOR 9.1 OHM 2W FLAMEPROOF METAL OXIDE 5%	10	\$0.17
9.1K-FC-1/2W	RESISTOR 9.1K OHM 1/2W FIXED COMPOSITION	6	\$1.00
2261	RESISTOR 9.1K OHM 1/4W FIXED COMPOSITION	18	\$0.06
9.1K-FC-1/8W	RESISTOR 9.1K OHM 1/8W FIXED COMPOSITION	9	\$0.28
9.1K-FC-1W	RESISTOR 9.1K OHM 1W FIXED COMPOSITION	9	\$1.00
9.1K-FC-2W	RESISTOR 9.1K OHM 2W FIXED COMPOSITION	14	\$1.00
9.1K-FP-2W	RESISTOR 9.1K OHM 2W FLAMEPROOF METAL OXIDE 5%	10	\$0.17
9.1M-FC-1/2W	RESISTOR 9.1M 1/2W FIXED COMPOSITION	6	\$1.00
9.1M-FC-1/4W	RESISTOR 9.1M 1/4W FIXED COMPOSITION	21	\$1.00
9.1M-FC-1W	RESISTOR 9.1M 1W FIXED COMPOSITION	10	\$1.00
9.1M-FC-2W	RESISTOR 9.1M 2W FIXED COMPOSITION	8	\$1.00
9.2K-FC-1/8W	RESISTOR 9.2K OHM 1/8W FIXED COMPOSITION	10	\$0.28
91.0-FC-1/2W	RESISTOR 91 OHM 1/2W FIXED COMPOSITION	3	\$1.00
91.0-MF-1/2W	RESISTOR 91 OHM 1/2W METAL FILM	5	\$0.12
91.0-FC-1/4W	RESISTOR 91 OHM 1/4W FIXED COMPOSITION	2	\$1.00
91-FC-1/8W	RESISTOR 91 OHM 1/8W FIXED COMPOSITION	7	\$0.40
91.0-FC-1W	RESISTOR 91 OHM 1W FIXED COMPOSITION	10	\$1.00

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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
91.0-FC-2W	RESISTOR 91 OHM 2W FIXED COMPOSITION	11	\$1.00
91-FP-2W	RESISTOR 91 OHM 2W FLAMEPROOF METAL OXIDE 5%	9	\$0.17
910-FC-1/2W	RESISTOR 910 OHM 1/2W FIXED COMPOSITION	14	\$1.00
910-FC-1/4W	RESISTOR 910 OHM 1/4W FIXED COMPOSITION	4	\$1.00
910-FC-1/8W	RESISTOR 910 OHM 1/8W FIXED COMPOSITION	9	\$0.40
910-FC-1W	RESISTOR 910 OHM 1W FIXED COMPOSITION	8	\$1.00
910-FC-2W	RESISTOR 910 OHM 2W FIXED COMPOSITION	1	\$1.00
910K-FC-1/2W	RESISTOR 910K OHM 1/2W FIXED COMPOSITION	11	\$1.00
910K-FC-1/4W	RESISTOR 910K OHM 1/4W FIXED COMPOSITION	21	\$1.00
910K-FC-1W	RESISTOR 910K OHM 1W FIXED COMPOSITION	8	\$1.00
910K-FC-2W	RESISTOR 910K OHM 2W FIXED COMPOSITION	3	\$1.00
91K-FC-1/2W	RESISTOR 91K OHM 1/2W FIXED COMPOSITION	6	\$1.00
2262	RESISTOR 91K OHM 1/4W FIXED COMPOSITION	23	\$0.13
91K-FC-1/8W	RESISTOR 91K OHM 1/8W FIXED COMPOSITION	10	\$0.34
91K-FC-1W	RESISTOR 91K OHM 1W FIXED COMPOSITION	3	\$1.00
91K-FC-2W	RESISTOR 91K OHM 2W FIXED COMPOSITION	8	\$1.00
92-FC-1/8W	RESISTOR 92 OHM 1/8W FIXED COMPOSITION	10	\$0.40
920-FC-1/8W	RESISTOR 920 OHM 1/8W FIXED COMPOSITION	10	\$0.70
920K-FC-1/8W	RESISTOR 920K OHM 1/8W FIXED COMPOSITION	10	\$0.65
970K-FC-1/8W	RESISTOR 970K OHM 1/8W FIXED COMPOSITION	10	\$0.65
076-8149	RESISTOR ASSY 47 OHM APM LASER+ 10/PKG	4	\$1.44
5061-RU4	RESISTOR BOX	1	\$150.00
5061-RU12	RESISTOR BOX .1OHM	1	\$50.00
292-2049	RESISTOR CERAMIC 4.7 OHM 5W	4	\$0.73
1POT0L5	RESISTOR COMPOSITION 1.0 OHM 1/2W 5%	44	\$1.00
08F1150.33	RESISTOR FIXED .30HM 1W 5%	49	\$1.00
13-11867-00	RESISTOR FIXED .5 OHM 3W 1%	3	\$1.68
5905-00-759-8896	RESISTOR FIXED 100K 2W 5%	10	\$0.10
4700HM	RESISTOR FIXED 10KOHM .25W 5% CF MEGALANCHE 3696	1	\$2.00
130.0-FC-1/4W	RESISTOR FIXED 130 OHM 1/4W	8	\$1.00
308-0872-00	RESISTOR FIXED 36 OHM 5W 5% FUSIBLE	4	\$0.65
3900HM 2W	RESISTOR FIXED 390 OHM 2W 5% FLAMEPROOF	5	\$0.48
4116R-001-390	RESISTOR FIXED 390HM .25W 5% DIP MEGALANCHE 3696 16DIP	1	\$2.00
1000020	RESISTOR FIXED COMPOSITION 30M OHM 5% 1/4 WATT 30 MEG	10	\$1.00
307-0344-00	RESISTOR FIXED TEK 4051	2	\$5.75
100HM1W	RESISTOR FLAMEPROOF 10 OHM 1W 2% SMU CM4531 R216	4	\$0.30
895-7170	RESISTOR METAL FILM 1% 1/2 W 47.5K OHM	88	\$0.06
4701-03-1009	RESISTOR MF 1/8W 1%	8	\$0.11
588-9	RESISTOR MOUNTING BRACKET	6	\$0.25
650-600016-002	RESISTOR NET BECK 899-3-R470	3	\$2.00
898-5-R220/330	RESISTOR NETWORK	4	\$0.88
650-600010-003	RESISTOR NETWORK	3	\$4.00
1810-0020	RESISTOR NETWORK	4	\$1.00
1810-0121	RESISTOR NETWORK	2	\$2.00
1810-0132	RESISTOR NETWORK	3	\$2.00
307-0550-01	RESISTOR NETWORK	3	\$13.00
13F171R470	RESISTOR NETWORK .47K OHM 2W DBC LB600 14DIP	2	\$0.62
899-5-R220/330	RESISTOR NETWORK 14DIP	5	\$1.15
4116R-001-RC-151	RESISTOR NETWORK 16DIP 150 OHM TERMINATOR DISK DISKETTE IBM 5150 5160	9	\$0.79
701950-001	RESISTOR NETWORK 2100 OHM	3	\$8.50
4311R-104-221/331	RESISTOR NETWORK 220/330 OHM TERMINATING 11 PIN 11P	13	\$0.76
46F4379	RESISTOR NETWORK 221 OHM/331 OHM 1.25W DISK DRIVE TERMINATOR	3	\$1.20
4308R-104-22V331	RESISTOR NETWORK 221/331 OHM 1W SIP SCSI TERMINATOR	4	\$0.81
770-101-R2K	RESISTOR NETWORK 2K OHM 10PIN	6	\$0.36
898-1-R4.7K	RESISTOR NETWORK 4.7K OHM	8	\$1.08
650-600006-001	RESISTOR NETWORK 4.7K OHM 784-1-R4.7K	3	\$2.00
68F1019	RESISTOR NETWORK 68 OHM 8-PIN SIP	2	\$0.52
650-600009-002	RESISTOR NETWORK 82 OHM	4	\$4.00
18017013	RESISTOR NETWORK R9 IN 1801 POWER RACK SYSTEM DATA CHECK	1	\$65.00
81F9205	RESISTOR NETWORK TYPE 4610X-101 10PIN 10P 10K OHM	5	\$0.47
899-1-R220	RESISTOR NW 220 OHM 4114R-002-220 14DIP	3	\$0.57
1810-0281	RESISTOR PACK	1	\$2.00
830B51	RESISTOR PACK .51 OHM 1/2W MATCHED PAIR FLAMEPROOF RCA	10	\$1.05
408A103	RESISTOR PACK 10K	5	\$1.00
408A102	RESISTOR PACK 1K	10	\$1.00
408A472	RESISTOR PACK 4.7K	8	\$1.00
408A473	RESISTOR PACK 47K	8	\$1.00
4700HMP	RESISTOR PACK MEGALANCHE 3696	1	\$2.00
323-0385-00	RESISTOR PRECISION 100K OHM 1/2W	6	\$0.25
RNC65H1003FS	RESISTOR PRECISION 100K OHM 1/2W 1% MIL-R-55182 125C	4	\$0.12
RNC65J1003BS	RESISTOR PRECISION 100K OHM 1/4W 0.1% MIL-R-55182 125C FIXED FILM	2	\$1.08



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PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
RN70B1151F	RESISTOR PRECISION 1150 OHM 1/2W 1% MIL-R-10509 125C	1	\$1.80
RN65C1210F	RESISTOR PRECISION 121 OHM 1/4W 1% MIL-R-10509 125C	2	\$1.20
RN65C1213F	RESISTOR PRECISION 121K OHM 1/4W 1% MIL-R-10509 125C	72	\$0.20
RN65C1300F	RESISTOR PRECISION 130 OHM 1/4W 1% MIL-R-10509 125C	3	\$1.20
RN60D1300F	RESISTOR PRECISION 130 OHM 1/4W 1% MIL-R-10509 70C	8	\$1.21
166P7R1	RESISTOR PRECISION 166.7 OHM 1/4W 1%	2	\$1.00
RN65C1821F	RESISTOR PRECISION 1820 OHM 1/4W 1% MIL-R-10509 125C	5	\$1.11
29MF250-182K	RESISTOR PRECISION 182K OHM 1/4W 1% MIL-R-10509 125C	3	\$0.09
200POT1	RESISTOR PRECISION 200.0 OHM 1/8W 1%	4	\$1.01
RNC65H2211FS	RESISTOR PRECISION 2210 OHM 1/4W 1% AXIAL MIL-R-55182 125C	10	\$0.20
RN65D2610F	RESISTOR PRECISION 261 OHM 1/4W 1% MIL-R-10509 125C	22	\$1.22
RN65C2741F	RESISTOR PRECISION 2740 OHM 1/4W 1% MIL-R-10509 125C	5	\$1.00
27P4KT10	RESISTOR PRECISION 27400 OHM 1/4W 0.1% TRW	4	\$1.70
RN65C3322F	RESISTOR PRECISION 33200 OHM 1/4W 1% MIL-R-10509 125C	7	\$1.30
RN65C3920F	RESISTOR PRECISION 392 OHM 1/4W 1% MIL-R-10509 125C	2	\$1.22
RN65D3922F	RESISTOR PRECISION 39200 OHM 1/4W 1% MIL-R-10509 125C	49	\$0.89
RN60D3922F	RESISTOR PRECISION 39200 OHM 1/4W 1% MIL-R-10509 70C	6	\$1.40
42P2T1	RESISTOR PRECISION 42.2 OHM 1/8W 1%	7	\$0.40
RNC65H4750FS	RESISTOR PRECISION 475 OHM 1/4W 1% MIL-R-55182 125C	3	\$1.25
RN65C4752F	RESISTOR PRECISION 47500 OHM 1/4W MIL-R-10509 125C	47	\$0.96
500POKT1	RESISTOR PRECISION 500.0K OHM 1/8W 1%	2	\$1.30
5P11KT1	RESISTOR PRECISION 5110 OHM 1/4W 1% AXIAL	1	\$1.08
RN65C56R2F	RESISTOR PRECISION 56.2 OHM 1/4W 1% MI-R-10509	2	\$0.25
RNC65H5620FS	RESISTOR PRECISION 562 OHM 1/4W 1% MIL-R-55182 125C	4	\$1.26
RNC65H5621FS	RESISTOR PRECISION 5620 OHM 1/4W 1% AXIAL MIL-R-55182 125C	1	\$1.20
RN65C5621F	RESISTOR PRECISION 5620 OHM 1/4W 1% MIL-R-10509 125C	9	\$1.49
RN65C5622F	RESISTOR PRECISION 56200 OHM 1/4W 1% MIL-R-10509	2	\$1.30
RN65C61R9F	RESISTOR PRECISION 61.9 OHM 1/4W 1% MIL-R-10509 125C	4	\$0.09
RN65C68R1F	RESISTOR PRECISION 68.1 OHM 1/4W 1% MIL-R-10509 125C	4	\$1.00
RNC65H75R0FS	RESISTOR PRECISION 75.0 OHM 1/4W 1% MIL-R-55182 125C	10	\$0.09
RN65C8250F	RESISTOR PRECISION 825 OHM 1/4W 1% MIL-R-10509 125C	4	\$0.09
RN60C8250F	RESISTOR PRECISION 825 OHM 1/8W 1% MIL-R-10509 125C	3	\$1.00
8P25KT10	RESISTOR PRECISION 8250 OHM 1/4W 1% TRW	89	\$3.60
RNC65H8252FS	RESISTOR PRECISION 82500 OHM 1/4W 1% MIL-R-55182 125C	8	\$0.90
263052-001	RESISTOR PRELOAD	1	\$10.00
10678078	RESISTOR SIP SIPP 11 PIN 11P TERMINATOR 2% 220/330 MAXTOR	4	\$2.00
12-29635-01(EX)	RESISTOR TERMINATOR EXTERNAL SCSI 3100-V	1	\$21.00
13F172	RESISTOR TYPE 4116R-001-33K RESISTOR NETWORK 33K OHM 16 PIN DIP CATALOG# 113 PAGE 238	4	\$0.80
12F9545	RESISTOR VARIABLE 100 OHM .5W KYBE MLT300/400 3299	3	\$3.50
1-011-5095	RESISTOR VARIABLE 100 OHM BALL ELEX	6	\$0.72
1-011-5435	RESISTOR VARIABLE 100K OHM BALL ELEX	11	\$1.00
1-011-5312	RESISTOR VARIABLE 10K OHM BALL ELEX	5	\$1.32
311-1460-00	RESISTOR VARIABLE 10K OHM TEK 4014/4054	2	\$4.80
3069P-1-102	RESISTOR VARIABLE 1K OHM TRIMPOT POT TRIM	3	\$1.89
1-011-5566	RESISTOR VARIABLE 2.5M OHM BALL ELEX	6	\$1.33
3345P-1-203	RESISTOR VARIABLE 20K OHM BOURNS	1	\$6.00
43P202	RESISTOR VARIABLE 2K OHM .75W 10% 43P202 SPECTROL TRIMPOT	1	\$1.60
12F168	RESISTOR VARIABLE 2K OHM TRIMMER M990 POT	1	\$1.15
311-0614-00	RESISTOR VARIABLE 30K OHM .20W TEK4014-1	2	\$6.00
311-1968-00	RESISTOR VARIABLE 5 MEG	2	\$3.00
311-1286-00	RESISTOR VARIABLE 50K OHM TEK	2	\$2.60
311-1068-00	RESISTOR VARIABLE 5K OHM 1/2W	2	\$7.00
311-0310-01	RESISTOR VARIABLE 5K OHM 20% TYPE W TEK	5	\$4.65
311-1227-00	RESISTOR VARIABLE 5K OHM TO4 TEK4631	2	\$1.30
BK5(EX)	RESISTOR VARIABLE 5K SLA HRZ100 BRIGHTNESS	1	\$20.00
1-237-344-11SON	RESISTOR VARIABLE CONVERGENCE	2	\$5.00
5107-010-00861	RESISTOR VARIABLE EXTERNAL BRIGHTNESS SUN	1	\$30.00
311-1934-00	RESISTOR VARIABLE -NONWW 2K	1	\$2.00
311-1933-00	RESISTOR VAR-NONWW 5 MEG	3	\$5.00
40299001	RESISTOR WIRE 10 OHM 2W 10%	1	\$2.97
RW69V3R9	RESISTOR WIRE WOUN 3.9 OHM 3W 5% MIL-R-26	5	\$0.85
VC10F.33	RESISTOR WIRE WOUND .33 OHM 10W 5%	7	\$1.85
10	RESISTOR WIRE WOUND 10.0 OHM 3W 5% MIL-R-26 RW69V100	13	\$0.43
3019	RESISTOR WIRE WOUND 12.0 OHM 3W 5% MIL-R-26 RW69V120	4	\$0.34
RW69V150	RESISTOR WIRE WOUND 15.0 OHM 3W 5% MIL-R-26	2	\$1.00
RW69V180	RESISTOR WIRE WOUND 18.0 OHM 3W 5% MIL-R-26	4	\$1.02
RW69V2R7	RESISTOR WIRE WOUND 2.7 OHM 3W 5% MIL-R-26	7	\$0.80
22POT5	RESISTOR WIRE WOUND 22.0 OHM 3W 5%	3	\$0.72
7139	RESISTOR WIRE WOUND 3.3 OHM 3W 5% MIL-R-26 RW69V3R3	6	\$0.47
3218	RESISTOR WIRE WOUND 4.7 OHM 3W 5% MIL-R-26 RW69V4R7	1	\$0.33
RW69V5R6	RESISTOR WIRE WOUND 5.6 OHM 3W 5% MIL-R-26	7	\$0.87

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
25W50HM	RESISTOR WIRE WOUND 50 OHM 25W 5%	1	\$1.00
4151	RESISTOR WIRE WOUND 6.8 OHM 3W 5% MIL-R-26 RW69V6R8 NO LONGER AVAILABLE	2	\$0.31
95597957	RESISTOR WIRE WOUND.5 OHM 15W 1%	2	\$4.00
8224	RESISTOR WIREWOUND 2 OHM 10W	1	\$0.80
308-0539-00	RESISTOR WIREWOUND 2.25K OHM .5% 3W REF R916	5	\$1.25
DFP-20-039	RESISTOR WIREWOUND 20 OHMS +/- 3% 30 WATTS R7	1	\$12.00
833047	RESISTOR WIREWOUND 47 OHM 5W 5%	5	\$0.60
550-3640-13-03	RESISTORS	15	\$0.10
1200-0845	RETAINER	3	\$2.00
801511-006	RETAINER	4	\$2.00
801512-009	RETAINER	4	\$2.00
800711-062	RETAINER	5	\$2.00
801511-004	RETAINER	5	\$2.00
0228-001-002	RETAINER	35	\$2.00
103069-001	RETAINER ANTI-ROTATION	1	\$3.00
0510-0015	RETAINER RING	4	\$0.08
3970389	RETAINING RING NEFF CONNECTOR SCREW	10	\$1.00
3000-006	RIBBON PRINTER BLACK AND RED	2	\$20.00
7342	RIBBON PRINTER NEY NEC P6 P2	2	\$12.00
LC7211RIBBONZ9HD	RIBBON STAR LC-7211	3	\$5.50
770-5326	RIBBON ASSY. RIBBON CASSETTE	2	\$12.00
6419	RIBBON CARTRIDGE EPSON FX1050 FX286E FX-286E	3	\$6.55
105377-901	RIBBON DECK ASSY OLD TYPE	1	\$400.00
MX-70/80	RIBBON EPSON EPA CITIZEN MSP-10 PRINTER FX80 FX800 FX850 FX28 6E	1	\$4.80
076-0156	RIBBON GUARD	1	\$16.00
29-24273-00	RIBBON GUIDE ASSEMBLY	10	\$0.78
106700-001	RIBBON LEFT ASSEMBLY	1	\$10.00
80-83A	RIBBON OKIDATA OKI 80 82 83 92 93 MICROLINE ML80 82 92	2	\$4.30
C2282	RIBBON PRINTER FUJITSU FUJ DX2100 DX2200 BLACK ORDER QTY.PER BOX/2 EA.IN BOX/ISSUED EACH FROM S	0	\$8.60
52102001	RIBBON PRINTER OKI 192	3	\$2.14
106700-002	RIBBON RIGHT ASSEMBLY	1	\$10.00
118-9492-00	RIBBON TENSION PAD	2	\$2.00
852	RIBBON TYPEWRITER	4	\$5.60
B9538WZ	RJC BOARD ASS'Y	2	\$37.75
1531-0019	ROD	1	\$4.00
1531-0022	ROD	1	\$9.00
1531-0219	ROD SLIDER	2	\$9.00
00085-600554	ROLL INSERT	4	\$3.00
44126G1	ROLLER PAPER MOTION SENSOR	2	\$66.34
118-6770-00	ROLLER PICKUP	2	\$20.00
07475-40030	ROLLER PINCH	2	\$6.50
118-6807-01	ROLLER BAIL ROLLER UNIT	2	\$41.00
401-0255-03	ROLLER BELT IDLER TEK 4631	1	\$26.00
401-0235-04	ROLLER BELT TEK 4631	1	\$23.00
RA1-0977-000CN	ROLLER CASSETTE FEED HPC 2686	1	\$22.50
RA1-3976-000CN	ROLLER EXIT HPC APM FUSER	7	\$4.25
54472726	ROLLER FEED RIA LP4080 DEC LN03 29-25102-00	2	\$36.00
160104-400	ROLLER GUIDE CIPHER M990	1	\$39.00
947-0007	ROLLER HOT FUSER UPPER APM LASER 2 HPC 33440A Part of Kit FP1	8	\$6.83
RG5-0682-000CN	ROLLER LOWER DELIVERY HPC 2003 LASERJET4	4	\$4.60
135-745042-001A	ROLLER NIF LC890 HOPPER FEED ROLLER LEFT SIDE	3	\$10.92
135-745042-002A	ROLLER NIF LC890 HOPPER FEED ROLLER RIGHT SIDE	3	\$10.92
135-739371-A	ROLLER NIF LC890 MANUAL FEED ROLLER	2	\$13.16
135-739253-A	ROLLER NIF LC890 SECOND LOWER ROLLER	1	\$17.28
401-0232-01	ROLLER PAPER DRIVE TEK 4631	2	\$95.00
214-1742-01	ROLLER PAPER DRIVER	2	\$20.00
214-1451-00	ROLLER PAPER DRIVER	2	\$40.00
A3CYF	ROLLER PAPER GUIDE FROM TEK KIT 118-8624-00 PHASER	1	\$25.00
A3BYT	ROLLER PAPER GUIDE TEK PHASER FROM TEK KIT 118-8624-00	1	\$35.00
970-1011	ROLLER PAPER PICKUP APM LASER HALF CAM CASSETTE ORDER IN MULTIPLIES OF 3 EA.	4	\$6.30
RB1-3029-000CN	ROLLER PAPER PICKUP HPC 2003 LASERJET4	1	\$4.80
214-1939-01	ROLLER PAPER TEK 4631	1	\$22.00
214-1940-03	ROLLER PAPER TEK 4631	2	\$50.00
959-0023	ROLLER PICKUP APM LASER2	2	\$12.60
54472723	ROLLER PREFEED RIA LP4080 DEC LN03 29-25103-00	2	\$6.00
FB1-0242-000CN	ROLLER PRESSURE APM LASER2 FUSER PART of Kit FP1	8	\$13.34
401-0280-00	ROLLER PRESSURE TEK 4631	1	\$24.00
401-0661-01	ROLLER PULLEY TEK 4698	1	\$18.00
251704-005	ROLLER RIBBON KIT LP25/26 B1000 B300/600	2	\$35.00
970-1136	ROLLER RUBBER DELIVERY EXIT USE WITH 661-0450 FUSER	3	\$8.10
135-745046-A	ROLLER SECOND UPPER	3	\$16.61

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
54472693	ROLLER SEPERATION W/O CLUTCH ASSY RIA LP4080 DEC LN03 29-25104-00	5	\$10.75
214-1939-01	ROLLER TEK PAPER	1	\$1,000.00
RF5-0349	ROLLER TRANSFER	3	\$11.80
09122-15513	ROM	1	\$32.00
1818-1658	ROM	1	\$8.00
122097-00	ROM	1	\$10.00
1818-2810	ROM	1	\$10.00
122098-00	ROM	2	\$10.00
00085-60952	ROM	1	\$50.00
1818-0827B	ROM	1	\$62.00
1818-3114A	ROM	1	\$80.00
160-1843-08	ROM	2	\$105.00
160-1844-08	ROM	2	\$105.00
160-2047-06	ROM	1	\$150.00
160-2048-06	ROM	1	\$150.00
1818-2805	ROM	1	\$180.00
1818-2804	ROM	2	\$180.00
1818-2801	ROM	1	\$185.00
1818-2802	ROM	1	\$185.00
1818-2803	ROM	1	\$185.00
1818-2806	ROM	1	\$185.00
1818-2807	ROM	1	\$185.00
1818-2808	ROM	1	\$185.00
1818-2809	ROM	1	\$185.00
1818-2800	ROM	2	\$185.00
160-2018-06	ROM	1	\$400.00
160-2019-06	ROM	1	\$400.00
1818-1502	ROM 64K	1	\$31.00
1818-1506	ROM 64K	1	\$131.00
VD2303	ROM 64X4 WORDS PRE-PROGRAMMED 24DIP	1	\$67.62
23-17E2-00	ROM BOOT	2	\$25.00
050-1556-02	ROM CHARACTER GEN	1	\$95.00
23-61E2-00	ROM DEC VT100 TERM	2	\$20.00
11289B(EX)	ROM HPC ADVANCED PROGRAM II	1	\$100.00
11271B(EX)	ROM HPC PLOTTER CONTROL	1	\$100.00
PS-115	ROM INITIALIZATION/DIAGNOSTIC ROM CARDKEY D620 CKS	1	\$135.00
1818-3377	ROM MAGIC	1	\$33.00
1818-3378	ROM MAGIC	1	\$33.00
1818-3321	ROM MAGIC 1	3	\$31.00
1818-3322	ROM MAGIC 2	2	\$31.00
1818-3323	ROM MAGIC 3	2	\$31.00
1818-3324	ROM MAGIC 4	3	\$31.00
1818-3325	ROM MAGIC 5	3	\$31.00
GO235	ROM SET	1	\$35.00
1818-0830C	ROM SET LPU	1	\$62.00
23-33E2-00	ROM VT100 BASIC VIDEO DEC	2	\$20.00
401-0399-01	ROTOR TEK INTERRUPT	1	\$350.00
09826-67910	RPG CURSOR CONT ASSY HP9826	1	\$130.00
IC155A	RS-485 REPEATER CARDKEY CKS	1	\$150.00
613-03917	RTD -50 DEG.C TO 500 DEG.C LOWER OVER PRT	4	\$70.00
8040-877-9872	RTV PSI-601 SILICONE SEALANT SL RTV SMALL TUBE	1	\$2.41
842	RUBBER BANDS RUBBER BAND SIZE 33 3-1/2 X 1/8 ORDER PER BOX = 1/4LB. ISSUED PER BOX FROM WYLE	2	\$0.89
8040-291-8625	RUBBER CEMENT 4 OZ. JAR	2	\$1.19
82-132B-1	RUBBER TIRES (IBM)	2	\$2.85
1572318384	RUNNING MICROSOFT WINDOWS 2000 PROFESSIONAL	1	\$31.99
1D814	SAFETY HARNESS WYLE PROPERTY #104549 AND 104550	2	\$100.00
RG1-1771	SCANNER ASSEMBLY PS410	2	\$54.95
938-0005	SCANNER LAMP	1	\$23.00
RG0-0050	SCANNER LASER ASSY LASER SCANNER LASER/SCANNER LASER2	5	\$99.00
661-0278	SCANNER UNIT LASERWRITER 300 DPI	1	\$300.00
8-RG0-0018-020	SCANNER UNIT QMS PSJET+	2	\$505.26
9199	SCISSORS SHEARS	3	\$4.75
PROBES	SCOPE PROBE 5710/11	8	\$30.00
SS-0012A	SCOPE PROBE DS-6121A	1	\$20.00
2N5062	SCR	2	\$1.12
2N3896	SCR	2	\$9.63
MCR649AP-3	SCR MOTOROLA	1	\$9.80
2N4172	SCR 2N4172 400V 8A	2	\$14.37
SK3956	SCR 600V 4A	1	\$3.08
E0102YA	SCR HS Q10	4	\$4.00
S7310M	SCR SWITCHING	2	\$25.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
212-0154-00	SCREW MACHINE: 8-32 X 1.25	5	\$0.45
10/32-2IN	SCREW 10/32 2 INCH	90	\$0.07
94613A110	SCREW 4-40X.5 INCH COARSE THREAD NYLON MACHINE SCREW	83	\$0.05
211-0627-00	SCREW CAP TEK4692	5	\$0.40
812810010	SCREW CAPTIVE SCREW	2	\$4.88
4090154	SCREW CAPTIVE SCREW NEFF CONNECTOR	10	\$1.50
1390-0360	SCREW LOCK	4	\$3.00
C3318	SCREW SET FLT TM ADG DATA PRINTER	1	\$3.50
211-0128-01	SCREW TEK MACHINE SPECIAL HEAD STEEL	5	\$0.45
29F752	SCREW TERMINAL STRIP BARRIER BLOCK TYPE 5-140-Y	2	\$2.60
91185A441	SCREW THUMB SCREW KNOB KNURLED RUSKA	71	\$0.38
EMCAL 36/4	SCREWDRIVER ROTOTORQ	1	\$3.00
5935-01-179-3497	SCREWLOCK ASSEMBLY SHIELD 9P 25P CONNECTOR 1 RETAINER 1 SCREW = 1 ISSUE	8	\$0.12
5935-01-052-9436	SCREWLOCK ASSY CONNECTOR FEMALE STANDOFF 4 TELEDYNE	2	\$0.23
900233360	SCSI PADDLE CARD NEFF 620500	1	\$238.60
16F3036	SCSI-2 TO SCSI-3 CABLE 3 FT	1	\$41.50
NI-4-VCR-2	SEAL	60	\$1.05
AP50C-4	SEAL COPPER SEAL ORDER 500	228	\$0.56
1213-0033	SEAL FRONT PACE	2	\$4.40
1213-0001	SEAL REAR PACE	2	\$4.30
1401D	SEAL SHAFT	1	\$44.10
1401E	SEAL SHAFT	2	\$44.10
PS-640	SEALED LEAD-ACID BATTERY 6 VOLTS @ 4.5 AMPS WITH TYPE F1 TERMINALS. MANUFACTURED BY POWER SC	2	\$13.20
46573	SELF-LAMINATING TAGS	23	\$1.51
152-0475-00	SEMI DEV TEK TERM	2	\$4.60
152-0536-00	SEMICONV DEVICE SILICON HOT CARRIER 4V	1	\$1.10
CA3039	SEMICONDUCTOR DEVICE DIOD ARRAY	5	\$2.70
960771-001	SENSOR	1	\$15.00
160101-010	SENSOR	1	\$17.00
140721-1	SENSOR AIR PRESSURE PTX P9012 NEW STYLE	1	\$64.00
PCRC-11	SENSOR ELEMENT HUMIDITY	2	\$95.00
6179-N	SENSOR INFRARED 24V AC/DC SENTROL	3	\$59.95
1990-0672	SENSOR OPTICAL PAPER OUT	1	\$10.50
53535162	SENSOR PAPER EXIT	1	\$4.75
102690-901	SENSOR PAPER MOVEMENT	3	\$17.00
5061-4313	SENSOR PHOTO HP 2225A HOME	2	\$15.00
102057-001	SENSOR PMS PYX P600 P9012	2	\$12.48
F315060000	SENSOR PTS	2	\$13.00
87F6454	SENSOR REFLECTIVE	1	\$3.63
OPB710	SENSOR REFLECTIVE OBJECT 150UA @ 5.0V & 40MA	1	\$5.98
29-25379-00	SENSOR REGISTRATION	2	\$27.00
G0005598	SENSOR REGISTRATION RIA DEQ LP4081 LNO3+ 29-26078-00	1	\$17.00
RG1-0719	SENSOR THERMAL LASER APM HPC 33440 LASER2	3	\$22.69
G00016413	SENSOR TONER OVERFLOW DEQ LNO3 LNO3+	3	\$15.15
SR-AR435	SENTROL RANGE-CONTROLLED RADAR MOTION SENSOR / PIR	1	\$43.25
135-739907-A	SEPARATER ROLLER	1	\$22.24
Y440011001	SEPARATOR PAPER	2	\$15.00
8-RG1-0194-000	SEPERATION FEEDER UNIT QMS PSJET+	2	\$14.03
GC10-304	SERVICE CEMENT RADIO TV	7	\$3.50
K309	SERVICE KIT	4	\$12.80
K294A	SERVICE KIT FOR DAA	6	\$14.30
GC10-320	SERVICE SOLVENT RADIO TV 16OZ.SIZE BOTTLE	2	\$5.43
70-15388-00(EX)	SERVO MOTOR ASSY. DEQ LA120	1	\$147.00
LD-519393-1	SHAFT ASSEMBLY FOR FDV SENSOR CALL GUILLO GONZALES 864-9633	15	\$750.00
384-0991-00	SHAFT EXTENSION TEK 4111 TEK4109	1	\$1.85
RA1-3944	SHAFT FUSER GEAR	2	\$5.00
1531-0021	SHAFT IDLE ROLLER	1	\$5.00
102731-001	SHAFT LOWER ASSY CNTCW	1	\$19.00
1530-2154 CD5	SHAFT RUBBER DR AY	1	\$16.00
1530-2154	SHAFT RUBBER DR HP2621P	1	\$17.00
C05680-0001	SHAFT SEAL	1	\$285.00
6143	SHAFT SEAL OIL VACUUM PUMP OIL SEAL 8915A WELCH TECHNOLOGY	3	\$3.97
83645	SHAFT SEAL VARIAN ALCATEL	6	\$10.30
41-2068	SHAFT SEAL WELCH 8814A VACUUM PUMP	1	\$39.85
74-26805-01	SHAFT TILT DEC VR201	9	\$4.00
102095-001	SHAFT TRACTOR SUPPORT	1	\$10.00
A13X20-2	SHAWMUT SEMICONDUCTOR FUSE 20 AMP VERY FAST BLOW 20A 130V TYPE 2	0	\$10.76
53531097	SHEILD PLATE DRIVE ASSEMBLY R1A LP4080 DEC LNO3+	2	\$2.50
DB-24659	SHIELD 25P CONNECTOR	5	\$1.39
DE-24657	SHIELD 9P CONNECTOR	5	\$2.71
DA15CGY	SHIELD BACK SHIELD CASE 15P VGA FOR DA15P	9	\$0.61

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
805-0217	SHIELD DISK DRIVE 800K SHIPPING FIXTURE	3	\$6.00
805-5070	SHIELD EMI FENCE	1	\$1.00
337-1981-01(EX)	SHIELD IMPLOSION	1	\$95.00
805-0577	SHIELD RFI SHROUD	2	\$4.00
805-5060	SHIELD RFI SHROUD	2	\$6.00
46597	SHIELD RIBBON	4	\$3.00
337-1981-01	SHIELD TEK CRT 4014 IMPLOSION	1	\$820.00
LFE:NS-3602-0100	SHIELDED PANEL METER MODEL 7045 50-0-50 MICROAMPERES DC TAUT BAND MOVEMENT SIDE LOADED M	1	\$100.00
201032-002	SHIM	10	\$1.00
101564-001	SHIM COUNTERWEIGHT SPRING GUIDE	2	\$1.00
103422-001	SHIM PTX SHUTTLE ASSEMBLY P600	5	\$1.04
3CL76CD	SHIPPING LABELS (500 PER BOX)	2	\$34.18
11345	SHIPPING TAGS RED 4 3/8 X 2 3/8 TAG	680	\$0.04
30687669-002	SHORTING BAR SHORT	10	\$3.50
401215401	SHOULDER SCREW	9	\$0.10
8217	SHRINK TUBING 3/32" INSULATION SLEEVING ELECTRICAL 4'LENGTHS	6	\$0.56
37N398	SHRINK TUBING 3/64 TYPE FPS-003 BLACK UNIT OF PURCHASE IS 1 BOX OF 25 PIECES.	10	\$1.40
4707	SHRINK TUBING 1/16" INSULATION SLEEVING ELECTRICAL 4' LENGTHS	4	\$0.55
4712	SHRINK TUBING 1/2" INSULATION SLEEVING ELECTRICAL	1	\$1.26
4710	SHRINK TUBING 1/4" INSULATION SLEEVING ELECTRICAL	20	\$2.75
4708	SHRINK TUBING 1/8"INSULATION SLEEVING ELECTRICAL	9	\$1.01
STT221	SHRINK TUBING 1-1/2" INSULATION SLEEVING ELECTRICAL 4 FT.LENGTHTS BLACK	3	\$12.32
4709	SHRINK TUBING 3/16" INSULATION SLEEVING ELECTRICAL	6	\$0.83
4711	SHRINK TUBING 3/8" INSLUATION SLEEVING ELECTRICAL	3	\$1.05
760102-575	SHUTTER CAP	1	\$12.00
46F6040	SHV BULHEAD RECEPTACLE 1704-1 HV RG59 COAXIAL	2	\$6.89
46F6039	SHV PLUG K-GRIP JR 1705-1 RG59 HV COAXIAL	1	\$11.60
D40N4	SILICON HIGH POWER TRANSISTOR NPN TO-202 CASE	2	\$2.86
TYPE DHAI	SILVER CHLORIDE BATTERY BLASTING GALVO	1	\$10.00
1MBX9-70	SIMM 1 MB X 9 70NS MEMORY MODULE 1MB 30PIN 30P	12	\$19.00
4X32-60	SIMM 16MB 60NS 72P 72PIN 72 PIN	10	\$43.00
1MBX32	SIMM 1X32 70NS 4MEG 72PIN	1	\$145.00
449761	SIMM 1X32 70NS 4MEG 72PIN SIMM 4MB 72P	7	\$8.20
1MB(EX)	SIMM 256K APM APPLE LASER2 NTX	3	\$40.00
1MB	SIMM 256K APM LASER2 NTX	8	\$149.00
4X9-70	SIMM 4MB 70NS 30PIN	11	\$16.00
4MBX8	SIMM 4MB APM APPLE 80NS 8-BIT WILL NOT WORK IN ACCELERATED MACHINES	5	\$38.00
R-8X64PC100	SIMM 64MB 8NS 125MHZ MEMORY	1	\$27.14
8MBX8-60NS	SIMM 8MBX8 2X36	1	\$315.00
2X32	SIMM 8MEG 72PIN 72P 2X32 NON EDO	4	\$14.50
1MBX8-100NS(EX)	SIMM APM APPLE 1MB 100NS MAC2	1	\$40.00
661-0520	SIMM APM MAC2 CX CI 1MB 80NS 1X8 2 CHIPS	37	\$37.00
1MBX8-80NS	SIMM APM MAC2FX 1MB 64PIN 64 PIN 64P	12	\$43.00
M32/8	SIMM MEMORY 72P 72PIN 8MB POWERMAC APM APPLE 7100	1	\$300.00
661-0402	SIMM RAM 120NS 256K MAC	65	\$30.00
661-0494	SIMM RAM 150NS 256K	75	\$160.00
6450604	SIMM RAM 2MB 8570 90X8625 72P 16 OR 20 MHZ SYSTEM BOARD ONLY	2	\$89.00
501-1697	SIMM SIMMS SUN SNM 1MEG 80NS	4	\$55.00
SN914-SZR	SINGLE ZONE RECEIVER WITH RELAY SPREADNET WIRELESS	2	\$101.50
29C4480	SIPNP TRANSISTOR QUAD GERNAL PURPOSE	6	\$3.30
1MEGX9	SIPP 1MEGX9 80NS 70NS	4	\$37.00
260P-1/4	SLEEVE POLYFLO 1/4	53	\$0.08
102348-3	SLEEVES AMP CONNECTOR	276	\$0.36
4170-1271	SLIDE	3	\$29.45
5080-3605	SLIDE WIRE CLEANER	51	\$0.30
STI-E/LC1	SMART TERMINAL INTERFACE	1	\$429.00
81F010	SNAP-ON PANEL MOUNT ADAPTERS	5	\$3.51
1200-0981	SOCKET	1	\$12.00
512-7241	SOCKET SIMM LOW PROFILE 30 PIN	6	\$2.85
65F1874	SOCKET TRANSISTOR TO3	5	\$2.96
353-1201	SOCKET TUBE CRT	1	\$17.50
518-AG12D	SOCKET 14F3305 18PIN DIP 500 SERIES	2	\$1.49
522-AG12D	SOCKET 14F3307 22PIN DIP 500 SERIES	3	\$2.00
524-AG13D	SOCKET 14F3309 24PIN DIP 500 SERIES	7	\$1.97
44F7975	SOCKET 18P IC	17	\$1.01
50F2290	SOCKET 20 PIN PLCC SOCKET SURFACE MOUNT	2	\$3.74
C932402	SOCKET 24P LOW PRO DIP	10	\$0.26
C934002	SOCKET 40P 5935-01-190-8074	2	\$1.33
515-7299	SOCKET 52PIN 52P	3	\$2.96
9782220	SOCKET 68P REFF 5157300	2	\$3.10
515-7305	SOCKET 84PIN 84P	1	\$3.57

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
89F2097	SOCKET HOUSING - MR SERIES - 9 MATRIX	3	\$0.68
16DIP	SOCKET IC 16P	12	\$0.45
D1LB16P11	SOCKET IC 16P LOW PROFILE MALLORY DELETE AT ZERO BALANCE EXIST IN STCOCK AS PN 16DIP	10	\$0.55
20DIP	SOCKET IC 20DIP PLUG-IN	7	\$0.63
5935-01077-9377	SOCKET IC 24P DIP MEGALANCHE 3696	1	\$1.00
A409	SOCKET IC 28P MACHINE TYPE LOW PROFILE	3	\$3.18
ED2004	SOCKET IC 68 PIN PIN GRID	5	\$5.02
8ICS	SOCKET IC 8P CAN	5	\$1.08
8DIP	SOCKET IC 8P DIP 8PIN	6	\$0.32
DS1213C	SOCKET INTELLIGENT 28 PIN DIP BATTERY BACKUP FOR NOVDRAM MEMORY	2	\$20.92
35055-1	SOCKET NEK NCD19B .060-.130" MATE-N-LOK 20-14 AWG FEMALE PIN	170	\$0.10
136-0328-03	SOCKET PIN TERM:HORIZ SQ PIN RCPT	20	\$0.35
5935-00-811-7190	SOCKET PLUG-IN TRANSISTOR	2	\$3.25
S-1	SOCKET POWER SUPPLY MOUNT	5	\$14.95
822061-2	SOCKET SIMM 30P 30PIN VERTICAL MOUNT METAL LATCH	9	\$1.18
905-3090	SOCKET TERMINAL STRIPS 20P	6	\$1.38
821830-2	SOCKET VERTICAL MOUNT 30P 30PIN SIMM DUAL ROW DOUBLE ROW	11	\$5.25
3480216	SOCKET-PCB SOCKET PCB MIN-SPRING ANTISTATIC MINI-SPING	190	\$0.16
821997-3	SOCKETS SIMM	18	\$3.70
FGL2K000RTUS	SOFTWARE LAPLINK 2000 FOR WINDOWS ON CD (W/PARALLEL AND SERIAL CABLES AND BONUS LAPLINK F	1	\$144.00
DRIVECOPY	SOFTWARE DIAGNOSTICS DRIVECOPY	1	\$29.00
TSDIAGS	SOFTWARE DIAGNOSTICS TROUBLESHOOTER	1	\$269.00
TSDIAGS1	SOFTWARE DIAGNOSTICS TROUBLESHOOTER	1	\$269.00
FIRSTAID98	SOFTWARE FIRST AID 98	1	\$38.00
MCAFEE	SOFTWARE MCAFEE VIRUS SCAN	1	\$50.00
DOS 6.22	SOFTWARE MSDOS 6.22	1	\$50.00
DOS 6.22(2)	SOFTWARE MS-DOS 6.22	1	\$50.00
NORTON	SOFTWARE NORTON UTILITY VERSION 3.0 ANTI-VIRUS	1	\$90.00
EZ DRIVE	SOFTWARE WDC EIDE OVERLAY	2	\$10.00
WIN95U	SOFTWARE WINDOWS 95 UPGRADE CD INTERNET EXPLORER 4.0	1	\$88.00
3439-01-297-1836	SOLDER .022 SN63 FLUX 44 CORE 66 KESTER	2	\$10.52
3439-707-2457	SOLDER 1/16	5	\$5.15
214-0210-00	SOLDER DELETE AT ZERO BALANCE - NO LONGER AVAILABLE F/VENDOR	1	\$8.25
3439-892-4408	SOLDER TIN/ALLOY 1/32	3	\$4.52
5012	SOLDER WICK SIZE 2 THINNER SIZE THIN	4	\$2.95
10-5L	SOLDER WICK THICK SIZE .100" WIDTH	3	\$2.95
1237S	SOLDERING IRON HEATER ELEMENT 33 WATT USED WITH UNGAR 7770 OR 7760	3	\$23.97
4037S	SOLDERING IRON HEATER ELEMENT 45 WATT USED WITH UNGAR 7770 OR 7760	2	\$22.87
PL151	SOLDERING IRON TIP CHISEL .25" IRON CLAD USE WITH UNGAR 7770 OR 7760	5	\$4.65
PL114	SOLDERING IRON TIP MICRO CHISEL .25" IRON CLAD USE WITH UNGAR 7770 OR 7760	5	\$5.09
07475-60015	SOLENOID	1	\$2.00
RH7-5031	SOLENOID REGISTRATION	2	\$10.60
118-2877-00	SOLENOID ASSY	1	\$140.00
970-1032	SOLENOID CASSETTE 24VDC	1	\$8.10
076-0122-003	SOLENOID CKS STRIKE 24VDC	2	\$35.75
83292733	SOLENOID DC 24V DOOR UM-LOCK	1	\$25.00
W040	SOLENOID DRIVER	1	\$37.00
70-15343-00	SOLENOID PRINT DEC LA120	4	\$36.00
354-0394-00	SOLENOID RING CLIP	1	\$5.00
531305	SOLENOID SOL AY-SHUTTER	1	\$70.31
119-0504-00	SOLENOID STRIPPER TEK 4692	1	\$45.00
176-031	SOLENOID VALVE WITH GASKET PLATE	1	\$110.00
96F6099	SOLID STATE RELAY	0	\$30.00
GC10-312	SOLVENT SERVICE CEMENT RADIO TV 2 OZ.	2	\$2.25
DGD120P	SONY 120 METER DATA CARTRIDGE DDS2	9	\$7.00
DG90P	SONY 90 METER DATA CARTRIDGE 4MM DDS/DAT 2.0GB 2GB DAT	25	\$5.50
24259-001	SPACER NYLON	0	\$1.00
102709-002	SPACER PLATEN LEVER	1	\$1.00
00085-60925(EX)	SPEAKER	1	\$20.00
630-5503	SPEAKER 32OHM 0.5W MAC2CX	2	\$4.00
630-5222	SPEAKER 32OHM .2W MAC2	1	\$7.00
922-0055	SPEAKER APM APPLE 7100	1	\$6.30
540-1612(EX)	SPEAKER ASSY 90HM .25W	1	\$10.00
1925	SPECTRUM ANALYZER TO BE USED FOR CANNIBALIZATION	1	\$3,587.00
085-040-564	SPIDER FOR COUPLING	2	\$15.00
52553	SPIDER RUBBER COUPLING FOR ALCATEL AND VARIAN PUMPS	9	\$5.20
96F7299	SPICE KNIFE	98	\$0.27
99PS-60	SPLINE SET BRISTOL 11 PIECE XCELITE	1	\$30.00
101502-001	SPLINE SHAFT ASSEMBLY	1	\$65.00
400	SPONGE AND TRAY	2	\$8.95
4021-0001P5	SPONGE PACE	2	\$9.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
455	SPONGE REFILL	2	\$4.09
1303	SPRAY PAINT KRYLON CRYSTAL CLEAR SPRAY PAINT	2	\$2.80
1605	SPRAY PAINT KRYLON DOVE GRAY SPRAY PAINT	0	\$3.49
1602	SPRAY PAINT SO-SURE FLAT BLACK	2	\$2.00
SN930	SPREADNET WIRELESS DOOR TRANSMITTER	2	\$30.50
07595-80014	SPRING	2	\$2.80
1460-1933	SPRING	1	\$1.00
1460-1937	SPRING	1	\$1.00
1460-1940	SPRING	1	\$1.00
961709-001	SPRING	1	\$1.00
8105581	SPRING	20	\$1.00
1460-1950	SPRING	1	\$65.00
70-27510-01	SPRING CABLE ASSEMBLY FOR RA82	1	\$12.00
RS1-2244-000CN	SPRING COMPRESSION HPC 33471	1	\$0.45
303011040	SPRING PAPER HOLDER	3	\$1.00
107961-001	SPRING PRINTRONIX P9012 GAS	1	\$43.68
251704-013	SPRING + RETAINING PACK B300	1	\$52.68
103327-001	SPRING ANTI-ROTATION	1	\$2.00
257430-001	SPRING ARMATURE	1	\$5.00
310-108	SPRING CAM PIVOT ELECTRIC STRIKE CKS P3100	7	\$2.00
1460-2106	SPRING CAPPER HPC 7475A	2	\$2.00
118-8796-00	SPRING CLUTCH 4693 4694 TEK	3	\$1.00
118-6783-00	SPRING CLUTCH BOSS TEK	1	\$4.00
1460-0031	SPRING COIL	1	\$1.00
1460-0034	SPRING COIL	1	\$1.00
800279-032	SPRING COMPRESSION	1	\$2.00
1460-2043	SPRING CPRSN	1	\$1.00
1460-1333	SPRING DISK	1	\$1.00
1460-1334	SPRING DISK	1	\$1.00
53534486	SPRING EXIT COVER LOCK	1	\$1.75
1460-0068	SPRING EXTENSION	1	\$1.00
810243-013	SPRING EXTENSION	1	\$3.00
214-3502-00	SPRING FLUFF SOLEND	2	\$45.00
RS12105-000	SPRING FUSER LASER2	2	\$0.50
12-17072-00	SPRING GAS 45LBS DEC	1	\$25.00
107961-905	SPRING GAS PRINTRONIX P3240 PTS COVER STRUT 45 POUNDS	2	\$53.04
728656-00	SPRING GROUND	1	\$13.00
41-2969	SPRING HOLDER 891 5A OIL PUMP SECONDARY VANES WELCH VACUUM PUMP	2	\$9.70
118-8626-00	SPRING HOLDER KIT TEK 4694	2	\$9.00
1460-1405	SPRING LEAF	4	\$1.00
103029-001	SPRING LEAF	1	\$5.00
267352-001	SPRING PAPER GUIDE	1	\$2.00
1460-2034	SPRING PAWL HPC 7475A	3	\$1.00
1460-1931	SPRING PEN STABLE	1	\$2.00
1460-1932	SPRING PENHOLDER	1	\$2.00
DL2131	SPRING PISTON PHONE	5	\$42.00
263051-001	SPRING PIVOT ARM	1	\$2.00
256384-001	SPRING PIVOT ARM	2	\$2.00
101663-001	SPRING PLATEN	2	\$1.00
257400-001	SPRING PLUNGER	1	\$2.00
74-22440-00	SPRING RELEASE	10	\$1.00
103627-G2	SPRING RIGHT SPRING PRINTER	2	\$16.00
118-9101-00	SPRING SENSOR	1	\$5.00
214-2323-00	SPRING TEK 4631	3	\$1.00
214-3606-00	SPRING TEK OPEN ENDS	5	\$1.00
8529216	SPROCKET ASSEMBLY	3	\$8.00
246290-172	SPROCKET LT W/SEN. B300	1	\$82.91
246267-171	SPROCKET RT B300	1	\$35.94
401-0265-00	SPROCKET WHEEL 15T TEK 4631	5	\$9.50
4-40-0800	ST BALL 1/4 DIA WELCH 8814A VACUUM PUMP	2	\$0.87
07470-40010	STABLE LEFT	1	\$4.00
46N7805	STAIN RELIEF BUSHING FOR POWER CORD TYPE SRF-30 CABLE CLAMP	218	\$0.10
91732A231	STANDARD REFILL HELICOIL INSERT FOR 10-32 THREAD	6	\$0.51
0380-0643	STANDOFF	8	\$1.65
90-09313-01	STANDOFF	7	\$0.30
07470-20012	STANDOFF	1	\$75.00
076-0248	STANDOFF DUAL LOCKING APM	5	\$1.00
46400	STANDOFF INSULATOR SPACER MOUNT PC SYSTEM BD CLON XT AT 286 386 486 PCB SUPPORT NYLON	341	\$0.03
108R00053	STAPLE CARTRIDGE XEROX	14	\$17.20
6177	STAPLE REMOVER	3	\$0.39
B8	STAPLES FOR B8 STAPLER BLACK STAPLER	10	\$1.54

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
9662	STAPLES STANDARD FITS BROWN AND BEIGE STAPLERS	8	\$0.96
11X15	STATIC BAG 11X15	76	\$0.35
3X5	STATIC BAG 3X5 ZIPLOCK	34	\$0.11
16X24	STATIC BAG FLAT	50	\$0.65
8X18	STATIC BAG FLAT Order by box = 100 issue each	116	\$0.25
8X12	STATIC BAG ZIPLOCK	31	\$0.32
10X12	STATIC BAG ZIPLOCK	100	\$0.40
12X16	STATIC BAG ZIPLOCK	87	\$0.48
6X10	STATIC BAG ZIPLOCK 6X10	100	\$0.23
104934-001	STATIC ELIMINATOR POWER SUPPLY	1	\$58.00
98-0798-1129	STATIC MAT WITH GROUND CORD 3M	1	\$60.00
9070	STATIC STRAP WRIST STRAP ADJUSTABLE 6 FT. CORD AND ALLIGATOR CLIP INCLUDED	5	\$15.85
L69E92W	STATION INK JET HEAD REPAIR	1	\$50.00
25-774	STENO NOTEBOOK SPIRAL PAD	7	\$1.73
CATII-1/4	STICKER 0.25" CIRCLE 2 MIL WHITE POLYESTER WITH A 1 MIL LAMINATION BLACK ON BRIGHT ORANGE (CAT	4	\$64.00
CAT1-1/4	STICKER 0.25" CIRCLE 2 MIL WHITE POLYESTER WITH A 1 MIL LAMINATION BLACK ON MAGENTA CAT I PER	2	\$82.00
CAT I	STICKER 0.75" CIRCLE. 2 MIL WHITE POLYESTER WITH A1 MIL LAMINATION BLACK ON MAGENTA PERMANEN	4	\$70.00
CBU	STICKER CALIBRATE BEFORE USE ISSUED EACH FROM STOCK	6393	\$0.10
CAL-L	STICKER CALIBRATION LARGE ISSUED PER ROLL FROM STOCK	12	\$30.00
CNR-L	STICKER CALIBRATION NOT REQUIRED LARGE ISSUED EACH FROM STOCK	14284	\$0.10
CNR-S	STICKER CALIBRATION NOT REQUIRED SMALL ISSUED EACH FROM STOCK	14500	\$0.08
CRI	STICKER CALIBRATION RECALL INSTRUMENT ISSUED EACH FROM STOCK	11000	\$0.08
CAL-S	STICKER CALIBRATION SMALL BLUE ON SILVER SIZE 7/8" X 1/2" ISSUED PER ROLL	9	\$45.00
M5031C	STICKER CALIBRATION VOID SEALS	4	\$19.95
EXCESS-S	STICKER EXCESS BEYOND ECONOMICAL REPAIR SMALL ISSUED EACH FROM STOCK	5473	\$0.08
EXCESS-L	STICKER EXCESS BEYOND ECONOMICAL REPAIR LARGE ISSUED EACH FROM STOCK	4719	\$0.10
LUC-L	STICKER LIMITED USE CALIBRATION LARGE ISSUED EACH FROM STOCK	2075	\$0.10
LUC-S	STICKER LIMITED USE CALIBRATION SMALL ISSUED EACH FROM STOCK	4194	\$0.08
MODIFIED	STICKER MODIFIED ISSUED EACH FROM STOCK	5920	\$0.10
NRS-L	STICKER NASA REFERENCE STANDARD LARGE ISSUED EACH FROM STOCK	1620	\$0.10
NRS-S	STICKER NASA REFERENCE STANDARD SMALL ISSUED EACH FROM STOCK	1198	\$0.08
NTS-L	STICKER NASA TRANSFER STANDARD LARGE ISSUED EACH FROM STOCK	560	\$0.10
NTS-S	STICKER NASA TRANSFER STANDARD SMALL ISSUED EACH FROM STOCK	880	\$0.08
CATAGORY II	STICKER ORANGE COLORED LABELS 3/4 INCH DIAMETER SAME AS PREVIOUSLY ORDERED. PACKAGED IN 50	5	\$36.00
SERVICED-L	STICKER SERVICED LARGE ISSUED PER ROLL	5	\$78.00
SERVICED-S	STICKER SERVICED SMALL ISSUED PER ROLL FROM STOCK	19	\$41.00
WNS-L	STICKER WORKING NASA STANDARD LARGE ISSUED EACH FROM STOCK	2900	\$0.08
WNS-S	STICKER WORKING NASA STANDARD SMALL ISSUED EACH FROM STOCK	3640	\$0.08
C3323	STOP COMB ASSY DATA PRINTER	1	\$21.25
105-0513-00	STOP PAPER	1	\$3.00
STR53041	STR53041 IC REGULATOR 53041 ECG1840	3	\$13.00
22F469	STRAIGHT CORD PLUG WITH EXTENDED BARREL	6	\$5.92
87F3892	STRAIN RELEIF TYPE 3448-3024 FOR 24P CONNECTOR	16	\$0.30
46F2700	STRAIN RELIEF FOR 34P BERG CONNECTOR	7	\$0.25
87F3882	STRAIN RELIEF (USE WITH 46F4829 50-PIN CONNECTOR)	1	\$0.70
3448-3014	STRAIN RELIEF 3M SCOTCHFLEX OTC 850XL	2	\$0.24
46N7809	STRAIN RELIEF BUSHING FOR POWER CORD TYPE SRR-20	224	\$0.96
87F4010	STRAIN RELIEF USE WITH 87F3976 50P 50 PIN MALE SCSI	4	\$0.35
310-4LCBMA	STRIKE DOOR BEVELED FOLGER ADAMS 24VDC US-26D 1/2"KEEPER NFS	3	\$260.00
US-32D	STRIKE ELECTRIC 24VAC US-32D FINISH SW.OPT.-LCBMA OPT.-FS SO KEEPER TYPE-1/2	5	\$198.03
US-4	STRIKE ELECTRIC DOOR FOLGER ADAMS 24VAC US-4 FINISH SW.OPT.LCBMA OPT.-SO KEEPER TYPE-1/2 NON-F	7	\$231.00
310-2LCBMA-FS	STRIKE FAIL-SAFE 24VDC CARDKEY 3/4" KEEPER STAINLESS	1	\$257.50
310-2	STRIKE NON-FAIL-SAFE 24V NO SWITCHES	2	\$200.00
3314-4	STRIP CHART RECORDER SOLTEC FOR CANNIBILIZATION	1	\$4,867.00
01-0269-001	STYLUS BUTTON	1	\$49.00
29-25536-00(EX)	SUBASSEMBLY VIDEO VR290	1	\$260.00
160101-406	SUPPLY HUB ASSY CIPHER M990	2	\$84.00
961509-001	SUPPLY MOTOR ASSY CIPHER M990	1	\$186.50
641C529010	SUPPLY REEL BRAKES	3	\$2.20
922-1730	SUPPORT ARM INTERNAL CHASSIS APM APPLE 7500 POWERMAC	4	\$2.52
667-900030-003	SUPPORT CLAMSHELL	1	\$50.00
G00045	SUPPORTER BUSHING HOT ROLLER DEQ LN03 RIA LP4080	4	\$3.80
53531555	SUPPORTER BUSHING HOT ROLLER DEQ LN03 RIA LP4080 BRASS	3	\$1.25
11-15224-00	SUPPRESSOR VOLTAGE	8	\$5.00
119-0284-00	SURGE PROCTOR	2	\$1.00
SS-400-1-2	SWAGELOK CONN MALE	9	\$5.00
SS-400-P	SWAGELOK PLUG	5	\$4.00
SS-400-6	SWAGELOK UNION	1	\$8.00
SS-100-6	SWAGELOK UNION	11	\$11.50
02620-60002	SWEEP BD HP2621	1	\$180.00
601211	SWITCH	8	\$2.10



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
3101-0555	SWITCH	2	\$14.00
171005-001	SWITCH	2	\$1.00
260-1648-00	SWITCH	3	\$2.00
3101-2358	SWITCH	1	\$7.00
171006-001	SWITCH	5	\$10.00
3101-2474	SWITCH	2	\$12.00
12-14155-03	SWITCH	1	\$16.00
12-12717-01	SWITCH	4	\$20.00
3090008	SWITCH BLOWER ASSEMBLY NEFF	2	\$5.00
118-8846-01	SWITCH COVER INTERLOCK FOR 4681PX	1	\$19.00
13F3974	SWITCH DPDT MFG. AUGAT ALCOSWITCH	1	\$7.50
21F660	SWITCH DPDT ON-ON-ON C&K 7211	7	\$8.87
SSL0076	SWITCH LEVER AL2S-2M (WITH NOBAZ4004)	2	\$7.74
800129-004	SWITCH MICRO SPDT LEVER DPC B1000 CKS P3100	2	\$5.68
3101-0680	SWITCH POWER PUSH ON/OFF	1	\$12.00
95F7146	SWITCH PUSH MANUFACTURED BY EAO	1	\$13.50
13F3632	SWITCH PUSH BUTTON MOMENTARY TYPE TP11CG-PCO	2	\$4.46
A3104	SWITCH PUSHBUTTON POWER S3	1	\$20.00
260-1222-00	SWITCH PUSH-PULL 10A 250VAC	1	\$20.00
02227-60021	SWITCH ROCKER	1	\$3.70
260-1434-00	SWITCH ROTARY	1	\$8.00
1510002	SWITCH THERMAL NEFF POWER SUPPLY 3001-T127-B209	1	\$23.15
SW280-ND	SWITCH THUMBWHEEL OMRON # A7D-2	2	\$4.79
3101-1051	SWITCH TOGGLE SPDT	1	\$24.50
50001410	SWITCH 115/230 IOMEGA A220H ROCKER 16A 250V	1	\$5.00
206-9	SWITCH 18DIP 9POSITION	3	\$1.20
78-B04S	SWITCH 4 POSITION 8 DIP GRAYHILL	3	\$3.36
662-10006-003	SWITCH 5 POSITION 10 DIP GRAYHILL	7	\$3.68
8A1011	SWITCH 6A 125V SPST TOGGLE	1	\$1.98
662-10006-005	SWITCH 8 POSITION DIP GRAYHILL	4	\$5.90
376-0111-00	SWITCH ACTUATOR TEK TERM	5	\$24.00
SENTROL 2505A	SWITCH ALARM SWITCH WIDE GAP CARDKEY	2	\$21.95
41048	SWITCH ASSEMBLY PUSH NEFF	3	\$2.25
41047	SWITCH ASSEMBLY PUSH DPDT GAIN SELECT NEFF 600XXX	2	\$10.05
41046	SWITCH ASSEMBLY PUSH NEFF	3	\$13.50
SW99	SWITCH ASSY IBM 5154 FRONT PANEL	1	\$20.00
TPD11GG-RA0	SWITCH AUGAT ALCOSWITCH PUSH SPST MOMENTARY	1	\$4.69
81F692	SWITCH BCD WREN 7 SCSI SSU SELECT	1	\$7.98
516-300020-001	SWITCH BUSS	1	\$5,150.00
5213-MOD	SWITCH BUSS	1	\$5,150.00
4111-01	SWITCH CONTRAST BRIGHTNESS	1	\$6.00
DA601RD	SWITCH DELAYED ACTION HEAVY DUTY LOCKNETICS	4	\$184.50
12-25179-01	SWITCH DEQ PB DPDT MOM .1A 12VDC MVAX 2000	4	\$10.00
206-124	SWITCH DIP 4 POSITION 16DIP	3	\$2.40
662-10018-001	SWITCH DIP 4 POSITION 76SC04 MODCOMP	3	\$17.00
76SB07	SWITCH DIP 7POS. 662-100022-006 14DIP	9	\$3.91
JMT223	SWITCH DPDT ON / ON 6A @ 125V 3A @ 250V MICRO TOGGLE	3	\$2.92
23F226	SWITCH DPDT ON-NONE-ON 6A/3A	2	\$10.95
DSM	SWITCH DSM KIT-SINGLE PACK DOOR STATUS MONITORING FOR LOCKNETICS 320 MAGNETIC LOCKS MODEL	2	\$36.00
SW-1	SWITCH DUAL	1	\$15.00
HE-F615RF7	SWITCH EMERGENCY DOOR SWITCH PNEUMATIC 90 SECOND DELAY	1	\$140.00
29-23385-00	SWITCH HARNESS	1	\$57.00
20610-002	SWITCH IND LTD OFF DATA PRINTER	1	\$30.00
20610-001	SWITCH INDICATOR LTD ON DATA PRINTER	2	\$40.10
12-12287-01	SWITCH KEY(A)	10	\$1.00
VGU3969	SWITCH LENSES	4	\$1.79
70-15666-00	SWITCH LIMIT DEQ TS11 9 TRACK TAPE DRIVE	1	\$1.60
20613-001	SWITCH LOAD VF DATA PRINTER	1	\$49.00
20611-001	SWITCH LTD ALARM DATA PRINTER	1	\$51.00
20611-002	SWITCH LTD STOP DATA PRINTER	1	\$36.00
810205-001	SWITCH MAGNETIC HALL EFFECT SPST RIBBON MOTION SENSOR DEC LP25 LP26 DPC B300 B600 B1000	2	\$15.00
50F7984	SWITCH MAGNETIC REED .070" X .500"	3	\$1.32
SW128-ND	SWITCH MICRO 10A 125V LEVER SPDT	1	\$2.36
41575	SWITCH MICRO KEYLOCK 5A 125-250VAC	1	\$9.95
DG2C-B1AA	SWITCH MICRO PCB MOUNT SPDT KENSINGTON TURBO MOUSE	2	\$4.47
D2F-01LN	SWITCH MICRO W/ LEVER LOGITECH MOUSE PCB MOUNT SPDT	2	\$1.33
311SM601-H4	SWITCH MICROSWITCH	7	\$3.70
311SM604-H4	SWITCH MICROSWITCH	9	\$5.21
111SM2-T	SWITCH MICRO-SWITCH DPC LB615	2	\$6.13
8867K4	SWITCH MINIATURE DPDT 2A	12	\$13.58
8866K4	SWITCH MINIATURE SPDT 2A	2	\$11.95

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
39529	SWITCH MOM. ALCATEL CFV-100	3	\$15.00
260-1349-00	SWITCH MOMENTARY KYBD TEK 4014-1	2	\$1.00
96F1750	SWITCH MOMENTARY PUSH BUTTON SPDT .025" PANEL MOUNT HOLE 8168	6	\$4.73
8121SD9AGE	SWITCH MOMENTARY SPDT RESET	1	\$8.64
260-1348-00	SWITCH MOMENTARY KEYBD TEK 4014-1	3	\$1.00
0260-0313	SWITCH MULT-SWITCH	1	\$29.26
800931-005	SWITCH O/O	1	\$15.00
12-22355-09	SWITCH ON/OFF VT220B	2	\$3.20
20612-001	SWITCH ONE LINE DATA PRINTER	1	\$32.00
072-4296	SWITCH ON-ON-ON RIGHT ANGLE DPDT	1	\$13.40
93786012	SWITCH PACK SENSOR	1	\$3.00
246381-002	SWITCH PAPER LOW	2	\$50.00
6247	SWITCH PAPER OUT SWITCH DATA PRINTER	3	\$5.00
5215-MOD	SWITCH PERIPHERAL	1	\$5,780.00
5-78013	SWITCH POTENTIOMETER 1K OHM	2	\$22.05
700K3	SWITCH POWER	1	\$25.10
16783264-002	SWITCH POWER	1	\$38.00
39530	SWITCH POWER ALCATEL CFV-100	2	\$17.00
12-17051-01	SWITCH POWER DEC VT100	1	\$5.04
12-21262-01	SWITCH POWER DEQ MICROVAX	1	\$10.00
3000008	SWITCH POWER ON/OFF NEFF 600 POWER SUPPLY	2	\$17.85
94503-13	SWITCH POWER PUSH-BUTTON QPST METRIX	1	\$28.41
961348-001	SWITCH POWER ROCKER 10A 250V	2	\$13.00
44F1243	SWITCH POWER SWITCH SPST ON-OFF 15A @ 125V 10A @ 250V LIGHTED ROCKER W/RED LENS 1600 SERI	3	\$3.01
260-1804-00	SWITCH POWER TEK 4631	2	\$7.50
100179-001	SWITCH POWER WANGCO MAG TAPE	3	\$36.00
260-2172-00	SWITCH PRESS	1	\$215.00
10076158	SWITCH PRESSURE	2	\$35.00
10076165	SWITCH PRESSURE	2	\$35.00
109868-001	SWITCH PRESSURE PTX P9012	1	\$18.00
10076120	SWITCH PRESSURE SWITCH	2	\$35.00
260-1207-00	SWITCH PUSH	4	\$12.00
PSW-1A	SWITCH PUSH	1	\$11.50
260-1393-00	SWITCH PUSH	3	\$11.00
70060-200\000000	SWITCH PUSH BUTTON	4	\$3.40
025-739200	SWITCH PUSH BUTTON 1P1TM BLACK	1	\$9.00
SDC402G	SWITCH PUSH BUTTON GREEN SPDT CARDKEY CKS	2	\$26.00
30641047	SWITCH PUSH DPDT CONTROL PANEL	1	\$5.00
30641048	SWITCH PUSH DPDT CONTROL PANEL	2	\$25.00
30641046	SWITCH PUSH DPDT CONTROL PANEL	2	\$65.00
260-1497-00	SWITCH PUSH DPDT TEK 4014-1	1	\$6.50
3060011	SWITCH PUSH DPST LIGHTED NEFF	1	\$19.10
110171	SWITCH PUSH KEYBOARD 8000 SERIES	1	\$4.88
260-1497-00-CP	SWITCH PUSH PULL DPDT MAIN AC 250 VAC 10A	2	\$2.00
340007-01	SWITCH PUSH SPST	5	\$1.75
121995-00	SWITCH PUSH SPST KEYSWITCH TELEVIDEO 970	2	\$3.50
260-2047-01	SWITCH PUSH TEK	2	\$11.50
260-1924-00	SWITCH PUSH TEK TERM	3	\$5.00
118-3180-00	SWITCH PUSHBUTTON (CR)	2	\$2.00
829X002-01	SWITCH PUSHBUTTON BY DRESSER INDUSTRIES	2	\$8.45
GH2130	SWITCH PUSHBUTTON LIGHTED DPST MOMENTARY NO	5	\$17.10
260-2259-00	SWITCH PUSH-PUSH DPST 5A 250V A6S435	1	\$15.25
94503-14	SWITCH READ PUSH-BUTTON QPST METRIX	2	\$28.41
260-1507-00	SWITCH REED 4014-1 TERM	11	\$3.60
815-6034	SWITCH RESET APM APPLE MAC2CI MAC2CX MACINTOSH BUTTON	2	\$4.50
815-6024	SWITCH RESET INTERRUPT APM MAC2	2	\$4.50
94503-12	SWITCH RESET PUSH-BUTTON DPST METRIX	3	\$16.50
260-1490-00	SWITCH ROCKER TEK 4631	3	\$6.00
CP433C00101	SWITCH ROCKER DPDT MBI XC1430 POWER SWITCH	2	\$5.05
101798-001	SWITCH ROCKER DPST POWER FILTER CPQ COMPAQ PORTABLE	1	\$80.00
260-1642-01	SWITCH ROCKER TEK TERM	4	\$8.00
09815-67001	SWITCH ROLLER	1	\$25.00
3100-3364	SWITCH ROTARY	1	\$23.00
263-0073-01(EX)	SWITCH ROTARY OPTICAL CUSOR THUMBWHEEL 4114	1	\$55.00
260-1719-00	SWITCH ROTARY TEK 4631	1	\$11.75
263-0018-00	SWITCH ROTARY TEK THUMBWHEEL OPTICAL CURSOR	2	\$85.00
T20-34AP	SWITCH ROTARY THUMBWHEEL DIG CON PNC	5	\$14.57
17-00942-01	SWITCH SENSOR DEQ UVAX	3	\$17.00
09121-48306	SWITCH SHAFT	1	\$5.75
260-0448-00	SWITCH SLIDE TEK 4014-1	4	\$1.30
5107-100-03591	SWITCH SNM VOLTAGE SELECTOR PHILLIPS 19M EMI FILTER SUN	1	\$100.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
3120023	SWITCH SOLID STATE SWITCH LCA 110 6DIP	3	\$6.00
23F894	SWITCH SPDT 46-101 BLACK PUSH	2	\$5.50
948-7129	SWITCH SPDT DUAL-IN-LINE 10 POSITION 20DIP	5	\$3.80
643-05	SWITCH SPDT MOMENTARY KEYSWITCH LOCKNETICS	2	\$70.50
8280K16	SWITCH SPST 5930-231-1491	2	\$1.86
F5T8GP	SWITCH SUB MICRO BURGESS DEQ MOUSE	5	\$6.73
260-1619-00	SWITCH TEK	3	\$1.95
20613-002	SWITCH TEST PRINT DATA PRINTER	1	\$49.00
260-1654-00	SWITCH THERMSITIC TEK 4631	1	\$7.25
518	SWITCH TOGGLE DPDT ON-NONE-ON DAYTRONIC 4010 DDY	1	\$7.14
5930-00-642-9188	SWITCH TOGGLE DPST ON-NONE-OFF DEQ VT100 VT105	2	\$2.84
3101-0451	SWITCH TOGGLE ONE RESET HP2250	1	\$4.00
MTA106D	SWITCH TOGGLE SPDT 125V 6A AC ON-ON	2	\$4.60
260-1805-00	SWITCH TOGGLE TEK 4014-1	1	\$8.75
46F1823	SWITCH TOGGLE VERTICAL RIGHT ANGLE MOUNT ON-NONE-ON 7101MD9AV2BE MKS250C	2	\$4.17
172306-001	SWITCH TRK ZERO	5	\$3.00
22F233	SWITCH TYPE 913 PUSHBUTTON	1	\$3.26
22F239	SWITCH TYPE 953	1	\$6.36
29-22369-00	SWITCH W ACTUATOR DEC LP-25	1	\$7.00
A16094G1	SWITCH YOKE LATCH PRINTRONIX	1	\$4.50
SLP 1	SWITCHBOX KNDY 9900	1	\$15.00
782123805	SYBEX A+ CERTIFICATION KIT 2/E	1	\$59.80
5579C	SYRINGE	73	\$0.20
78-6969-6128-9	T 407 N-P DEVELOPER	4	\$24.00
09872-60002	TABLE ASSY HPC 9872A PLATEN	2	\$200.00
160105-433	TACHOMETER ASSY M990	1	\$210.00
29-24358-00	TACHOMETER DEC TU80	1	\$6.00
T1	TACHOMETER E095	1	\$10.00
641C528010	TAKE UP REEL BRAKES	3	\$1.65
3330	TAPE 2" YELLOW 60 YD.ROLL	3	\$9.40
3535	TAPE ANTISEIZING 1/2" PLUMBERS THREAD TEFLON ANTI-SEIZING	6	\$0.65
3534	TAPE ANTISEIZING 1/4" PLUMBERS THREAD TEFLON ANTI-SEIZING	1	\$0.50
1584	TAPE ANTISEIZING 3/4" PLUMBERS THREAD TEFLON ANTI-SEIZING	3	\$0.99
DC-600A	TAPE BACKUP DATA CARTRIDGE H/D 286PC SNM 3M 1/4" 1/4 INCH .25 INCH 60MB	3	\$24.00
JUMBO 250	TAPE BACKUP JUMBO 350MB DRIVE	2	\$127.00
XY904	TAPE BOOT KIT SUN 3/280 SUN OS 3.5	1	\$113.00
98200A	TAPE CARTRIDGE HP 9845 3M DC100A	4	\$21.09
7180	TAPE CASSETTE 4MM 60M	2	\$6.25
PS-82	TAPE CLEAR 2"WIDE ROLL	19	\$1.20
MMM-652	TAPE CORRECTION COVER UP 1/3" TWO LINE	15	\$2.21
4963	TAPE COTTON OR LINEN OVERALL BLACK 3"	2	\$20.30
MMM-651	TAPE COVER UP CORRECTION 1/6" ONE LINE	16	\$1.64
Q-PAK	TAPE DIAGNOSTIC	1	\$120.00
2408	TAPE DISPENSER	3	\$0.61
5717	TAPE DOUBLE-SIDED TAPE 2"	2	\$5.53
370-1103(UT)	TAPE DRIVE .25" SUN	1	\$150.00
SNM 370-1062	TAPE DRIVE 0.5" SUN FUJITSU M2444 REEL	1	\$14,027.00
452ONT	TAPE DRIVE 4MM DAT 5.25IN 5-1/4"	1	\$560.00
432ONT	TAPE DRIVE 4MM DAT ARCHIVE 3.5IN WITH 5-1/4IN MOUNTING BRACKET	1	\$495.00
EXB8200	TAPE DRIVE 8200 EXB SUN DEQ 8MM	1	\$1,700.00
EXB8200	TAPE DRIVE 8200 EXB SUN DEQ 8MM	1	\$2,480.00
TK50(UT)	TAPE DRIVE 91MB 5.25" REMOVABLE CARTRIDGE DEQ TK50	1	\$175.00
TK50-A	TAPE DRIVE 91MB 5.25" REMOVABLE CARTRIDGE DEQ TK50	1	\$2,802.00
TK70(UT)	TAPE DRIVE CARTRIDGE 296MB 5.25" DEQ TK70-EA W/O SKID PLATE WITH TK70E-SA SLIDE MOUNT KIT	1	\$125.00
680-200016-001	TAPE DRIVE MOD IPS-2 2404-150	1	\$869.00
5099EN24	TAPE DRIVE SNM 60MB 1/4	1	\$100.00
4291	TAPE ELECTRICAL 3/4 inch WIDE .75 inch wide	2	\$3.58
4772	TAPE FILAMENT REINFORCED 1"	2	\$1.34
240871-001	TAPE INSULATING	2	\$1.00
MT-10	TAPE MAGNETIC KENNEDY CIPHER	9	\$1.00
4963-M	TAPE MASKING TAPE 1" WIDE	3	\$3.92
2450	TAPE MASKING TAPE 1/2" WIDE	2	\$5.65
2395	TAPE MASKING TAPE 2"	14	\$3.32
2470	TAPE MASKING TAPE 3/4" WIDE	2	\$1.14
9852	TAPE PRESSURE SENSITIVE SCOTCH 3/4 INCH WIDE	16	\$0.75
MP6-120	TAPE RECORDING CARTRIDGE 8MM	3	\$5.00
131047-001	TAPE SCRAPER	1	\$50.00
432641	TAPE SKEW	1	\$195.00
1439	TAPE TRANSPARENT REMOVABLE MAGIC TAPE	3	\$2.43
L6141303	TC TYPE 0536	2	\$82.00
672311623	TEACH YOURSELF LINUX IN 24HRS	1	\$16.75

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
264P-1/4	TEE POLYFLO 1/4	10	\$4.78
B-400-3	TEE UNION	4	\$5.70
SS-400-3	TEE UNION	3	\$16.50
436-020402	TEK PAPER TRAY 8 1/2 X 11 TO 8 1/2 X 14	1	\$99.00
3608371	TENSIOMETER BELT 35LB GATES	1	\$50.00
07470-40027	TENSIONER	1	\$1.00
LINK MC5	TERMINAL	1	\$520.00
8-640907-1	TERMINAL 12-10 WIRE SIZE	67	\$0.18
08-50-0106	TERMINAL 18-24 GAUGE	79	\$0.06
750-4112	TERMINAL BLOCK SERIES 12-140-Y BARRIER	3	\$5.67
54-15495-02	TERMINAL CONTROLLER (FULL SIZE)	1	\$550.00
DEQ VT100	TERMINAL CRT SMART USE KEYBOARD DEQ VT100KB	1	\$2,050.00
DEQ VT278	TERMINAL DEQ VT278 W/POWER CORD	1	\$200.00
HPC 700/22	TERMINAL HPC 700/22 W/POWER CORD SPARE LOANER	1	\$275.00
AMD 300A(L1)	TERMINAL LOANER DUMB	1	\$150.00
5940-552-2024	TERMINAL LUG BLOCK SPADE WIRE SIZE 22-16 STUD SIZE 10 RED	6	\$0.03
8-42844-1	TERMINAL LUG QUICK CONNECT WIRE SIZE 14-12 AWG	97	\$0.18
5940-143-4794	TERMINAL LUG RING STUD SIZE 10 WIRE SIZE 12-10 YELLOW	10	\$0.04
5940-813-0698	TERMINAL LUG RING WIRE SIZE 22-16 STUD SIZE 6	20	\$0.02
46F8495	TERMINAL LUGS LUG BLOCK SPADE WIRE SIZE 16-14 AWG SCREW SIZE 6	61	\$0.06
46F8496	TERMINAL LUGS LUG BLOCK SPADE WIRE SIZE 16-14 AWG SCREW SIZE 8	93	\$0.29
87F5489	TERMINAL LUGS LUG BLOCK SPADE WIRE SIZE 22-16 AWG SCREW SIZE 2	65	\$0.30
46F8486	TERMINAL LUGS LUG BLOCK SPADE WIRE SIZE 22-16 AWG SCREW SIZE 8	116	\$0.40
46F8485	TERMINAL LUGS LUG BLOCK SPADE WIRE SIZE 22-16 SCREW SIZE 6	51	\$0.14
87F5609	TERMINAL LUGS LUG FEMALE WIRE SIZE 16-14 AWG	21	\$0.11
87F5608	TERMINAL LUGS LUG FEMALE WIRE SIZE 22-18 AWG	75	\$0.11
46F8490	TERMINAL LUGS LUG RING WIRE SIZE 16-14 AWG SCREW SIZE 6	15	\$0.15
NEK NCD17C	TERMINAL NEK NCD17C GRAPHIC 17C	1	\$1,526.00
DEQ VT100AA	TERMINAL NO KEYBOARD CRT SMART USE KEYBOARD DEQ VT100AAKB	1	\$245.00
LSI ADM11	TERMINAL NO KEYBOARD SPARE LOANER	1	\$500.00
HDS 3200	TERMINAL NO KEYBOARD USE KEYBOARD HDS 3200KB HDS 3200 WITH POWER CORD SPARE LOANER	1	\$1,099.00
38F1328	TERMINAL PUSH-IN T42-1/M (PACK OF 1000 ISSUE EACH)	545	\$0.05
4771	TERMINAL RING	24	\$0.02
4774	TERMINAL RING	5	\$0.03
1629	TERMINAL RING WIRE SIZE 22-18 STUD SIZE 8	52	\$0.07
1375	TERMINAL SPLICE WIRE SIZE 16-14	8	\$0.09
1647	TERMINAL SPLICE WIRE SIZE 22-18	21	\$0.08
1646	TERMINAL SPLICE WIRE SIZE 24-26	2	\$0.17
TVI 950	TERMINAL TVI 950 NO KEYBOARD USE KEYBOARD TVI 950KB SPARE LOANER	1	\$150.00
TVI 970(1)	TERMINAL TVI 970 NO KEYBOARD USE KEYBOARD TVI 970KB(1) SPARE LOANER	1	\$650.00
TVI 970(2)	TERMINAL TVI 970 NO KEYBOARD USE KEYBOARD TVI 970KB(2) SPARE LOANER	1	\$650.00
TVI 925(L)	TERMINAL TVI LOANER USE KEYBOARD TVI 925KB(L)	1	\$350.00
TVI 9220	TERMINAL TVI NO KEYBOARD USE KEYBOARD TVI 9220KB TVI 9220	1	\$285.00
TVI 925	TERMINAL TVI NO KEYBOARD USE KEYBOARD TVI 925KB SPARE LOANER	1	\$350.00
WYS WY60(1)	TERMINAL WYSE 60 S/N 01C30500021	1	\$294.00
NEK NCD19B	TERMINAL X NETWORK NEK NCD19B	1	\$1,230.00
150-1346	TERMINATOR MINI 50DPIN SNM	2	\$50.00
53725	TERMINATOR SCSI ACTIVE	2	\$11.00
845965128	TERMINATOR DIFFERENTIAL SCSI 50P 50PIN CENTRONIX MALE	1	\$20.00
680-500008-001	TERMINATOR DISK	1	\$290.00
530-1381	TERMINATOR EXTERNAL SCSI D TYPE 50P MALE	2	\$75.00
658-8032	TERMINATOR HD-20 SCSI APPLE GRAY APM MACII MAC 50 PIN CENTRONIX	2	\$27.00
077-0135	TEST CABLE VOLTAGE	1	\$15.00
4555-0	TEST CLIP MINIGRABBER GRABBER CLIP EZ HOOK BLACK	8	\$1.75
4555-2	TEST CLIP MINIGRABBER GRABBER CLIP EZ HOOK RED	9	\$1.50
24397-60005	TEST CONNECTOR ASIC HPC	1	\$110.00
5061-4909	TEST CONNECTOR DL HPC	1	\$39.00
12930-60013	TEST CONNECTOR HPC	2	\$4.00
12966-60003	TEST CONNECTOR HPC	7	\$50.00
5061-4901	TEST CONNECTOR MUX-LOOPBACK HPC	2	\$28.00
24397-60004	TEST CONNECTOR PIC HPC	2	\$90.00
5061-4916	TEST CONNECTOR PSI MODEN HPC	1	\$27.00
5061-3460	TEST CONNECTOR PSI-DIR HPC	1	\$50.00
125	TEST LEAD & PROBE SIMPSON TEST LEADS PROBE SET THREADED WITH CLIPS BANANA	4	\$18.50
561	TEST LEADS	3	\$6.14
09836-80000	TEST ROM SET HP9826-36	1	\$280.00
045-0042-00	TEST SET ROM TEKTRONIX	1	\$100.00
WYLE13	TESTER CABLE	1	\$10.00
61-035	TESTER CIRCUIT 120V OUTLET	1	\$10.00
1501873	TESTER DATA COMMUN IBM PCAT	1	\$10.00
12-15336-00	TESTER DEQ VT240	1	\$20.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
70-21489-01	TESTER DEQNA	1	\$50.00
9010-9832	TESTER INTERFACE 620	1	\$100.00
WYLE2	TESTER INTERFACE DIF DIB DIF/DIB	1	\$100.00
WYLE6	TESTER PCB 4631 MAIN BOARD	1	\$20.00
TX9819	TEXPAD GOLDWIPE CONTACT CLEANER LUBRICANT	72	\$0.30
TX801	TEXPAD TAPE HEAD CLEANER	62	\$0.22
TX803	TEXPAD TERMINAL WIPE CRT SCREEN CLEANER	159	\$0.21
TX300B	TEXSLEEVE	1570	\$0.10
TX707A	TEXSWAB ISSUED F/STOCK EA.50/BAG ORDER QUANTITY 100/BAG FOAM TIP SWAB	23	\$16.28
TX800	TEXWAND	27	\$0.79
TX800	TEXWAND	6	\$0.20
118-6757-02	THERMAL HEAD UNIT TEK 4693	1	\$1,235.00
102714C	THERMAL PRINTER PAPER	4	\$10.00
RG5-0474	THERMAL SWITCH FUSER HPC 4	2	\$21.95
1314270-00	THERMISTOR	4	\$1.00
RH7-7045	THERMISTOR FUSER HPC 4	2	\$19.00
650-400000-001	THERMISTOR 1.8K 5% 1/4W	1	\$49.00
837-6500	THERMISTOR 10 OHM 7A	3	\$3.24
135-105QAG-J01	THERMISTOR 1M OHM PRECISION THERMISTOR ONLY TO BE ISSUED TO LAB 614-0	7	\$3.83
135-503LAG-J01	THERMISTOR 50KOHM AT 25 DEG C ONLY TO BE ISSUED TO LAB 614-0	6	\$3.95
29-25217-00	THERMISTOR DEC LNO3 RIA LP4080 53535163	3	\$19.75
0837-0252	THERMISTOR HP 0837-0252	8	\$3.20
121803-00	THERMISTOR OPC 1K	4	\$1.00
38112026	THERMISTOR POSITIVE	1	\$1.50
8-RH7-7002-020	THERMISTOR QMS PSJET+ USE WITH 661-0450 FUSER	2	\$29.06
P23000400	THERMO FUSE 525A HTR BASE	5	\$7.50
4010	THERMOCOUPLE 4 CHANNEL CONDITIONER DAYTRONICS POWER SEQUENCER	0	\$1,595.00
HK5081	THERMOFOIL HEATER KIT	1	\$35.40
6685-107-0852	THERMOMETER MERCURY LIQUID AND GLASS	2	\$3.63
99291-145-50	THERMOMETER RUSKA 6000	2	\$50.00
99292	THERMOMETER RUSKA AIR PISTON 2465	1	\$48.50
935-6527	THERMO-PAD REPLACES MICA AND GREASE TO2PML STYLE	5	\$0.40
935-6516	THERMO-PAD REPLACES MICA AND GREASE TO-126 STYLE	15	\$0.15
935-6520	THERMO-PAD TO-220 STYLE REPLACES MICA AND GREASE	11	\$0.21
6000-1-10017	THERMOSTAT	3	\$41.00
662-100016-001	THERMOSTAT MODCOMP	2	\$15.00
662-100016-002	THERMOSTAT MODCOMP	2	\$33.00
8-FH7-7041-040	THERMOSWITCH 245 DEGREE QMS PSJET+	1	\$25.48
9215	THINNER FOR CORRECTION FLUID WHITEOUT	3	\$0.51
ECG5463	THYRISTON SK9292 S1010BH SCR	2	\$3.50
34-1039	THYRISTOR POSITIVE DUAL PTC	2	\$6.99
SK9290	THYRISTOR 9290 SCR RCA ECG5461	1	\$2.05
20-0109	TIP DESOLDERING PLATO PACE	5	\$4.34
20-0110	TIP DESOLDERING PLATO PACE ORDER QTY. = 1 PACK OF 25 / BROKEN DOWN FOR STOCK ISSUE QTY. = 1 P	1	\$4.60
6319	TIP SOLDERING SOLDER CHISEL	1	\$6.05
23F039	TOGGLE SWITCH TYPE7320K13	1	\$5.65
TCM5087	TOPE GENERATOR DTMF	3	\$9.00
92275A	TONER CARTRIDGE	2	\$92.00
077-0364	TOOL TAKE APART LOGIC BOARD POWERBOOK APM APPLE PB170 PB140	1	\$66.60
9845-99	TOOL ALIGNMENT CAPSTAN HPC9845 ENCODER 9845	1	\$10.00
T01392-001	TOOL CEI HEAD ALIGNMENT CIPHER M990	1	\$100.00
48518	TOOL CRIMPING	1	\$50.00
59250	TOOL CRIMPING	1	\$50.00
128163	TOOL CRIMPING	1	\$50.00
061742-04	TOOL INSERTION	1	\$20.00
59804-1	TOOL INSERTION CARDKEY SYSTEM CKS MTA CONNECTOR MANUAL	2	\$15.00
K9600-1	TOOL KEY HUB KENNEDY 9600	1	\$100.00
17072-0042	TOOL MYLAR ALIGN	1	\$50.00
076-8059	TOOL PULL-A-PART PULL APART APM APPLE	1	\$21.00
17072-20073	TOOL SPRKT ALIGN	1	\$65.00
MS-17823-1	TOOL TY-WRAP	1	\$50.00
44F1790	TOOL UNWRAP	1	\$18.90
2523	TOOL WIRE STRIPPER	1	\$50.00
200 09 358	TOOTHED RIM	2	\$5.46
960057	TOP COVER WINDOW CIPHER DISK DRIVE	1	\$100.00
4040-1986	TOP ENCLOSURE	1	\$27.00
076-8053	TORX DRIVER LONG	1	\$21.00
02670-60084	TPM CONT BD HP2621	1	\$210.00
5-90019	TRACE ANGLE COIL	2	\$18.45
661-0730	TRACKBALL ASSEMBLY APM PB140 PB170	4	\$101.70
F334257031	TRACTOR ASSEMBLY LEFT	1	\$26.44

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
F334257041	TRACTOR ASSEMBLY RIGHT	2	\$36.00
F334257030	TRACTOR ASSY LEFT	1	\$36.85
104023-001	TRACTOR ASSY RIGHT HAND	1	\$50.00
29-25261-00	TRACTOR LEFT	1	\$4.00
8529188	TRACTOR LEFT	2	\$20.00
44C510157-G04	TRACTOR LOWER LEFT GNM 4470	1	\$80.00
44C510157-G03	TRACTOR LOWER RIGHT GNM 4470	1	\$70.00
12-18685-02	TRACTOR PAIR LEFT RIGHT DEQ LA36	2	\$14.00
108616-902	TRACTOR RIGHT	1	\$57.20
29-25260-00	TRACTOR RIGHT	1	\$4.00
592-24	TRANSFORMER 24V AC 1.67 AMP LOCKNETICS	2	\$19.60
MJ10009	TRANSISTOR	1	\$22.21
19-19015-00	TRANSCEIVER DCO21 BUS TRANSCEIVER	1	\$66.00
90022627	TRANSCIEVER CARD NEFF PCB	2	\$2,070.00
50052101	TRANSFER CHARGER	1	\$41.12
135-739160-A	TRANSFER CHARGER ASSY	2	\$11.09
8-RG1-0191-020	TRANSFER CORONA ASSY QMS PSJET+	4	\$17.00
8-RG1-0195-000	TRANSFER GUIDE ASSY QMS PSJET+ LASER+ 2686	1	\$15.00
4560	TRANSFER INK ROLL 3-COLOR TEKTRONIX TEK 4693DX 4693 THERMAL WAX PRINTER	2	\$131.90
R-17-3227	TRANSFORMER	1	\$31.17
120-1466-00	TRANSFORMER	1	\$115.00
9100-3859	TRANSFORMER	1	\$1.00
5334D	TRANSFORMER	1	\$2.00
5251-C	TRANSFORMER	2	\$2.00
16-16536-00	TRANSFORMER	8	\$3.00
9100-4238	TRANSFORMER	1	\$5.00
9100-0455	TRANSFORMER	1	\$8.00
129458-3	TRANSFORMER	1	\$20.00
16-15668-01C	TRANSFORMER	1	\$20.00
120-0917-02	TRANSFORMER	1	\$25.00
120-1164-00	TRANSFORMER	1	\$100.00
9100-4082	TRANSFORMER	1	\$130.00
TFB185A	TRANSFORMER 8513 FLYBACK DELETE AT ZERO BALANCE	2	\$24.99
928-0238	TRANSFORMER DSW-536 DUAL 115/230 V 50/60 HZ 8 PIN	1	\$8.25
P33400301	TRANSFORMER FLYBACK	1	\$59.10
ST901712	TRANSFORMER FLYBACK IKE 2060 SPRMAC	1	\$176.58
120-0916-01-CP	TRANSFORMER POWER	2	\$20.00
598	TRANSFORMER 598 INPUT 120VAC OUTPUT 8/16/24VAC EDWARDS	6	\$25.00
592	TRANSFORMER 8V @ 10VA 16V @ 10VA 24V @ 20VA 110V INPUT	1	\$16.00
9100-4141	TRANSFORMER 9872	1	\$35.00
29-24239-00(EX)	TRANSFORMER ASSY DEQ LA50	1	\$25.00
1612522-00	TRANSFORMER ASSY DEQ PRIMARY LA36	2	\$50.00
970-1273	TRANSFORMER DC POWER SUPPLY 110V APM LASER+ HPC 2686A	1	\$77.50
70-17148-00	TRANSFORMER DEC VT TERM	1	\$94.00
122690-00	TRANSFORMER FLYBACK	2	\$12.00
105719-030	TRANSFORMER FLYBACK	2	\$125.00
076-0399	TRANSFORMER FLYBACK APM APPLE RGB21	1	\$144.00
33-980	TRANSFORMER FLYBACK APPLE/MAC.M0001W	3	\$33.80
1-017-5372	TRANSFORMER FLYBACK BALL TV9 LSADM3A	2	\$35.00
70-17363-01	TRANSFORMER FLYBACK DEC VT100	3	\$60.00
1-439-393-11	TRANSFORMER FLYBACK GDM1901 GDM1902	1	\$98.16
16-20097-01	TRANSFORMER FLYBACK HV DEC VR201	1	\$34.99
33-985	TRANSFORMER FLYBACK IBM 5151	2	\$29.95
MSH1FCT31	TRANSFORMER FLYBACK IBM 8513	1	\$19.99
47105626	TRANSFORMER FLYBACK NEC JC1401	2	\$37.99
34-1167	TRANSFORMER FLYBACK SBP 4095N	2	\$12.99
2434791	TRANSFORMER FLYBACK SCG3030	1	\$95.58
5107-140-01781	TRANSFORMER FLYBACK SNM W/O CKT BD	2	\$41.00
620000-30	TRANSFORMER HV-FLYBK	2	\$19.00
8529235	TRANSFORMER IBM 5151	2	\$23.25
GIS-250	TRANSFORMER ISOLATION	1	\$77.00
120-0515-00	TRANSFORMER LV POWER SUPPLY TEK 4014-1	1	\$12.00
656-100031-001	TRANSFORMER MODCOMP	3	\$37.00
2225700-T	TRANSFORMER P/S	1	\$100.00
F-42A	TRANSFORMER POWER	1	\$25.00
120-1056-00	TRANSFORMER POWER	1	\$140.00
656-100017-001	TRANSFORMER POWER	1	\$188.00
Y440501000	TRANSFORMER POWER 120V	2	\$42.00
Y440506000	TRANSFORMER POWER 120V	3	\$57.00
Y440511000	TRANSFORMER POWER FX80	1	\$57.00
120-0916-00(EX)	TRANSFORMER POWER TEK 4631	1	\$25.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
120-0916-00	TRANSFORMER POWER TEK HARD CY	1	\$100.00
120-1553-00	TRANSFORMER STEPDOWN TEK 4692	1	\$120.00
120-0917-02	TRANSFORMER TEK 4014 & 4631	2	\$25.00
120-0927-00	TRANSFORMER TEK4014	1	\$180.00
1061-0400-001	TRANSFORMER TRIGGER	2	\$18.50
656-100015-001	TRANSFORMER.POWER	1	\$220.00
SA40CA	TRANSIENT VOLTAGE SUPPRESSOR DIODE BI-DIRECTIONAL	1	\$0.88
MPSA13	TRANSISTOR	3	\$0.09
C1213	TRANSISTOR	2	\$0.18
MPS3646	TRANSISTOR	2	\$0.20
151-0424-00	TRANSISTOR	1	\$0.30
MPSW01A	TRANSISTOR	2	\$0.30
151-0192-00	TRANSISTOR	5	\$0.35
151-0254-00	TRANSISTOR	2	\$0.40
2SB772	TRANSISTOR	5	\$0.45
2N2270	TRANSISTOR	12	\$0.52
2N1613	TRANSISTOR	3	\$0.53
2N4919	TRANSISTOR	2	\$0.56
2SD882	TRANSISTOR	5	\$0.59
TIP41B	TRANSISTOR	6	\$0.62
2SK701	TRANSISTOR	5	\$0.79
151-0190-06	TRANSISTOR	2	\$0.80
2N4036	TRANSISTOR	3	\$0.80
3N81	TRANSISTOR	3	\$0.90
2SK23A	TRANSISTOR	9	\$0.90
321-10001-00	TRANSISTOR	4	\$0.98
A1538	TRANSISTOR	2	\$0.99
C3953	TRANSISTOR	2	\$0.99
2N1184A	TRANSISTOR	1	\$1.00
2N1217	TRANSISTOR	1	\$1.00
2N4265	TRANSISTOR	1	\$1.00
2N497	TRANSISTOR	1	\$1.00
2N548A	TRANSISTOR	1	\$1.00
2SC1114	TRANSISTOR	1	\$1.00
2SC867A	TRANSISTOR	1	\$1.00
2SD774	TRANSISTOR	1	\$1.00
DTS-413	TRANSISTOR	1	\$1.00
MJE200	TRANSISTOR	1	\$1.00
S3224	TRANSISTOR	1	\$1.00
SJ903	TRANSISTOR	1	\$1.00
SK3861	TRANSISTOR	1	\$1.00
014-364	TRANSISTOR	2	\$1.00
014-615	TRANSISTOR	2	\$1.00
2N5136	TRANSISTOR	2	\$1.00
2N581	TRANSISTOR	2	\$1.00
2N626A	TRANSISTOR	2	\$1.00
2N708	TRANSISTOR	2	\$1.00
2SC1116	TRANSISTOR	2	\$1.00
CTP1729	TRANSISTOR	2	\$1.00
MPS3693	TRANSISTOR	2	\$1.00
MPS6520	TRANSISTOR	2	\$1.00
014-614	TRANSISTOR	3	\$1.00
37958	TRANSISTOR	4	\$1.00
014-173	TRANSISTOR	4	\$1.00
014-261	TRANSISTOR	4	\$1.00
014-265	TRANSISTOR	4	\$1.00
014-581	TRANSISTOR	4	\$1.00
2N603	TRANSISTOR	4	\$1.00
2N645	TRANSISTOR	4	\$1.00
2SB33	TRANSISTOR	4	\$1.00
M626	TRANSISTOR	4	\$1.00
MPS404	TRANSISTOR	4	\$1.00
SJ903/7952	TRANSISTOR	4	\$1.00
014-247	TRANSISTOR	5	\$1.00
014-678	TRANSISTOR	5	\$1.00
2N656	TRANSISTOR	6	\$1.00
MPS404A	TRANSISTOR	6	\$1.00
014-383	TRANSISTOR	9	\$1.00
2SA706	TRANSISTOR	9	\$1.00
2SC926A	TRANSISTOR	9	\$1.00
15-10705-01	TRANSISTOR	10	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2SA684	TRANSISTOR	10	\$1.00
2SC1124	TRANSISTOR	10	\$1.00
MPS6523	TRANSISTOR	11	\$1.00
2N414	TRANSISTOR	17	\$1.00
MPS4274-18	TRANSISTOR	19	\$1.00
40362	TRANSISTOR	2	\$1.02
40361	TRANSISTOR	4	\$1.02
2961	TRANSISTOR	1	\$1.03
2962	TRANSISTOR	4	\$1.03
2SC634A	TRANSISTOR	7	\$1.05
2SC732	TRANSISTOR	9	\$1.05
2SC828	TRANSISTOR	2	\$1.06
2N1186	TRANSISTOR	1	\$1.10
2N408	TRANSISTOR	1	\$1.10
2SB137	TRANSISTOR	1	\$1.10
014-616	TRANSISTOR	2	\$1.10
2N268	TRANSISTOR	2	\$1.10
M4355	TRANSISTOR	2	\$1.10
151-0323-00	TRANSISTOR	3	\$1.10
2N2475	TRANSISTOR	4	\$1.10
2N657	TRANSISTOR	4	\$1.10
2SC829B	TRANSISTOR	6	\$1.10
SK433G	TRANSISTOR	7	\$1.10
2N522A	TRANSISTOR	9	\$1.10
2SA1027A	TRANSISTOR	10	\$1.10
2N427	TRANSISTOR	18	\$1.10
2SA705	TRANSISTOR	19	\$1.10
SK3114	TRANSISTOR	2	\$1.12
2SCA03C	TRANSISTOR	10	\$1.12
2SC2135	TRANSISTOR	10	\$1.15
2SC2785	TRANSISTOR	20	\$1.17
2SC2958	TRANSISTOR	3	\$1.18
2N207B	TRANSISTOR	1	\$1.20
2N417	TRANSISTOR	1	\$1.20
2N608A	TRANSISTOR	1	\$1.20
2N6673	TRANSISTOR	1	\$1.20
SG-613	TRANSISTOR	1	\$1.20
2N3791	TRANSISTOR	2	\$1.20
2N615A	TRANSISTOR	2	\$1.20
2SC1384	TRANSISTOR	2	\$1.20
NS7803	TRANSISTOR	2	\$1.20
2N4863	TRANSISTOR	3	\$1.20
014-554	TRANSISTOR	4	\$1.20
2N5555	TRANSISTOR	4	\$1.20
2SC1723	TRANSISTOR	5	\$1.20
2SC1962	TRANSISTOR	5	\$1.20
2SC2072	TRANSISTOR	5	\$1.20
2N1301	TRANSISTOR	9	\$1.20
2SC1061	TRANSISTOR	10	\$1.20
2N446A	TRANSISTOR	12	\$1.20
2N707A	TRANSISTOR	12	\$1.20
2N1377	TRANSISTOR	14	\$1.20
128232F	TRANSISTOR	16	\$1.20
MJE800	TRANSISTOR	19	\$1.20
128234-3	TRANSISTOR	21	\$1.20
2SC1364	TRANSISTOR	27	\$1.20
151-0109-00	TRANSISTOR	3	\$1.24
1851-0037	TRANSISTOR	2	\$1.25
2N3998	TRANSISTOR	2	\$1.25
1850-0169	TRANSISTOR	3	\$1.25
2SC1475	TRANSISTOR	25	\$1.25
ECC198	TRANSISTOR	1	\$1.26
2SC1636	TRANSISTOR	10	\$1.27
2N4234	TRANSISTOR	1	\$1.30
2N2374	TRANSISTOR	2	\$1.30
2N2380	TRANSISTOR	2	\$1.30
HEP5018	TRANSISTOR	2	\$1.30
HEP642	TRANSISTOR	2	\$1.30
2N1099	TRANSISTOR	3	\$1.30
2N2501	TRANSISTOR	3	\$1.30
2N5680	TRANSISTOR	3	\$1.30



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
7939	TRANSISTOR	4	\$1.30
2SA1221	TRANSISTOR	4	\$1.30
2N1043	TRANSISTOR	5	\$1.30
2N1395	TRANSISTOR	6	\$1.30
2SA772	TRANSISTOR	6	\$1.30
2N861	TRANSISTOR	10	\$1.30
MMT3906	TRANSISTOR	10	\$1.30
128234-2	TRANSISTOR	32	\$1.30
2N2712	TRANSISTOR	3	\$1.33
2SC3675	TRANSISTOR	2	\$1.39
2N1478	TRANSISTOR	2	\$1.40
2N3740	TRANSISTOR	2	\$1.40
GT905	TRANSISTOR	2	\$1.40
MPSU01A	TRANSISTOR	2	\$1.40
U1899	TRANSISTOR	2	\$1.40
2N1495	TRANSISTOR	3	\$1.40
2N2710	TRANSISTOR	3	\$1.40
MJ4035	TRANSISTOR	4	\$1.40
2N2711	TRANSISTOR	5	\$1.40
MPS3640	TRANSISTOR	6	\$1.40
2N1748	TRANSISTOR	7	\$1.40
2N863	TRANSISTOR	7	\$1.40
MM4019	TRANSISTOR	18	\$1.40
2N2923	TRANSISTOR	2	\$1.42
SK3122	TRANSISTOR	2	\$1.42
2N722	TRANSISTOR	1	\$1.45
2N3693	TRANSISTOR	2	\$1.45
BUY18S	TRANSISTOR	3	\$1.45
7852	TRANSISTOR	7	\$1.45
2N4921	TRANSISTOR	15	\$1.45
2N-4870	TRANSISTOR	2	\$1.48
2N5685	TRANSISTOR	1	\$1.50
2N1605	TRANSISTOR	2	\$1.50
2N3731	TRANSISTOR	2	\$1.50
2N5335	TRANSISTOR	2	\$1.50
2N696	TRANSISTOR	2	\$1.50
2N1229	TRANSISTOR	3	\$1.50
2N4904	TRANSISTOR	3	\$1.50
2N6015	TRANSISTOR	3	\$1.50
2N6014	TRANSISTOR	4	\$1.50
2N1742	TRANSISTOR	5	\$1.50
F6015-02	TRANSISTOR	5	\$1.50
2N5991	TRANSISTOR	6	\$1.50
2N393	TRANSISTOR	7	\$1.50
2N1027	TRANSISTOR	8	\$1.50
2SA1175	TRANSISTOR	8	\$1.50
2SA671	TRANSISTOR	8	\$1.50
MJ4502	TRANSISTOR	8	\$1.50
2N1499A	TRANSISTOR	12	\$1.50
2N3553	TRANSISTOR	20	\$1.50
ECC6402	TRANSISTOR	1	\$1.54
7913	TRANSISTOR	10	\$1.55
SK3467	TRANSISTOR	1	\$1.60
2N5142	TRANSISTOR	2	\$1.60
2N3568	TRANSISTOR	3	\$1.60
2N4916	TRANSISTOR	3	\$1.60
2N1303	TRANSISTOR	4	\$1.60
2N5226	TRANSISTOR	4	\$1.60
2N5301	TRANSISTOR	5	\$1.60
2N1974	TRANSISTOR	12	\$1.60
2N5910	TRANSISTOR	16	\$1.60
2N3250	TRANSISTOR	2	\$1.64
2N4258	TRANSISTOR	2	\$1.64
151-0127-00	TRANSISTOR	2	\$1.65
TIP141	TRANSISTOR	2	\$1.79
MPSA42	TRANSISTOR	2	\$1.95
1854-0632	TRANSISTOR	4	\$2.00
MJ15022	TRANSISTOR	8	\$2.00
1851-0024	TRANSISTOR	2	\$2.05
1850-0168	TRANSISTOR	4	\$2.25
NTE383	TRANSISTOR	3	\$2.30

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1850-0164	TRANSISTOR	6	\$2.50
1850-0157	TRANSISTOR	3	\$2.75
2N1300	TRANSISTOR	2	\$2.88
2N5955	TRANSISTOR	2	\$2.88
2N1304	TRANSISTOR	19	\$2.92
IRF540	TRANSISTOR	2	\$2.95
C4934	TRANSISTOR	2	\$2.99
1850-0102	TRANSISTOR	1	\$3.00
MJE 15031	TRANSISTOR	4	\$3.00
5MP50N06-25	TRANSISTOR	3	\$3.30
2N3019	TRANSISTOR	1	\$3.35
SK3103A	TRANSISTOR	3	\$3.35
SK3044	TRANSISTOR	2	\$3.39
RFP12N20	TRANSISTOR	4	\$3.49
2N4912	TRANSISTOR	2	\$3.51
TIP42B	TRANSISTOR	2	\$3.56
2N1545	TRANSISTOR	3	\$3.93
MJE9780	TRANSISTOR	2	\$3.99
151-0407-00	TRANSISTOR	2	\$4.00
2N5877	TRANSISTOR	1	\$4.06
SK3529	TRANSISTOR	2	\$4.20
2N5583	TRANSISTOR	2	\$4.28
151-0234-00	TRANSISTOR	2	\$4.40
2SC2851	TRANSISTOR	4	\$4.50
1854-0784	TRANSISTOR	3	\$4.60
2N1183	TRANSISTOR	2	\$4.66
1854-0233	TRANSISTOR	2	\$4.80
1853-0027	TRANSISTOR	4	\$4.90
2N4900	TRANSISTOR	5	\$5.25
NTE2309	TRANSISTOR	2	\$6.45
ECG2388	TRANSISTOR	2	\$6.69
2N1554	TRANSISTOR	6	\$6.75
2SC4923	TRANSISTOR	1	\$6.99
151-0406-00	TRANSISTOR	2	\$7.00
151-0615-00	TRANSISTOR	5	\$7.00
2N1556	TRANSISTOR	2	\$7.25
151-0425-00	TRANSISTOR	2	\$7.50
2N5875	TRANSISTOR	1	\$7.56
BU407	TRANSISTOR	2	\$7.60
151-0233-00	TRANSISTOR	1	\$8.00
1855-0297	TRANSISTOR	1	\$8.00
2N1308	TRANSISTOR	3	\$8.00
1853-0440	TRANSISTOR	3	\$8.25
151-0707-00	TRANSISTOR	3	\$8.50
2N2144	TRANSISTOR	2	\$8.85
2720014	TRANSISTOR	2	\$9.00
2N3670	TRANSISTOR	2	\$9.80
2N5566	TRANSISTOR	3	\$9.80
D1849	TRANSISTOR	3	\$9.95
1855-0009	TRANSISTOR	1	\$10.00
275421251	TRANSISTOR	5	\$10.50
2SC5243	TRANSISTOR	2	\$10.99
2N5878	TRANSISTOR	2	\$11.50
1884-0058	TRANSISTOR	1	\$12.50
2SK534	TRANSISTOR	4	\$15.15
2SC3738	TRANSISTOR	1	\$15.75
151-0193-00	TRANSISTOR	1	\$16.00
151-1003-00	TRANSISTOR	1	\$24.00
151-1032-00	TRANSISTOR	2	\$25.00
151-0158-00	TRANSISTOR	3	\$25.00
151-0679-00	TRANSISTOR	1	\$1.00
151-0697-00	TRANSISTOR	1	\$1.00
1845-0404	TRANSISTOR	1	\$1.00
151-0390-00	TRANSISTOR	2	\$1.00
151-0622-00	TRANSISTOR	2	\$1.00
SK3247/234	TRANSISTOR	2	\$1.00
151-0334-00	TRANSISTOR	3	\$1.00
151-0656-00	TRANSISTOR	3	\$1.00
X302181509	TRANSISTOR	3	\$1.00
151-0678-00	TRANSISTOR	4	\$1.00
2SA1209	TRANSISTOR	10	\$1.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
151-0432-00	TRANSISTOR	11	\$1.00
9261	TRANSISTOR	3	\$2.00
X303121800	TRANSISTOR	3	\$2.00
NTE127	TRANSISTOR	5	\$2.00
2N4393	TRANSISTOR	9	\$2.00
MLM309K	TRANSISTOR	2	\$3.00
2N6051	TRANSISTOR	5	\$3.00
121997-00	TRANSISTOR	3	\$4.00
151-0696-00	TRANSISTOR	3	\$4.00
15-14508-00	TRANSISTOR	9	\$4.00
156-0393-00	TRANSISTOR	1	\$5.00
1853-0210	TRANSISTOR	1	\$5.00
1854-0419	TRANSISTOR	5	\$5.00
151-0760-00	TRANSISTOR	2	\$7.00
151-0270-00	TRANSISTOR	4	\$8.00
2N1309	TRANSISTOR 2N1309	2	\$4.58
2720005	TRANSISTOR 2N5337	2	\$8.90
18-178-1	TRANSISTOR 2N6254 SELECTED	2	\$11.40
103-365-714	TRANSISTOR 2N6714	9	\$1.00
103-365-726	TRANSISTOR 2N6726	7	\$1.00
ECG382	TRANSISTOR 2SD774	2	\$2.28
BUX88	TRANSISTOR BUX88	2	\$20.40
872990402	TRANSISTOR C3164	2	\$17.18
275420833	TRANSISTOR DUAL FET TYPE 2N3921	1	\$9.00
BUT11A	TRANSISTOR ECG2333 BU603	2	\$3.24
2SC4123	TRANSISTOR ECG2353 IKE 2060	2	\$5.35
SU2366	TRANSISTOR FET	3	\$16.00
K1197	TRANSISTOR FET	1	\$35.00
MPF6661	TRANSISTOR FIELD EFFECT	1	\$1.12
2SC2233	TRANSISTOR HORIZON OUTPUT ECG 51	1	\$3.97
ECG2331	TRANSISTOR HORIZONTAL W/DAMPER D2125 LJF1008	4	\$6.98
HPA100R	TRANSISTOR HORIZONTAL OUTPUT	1	\$19.99
C4747	TRANSISTOR HORIZONTAL POWER	2	\$7.91
NTE2533	TRANSISTOR HPA150	3	\$19.70
ECG2365	TRANSISTOR HV HORIZONTAL MJF16212 APM RGB21 2SC4288	2	\$18.50
IRFPF40	TRANSISTOR IRFPF40 FET	1	\$7.99
151-1025-00	TRANSISTOR JFET N CHANNEL	5	\$5.00
151-0367-00	TRANSISTOR MADE BY TEKTRONIX	3	\$8.00
400085	TRANSISTOR MJ12005	1	\$12.34
103-366-392	TRANSISTOR MPF4392	12	\$3.00
2SA1206	TRANSISTOR NO SUBSTITUTE	23	\$1.00
MPSW06	TRANSISTOR NPN	4	\$0.30
TIP 101	TRANSISTOR NPN DARLINGTON	2	\$0.60
27542126	TRANSISTOR NPN DUAL MONOLITHIC	3	\$11.40
ECG2501	TRANSISTOR NPN SI HI FREQ VIDEO OUTPUT	1	\$2.81
151-0453-00	TRANSISTOR PNP	5	\$0.40
RFM15N15	TRANSISTOR POWER MOS/FET M990	2	\$5.69
151-0347-00	TRANSISTOR REF Q926	2	\$4.00
RX270P55901	TRANSISTOR REGULATOR 2SD921 D921 ECG2307 MBI	3	\$6.45
151-0432-00	TRANSISTOR TEK 4014	5	\$0.25
151-0465-00	TRANSISTOR TEK4014	2	\$1.00
151-0169-00	TRANSISTOR TEK4014-1	10	\$2.25
TIP29C	TRANSISTOR TIP29C 1 AMP 100 VCEO 30W PD	2	\$0.32
ECG107	TRANSISTOR UHF C1730 NTE107 SK3293	4	\$1.68
MTP5N05	TRANSISTOR (FET) T0-220 PACKAGE	2	\$1.20
151-0134-00	TRANSISTOR 151-0134-00 TEK 4014	3	\$0.80
151-0183-00	TRANSISTOR 151-0183-00	8	\$1.95
151-0188-00	TRANSISTOR 151-0188-00 TEK 4631	1	\$3.00
151-0256-00	TRANSISTOR 151-0256-00	4	\$8.00
151-0292-00	TRANSISTOR 151-0292-00 TEK 4631 NO LONGER AVAILABLE	2	\$0.80
151-0311-01	TRANSISTOR 151-0311-01 TEK 4014-1	5	\$2.10
151-0333-00	TRANSISTOR 151-0333-00	4	\$0.55
151-0373-00	TRANSISTOR 151-0373-00 TEK 4631	2	\$3.70
151-0466-00	TRANSISTOR 151-0466-00 NPN TEK4014	5	\$1.00
151-0522-00	TRANSISTOR 151-0522-00 TEK4631	2	\$5.00
151-0710-00	TRANSISTOR 151-0710-00	4	\$0.40
151-1005-00	TRANSISTOR 151-1005-00 TEK4601	3	\$0.60
151-1036-00	TRANSISTOR 151-1036-00 TEK 4631	3	\$9.25
MJ2500	TRANSISTOR 15-11282-00 MJ2500	3	\$4.04
MJ3000	TRANSISTOR 15-11349-00 MJ3000	13	\$3.20
1850-0062	TRANSISTOR 1850-0062	4	\$14.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
1853-0491	TRANSISTOR 1853-0491	2	\$4.90
1854-0634	TRANSISTOR 1854-0634 HP85	6	\$1.25
ECG324	TRANSISTOR 2A NPN	2	\$4.00
2N1132	TRANSISTOR 2N1132	2	\$2.22
2N1302	TRANSISTOR 2N1302	2	\$1.87
2N1307	TRANSISTOR 2N1307	3	\$1.50
2N1373	TRANSISTOR 2N1373	3	\$2.47
2N1502	TRANSISTOR 2N1502	4	\$14.00
2N1544	TRANSISTOR 2N1544 ECG179 T-PNP GE AF AMP T28	2	\$3.50
2N1560	TRANSISTOR 2N1560	1	\$6.00
2N1671	TRANSISTOR 2N1671 ECG6400B UNIJUNCTION SI S1	2	\$12.00
2N2189	TRANSISTOR 2N2189	3	\$5.85
2N2218	TRANSISTOR 2N2218	1	\$1.95
4901-02-2191	TRANSISTOR 2N2219A	3	\$1.96
2N2222A	TRANSISTOR 2N2222A SK3444 2N3565 2N3725 2N2369 2N3605 2N4275	0	\$0.72
2N2646	TRANSISTOR 2N2646	2	\$3.50
2N2647	TRANSISTOR 2N2647	2	\$6.43
2N2714	TRANSISTOR 2N2714	1	\$0.99
2N2894	TRANSISTOR 2N2894 SP .36W 12VCB 40H150	3	\$0.31
2N2905	TRANSISTOR 2N2905 SK3025 ECG129	4	\$2.22
2N2906	TRANSISTOR 2N2906 2N3905 NTE159 ECG159 PNP AF MED POWER PREAMP DRIVER	8	\$0.84
2N3054	TRANSISTOR 2N3054	2	\$0.97
2N3055	TRANSISTOR 2N3055 POWER	3	\$1.39
2N3251A	TRANSISTOR 2N3251A	2	\$1.64
2N3415	TRANSISTOR 2N3415 ECG123A T-NPN SI AF RF AMP T2	1	\$0.49
2N3416	TRANSISTOR 2N3416	5	\$0.35
2N3440	TRANSISTOR 2N3440 151-0150-00 SN 1W 300VCB 40H160	3	\$3.35
2N3441	TRANSISTOR 2N3441 POWER	3	\$1.99
2N3567	TRANSISTOR 2N3567 ECG123A T-NPN SI AF RF AMP T2	6	\$1.26
2N3640	TRANSISTOR 2N3640	2	\$1.64
2N3643	TRANSISTOR 2N3643	3	\$0.73
2N3644	TRANSISTOR 2N3644	3	\$1.64
2N3646	TRANSISTOR 2N3646	6	\$1.10
2N3702	TRANSISTOR 2N3702	2	\$1.47
2N3704	TRANSISTOR 2N3704	1	\$0.35
2N3715	TRANSISTOR 2N3715	4	\$1.55
2N3771	TRANSISTOR 2N3771	5	\$2.04
2N3773	TRANSISTOR 2N3773 SK6260	7	\$3.65
2N3789	TRANSISTOR 2N3789 ECG219 T-PNP SI AF PO SW T28	4	\$1.78
2N3859	TRANSISTOR 2N3859A	3	\$1.42
2N3866	TRANSISTOR 2N3866 ECG311 T-NPN VHF UFH DR AMP PO PD 5W T6	3	\$0.90
2N3904	TRANSISTOR 2N3904 151-0190-00 ECG123AP 2N5210	4	\$1.25
2N3906	TRANSISTOR 2N3906 ECG159 SK3466	10	\$0.13
2N4037	TRANSISTOR 2N4037 SK3025 ECG NOT A SUITABLE SUBSTITUTE	0	\$0.70
2N404	TRANSISTOR 2N404	21	\$9.69
151-0220-00	TRANSISTOR 2N4122 151-0220-00	4	\$1.60
2N4123	TRANSISTOR 2N4123	5	\$0.07
2N4124	TRANSISTOR 2N4124	4	\$0.11
2N4125	TRANSISTOR 2N4125	5	\$0.20
2N4126	TRANSISTOR 2N4126	2	\$0.08
2N4220	TRANSISTOR 2N4220	2	\$1.93
2N4248	TRANSISTOR 2N4248	2	\$1.64
2N4250	TRANSISTOR 2N4250	4	\$1.64
2N4289	TRANSISTOR 2N4289	5	\$1.64
2N4393	TRANSISTOR 2N4393	5	\$1.00
2N4401	TRANSISTOR 2N4401	3	\$0.16
2N441	TRANSISTOR 2N441	2	\$11.00
2N4410	TRANSISTOR 2N4410	9	\$0.80
2N442	TRANSISTOR 2N442	2	\$16.58
151-0515-01	TRANSISTOR 2N4441 151-0515-01 SCR	4	\$3.30
2N4442	TRANSISTOR 2N4442 ECG5444 SCR 200 VRM 8.0A Z39	2	\$4.45
151-0228-00	TRANSISTOR 2N4888	2	\$4.00
2N4918	TRANSISTOR 2N4918	13	\$0.56
2N4922	TRANSISTOR 2N4922	6	\$1.07
27242070	TRANSISTOR 2N5019 NEFF	2	\$2.00
15-10969-00	TRANSISTOR 2N5038 DEC PDP11/04	3	\$4.39
2N5060	TRANSISTOR 2N5060	6	\$0.20
2N5086	TRANSISTOR 2N5086	2	\$1.64
2N5087	TRANSISTOR 2N5087 (NTE159)	6	\$1.29
2N5160	TRANSISTOR 2N5160	2	\$2.22
2N5302	TRANSISTOR 2N5302	5	\$1.86

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
2N5320	TRANSISTOR 2N5320 NO LONGER AVAILABLE	1	\$1.76
2N5322	TRANSISTOR 2N5322	4	\$1.50
2N5459	TRANSISTOR 2N5459 TO92 CASE	3	\$2.66
ECG451	TRANSISTOR 2N5485 SK9164	2	\$1.57
2N5772	TRANSISTOR 2N5772	4	\$0.67
1853-0344	TRANSISTOR 2N5876	2	\$4.30
2N6027	TRANSISTOR 2N6027 HAZEL 1500 CRT	4	\$0.60
2N6040	TRANSISTOR 2N6040	2	\$0.65
2N6045	TRANSISTOR 2N6045	4	\$0.74
2N6308	TRANSISTOR 2N6308	1	\$3.56
2N6547	TRANSISTOR 2N6547 151791000 15-17910-00	3	\$6.42
2N6675	TRANSISTOR 2N6675 RCA	5	\$6.71
2N697	TRANSISTOR 2N697	13	\$3.55
2N705	TRANSISTOR 2N705	3	\$4.60
2N964	TRANSISTOR 2N964	2	\$5.85
CP260P02302	TRANSISTOR 2SA957	2	\$25.45
ECG2344	TRANSISTOR 2SB727 ECG2344 POWER DARLINGTON PNP SILICON	2	\$2.32
X301079400	TRANSISTOR 2SB794	9	\$2.96
272018-01	TRANSISTOR 2SC2979	3	\$5.75
ECG369	TRANSISTOR 2SC2979	1	\$6.25
151-0378-00	TRANSISTOR 2SC3178	1	\$10.00
2SC3261	TRANSISTOR 2SC3261 ECG2309 SK9488 SI NPN HV HI SPEED.SWITCHING	1	\$6.48
35087700	TRANSISTOR 2SC3685	1	\$21.93
2SC3833	TRANSISTOR 2SC3833	2	\$11.19
2SC3883	TRANSISTOR 2SC3883	1	\$7.85
QX260P44701	TRANSISTOR 2SD1426	3	\$3.00
CP260P01501	TRANSISTOR 2SD1428	1	\$13.36
8-729-805-07	TRANSISTOR 2SD1887 GDM1950 GDM1952	2	\$19.61
2324001	TRANSISTOR 2SK352 HITACHI AMDEK	9	\$1.00
LM385Z-1.2	TRANSISTOR 385Z TOUCHSCREEN Q2	2	\$3.49
2N6397	TRANSISTOR 400V 12A TO-220 CASE USED EG&G 300	5	\$6.00
910536	TRANSISTOR 910536 ADM11 SLA100XL	2	\$9.50
ECG316	TRANSISTOR A430 NPN	3	\$3.30
BC237B	TRANSISTOR BC237B	3	\$3.11
BG307B	TRANSISTOR BG307B	3	\$2.76
BU406	TRANSISTOR BU406 IBM 5151 POWER MOTOROLA	2	\$3.00
BU806	TRANSISTOR BU806	4	\$5.90
BU807	TRANSISTOR BU807	2	\$2.59
ECG2311	TRANSISTOR BUS 12A MECHANICAL INTERCHANGEABILITY TO-3 & TO0218 CASE	3	\$15.63
BUX-32B	TRANSISTOR BUX-32B	2	\$4.80
SK3929	TRANSISTOR C2073 SK3929	2	\$2.92
ECG2325	TRANSISTOR C2979 NPN	2	\$3.13
2SC3178	TRANSISTOR C3178	2	\$1.13
HV82	TRANSISTOR C9227 MOSFET	2	\$10.95
2N1305	TRANSISTOR CAN	3	\$4.50
MD918	TRANSISTOR CAN	1	\$12.33
1854-0071	TRANSISTOR CP4071 4071	3	\$6.00
SK3896	TRANSISTOR D1024 SK3896 ECG261	2	\$1.95
ECG375	TRANSISTOR D1138 SK9118 2SC2344	3	\$2.92
SK3202	TRANSISTOR D40D10	4	\$2.35
SK3181A	TRANSISTOR D45E3	2	\$3.10
SK3849	TRANSISTOR D468C NPN	2	\$1.84
ECG11	TRANSISTOR D655 ECG11 SK3250 NPN SI	2	\$1.50
SK3858	TRANSISTOR DARLINGTON 3858	1	\$8.73
2SK352	TRANSISTOR DELETE AT ZERO BALANCE	1	\$31.48
275-42038-5	TRANSISTOR DUAL	4	\$11.40
103-647-008	TRANSISTOR DUAL	1	\$21.30
27542023	TRANSISTOR DUAL FET NEFF	2	\$7.80
27542127	TRANSISTOR DUAL PNP	11	\$9.00
151-0361-00	TRANSISTOR DUAL TEK 4631	5	\$4.00
2N1374	TRANSISTOR ECG102 T-PNP GE AF PREAMP DR PO T5	2	\$3.30
2N956	TRANSISTOR ECG123A	2	\$1.47
SK3024	TRANSISTOR ECG128 2N2102 2N2219 2N3498	13	\$2.03
SK9422	TRANSISTOR ECG2302 TV HORIZONTAL DEFL. NPN 2SD1428 SK9422	2	\$8.38
SK4919	TRANSISTOR ECG2310 SK4919 NPN SI	1	\$7.90
SK3188	TRANSISTOR ECG241	1	\$2.42
SK9085	TRANSISTOR ECG379 SK9085 C2335 2SC2335 BU407	3	\$10.34
ECG94	TRANSISTOR ECG94 HV CELCO CFR4000 SK9141	2	\$3.00
653-100022-001	TRANSISTOR EP2850	4	\$17.00
IRF9530	TRANSISTOR FET	5	\$2.50
MJW16012	TRANSISTOR FET	2	\$3.75

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
NTE66	TRANSISTOR FET	3	\$8.20
NTE2311	TRANSISTOR FET	1	\$15.15
393314	TRANSISTOR FET MANUFACTURED BY FLUKE	1	\$4.00
2720009	TRANSISTOR FET J-202	3	\$5.65
29042054-1	TRANSISTOR FET NEFF	2	\$2.25
U1898	TRANSISTOR FET.	2	\$2.97
2SC1166	TRANSISTOR HORIZON DRIVE ECG 289A	2	\$1.64
ECG2300	TRANSISTOR HORIZONTAL	1	\$7.52
2SC3897	TRANSISTOR HORIZONTAL NPN	4	\$7.49
1855-0249	TRANSISTOR HP2250	3	\$8.50
1854-0782	TRANSISTOR HP9845	1	\$15.00
IRF640	TRANSISTOR IRF640 TMOS POWER	1	\$7.73
IRF740	TRANSISTOR IRF740 TMOS POWER MOSFET SLA100XL	0	\$0.94
IRF840	TRANSISTOR IRF840	2	\$3.89
IRF9620I	TRANSISTOR IRF9620	1	\$3.86
151-1078-00	TRANSISTOR JFET N-CHANNEL	3	\$1.00
ECG934	TRANSISTOR LAS16CB SK9342 REGULATOR 13.8V TVI 950	1	\$18.40
LM336Z-2.5	TRANSISTOR LM336 ZENER 2.5V	4	\$2.68
LM337	TRANSISTOR LM337 1826-0523	3	\$2.25
151-0777-00	TRANSISTOR LT1817 NPN	3	\$13.75
LT1839	TRANSISTOR LT1839	4	\$2.89
2N6338	TRANSISTOR MATCHED PAIR NPN SILICON	1	\$25.14
ECG6087	TRANSISTOR MBR2545CT TEK 4107	2	\$5.85
SK3952	TRANSISTOR MCB100-7 THYRISTOR ECG5406	1	\$4.05
400013	TRANSISTOR MJ2955A ECG219 SK3173	1	\$6.97
SK9134	TRANSISTOR MJ802 SK9134 KENNEDY 9000	1	\$7.90
151-0414-00	TRANSISTOR MJE1092 SK3979	2	\$3.35
151-0415-00	TRANSISTOR MJE1102 SK3978 151-0415-00	2	\$2.65
MJE13005	TRANSISTOR MJE13005	4	\$2.11
151-0349-00	TRANSISTOR MJE2801 SK3188A	2	\$3.00
MJE2955	TRANSISTOR MJE2955	3	\$1.66
MJE3055T	TRANSISTOR MJE3055T TOSH DSCAN	9	\$0.45
MJE3439	TRANSISTOR MJE3439	2	\$0.65
653-200010-001	TRANSISTOR MJE5985	5	\$6.00
VN0104N3	TRANSISTOR MOSFET	19	\$1.00
ECG2377	TRANSISTOR MOSFET N-CH	2	\$11.39
2N5638	TRANSISTOR MOTOROLA	4	\$0.34
MPSA05	TRANSISTOR MPSA05 SLA100XL	2	\$0.25
MPSA14	TRANSISTOR MPSA14	2	\$0.12
SK9459	TRANSISTOR MPSA18 SK9459 MPSA18 ECG47	5	\$1.16
MPSA43	TRANSISTOR MPSA43 ECG287	3	\$0.32
MPSA55	TRANSISTOR MPSA55 A55	10	\$0.20
MPSA93	TRANSISTOR MPSA93	2	\$0.40
15-16490-00	TRANSISTOR MPSU05 NPN 10W S1 2A	9	\$1.68
SK3199	TRANSISTOR MPSU07 SK3199 NPN	5	\$2.87
MPSU51	TRANSISTOR MPSU51	6	\$1.40
SK9503	TRANSISTOR MTP10N05 MOSFET N-CHANNEL	2	\$3.30
MTP1N95	TRANSISTOR MTP1N95 MTP2N90 TMOS POWER	1	\$5.05
MTP6N60	TRANSISTOR MTP6N60 TMOS POWER	2	\$7.68
290420543	TRANSISTOR NEFF	12	\$2.40
27242033	TRANSISTOR NEFF	3	\$5.00
TIP31B	TRANSISTOR NPN	6	\$0.62
ECG108	TRANSISTOR NPN	2	\$1.38
ECG49	TRANSISTOR NPN	3	\$3.65
NTE2353	TRANSISTOR NPN	3	\$5.35
151-0103-00	TRANSISTOR NPN 151-0103-00	2	\$3.00
SK3245	TRANSISTOR NPN AF PREAMP T-017 PIN OUT	3	\$0.45
SK10137	TRANSISTOR NPN DARLINGTON 2SD1308 ECG2326	2	\$3.53
151-0232-00	TRANSISTOR NPN DUAL NS7348	2	\$20.00
MPS2222A	TRANSISTOR NPN ECG123AP SK3854	3	\$1.25
400170	TRANSISTOR NPN HFE 7.5 10AMP 10A 175W 175WATT 800V 800V OLT	1	\$5.77
1854-0903	TRANSISTOR NPN HP7225A	1	\$6.50
ECG53	TRANSISTOR NPN HV 2N6677 SK9262 ECG53 MOD 7870	2	\$9.00
ECG229	TRANSISTOR NPN MP3H34	2	\$1.88
511-MJE172	TRANSISTOR NPN POWER	2	\$0.48
2N6037	TRANSISTOR NPN POWER NTE253	2	\$0.51
SK3039	TRANSISTOR NPN SI	4	\$3.30
SK3449	TRANSISTOR NPN SK3449 ECG297	2	\$1.61
ECG99	TRANSISTOR NPN SK9110 2N6686	2	\$30.00
2SD1173	TRANSISTOR NPN SK9411 HORIZONTAL	1	\$11.95
C3597	TRANSISTOR NPN VIDEO AMP	2	\$2.15

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
ECG388	TRANSISTOR NPN-SILICON HIGH POWER AF AMP MJ15015	4	\$7.00
ECG216	TRANSISTOR NPN-SILICON HIGH SPEED DRIVER 2N6715	3	\$1.22
2N2048	TRANSISTOR NTE160	1	\$2.80
152-0454-00	TRANSISTOR PHOTO	2	\$10.00
2N3741	TRANSISTOR PNP 2N3741 T-PNP SI PO AND SW PD 40W T41	2	\$2.60
TIP107	TRANSISTOR PNP 2N6042	2	\$1.02
151-0657-00	TRANSISTOR PNP 4111 GMA302	5	\$6.00
1853-0507	TRANSISTOR PNP HP7225A	2	\$7.00
LT5839	TRANSISTOR PNP LT5839	3	\$3.25
2N2907	TRANSISTOR PNP SILICON LOW POWER Q1497 T018 CASE 2N2907A	3	\$1.77
BFQ252	TRANSISTOR PNP VIDEO AMPLIFIER	1	\$1.00
ECG332	TRANSISTOR PNP-SILICON AF POWER REGULATOR SWITCHIN MTE332G TIP42C SK9236	2	\$3.30
SK3189A	TRANSISTOR POWER 3189	1	\$5.25
2N6254	TRANSISTOR POWER AMP TO-3 PACKAGE 2N3772 ECG284 NTE181	4	\$7.90
ECG2343	TRANSISTOR POWER DARLINGTON NPN SILICON	1	\$2.91
SK3930	TRANSISTOR POWER DRIVER PNP 2SA957 SK3930 ECG398	2	\$3.89
MJ13091	TRANSISTOR POWER ECG2319 NPN MJ13091	3	\$6.84
SK3111	TRANSISTOR POWER SK3111	1	\$10.45
SK3559	TRANSISTOR POWER SK3559	3	\$9.37
TIP122	TRANSISTOR POWER TIP122	4	\$0.36
TIP41C	TRANSISTOR POWER TIP41C 2N6101	8	\$0.84
653-600012-001	TRANSISTOR Q2T2222 MPQ2222	5	\$7.00
SK3897	TRANSISTOR REPLACEMENT FOR B974 OR 2SB974	2	\$2.55
151-0451-00	TRANSISTOR REPLACES 151-0160-00	3	\$2.35
1854-0290	TRANSISTOR SET OF 4	1	\$39.50
SK3004	TRANSISTOR SK3004 ECG102A	1	\$1.98
2N2138	TRANSISTOR SK3009 ECG121	1	\$16.01
SK3027	TRANSISTOR SK3027	3	\$6.50
SK3054	TRANSISTOR SK3054	2	\$3.17
SK3083	TRANSISTOR SK3083	2	\$3.56
SK3115	TRANSISTOR SK3115 NPN ECG165	3	\$13.50
SK3180	TRANSISTOR SK3180 NPN SI POWER DARLINGTON ECG263	2	\$2.56
SK3190	TRANSISTOR SK3190 2N4923 ECG184	2	\$2.66
MPSU56	TRANSISTOR SK3200 MPSU56	2	\$5.54
SK3219	TRANSISTOR SK3219	3	\$3.60
SK3220	TRANSISTOR SK3220	4	\$3.00
SK3244	TRANSISTOR SK3244 NPN TELEVIDEO 970	5	\$1.05
SK3717	TRANSISTOR SK3717 ECG121 NTE121 P4M PNP	1	\$12.14
SK3747/157	TRANSISTOR SK3747 157	2	\$2.30
SK3945	TRANSISTOR SK3945 NPN ECG327	3	\$19.55
ECG254	TRANSISTOR SK3997	2	\$3.57
SK534	TRANSISTOR SK534 ECG5252A	2	\$9.15
SK9041	TRANSISTOR SK9041 ECG373	5	\$1.98
SK9042	TRANSISTOR SK9042 DEQ VT241 ECG374 B1109	3	\$2.00
ECG931	TRANSISTOR SK9067 REGULATOR 5V TO-3	1	\$12.45
SK9229	TRANSISTOR SK9229 AMPLIFIER 2SC945P	4	\$0.94
ECG399	TRANSISTOR SK9352 2SC1921 ECG399 HV VIDEO OUTPUT	2	\$2.91
SK9440	TRANSISTOR SK9440	2	\$8.73
SK9509	TRANSISTOR SK9509 POWER FET IRF622 ECG2385	3	\$6.56
151-1006-00	TRANSISTOR SPF3035 4371006 FET	1	\$1.10
2SC3545	TRANSISTOR T43 SMD SO T0853 NPN	2	\$1.91
TDA1670A	TRANSISTOR TDA1670A	3	\$6.16
151-0221-00	TRANSISTOR TEK 4014	2	\$0.75
151-0269-00	TRANSISTOR TEK 4014	4	\$2.85
151-0210-00	TRANSISTOR TEK 4014-1	5	\$2.35
151-0140-00	TRANSISTOR TEK 4014-1	3	\$2.00
151-0781-00	TRANSISTOR TEK 4109	4	\$11.00
151-0439-00	TRANSISTOR TEK 4114	2	\$2.00
151-0806-00	TRANSISTOR TEK 4129	5	\$6.75
151-0337-00	TRANSISTOR TEK 4631	4	\$2.95
151-0334-00	TRANSISTOR TEK 4631 HCU	4	\$0.90
151-0468-00	TRANSISTOR TEK TERM	2	\$7.00
151-0470-00	TRANSISTOR TEK TERM	1	\$10.00
TIP105	TRANSISTOR TIP105	14	\$1.05
TIP121	TRANSISTOR TIP121 SK3180	3	\$1.60
TIP127	TRANSISTOR TIP127	6	\$0.66
TIP147	TRANSISTOR TIP147	5	\$1.98
TIP30	TRANSISTOR TIP30	2	\$1.90
TIP-31A	TRANSISTOR TIP31A	2	\$3.37
TIP-32A	TRANSISTOR TIP-32A	7	\$0.42
TIP50	TRANSISTOR TIP50	4	\$0.80

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
151-0623-00	TRANSISTOR TIP52 +15V REGULATOR	3	\$3.05
1RF830	TRANSISTOR TMOS	5	\$1.55
ECG2354	TRANSISTOR T-NPN HORIZONTAL HV T03 2SC3688 C3688 MBI	5	\$8.26
35595008	TRANSISTOR TRIAC BCR 6AM-8L ECG5608 SK6708	1	\$7.48
2N4893	TRANSISTOR UNIUNION	1	\$5.98
151-0508-00	TRANSISTOR VTT	2	\$3.00
2SA1462	TRANSISTOR Y33 SMD SO T0853 PNP	2	\$2.55
09845-67962	TRANSPORT ASSY	1	\$700.00
970-1030	TRAY MANUAL PAPER FEED	3	\$9.00
436-0115-00-CP	TRAY PAPER	1	\$75.00
RF1-0985-000CN	TRAY LOWER REAR OUTPUT	1	\$28.50
970-1028	TRAY OUTPUT PAPER TRAY COPY LASERWRITER+ APPLE	0	\$9.90
8-RA1-0955-000	TRAY PRINT AUXILLARY QMS PSJET+	1	\$6.82
BCR16CM 8L	TRIAC	1	\$3.07
NTE5652	TRIAC 400V 2.5A	1	\$6.90
1884-0218	TRIAC 600V 40A 2N5446	1	\$29.70
SK3533	TRIAC 400V 10A ECG5635	2	\$4.41
SK3508	TRIAC 400V 10A ECG5675	2	\$9.00
SK3659	TRIAC 400V 15A SI ECG56006	2	\$4.90
MAC210-8	TRIAC 600V 10A ECG5637	2	\$4.41
2N-6348	TRIAC 600V 15A ECG56008 SK3660	2	\$0.86
6CB6A	TUBE	3	\$0.89
6C4WA	TUBE	4	\$1.91
6AU6	TUBE	3	\$2.37
12BH7A	TUBE	5	\$2.51
5651WA	TUBE	1	\$2.53
6U8A	TUBE	2	\$2.77
5654	TUBE	4	\$3.70
5727/2D21	TUBE	2	\$3.78
6BL8	TUBE	1	\$3.99
6X4	TUBE	2	\$4.45
0B2WA	TUBE	8	\$4.45
6SL7WGT	TUBE	1	\$4.49
5Y3WGTA	TUBE	3	\$4.73
6CW5	TUBE	4	\$5.25
5726/6AL5	TUBE	2	\$5.59
6AK6	TUBE	1	\$5.94
12AU6	TUBE	3	\$5.99
6AU5	TUBE	1	\$7.12
0A2WA	TUBE	2	\$8.30
6DJ8	TUBE	1	\$9.30
5V4GA	TUBE	2	\$9.40
6BQ7A	TUBE	3	\$10.92
6CL6	TUBE	2	\$11.90
5AR4	TUBE	2	\$19.50
6CW4	TUBE	2	\$22.50
7119	TUBE	1	\$24.00
8393	TUBE	2	\$34.65
8056	TUBE	3	\$40.00
7586	TUBE	1	\$52.50
B5092/NL8421	TUBE	2	\$55.00
NL5870S	TUBE	2	\$69.95
B5441/NL5441	TUBE	2	\$87.75
154-0038-00	TUBE 12AL5	5	\$4.55
12AT6	TUBE 12AT6	4	\$2.50
6189/12AU7	TUBE 12AU7	3	\$1.73
12AV6	TUBE 12AV6	5	\$2.40
12AV7	TUBE 12AV7	6	\$2.68
12AY7	TUBE 12AY7	5	\$6.60
12B4	TUBE 12B4A	7	\$8.45
12BE6	TUBE 12BE6	1	\$1.62
12BY7A	TUBE 12BY7A	4	\$6.96
12AL5	TUBE 157-0075-00	11	\$6.25
12AT7	TUBE 157-0118-00	6	\$6.42
154-0051-00	TUBE 5642	1	\$7.25
CK5686	TUBE 5686 CK5686	3	\$2.85
6AS6/5725	TUBE 5725 6AS6W	6	\$4.05
6BE6	TUBE 5750 NO LONGER AVAILABLE	2	\$8.00
5751	TUBE 5751	4	\$1.02
5R4GB	TUBE 5R4GB	3	\$5.90
5U4GB	TUBE 5U4GB	1	\$3.92



## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
6080	TUBE 6080WC	3	\$19.91
6146	TUBE 6146W	4	\$2.84
6922	TUBE 6922	3	\$17.95
6AB4	TUBE 6AB4	2	\$3.84
6AG5	TUBE 6AG5	2	\$2.46
6AH6	TUBE 6AH6	2	\$5.38
6AK5	TUBE 6AK5	4	\$7.75
6005W(6AQ5)	TUBE 6AQ5	8	\$2.27
6AQ6	TUBE 6AQ6	5	\$1.60
6AS7G	TUBE 6AS7GA	2	\$12.41
6AV5GA	TUBE 6AV5GA	2	\$10.80
6AW8A	TUBE 6AW8A	3	\$6.78
6AX5GT	TUBE 6AX5GT	4	\$2.68
6BC4	TUBE 6BC4	2	\$7.20
6BC7	TUBE 6BC7	6	\$5.82
6BH6	TUBE 6BH6	3	\$7.80
6BQ5	TUBE 6BQ5 EL84	4	\$3.94
6BQ6GTB	TUBE 6BQ6GTB 6CU6	1	\$1.85
6CZ5	TUBE 6CZ5	3	\$8.83
154-0187-10	TUBE 6DJ8 "NO LONGER AVAILABLE"	1	\$10.50
6DK6	TUBE 6DK6	9	\$4.32
6DQ5	TUBE 6DQ5	3	\$3.50
6EJ7/EF184	TUBE 6EJ7 EF184	2	\$3.16
6H6	TUBE 6H6	2	\$2.90
6J5WGT	TUBE 6J5WGT NO LONGER AVAILABLE	2	\$8.00
6J6	TUBE 6J6 NO LONGER AVAILABLE	4	\$1.73
6J7	TUBE 6J7	2	\$8.06
6L6WGC	TUBE 6L6WGC	2	\$4.56
6L7	TUBE 6L7	6	\$2.10
6N7	TUBE 6N7	2	\$2.76
6SN7	TUBE 6NS7WGTA	4	\$7.87
6V6GT	TUBE 6V6GTA	2	\$6.96
7199	TUBE 7199	8	\$3.32
154-0307-00	TUBE 7233	1	\$15.00
154-0413-00	TUBE 8416	3	\$25.00
B5991/NL8422	TUBE 8422 NLS8422 B5991	2	\$60.00
37776	TUBE BALLAST	2	\$1.60
TC 1/8MPT-063 R	TUBE CONNECTOR	6	\$3.60
TC 1/8MPT-040 R	TUBE CONNECTOR	20	\$3.90
54-01-1155A	TUBE CONNECTOR 10-32 TO .063	54	\$0.75
154-0739-01	TUBE CRT	1	\$40.00
70-17364-00	TUBE CRT DEC VT100	1	\$106.68
M34JCA30X53	TUBE CRT SBP 4095 EGA 14"	1	\$189.00
70-21861-01	TUBE CRT VR260 WITH BEZEL	2	\$165.00
70-18349-01	TUBE CRT VTIXX MONITOR	1	\$85.00
115N060T	TUBE DELAY RELAY	1	\$76.13
6N045T	TUBE DELAY RELAY 6N045T	2	\$5.25
DR2020	TUBE DR2020	4	\$19.50
6SR7	TUBE ELECTRON	2	\$1.70
12AX7	TUBE ELECTRON	0	\$1.75
70-17364-00	TUBE ELECTRON CRT DEQ VT100	1	\$50.00
1941-0006	TUBE ELECTRON HP 45-B	1	\$65.00
TUG-M4	TUBE G-M TUBE FOR THE HP-270 PROBE	1	\$90.00
B-6034	TUBE NIXIE	62	\$21.00
5030-000	TUBE RG-75K	3	\$190.00
A81 - C90X	TUBE SIEMENS GAS 1 PACK OF 100 EA.	70	\$2.70
DV-4D	TUBE VACUUM	2	\$48.00
DV-4AM	TUBE VACUUM	1	\$54.00
DV-8M	TUBE VACUUM	1	\$98.00
DV-6M	TUBE VACUUM GAUGE TUBE	2	\$55.00
DV-3M	TUBE VACUUM GAUGE TUBE	3	\$70.00
DV-5M	TUBE VACUUM GAUGE TUBE	1	\$103.00
1940-0013	TUBE Z82R7	1	\$3.75
TC 063-X	TUBING CROSS	23	\$3.90
TC 040-X	TUBING CROSS	15	\$4.60
H06492-05	TUBING MICRO-LINE 1 ROLL	2	\$63.90
H06492-03	TUBING MICRO-LINE 1 ROLL	2	\$65.00
NYLN-063	TUBING NYLON 500FT ROLL	3	\$45.00
NYLN-040	TUBING NYLON 500FT ROLL	1	\$75.00
44P-1/4	TUBING POLYFLO TUBING ISSUE PER FT. BOX=1000FT	1950	\$0.13
TC 040-063 R	TUBING REDUCER	26	\$3.45

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
TC 040-T	TUBING TEE	13	\$3.30
TC 063-T	TUBING TEE	22	\$3.60
AG017U	TUBING TYGON R4040A 1/4"X 3/8"	76	\$0.64
AG012U	TUBING TYGON R4040A 3/16"X 5/16"	35	\$0.57
URTH-040	TUBING URETHANE	500	\$0.20
4020-231-5886	TWINE WAXED	2	\$11.43
SAN37001	ULTRA FINE POINT MARKER PEN FOR WRITING ON LARC CALIBRATION STICKERS.	19	\$0.62
885-3266	UNINSULATED BANANA PLUG WITH SCREW. 8.32X6.4. SOLD IN PACKAGES OF 10. ORDER 1 PACKAGE. ALLIED	8	\$1.80
MODACS	UNIT MODACS	1	\$20,352.00
09F1984	V130LA20C METAL OXIDE VARISTOR	0	\$0.95
9376K146	VACCUUM PUMP FEET CYNDRICAL NEOPRENE +INCH VIBRATION CONTROL MOUNT	8	\$1.90
60525K13	VACCUUM PUMP FEET MOUNT VIBRATION CONTROL PVC	8	\$1.91
HVC1	VACUUM CLEANER HOOVER	1	\$200.00
DV-6R	VACUUM GAUGE TUBE	2	\$70.00
DV-36	VACUUM GAUGE TUBE	1	\$235.00
496AG	VACUUM MMM MODEL 496AG LASER PRINTER TONER	1	\$200.00
2M182	VACUUM MOTOR	2	\$72.65
1R236	VACUUM MOTOR BRUSH	4	\$5.89
DV-310	VACUUM TUBE	1	\$177.00
214-3932-00	VALVE AIR TEK 4692	1	\$512.00
40050139	VALVE DISK	2	\$10.92
768928	VALVE REBUILD KIT	1	\$14.00
562B-1M-10	VALVE RELIEF VALVE 10 PSIG	1	\$25.00
81-108K	VALVE SEAT VITON	2	\$40.00
41-2972	VALVE SPRING WELCH 8814A VACUUM PUMP	2	\$3.22
61-2118A	VALVE VITON	3	\$9.81
4L410	V-BELT	1	\$4.57
5M-500	V-BELT (GATES)	2	\$11.75
176-001	VENT VALVE ASSEMBLY	1	\$36.00
6-003-0321	VERT CHOKE BALL ELEX	2	\$9.17
46F2051	VERTICAL PIN HEADER	2	\$0.79
104228-001	VERTICAL POSITION INDICATOR	1	\$5.00
90F4443	VERTICAL UNSHROUDED BREAKAWAY HEADERS HEADER	3	\$5.13
257594-001	VFU B300 PRINTER	1	\$625.06
132325-00	VIDEO MONITOR BOARD RB955	2	\$85.00
B1022	VIEWER MAGNETIC CARDKEY	1	\$78.00
MICRO 44	VIEWER MICROFILM	1	\$200.00
61-2118	VITON VALVE.WELCH 8814A VACUUM PUMP	4	\$9.81
07470-40039	VOLTAGE LABEL CLOCK	1	\$1.00
TL783CKC	VOLTAGE REGULATOR	2	\$2.18
MC7912CK	VOLTAGE REGULATOR	2	\$8.05
508259	VOLTAGE REGULATOR	1	\$11.31
MC7815CT	VOLTAGE REGULATOR 15V ECG 968 SK3593	2	\$3.85
MC79L12CP	VOLTAGE REGULATOR NEG 12 VOLT 100MA	2	\$1.90
4170-8010	WASHER	2	\$1.50
8020-0600	WASHER CORK WASHER	2	\$0.60
101552-001	WASHER CURVED	2	\$1.00
101547-003	WASHER FLAT NYLON	2	\$1.00
2190-0016	WASHER RCA VIDEO LOCK WASHER	8	\$0.30
31013-001	WASHER SHIM	16	\$0.10
800295-017	WASHER SPRING	9	\$0.10
210-1199-00	WASHER SPRING TENSION TEK4692	6	\$1.70
800468-009	WASHER WAVY	3	\$2.00
8915K-02	WELCH 8915A KIT REPAIR	2	\$172.30
ELITE16	WESTERN DIGITAL MODEL ETHERNET PLUS 16 BIT ETHERNET LAN CARD	6	\$132.00
PJDT91Y	WHEEL PAPER TRACTOR FEED	2	\$1.86
7009751-0-0	WHEEL CASTER	1	\$1.00
401-0329-01-CP	WHEEL INTERRUPTER TEK TERM	1	\$6.00
401-0329-01	WHEEL INTERRUPTER TEK TERM	3	\$6.00
4040-2002	WINDOW	1	\$15.00
BK1815	WINDOWS 98 RESOURCE KIT	1	\$37.00
BK1009	WINDOWS NT RESOURCE KIT	0	\$39.95
70-16230-00	WING PIVOT ASSY	1	\$20.00
127-0010	WIPER	24	\$5.50
7353T715	WIRE BRUSH	5	\$2.33
1127-0012	WIRE BRUSH PACE	1	\$60.00
8-FY1-0100-000	WIRE CORONA 0.08MM ISSUE PER FOOT 100 FT ROLL QMS PSJET+	195	\$1.45
197-1816-00(EX)	WIRE HARNESS ASSEMBLY DATA COMM TEK 4014-1	1	\$35.00
179-2248-03(EX)	WIRE HARNESS ASSEMBLY DISPLAY	1	\$20.00
179-2247-01(EX)	WIRE HARNESS ASSEMBLY PEDESTAL TEK 4014	1	\$30.00
175-2265-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00

## Exhibit D GFE Electronic Stockroom

PART NUMBER	DESCRIPTION	QUANTITY	UNIT COST
175-9342-01	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
175-9343-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
175-9344-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
175-9345-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
175-9348-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
175-9784-00	WIRE HARNESS RIBBON TEK 4692	1	\$5.00
90-02080	WIRE ROPE	1	\$18.00
198-4344-00	WIRE SET ELEC	1	\$10.00
4846A79	WIRE WHEEL	1	\$18.20
MTSW-136-12-G-D-70	WIRE WRAP HEADERS	7	\$4.70
30-073	WIRENUTS WIRE NUT WIRENUT MOD73B WIRE SIZE 16 OR SMALLER COPPER ONLY	2	\$0.02
136-0667-01	WRITING GUN BASE TEK4014	2	\$8.50
07595-60191	Y-CARRIAGE Y CARRIAGE ASSY HPC 7596C	1	\$340.00
12-16308-00	YOKE	1	\$25.00
106955-901	YOKE ASSEMBLY CAM SHUTTLE ROLLER	1	\$39.00
TMD-2526	YOKE ASSY	1	\$20.00
YOKE-4D(EX)	YOKE CRT NIF JC1601 4D MULTISYNC	1	\$74.00
9100-4077	YOKE DEFLECTION	3	\$250.00
9100-4077(EX)	YOKE DEFLECTION HPC 2621P	1	\$35.00
TMD-2903(EX)	YOKE DEFLECTION SLA 100XL	2	\$25.00
5107-140-01261	YOKE SNM SUN	1	\$85.00

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	A003081	4 CHANNEL INPUT PREAMPLIFIER FILTER PCB	NEFF INSTRUMENT CORP.	NONE	90023061	971	NONE	1236	248	6625	\$1,500
Y	1093124	ABRASIVE MACHINE	CLEMCO INDUSTRIES	1992	AVS50E	43478	11/03/1992	1289	YARD	3450	\$53,965
N	A002125	ACCELEROMETER	PCB PIEZOTRONICS, INC.	NONE	309M42	3348	NONE	1236	148	6680	\$450
N	A005012	ACCELEROMETER	ENDEVCO	NONE	2271A	GL56	NONE	1236	248	6680	\$950
N	A005013	ACCELEROMETER	ENDEVCO	NONE	2271A	GL54	NONE	1236	248	6680	\$950
N	A005014	ACCELEROMETER	ENDEVCO	NONE	2271A	GL52	NONE	1236	248	6680	\$950
N	A005015	ACCELEROMETER	ENDEVCO	NONE	2271A	GL58	NONE	1236	248	6680	\$950
N	A005016	ACCELEROMETER	ENDEVCO	NONE	2271A	GL95	NONE	1236	248	6680	\$950
N	A005273	ACCELEROMETER	PCB PIEZOTRONICS, INC.	NONE	309M42	4493	10/01/1992	1236	212	6680	\$579
N	A005274	ACCELEROMETER	PCB PIEZOTRONICS, INC.	NONE	309M42	4494	10/01/1992	1236	212	6680	\$579
N	A005275	ACCELEROMETER	PCB PIEZOTRONICS, INC.	NONE	309M51	4491	10/01/1992	1236	212	6680	\$779
N	M095433	ACCELEROMETER	PCB PIEZOTRONICS, INC.	NONE	309M42	3349	NONE	1236	248	6680	\$450
Y	1880652	ADP PRINTER	HEWLETT PACKARD	1999	C3982A	USCF020999	03/01/1999	1236	105	7025	\$600
N	2102810	ADP PRINTER	HEWLETT PACKARD	2002	C8521A	JPBPL15298	09/01/2002	1130T2	203	7025	\$3,825
Y	462315	AIR COMPRESSOR	INGERSOLL-RAND CO.	1963	NONE	177450	08/01/1996	1247E	BASE	4310	\$2,000
Y	1742779	AIR CONDITIONER, PORTABLE	ENGINEERED AIR SYS F-AME	1996	A/M32C-5	MAE3J0093	05/15/1997	1187	PARK	4120	\$55,741
Y	1742755	AIR CONDITIONER, PORTABLE	TOPP CONSTRUCTION SERVICE	1997	TLR10	4JAUS0812VG000062	04/23/1997	1156	YARD	4120	\$16,317
Y	1742756	AIR CONDITIONER, PORTABLE	TOPP CONSTRUCTION SERVICE	1997	TLR10	4JAUS0814VG000063	04/23/1997	1251	118	4120	\$16,317
Y	1742757	AIR CONDITIONER, PORTABLE	TOPP CONSTRUCTION SERVICE	1997	TLR20	4JAUS1217VG000105	04/23/1997	1238B	YARD	4120	\$21,816
Y	528722	AIR CONDITIONER, TRAILOR MTD	THERM-AIR MFG CO INC	1963	TME10	NONE	10/01/1963	1161	YARD	4120	\$6,197
Y	1426450	ALIGN AND BALANCING SYSTEM	COMPUTATIONAL SYSTEMS INC	1995	ULTRASPEC8000	1251	09/12/1995	1199	113A	6625	\$18,320
N	A017142	ANALOG/DIGITAL CONVERTER	NEFF INSTRUMENT CORP.	NONE	90023023	151	06/01/1987	1148	104	6625	\$6,500
Y	2009234	ANALYZER, ACOUSTIC EMISSION	ENERGY EFFICIENCY SYSTEMS	1996	M3000	31000190	09/01/1996	1215	115	6635	\$17,000
Y	801159	ANALYZER, GAS	MINE SAFETY APPLIANCES CO	1992	MINIGARDII	NONE	10/05/1992	1188	102	6630	\$716
Y	L018720	ANALYZER, INSULATION	DOBLE ENGINEERING CO	2000	M4110	109900091	04/14/2000	1147	100	6625	\$1,500
Y	L018757	ANALYZER, INSULATION	DOBLE ENGINEERING CO	2000	M4100	99400318	11/22/2000	1209T	207	6625	\$7,680
Y	1741015	ANALYZER, LASER	COMPUTATIONAL SYSTEMS INC	1996	B8000DC	648015	01/09/1997	1209T	100	6650	\$2,495
Y	38590	ANALYZER, MACHINERY	COMPUTATIONAL SYSTEMS INC	1996	A212002	645120	12/13/1996	1209T	406	6625	\$15,990
Y	1431023	ANALYZER, OIL	COMPUTATIONAL SYSTEMS INC	1996	5100-2	1404	08/12/1996	1209T	100	6630	\$2,500
Y	1739752	ANALYZER, RESISTANCE/SURGE	BAKER INSTRUMENT CO	1996	AWA12000	58	11/25/1996	1209T	100	6625	\$25,000
Y	1256755	ANALYZER, SIGNAL, DIGITAL	COMPUTATIONAL SYSTEMS INC	1993	2115DX	2220	10/04/1993	1209T	406	6625	\$8,821
Y*	1636054	ANTENNA	TRIMBLE NAVIGATION LTD.	2002	33429-00	220231065	05/01/2002	1209T7	700	5820	\$8,500
N	M094851	AOA BUBBLE	LANGLEY RESEARCH CENTER	NONE	87	NONE	NONE	1236	248	6680	\$650
N	M098162	AOA BUBBLE	LANGLEY RESEARCH CENTER	NONE	NONE	3	NONE	1236	248	6680	\$750
N	1254606	AUDIO/VIDEO SWITCHER	HEDCO	1993	HD16X	A930852	03/01/1993	1236	220	5820	\$4,183
N	A005746	BCPA	WYLE LABORATORIES, INC.	NONE	N/A	NONE	NONE	1236	212	6625	\$750
Y	2008192	BEVELING MACHINE	TRI-TOOL INC	1981	705/400AL	981183	10/06/1981	1223	100	3417	\$7,395
Y	427738	BEVELING MACHINE	TRI-TOOL INC	1982	708	582521	07/28/1982	1223A	100	3449	\$6,175
Y	1743393	BEVELING MACHINE	TRI-TOOL INC	1997	206B	NONE (VERIFIED)	11/06/1997	1223	100	3449	\$6,665
Y	1088963	BLAST CLEANING MACHINE	SCHMIDT MFG INC	1991	101-020S	MI 149	10/01/1991	1289	YARD	4940	\$5,695
Y	1088965	BLAST CLEANING MACHINE	SCHMIDT MFG INC	1991	101-020S	MI 151	10/03/1991	1289	YARD	4940	\$5,695
Y	2098268	BRAKE, HAND	DREIS AND KRUMP MFG CO	1981	S0816	320566	12/15/1981	1198	100	3441	\$2,700
Y	848866	BRIDGE, KELVIN	AVO BIDDLE INSTRUMENTS FM	1990	72-439	97619	01/18/1990	1188	100	6625	\$2,985
Y	427727	BUILDING, PORTABLE	PORTA-FAB CP F-KEENE CORP	1975	88	NONE	12/11/1975	1187	100	5410	\$3,325
Y	1086393	BURNER, PLASMA	THERMAL DYNAMICS CORP	1991	6XI	Y013011A184801	08/20/1991	1223	100	3431	\$3,271
N	1263237	CABINET, COMPUTER	HEWLETT-PACKARD CO	1994	29431G	2516A04226	04/26/1994	1215	101	7025	\$389,657
Y	138060	CABINET, GARMNT STOR, ULTRACLN	CLEAN ROOM PRODUCTS INC	1987	DGS3283	86115	01/12/1987	1188	100	7105	\$1,583
Y	1262403	CABINET, GAS	SAFETY STORAGE INC	1994	2	2595811	06/28/1994	1233	YARD	5410	\$1,137
Y	1262413	CABINET, GAS	SAFETY STORAGE INC	1994	2	2596176	06/28/1994	642	YARD	5410	\$1,137
Y	424652	CABINET, STORAGE, ACID	UNKNOWN (VERIFIED)	1983	SS124	NONE (VERIFIED)	07/07/1983	1188	100	7125	\$1,110
N	1255219	CALIBRATION STANDARD	WAVETEK CORP.	1993	4800	26206-1	06/01/1993	1236	220	6625	\$10,754
N	1255220	CALIBRATION STANDARD	WAVETEK CORP.	1993	4800	26207-1	06/01/1993	1236	220	6625	\$10,754
N	A003027	CALIBRATION SUPPLY PCB	NEFF INSTRUMENT CORP.	NONE	90022518	1234	NONE	1236	248	6625	\$1,500
N	M095084	CALIBRATION SUPPLY PCB	NEFF INSTRUMENT CORP.	NONE	90023039	145	NONE	1148	104	6625	\$1,500
N	M095823	CALIBRATION SUPPLY PCB	NEFF INSTRUMENT CORP.	NONE	90023039	S000104	12/01/1999	1148	104	6625	\$1,500
Y	1156654	CALIBRATOR, MULTIPURPOSE	PROMAC CONTROLS INC	1992	DHT740	74LB0059	09/21/1992	1188	102	6625	\$1,740
Y	1156707	CALIBRATOR, MULTIPURPOSE	PROMAC CONTROLS INC	1992	DHT740	74LB0057	09/21/1992	1188	102	6625	\$1,740
Y	258198	CALIBRATOR, PRESSURE	JOFRA INC	1986	PCI350	55163	04/15/1986	1199	113	6685	\$2,600
Y	138590	CALIBRATOR, PRESSURE	JOFRA INC	1987	PCI350	63209	01/20/1987	1199	T175	6685	\$2,850
Y	59904	CALIBRATOR, PRESSURE	EATON CORP CONTROLS DIV	1989	UPC5200AA	A1029	01/09/1989	1188	102	6625	\$13,500
Y	61936	CALIBRATOR, PRESSURE	ROSEMOUNT INC OF EMERSON	1989	268	25477	05/08/1989	1188	102	6685	\$1,250
Y	801451	CALIBRATOR, PRESSURE	EATON CORP CONTROLS DIV	1992	ORION3A	AZ751	07/10/1992	1188	102	6685	\$2,516

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	35849	CALIBRATOR, PRESSURE	CRYSTAL ENGINEERING CORP	1995	2121-1878A-HR	953-8216	10/04/1995	1188	102	6685	\$1,040
N	55762	CALIBRATOR, PRESSURE/TEMP	ROCHESTER INSTRUMENT SYS	1988	CL6100	1287007	06/03/1988	1215	101	6625	\$2,875
Y	533031	CALIBRATOR, THERMOCOUPLE	PROMAC CONTROLS INC	1983	DHT820	8C80239	06/26/1990	1188	102	6685	\$2,060
Y	280010	CALIBRATOR, THERMOCOUPLE	PROMAC CONTROLS INC	1985	DHT820-1	8DJ0876	06/26/1990	1188	102	6625	\$2,060
N	428110	CALIBRATOR, TRANSDUCER, PORTBL	SCIENTIFIC COLUMBUS INC	1976	1369C	1365	04/27/1976	1215	101	6625	\$3,610
N	468435	CALIBRATOR, VOLTAGE	FLUKE CORP	1973	5200A	63901	10/01/1973	1215	101	6625	\$3,915
N	1610625	CAMERA CONTROLLER	ELMO MANUFACTURING CORP.	1997	ME411E	NONE	09/01/1997	1236	243	5836	\$1,256
N	2008952	CAMERA CONTROLLER	ELMO MANUFACTURING CORP.	2000	ME411E	169323	09/01/2000	1236	243	5836	\$1,300
Y	1604843	CAMERA, INFRARED	FLIR SYSTEMS-BOSTON INC N	1997	PM250	16739	03/18/1997	1209T	403	6720	\$51,500
Y	258889	CAMERA, TELEVISION	SONY CORP	1986	AVC01	51157	05/27/1986	1284B	118	5820	\$1,136
N	A005438	CAPACITANCE GAUGE HEATER BASE	EDWARDS HIGH VACUUM INT'L	NONE	525	3013286	01/01/1993	1236	210	6685	\$910
N	A005439	CAPACITANCE GAUGE HEATER BASE	EDWARDS HIGH VACUUM INT'L	NONE	525	3013287	01/01/1993	1236	210	6685	\$910
Y	425963	CARD MOUNTER	MINN MINING & MFG ADHESIVES	1983	187425	39DA	07/01/1983	1130T	203	6730	\$8,979
Y	1742661	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419F	05/06/1997	1199	113	4320	\$2,003
Y	1742662	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419C	05/06/1997	1187	100	4320	\$2,003
Y	1742663	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419B	05/06/1997	1187	100	4320	\$2,003
Y	1742664	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419A	05/06/1997	1187	100	4320	\$2,003
Y	1742665	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419D	05/06/1997	1187	100	4320	\$2,003
Y	1742666	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L085-1032AW-KN	226419E	05/06/1997	1187	100	4320	\$2,003
Y	1875638	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L320AWKNZ	231198	12/09/1997	1187	100	4320	\$2,493
Y	1875639	CART, FILTER, OIL	SHARP CONTROLS COMPANY	1997	L320AWKNZ	231198-A	12/09/1997	1187	100	4320	\$2,493
Y	1740339	CART, FILTRATION (OIL)	COMO INDUSTRIAL EQUIPMENT	1996	122	4884	12/19/1996	1187	100	4330	\$3,920
Y	1261160	CART, TRANSPORT	SWELDJECT INC	1989	SW2	NONE	01/19/1990	642	SWGR	8140	\$1,580
Y	1261161	CART, TRANSPORT	SWELDJECT INC	1989	SW2	NONE	01/19/1990	642	SWGR	8140	\$1,580
Y	2098926	CELLCORDER	ALBERCORP	2001	1000-021	CLC200-01-220	07/30/2001	1188	100	6625	\$5,670
Y	NONE	CENTERING PLATFORM	TOPCON	N/A	N/A	6306	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	1256854	CHAMBER, TEMPERATURE	WYLE LABORATORIES	1976	C106-3600	222	10/08/1976	1188	102	6685	\$1,000
N	A001488	CHANNEL PREAMPLIFIER PCB	NEFF INSTRUMENT CORP.	NONE	D22107F	751874	NONE	1236	248	6625	\$650
N	A001489	CHANNEL PREAMPLIFIER PCB	NEFF INSTRUMENT CORP.	NONE	D22107F	440693	NONE	1236	248	5996	\$1,500
N	A003026	CHANNEL PREAMPLIFIER PCB	NEFF INSTRUMENT CORP.	NONE	D22107F	420653	NONE	1236	248	6625	\$1,500
N	A014252	CHARACTER PRINTER	EPSON AMERICA, INC.	1993	LX810P80SA	4480450122	04/01/1993	1215	101A	7025	\$164
N	A004277	CHASSIS	DYNAIR ELECTRONICS	NONE	FR1000	NONE	12/01/1994	1236	248	6625	\$650
N	A004278	CHASSIS	DYNAIR ELECTRONICS	NONE	FR1000A	223691J2	12/01/1994	1236	248	6625	\$650
N	A004279	CHASSIS	DYNAIR ELECTRONICS	NONE	FR1000A	221878L2	12/01/1994	1236	248	6625	\$650
N	A000913	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-112	NONE	1236	248	6625	\$650
N	A000914	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-16	NONE	1236	248	6625	\$650
N	A000915	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-20	NONE	1236	248	6625	\$650
N	A000916	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-113	NONE	1236	248	6625	\$650
N	A000917	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-101	NONE	1236	248	6625	\$650
N	A000919	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	D21820L	602804	NONE	1236	248	6625	\$650
N	A001047	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	D21829L	612900	NONE	1236	248	6625	\$650
N	A003068	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	NTF-25	NONE	1236	248	6625	\$1,500
N	A003069	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	D21829L	602758	NONE	1236	248	6625	\$1,500
N	M095114	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	1233	NONE	1236	248	6625	\$650
N	M095642	CIRCUIT BOARD	NEFF INSTRUMENT CORP.	NONE	C22518	29	NONE	1236	248	6625	\$1,500
Y	139918	CLEANER, SEWER	ELECTRIC EEL MFG CO INC	1987	C	29319C	04/14/1987	1199	118	4610	\$1,440
Y	1260878	CLEANER, ULTRASONIC	SONIC SYSTEMS INC	1994	D11734	11732-0394	02/28/1994	1188	100	4940	\$43,990
Y	1261099	CLEANER, ULTRASONIC	SWEN SONIC CORP	1994	1007	1001	03/08/1994	1188	100	4940	\$8,000
Y	139359	CLEANER, VACUUM	NILFISK OF AMERICA INC	1987	17916	GS8236916	03/17/1987	1279T	100	7910	\$1,189
Y	1878628	CLEANING MACHINE	GRAYMILLS CORP	1998	TEMPEST10S	K98	07/24/1998	1188	100	4940	\$3,367
Y	1093121	COLLECTOR, DUST	ENVIRONMENTAL CONTAINER S	1992	ECSPI8	1509-3	11/03/1992	1289	100	4460	\$65,475
Y	1093123	COLLECTOR, DUST	ENVIRONMENTAL CONTAINER S	1992	ECSPI8	1499-3	11/03/1992	1289	100	4460	\$53,475
Y	G074987	COMPOSING MACHINE	MERLIN MACHINE CORP.	1990	2580	JL001-1716	08/01/1990	1236	101	7430	\$1,037
Y	1262851	COMPOSING MACHINE	BRADY W H CO	1994	LABELIZER PLUS	VM00-400098	07/27/1994	1209	150	7430	\$3,145
Y	1089019	COMPRESSOR, AIR	SULLIVAN MACHINERY F-JOY	1991	375	97631	10/03/1991	1289	N1334	4310	\$14,915
Y	1424610	COMPRESSOR, AIR	SULLAIR CORP	1993	H1300-150D0T-CAT	004-104928	09/07/2001	1215	YARD	4310	\$42,500
Y	1263359	COMPRESSOR, AIR	DAVEY COMPRESSOR CO	1994	12M125RDPD0	38743	08/15/1994	1199	N1630	4310	\$7,388
Y	268471	COMPRESSOR, ROTARY	INGERSOLL-RAND CO	1986	RDL200	RO296	05/27/1992	1289	YARD	4310	\$25,773
N	37887	COMPUTER SWITCHER	BLACK BOX CATALOG	1996	SW724A-R2	9602-12665	03/01/1996	1236	220	7025	\$1,200
N	1613357	COMPUTER, LAPTOP	NETLUX	1999	3002	N8009F5P13	12/02/1999	1209	106	7021	\$2,099
N	2099043	COMPUTER, LAPTOP	TOSHIBA	2001	PS460U06KYHI	4213801PU	08/01/2001	1209	105	7021	\$1,993
N	1085812	COMPUTER, MICRO	HEWLETT-PACKARD CO	1991	985744	6129A61390	06/10/1991	1215	101	7021	\$18,823

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	1256062	COMPUTER, MICRO	COMPAQ COMPUTER CORP	1993	PRO SIGNIA	6318HDS60128	10/14/1993	1209	113	7021	\$6,850
N	1263231	COMPUTER, MICRO	GATEWAY 2000	1994	4DX33	2256308	04/26/1994	1215	101	7021	\$3,034
N	1263234	COMPUTER, MICRO	GATEWAY 2000	1994	4DX33	2256309	04/26/1994	1215	101	7021	\$3,034
N	1263235	COMPUTER, MICRO	GATEWAY 2000	1994	CB486SX25	940300569	04/26/1994	1215	101	7021	\$3,000
Y	1263434	COMPUTER, MICRO	GATEWAY 2000	1994	BABY AT	2512013	09/01/1994	1199	117	7021	\$3,140
N	1422684	COMPUTER, MICRO	NCR CORP F-NATIONAL CASH	1994	9035	15-29142152	10/20/1994	1215	101	7021	\$16,205
N	1423026	COMPUTER, MICRO	KEHTRON COMPUTERS INC	1994	DVCB01	239448D13088	11/28/1994	1215	101	7021	\$15,406
Y	1424095	COMPUTER, MICRO	TOSHIBA AMER INC INFO SYS	1995	PA1171U X	9442181	02/13/1995	1209T	100	7021	\$3,495
N	1424865	COMPUTER, MICRO	EVEREX SYSTEMS ABATON TEC	1995	386/SX	22300003	05/09/1995	1215	101	7021	\$2,422
Y	1429240	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	313	06/07/1996	1215	113	7021	\$2,200
Y	1431545	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	6838	09/12/1996	1199	122	7021	\$2,490
Y	1431546	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	6836	09/12/1996	1188	100	7021	\$2,490
N	1431547	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	6847	09/12/1996	1215	101	7021	\$2,490
Y	1431548	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	6839	09/12/1996	1199	106	7021	\$2,490
Y	1431551	COMPUTER, MICRO	GOVERNMENT MICRO RESOURCE	1996	MMT-REM2000	6849	09/12/1996	1199	101	7021	\$2,490
Y	1874981	COMPUTER, MICRO	NEC TECHNOLOGIES INC DIV	1996	PC7101541	54001165	01/01/1996	1209T	100	7021	\$6,000
Y	1741697	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1997	P166	N7319B036	04/16/1997	1275	103	7021	\$975
Y	1741698	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1997	P166	N7319B033	04/16/1997	1199	116	7021	\$975
Y	1741699	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1997	P166	N7319B040	04/16/1997	1199	116A	7021	\$975
Y	1741704	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1997	P166	N7319B029	04/16/1997	1199	101	7021	\$975
N	1875611	COMPUTER, MICRO	STAR GATE COMPUTERS	1997	NONE (VERIFIED)	123868	11/17/1997	1209	200	7021	\$1,200
Y	1875897	COMPUTER, MICRO	A-OPEN	1997	BG85	NONE (VERIFIED)	01/02/1998	1215	103	7021	\$1,673
N	1875985	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	806	7021	\$7,487
N	1875989	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	807	7021	\$6,256
N	1875990	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	800	7021	\$6,256
N	1875991	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/02/1998	1209T8	800	7021	\$4,706
N	1875993	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/02/1998	1209T8	808	7021	\$4,706
N	1875994	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/02/1998	1209T8	800	7021	\$4,706
N	1875997	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/02/1998	1209T8	800	7021	\$4,706
N	1875998	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	801	7021	\$4,706
N	1876001	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	808	7021	\$4,706
N	1876002	COMPUTER, MICRO	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T8	808	7021	\$4,706
Y	1877326	COMPUTER, MICRO	CTX INTL	1998	EEG1	F825K4QU1N57M	03/25/1998	1299T	300	7021	\$862
Y	1877330	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1998	EEG1	B9810000629	03/29/1998	1188	100	7021	\$862
Y	1877413	COMPUTER, MICRO	DTK CO INC F-VELTRI FRANK	1998	QUINN57	B9810000898	05/27/1998	1188	102	7021	\$979
N	1877576	COMPUTER, MICRO	QUANTEX MICROSYSTEMS	1998	FT-NA7300BT1	5001683055	05/01/1998	1209T	810	7021	\$2,000
N	1878706	COMPUTER, MICRO	ADVANCED DIGITAL SYSTEMS	1998	NONE	GA98070670	08/03/1998	1209	150	7021	\$1,575
N	1878720	COMPUTER, MICRO	ADVANCED DIGITAL SYSTEMS	1998	NONE	GA98070672	08/03/1998	1209	155	7021	\$1,575
N	1878734	COMPUTER, MICRO	ADVANCED DIGITAL SYSTEMS	1998	NONE	GA98070670	08/03/1998	1209	190	7021	\$1,575
N	1879648	COMPUTER, MICRO	GMR	1998	MMT-REM2000	0805	10/01/1998	1209T8	800	7021	\$2,975
N	1879649	COMPUTER, MICRO	GMR	1998	MMT-REM2000	0806	10/02/1998	1209T8	809	7021	\$4,848
N	1879650	COMPUTER, MICRO	GMR	1998	MMT-REM2000	0807	10/02/1998	1209T8	800	7021	\$4,848
N	1879651	COMPUTER, MICRO	GMR	1998	MMT-REM2000	0808	10/02/1998	1209T8	809	7021	\$4,848
N	1880039	COMPUTER, MICRO	HEWLETT-PACKARD CO	1998	SEDDS2DAT	US68414387	12/15/1998	1215	101	7021	\$4,245
N	1880040	COMPUTER, MICRO	HEWLETT-PACKARD CO	1998	SEDDS2DAT	US68391240	12/15/1998	1215	101	7021	\$4,245
N	1880041	COMPUTER, MICRO	HEWLETT-PACKARD CO	1998	MDLB180L	US68444692	12/15/1998	1215	109	7021	\$8,515
N	1880042	COMPUTER, MICRO	HEWLETT-PACKARD CO	1998	MDLB180L	US68445250	12/15/1998	1215	109	7021	\$8,515
N	1880274	COMPUTER, MICRO	MICRON ELECTRONICS	1998	SE440BX-PII400T	1356112-00	07/01/1998	1209T	810	7021	\$1,924
Y	1880362	COMPUTER, MICRO	A-OPEN	1998	PII350	84610360JK	01/14/1999	1215	114	7021	\$1,058
Y	1880363	COMPUTER, MICRO	A-OPEN	1998	PII350	84612388JK	01/14/1999	1215	106C	7021	\$1,058
Y	1880364	COMPUTER, MICRO	A-OPEN	1998	PII350	84610420JK	01/14/1999	1215	115	7021	\$1,058
Y	2099821	COMPUTER, MICRO	CTX INTL	1998	EEG1	N7C168026	03/10/1998	1199	112	7021	\$950
N	1880044	COMPUTER, MICRO	INTEVA INC ADVANCED TECHN	1999	PII300	5001801296	01/05/1999	1215	101	7021	\$1,130
N	1880045	COMPUTER, MICRO	INTEVA INC ADVANCED TECHN	1999	PII300	5001801297	01/05/1999	1215	101	7021	\$1,130
N	1880046	COMPUTER, MICRO	INTEVA INC ADVANCED TECHN	1999	PII300	5001801298	01/05/1999	1215	101	7021	\$1,130
Y	1880049	COMPUTER, MICRO	A-OPEN	1999	WIN9X100N	84002765JK	01/07/1999	1188	101	7021	\$1,060
Y	1880050	COMPUTER, MICRO	COMPAQ COMPUTER CORP	1999	1235K6/266	1V8BBY8BH0JK	01/12/1999	1299T	300	7021	\$1,500
N	1881540	COMPUTER, MICRO	MICRON	1999	SE440BX2ATX	1652404-00	06/02/1999	1209T8	800	7021	\$2,405
N	1883111	COMPUTER, MICRO	GATEWAY	1999	LP MINI TOWER	15530772	09/02/1999	1209	190	7021	\$1,304
N	1883182	COMPUTER, MICRO	DELL	1999	MMP	6FXUX	10/02/1999	1130T2	203	7021	\$4,115
N	1885650	COMPUTER, MICRO	DELL	2000	MMS	GNI500B	07/01/2000	1209	155	7021	\$1,193
Y	2009211	COMPUTER, MICRO	DELL COMPUTER CORP F-PC'S	2000	MMS	8DLD10B	10/06/2000	1247D	118	7021	\$1,196

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	2098677	COMPUTER, MICRO	ABS	2001	MATROX	10082689	07/01/2001	1209	106	7021	\$1,004
N	2099039	COMPUTER, MICRO	ABS	2001	MATROX	10083810	08/01/2001	1209	100	7021	\$1,004
N	2099040	COMPUTER, MICRO	ABS	2001	MATROX	10083109	08/01/2001	1209	100	7021	\$1,004
Y	2101988	COMPUTER, MICRO	DELL ELECTRONICS, INC.	2002	DELLKIP1	88RFD11	07/01/2002	1130T2	205	7021	\$2,200
N	2104698	COMPUTER, MICRO	XI COMPUTER CORP	2002	NONE (VERIFIED)	21518	08/01/2002	1209T	800	7021	\$2,413
Y	N/A	COMPUTER, MICRO	GATEWAY	N/A	166 MHZ	N/A	N/A	1215	101	N/A	N/A
N	N/A	COMPUTER, MICRO	COMPAQ	N/A	833 MHZ	N/A	N/A	1215	101	N/A	N/A
N	N/A	COMPUTER, MICRO	GENERIC	N/A	1.6 GHZ	N/A	N/A	1215	109A	N/A	N/A
Y	1739411	COMPUTER, MICRO, PORTABLE	INTERNATIONAL BUSINESS MA	1996	2625	R6G23BXVG4	09/12/1996	1188	100	7021	\$2,399
Y	1612561	COMPUTER, MICRO, PORTABLE	COMPAQ COMPUTER CORP	1998	1573DM	J819BZW6S385	07/17/1998	1209	112	7021	\$2,269
Y	1877392	COMPUTER, MICRO, PORTABLE	TOSHIBA AMER INC INFO SYS	1998	PA1251UVCD	28530671-3	05/08/1998	1209T	403	7021	\$1,894
Y	1880836	COMPUTER, MICRO, PORTABLE	COMPAQ COMPUTER CORP	1999	PRESARIO1235	1V88BY8BG48D	03/30/1999	1209	116	7021	\$1,437
Y	2098112	COMPUTER, MICRO, PORTABLE	DELL COMPUTER CORP F-PC'S	2001	PP01L	TW-0791UH-12800-132-	05/23/2001	1209T	406	7021	\$19,550
Y	2100568	COMPUTER, MICRO, PORTABLE	DELL COMPUTER CORP F-PC'S	2002	PP01L	4RT4911	03/29/2002	1209	100A	7021	\$5,800
N	A005745	CONSTANT CURRENT SOURCE	HEWLETT PACKARD	NONE	6181C	1915A01100	NONE	1236	135	6130	\$995
Y	2097707	CONSTANT TEMPERATURE BATH	NESLAB INSTRUMENTS, INC.	2001	RTE111	101057038	03/01/2001	1236	222B	6640	\$2,625
N	1262817	CONTAINER, SHIPPING	MILITARY SPECIFICATIONS	1985	2681245	NONE	12/18/1985	1130T	CONX4	8140	\$1,000
N	1880099	CONTAINER, SHIPPING	MILITARY SPECIFICATIONS	1985	267-020-9	8FTX8FTX20FT	05/25/1985	1130T	CONX1	8140	\$1,000
N	1262816	CONTAINER, SHIPPING	MILITARY SPECIFICATIONS	1987	NONE	NONE	08/14/1987	1130T	CONX5	8140	\$1,375
Y	2098298	CONTAINER, SHIPPING	TRAILMOBILE INC OF PULLMA	1989	NONE	NONE	05/09/1989	1284B	YARD	8140	\$2,975
Y	1088577	CONTAINER, SHIPPING	MILITARY SPECIFICATIONS	1991	NONE	206561-C	09/30/1991	1223	CONX	8140	\$2,695
Y	144087	CONTAINER, SHIPPING & STORAGE	MID ATLANTIC CONTAINER CO	1987	NONE	NONE	09/25/1987	1289	CONX	8115	\$1,100
Y	259513	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1986	NONE	288413-0	08/15/1986	1223	CONX	8140	\$1,400
Y	259514	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1986	NONE	200263-3	08/15/1986	1199	YARD	8140	\$1,400
Y	144219	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1987	NONE	0010-464918-0	10/28/1987	1292	CONX	8120	\$1,993
Y	1881415	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1987	TN7012	2345MS652783	04/06/1987	1156	CONX	8115	\$2,350
N	58368	CONTAINER, STORAGE	KAWASAKI FUJI SEIKI CO	1988	SD204398	KCD10-2	10/28/1988	1130T	CON11	8140	\$2,190
N	58420	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1988	0-259658	DAA158BS	11/07/1988	1130T	CONX2	8140	\$2,990
N	1262814	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1988	INBU268144	CD5-23	10/28/1988	1130T	CON10	8140	\$2,190
N	1262815	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1988	NONE	NONE	11/07/1988	1130T	CON13	8140	\$2,190
N	1880100	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1988	NONE	NONE	11/07/1988	1130T	CON12	8140	\$2,190
Y	847891	CONTAINER, STORAGE	KAWASAKI FUJI SEIKI CO	1989	KAD50-2	SD402886	12/06/1989	1187	CONX	8140	\$2,600
Y	1257267	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1993	NONE	NONE	08/23/1993	1156	CONX	8145	\$2,508
N	1260987	CONTAINER, STORAGE	DEPT OF ARMY US ARMY GENERAL M	1994	NONE (VERIFIED)	NONE (VERIFIED)	03/24/1994	1130T	CONX6	8140	\$5,000
N	1260988	CONTAINER, STORAGE	DEPT OF ARMY US ARMY GENERAL M	1994	NONE (VERIFIED)	NONE (VERIFIED)	03/24/1994	1130T	CONX8	8140	\$5,000
N	1260989	CONTAINER, STORAGE	DEPT OF ARMY US ARMY GENERAL M	1994	NONE (VERIFIED)	HFT047/A	03/24/1994	1130T	CONX7	8140	\$5,000
N	1262842	CONTAINER, STORAGE	DEPT OF ARMY US ARMY GENERAL M	1994	NONE (VERIFIED)	NONE (VERIFIED)	03/24/1994	1130T	CONX9	8140	\$5,000
Y	1264202	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1994	NONE (VERIFIED)	NONE (VERIFIED)	09/23/1994	1199	CONX	8145	\$2,200
N	1880101	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1995	NONE (VERIFIED)	A1C-DSF40PK	10/05/1995	1130T	CON14	8140	\$2,175
Y	1739821	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1996	NONE (VERIFIED)	TOLU287850	12/13/1996	1199	CONX	8140	\$1,324
Y	1739822	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1996	NONE (VERIFIED)	IT017	12/13/1996	1199	CONX	8140	\$1,324
Y	1873029	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1996	NONE (VERIFIED)	11403	06/02/1997	1187	YARD	8145	\$8,300
Y	1873030	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1996	NONE (VERIFIED)	11415	06/02/1997	1187	YARD	8145	\$8,300
N	1880102	CONTAINER, STORAGE	HYUNDAI PRECISION AMERICA	1997	IEAU454677	HD-1AA196	04/02/1997	1130T	CON15	8140	\$2,275
N	1880103	CONTAINER, STORAGE	MILITARY SPECIFICATIONS	1997	IEAU413784	EAA10-06RW	04/02/1997	1130T	CON16	8140	\$2,275
N	NONE	CONTINUOUS FEED PRINTER (FOR APERTURE CARDS)	EPSON FX-2180	N/A	N/A	N/A	N/A	1130T2	203	N/A	\$1,500
Y	1423433	CONTROL PANEL	GAUMER CO INC	1994	CP4-40-4-1C	94-1234	01/04/1995	1188	107	6130	\$2,436
Y	1261100	CONTROL UNIT	SWEN SONIC CORP	1994	1008	1001	03/08/1994	1188	100	4940	\$1,000
Y	L018758	CONTROLLER, COMPUTER MICRO	DOBLE ENGINEERING CO	2000	M4200	129300077	11/22/2000	1209T	207	6625	\$6,000
Y	1089739	CONTROLLER, MINI	DOBLE ENGINEERING CO	1991	F2010	89106616	11/21/1991	1188	100	6625	\$1,400
Y	778654	CONTROLLER, PRESSURE	MOORE PRODUCTS CO	1984	352BA21NNF	NONE	01/24/1985	1188	100	6685	\$1,250
Y	847223	CONTROLLER, PRESSURE	EATON CORP CONTROLS DIV	1989	PCM1000-1	A1382	09/18/1989	1188	102	6685	\$5,885
Y	548134	CONTROLLER, PROGRAMMABLE, DGTL	MOORE PRODUCTS CO	1984	352EA21NN	NONE	09/06/1984	1188	100	6685	\$1,600
N	1262271	CONTROLLER, REMOTE TRANSMITTER	SCIENTIFIC-ATLANTA INC	1994	RTC1032B	1356	06/07/1994	1215	101	5820	\$3,500
Y	848195	COUNTER, PARTICLE	MET ONE INC	1989	206L1-115	84305	10/19/1989	1188	100	6635	\$5,070
Y	1880093	COUNTER, PARTICLE	MET ONE INC	1999	237B	990200060	02/17/1999	1188	100	6635	\$4,000
Y	1879795	COUNTER, PARTICLE, LASER	PARKER-HANNIFIN CORP	1998	PLC3000	55199	10/13/1998	1199	113	5860	\$13,500
Y	1431004	COUNTER, PARTICLE, OIL	COMPUTATIONAL SYSTEMS INC	1996	B5101	1027	08/02/1996	1209T	100	6635	\$13,496
Y	59565	CRANE, FLOOR	RUGER EQUIP INC F-STRATTO	1989	1P18A	85627955	04/28/1989	1202	119	3950	\$2,600
Y	284670	CRANE, HYDRAULIC	MAYO CO F-GALLION ALLSTEEL BODY	N/A	80	C80-GH-6178	04/28/1975	1199	N1582	N/A	\$31,789
Y	801690	CRIMPING TOOL	BURNDY CORP	1992	Y644M	LT92M317	10/07/1992	1188	100	5180	\$1,240
N	A019468	CURRENT PROBE	FLUKE CORP.	NONE	Y8100	3675261	NONE	1236	248	6625	\$250

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	1084311	DATA ACQUISITION CONTROLLER	NEFF INSTRUMENT CORP.	1991	620520AK	302	02/01/1991	1236	220	6625	\$11,232
N	1084485	DATA ACQUISITION CONTROLLER	NEFF INSTRUMENT CORP.	1991	620520AK	282	03/01/1991	1236	220	6625	\$11,232
N	418100	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1979	620001	NONE	11/01/1982	1236	222	7020	\$1,824
N	138465	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1987	620500	SN000180	01/01/1987	1148	104	6625	\$11,232
N	138466	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1987	620600	SN000140	01/01/1987	1148	104	6625	\$19,008
N	140079	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1987	620600	168	06/01/1987	1148	104	6625	\$19,008
N	140086	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1987	620500	151	06/01/1987	1148	104	6625	\$11,232
N	G073691	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1990	620500	281	02/01/1990	1221C	203	6625	\$13,592
N	G073693	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1990	620600	397	02/01/1990	1221C	203	6625	\$42,048
N	1084310	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1991	620600	427	02/01/1991	1236	220	6625	\$50,192
N	1084484	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1991	620600	434	03/01/1991	1236	220	6625	\$21,008
N	1090500	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1992	620600	356	02/01/1992	1236	220	6625	\$44,048
N	1742425	DATA ACQUISITION SYSTEM	NEFF INSTRUMENT CORP.	1997	620100	1685-009-0	04/01/1997	1148	104	6625	\$4,000
N	A000388	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-122	9822	NONE	1236	220	5996	\$650
N	A000936	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	181619	NONE	1236	248	5996	\$650
N	A000937	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	181622	NONE	1236	248	5996	\$650
N	A000938	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	272604	NONE	1236	248	5996	\$650
N	A000939	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	272603	NONE	1236	248	5996	\$650
N	A000940	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	222150	NONE	1236	248	5996	\$650
N	A000941	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	272578	NONE	1236	248	5996	\$650
N	A000942	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	181601	NONE	1236	248	5996	\$650
N	A000943	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	9821	NONE	1236	248	5996	\$650
N	A000944	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	181688	NONE	1236	248	5996	\$650
N	A001339	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	212010	NONE	1236	248	5996	\$650
N	A001340	DC DIFFERENTIAL AMPLIFIER	NEFF INSTRUMENT CORP.	NONE	122-123	211998	NONE	1236	248	5996	\$650
N	A006895	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01643	NONE	1236	109B	6130	\$560
N	A009914	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01639	NONE	1236	109B	6130	\$560
N	C003476	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01640	01/01/1981	1236	248	6130	\$715
N	C003477	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01652	01/01/1981	1236	248	6130	\$715
N	C003482	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01651	02/01/1981	1236	220	6130	\$715
N	C003483	DC POWER SUPPLY	HEWLETT PACKARD	NONE	6113A	1928A01647	06/01/1981	1236	220	6130	\$715
Y	1263737	DEGREASER	BETTER ENGINEERING MFG IN	1994	N200P	11066	10/13/1994	1199	113	4940	\$9,234
Y	429838	DETECTOR, GAS, COMBUSTIBLE	WESTINGHOUSE ELEC DISTRIB	1976	CLR1	CH1531	09/23/1976	1188	100	6665	\$3,211
Y	1263651	DETECTOR, IMPULSE, ELECTROMAG	AVO MULTI-AMP CORP/MULTI-	1994	651113	8308	11/18/1994	1188	100	6625	\$1,170
Y	1423501	DETECTOR, LEAK, ULTRAPHONIC	NEOVISION INC	1995	101	A021046	01/17/1995	1289	100	6635	\$2,294
Y	1431634	DETECTOR, LEAK, ULTRASONIC	U E SYSTEMS INC	1996	UP2000	21263	09/13/1996	1215	114	6635	\$3,596
Y	1431638	DETECTOR, LEAK, ULTRASONIC	U E SYSTEMS INC	1996	UP2000	21264	09/13/1996	1209T	109	6635	\$3,596
Y	G075912	DIAPHRAGM, PUMP	WILDEN PUMP AND ENGINEER	1990	M15ST/TF/TF/ST	140449	06/28/1990	1188	100	4310	\$4,027
N	A000305	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820111	NONE	1236	248	5996	\$650
N	A000306	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820101	NONE	1236	248	5996	\$650
N	A000307	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820105	NONE	1236	248	5996	\$650
N	A000308	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820102	NONE	1236	248	5996	\$650
N	A000312	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820104	NONE	1236	248	5996	\$650
N	A000313	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820114	NONE	1236	248	5996	\$650
N	A000314	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820106	NONE	1236	248	5996	\$650
N	A000315	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820113	NONE	1236	248	5996	\$650
N	A000316	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820112	NONE	1236	248	5996	\$650
N	A000317	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820107	NONE	1236	248	5996	\$650
N	A000318	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820108	NONE	1236	248	5996	\$650
N	A000319	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820110	NONE	1236	248	5996	\$650
N	A000320	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820109	NONE	1236	248	5996	\$650
N	A000321	DIFFERENTIAL AMPLIFIER	PACIFIC SCIENTIFIC CO.	NONE	70A-2.A17	1820103	NONE	1236	248	5996	\$650
N	A000311	DIFFERENTIAL AMPLIFIER RACK	PACIFIC SCIENTIFIC CO.	NONE	R10ACV	941101	NONE	1236	248	5996	\$615
N	C000902	DIGIQUARTZ PRESSURE GAUGE	PARO SCIENTIFIC	NONE	2200A	7447	NONE	1236	101	NONE	\$2,050
N	C000903	DIGIQUARTZ PRESSURE GAUGE	PARO SCIENTIFIC	NONE	2200A	7453	NONE	1236	101	NONE	\$2,050
N	C044548	DIGIQUARTZ PRESSURE GAUGE	PARO SCIENTIFIC	NONE	2200A	7326	NONE	1236	208	6685	\$2,050
N	C044619	DIGIQUARTZ PRESSURE GAUGE	PARO SCIENTIFIC	NONE	2200A	7452	NONE	1236	101	NONE	\$2,050
N	C044622	DIGIQUARTZ PRESSURE GAUGE	PARO SCIENTIFIC	NONE	2200A	7450	NONE	1236	102	6685	\$2,050
Y	1636085	DIGITAL CAMERA	NIKON, INC.	2002	COLLPX 5000	2510455	05/01/2002	1236	205	6720	\$669
N	A000253	DIGITAL HYGROMETER THERMOMETER	OMEGA ENGINEERING, INC.	NONE	RH411	99317	NONE	1236	248	6685	\$350
N	A005217	DIGITAL HYGROMETER/THERMOMETER	OMEGA ENGINEERING, INC.	NONE	RH411	H0099362	10/01/1992	1236	248	6685	\$352
Y	A023599	DIGITAL MULTIMETER	FLUKE CORP.	1991	77	52280220	03/01/1991	1258	200	6625	\$138



# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	A023598	DIGITAL MULTIMETER	FLUKE CORP.	1993	77-2	57580515	04/01/1993	1262	103	6625	\$144
Y	A001195	DIGITAL MULTIMETER	FLUKE CORP.	NONE	73	51030365	NONE	1236	248	6625	\$650
Y	M095489	DIGITAL MULTIMETER	FLUKE CORP.	NONE	77-BN	54161234	NONE	1236	248	6625	\$75
N	1089338	DIGITAL PRESSURE GAUGE	RUSKA INSTRUMENTS	1991	6220	44136	12/01/1991	1236	248	6685	\$4,420
N	1089339	DIGITAL PRESSURE GAUGE	RUSKA INSTRUMENTS	1991	6220	43963	12/01/1991	1236	248	6685	\$4,420
N	1089403	DIGITAL PRESSURE GAUGE	RUSKA INSTRUMENTS	1992	6220	44278	01/01/1992	1236	220	6685	\$4,425
N	1157998	DIGITAL PRESSURE GAUGE	RUSKA INSTRUMENTS	1992	6220	45354	12/01/1992	1236	248	6685	\$4,600
Y	A001240	DIGITAL PRESSURE GAUGE	ROCHESTER INSTRUMENT SYSTEMS, IN	NONE	DPG-600	S-19986-1	NONE	1236	248	6685	\$150
N	1158070	DIGITAL PRESSURE INDICATOR	MENSOR CORP.	1993	14000	140567	01/01/1993	1236	248	6685	\$3,200
N	1158071	DIGITAL PRESSURE INDICATOR	MENSOR CORP.	1993	14000	140568	01/01/1993	1236	248	6685	\$3,200
Y	A001046	DIGITAL THERMOMETER	FLUKE CORP.	NONE	2168A	3475013	NONE	1236	248	6685	\$650
Y	1612560	DIGITIZER, MESSAGE PAD	COMPAQ COMPUTER CORP	1998	C140	P707BLN21661	06/29/1998	1209T	100A	7025	\$900
N	1085190	DISK DRIVE UNIT	HEWLETT-PACKARD CO	1991	C2213A	3117A14329	04/19/1991	1215	101	7025	\$7,575
N	1086756	DISK DRIVE UNIT	IMPRIIMS TECHNOLOGY	1991	F300	30849	07/01/1991	1199	101	7025	\$1,599
N	1087894	DISK DRIVE UNIT	CITA TECHNOLOGIES, INC.	1991	SA-H212B	6365	08/01/1991	1221	145	7025	\$4,249
N	1089613	DISK DRIVE UNIT	ANDATACO, INC.	1991	ADT702D	104000577	10/01/1991	1221	145	7025	\$2,109
N	801701	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	124G	TN500019	10/01/1992	1236	211A	7025	\$2,618
N	802110	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	41600N	MF039724	06/01/1992	1236	211	7025	\$2,500
N	1093286	DISK DRIVE UNIT	SUN MICRO SYSTEMS, INC.	1992	571	215F0006	06/01/1992	1236	220	7025	\$3,571
N	1093287	DISK DRIVE UNIT	SUN MICRO SYSTEMS, INC.	1992	571	215F0011	06/01/1992	1236	220	7025	\$3,571
N	1157121	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ598190	09/01/1992	1236	220	7025	\$2,312
N	1157122	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ601121	09/01/1992	1236	220	7025	\$2,312
N	1157123	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ600384	09/01/1992	1236	221	7025	\$2,312
N	1157124	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ600539	09/01/1992	1236	220	7025	\$2,312
N	1157125	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ602367	09/01/1992	1236	220	7025	\$2,312
N	1157126	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1992	ST41200N	TJ602442	09/01/1992	1236	220	7025	\$2,312
N	1157417	DISK DRIVE UNIT	MOUNTAINGATE DATA SYSTEMS, INC.	1992	MDB-DS2100CH	122071	10/01/1992	1236	220	7025	\$2,664
N	1157648	DISK DRIVE UNIT	MOUNTAINGATE DATA SYSTEMS, INC.	1992	MDB-DS2100CH	122070	10/01/1992	1236	220	7025	\$2,664
N	37719	DISK DRIVE UNIT	SIGMA INFORMATION SYSTEMS, INC.	1995	SA-H212B	3045	01/01/1996	1236	221	7025	\$9,923
N	1432187	DISK DRIVE UNIT	FALCON SYSTEMS INC	1995	105-1	413375	12/01/1995	1148	202	7025	\$2,465
N	1739483	DISK DRIVE UNIT	ANDATACO, INC.	1996	X490C31JX2S5X	DX942XV	10/01/1996	1236	211	7025	\$1,684
N	1604991	DISK DRIVE UNIT	ANDATACO, INC.	1997	S31X437JX2S5X	SS9721-073	04/01/1997	1236	211	7025	\$1,684
N	1611012	DISK DRIVE UNIT	FALCON SYSTEMS INC	1997	304-4	0JD639357	07/01/1997	1236	211	7025	\$1,339
N	1611013	DISK DRIVE UNIT	FALCON SYSTEMS INC	1997	304-4	0JD488053	07/01/1997	1236	211	7025	\$1,339
N	1611015	DISK DRIVE UNIT	FALCON SYSTEMS INC	1997	304-4	0JD764339	07/01/1997	1236	211	7025	\$1,339
N	1612613	DISK DRIVE UNIT	UNKNOWN (VERIFIED)	1998	NONE (VERIFIED)	NONE (VERIFIED)	10/01/1998	1236	211	7025	\$975
N	1881021	DISK DRIVE UNIT	SEAGATE TECHNOLOGY	1999	NONE (VERIFIED)	NONE (VERIFIED)	05/01/1999	1236	211	7025	\$696
N	1882356	DISK DRIVE UNIT	IMPEDIMENT INC	1999	DS100S4W	99180J0210	08/01/1999	1236	220	7025	\$2,040
N	2009724	DISK DRIVE UNIT	UNKNOWN (VERIFIED)	2000	NONE (VERIFIED)	NONE (VERIFIED)	10/01/2000	1236	211	7025	\$2,197
N	1885802	DISK STORAGE UNIT	PERIPHERAL PARTS SUPPORT INC	2000	BTB100541	98328-5823	07/01/2000	1250T	505	7025	\$1,775
N	467166	DISPLAY UNIT	AUDIOTRONICS CORP.	1982	10M91SRT	063318/063	04/01/1982	1236	220	5820	\$510
N	260184	DISPLAY UNIT	NEC TECHNOLOGIES, INC.	1986	JC1401P3A	62C01508K	08/01/1986	1236	222	7025	\$542
N	848470	DISPLAY UNIT	SONY CORP. OF AMERICA	1989	PVM1942Q	2000130	11/01/1989	1236	220	5820	\$1,550
N	1257777	DISPLAY UNIT	SONY CORP. OF AMERICA	1990	1950	5000939	01/01/1991	1236	221	7025	\$2,948
Y	1881431	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1990	GDM1604A15	010CJ5834	10/01/1990	1236	211	7025	\$2,000
N	6074853	DISPLAY UNIT	SONY CORP. OF AMERICA	1990	PVM1942Q	2000256	06/01/1990	1236	220	5820	\$1,505
N	6076157	DISPLAY UNIT	DAGE-MTI INC.	1990	HR2000	1422	07/01/1990	1236	220	5820	\$5,508
N	6076158	DISPLAY UNIT	DAGE-MTI INC.	1990	HR2000	1424	07/01/1990	1236	220	5820	\$5,508
N	1086808	DISPLAY UNIT	HEWLETT-PACKARD CO	1991	98785A	3020J36282	07/03/1991	1215	101	7025	\$5,422
N	A014248	DISPLAY UNIT	GATEWAY 2000	1991	PMV14VC	T9388696	10/01/1991	1215	101A	7025	\$400
N	21882	DISPLAY UNIT	PRESSURE SYSTEMS, INC.	1992	8470	9A8B0457	05/01/1992	1221B	145	6685	\$1,870
Y	1092574	DISPLAY UNIT	VIEWSONICS INC	1992	TX2013MV	3214901475	05/15/1992	1199	103	7025	\$1,775
N	1093288	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9150DX1165	06/01/1992	1236	220	7025	\$1,628
Y	1093289	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9146DX0883	06/01/1992	1236	241	7025	\$1,628
N	1156026	DISPLAY UNIT	LINK TECHNOLOGIES	1992	MC5	OBH1060002	06/01/1992	1236	220	7025	\$520
N	1156027	DISPLAY UNIT	LINK TECHNOLOGIES	1992	MC5	OBH1060076	06/01/1992	1236	220	7025	\$520
N	1156031	DISPLAY UNIT	LINK TECHNOLOGIES	1992	MC5	OBH1080201	06/01/1992	1236	221	7025	\$520
Y	1157112	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9220DX0506	09/01/1992	1236	242	7025	\$3,900
N	1157116	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9220DX0504	09/01/1992	1236	220	7025	\$3,900
N	1157132	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9220DX0499	09/01/1992	1236	220	7025	\$3,900
Y	1157136	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962	9220DX0503	09/01/1992	1236	242	7025	\$3,900
N	1157303	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1662	9152DN1392	10/01/1992	1236	221	7025	\$600

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	1157304	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1662	9143DN2738	10/01/1992	1236	240	7025	\$600
N	1157305	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1662	9152DM1397	10/01/1992	1236	220	7025	\$600
N	1881849	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962B	9311DX0866	10/01/1992	1236	220	7025	\$4,446
N	2008240	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1962B	9220DX0497	09/01/1992	1236	221	7025	\$3,900
N	2009082	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1992	GDM1662B	9143DY2117	10/01/1992	1236	220	7025	\$600
Y	1160024	DISPLAY UNIT	SONY CORP	1993	GDM1937	2006916	02/16/1993	1199	107	7025	\$2,383
Y	1256447	DISPLAY UNIT	SONY CORP. OF AMERICA	1993	GDM1962B	3100198	07/01/1993	1236	211	7025	\$3,900
N	1257128	DISPLAY UNIT	SONY CORP. OF AMERICA	1993	GDM2036S	7002405	08/01/1993	1236	220	7025	\$4,590
Y	1257234	DISPLAY UNIT	NEC TECHNOLOGIES	1993	JC2141UMA	37D22253A	08/01/1993	1130T2	203	7025	\$2,316
Y	1259178	DISPLAY UNIT	APPLE COMPUTER, INC.	1993	M1298	S43280ZCDO	12/01/1993	1236	242	7025	\$1,130
Y	1881253	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1993	GDM1962B	9309DX1439	07/01/1993	1236	211	7025	\$3,900
N	1881848	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1993	GDM1962B	9135CY3064	09/01/1993	1236	220	7025	\$3,900
Y	1883652	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1993	GDM20E20	9709GI3963	10/01/1993	1236	242	7025	\$3,900
Y	A014717	DISPLAY UNIT	INFOTEL	1993	P766D	333N2000U2	11/01/1993	1241	202	7025	\$400
Y	1261153	DISPLAY UNIT	COMPAQ COMPUTER CORP	1994	NONE	4172601B292	06/30/1994	1198	100	7025	\$1,084
N	1261264	DISPLAY UNIT	SONY CORP. OF AMERICA	1994	GDM1662B	9344DN1968	03/01/1994	1236	221	7025	\$1,250
N	1263232	DISPLAY UNIT	GATEWAY 2000	1994	CS1776LE	MH1934075446	04/26/1994	1215	101	7025	\$1,500
N	1263239	DISPLAY UNIT	HEWLETT-PACKARD CO	1994	C1064A	3349A22072	04/26/1994	1215	101	7025	\$895
N	1263848	DISPLAY UNIT	SONY CORP. OF AMERICA	1994	461	SSJ434A171	08/01/1994	647	107	7025	\$1,000
N	1422685	DISPLAY UNIT	NEC TECHNOLOGIES INC DIV	1994	JC1731VMA3	4705487AD	10/20/1994	1215	101	7025	\$1,230
N	A014249	DISPLAY UNIT	NEC TECHNOLOGIES	1994	5FGE	4990117LA	11/01/1994	1215	109	7025	\$400
N	A014250	DISPLAY UNIT	NEC TECHNOLOGIES	1994	5FGE	4990161LA	11/01/1994	1215	109	7025	\$400
N	35749	DISPLAY UNIT	PRESSURE SYSTEMS, INC.	1995	8470	HH27683	07/01/1995	1236	224	6685	\$1,739
N	35750	DISPLAY UNIT	PRESSURE SYSTEMS, INC.	1995	8470	HH27684	07/01/1995	1236	118	6685	\$1,739
Y	1425342	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1995	GDM20D10	9448FC1443	06/01/1995	1236	242	7025	\$3,900
Y	1428418	DISPLAY UNIT	SONY CORP. OF AMERICA	1996	GDM1262B	9316DX0644	03/01/1996	1236	117	7025	\$3,900
N	1428831	DISPLAY UNIT	MAG TECHNOLOGY CO	1996	DX17T	MH2754361666	05/13/1996	1215	101	7025	\$759
Y	1428903	DISPLAY UNIT	SONY CORP	1996	CPD20SF2	2113153	05/16/1996	1275	103	7025	\$1,768
N	1741692	DISPLAY UNIT	MAG TECHNOLOGY CO., LTD.	1997	YE0711-02	MA59GA0039	04/01/1997	1236	220	7025	\$618
N	1741693	DISPLAY UNIT	MAG TECHNOLOGY CO., LTD.	1997	YE0711-02	MA59GB0061	04/01/1997	1236	220	7025	\$618
N	1741694	DISPLAY UNIT	MAG TECHNOLOGY CO., LTD.	1997	YE0711-02	MA59GB0098	04/01/1997	1236	220	7025	\$618
Y	1741706	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR53401681	04/16/1997	1199	104	7025	\$947
Y	1741708	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR53401610	04/16/1997	1199	107	7025	\$947
Y	1741709	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR53401616	04/16/1997	1199	101A	7025	\$947
Y	1741710	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR53401613	04/16/1997	1199	101	7025	\$947
Y	1741712	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR53401620	04/16/1997	1199	109	7025	\$947
Y	1742150	DISPLAY UNIT	NEC CORP	1997	JC2145UMA	6702702DF	04/03/1997	1188	100	7025	\$1,897
N	1742427	DISPLAY UNIT	INDUSTRIAL COMPUTER SOURCE	1997	9020R	6-26809000	04/01/1997	1236	220	7025	\$2,949
Y	1743097	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR52501377	06/19/1997	1229A	103	7025	\$947
Y	1743098	DISPLAY UNIT	ADC INTERNATIONAL	1997	21HLR	SR52501378	06/19/1997	1199	114	7025	\$947
Y	1874577	DISPLAY UNIT	VIEWSONICS INC	1997	P810-1M	Q571555345	09/23/1997	1199	107	7025	\$1,430
Y	1874606	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1997	GDM20E20	9732GI3274	09/01/1997	1236	242	7025	\$1,800
Y	1876013	DISPLAY UNIT	SONY CORP. OF AMERICA	1997	GDM20SE2T	2166276	01/01/1998	1130T2	203	7025	\$1,890
Y	1880002	DISPLAY UNIT	APPLE COMPUTER, INC.	1997	M3705	WR7110DC94	09/01/1997	1236	211	7025	\$1,589
Y	1876814	DISPLAY UNIT	GATEWAY 2000	1998	VIVITRON1100	711080316	04/01/1998	1236	122	7025	\$700
Y	1877384	DISPLAY UNIT	HEWLETT-PACKARD CO	1998	AR3-1AV	74944008	04/20/1998	1199	117	7025	\$1,305
Y	1877841	DISPLAY UNIT	HITACHI MFG CO	1998	CM630U511	T7F008311	06/11/1998	1215	103	7025	\$501
N	1877885	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1998	GDM501OPT	9805KH2493	06/01/1998	1236	220	7025	\$1,279
N	1877886	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1998	GDM501OPT	9805KH2495	06/01/1998	1236	220	7025	\$1,279
N	1877887	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1998	GDM90W10	9746KA0192	06/01/1998	1236	220	7025	\$3,000
N	1880090	DISPLAY UNIT	HEWLETT-PACKARD CO	1999	A4575A	JP85227891	02/11/1999	1215	101	7025	\$696
N	1880091	DISPLAY UNIT	HEWLETT-PACKARD CO	1999	A4575A	JP85227892	02/11/1999	1215	101	7025	\$696
Y	1880502	DISPLAY UNIT	MICRON ELECTRONICS	1999	UM09A11	8509A11019	02/01/1999	1236	118	7025	\$558
Y	1880504	DISPLAY UNIT	MICRON ELECTRONICS	1999	UM09A11	8509A11019	02/01/1999	1236	122	7025	\$558
Y	1880655	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	1999	GDM501OPT	3651383-01	02/01/1999	1236	241	7025	\$1,502
Y	1881377	DISPLAY UNIT	DELL ELECTRONICS, INC.	1999	D1226H	59119-D55T	04/01/1999	1265	110	7025	\$700
Y	1881789	DISPLAY UNIT	SONY CORP	1999	GDM500PS	7032873	08/17/1999	1275	103	7025	\$1,099
Y	1884568	DISPLAY UNIT	KDS COMPUTERS INC	2000	VS21E	1292031359	03/17/2000	1199	114	7025	\$675
N	1884743	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	2000	GDM1962B	9310DX1337	04/01/2000	1236	220	7025	\$3,900
N	1884918	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	2000	GDM1962B	9229DX0372	04/01/2000	1236	220	7025	\$3,900
Y	1885681	DISPLAY UNIT	APPLE COMPUTER, INC.	2000	M4868	WR019211H0	07/01/2000	1236	208	7025	\$1,709
N	1885855	DISPLAY UNIT	SONY CORP. OF AMERICA	2000	GDM1962B	9220DX0550	05/01/2000	1236	220	7025	\$4,446

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	2009020	DISPLAY UNIT	HITACHI LTD.	2000	CM811U PWS	HOG000169	09/01/2000	1236	125	7025	\$959
Y	2098747	DISPLAY UNIT	NEC TECHNOLOGIES, INC.	2001	FP955	S1451224ZA	07/01/2001	1146	218	7025	\$547
Y	2102567	DISPLAY UNIT	SUN MICRO SYSTEMS, INC.	2002	GDM501OPT	9929KN1393	09/01/2002	1148	202	7025	\$1,535
Y	1877771	DISPLAY UNIT	SCEPTRE	N/A	S763	8104Y002J00996	06/03/1998	1299T	400	N/A	\$568
Y	1156450	DISTILLATION UNIT, FREON	BARON-BLAKESLEE	1992	MRR30LE	62337	08/25/1992	1188	100	4620	\$17,165
Y	1083976	DRILL PRESS	WILTON CORP WILTON TOOL D	1991	5816	27897	03/25/1991	1284B	118	3410	\$1,519
Y	1429625	DRILL PRESS	WILTON CORP WILTON TOOL D	1996	52-12301	13145	07/05/1996	1199	111A	3413	\$17,739
Y	1431859	DRILL, CORE	MILWAUKEE ELECTRIC TOOL C	1996	4130-4D79	NONE (VERIFIED)	10/01/1996	1292	SHED	3413	\$1,839
Y	61606	DRILL, MAGNETIC, PORTABLE	HOUGEN MFG INC	1989	10915	2288	09/22/1989	1187	100	3413	\$1,947
Y	A014065	ELECTRONIC BALANCE	ACCULAB	NONE	V1200	974EBD039	NONE	1236	248	6670	\$265
N	1084312	EQUIPMENT RACK	NEFF INSTRUMENT CORP.	1991	500004	382	02/01/1991	1236	220	6625	\$2,400
N	1084448	EQUIPMENT RACK	NEFF INSTRUMENT CORP.	1991	500004	383	03/01/1991	1236	220	6625	\$2,400
N	1084486	EQUIPMENT RACK	NEFF INSTRUMENT CORP.	1991	500004	384	03/01/1991	1236	220	6625	\$2,400
N	1613262	ESP MODULE	PRESSURE SYSTEMS, INC.	1999	ESP-64HD	64519A	09/01/1999	1236	248	6685	\$10,364
N	1613264	ESP MODULE	PRESSURE SYSTEMS, INC.	1999	ESP-64HD	64521A	09/01/1999	1236	248	6685	\$10,364
N	A000153	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48704	NONE	1236	248	6685	\$7,000
N	A000240	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32221	NONE	1236	248	6685	\$5,000
N	A006399	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-64	64112	07/01/1993	1236	210	6685	\$10,489
N	A006401	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-64	64114	07/01/1993	1236	210	6685	\$10,489
N	A006402	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-64	64115	07/01/1993	1236	210	6685	\$10,489
N	A008011	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	A48940	05/01/1994	1236	248	6685	\$8,547
N	M033957	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32810	NONE	1236	248	6685	\$5,000
N	M094664	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48153	NONE	1236	117	6685	\$7,000
N	M094909	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48131	NONE	1236	248	6685	\$7,000
N	M095622	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48160	NONE	1236	248	6685	\$7,000
N	M095707	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	321369	NONE	1236	248	6685	\$5,000
N	M098036	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48077	NONE	1236	248	6685	\$7,000
N	M098165	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48047	NONE	1236	248	6685	\$7,000
N	M098272	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32587	06/01/1994	1236	248	6685	\$5,000
N	M098412	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32220	08/01/1994	1236	248	6685	\$5,000
N	M098413	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32111	08/01/1994	1236	248	6685	\$5,000
N	M098414	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-32	32223	08/01/1994	1236	248	6685	\$5,000
N	M099622	ESP MODULE	PRESSURE SYSTEMS, INC.	NONE	ESP-48	48171	NONE	1236	241	6685	\$7,000
Y	1879860	EVALUATOR, TEST SET	PDMA CORP	1998	5220	563	11/09/1998	1209T	100	4910	\$35,550
N	1085195	EXPANDER, INPUT/OUTPUT	HEWLETT-PACKARD CO	1991	98568A	6124A68340	04/19/1991	1215	101	5999	\$1,849
Y	1882524	FIBERSCOPE	OLYMPUS AMERICA, INC.	1999	1F65X1-13	M900021	06/01/1999	1236	123	6650	\$11,800
N	G074856	FILING SYSTEM	KARDEX SYSTEMS INC	1990	NONE	SERIES80	05/14/1990	1130T	203	7460	\$14,067
N	G074856	FILING SYSTEM	KARDEX SYSTEMS INC	1990	SERIES80	NONE	05/01/1990	1130T2	203	7460	\$14,067
N	G078055	FILING SYSTEM	KARDEX SYSTEMS INC	1990	18577	LK-S80M	08/29/1990	1130T	203	7460	\$13,879
N	G078055	FILING SYSTEM	KARDEX SYSTEMS INC	1990	LKS80M	18577	08/01/1990	1130T2	203	7460	\$13,879
Y	G079853	FILTER BUGGY	SCHROEDER BROTHERS CORP	N/A	HFB2KEV1.5	6572	01/28/1991	1187	100	N/A	\$1,145
Y	1742393	FILTER UNIT	SHARP CONTROLS COMPANY	1997	L085-10916	226420	04/02/1997	1187	100	4320	\$1,114
Y	1425786	FILTERING UNIT	VELCON FILTERS INC	1995	T030A	94272	08/23/1995	642	YARD	4330	\$10,350
Y	1430563	FILTRATION UNIT, BETA CART	DIAGNETICS INC	1996	BC100-2G3LV4WMV	96207-1	08/07/1996	1187	100	4330	\$2,564
N	A028133	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF75SM	981000919	NONE	1236	243	6680	\$650
N	A028134	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF75SM	B12033	NONE	1236	243	6680	\$650
N	A028135	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF25SM	R12211	NONE	1236	243	6680	\$650
N	A028136	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-FSF25SM	B12211	NONE	1236	243	6680	\$650
N	A028137	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF25SM	B12211	NONE	1236	243	6680	\$650
N	A028138	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF25SM	B12211	NONE	1236	243	6680	\$650
N	A028139	FLOW MONITOR	UNIVERSAL FLOW MONITORS, INC.	NONE	SN-ESF75SM	981000918	NONE	1236	243	6680	\$650
Y	429015	FUEL TANK TRUCK	INTERNATIONAL HARVESTER	1981	1724818	BHB19841	03/01/1981	1215	N1871	2320	\$13,544
Y	1086428	FUME HOOD	FISHER SCIENTIFIC CO	1991	93608Q	NONE	08/12/1991	1188	100	4240	\$3,489
N	A000251	GALVANOMETER AMPLIFIER	BELL AND HOWELL	NONE	1-172-26	4051	NONE	1236	248	5996	\$750
N	A000252	GALVANOMETER AMPLIFIER	BELL AND HOWELL	NONE	1-172-26	4034	NONE	1236	248	5996	\$650
N	1875476	GAS DETECTOR	RKI INSTRUMENTS, INC.	1997	201 (EAGLE)	E7X015	11/01/1997	1236	115	6665	\$1,750
Y	A022972	GAS DETECTOR	GASTECH, INC.	NONE	OX95	9845046	11/01/1999	1236	122	6665	\$475
Y	A022973	GAS DETECTOR	GASTECH, INC.	NONE	OX95	9844118	NONE	1236	122	6665	\$475
N	549169	GAS MONITOR	GASTECH, INC.	1984	1220A	84122	07/01/1984	1277	CX18	6665	\$1,350
N	1743342	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2016RK	PR77001	10/01/1997	1236	220	6665	\$2,900
N	1743343	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2016RK	PR77002	10/01/1997	1236	123	6665	\$2,900
N	1743344	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2016RK	PR77003	10/01/1997	1236	220	6665	\$2,900

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	1743345	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2016RK	PR77004	10/01/1997	1242	101	6665	\$2,900
N	1743346	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2016RK	PR77005	10/01/1997	1236	220	6665	\$2,900
N	1743347	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P76005	10/01/1997	1236	125	6665	\$1,200
N	1743348	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P76006	10/01/1997	1236	BASE	6665	\$1,200
N	1743349	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P76007	10/01/1997	1236D	100	6665	\$1,200
N	1743350	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P76004	10/01/1997	1236	116	6665	\$1,200
N	1743351	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P76009	10/01/1997	1236	TUNN	6665	\$1,200
N	1743352	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P760010	10/01/1997	1235	100	6665	\$1,200
N	1743353	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P760011	10/01/1997	1236	117	6665	\$1,200
N	1743354	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P760012	10/01/1997	1241	100	6665	\$1,200
N	1743355	GAS MONITOR	RKI INSTRUMENTS, INC.	1997	72-2040RK	P760013	10/01/1997	1236	123	6665	\$1,200
N	C001001	GAS MONITOR	GASTECH, INC.	NONE	1220	AE - 3	NONE	1236	109B	6630	\$500
Y	1636308	GAUGE, PRESSURE	DRESSER INDUSTRIES INC	2000	PM	42174	03/23/2000	1284B	118	6685	\$1,595
Y	428035	GAUGE, THICKNESS	SONIC INSTRUMENTS INC	1979	502	791222	03/30/1979	1187	100	5210	\$2,325
Y	428036	GAUGE, THICKNESS, STUD, ULTSNC	EG AND G TORQUE SYSTEMS	1979	5222	1	10/17/1979	1187	100	5210	\$5,950
Y	1260879	GENERATOR	SONIC SYSTEMS INC	1994	4010	NONE (VERIFIED)	02/28/1994	1188	100	6630	\$2,500
Y	138148	GENERATOR, DIESEL	KOHLER CO ENGINE PLANT DIV	N/A	80R022101	32744	03/09/1987	1199	N1586	N/A	\$15,533
Y	59541	GENERATOR, GASOLINE, PORTABLE	HONDA MOTOR CO LTD	1989	EX2200	EA2-1006999	03/14/1989	1199	SHOP	6115	\$1,285
Y	1258503	GENERATOR, GASOLINE, PORTABLE	HONDA MOTOR CO LTD	1993	E56500	1065169	10/12/1993	1188	100	6115	\$2,849
Y	258588	GENERATOR, SIGNAL	DYNATECH NEVADA F-EXACT E	1983	502DA	30670	12/09/1983	1199	100	6625	\$1,010
Y	1876957	GENERATOR, SIGNAL	IRIS POWER ENGINEERING IN	1998	NONE (VERIFIED)	0038-PG98	03/20/1998	1209T	100	6625	\$3,085
Y*	NONE	GEODETC TRIPOD 1.8M	NONE	NONE	NONE	NONE	NONE	1209T7	700	NONE	\$750
Y	1262127	GRINDING MACHINE	CINCINNATI ELECTRICAL TOO	1994	101	248995	05/17/1994	1199	113	3419	\$6,097
N	1090780	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-40	203M3310	03/01/1992	1221	145	7021	\$6,628
Y	1157113	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M5199	09/01/1992	1236	241	7021	\$5,399
Y	1157115	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M4189	09/01/1992	1236	117	7021	\$5,399
N	1157118	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M4114	09/01/1992	1236	220	7021	\$5,399
Y	1157119	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0050	09/01/1992	1236	242	7021	\$5,399
Y	1157130	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M3920	09/01/1992	1236	242	7021	\$5,399
Y	1157133	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M4138	09/01/1992	1236	241	7021	\$5,399
Y	1157134	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	235M3933	09/01/1992	1236	240	7021	\$5,399
N	1157135	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0632	09/01/1992	1236	220	7021	\$5,399
N	1157236	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0723	10/01/1992	1236	220	7021	\$8,097
Y	1157237	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0759	10/01/1992	1236	242	7021	\$8,097
N	1157238	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0728	10/01/1992	1236	220	7021	\$8,097
N	1157239	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	Apr-50	236M0898	10/01/1992	1236	220	7021	\$8,097
N	1158366	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1992	SPARC 10/41	238F3588	10/01/1992	1236	220	7021	\$18,533
Y	1256450	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1993	144	326F0006	07/01/1993	1236	211	7021	\$14,690
N	1257410	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1993	Apr-40	135M0598	08/01/1993	1236	221	7021	\$4,800
N	1258216	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1993	447	337F3160	09/01/1993	1236	220	7021	\$4,723
N	1261267	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1994	447	407E0995	03/01/1994	1236	220	7021	\$5,465
Y	1874539	HIGH END GRAPHICS WORKSTATION	SUN MICRO SYSTEMS, INC.	1997	A12	736FC32F	09/01/1997	1148	202	7021	\$4,838
Y	1158513	HOIST, RESCUE, PERSONNEL	WGM SAFETY CORP MILLER EQ	1992	5850SS	53608V	10/28/1992	1199	111	3950	\$1,746
Y	1878786	HYDRAULIC PUMP	ENERPAC	1998	PUM1200B	E1396C	08/01/1998	1236	115	4320	\$1,662
Y	527679	HYDRAULIC TEST STAND	OGDEN TECHNOLOGY LABORATO	1969	7997KS	1001	09/01/1969	1284B	118	4935	\$17,600
Y	427583	HYDRAULIC TEST STAND	HYDRAULICS INTERNATIONAL	1977	ST-PM50-1	NONE	02/11/1977	1188	100	4935	\$31,970
Y	37137	HYDRAULIC TORQUE	HYTORC DIV UNEX CORP	1996	HY3XLT	E5386	07/01/1996	1187	100	6670	\$4,465
Y	1637152	HYDROMETER	ANTON PARR K G	2001	DMA35N	505024	07/30/2001	1188	100	6685	\$1,995
N	2009573	HYGROMETER	EDGE TECHNOLOGIES	2000	DEWPRIME III	26372	11/01/2000	1236	IH	6685	\$9,500
N	M099330	HYGROMETER	EG & G, INC.	NONE	300	11967	NONE	1247E	100	6685	\$750
N	A012780	HYGROMETER SENSOR	EG & G, INC.	NONE	S809R	S809R	12/01/1997	1247E	100	6685	\$5,000
N	A028671	HYGROMETER SENSOR	EDGE TECHNOLOGIES	NONE	3C1020M	06A99	NONE	1236	IH	6685	\$850
Y	M099569	HYGROMETER/THERMOMETER PROBE	OMEGA ENGINEERING, INC.	NONE	H91	T7	10/01/1992	1236	248	6685	\$350
Y	1088969	ICE MAKING MACHINE	MANITOWOC CO INC	1991	600	920162318	10/03/1991	1199	116	4110	\$2,414
N	1089234	ICE POINT REFERENCE	KAYE INSTRUMENTS, INC.	1991	K170-24C	111175	11/01/1991	1236	118	6685	\$2,333
Y	527681	INDICATOR, PRESSURE	DRESSER INDUSTRIES INC	1981	711	572796	05/07/1981	1284B	118	6685	\$2,075
Y	527682	INDICATOR, PRESSURE	DRESSER INDUSTRIES INC	1981	711A	S7-2793	03/02/1981	1284B	118	6685	\$1,250
Y	847224	INDICATOR, PRESSURE	EATON CORP CONTROLS DIV	1989	UPS3000AAC	A1381	09/18/1989	1188	102	6685	\$1,705
Y	847225	INDICATOR, PRESSURE	EATON CORP CONTROLS DIV	1989	UPS3000AEB	A1380	12/27/1989	1188	102	6685	\$1,705
Y	846923	INDICATOR, PRESSURE, DIGITAL	EATON CORP CONTROLS DIV	1989	UPS3000ACC	A1365	08/25/1989	1188	102	6685	\$1,795
Y	G075608	INDICATOR, PRESSURE, DIGITAL	EATON CORP CONTROLS DIV	1990	UPS3000EA	1818	06/27/1990	1188	102	6685	\$1,699
Y	G075609	INDICATOR, PRESSURE, DIGITAL	EATON CORP CONTROLS DIV	1990	UPS3000BC	1817	06/27/1990	1188	102	6685	\$1,699

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	1428090	INDICATOR, PRESSURE, DIGITAL	EATON CORP CONTROLS DIV	1995	UPS3000AGA	A02042	01/16/1996	1188	102	6685	\$3,150
Y	NONE	INDUCTIVE CLAMP	METRO-TECH	N/A	N/A	6PSM100	N/A	N/A	SURVEY ROOM	N/A	\$235
N	1636557	INFRARED CAMERA	HUFFMAN, C.E., ENTERPRISES	2000	S604LPH	NONE (VERIFIED)	08/01/2000	1236	TUNN	6720	\$725
N	53036	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1987	620601	251	12/01/1987	1148	104	6625	\$26,880
N	140089	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1987	620601	160	06/01/1987	1148	104	6625	\$3,840
N	140095	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1987	620601	183	06/01/1987	1148	104	6625	\$3,840
N	G073694	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1990	620601	358	02/01/1990	1221C	203	6625	\$26,880
N	1084481	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1991	620601	426	03/01/1991	1236	220	6625	\$3,840
N	1084482	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1991	620601	446	03/01/1991	1236	220	6625	\$3,840
N	1084483	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1991	620601	451	03/01/1991	1236	220	6625	\$3,840
N	1084898	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1991	620601	484	04/01/1991	1148	104	6625	\$3,840
N	1090499	INPUT ASSEMBLY EXPANDER	NEFF INSTRUMENT CORP.	1992	620601	441	02/01/1992	1236	220	6625	\$26,880
N	52931	INPUT OUTPUT CHASSIS	GOULD, INC.	1987	AS-P453-612	16008	12/01/1987	1221C	203	7025	\$1,515
N	52929	INPUT OUTPUT MODULE	GOULD, INC.	1987	S901	2817	12/01/1987	1221C	203	7025	\$1,318
Y	A002126	INSIDE MICROMETER	S-T INDUSTRIES, INC.	NONE	10-0090-00	NTF01	NONE	1236	125	5210	\$450
N	1158419	INTERFACE CONTROLLER	MODULAR COMPUTER SYSTEMS, INC.	1992	124G	NONE	10/01/1992	1236	220	7025	\$6,300
Y	2098113	INTERFACE UNIT	PDMA CORP	2001	A186506342	01020379ED	05/23/2001	1209T	406	7025	\$4,500
Y	138606	INTERFACE UNIT, ADP	MOORE PRODUCTS CO	1987	320	15738119	01/20/1987	1188	100	7025	\$2,100
Y	1878435	LABELING MACHINE, KEYBOARD	BRADY W H CO	1998	LC100K	4C0020681	09/24/1998	1292	114	3540	\$3,247
Y	38615	LASER HEAD	COMPUTATIONAL SYSTEMS INC	1996	B8210-01	649155	01/09/1997	1189	108	5860	\$7,000
Y	38616	LASER HEAD	COMPUTATIONAL SYSTEMS INC	1996	B8210-02	649155	01/09/1997	1189	108	5860	\$7,000
Y	258192	LASER PRINTER	HEWLETT PACKARD	1986	2686A	2550J16241	01/01/1981	1236	125	7025	\$2,637
Y	258891	LASER PRINTER	HEWLETT PACKARD	1986	2686	2602J27593	06/01/1986	1236	125	7025	\$2,637
Y	G079082	LASER PRINTER	HEWLETT PACKARD	1990	LASERJET III	3033A47366	11/01/1990	1236	125	7025	\$1,595
N	1160437	LASER PRINTER	QUALITY MICRO SYSTEMS, INC.	1993	1725-1	Q0071789	04/01/1993	1236	220	7025	\$6,077
Y	1255348	LASER PRINTER	HEWLETT PACKARD	1993	LASERJET IV	USBC193261	07/01/1993	1236	125	7025	\$1,558
Y	1257282	LASER PRINTER	HEWLETT PACKARD	1993	LASERJET III	3033A52312	08/01/1993	1236	101	7025	\$1,889
Y	1882538	LASER PRINTER	EPSON AMERICA, INC.	1999	P892A	3KDY064061	09/01/1999	1236	248	7025	\$798
Y	1882835	LASER PRINTER	HEWLETT PACKARD	1999	C4253A	USBB131720	09/01/1999	1236	HALL	7025	\$1,384
N	2009728	LASER PRINTER	HEWLETT PACKARD	2000	C4253A	USBB361962	10/01/2000	1236	220	7025	\$1,459
N	2009729	LASER PRINTER	HEWLETT PACKARD	2000	C4089A	JPHCD16387	10/01/2000	1236	220	7025	\$2,909
Y	427600	LATHE, ENGINE	SPRINGFIELD MACHINE TOOL	1964	S	64022	11/01/1964	1199	113	3416	\$16,400
Y	1612030	LENS, INFRARED, TELESCOPE	FLIR SYSTEMS-BOSTON INC N	1998	08419-201	NONE (VERIFIED)	04/03/1998	1209T	403	6760	\$7,950
Y	138934	LENS, MOTOR DRIVEN	VICON INDUSTRIES INC	1987	V16-160AC	20472	02/13/1987	1284B	118	6760	\$1,125
Y	NONE	LEVEL AUTO	LEITZ	N/A	N/A	09222/ECN054	N/A	N/A	SURVEY ROOM	N/A	\$1,435
Y	NONE	LEVEL PRECISION W/ TRIPOD	N/A	N/A	N/A	25275	N/A	N/A	SURVEY ROOM	N/A	\$600
Y	NONE	LEVEL ROD	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	LEVEL ROD, 25 FT.	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	849354	LIFT, PERSONNEL	GENIE INDUSTRIES	1989	PLC24	1489-19083-B	01/29/1990	1244	ANNX	4940	\$4,577
N	55203	LINE PRINTER	PRINTRONIX	1988	P6040	109755	05/01/1988	1236	117	7025	\$4,839
N	G077526	LINE PRINTER	PRINTRONIX	1990	P9012	904747	09/01/1990	1236	220	7025	\$10,084
N	1255286	LINE PRINTER	PRINTRONIX	1993	P9012	810199	06/01/1993	1236	220	7025	\$9,964
Y	2101592	LINE STRIPPER, TRAFFIC	GRACO INC F-GRACO LUBER	1994	231132	3397	12/12/1994	1292	100	3895	\$5,266
Y	NONE	LINE TRACER, PIPE & CABLE	N/A	N/A	N/A	015839/ECN08	N/A	N/A	SURVEY ROOM	N/A	\$1,898
N	418631	LIQUID NITROGEN DEWAR	MVE, INC.	1982	VLS3000	115	03/01/1979	1236	OUTSI	4930	\$27,895
Y	141913	LOCATOR, FAULT, CABLE	HIPOTRONICS INC	1987	CF70/25-12C	17546	07/15/1987	1188	100	6625	\$9,200
Y	470789	LOCKFORMER	LOCKFORMER CO	1981	20	206248	12/21/1981	1198	100	3449	\$2,635
Y	1877805	MACHINERY FAULT SIMULATOR	DESIGN ASSISTANCE CORP	1998	203	128	06/04/1998	1209T	407	6625	\$5,580
Y	801728	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1992	4540NT	LAA34310	10/01/1992	1236	211	7025	\$1,539
N	801729	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1992	4540NT	LAA24402	10/01/1992	1236	220	7025	\$1,539
Y	1093290	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1992	411	214G1762	06/01/1992	1236	211	7025	\$640
N	1093291	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1992	411	214G1753	06/01/1992	1236	220	7025	\$640
N	1157120	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1992	X559A	235G0030	09/01/1992	1236	220	7025	\$776
N	1157301	MAGNETIC TAPE RECORDER	HEWLETT PACKARD	1992	88780B	3200A06735	10/01/1992	1236	220	7025	\$12,480
N	1255618	MAGNETIC TAPE RECORDER	ANDATACO, INC.	1993	X150A51JX252X	BA067715	05/01/1993	1236	220	7025	\$761
Y	1257411	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1993	411	144G0199	08/01/1993	1236	241	7025	\$796
N	A014251	MAGNETIC TAPE RECORDER	COLORADO MEMORY SYSTEMS	1995	250MB	361509	02/01/1995	1215	109	7025	\$290
N	1611362	MAGNETIC TAPE RECORDER	SUN MICRO SYSTEMS, INC.	1997	611	734G4950	09/01/1997	1236	241	7025	\$1,969
Y	2009725	MAGNETIC TAPE TRANSPORT	STORCASE TECHNOLOGY INC	2000	DS60S1W	00215D5701	10/01/2000	1236	211	7025	\$3,149
N	2009726	MAGNETIC TAPE TRANSPORT	STORCASE TECHNOLOGY INC	2000	DS60S1W	00215D5702	10/01/2000	1236	220	7025	\$3,149
N	2009727	MAGNETIC TAPE TRANSPORT	STORCASE TECHNOLOGY INC	2000	DS60S1W	00180D5095	10/01/2000	1236	220	7025	\$3,149
N	418637	MALE THREAD GAGE	BASIC TOOL CO.	1979	NASA SPECS	NONE	03/01/1979	1236	TUNN	5210	\$2,988

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	418638	MALE THREAD GAGE	BASIC TOOL CO.	1979	NASA SPECS	NONE	01/01/1993	1236	TUNN	5210	\$2,988
Y	A002128	MANDREL MICROMETER	S-T INDUSTRIES, INC.	NONE	05-0006-04	M06-282	NONE	1236	125	5210	\$450
Y	61624	MEGGER	AVO BIDDLE INSTRUMENTS FM	1989	BM11	R-1362	10/03/1989	1188	100	6625	\$3,527
Y	1880094	MEGGER	AVO BIDDLE INSTRUMENTS FM	1999	218650	NONE (VERIFIED)	02/17/1999	1188	100	6625	\$4,535
Y	419549	MEGOHMMETER	BIDDLE INSTRUMENTS	1963	MD638	1537226	06/01/1963	1241	102	6625	\$1,522
Y	847504	MEGOHMMETER	BIDDLE INSTRUMENTS	1989	BM11	R1366	10/01/1989	1241	202	6625	\$3,300
N	52927	MEMORY MODULE	GOULD, INC.	1987	M907	5643	12/01/1987	1221C	203	7025	\$1,318
Y	470740	METER, VIBRATION	SPM INSTRUMENTS AB	1979	43A MODIFIED	716186	07/06/1979	1199	113	6625	\$1,575
Y	59425	MICRO AUTO FILLER	MINOLTA CORP	1989	418606	1503	01/24/1989	1130T	203	6730	\$3,525
N	A029663	MICROBAROGRAPH	BENDIX CORP.	NONE	790-1	300	NONE	1236	248	6685	\$300
Y	1158212	MICROFICHE READER/PRINTER	CANON USA	1992	32031	32201654	10/01/1992	1236	101	6730	\$9,178
Y	NONE	MICROFICHE/JACKET READER	REALISTIC	N/A	N/A	N/A	N/A	1130T2	200	N/A	\$150
Y	1160404	MICROMANOMETER, DIGITAL	TRANSCAT	1993	MP20SR	1110115	04/06/1993	1188	102	6685	\$1,970
Y	A002127	MICROMETER	S-T INDUSTRIES, INC.	NONE	02-0852-14	NTF03	NONE	1236	125	5210	\$450
Y	C002359	MICROMETER	S-T INDUSTRIES, INC.	NONE	02-0851-14	148582	NONE	1236	125	6650	\$250
Y	C003267	MICROMETER	S-T INDUSTRIES, INC.	NONE	02-0851-14	NTF-12	NONE	1236	122	5210	\$250
Y	1084925	MICROSCOPE	MILLIPORE CORP	1991	7610000	9040045	04/02/1991	1188	100	6650	\$2,246
Y	803350	MICROSCOPE	PEAK OPTICAL	1994	SHOP MICRO	NONE (VERIFIED)	04/04/1994	1209T	100	6650	\$640
Y	37323	MICROSCOPE	PRIOR SCIENTIFIC INST UNI	1996	NONE (VERIFIED)	NONE (VERIFIED)	08/02/1996	1209T	100	6650	\$1,695
Y	427597	MILLING MACHINE	KEARNEY & TRECKER F-GORTO	1979	I22	NONE	01/19/1979	1199	111A	3417	\$7,832
N	1156024	MINI COMPUTER	MODULAR COMPUTER SYSTEMS, INC.	1992	9088-4	B8J-F22012	06/01/1992	1236	220	7021	\$102,175
N	1156025	MINI COMPUTER	MODULAR COMPUTER SYSTEMS, INC.	1992	9088-4	B8J-F22012	06/01/1992	1236	220	7021	\$97,650
N	1156030	MINI COMPUTER	MODULAR COMPUTER SYSTEMS, INC.	1992	9088-4	B8J-F22011	06/01/1992	1236	220	7021	\$96,680
N	1256210	MINI COMPUTER	MODULAR COMPUTER SYSTEMS, INC.	1993	9088-2	D86-N22033	06/01/1993	1148	104	7021	\$79,590
Y	2009720	MINI COMPUTER	SUN MICRO SYSTEMS, INC.	2000	E450 (SERVER)	039H30A5	10/01/2000	1236	211	7021	\$32,916
Y	NONE	MINI-PRISM SET	NIKON	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	1880837	MIXING MACHINE, PAINT	RED DEVIL INC	1999	562210	93D8373	04/07/1999	1292	100	4940	\$1,244
Y	1157730	MODEM, COMMUNICATIONS	FALCON SYSTEMS INC	1992	2004AM	A1220043080	10/13/1992	1215	103	5895	\$598
N	1263255	MODEM, COMMUNICATIONS	MOTOROLA COMMUNICATIONS A	1994	V32E LCD RM16M	13270	04/26/1994	1215	101	5895	\$1,000
Y	1426448	MONITOR, FERROUS WEAR	COMPUTATIONAL SYSTEMS INC	1995	51FW	1060	09/12/1995	1209T	401	6665	\$8,995
Y	61510	MONITOR, GAS	DYNAMATION INC	1989	1541	5928	09/05/1989	1289	100	6665	\$1,113
Y	61511	MONITOR, GAS	DYNAMATION INC	1989	1541	5927	09/05/1989	1289	100	6665	\$1,113
Y	61512	MONITOR, GAS	DYNAMATION INC	1989	1541	5926	09/05/1989	1289	100	6665	\$1,113
Y	1741765	MONITOR, GAS	INDUSTRIAL SCIENTIFIC COR	1997	LTX310	9702015-066	04/25/1997	1215	115	6665	\$1,377
Y	849543	MONITOR, TELEVISION	SHARP ELECTRONICS CORP	1990	XM2701	312429	03/29/1990	1209	150	5820	\$790
Y	6074764	MONITOR, TELEVISION	MATSUSHITA ELEC INDUS CO	1990	CT2010Y	FA0140279	05/17/1990	1199	111	5820	\$521
Y	1604842	MONITOR, TELEVISION	SONY CORP	1997	FDL-X40	501147	03/18/1997	1209T	109	5820	\$2,500
N	144510	MONITOR, TRANSMISSION	SCIENTIFIC-ATLANTA INC	1988	1003B	82	02/08/1988	1215	101	7025	\$2,500
Y	1874207	MONITORING KIT, CONDITION	SKF CONDITION MONITORING	1997	CMPK40PLUS	1062	09/03/1997	1209T	100	6685	\$2,160
Y	61640	MOTOR DRIVE	RIGID LTD	1989	300	7620184	10/10/1989	1187	100	6110	\$1,240
Y	847611	MOTOR DRIVE	RIGID LTD	1989	300	7621328	10/13/1989	1188	100	6110	\$1,947
Y	847808	MOTOR DRIVE	RIGID LTD	1989	300	NONE	12/04/1989	1187	100	6110	\$2,009
Y	463938	MOTOR GENERATOR SET	CATERPILLAR TRACTOR CO	N/A	3304	4810232	03/05/1976	1199	N1854	N/A	\$22,055
Y	463940	MOTOR GENERATOR SET	CATERPILLAR TRACTOR CO	N/A	3304	4810158	03/05/1976	1199	N1855	N/A	\$22,055
N	A019469	MULTIMETER	TRIPLETT CORP.	NONE	631	3472	NONE	1236	248	6625	\$550
N	846615	MULTIPLEXER	GANDALF DATA, INC.	1989	GLM518	1462	08/01/1989	1236	220	7025	\$640
N	846616	MULTIPLEXER	GANDALF DATA, INC.	1989	GLM518	1470	08/01/1989	1236	220	7025	\$640
N	846620	MULTIPLEXER	GANDALF DATA, INC.	1989	GLM518	1480	08/01/1989	1236	220	7025	\$640
N	846621	MULTIPLEXER	GANDALF DATA, INC.	1989	GLM518	1482	08/01/1989	1236	222	7025	\$640
N	846622	MULTIPLEXER	GANDALF DATA, INC.	1989	GLM518	1481	08/01/1989	1236	119	7025	\$640
N	467232	MULTIPOINT HP-IB EXTENDER	HEWLETT PACKARD	1982	37203A	2040002398	02/01/1982	1236	220	7025	\$1,712
N	A011695	NTF AOA PACKAGE	LANGLEY RESEARCH CENTER	NONE	NTF202	2	NONE	1236	248	6680	\$2,000
N	A013669	NTF AOA PACKAGE	LANGLEY RESEARCH CENTER	NONE	NTF114	1	08/01/1998	1236	248	6610	\$3,000
Y	1425080	OHMMETER	AVO BIDDLE INSTRUMENTS FM	1995	DLRO	43639	05/12/1995	1188	100	6625	\$6,455
Y	1429584	OHMMETER, DIGITAL	AVO BIDDLE INSTRUMENTS FM	1996	247001	44584	06/24/1996	1188	100	6625	\$3,100
Y	548148	OIL FILTER/TRANSFER UNIT	SCHROEDER BROTHERS CORP	1984	NONE	NONE	11/20/1984	1187	100	4330	\$1,347
Y	548149	OIL FILTER/TRANSFER UNIT	SCHROEDER BROTHERS CORP	1984	NONE	NONE	11/20/1984	1187	100	4330	\$1,347
Y	1424861	OIL PUMP, FILTRATION	SCHROEDER BROTHERS CORP	1995	MFB2KW2K3-1-5	NONE	05/04/1995	1187	100	4330	\$1,808
Y	1424904	OIL PUMP, FILTRATION	SCHROEDER BROTHERS CORP	1995	MFB2KW2K3-1-5	NONE	06/20/1995	1187	100	4330	\$1,855
Y	56578	OSCILLOSCOPE	TEKTRONIX INC	1988	2215	8021583	06/26/1990	1188	102	6625	\$1,344
Y	6079321	OSCILLOSCOPE	HITACHI DENSHI LTD.	1990	V-209	58678	11/01/1990	1262	101	6625	\$840
Y	527481	OSCILLOSCOPE, PORTABLE	TEKTRONIX INC	1983	475A	8025756	04/01/1983	1209	100	6625	\$4,478

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	56581	OSCILLOSCOPE, PORTABLE	TEKTRONIX INC.	1988	221	B020950	06/26/1990	1188	102	6625	\$1,344
Y	G078108	OVEN, DRYING	HENKEL INC.	1990	K1000	NONE	10/03/1990	1223	100	4430	\$1,879
Y	1636677	OXYGEN ANALYZER	GASTECH, INC.	1993	OX91	9321167	06/01/1993	1236	123	6630	\$640
Y	1636678	OXYGEN ANALYZER	GASTECH, INC.	1993	OX91	9321164	06/01/1993	1236	222	6630	\$640
Y	801505	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9250409	06/01/1993	1236	125	6630	\$675
Y	802125	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321111	06/01/1993	1236	125	6630	\$640
Y	802126	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321112	06/01/1993	1236	125	6630	\$640
Y	802128	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321114	06/01/1993	1236	125	6630	\$640
Y	802129	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321115	06/01/1993	1236	125	6630	\$640
Y	802130	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321117	06/01/1993	1236	125	6630	\$640
Y	802132	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321119	06/01/1993	1236	125	6630	\$640
Y	802133	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321120	06/01/1993	1236	125	6630	\$640
Y	802134	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321141	06/01/1993	1236	125	6630	\$640
Y	802136	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321143	06/01/1993	1236	125	6630	\$640
Y	802137	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321144	06/01/1993	1236	125	6630	\$640
Y	802139	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321146	06/01/1993	1236	248	6630	\$640
Y	802140	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321149	06/01/1993	1236	125	6630	\$640
Y	802141	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321150	06/01/1993	1236	125	6630	\$640
Y	802144	OXYGEN MONITOR	GASTECH, INC.	1993	OX91	9321170	06/01/1993	1236	248	6630	\$640
N	1875740	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	1998	72-2040RK	P78005	01/01/1998	1236	117	6665	\$1,200
Y	A022946	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	OX-94	9X4010464	11/01/1999	1236	122	6630	\$395
Y	A022947	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	OX-94	94X4010462	11/01/1999	1236	122	6630	\$395
Y	A022948	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	OX-94	94X4010456	11/01/1999	1236	122	6630	\$395
N	C000603	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A01	NONE	1236	220	6665	\$995
N	C000604	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A02	NONE	1236	220	6665	\$995
N	C000605	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A03	NONE	1236	220	6665	\$150
N	C000606	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A04	NONE	1236	220	6665	\$250
N	C000607	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A05	NONE	1236	220	6630	\$250
N	C000608	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	220	6630	\$250
N	C000609	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A07	NONE	1236	220	6665	\$250
N	C000610	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A08	NONE	1236	220	6630	\$525
N	C000611	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A09	NONE	1236	220	6665	\$250
N	C000612	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	220	6630	\$250
N	C000613	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	220	6630	\$250
N	C000614	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B02	NONE	1236	220	6665	\$250
N	C000615	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A13	NONE	1236	220	6665	\$350
N	C000616	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A14	NONE	1236	220	6665	\$350
N	C000617	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	220	6630	\$525
N	C000618	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22A16	NONE	1236	220	6665	\$250
N	C000619	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B11	NONE	1236	220	6665	\$995
N	C000620	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B12	NONE	1236	220	6665	\$525
N	C000621	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B13	NONE	1236	220	6665	\$525
N	C000622	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B14	NONE	1236	220	6665	\$525
N	C000623	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 3601	NONE	1236	220	6630	\$525
N	C000624	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 36D01	NONE	1236	220	6665	\$150
N	C000625	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	NONE	NONE	1236A	100	6630	\$150
N	C000626	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 36A01	NONE	1236A	100	6630	\$525
N	C000627	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	NONE	NONE	1235	103	6665	\$250
N	C000628	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 3502	NONE	1235	103	6630	\$250
N	C000629	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	NONE	NONE	1241	100	6665	\$500
N	C000630	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 4102	NONE	1241	BSMT	6665	\$150
N	C000631	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-13	NONE	1242B	100	6630	\$150
N	C000632	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-12	NONE	1242	301	6630	\$525
N	C000633	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-11	NONE	1242	106	6630	\$525
N	C000634	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-10	NONE	1242	106	6630	\$525
N	C000635	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-8	NONE	1242	106	6665	\$500
N	C000636	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-7	NONE	1242	106	6665	\$250
N	C000637	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-6	NONE	1242	106	6630	\$525
N	C000638	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-5	NONE	1242	100	6665	\$250
N	C000639	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-4	NONE	1242	101W	6630	\$525
N	C000640	OXYGEN MONITOR	RKI INSTRUMENTS, INC.	NONE	PIONEER	D-3	NONE	1242	101E	6630	\$525
N	C000641	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-2	NONE	1236	109B	6665	\$150

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	C000642	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-1	NONE	1242	LN2	6665	\$150
N	C000995	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 1-1	NONE	1236	22	6665	\$150
N	C000996	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 1-2	NONE	1236	117	6665	\$500
N	C000997	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 2-1	NONE	1236	117	6665	\$150
N	C000998	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	AE 2-2	NONE	1236	22	6665	\$500
N	C001000	OXYGEN MONITOR	GASTECH, INC.	NONE	1620	82299	08/01/1994	1236	22	6665	\$150
N	C001277	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	D-13	NONE	1236	106	6630	\$525
N	C001278	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B01	NONE	1236	224	6665	\$525
N	C001279	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B02	NONE	1236	224	6665	\$525
N	C001280	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B03	NONE	1236	224	6665	\$525
N	C001281	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B04	NONE	1236	224	6665	\$525
N	C001282	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	115	6630	\$525
N	C001283	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	115	6630	\$525
N	C001284	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	115	6630	\$525
N	C001285	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	NONE	NONE	1236	115	6630	\$525
N	C001286	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C05	NONE	1236	115	6665	\$525
N	C001287	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C06	NONE	1236	224	6665	\$525
N	C001288	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C07	NONE	1236	224	6665	\$525
N	C001289	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C08	NONE	1236	224	6665	\$525
N	C002652	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B09	NONE	1236	220	6665	\$500
N	C002653	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B10	NONE	1236	220	6665	\$500
N	C002654	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C09	NONE	1236	220	6665	\$500
N	C002655	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22C10	NONE	1236	220	6665	\$500
N	C003715	OXYGEN MONITOR	GASTECH, INC.	NONE	1621	AE 22B08	NONE	1236	220	6630	\$525
Y	C003837	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX1157	NONE	1236	135	6665	\$525
Y	C003838	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX1158	08/01/1985	1241	201	6665	\$525
Y	C003839	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX0753	NONE	1236	220	6665	\$525
Y	C003840	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX0756	11/01/1984	1236	220	6665	\$525
Y	C003841	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX1156	08/01/1985	1236	117	6665	\$525
Y	C003842	OXYGEN MONITOR	GASTECH, INC.	NONE	OX82	OX1155	08/01/1985	1236	117	6665	\$525
N	A013308	OXYGEN SENSOR	RKI INSTRUMENTS, INC.	NONE	65-0601RK	742015147	06/01/1998	1236	115	6685	\$130
N	1423939	PAN TILT UNIT	AMERICAN DYNAMICS	1994	AD1218DCP	6251	01/01/1995	1236	TUNN	5836	\$1,038
N	1423940	PAN TILT UNIT	AMERICAN DYNAMICS	1994	AD1218DCP	605	01/01/1995	1236	248	5836	\$1,038
N	1423941	PAN TILT UNIT	AMERICAN DYNAMICS	1994	AD1218DCP	6124	01/01/1995	1236	243	5836	\$1,038
N	1423942	PAN TILT UNIT	AMERICAN DYNAMICS	1994	AD1218DCP	6062	01/01/1995	1236	TUNN	5836	\$1,038
N	1739629	PAN TILT UNIT	PRO/FOUR VIDEO PRODUCTS, INC.	1996	1100RP	NONE (VERIFIED)	11/01/1996	1236	TUNN	5836	\$1,615
Y	52871	PERSONAL COMPUTER	STANDARD BRAND PRODUCTS	1987	286	12115	11/01/1987	1221C	203	7021	\$1,915
N	G076441	PERSONAL COMPUTER	INDUSTRIAL COMPUTER SOURCE	1990	7515-33H05	90052202	08/01/1990	1236	220	7025	\$3,050
N	G076442	PERSONAL COMPUTER	INDUSTRIAL COMPUTER SOURCE	1990	7515	90052201	09/01/1990	1236	220	7025	\$12,106
N	G076443	PERSONAL COMPUTER	INDUSTRIAL COMPUTER SOURCE	1990	7515	90052203	08/01/1990	1236	220	7025	\$19,912
Y	1087977	PERSONAL COMPUTER	COMTRADE	1991	386	NONE	09/01/1991	1236	125	7021	\$1,500
Y	1255610	PERSONAL COMPUTER	TWINHEAD CORP.	1993	486	C0401595	05/01/1993	1236	234	7021	\$4,471
Y	1256038	PERSONAL COMPUTER	APPRO INTERNATIONAL, INC.	1993	486/DX/33	482901	08/01/1993	1236	220	7021	\$2,470
Y	1257404	PERSONAL COMPUTER	GATEWAY 2000	1993	486/33	352581	08/01/1993	1236	122	7021	\$3,695
Y	1257406	PERSONAL COMPUTER	GATEWAY 2000	1993	486/33	352582	08/01/1993	1236	119	7021	\$3,295
N	1257408	PERSONAL COMPUTER	COPAM ELECTRONICS CORP.	1993	PC286S120	8928007026	08/01/1993	1236	222	7021	\$3,695
N	1258082	PERSONAL COMPUTER	IBI SYSTEMS, INC.	1993	SP5100	1020	09/01/1993	1236	220	7021	\$16,475
Y	1258950	PERSONAL COMPUTER	MIDWEST MICRO	1993	ELITE486	NONE (VERIFIED)	11/01/1993	1241	202	7021	\$2,296
N	1425220	PERSONAL COMPUTER	VIDEO & TELECOMMUNICATIONS, INC.	1995	NONE (VERIFIED)	CT96050603	06/01/1995	1236	220	7021	\$2,431
N	1425221	PERSONAL COMPUTER	VIDEO & TELECOMMUNICATIONS, INC.	1995	NONE (VERIFIED)	CT96050603	06/01/1995	1236	220	7021	\$2,431
N	1425222	PERSONAL COMPUTER	VIDEO & TELECOMMUNICATIONS, INC.	1995	NONE (VERIFIED)	CT96050603	06/01/1995	1236	220	7021	\$2,028
Y	1427098	PERSONAL COMPUTER	NORTECH IMAGING	1995	PENTIUM	60253	10/01/1995	1221C	203	7021	\$3,400
Y	1427976	PERSONAL COMPUTER	MICROMAX DISTRIBUTION	1995	NONE (VERIFIED)	NONE (VERIFIED)	01/01/1996	1236	122	7021	\$1,826
Y	1427983	PERSONAL COMPUTER	MICRON ELECTRONICS	1995	M54LI-MT-P90	476733-000	01/01/1996	1221C	203	7021	\$2,927
Y	1428292	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1996	POWERMAC9500	XB53202A5U	02/01/1996	1236	211	7021	\$4,821
N	1428785	PERSONAL COMPUTER	MEDIATEK-MF SOURCES, INC.	1996	P5X2	NONE (VERIFIED)	05/01/1996	1236	222	7021	\$2,318
Y	1431155	PERSONAL COMPUTER	GOVERNMENT MICRO RESOURCES, INC.	1996	MMT-REM2000	379	08/01/1996	1236	125	7021	\$1,230
N	1741100	PERSONAL COMPUTER	GATEWAY 2000	1996	ATX TOWER	6381523	01/01/1997	1209T	810	7021	\$2,272
Y	1741210	PERSONAL COMPUTER	MICRO CONCEPTS OF VIRGINIA, INC.	1997	AT11750	8207-3	01/01/1997	1236	125	7021	\$2,033
Y	1741211	PERSONAL COMPUTER	MICRO CONCEPTS OF VIRGINIA, INC.	1997	AT11750	8207-3	01/01/1997	1236	119	7021	\$2,033
Y	1741212	PERSONAL COMPUTER	MICRO CONCEPTS OF VIRGINIA, INC.	1997	AT11750	8207-3	01/01/1997	1236	125	7021	\$2,033
N	1741675	PERSONAL COMPUTER	MICRON ELECTRONICS	1997	M55HPLUS2P200MT	859476-000	04/01/1997	1209T	809	7021	\$2,781



# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	1741676	PERSONAL COMPUTER	MICRON ELECTRONICS	1997	M55H1PLUS2P200MT	859476-000	04/01/1997	1209T	800	7021	\$2,781
Y	1741678	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1997	PRO200	NONE (VERIFIED)	04/01/1997	1230	264	7021	\$8,243
Y	1741679	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1997	NONE	NONE (VERIFIED)	04/01/1997	1146	209	7021	\$8,243
N	1741680	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1997	NONE	NONE (VERIFIED)	04/01/1997	1236	220	7021	\$8,243
N	1741681	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1997	NONE	NONE (VERIFIED)	04/01/1997	1236	220	7021	\$8,243
Y	1873491	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1997	M3979	XA72317LA6	07/01/1997	1247H	106A	7021	\$2,755
Y	1874056	PERSONAL COMPUTER	MICRON ELECTRONICS	1997	ANCHORAGE233M-MT	977783	08/01/1997	1265	110	7021	\$2,263
Y	1874913	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1997	M5433	XB7360MYAD	10/01/1997	1236	241	7021	\$3,461
Y	1875688	PERSONAL COMPUTER	DELL ELECTRONICS, INC.	1997	MMS	C8WGR	12/01/1997	1236	232	7021	\$2,097
N	1875995	PERSONAL COMPUTER	GMR	1997	MASTER SERIES 2000	NONE (VERIFIED)	01/01/1998	1209T	800	7021	\$4,706
Y	1876813	PERSONAL COMPUTER	GATEWAY 2000	1998	LP MINI TOWER	9565887	04/01/1998	1236	122	7021	\$1,863
Y	1877407	PERSONAL COMPUTER	DTK CO INC F-VELTRI FRANK AND	1998	QUINN57	B981000068	05/01/1998	1241	202	7021	\$808
Y	1877470	PERSONAL COMPUTER	DTK CO INC F-VELTRI FRANK AND	1998	NONE (VERIFIED)	B981000086	07/01/1998	1241	202	7021	\$882
N	1877884	PERSONAL COMPUTER	SUN MICRO SYSTEMS, INC.	1998	ULTRA60	819FC76F	06/01/1998	1236	220	7021	\$12,364
Y	1878137	PERSONAL COMPUTER	MICRON ELECTRONICS	1998	AL440LX-P11266T	1271457-00	07/01/1998	1236	240	7021	\$2,125
Y	1878138	PERSONAL COMPUTER	MICRON ELECTRONICS	1998	AL440LX-P11266T	1271457-00	07/01/1998	1236	243	7021	\$2,125
N	1878266	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1998	NONE (VERIFIED)	NONE (VERIFIED)	08/01/1998	1236	220	7021	\$5,737
Y	1879104	PERSONAL COMPUTER	NETWORK COMPUTING DEVICES, INC	1998	EXPLORA701	0988Z00422	09/01/1998	1148	114	7021	\$2,011
N	1879937	PERSONAL COMPUTER	NATIONAL AERONAUTICS AND SPACE A	1998	NONE (VERIFIED)	NONE (VERIFIED)	11/01/1998	1236	220	7021	\$1,804
N	2009637	PERSONAL COMPUTER	GATEWAY 2000	1998	LP MINI TOWER	10321640	08/01/1998	648	109	7021	\$2,436
Y	1880482	PERSONAL COMPUTER	MICRON ELECTRONICS	1999	SE440BX2P11450T	1547086-00	02/01/1999	1236	241	7021	\$1,813
Y	1880501	PERSONAL COMPUTER	MICRON ELECTRONICS	1999	SE440BX2P11450T	1547086-00	02/01/1999	1236	248	7021	\$1,813
N	1880656	PERSONAL COMPUTER	SUN MICRO SYSTEMS, INC.	1999	ULTRA60	906F201B	02/01/1999	1236	220	7021	\$10,551
Y	1880847	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M6670LL/A	SG9096NBFQ	04/01/1999	1236	241	7021	\$1,599
Y	1880855	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M6670LL/A	XB9084R6FQ	03/01/1999	1236	241	7021	\$1,429
Y	1880968	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M5183	XA9090M1FQ	03/01/1999	1146	218	7021	\$2,244
Y	1881486	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M5183	SG917CEFG3	05/01/1999	1146	218	7021	\$1,795
Y	1882177	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M5183	XA9R2VWEWD	08/01/1999	1236	242	7021	\$2,288
Y	1882753	PERSONAL COMPUTER	APPLE COMPUTER, INC.	1999	M5183	XB9233TCGH	09/01/1999	1146	218	7021	\$1,805
Y	1883121	PERSONAL COMPUTER	GATEWAY 2000	1999	LP MINI TOWER	15530756	09/01/1999	1236	125	7021	\$1,304
Y	1636266	PERSONAL COMPUTER	FUJITSU AMERICA LTD.	2000	FPC95-0408	89168928	03/01/2000	1236	248	7021	\$1,499
N	1883994	PERSONAL COMPUTER	DELL ELECTRONICS, INC.	2000	DCM	BME0X	01/01/2000	1130T2	203	7021	\$1,860
Y	1884319	PERSONAL COMPUTER	DELL ELECTRONICS, INC.	2000	MMP	G33UY	04/01/2000	1212	210	7021	\$2,204
Y	1884589	PERSONAL COMPUTER	MICRON ELECTRONICS	2000	SE440BX2T-P111500T	1993134-00	03/01/2000	1236	125	7021	\$1,578
N	1884598	PERSONAL COMPUTER	TECHNOLOGY DISTRIBUTION NETWORK	2000	TDNP18200ATXMMT	510918	03/01/2000	1236	220	7021	\$2,344
N	1884984	PERSONAL COMPUTER	MICRON ELECTRONICS	2000	S1854T-PLLL800	2213542-00	04/01/2000	1209	120E	7021	\$2,783
N	1884996	PERSONAL COMPUTER	DELL	2000	WCP	4DALH	05/02/2000	1209	150D	7021	\$4,036
Y	1885139	PERSONAL COMPUTER	MICRON ELECTRONICS	2000	S1854T-PIII533	2269328-00	05/01/2000	1265	110	7021	\$1,574
N	2009131	PERSONAL COMPUTER	DELL ELECTRONICS, INC.	2000	MMS	99LT101	09/01/2000	1221	145	7021	\$2,497
Y	2102332	PERSONAL COMPUTER	DELL ELECTRONICS, INC.	2002	DHM	8LSWS11	08/01/2002	1236	240	7021	\$1,953
Y	404516	PHASE DELAY UNIT	AVO MULTI-AMP CORP/MULTI-	1984	CS7B	32483	02/03/1984	1274	100	6685	\$5,195
Y	1255649	PHASER MEDIA LAMINATOR	TEKTRONIX	1993	469LAM	8021288	05/01/1993	1236	125	7025	\$907
Y	847620	PIPE BENDER, ELECTRIC	GREENLEE TOOL CO	1989	5555B	WL11043-LFC	10/17/1989	1187	100	3441	\$4,255
Y	847654	PIPE BENDER, HYDRAULIC	GREENLEE TOOL CO	1989	881CT	NONE	10/24/1989	1187	100	3441	\$7,113
Y	428055	PIPE PREPARATION SYSTEM	MACHINE TECH F-WILMONT FL	1979	6208	15409-01	07/27/1979	1187	100	5110	\$5,888
Y	426357	PLANER, WOODWORKING	OLIVER MACHINERY CO	1946	8IN X24IN	64180	04/01/1946	1292	100	3220	\$1,805
N	140385	PLOTTER, GRAPHICS	HEWLETT-PACKARD CO	1987	7550A	2631A49153	04/20/1987	1215	109A	7025	\$2,613
N	1085792	PLOTTER, GRAPHICS	HEWLETT-PACKARD CO	1991	7550B	3050A15343	06/11/1991	1215	101	7025	\$2,769
Y	1741715	PLOTTER/GRAPHICS	CALCOMP INC A LOCKHEED CO	1997	24163-001	9709720010	04/16/1997	1199	216	7025	\$905
Y	284706	PNEUMATIC HOIST	GARDNER-DENVER MINING & CONSTRU	1973	862V40L	NONE	08/01/1973	1247H	TOWER	3950	\$1,334
Y	284707	PNEUMATIC HOIST	GARDNER-DENVER MINING & CONSTRU	1973	862V40L	NONE	09/01/1973	1247H	TOWER	3950	\$1,334
Y	142828	PNEUMATIC HOIST	JET EQUIPMENT & TOOLS	1987	JET SERIES	8100744	08/01/1987	1247E	100	3950	\$1,754
Y*	1612078	PORTABLE DATA LOGGER	TRIMBLE NAVIGATION LTD.	1998	29673-00	220116767	04/01/1998	1209T7	700	5820	\$1,350
Y	A006892	PORTABLE OSCILLOSCOPE	IWATSU INSTRUMENTS, INC.	NONE	SS5702	92242029	NONE	1236	109B	6625	\$401
Y	M094923	PORTABLE PRESSURE PUMP	ASHCROFT GAUGE CO.	NONE	1327-86	2BH-26298	NONE	1236	248	6685	\$350
Y	423006	POSITIONER, WELDING	RANSONE WM H AND CO	1974	30P	NONE	03/01/1974	1156	YARD	3436	\$4,340
Y	2101651	POWER ANALYZER	DRANETZ TECHNOLOGIES F-DR	2002	PP4300	430EXA048	06/28/2002	1188	100	6625	\$9,230
N	418104	POWER SUPPLY	HEWLETT PACKARD	1981	6274B	2031A05428	12/01/1981	1236	223	6130	\$1,200
N	418105	POWER SUPPLY	HEWLETT PACKARD	1981	6274B	2031A05413	12/01/1981	1236	220	6130	\$1,200
N	466695	POWER SUPPLY	HEWLETT PACKARD	1981	6274B	2031A05442	12/01/1981	1236	223	6130	\$1,200
N	466697	POWER SUPPLY	HEWLETT PACKARD	1981	6274B	2031A05436	12/01/1981	1236	222	6130	\$1,200
Y	284818	POWER SUPPLY	VEECO INSTRUMENTS	1983	LGS-EA28-OV-R	B44104	04/01/1983	1262	101	6130	\$1,100

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	52930	POWER SUPPLY	GOULD, INC.	1987	AS-P930-007	3481	12/01/1987	1221C	203	6130	\$2,125
N	54328	POWER SUPPLY	HEWLETT PACKARD	1988	6274B	2713A09360	03/01/1988	1236	223	6130	\$1,467
Y	54329	POWER SUPPLY	HEWLETT PACKARD	1988	6274B	2713A09362	03/01/1988	1230	264	6130	\$1,467
N	144514	POWER SUPPLY	STAR MICRONICS	1988	AD8340	220087502740	02/08/1988	1215	101	6130	\$5,000
N	846276	POWER SUPPLY	BEST POWER TECHNOLOGY INC	1989	FC5KVA	CK501630	07/05/1989	1215	101	6130	\$5,491
N	1257681	POWER SUPPLY	NORMAN ENTERPRISES, INC.	1993	4000PS	138209	12/01/1993	1236	222	6130	\$1,575
N	1258083	POWER SUPPLY	IBI SYSTEMS, INC.	1993	SP5100EXP	1019	09/01/1993	1236	220	6130	\$1,000
Y	1431022	POWER SUPPLY	PRIOR SCIENTIFIC INST UNI	1996	B515M	832	08/02/1996	1209T	100	6130	\$1,000
Y	1431745	POWER SUPPLY	NORMAN ENTERPRISES, INC.	1996	4000PS	149510	09/01/1996	1247D	102	6130	\$1,663
N	2009361	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132895	10/01/2000	1236	222	6130	\$1,719
N	2009362	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132894	10/01/2000	1236	222	6130	\$1,719
N	2009363	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132896	10/01/2000	1236	222	6130	\$1,719
N	2009364	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132893	10/01/2000	1236	222	6130	\$1,719
N	2009565	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132901	11/01/2000	1236	222	6130	\$1,719
N	2009566	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132902	11/01/2000	1236	222	6130	\$1,719
N	2009567	POWER SUPPLY	KEPCO, INC.	2000	JQE100-5M	132906	11/01/2000	1236	222	6130	\$1,719
N	A001260	POWER SUPPLY	HEWLETT PACKARD	NONE	6203B	6K1451	NONE	1236	248	6130	\$450
N	A004213	POWER SUPPLY	TRYGON ELECTRONICS	NONE	HR40-5	33564	11/01/1994	1236	248	6130	\$450
N	A004260	POWER SUPPLY	COHU, INC.	NONE	9860-000/BR7932	4-0179	12/01/1994	1230	248	6130	\$450
N	A004261	POWER SUPPLY	DYNAIR ELECTRONICS	NONE	PS-1006B	218694H2	12/01/1994	1236	248	6130	\$450
N	A004265	POWER SUPPLY	DYNAIR ELECTRONICS	NONE	PS-1006B	261175-B6	12/01/1994	1236	248	6130	\$450
N	A004269	POWER SUPPLY	DYNAIR ELECTRONICS	NONE	PS-1006B	223438K2	12/01/1994	1236	248	6130	\$450
N	A006893	POWER SUPPLY	HEWLETT PACKARD	NONE	6203B	6K1474	NONE	1236	109B	6130	\$650
N	A011129	POWER SUPPLY	HEWLETT PACKARD	NONE	6443B	1930A02269	NONE	1236	248	6130	\$750
N	A019476	POWER SUPPLY	HEWLETT PACKARD	NONE	6433B	1142A02330	NONE	1236	248	6130	\$650
N	A028583	POWER SUPPLY	PERKIN ELMER CORP.	NONE	PS-450	160	NONE	1236	245	6130	\$350
N	C003479	POWER SUPPLY	EDWARDS HIGH VACUUM INT'L	NONE	699	201-260	01/01/1982	1236	220	6130	\$787
N	C003480	POWER SUPPLY	EDWARDS HIGH VACUUM INT'L	NONE	699	201-259	01/01/1982	1236	220	6130	\$787
N	M094810	POWER SUPPLY	EDWARDS HIGH VACUUM INT'L	NONE	699	707-285	NONE	1236	248	6130	\$600
N	M094963	POWER SUPPLY	EDWARDS HIGH VACUUM INT'L	NONE	699	111	NONE	1236	248	6130	\$600
N	M094965	POWER SUPPLY	KEPCO, INC.	NONE	KS18-10M	H-45274	NONE	1236	248	6130	\$750
N	A001348	POWER SUPPLY RACK CHASSIS	DATA CHECK CORP.	NONE	1801	1068	NONE	1236	248	6625	\$750
N	A000297	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1064	NONE	1236	248	6130	\$450
N	A000298	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1069	NONE	1236	248	6130	\$450
N	A000299	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1219	NONE	1236	248	6130	\$450
N	A000300	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1068	NONE	1236	248	6130	\$450
N	A000301	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1065	NONE	1236	248	6130	\$450
N	A000302	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1225	NONE	1236	248	6130	\$450
N	A000303	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1222	NONE	1236	248	6130	\$450
N	A000304	POWER UNIT	PCB PIEZOTRONICS, INC.	NONE	484B	1220	NONE	1236	248	6130	\$450
Y	849554	POWER UNIT, HYDRAULIC WRENCH	HYTORC DIV UNEX CORP	1990	SST10	703319	04/05/1990	1187	100	4940	\$3,711
Y	1423497	POWER UNIT, HYDRAULIC WRENCH	HYTORC DIV UNEX CORP	1991	SST10	704038	03/01/1991	1187	100	4940	\$3,711
N	1425521	POWER WINCH	CORDEM CORP.	1995	15-Dec	111178	07/01/1995	1236	19	3950	\$1,125
Y	427603	PRESS, HYDRAULIC	OWATONNA TOOL CO DBA OTC	1977	NONE	1010	09/28/1977	1199	113	3444	\$2,358
Y	398784	PRESS, HYDRAULIC	JET EQUIPMENT & TOOLS	1986	HP35	5H015A	11/03/1986	1156	YARD	3444	\$1,560
N	846410	PRESSURE BIASING NETWORK	PRESSURE SYSTEMS, INC.	1989	780B-PCU	153	07/01/1989	1236	222	6685	\$1,495
N	846457	PRESSURE BIASING NETWORK	PRESSURE SYSTEMS, INC.	1989	780B-PCU	153	07/01/1989	1236	222	6685	\$1,495
N	847973	PRESSURE BIASING NETWORK	PRESSURE SYSTEMS, INC.	1989	780B-PCU	153	06/01/1989	1236	222	6685	\$1,495
N	1157957	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1992	8432	724	11/01/1992	1221D	126	6685	\$6,050
N	1157958	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1992	8432	721	11/01/1992	1221C	123	6685	\$6,050
N	1157959	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1992	8432	723	11/01/1992	1221C	125	6685	\$6,050
N	1159673	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1993	8433	768	01/01/1993	1221D	126	6685	\$7,700
N	1426287	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1995	8433	1126	09/01/1995	1236	222	6685	\$7,161
N	1426288	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1995	8433-15D	1127	09/01/1995	1236	220	6685	\$6,189
N	1426289	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1995	8433-30D	1128	09/01/1995	1236	220	6685	\$6,189
N	1426290	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1995	8433	1129	09/01/1995	1236	220	6685	\$6,189
N	1428058	PRESSURE CALIBRATION UNIT	PRESSURE SYSTEMS, INC.	1997	8433	1479	12/01/1997	1236	222	6685	\$6,566
N	A000460	PRESSURE GAUGE	DWYER INSTRUMENTS, INC.	NONE	43320	M27BDB45	NONE	1236	248	6685	\$350
N	A000461	PRESSURE GAUGE	DWYER INSTRUMENTS, INC.	NONE	43320	M27BDB46	NONE	1236	248	6685	\$350
N	A003053	PRESSURE GAUGE	ASHCROFT MANUFACTURING CO.	NONE	Q-4904	Q-4904	NONE	1236	248	6685	\$450
N	M094130	PRESSURE GAUGE	ASHCROFT MANUFACTURING CO.	NONE	K500	Q-8601	NONE	1236	248	6685	\$150
N	21818	PRESSURE INDICATING SWITCH	ITT BARTON INSTRUMENT CO.	1991	288	44220	02/01/1988	1236	115	6685	\$1,260

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	A001374	PRESSURE TRANSDUCER	SETRA SYSTEMS, INC.	NONE	204	30495	NONE	1236	248	6685	\$450
N	A002694	PRESSURE TRANSDUCER	ENDEVCO	NONE	8507C-5	F84G	NONE	641	206	6685	\$950
N	A029662	PRESSURE TRANSDUCER	SETRA SYSTEMS, INC.	NONE	205-2	1252609	NONE	1236	IH	6685	\$750
N	M095746	PRESSURE TRANSDUCER	ENDEVCO	NONE	8507C-5	F66G	NONE	1236	248	6685	\$950
N	61658	PRINTER	HP	1989	2934A	2844A52596	04/01/1989	1215	101	7025	N/A
N	G076425	PRINTER	HP	1990	33449A	3022A46778	N/A	N/A	103	N/A	N/A
N	1429109	PRINTER PLOTTER	HP	1996	DESIGNJET 755	ESA6205482	05/02/1996	1209T7	700	7025	\$9,875
Y	1739731	PRINTER PLOTTER	CALCOMP, INC.	1996	5336GT/PS	9622716013	11/01/1996	1236	243	7025	\$4,485
N	1885217	PRINTER PLOTTER	HP	2000	C4704A	SG01C32010	05/02/2000	1209T8	800	7025	\$10,118
N	140693	PRINTER, ADP	HEWLETT-PACKARD CO	1987	2932A	2714A39132	05/07/1987	1215	101	7025	\$1,839
N	140694	PRINTER, ADP	HEWLETT-PACKARD CO	1987	2932A	2714A39134	05/07/1987	1215	101	7025	\$1,839
N	144513	PRINTER, ADP	STAR MICRONICS	1988	DP8340	2100 7100 1240	02/08/1988	1215	101	7025	\$11,000
N	61658	PRINTER, ADP	HEWLETT-PACKARD CO	1989	2934A	2844A52596	04/24/1989	1215	101	7025	\$1,739
N	1155901	PRINTER, ADP	SEIKO INSTRUMENTS INC	1992	CH5500S	24J73900	08/19/1992	1199	216	7025	\$5,099
Y	1158413	PRINTER, ADP	HEWLETT-PACKARD CO	1992	33449A	K1169868	10/23/1992	1215	114	7025	\$2,149
Y	1262793	PRINTER, ADP	HEWLETT-PACKARD CO	1994	C2003A	USB8937861	08/26/1994	1209	125	7025	\$715
N	1423028	PRINTER, ADP	EPSON AMERICA INC	1994	LQ870	40U1071802	11/28/1994	1215	101	7025	\$594
N	1423031	PRINTER, ADP	EPSON AMERICA INC	1994	LQ870	40U1071789	11/18/1994	1215	101	7025	\$594
Y	1875913	PRINTER, ADP	LEXMARK INTL INC	1997	OPTRA S1250	11K5976	01/02/1998	1209T	404A	7025	\$1,299
Y	1877382	PRINTER, ADP	HEWLETT-PACKARD CO	1998	6P	USCD071237	04/20/1998	1199	104	7025	\$779
Y	1877415	PRINTER, ADP	HEWLETT-PACKARD CO	1998	1P-C4213A	USCH048479	05/27/1998	1188	103	7025	\$778
Y	1878413	PRINTER, ADP	HEWLETT-PACKARD CO	1998	6P	USCH058792	08/05/1998	1199	109	7025	\$782
Y	1878414	PRINTER, ADP	HEWLETT-PACKARD CO	1998	6P	USCH058803	08/05/1998	1199	122	7025	\$782
Y	802959	PRINTER, ADP, LABEL	KROY INC	1993	K2000	1083066	11/01/1993	1187	100	7025	\$1,000
N	1879352	PRINTER, LASER	HP	1998	C4087A	USCB023192	09/02/1998	1209T8	800	7025	\$2,975
N	1881188	PRINTER, LASER	HP	1999	C3984A	JPCB006814	04/02/1999	1209	106	7025	\$6,476
N	1885227	PRINTER, LASER	TEKTRONIX	2000	Z780	J20D2C9	05/02/2000	1209T8	800	7025	\$5,728
Y	2008627	PRINTER/PLOTTER	HEWLETT PACKARD	2000	C3198B	ESB0425895	09/01/2000	1236	101	7025	\$7,495
N	2101987	PRINTER/PLOTTER	IMATION ENTERPRISES CORP	2002	K66-2	6602020486	07/01/2002	1130T2	205	7025	\$11,000
Y	38592	PROBE, TEMPERATURE	COMPUTATIONAL SYSTEMS INC	1996	A510A1	1071	12/13/1996	1209T	403	6650	\$1,950
Y	1431002	PROBE, TEMPERATURE	COMPUTATIONAL SYSTEMS INC	1996	510	64602	08/02/1996	1209T	100	6650	\$1,950
Y	1431003	PROBE, TEMPERATURE	COMPUTATIONAL SYSTEMS INC	1996	510	64609	08/02/1996	1209T	406	6650	\$1,950
N	52926	PROCESSOR COMMUNICATIONS MODULE	GOULD, INC.	1987	C921	5961	12/01/1987	1221C	203	6685	\$1,318
N	52928	PROCESSOR CONTROL MODULE	GOULD, INC.	1987	C916AS984A116	7128 (4944)	12/01/1987	1221C	203	6685	\$1,318
Y	425964	PROCESSOR, MICROFORM	BELL & HOWELL CO	1978	466573	ABR505	10/12/1978	1130T	208	6730	\$2,823
Y	425965	PROCESSOR, MICROFORM	BELL & HOWELL CO	1978	409215	ABR504	10/12/1978	1130T	208	6730	\$2,444
Y	429812	PULLER, GEAR HYD/HAND	SEALED POWER CORP	1977	IP55317	6481	12/19/1977	1293B	106	5120	\$4,732
Y	1425959	PULLER, POWER CABLE	GREENLEE TOOL CO	1986	640	23616180	10/02/1986	1187	100	5120	\$1,215
N	A004257	PULSE AMPLIFIER	COHU, INC.	NONE	9080201-00	2-0935	12/01/1994	1230	248	5996	\$450
Y	1159386	PUMP	IMO INDUSTRIES, INC.	1993	A3DB337	S5223-01	01/01/1993	1236	116	4320	\$5,990
Y	G076356	PUMP, AIR	WILDEN PUMP AND ENGINEER	1990	M8KT/TF/TF/KT	153662	08/02/1990	1188	100	4310	\$4,383
Y	1086230	PUMP, AIR	WILDEN PUMP AND ENGINEER	1991	M2KT/TF/TF/KT	216161	07/15/1991	1188	100	4310	\$1,195
Y	1089967	PUMP, AIR	WILDEN PUMP AND ENGINEER	1991	M4KT-TF-TF-KT	231923	12/09/1991	1188	100	4310	\$2,100
Y	1261747	PUMP, AIR	WILDEN PUMP AND ENGINEER	1994	M4-KT-TF-TF-KT	418311	04/15/1994	1188	100	4310	\$2,398
Y	1091405	PUMP, BOOSTER	TELEDYNE SPRAGUE ENGINEER	1992	S486JN100	S-486-JN-100-014-92	03/04/1992	1188	102	4310	\$2,048
Y	1876546	PUMP, CENTRIFUGAL	GORMAN-RUPP CO THE	1996	14C2F140	804338	02/19/1998	1199	NE13	4320	\$6,725
Y	2098297	PUMP, GAS	TEEL INDUSTRIAL	1993	3P653	1990-04	04/15/1993	1156	YARD	4320	\$2,910
Y	53801	PUMP, HYDRAULIC	GREENLEE TOOL CO	1988	960M3	KS16142EB	05/02/1988	1187	100	4320	\$1,881
Y	144432	PUMP, LIQUID TRANSFER	GRACO INC F-GRACO LUBER	1988	6H733	J85AA418	02/08/1988	1289	100	4320	\$3,350
Y	61418	PUMP, LIQUID TRANSFER	GRACO INC F-GRACO LUBER	1989	218-320	NONE	07/18/1989	1247D	YARD	4320	\$2,177
Y	61419	PUMP, LIQUID TRANSFER	GRACO INC F-GRACO LUBER	1989	218-320	NONE	07/18/1989	1289	100	4320	\$2,177
Y	61420	PUMP, LIQUID TRANSFER	GRACO INC F-GRACO LUBER	1989	218-320	NONE	07/18/1989	1289	100	4320	\$2,177
Y	1262847	PUMP, SEWAGE	EASON TECHNOLOGIES	1994	120EWB40	921012112-10	08/26/1994	1187	CONEX	4320	\$2,000
Y	398696	PUMP, VACUUM	WELCH	1986	1396	3562	10/01/1986	1265B	100	4310	\$6,615
N	M033882	Q-FLEX SIGNAL CONDITIONER	LANGLEY RESEARCH CENTER	NONE	2 CHANNEL	10	NONE	1236	248	6610	\$995
N	M095684	Q-FLEX SIGNAL CONDITIONER	LANGLEY RESEARCH CENTER	NONE	2 CHANNEL	11	NONE	1236	248	6130	\$750
N	A005744	RANDOM NOISE GENERATOR	GENRAD, INC.	NONE	1390B	5826	NONE	1236	212	6625	\$650
Y	NONE	RANGE POLE TRIPOD	NIKON	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	143460	READER/PRINTER, MICROFICHE	CANON USA MICROGRAPHICS DIV	1987	33105643	PC-P80	09/22/1987	1130T	200	6730	\$4,228
Y	1742410	READER/PRINTER, MICROFILM	MINN MINING & MFG	1997	737474	664AGF	04/29/1997	1130T	200	6730	\$17,371
Y	1423503	RECLAIMER, REFRIGERANT	NATIONAL REFRIGERATION AN	1995	VR11	N94L00266	01/18/1995	1198	100	4130	\$4,796
Y	527680	RECORDER, CHART, STRIP	HONEYWELL INC AEROSPACE D	1968	153019	E2193919001	02/01/1968	1284B	118	6625	\$1,195

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
Y	418640	RECORDER, CHART, STRIP	ESTERLINE-ANGUS INSTRUMEN	1979	A601C	214615	02/09/1979	1187	100	6625	\$1,113
Y	428116	RECORDER, CHART, STRIP	ESTERLINE-ANGUS INSTRUMEN	1982	A601C	222633	09/24/1982	1187	100	6625	\$1,837
Y	1257626	RECORDER, CHART, STRIP	YOKOGAWA CORP OF AMERICA	1993	375022-02/RS232C/MAT	NONE	11/02/1993	1188	100	6625	\$5,105
Y	1877487	RECORDER, SIGNAL DATA	AMPROBE INSTRUMENT DIV OF	1998	7PDM2AP	NONE (VERIFIED)	07/13/1998	1188	101	6625	\$1,995
Y	1880063	RECORDER, SIGNAL DATA	AMPROBE INSTRUMENT DIV OF	1999	DMII	NONE (VERIFIED)	01/19/1999	1188	102	6625	\$2,000
Y	1877485	RECOVERY MACHINE	FLUORO-TECH	1998	3700	35236	07/09/1998	1198	100	4130	\$1,114
Y	1877486	RECOVERY MACHINE	FLUORO-TECH	1998	3700	35237	07/09/1998	1198	100	4130	\$1,114
Y	35965	REFLECTOMETER, TIME DOMAIN	AVO BIDDLE INSTRUMENTS FM	1995	655535	23906	09/11/1995	1188	100	6650	\$4,635
N	1157952	REMOTE PROCESSOR	PRESSURE SYSTEMS, INC.	1992	8404	148	11/01/1992	1221C	125	6685	\$6,000
N	417772	REMOTE SAMPLE DRAWING SYSTEM	GASTECH, INC.	1981	VSC1	NONE	01/01/1981	1236	222	6665	\$5,820
N	418539	REMOTE SAMPLE DRAWING SYSTEM	GASTECH, INC.	1981	VSC2	NONE	01/01/1982	1236	N1041	6665	\$3,540
Y	2100065	RESCUE SYSTEM, AERIAL	WGM SAFETY CORP MILLER EQ	1993	70-400	305	10/12/1993	1199	107	4240	\$1,625
Y	1741658	RESCUE SYSTEM, CONFINED SPACE	WGM SAFETY CORP MILLER EQ	1997	7A25243	80665V	04/03/1997	1199	111	4240	\$2,589
N	35706	RESISTANCE STANDARD	TINSLEY, H. & CO., INC.	1995	5685B	269786	07/01/1995	1236	IH	6625	\$1,517
Y	61809	RESISTANCE, BOX, DECADE	SHALLTRONIX CORP	1989	6860	1595	04/28/1989	1188	100	6625	\$1,140
Y	NONE	ROD W/ COVER	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	429928	ROOM, PORTABLE	INDUSTRIAL ACOUSTICS CO I	1975	1050	NONE	12/11/1975	1215	106	5410	\$5,116
N	A003920	RTD	KAYE INSTRUMENTS, INC.	NONE	RTD-20SP100	NTF1001	NONE	1236	248	6685	\$650
Y	462306	SANDBLAST MACHINE	TRINITY TOOL CO.	1977	40X40SL/BP	11876-7	04/01/1977	1247E	100	4940	\$1,228
Y	1423493	SANDBLAST MACHINE	UNIVERSAL EQUIPMENT MFG C	1995	365DC51	2670	01/03/1995	1199	113	4940	\$2,685
Y	426355	SANDER, DISC AND SPINDLE	OLIVER MACHINERY CO	1944	34DS	57895	06/30/1974	1292	100	3220	\$1,443
Y*	1612618	SATELLITE RECEIVER	TRIMBLE NAVIGATION LTD.	1998	4700	220133769	10/01/1998	1209T7	700	5820	\$8,244
Y	426360	SAW, ARBOR	BLACK AND DECKER /US/ INC	1975	3558	4090050	07/28/1975	1292	100	5130	\$1,756
Y	424775	SAW, BAND	FAY & EGAN CO OF GREAVES	1969	940	148763	06/01/1969	1292	100	3405	\$1,150
Y	426358	SAW, BAND	DOALL CO	1969	1612-0	277-70636	09/01/1969	1292	100	3405	\$2,268
Y	470758	SAW, BAND	ARMSTRONG-BLUM MFG CO	1973	MARVEL8	NONE	08/01/1973	1198	100	3405	\$4,619
Y	428094	SAW, BAND	GROB INC	1974	THROAT DEPTH24IN	NONE	06/30/1974	1284B	118	3405	\$1,380
Y	142885	SAW, BAND	DOALL CO	1987	TF1421	337-87544	09/01/1987	1223	100	3405	\$20,663
Y	61514	SAW, MASONRY	FEDERAL-MOGUL CORP	1989	PS1421	33033	09/05/1989	1292	SHED	3895	\$1,788
Y	426361	SAW, MITER	OLIVER MACHINERY CO	1941	88D	51191	12/01/1941	1292	100	5110	\$3,316
Y	1262132	SAW, TABLE	DELTA INT'L MACH'Y F-POW	1994	34-790A	2661	05/17/1994	1292	100	3405	\$3,357
N	1157953	SCANNER DIGITIZER UNIT	PRESSURE SYSTEMS, INC.	1992	8425	306	11/01/1992	1221C	203	7025	\$4,000
N	1157954	SCANNER DIGITIZER UNIT	PRESSURE SYSTEMS, INC.	1992	8425	308	11/01/1992	1221C	203	7025	\$4,000
N	1425542	SCANNER DIGITIZER UNIT	PRESSURE SYSTEMS, INC.	1995	8425	263	07/01/1995	1236	220	7025	\$3,720
N	1157955	SCANNER INTERFACE	PRESSURE SYSTEMS, INC.	1992	8415	300	11/01/1992	1221D	126	7025	\$1,500
N	1157956	SCANNER INTERFACE	PRESSURE SYSTEMS, INC.	1992	8415	272	11/01/1992	1221C	124	7025	\$1,500
N	A005485	SCANNER JUNCTION UNIT	PRESSURE SYSTEMS, INC.	NONE	8418	117	02/01/1993	1236	248	6685	\$2,000
N	A005486	SCANNER JUNCTION UNIT	PRESSURE SYSTEMS, INC.	NONE	8418	118	02/01/1993	1236	232	6685	\$2,000
Y	1158410	SCANNER, COMPUTER	HEWLETT-PACKARD CO	1992	C1790A	3201J20134	10/23/1992	1215	114	7025	\$982
N	2101986	SCANNER, COMPUTER	IMATION ENTERPRISES CORP	2002	POLYSCAN	182188	07/01/2002	1130T2	205	7025	\$30,426
N	2101989	SCANNER, COMPUTER	IMATION ENTERPRISES CORP	2002	K7550	752201357	07/01/2002	1130T2	205	7021	\$12,720
Y	802346	SCANNER, HAND HELD	PSC INC	1993	5317-3002	59888	06/16/1993	1187	100	7025	\$1,195
N	1255433	SCOPEMETER, DIGITAL	FLUKE CORP	1993	97	DM7540257	05/05/1993	1215	101	6625	\$1,771
Y	1427164	SEPARATOR, DRUM	ERIEZ MFG CO	1995	HEAVYDUTY HFP	88109	10/18/1995	1289	YARD	6625	\$16,108
Y	138473	SHOE CLEANER	ULTRA-CLEAN PRODUCTS CO	1987	2000VA1400VA	4975	01/13/1987	1188	100	3520	\$1,255
N	6073696	SIGNAL CONDITIONER	MODULAR COMPUTER SYSTEMS, INC.	1990	9013-4	NONE	02/01/1990	1236	220	7035	\$8,370
N	6079870	SIGNAL CONDITIONER	MODULAR COMPUTER SYSTEMS, INC.	1990	9013-6	NONE	12/01/1990	1236	220	7025	\$3,000
N	1084790	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1991	620300AB	14581	03/01/1991	1221C	203	6625	\$2,900
N	1430753	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14664	09/01/1996	1148	104	6625	\$2,784
N	1430754	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14666	09/01/1996	1148	104	6625	\$2,784
N	1430755	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14662	09/01/1996	1148	104	6625	\$2,784
N	1430756	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14665	09/01/1996	1148	104	6625	\$2,784
N	1430757	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14668	09/01/1996	1148	104	6625	\$2,784
N	1430769	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14655	09/01/1996	1148	104	6625	\$2,784
N	1430770	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14663	09/01/1996	1148	104	6625	\$2,784
N	1430771	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14660	09/01/1996	1148	104	6625	\$2,784
N	1430772	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14654	09/01/1996	1148	104	6625	\$2,784
N	1430773	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14656	09/01/1996	1148	104	6625	\$2,784
N	1430774	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1996	620300AB	14659	09/01/1996	1148	104	6625	\$2,784
N	1742424	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1997	620300AB	14473	04/01/1997	1148	104	6625	\$2,900
N	1742426	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1997	620300AB	14473	04/01/1997	1148	104	6625	\$2,900
N	1873429	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1997	620300AB	14473	07/01/1997	1221C	203	6625	\$5,510

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## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	1877878	SIGNAL CONDITIONER	NEFF INSTRUMENT CORP.	1998	620300	14682	06/01/1998	1236	220	6695	\$2,712
N	A019470	SIGNAL CONDITIONER	ENDEVCO	NONE	2775A	CC54	NONE	1236	248	6625	\$650
N	A019471	SIGNAL CONDITIONER	ENDEVCO	NONE	2775A	CC80	NONE	1236	122	6625	\$650
N	A019472	SIGNAL CONDITIONER	ENDEVCO	NONE	2775A	CC83	NONE	1236	122	6625	\$650
N	A019474	SIGNAL CONDITIONER	ENDEVCO	NONE	2775A	CC87	NONE	1236	122	6625	\$650
Y	G074460	SIMULATOR, SIGNAL, FLOW	ENDRESS & HAUSER, INC.	1990	ZX6000	80982	04/27/1990	1188	102	6680	\$2,000
Y	NONE	SINGLE PRISM MOUNT W/ REFL.	N/A	N/A	N/A	6920205	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	SOFT CASE (1 OF 2)	N/A	N/A	N/A	6PSM0155	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	SOFT CASE (1 OF 2)	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	SOFT CASE (2 OF 2)	N/A	N/A	N/A	6PSM015	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	SOFT CASE (2 OF 2)	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	282413	SOURCE, CURRENT	AVO MULTI-AMP CORP/MULTI-	1985	PA3500K	85-1793	05/29/1985	1274	100	6625	\$1,615
Y	549570	SPRAYER, CHEMICAL	ROTOTEC	1984	800	NONE	05/08/1984	1187	100	3740	\$1,987
Y	1880043	STACKER, HYDRAULIC	MOBILE PALLET TRUCK INC	1999	705A	10388	01/05/1999	1188	100	3990	\$2,106
N	M095901	STANDARD RESISTOR	LEEDS & NORTHRUP CO.	NONE	4035B	1857385	NONE	1236	248	6625	\$650
Y	403470	STEAM CLEANER	SIOUX STEAM CLEANER CORP	1983	300CHIEF	98323	09/20/1983	1261	100	4940	\$2,125
Y	425969	STILL PICTURE VIEWER	BELL & HOWELL CO	1979	All	198946	01/01/1979	1130T2	208	6730	\$2,223
Y	419391	STRIP CHART RECORDER	LEEDS & NORTHRUP CO.	1975	SPEEDOMAX W	E7538110-1	06/01/1975	1241	202	6625	\$1,482
Y	21870	STRIP CHART RECORDER	YOKOGAWA CORP. - AMERICA	1992	4152	02YB0358	04/01/1992	1241	202	6625	\$1,595
Y	38591	STROBELIGHT	COMPUTATIONAL SYSTEMS INC	1996	A444B1	12/13/1996	1209T	406	6625	\$2,995	
N	1158365	SUPERMICRO COMPUTER	SUN MICRO SYSTEMS, INC.	1992	670MP	237K0764	10/01/1992	1236	220	7025	\$61,064
Y	1742508	SUPERMICRO COMPUTER	SUN MICRO SYSTEMS, INC.	1997	A14	71317DA	04/01/1997	1236	242	7021	\$15,746
Y	1742511	SUPERMICRO COMPUTER	SUN MICRO SYSTEMS, INC.	1997	A14	71317D1	04/01/1997	1236	242	7021	\$15,746
Y	1742515	SUPERMICRO COMPUTER	SUN MICRO SYSTEMS, INC.	1997	A14	71317D6	04/01/1997	1236	242	7021	\$15,746
N	1874605	SUPERMICRO COMPUTER	SUN MICRO SYSTEMS, INC.	1997	A14	736KC154	09/01/1997	1236	220	7021	\$11,963
Y	472999	SURFACE PLATE, GRANITE	COLLINS MICROFLAT CO	1966	48X96X12IN	NONE	10/01/1966	1188	100	5220	\$1,585
Y	284716	SWAGING MACHINE	CRANE RESISTOFLEX DEFENSE	1967	R21935	350	05/01/1967	1284B	118	3446	\$1,490
Y	527686	SWAGING MACHINE	ENERPAC F-BLACKHAWK IND P	1976	PEM2021	OC5132	09/03/1976	1284B	118	3446	\$6,470
Y	258421	SWAGING MACHINE	EATON CORP LEBOW PRODUCTS	1986	4350-00553	7858	05/01/1986	1284B	118	3446	\$1,163
N	1157951	SYSTEM PROCESSOR	PRESSURE SYSTEMS, INC.	1992	8400	285	11/01/1992	1221C	203	6685	\$7,759
Y	2098257	SYSTEM, BLASTING	COMPLETE ABRASIVE BLASTIN	1991	MS4-25-1	NONE	12/11/1991	1289	YARD	4440	\$50,890
Y	58297	TABLE, LABORATORY	ISLES INDUSTRIES INC	1988	ESLD363696DSS	35L48LMWF	10/03/1988	1188	102	6640	\$1,051
Y	1741862	TABLE, VIBRATION, ISOLATION	TERRA UNIVERSAL INC	1997	1570-81-2	1570-81-23905711	02/18/1997	1188	100	6640	\$2,258
Y	1262895	TANK TRAILER	AIR PRODUCTS AND CHEMICALS, INC.	1967	2330-710-2497	NONE	06/01/1967	1160	N1818	2330	\$44,340
Y	1091937	TANK UNIT, DECON. APPARATUS	FISHER CO INC	1991	NONE	NONE	12/21/1991	1188	100	4230	\$13,193
Y	1091938	TANK UNIT, DECON. APPARATUS	FISHER CO INC	1991	NONE	NONE	12/21/1991	1188	100	4230	\$13,193
Y	1091939	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1991	NONE	NONE	12/21/1991	1188	100	4230	\$11,665
Y	1091940	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1991	1164	915522	12/21/1991	1188	100	4230	\$8,920
Y	1091934	TANK UNIT, DECON. APPARATUS	FISHER CO INC	1992	NONE	NONE	03/23/1992	1188	100	4230	\$7,140
Y	1091935	TANK UNIT, DECON. APPARATUS	FISHER CO INC	1992	NONE	NONE	03/23/1992	1188	100	4230	\$9,674
Y	1158284	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	925688-2	10/23/1992	1188	100	4940	\$6,311
Y	1158285	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	925688-1	10/23/1992	1188	100	4940	\$6,311
Y	1158286	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	925689	10/23/1992	1188	100	4940	\$6,389
Y	1158287	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	925690	10/23/1992	1188	100	4940	\$3,775
Y	1158288	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	925692-1	10/23/1992	1188	100	4940	\$2,788
Y	1158350	TANK UNIT, DECON. APPARATUS	NORTHLAND STAINLESS INC	1992	NONE	NONE	10/23/1992	1188	100	4940	\$2,676
N	467180	TELEVISION CAMERA	DAGE-MTI INC.	1982	VC68X875/60	106	05/01/1982	1236	222	5820	\$2,045
N	467183	TELEVISION CAMERA	DAGE-MTI INC.	1983	NC68X875	153	02/01/1983	1236	222	5820	\$2,301
N	137527	TELEVISION CAMERA	RADIO CORP. OF AMERICA	1988	CPR300	751530911	04/01/1986	1236	109B	5820	\$1,348
N	60147	TELEVISION CAMERA	TOSHIBA HOSHASEN CO., LTD.	1989	IK-M30	13630341	02/01/1989	1236	248	5820	\$2,723
N	20448	TELEVISION CAMERA	ELMO MANUFACTURING CORP.	1990	EM102	853810	09/01/1990	1236	248	5820	\$2,240
N	801923	TELEVISION CAMERA	HITACHI LTD.	1992	KPM1V	2093077	11/01/1992	1236	TUNL	5820	\$629
N	802221	TELEVISION CAMERA	HITACHI LTD.	1993	KP-M1U	3014081	05/01/1993	1236	TUNL	5820	\$738
N	802222	TELEVISION CAMERA	HITACHI LTD.	1993	KP-M1U	3014091	05/01/1993	1236	TUNN	5820	\$738
N	802893	TELEVISION CAMERA	ELMO MANUFACTURING CORP.	1993	MN401E	922391	10/01/1993	1236	248	5820	\$1,583
N	802894	TELEVISION CAMERA	ELMO MANUFACTURING CORP.	1993	MN401E	922383	10/01/1993	1236	248	5820	\$1,583
N	803650	TELEVISION CAMERA	HITACHI LTD.	1994	KP-M1U	4059737	06/01/1994	1236	TUNN	5820	\$870
N	35498	TELEVISION CAMERA	HITACHI DENSHI LTD.	1995	KP-M1U	5025270	04/01/1995	1236	248	5820	\$939
Y	1086051	TELEVISION MONITOR	MATSUSHITA ELECTRIC CORP. OF AME	1991	CT2010Y	EE1220075	06/01/1991	1236	248	5820	\$509
Y	1158989	TELEVISION MONITOR	JVC INDUSTRIES, INC.	1992	TM1400SU	13753126	12/01/1992	1236	248	5820	\$575
Y	1156302	TEMPERATURE CONTROLLER	WIEGAND DIV EMERSON ELEC	1992	4634	592732	05/29/1992	1188	100	4940	\$6,257
N	A002155	TEMPERATURE CONTROLLER	SHIMADEN CO., INC.	NONE	SRI7	SC175VN150	NONE	1236	248	6685	\$650

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Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	A005230	TEMPERATURE CONTROLLER	UNITED ELECTRIC CO.	NONE	F100-8BS-1530	NONE	10/01/1992	1247B	106A	4310	\$196
N	A005231	TEMPERATURE CONTROLLER	UNITED ELECTRIC CO.	NONE	F100-8BS-1530	NONE	10/01/1992	1247B	106A	4310	\$196
N	M095665	TEMPERATURE CONTROLLER CASE	SHIMADEN CO., INC.	NONE	SR17-905V-009312-XX7	09C2970500	NONE	1236	248	6685	\$650
N	A010873	TEMPERATURE ELEMENT	ROSEMOUNT ENGINEERING CO.	NONE	0183F11T2C30A045F52	553797	NONE	1236	248	6685	\$750
N	A010876	TEMPERATURE ELEMENT	ROSEMOUNT ENGINEERING CO.	NONE	0183F11T2C30A105T22	553941	NONE	1236	248	6685	\$750
N	802122	TEMPERATURE INDICATOR	DAYTRONIC CORP.	1993	4010	221	06/01/1993	1236	220	6685	\$1,780
Y	1426451	TEMPERATURE PROBE	COMPUTATIONAL SYSTEMS, INC.	1995	510	55121	09/01/1995	1247E	200	6650	\$1,845
N	A003411	TEMPERATURE PROBE	OMEGA ENGINEERING, INC.	NONE	RH411-RP	HC3T6	NONE	1236	248	6685	\$175
Y	1257563	TEMPERATURE RECORDER	OMEGA ENGINEERING, INC.	1990	RD250-06T	EA909C002	10/01/1990	1241	202	6685	\$2,828
N	G074137	TERMINAL, DATA PROCESSING	INTECOLOR CORP	1990	8815	629697	04/04/1990	1215	101	7025	\$3,715
N	G074138	TERMINAL, DATA PROCESSING	INTECOLOR CORP	1990	8815	630198	04/04/1990	1215	101	7025	\$3,715
Y	1089738	TEST INSTRUMENT, CONVERTIBLE	DOBLE ENGINEERING CO	1991	F2500	109100386	11/21/1991	1188	100	6625	\$18,090
Y	1428239	TEST INSTRUMENT, CONVERTIBLE	DOBLE ENGINEERING CO	1996	F2250	129500211	02/26/1996	1188	100	6625	\$18,300
Y	1089737	TEST INSTRUMENT, SLAVE DC	DOBLE ENGINEERING CO	1991	F2410	109102976	11/21/1991	1188	100	6625	\$4,500
Y	G075585	TEST SET	SIEMENS CORP	1990	PT54	90025014	01/30/1990	1188	100	6625	\$2,208
Y	1262608	TEST SET, CIRCUIT BREAKER	DOBLE ENGINEERING CO	1994	TR3100	39400483	07/06/1994	1209T	100	6625	\$14,900
Y	1422519	TEST SET, CIRCUIT BREAKER	AVO MULTI-AMP CORP/MULTI-	1994	CB8160	98094-001/1	10/25/1994	1188	100	6625	\$34,016
Y	1877393	TEST SET, CIRCUIT BREAKER	WESTINGHOUSE ELEC DISTRIB	1995	NONE (VERIFIED)	S140D481G02	01/30/1995	1188	100	6625	\$5,000
Y	1877394	TEST SET, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1995	TT51	230	01/30/1995	1188	100	6625	\$5,000
Y	1877395	TEST SET, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1995	TVTS1	653	01/30/1995	1188	100	6625	\$5,000
Y	1877396	TEST SET, CIRCUIT BREAKER	CUTLER-HAMMER INC POWER D	1995	DS	A960712-1	01/30/1995	1188	100	6625	\$5,000
Y	1877398	TEST SET, CIRCUIT BREAKER	CUTLER-HAMMER INC POWER D	1995	DS	A970924-3	01/30/1995	1188	100	6625	\$5,000
Y	1877400	TEST SET, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1995	TVRMS2	1910596	01/30/1995	1188	100	6625	\$5,000
Y	462314	TEST SET, PROTECTIVE RELAYS	AVO MULTI-AMP CORP/MULTI-	1979	SR75	24996	03/12/1979	1188	100	6625	\$6,028
Y	219651	TEST SET, PROTECTIVE RELAYS	AVO MULTI-AMP CORP/MULTI-	1985	SR76A	36267-001/1	10/21/1985	1188	100	6625	\$5,245
Y	847053	TEST SET, PROTECTIVE RELAYS	AVO MULTI-AMP CORP/MULTI-	1989	35200	60612-001/1	08/30/1989	1188	100	6625	\$2,195
Y	2100467	TEST SET, PROTECTIVE RELAYS	AVO MULTI-AMP CORP/MULTI-	2002	SR98-1/60	108010017	02/25/2002	1209	100	6625	\$7,000
Y	1877397	TESTER, AMPERE	WESTINGHOUSE ELEC DISTRIB	1995	NONE (VERIFIED)	S140D481G03-2	01/30/1995	1188	100	6625	\$5,000
Y	1877399	TESTER, AMPERE	WESTINGHOUSE ELEC DISTRIB	1995	NONE (VERIFIED)	S140D481G03-1	01/30/1995	1188	100	6625	\$5,000
Y	1876955	TESTER, AMPLIFIER	IRIS POWER ENGINEERING IN	1998	IRIS-NASA001	0036-B98	03/20/1998	1209T	100	6625	\$33,285
Y	428086	TESTER, CIRCUIT BREAKER	ALLIS-CHALMERS APPLETON P	1977	18-468-400-501	00247-8	03/10/1977	1188	100	6625	\$1,430
Y	428088	TESTER, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1980	TAK-TS2	E80211	05/29/1980	1188	100	6625	\$2,374
Y	60176	TESTER, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1989	TVRMS	NONE	02/07/1989	1188	100	6625	\$1,900
Y	1877420	TESTER, CIRCUIT BREAKER	GENERAL ELEC CO SUPPLY C	1995	TVRMS	NONE (VERIFIED)	01/01/1995	1188	100	6625	\$5,000
Y	527495	TESTER, DEAD WEIGHT	MANSFIELD INDUSTRIES INC	1974	T130	6237	07/23/1974	1284B	118	6685	\$1,093
Y	527693	TESTER, DEAD WEIGHT	MANSFIELD INDUSTRIES INC	1974	T130	6238	07/23/1974	1284B	118	6685	\$1,093
Y	527692	TESTER, DEAD WEIGHT	AMTECH INC	1982	R100	13407	11/01/1982	1284B	118	6685	\$1,350
Y	429884	TESTER, DIELECTRIC, LIQUID	HIPOTRONICS INC	1978	OC60A MODIFIED	17252212	03/07/1978	1233A	SHED	6630	\$1,130
Y	280221	TESTER, DIELECTRIC, LIQUID	HIPOTRONICS INC	1985	OC60A	4459	02/11/1985	1233A	SHED	6630	\$1,350
Y	1264442	TESTER, HIGH VOLTAGE, AC	HIPOTRONICS INC	1994	760-2HVT	M9410046	10/11/1994	1209T	300	6625	\$2,900
Y	1264441	TESTER, HIGH VOLTAGE, DC	HIPOTRONICS INC	1994	860PL	M9410045	10/11/1994	1209T	300	6625	\$4,500
Y	1426401	TESTER, INSULATION	AVO BIDDLE INSTRUMENTS FM	1995	218800	277361002	09/20/1995	1209T	100	6625	\$9,750
Y	429877	TESTER, TRANSFORMER	AVO BIDDLE INSTRUMENTS FM	1968	TTR	2234	10/01/1968	1188	100	6625	\$1,110
Y	1263650	TESTER, TRANSFORMER	AVO BIDDLE INSTRUMENTS FM	1994	247250	2043	11/18/1994	1188	100	6625	\$4,600
Y	1880064	TESTER, TRANSFORMER	VANGUARD	1999	AFRT01D	11062	01/19/1999	1188	100	6625	\$2,500
N	A001194	THERMOCOUPLE SELECTOR	FLUKE CORP.	NONE	Y2001	3925045	NONE	1236	248	6685	\$350
Y	143707	THERMOMETER, INFRARED	LAND INSTRUMENTS INC	1987	CYCLOPS33	20001035	10/06/1987	1209T	403	6685	\$2,650
Y	1428780	THERMOMETER, INFRARED	MIKRON INSTRUMENT CO INC	1996	M103	1089	04/25/1996	1188	102	6685	\$1,745
Y	56487	THREADER, PIPE	CURTIS-TOLEDO F-BEAVER TO	1982	999	1005-4188	11/10/1982	1223	100	3419	\$2,290
Y	A003101	TORQUE SCREWDRIVER	STURTEVANT-RICHMONT	NONE	CAL36/4	185898	NONE	1236	125	6635	\$75
Y	A013108	TORQUE WRENCH	SNAP ON TOOLS CORP.	NONE	QC2R100	298100978	03/01/1998	1236	248	6635	\$150
Y	A013110	TORQUE WRENCH	SNAP ON TOOLS CORP.	NONE	QC2R200	397300466	03/01/1998	1236	248	6635	\$75
Y	A013111	TORQUE WRENCH	SNAP ON TOOLS CORP.	NONE	QC2R1000	198201816	03/01/1998	1236	248	6635	\$150
Y	A014672	TORQUE WRENCH	CONSOLIDATED DEVICES, INC.	NONE	2001MR	NTF-10	NONE	1236	122	6635	\$150
Y	A028389	TORQUE WRENCH	SNAP ON TOOLS CORP.	NONE	QC2R200	600200180	NONE	1236	248	6635	\$100
Y	A028390	TORQUE WRENCH	SNAP ON TOOLS CORP.	NONE	QC2R200	600400890	NONE	1236	248	6635	\$100
Y	C002366	TORQUE WRENCH	UTICA PRECISION TOOL CO., INC.	NONE	TS-30	NTF-36	NONE	1236	122	6635	\$295
Y	C002367	TORQUE WRENCH	UTICA PRECISION TOOL CO., INC.	NONE	TS-30	NTF-35	NONE	1236	122	6635	\$295
Y	C002368	TORQUE WRENCH	UTICA PRECISION TOOL CO., INC.	NONE	TS-30	NTF-33	NONE	1236	125	6635	\$295
Y	C002369	TORQUE WRENCH	UTICA PRECISION TOOL CO., INC.	NONE	TS-30	NTF-34	NONE	1236	122	6635	\$295
Y	55377	TRAILER, TANK	MILITARY SPECIFICATIONS	N/A	2330 754 0508	NONE	10/01/1961	1233	N1832	N/A	\$1,278
N	A002697	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575117	NONE	641	206	5996	\$1,116

# Exhibit E IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	A002781	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575106	11/01/1991	1236	248	5996	\$1,116
N	A002782	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575108	11/01/1991	1236	248	5996	\$1,116
N	A002783	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575123	11/01/1991	1236	248	5996	\$1,116
N	A002784	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575120	11/01/1991	1236	248	5996	\$1,116
N	A002785	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575116	11/01/1991	1236	248	5996	\$1,116
N	A002786	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575118	11/01/1991	1236	248	5996	\$1,116
N	A002787	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575122	11/01/1991	1236	248	5996	\$1,116
N	A002788	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575107	11/01/1991	1236	248	5996	\$1,116
N	A002789	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575104	11/01/1991	1236	248	5996	\$1,116
N	A002790	TRANSDUCER AMPLIFIER	PACIFIC INSTRUMENTS, INC.	NONE	8655	4575112	11/01/1991	1236	248	5996	\$1,116
Y	61503	TRANSFORMER, POWER	AIRCO WELDING PRODUCTS	1989	300	MH905034	08/25/1989	1223	100	6130	\$3,085
Y	1092868	TRANSMITTER, INTERFACE	MOORE PRODUCTS CO	1992	15965-665	114437	05/11/1992	1188	102	6685	\$1,349
N	1263238	TRANSPORT, MAGNETIC TAPE	HEWLETT-PACKARD CO	1994	7980A	3132A60859	04/26/1994	1215	101	7025	\$22,200
N	38121	TRANSPORT, MAGNETIC TAPE	ANDATACO	1996	X80CH31	G800038109	05/31/1996	1215	101	7025	\$1,136
Y	NONE	TRIBRANCH	NIKON	N/A	N/A	670003	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	TRIPLE PRISM MOUNT W/ REFL.	N/A	N/A	N/A	676PSM100	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	NONE	TRIPOD (EXTRA)	N/A	N/A	N/A	N/A	N/A	N/A	SURVEY ROOM	N/A	\$0
Y	1158414	TRUCK, FORKLIFT	CROWN INDUSTRIAL PRODUCTS	1992	20MT	37853	10/23/1992	1215	106	3930	\$3,135
Y	1264387	TRUCK, FORKLIFT	CATERPILLAR TRACTOR CO	1994	RT100	1GJ01069	10/06/1994	1199	N1396	3930	\$73,455
Y	1089791	TRUCK, FORKLIFT	TCM AMERICA INC.	N/A	FCG15N7T	A44701085	11/20/1991	1187	N1043	N/A	\$13,436
Y	1424718	TRUCK, FORKLIFT	CLARK EQUIPMENT CO	N/A	GCX15E	GX127E04589345K	04/10/1995	1292	N1021	N/A	\$13,839
Y	529618	TRUCK, TANK, DIESEL	CHRYSLER CP HAMTRAMCK	1975	CT800	R81HZ5T004128	11/12/1975	1199	N1652	2320	\$44,307
N	462443	TRUE RMS VOLTMETER	TSI	1977	1076	17877	08/01/1977	1236	220	6625	\$1,484
Y	427723	TUBE BENDER	PARKER-HANNIFIN CYLINDER	1967	H8832	175	02/01/1967	1199	122	5120	\$2,845
Y	NONE	TYPEWRITER	PANASONIC KX-E400	N/A	N/A	N/A	N/A	1130T2	202	N/A	\$100
Y	NONE	TYPEWRITER (2)	IBM	N/A	N/A	N/A	N/A	1130T2	206/208	N/A	\$100
Y	1431636	ULTRASONIC LEAK DETECTOR	UE SYSTEMS, INC.	1996	UP2000	21297	09/01/1996	1247E	200	6635	\$3,596
Y	1877574	ULTRASONIC MEASUREMENT SYSTEM	COMPUTATIONAL SYSTEMS INC	1998	B700000	818051	05/19/1998	1209T	109	6625	\$4,215
N	M095734	VACUUM GAUGE	TELEDYNE HASTINGS INSTRUMENTS	NONE	VT-6A	131	NONE	1236	248	6685	\$350
N	M095737	VACUUM GAUGE	TELEDYNE HASTINGS INSTRUMENTS	NONE	VT-6A	129	NONE	1236	248	6685	\$350
N	M095755	VACUUM GAUGE	TELEDYNE HASTINGS INSTRUMENTS	NONE	VT-6A	134	03/01/1983	1236	248	6685	\$1,249
N	M095980	VACUUM GAUGE	TELEDYNE HASTINGS INSTRUMENTS	NONE	VT-6A	130	NONE	1236	248	6685	\$350
N	M096030	VACUUM GAUGE	TELEDYNE HASTINGS INSTRUMENTS	NONE	VT-6A	132	NONE	1236	248	6685	\$250
Y	427508	VACUUM PUMP	SARGENT-WELCH SCIENTIFIC	1983	1398	3417	03/29/1983	1156	YARD	4310	\$5,527
Y	427735	VACUUM PUMP	SARGENT-WELCH SCIENTIFIC	1983	1402B	111136	04/11/1983	1156	CONX	4310	\$1,040
Y	1424860	VACUUM, WET-DRY	HEPA CORP	1995	C81455-05	81580013	05/04/1995	1293B	SHED	4310	\$2,050
N	A010863	VIBRATION SWITCH	ROBERTSHAW CONTROLS CO.	NONE	366-A8	962230	NONE	1236	248	6680	\$350
N	A010864	VIBRATION SWITCH	ROBERTSHAW CONTROLS CO.	NONE	366-A8	962236	NONE	1236	248	6680	\$350
N	A010865	VIBRATION SWITCH	ROBERTSHAW CONTROLS CO.	NONE	366-A8	962235	NONE	1236	248	6680	\$350
N	A004258	VIDEO AMPLIFIER	COHU, INC.	NONE	9079201-00	21581	12/01/1994	1230	248	5996	\$450
N	A004259	VIDEO AMPLIFIER	COHU, INC.	NONE	9079201-00	20851	12/01/1994	1230	248	5996	\$450
N	A004262	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	262110-D6	12/01/1994	1248	248	5996	\$650
N	A004263	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	262112-D6	12/01/1994	1230	248	5996	\$650
N	A004264	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	262096-D6	12/01/1994	1248	248	5996	\$650
N	A004266	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	218593H2	12/01/1994	1236	248	5996	\$650
N	A004267	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	218601H2	12/01/1994	1236	248	5996	\$650
N	A004268	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	CL-1050B	218600H2	12/01/1994	1236	248	5996	\$650
N	A004270	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	DA-1060C	224673K2	12/01/1994	1236	248	5996	\$650
N	A004271	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	PD1041C	221898H2	12/01/1994	1236	248	5996	\$650
N	A004272	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	PD1041C	221894H2	12/01/1994	1236	248	5996	\$650
N	A004273	VIDEO AMPLIFIER	DYNAIR ELECTRONICS	NONE	PD1041C	221883H2	12/01/1994	1236	248	5996	\$650
N	802021	VIDEO CAMERA	SONY CORP. OF AMERICA	1993	XC999	13014	03/01/1993	1236	TUNN	5820	\$1,205
N	802085	VIDEO CAMERA	SONY CORP. OF AMERICA	1993	XC999	13122	03/01/1993	1236	TUNN	5820	\$944
N	35361	VIDEO CAMERA	MINOLTA CORP.	1995	APOLLO3	623101-10	02/01/1995	1236	MEZZ	5820	\$5,500
N	35362	VIDEO CAMERA	MINOLTA CORP.	1995	APOLLO3	1/1/00	02/01/1995	1236	243	5820	\$5,600
N	35406	VIDEO CAMERA	SONY CORP. OF AMERICA	1995	XC999	21634	03/01/1995	1236	TUN32	5820	\$988
N	35408	VIDEO CAMERA	SONY CORP. OF AMERICA	1995	XC999	21882	03/01/1995	1236	TUNN	5820	\$988
N	37651	VIDEO CAMERA CONTROL UNIT	TOSHIBA AMERICA, INC.	1996	IKM41MA	22512945	04/01/1996	1236	TUNN	5836	\$1,320
N	37652	VIDEO CAMERA CONTROL UNIT	TOSHIBA AMERICA, INC.	1996	IKM41MA	19511718	04/01/1996	1236	TUNN	5836	\$1,320
N	37653	VIDEO CAMERA CONTROL UNIT	TOSHIBA AMERICA, INC.	1996	IKM41MA	19511725	04/01/1996	1236	TUNN	5836	\$1,320
N	59896	VIDEO CASSETTE RECORDER	MITSUBISHI ELECTRONICS AMERICA,	1989	BV1000	B63500992	01/01/1989	1236	240	5836	\$1,463
N	1156200	VIDEO CASSETTE RECORDER	MATSUSHITA ELECTRIC CORP. OF AME	1992	AG1960	L1TA01847	08/01/1992	1236	220	5836	\$968

# Exhibit E

## IAGP Equipment

Contractor to Replace? (Y/N)	ECN	Description	Manufacturer	Year Manufactured	Model Number	Serial Number	Acq. Date	Building	Room	FSC	Cost
N	1254511	VIDEO CASSETTE RECORDER	JVC INDUSTRIES, INC.	1993	BR-S605UB	6810627	03/01/1993	1236	220	5836	\$1,794
N	1254512	VIDEO CASSETTE RECORDER	JVC INDUSTRIES, INC.	1993	BR-S605UB	6810640	03/01/1993	1236	220	5836	\$1,794
N	1254513	VIDEO CASSETTE RECORDER	JVC INDUSTRIES, INC.	1993	BR-S605UB	6810641	03/01/1993	1236	220	5836	\$1,794
N	1254514	VIDEO CASSETTE RECORDER	JVC INDUSTRIES, INC.	1993	BR-S605UB	6810647	03/01/1993	1236	220	5836	\$1,794
N	1263629	VIDEO IMAGE PRINTER	MITSUBISHI ELECTRONICS AMERICA,	1994	S3600-30U	M3101197	10/01/1994	1236	220	7025	\$6,697
N	35292	VIDEO SWITCHER	AMERICAN DYNAMICS	1994	AD2150VLR16-5	423103	01/01/1995	1236	220	5836	\$2,587
N	35328	VIDEO SWITCHER	LEITCH VIDEO OF AMERICA, INC.	1994	HD161X2V	A9500723	12/01/1994	1236	220	5836	\$1,230
N	1423297	VIDEO SWITCHER	LEITCH VIDEO OF AMERICA, INC.	1994	HD16X16V	A947004	12/01/1994	1236	220	5836	\$3,469
Y	1879260	VISCOMETER, DIGITAL	COMPUTATIONAL SYSTEMS INC	1998	B0052DV	8260026	09/21/1998	1209T	100	6630	\$3,146
Y	144014	WASHER, PRESSURE	GRACO INC F-GRACO LUBER	1987	800087	A171	09/30/1987	1199	NE32	4940	\$2,300
Y	57473	WASHER, PRESSURE	L & A PRODUCTS INC	1988	375	NONE	08/26/1988	1279T	100	4940	\$1,285
Y	1256414	WASHING MACHINE, GLASSWARE	LABCONCO CORP	1993	44204FS	9306141444	07/15/1993	1188	100	6640	\$3,928
Y	1885769	WATER FILTRATION SYSTEM	SONO-TEK CORP	2000	AWC1-12-S1	326-00	07/10/2000	1198	100	4610	\$10,299
Y	424681	WELDER, ELECTRIC	MILLER ELECTRIC MFG CO	1977	CP300	HH044799	06/30/1977	1223	100	3431	\$3,102
Y	G079872	WELDER, HELIARC	LINCOLN ELECTRIC CO	1991	TIG300/300	777013	01/22/1991	1223	CONX	3431	\$2,371
Y	G079873	WELDER, HELIARC	LINCOLN ELECTRIC CO	1991	TIG300/300	777027	01/22/1991	1212	210	3431	\$2,371
Y	1613239	WIRE LABEL PRINTER	BRADY, W. H., CO.	1999	LS2000	23622	06/01/1999	1236	122	7490	\$1,205
Y	61529	WORK STATION, OFFICE	LIBERTY INDUSTRIES INC	1989	45033060	5206	10/24/1989	1188	100	7110	\$2,556
Y	1255985	WORK STATION, OFFICE	CENTER CORE INC	1993	2415A	NONE	01/07/1993	1209	150	7110	\$1,736
Y	1084785	WRENCH, HYDRAULIC, TORQUE	HYTORC DIV UNEX CORP	1990	HY1XL	NONE	07/27/1990	1187	100	4940	\$2,351
Y	G074948	WRENCH, HYDRAULIC, TORQUE	HYTORC DIV UNEX CORP	1990	HYSXL	NONE	07/13/1990	1187	100	4940	\$6,033
Y	849565	WRENCH, HYDRAULIC, TORQUE 10XL	HYTORC DIV UNEX CORP	1990	NONE	NONE	04/05/1990	1187	100	4940	\$7,885
N	1156032	X WINDOW TERMINAL	NETWORK COMPUTING DEVICES, INC	1992	17C	14811846	06/01/1992	1236	221	7025	\$2,000
Y	1879137	X WINDOW TERMINAL	NETWORK COMPUTING DEVICES, INC	1998	NC995AA	G8A002350	09/01/1998	1148	114	7025	\$500
N	531674	ZOOM LENS	DAGE-MTI INC.	1981	104411-03	554013	02/01/1981	1236	ROOF	6760	\$2,736
N	35364	ZOOM LENS	MINOLTA CORP.	1995	100-300	17305729	02/01/1995	1236	243	6760	\$1,000
N	35365	ZOOM LENS	MINOLTA CORP.	1995	35-200	13238845	02/01/1995	1236	TUNL	6760	\$1,235



# Exhibit E

## IAGP Tools and Misc. Property

Contractor to Replace? (Y/N)	FESS Number	Description	Serial No.	Craft	Quantity
Y		1000 Gallon Tank			1
Y		1500 Gallon Tank			1
Y	140	9 Ft. Snow Plow			1
Y	141	9 Ft. Snow Plow			1
Y		Acetylene cart			1
Y		Acetylene torch/cart			1
Y	424681	Acetylene welder	44799		1
Y	424659	Acetylene welder			1
Y	156875	Acetylene welder			1
Y	543, 2047	Air compressor			1
Y	502	Angle grinder		MECH	1
Y	282856	Arc welder			1
Y	284229	Arc welder			1
Y	531394	Arc welder			1
Y	G79873	Arc welder	777027		1
Y	281297	Arc welder			1
Y	1083880	Arc welder	775229		1
Y	G79872	Arc welder	777013		1
Y	166696	Arc welder			1
Y	61505	Arc welder			1
Y	166696	Arc welder		PIPE	1
Y	1083880	Arc welder	775229	PIPE	1
Y	G79872	Arc welder	777013	PIPE	1
Y	G79873	Arc welder	777027	PIPE	1
Y	1028, 2081	Band Saw			1
Y		Bottle jack; 15 ton			1
Y		Bottle jack; 35 ton			1
Y		Bottle jack; 50 ton			1
Y	2190,2220	Cabinet, Safety		GEN	2
Y		Chain-fall; 1 ton			1
Y	NE-1801	Chemical/Sand Spreader			1
Y	NE-1802	Chemical/Sand Spreader			1
Y	2127, 2128, 2129	Come-a-long; 1 1/2			3
Y	2032, 2033	Come-a-long; 6 ton			2
Y	527683	Dead weight tester			1
Y	527684	Dead weight tester			1
Y	2,218	Drill press, Magnetic			1
Y	2037	Drill; 1/2"		MECH	1
Y	154	Drill; 3/8"		MECH	1
Y		Elevating truck	382295		1
Y		Hoist; 1/2 ton			1
Y	847703	Hydraulic bender			1
Y	162452	Hydraulic roll-a-lift			1
Y		Hydraulic roll-a-lift	4692-4		1
Y		Hydraulic roll-a-lift	9959-6		1
Y		Hydraulic roll-a-lift	2959-6		1
Y	2040	Impact wrench, 1/2"		MECH	1
Y	238	Ladder, 20'		CARP	1

# Exhibit E

## IAGP Tools and Misc. Property

Contractor to Replace? (Y/N)	FESS Number	Description	Serial No.	Craft	Quantity
Y	207	Ladder; 10' fiberglass		CARP	1
Y	221	Ladder; 20' fiberglass		CARP	1
Y	2006	Ladder; 24' aluminum		CARP	1
Y	345	Ladder; 24' fiberglass		CARP	1
Y	82, 672, 2003	Ladder; aluminum extension, 40'			3
Y	2001, 2002	Ladder; aluminum, 12'			2
Y	1062, 1063	Ladders; 16' fiberglass		CARP	2
Y	1062, 1063, 1072	Ladders; 16' fiberglass			3
Y	2180-1, 4, 89	Megger, tester			4
Y	1120	Nail gun		CARP	1
Y	231	Oiler, rigid		PIPE	1
Y	2028, 2042	Piezzo Meter			1
Y	103	Pipe clamp/vise		PIPE	1
Y	372	Pipe cutter, 4" - 6"		PIPE	1
Y	373	Pipe cutter, 4" - 6"		PIPE	1
Y	232, 138, 139	Pipe stand		PIPE	3
Y	104	Pipe threader (1/2" - 2")		PIPE	1
Y	120, 502	Planer			1
Y	450, 2134	Sander		CARP	2
Y	1117, 2203	Sander, Belt		CARP	1
Y	2107	Saw, miter		CARP	1
Y	490	Shop vac			1
Y	2017, 2148	Shop vac, Wet/Dry			1
Y	473, 932, 2016	Shop vac, Wet/Dry			1
Y	2011	Shop vac; Portable			1
Y	4923	Snow Blowers			1
Y	531	Staple Gun		CARP	1
Y	532	Staple gun		CARP	1
Y	533	Staple Gun		CARP	1
Y	2083,2084	Vacuum		GEN	2
Y	2078	Vacuum cleaner, shoulder		GEN	1
Y	2023	Vacuum cleaner, Wet/Dry		GEN	1
Y	2182, 2194	Welder, Lincoln			1

# Exhibit E

## IAGP Facilities

Bldg. No.	Gross Sq. Ft.	Location/Rm.	Description	No. Rms./Areas	Net Sq. Ft.
1121		100	NTF Storage	1	<u>3448</u>
				TOTAL	3448
1130T2		N/A	Drawings Files	2	<u>2588</u>
				TOTAL	2588
1148		N/A	Shop Area	3	<u>150</u>
				TOTAL	150
1156		N/A	Emergency Equipment Storage		<u>579</u>
				TOTAL	579
1187	9,600	100	Warehouse	1	9,150
		101	Office Space	1	<u>64</u>
				TOTAL	9,214
1188	9,600	100, 107	Maintenance Shop	2	7,627
		101, 102, 103	Office Space	3	749
		104, 105	Rest Rooms	2	352
		107A	Clean Room	1	<u>375</u>
				TOTAL	9,103
1198	3,022	100	Maintenance Shop	1	2,580
		101	Office Space	1	125
		102, 103	Rest Rooms	2	205
		104	H2O Treatment Lab	1	<u>90</u>
				TOTAL	3,000
1199 Partial	18,103	100	Foyer	1	172
		101, 101A, 103	Office Space	3	612
		104, 104A, 104B	Office Space	3	350
		106, 107, 107A	Office Space	3	1,068
		109, 111, 112	Office Space	3	597
		112A, 112B, 112C	Office Space	3	481
		113A, 114, 114A	Office Space	3	1,191
		116, 116A, 116C	Office Space	3	387
		118, 122	Office Space	2	433
		111A, 113, 113B	Maintenance Shop	3	2,171
		113C, 113D, 116B	Maintenance Shop	3	1,086
		118A, 118B, 118C	Maintenance Shop	3	890
		115, 120	Rest Rooms	2	807
		116D	Storage	1	36
		117	Conference Room	1	<u>248</u>
				TOTAL	10,529
1209	67,030	187,187A, 187B,187C	Office Space/Library	4	765
		190C,190D,109F	Office Space	3	<u>525</u>
				Total	1,290

# Exhibit E

## IAGP Facilities

Bldg. No.	Gross Sq. Ft.	Location/Rm.	Description	No. Rms./Areas	Net Sq. Ft.
1209T4	1,549	401,402,403,404,405	Office Space	5	744
		406,408	Storage/ Misc	2	274
		407,407A	Office Space	2	<u>212</u>
			Total		1,230
1209T8	3,072	800,808,809	Open Office Space	3	1,897
		801,802,803,806,807	Office Space	5	842
		805,804	Rest Rooms	2	<u>78</u>
			Total		2,817
1215	16,963	100	Foyer	1	144
		101, 101A, 102A	Office Space	3	419
		109, 104, 112	Office Space	3	575
		113, 114, 115	Office Space	3	508
		116	Office Space	1	104
		109A	Cont. Rm. UCS	1	851
		103	Cont. Rm.	1	<u>194</u>
			TOTAL		2,795
1223A Partial	1,398	100, 101, 102	Maintenance Shop	3	<u>1,174</u>
			TOTAL		1,174
1248T	470	100, 101, 102	Maintenance Shop	3	<u>428</u>
			TOTAL		428
1275 Partial	15,077	103	Maintenance Shop	1	<u>296</u>
			TOTAL		296
1279T	450	100	Insulation Storage	1	<u>450</u>
			TOTAL		450
1284B	1,540	115, 116 117, 118	Maintenance Shop	2	506
			Maintenance Shop	2	<u>748</u>
			TOTAL		1,254
1262	60	103	RIMS Shop Area	1	<u>60</u>
			TOTAL		60
1289	4,389	100, 100M, 101M	Maintenance Shop	3	3,754
		101	Office Space	1	180
		102	Rest Room	1	<u>99</u>
			TOTAL		4,033
1292	4,630	100, 104, 106	Maintenance Shop	3	2,456
		107, 108, 110	Maintenance Shop	3	893
		102, 103	Rest Rooms	2	138
		109, 112, 114	Office Space	3	<u>460</u>
			TOTAL		3,947
1292A	1,600	100, 100A	Storage	2	<u>1,444</u>
			TOTAL		1,444
1292B	1,818	100, 101, 102	Storage	3	810
		103, 104	Storage	2	<u>616</u>

# Exhibit E

## IAGP Facilities

Bldg. No.	Gross Sq. Ft.	Location/Rm.	Description	No. Rms./Areas	Net Sq. Ft.
				TOTAL	1,426
1297	50	N/A	Shop Area	1	<u>50</u>
				TOTAL	50
1299T3	607	300,303	Office Space	2	<u>539</u>
				Total	539
				<b>GRAND TOTAL</b>	<b>61,844</b>

# Exhibit E

## IAGP Nitrogen Bottles

Contractor to Replace? (Y/N)	Bldg.#	Bottle#	Status
N	642	CX050866-HS	E
N	642	H-144807	E
N	642	H32936	E
N	642	H1748311	E
N	642	A749	F
N	642	H2100701	F
N	642	H16912	I
N	642	H225953	I
N	642	H1042003	I
N	642	Unidentifiable	I
N	642	H150524	I
N	650	K15476	F
N	650	X192478	F
N	650	DA-86905	I
N	1147	102835	E
N	1147	73-287576	E
N	1147	34	I
N	1227	2397896	E
N	1227	97563	I
N	1233	779	E
N	1233	USN2158234	E
N	1233	USN1013543	E
N	1233	H2084274	E
N	1233	X209390	E
N	1233	BA279	E
N	1233	H139807	E
N	1233	TWH560622	E
N	1233	2365085	E
N	1233	H997343	E
N	1233	AF325258	E
N	1233	K154767	E
N	1233	533	E
N	1233	H147098	E
N	1233	203243	E
N	1233	A11270	E
N	1233	Unidentifiable	E
N	1233	2058	E
N	1233	1351765	E
N	1233	H809822P	E
N	1233	P4579	E
N	1233	H173540	E
N	1233	H484761	E
N	1233	H121074	E
N	1233	CX049871H8	E

Legend: E=Empty F=Full I=In Use

Note: Due to thick layers of paint and rust, some digits may be mis-identified. Some bottles which were hooked up to the transformers did not have attainable serial numbers.

# Exhibit E

## IAGP Nitrogen Bottles

Contractor to Replace? (Y/N)	Bldg.#	Bottle#	Status
N	1233	USNX44942	F
N	1233	8146708	F
N	1233	H2073454	F
N	1233	USN3335941	F
N	1233	353886	F
N	1233	11592	F
N	1233	HS105539	F
N	1233	28418	F
N	1233	H150168	F
N	1233	X4541	F
N	1233	209024	F
N	1233	A91911	F
N	1233	H8064030Y	F
N	1233	186998	F
N	1233	H226256	I
N	1233	H758063	I
N	1233	HSC7985-P	I
N	1233	HSC8346-P	I
N	1233	77620	I
N	1233	48512	I
N	1233	H210153	I
N	1233	H1817230	I
N	1233	H150458	I
N	1233	114898	I
N	1233	N91369	I
N	1233	H289956	I
N	1233	H759760	I
N	1233	AF303476	I
N	1233	A1276	I
N	1233	H232011	I
N	1233	AF255541	I
N	1233	H2400617	I
N	1233	DA79195	I
N	1233	H144792	I
N	1233	189408	I
N	1239	H227030	F
N	1239	K154688	F
N	1239	833250EB387	I
N	1243	486326	F
N	1243	4185061	F
N	1243	R-83057	I
N	1243	H2095321	I
N	1253	3081128	F
N	1253	193147	F

Legend: E=Empty F=Full I=In Use

Note: Due to thick layers of paint and rust, some digits may be mis-identified. Some bottles which were hooked up to the transformers did not have attainable serial numbers.

# Exhibit E

## IAGP Nitrogen Bottles

Contractor to Replace? (Y/N)	Bldg.#	Bottle#	Status
N	1253	235399	I
N	1266	AF325521	E
N	1266	211735	E
N	1266	195266	I
N	1266	11640	I
N	1290	P7-511	F
N	1290	28106	F
N	1290	Unidentifiable	F
N	1290	Unidentifiable	I
N	1290	H1212345	I
N	1247B	H225656	E
N	1247B	G2643198	F
N	1247B	V93444	F
N	1247B	H111544	I
N	1247B	195308	I
N	1247B	32587	I
N	1247D	225523	E
N	1247D	177344	E
N	1247D	H503379	E
N	1247D	H117565	E
N	1247D	H141796	I
N	1247D	121310	I
N	1247D	3740	I
N	1247F	DA92118	E
N	1247F	H218201	E
N	1247F	307006	E
N	1247F	J225259	E
N	1247F	G1446684	F
N	1247F	119985	I
N	1247F	Unidentifiable	I
N	1247F	11911	I
N	1251A	USNX16916	E
N	1251A	H225966	E
N	1251A	H1752197	E
N	1251A	DA-91842	I
N	1251A	H-137901	I
N	1268B	AF325490	E
N	1268B	H114716	F
N	1268B	H2401445	I
N	Dgsub	H114707	I
N	Dhsub	202820	E
N	Dhsub	191088	F
N	Dhsub	H3714	I

Legend: E=Empty F=Full I=In Use

Note: Due to thick layers of paint and rust, some digits may be mis-identified. Some bottles which were hooked up to the transformers did not have attainable serial numbers.



# EXHIBIT G—SAFETY AND HEALTH PLAN

(Labeled Appendix F by Contractor)

## EXHIBIT H—LIST OF GOVERNMENT SPECIFIED COSTS FOR CLAUSE B.7

In accordance with B-7, GOVERNMENT-SPECIFIED COSTS, the following estimated other direct costs (thousands) are included in the estimated cost of the contract.

Description Below	1	2	3	4	5	6	7	
	SOW	SOW	SOW	SOW	SOW	SOW	SOW	
Contract Period	2.1	2.2.1	2.2.2	3.1.4 3.1.5	3.3.4	4.1.3	4.1.5	Total
Period 1	170	120	170	170	80	40	30	780
Period 2	290	150	210	210	110	60	40	1,070
Period 3	360	150	220	220	110	60	40	1,160
Period 4	560	160	220	220	110	60	40	1,370
Period 5	310	80	110	110	60	30	20	720
Period 6	320	80	110	110	60	30	20	730
Period 7	320	80	120	120	60	30	20	750
Period 8	320	80	120	120	60	30	20	750
Period 9	330	90	120	120	60	30	20	770
Period 10	670	170	240	240	120	60	40	1,540
Period 11	690	170	250	250	130	70	40	1,600
Period 12	710	180	260	260	130	70	40	1,650
Period 13	360	90	130	130	70	40	20	840

Descriptions of the above estimated costs follow:

1. SOW 2.1, Research Facility Operations – Consumables, materials, supplies, tools and small equipment to operate the major research facilities (defined in SOW 2.02, Appendices 2.2 and 2.3) and support operations in other research facilities (defined in SOW 2.02, Appendices 2.2 and 2.3) during the performance period. Includes but is not limited to such things as hydraulic oil, lubrication, fasteners, electronic components, instrumentation, rigging support, and spare parts. Values increase as major research facilities are fully transitioned to the contractor. The Government will provide the test gas medium.
2. SOW 2.2.1, Central Utilities Ops, West Area Steam Plant – Consumables, materials, spare parts, supplies, tools and small equipment for operating the steam plant. Includes but it not limited to oils, dessicant materials, water treatment chemicals, and propane. The Government will supply the oil and gas fuel for the steam plant.
3. SOW 2.2.2, Central Utilities OPS, Research Air Compressor Station – Consumables, materials, spare parts, supplies, tools and small equipment for operating the compressor station. Includes but is not limited to oils, dessicant materials, water treatment chemicals, and propane.
4. SOW 3.1.4/3.1.5, Preventative Maint. – Consumables, materials, spare parts, supplies, tools and equipment necessary to accomplish PM work. It includes but is not limited to replacement of switches, meters, contactors, fuses, filters, belts, fasteners, hoses, lubricants; the testing of oils; and chemicals and testing for water treatment.
5. SOW 3.3.4, FAS Maintenance and Repair – Consumables, materials, spare parts, supplies, tools and small equipment for maintenance and repair of Facility Automation equipment. It includes but is not limited to electronic parts, computer components, wiring, instrumentation and diagnostic equipment.
6. SOW 4.1.3, Pressure System Recertification Services – Materials, spare parts, supplies, small equipment, subcontract cost and additional NDE testing to complete emergency pressure recertification repairs. Repairs outside this allowance will be funded separately through IDIQ work orders.
7. SOW 4.1.5, Drawing Files – Supplies such as paper and toner for reproducing drawings and for archiving documents. Offerors are reminded that they are responsible for providing all facilities (e.g. vehicles, personal computers, copiers, fax machines) necessary to perform the requirement in the SOW except as identified in Exhibits D and E, SOW, and NASA , AR Supplement 1852.245-77 of the contract. The Contractor must replace any facility noted in the above contract sections that reaches the end of its useful life or is beyond economical repair and is still required for performance of the SOW. This replacement equipment shall be proposed according to your approved accounting system.

# Exhibit I

## DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION

*(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)*

### 1. CLEARANCE AND SAFEGUARDING

A. Facility Clearance Required

**SECRET**

B. Level Of Safeguarding Required

**SECRET**

### 2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

<b>X</b>	A. PRIME CONTRACT NUMBER	NNL04AA37C
	B. SUBCONTRACT NUMBER	
	C. SOLICITATION OR OTHER NUMBER	Due Date (YYMMDD)

### 3. THIS SPECIFICATION IS: *(X and complete as applicable)*

<b>X</b>	A. ORIGINAL <i>(Complete Date In All Cases)</i>	Date (YYMMDD)
	B. REVISED <i>(Supersedes all previous specs)</i>	Revision No. Date (YYMMDD)
	C. FINAL <i>(Complete Item 5 In All Cases)</i>	Date (YYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT?  YES  NO. If Yes, complete the following: \_\_\_\_\_ *(Preceding Contract Number)* is transferred to this follow-on contract.

Classified material received or generated under \_\_\_\_\_

5. IS THIS A FINAL DD FORM 254?  YES  NO. If Yes, complete the following: \_\_\_\_\_

In response to the contractor's request dated N/A retention of the classified material is authorized for the period N/A

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

A. Name, Address, And Zip Code	B. Cage Code	C. Cognizant Security Office <i>(Name, Address, And Zip Code)</i>
SVERDRUP TECHNOLOGY, INC 600 WILLIAM NORTHERN BLVD. TULLAHOMA, TN 37388	07486	DEFENSE SECURITY SERVICE VIRGINIA BEACH INDUSTRIAL SECURITY FIELD OFFICE PEMBROKE 5, SUITE 525 VIRGINIA BEACH, VA 23462-5460

7. SUBCONTRACTOR

A. Name, Address, And Zip Code	B. Cage Code	C. Cognizant Security Office <i>(Name, Address, And Zip Code)</i>
N/A	N/A	N/A

8. ACTUAL PERFORMANCE

A. Location	B. Cage Code	C. Cognizant Security Office <i>(Name, Address, And Zip Code)</i>
NASA LANGLEY RESEARCH CENTER HAMPTON, VA 23681-2199	N/A	N/A

### 9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

**RESEARCH OPERATIONS, MAINTENANCE ENGINEERING AND RELATED INFORMATION TECHNOLOGY  
(ROME) CONTRACT**

10. CONTRACTOR WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
A. Communications Security (Comsec) information	<b>X</b>		A. Have Access To Classified Information Only At Another Contractor's Facility Or A Government Activity		<b>X</b>
B. Restricted Data		<b>X</b>	B. Receive Classified Documents Only		<b>X</b>
C. Critical Nuclear Weapon Design Information		<b>X</b>	C. Receive And Generate Classified Material	<b>X</b>	
D. Formerly Restricted Data		<b>X</b>	D. Fabricate, Modify, Or Store Classified Hardware	<b>X</b>	
E. Intelligence Information			E. Perform Services Only		<b>X</b>
(1) Sensitive Compartmented Information (Sci)		<b>X</b>	F. Have Access To U.S. Classified Information Outside The U.S., Puerto Rico, U.S. Possessions And Trust Territories		<b>X</b>
(2) Non-Sci		<b>X</b>	G. Be Authorized To Use The Services Of Defense Technical Information Center (DtIc) Or Other Secondary Distribution Center		<b>X</b>
F. Special Access Information	<b>X</b>		H. Require A Comsec Account		<b>X</b>
G. Nato Information		<b>X</b>	I. Have Tempest Requirements		<b>X</b>
H. Foreign Government Information		<b>X</b>	J. Have Operations Security (Opsec) Requirements	<b>X</b>	
I. Limited Dissemination Information		<b>X</b>	K. Be Authorized To Use The Defense Courier Service		<b>X</b>
J. For Official Use Only Information	<b>X</b>		L. Other <i>(Specify)</i>		
K. Other <i>(Specify)</i>					
N/A					

*Previous editions are obsolete*

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release.

Direct  Through (Specify)

**“NASA LANGLEY RESEARCH CENTER, M/S 126, HAMPTON, VA 23681-2199”**  
**ATTN: Lisa Harvey “757-864-2444”**

To the Office of Public Affairs, National Aeronautics and Space Administration, Washington, DC 20546, for review.  
 \*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

CLASSIFICATION GUIDANCE WILL BE PROVIDED BY THE USER AGENCY AS NECESSARY.

PERFORMANCE OF THE CONTRACT SHALL REQUIRE ACCESS TO CLASSIFIED INFORMATION AT THE LOCATION IDENTIFIED IN SECTION 8 OF THIS DOCUMENT. LIMITED ACCESS AT CLEARED CONTRACTOR FACILITIES OR OTHER AREAS APPROVED BY THE GOVERNMENT MAY BE NECESSARY TO SUPPORT UNIQUE CLASSIFIED SUPPORT EFFORTS.

A LIMITED NUMBER OF ESSENTIAL CONTRACTOR MANPOWER POSITIONS WILL REQUIRE A FINAL SECRET PERSONNEL SECURITY CLEARANCE (PCL) UPON IMPLEMENTING THE AFFECTED PHASE OF THIS CONTRACT. THE GOVERNMENT SHALL IDENTIFY TO THE CONTRACTOR THOSE POSITIONS REQUIRING FINAL PCL'S. THE CONTRACTOR FACILITY SECURITY OFFICER (FSO) SHALL VERIFY THE SECURITY CLEARANCE STATUS OF EMPLOYEES SUPPORTING THIS CONTRACT VIA STANDARD VISIT REQUEST SUBMITTED ANNUALLY OR AS NEEDED. THE VISIT REQUEST SHALL INCLUDE THE LEVEL OF CLEARANCE, DATE OF CLEARANCE, INVESTIGATION TYPE AND DATE OF COMPLETION.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. (If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

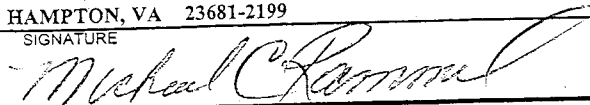
Yes  No

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. (If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

Yes  No

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE (include Area Code)
MICHEAL C. RAMMEL	SECURITY SPECIALIST	757-864-3420

d. ADDRESS (Include Zip Code) NASA LANGLEY RESEARCH CENTER M/S 450, ATTN: MICHAEL RAMMEL HAMPTON, VA 23681-2199 SIGNATURE 	17. REQUIRED DISTRIBUTION	
	<input checked="" type="checkbox"/>	A. Contractor
	<input type="checkbox"/>	B. Subcontractor
	<input checked="" type="checkbox"/>	C. Cognizant Security Office For Prime And Subcontractor
	<input type="checkbox"/>	D. U.S. Activity Responsible For Overseas Security Administration
	<input checked="" type="checkbox"/>	E. Administrative Contracting Officer
<input checked="" type="checkbox"/>	F. Others As Necessary	

## EXHIBIT J—REGISTER OF WAGE DETERMINATION AND FRINGE BENEFITS

94-2544 VA, NORFOLK                      07/02/02  
 \*\*\*FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL\*\*\*  
 WASHINGTON D.C. 20210

Wage Determination No.: 1994-2544

William W. Gross              Division of              Revision No.: 25  
 Director              Wage Determinations |              Date Of Last Revision: 06/24/2002

States: North Carolina, Virginia

Area: North Carolina Counties of Camden, Chowan, Currituck, Gates, Pasquotank, Perquimans  
 Virginia Counties of Chesapeake, Gloucester, Hampton, Isle of Wight, James City, Mathews,  
 Newport News, Norfolk, Poquoson, Portsmouth, Southampton, Suffolk, Surry, Virginia Beach,  
 Williamsburg, York

\*\*Fringe Benefits Required Follow the Occupational Listing\*\*

OCCUPATION TITLE	MINIMUM WAGE RATE
Administrative Support and Clerical Occupations	
Accounting Clerk I	8.38
Accounting Clerk II	10.58
Accounting Clerk III	13.17
Accounting Clerk IV	14.28
Court Reporter	12.87
Dispatcher, Motor Vehicle	12.63
Document Preparation Clerk	10.68
Duplicating Machine Operator	9.93
Film/Tape Librarian	9.60
General Clerk I	7.91
General Clerk II	9.73
General Clerk III	12.10
General Clerk IV	13.53
Housing Referral Assistant	14.93
Key Entry Operator I	9.13
Key Entry Operator II	11.49
Messenger (Courier)	7.89
Order Clerk I	11.13
Order Clerk II	14.56
Personnel Assistant (Employment) I	11.16
Personnel Assistant (Employment) II	12.90
Personnel Assistant (Employment) III	13.63
Personnel Assistant (Employment) IV	15.61
Production Control Clerk	16.40
Rental Clerk	11.35
Scheduler, Maintenance	12.36
Secretary I	12.36
Secretary II	14.39
Secretary III	16.42
Secretary IV	19.25
Secretary V	20.21
Service Order Dispatcher	12.14
Stenographer I	10.45
Stenographer II	12.90
Supply Technician	17.31
Survey Worker (Interviewer)	12.02

Switchboard Operator-Receptionist	9.20
Test Examiner	13.08
Test Proctor	13.08
Travel Clerk I	9.92
Travel Clerk II	10.59
Travel Clerk III	11.30
Word Processor I	10.70
Word Processor II	12.90
Word Processor III	13.50
Automatic Data Processing Occupations	
Computer Data Librarian	8.55
Computer Operator I	10.48
Computer Operator II	12.11
Computer Operator III	15.00
Computer Operator IV	17.38
Computer Operator V	18.47
Computer Programmer I (1)	19.24
Computer Programmer II (1)	21.77
Computer Programmer III (1)	25.96
Computer Programmer IV (1)	27.62
Computer Systems Analyst I (1)	25.31
Computer Systems Analyst II (1)	27.62
Computer Systems Analyst III (1)	27.62
Peripheral Equipment Operator	11.06
Automotive Service Occupations	
Automotive Body Repairer, Fiberglass	18.20
Automotive Glass Installer	16.60
Automotive Worker	16.60
Electrician, Automotive	17.38
Mobile Equipment Servicer	15.00
Motor Equipment Metal Mechanic	18.20
Motor Equipment Metal Worker	16.60
Motor Vehicle Mechanic	18.20
Motor Vehicle Mechanic Helper	14.15
Motor Vehicle Upholstery Worker	15.78
Motor Vehicle Wrecker	16.60
Painter, Automotive	17.38
Radiator Repair Specialist	15.78
Tire Repairer	13.37
Transmission Repair Specialist	18.20
Food Preparation and Service Occupations	
Baker	8.98
Cook I	8.39
Cook II	9.28
Dishwasher	7.42
Food Service Worker	7.92
Meat Cutter	11.54
Waiter/Waitress	7.56
Furniture Maintenance and Repair Occupations	
Electrostatic Spray Painter	20.27
Furniture Handler	13.34
Furniture Refinisher	16.03
Furniture Refinisher Helper	13.05
Furniture Repairer, Minor	14.56
Upholsterer	16.03
General Services and Support Occupations	
Cleaner, Vehicles	8.29
Elevator Operator	7.60
Gardener	10.19
House Keeping Aid I	7.14
House Keeping Aid II	9.15
Janitor	8.74

Laborer, Grounds Maintenance	9.52
Maid or Houseman	7.11
Pest Controller	9.61
Refuse Collector	9.11
Tractor Operator	9.71
Window Cleaner	9.50
Health Occupations	11.11
Dental Assistant	
Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	12.63
Licensed Practical Nurse I	10.44
Licensed Practical Nurse II	11.71
Licensed Practical Nurse III	13.10
Medical Assistant	9.79
Medical Laboratory Technician	11.39
Medical Record Clerk	10.90
Medical Record Technician	13.15
Nursing Assistant I	7.67
Nursing Assistant II	8.63
Nursing Assistant III	9.42
Nursing Assistant IV	10.56
Pharmacy Technician	11.84
Phlebotomist	11.71
Registered Nurse I	19.72
Registered Nurse II	23.42
Registered Nurse II, Specialist	23.42
Registered Nurse III	28.34
Registered Nurse III, Anesthetist	28.34
Registered Nurse IV	33.96
Information and Arts Occupations	14.23
Audiovisual Librarian	15.55
Exhibits Specialist I	18.89
Exhibits Specialist II	20.98
Exhibits Specialist III	17.63
Illustrator I	21.42
Illustrator II	23.78
Illustrator III	20.32
Librarian	11.45
Library Technician	11.73
Photographer I	15.55
Photographer II	18.89
Photographer III	20.98
Photographer IV	25.39
Photographer V	
Laundry, Dry Cleaning, Pressing and Related Occupations	6.95
Assembler	6.95
Counter Attendant	8.18
Dry Cleaner	6.95
Finisher, Flatwork, Machine	6.95
Presser, Hand	6.95
Presser, Machine, Drycleaning	6.95
Presser, Machine, Shirts	6.95
Presser, Machine, Wearing Apparel, Laundry	6.95
Sewing Machine Operator	8.77
Tailor	9.68
Washer, Machine	7.49
Machine Tool Operation and Repair Occupations	18.33
Machine-Tool Operator (Toolroom)	20.31
Tool and Die Maker	
Material Handling and Packing Occupations	12.33
Forklift Operator	15.10
Fuel Distribution System Operator	16.72
Material Coordinator	

	16.72
Material Expediter	8.86
Material Handling Laborer	9.15
Order Filler	12.00
Production Line Worker (Food Processing)	11.59
Shipping Packer	10.56
Shipping/Receiving Clerk	11.85
Stock Clerk (Shelf Stocker; Store Worker II)	9.42
Store Worker I	14.93
Tools and Parts Attendant	14.36
Warehouse Specialist	
Mechanics and Maintenance and Repair Occupations	20.53
Aircraft Mechanic	15.13
Aircraft Mechanic Helper	21.44
Aircraft Quality Control Inspector	16.87
Aircraft Servicer	17.74
Aircraft Worker	16.03
Appliance Mechanic	13.37
Bicycle Repairer	18.47
Cable Splicer	16.03
Carpenter, Maintenance	17.61
Carpet Layer	17.46
Electrician, Maintenance	15.47
Electronics Technician, Maintenance I	15.82
Electronics Technician, Maintenance II	16.95
Electronics Technician, Maintenance III	14.56
Fabric Worker	16.79
Fire Alarm System Mechanic	13.84
Fire Extinguisher Repairer	18.32
Fuel Distribution System Mechanic	15.31
General Maintenance Worker	16.79
Heating, Refrigeration and Air Conditioning Mechanic	16.79
Heavy Equipment Mechanic	16.79
Heavy Equipment Operator	16.79
Instrument Mechanic	10.02
Laborer	17.51
Locksmith	16.75
Machinery Maintenance Mechanic	16.79
Machinist, Maintenance	13.05
Maintenance Trades Helper	20.58
Millwright	16.03
Office Appliance Repairer	18.24
Painter, Aircraft	16.03
Painter, Maintenance	16.79
Pipefitter, Maintenance	16.03
Plumber, Maintenance	16.79
Pneudraulic Systems Mechanic	16.79
Rigger	15.31
Scale Mechanic	16.79
Sheet-Metal Worker, Maintenance	15.31
Small Engine Mechanic	16.79
Telecommunication Mechanic I	20.16
Telecommunication Mechanic II	16.79
Telephone Lineman	16.79
Welder, Combination, Maintenance	16.79
Well Driller	16.79
Woodcraft Worker	13.84
Woodworker	
Miscellaneous Occupations	7.35
Animal Caretaker	9.24
Carnival Equipment Operator	9.69
Carnival Equipment Repairer	6.58
Carnival Worker	



Cashier	7.09
Desk Clerk	7.98
Embalmer	17.93
Lifeguard	8.07
Mortician	19.39
Park Attendant (Aide)	10.13
Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	8.22
Recreation Specialist	13.50
Recycling Worker	11.15
Sales Clerk	8.07
School Crossing Guard (Crosswalk Attendant)	9.00
Sport Official	7.02
Survey Party Chief (Chief of Party)	12.43
Surveying Aide	7.76
Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	11.30
Swimming Pool Operator	10.33
Vending Machine Attendant	10.14
Vending Machine Repairer	11.88
Vending Machine Repairer Helper	10.14
Personal Needs Occupations	
Child Care Attendant	7.15
Child Care Center Clerk	11.06
Chore Aid	6.57
Homemaker	10.63
Plant and System Operation Occupations	
Boiler Tender	16.79
Sewage Plant Operator	17.81
Stationary Engineer	16.79
Ventilation Equipment Tender	13.05
Water Treatment Plant Operator	17.81
Protective Service Occupations	
Alarm Monitor	10.86
Corrections Officer	13.17
Court Security Officer	13.19
Detention Officer	13.19
Firefighter	13.65
Guard I	8.18
Guard II	9.79
Police Officer	16.90
Stevedoring/Longshoremen Occupations	
Blocker and Bracer	14.84
Hatch Tender	14.84
Line Handler	14.84
Stevedore I	14.04
Stevedore II	15.42
Technical Occupations	
Air Traffic Control Specialist, Center (2)	28.21
Air Traffic Control Specialist, Station (2)	19.46
Air Traffic Control Specialist, Terminal (2)	21.43
Archeological Technician I	13.01
Archeological Technician II	14.63
Archeological Technician III	18.07
Cartographic Technician	17.38
Civil Engineering Technician	18.89
Computer Based Training (CBT) Specialist/ Instructor	23.07
Drafter I	11.46
Drafter II	12.90
Drafter III	16.21
Drafter IV	19.70
Engineering Technician I	15.58
Engineering Technician II	16.67
Engineering Technician III	20.54

Engineering Technician IV	24.87
Engineering Technician V	29.05
Engineering Technician VI	35.89
Environmental Technician	16.43
Flight Simulator/Instructor (Pilot)	26.55
Graphic Artist	18.24
Instructor	19.19
Laboratory Technician	13.51
Mathematical Technician	18.07
Paralegal/Legal Assistant I	12.85
Paralegal/Legal Assistant II	15.60
Paralegal/Legal Assistant III	19.09
Paralegal/Legal Assistant IV	23.09
Photooptics Technician	18.89
Technical Writer	18.98
Unexploded (UXO) Safety Escort	17.93
Unexploded (UXO) Sweep Personnel	17.93
Unexploded Ordnance (UXO) Technician I	17.93
Unexploded Ordnance (UXO) Technician II	21.70
Unexploded Ordnance (UXO) Technician III	26.01
Weather Observer, Combined Upper Air and Surface Programs (3)	15.49
Weather Observer, Senior (3)	16.76
Weather Observer, Upper Air (3)	15.49
Transportation/ Mobile Equipment Operation Occupations	10.22
Bus Driver	7.51
Parking and Lot Attendant	9.80
Shuttle Bus Driver	9.68
Taxi Driver	13.31
Truckdriver, Heavy Truck	9.80
Truckdriver, Light Truck	10.73
Truckdriver, Medium Truck	13.31
Truckdriver, Tractor-Trailer	

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

**HEALTH & WELFARE:** Life, accident, and health insurance plans, sick leave, pension plans, civic and personal leave, severance pay, and savings and thrift plans. Minimum employer contributions costing an average of \$2.56 per hour computed on the basis of all hours worked by service employees employed on the contract.

**VACATION:** 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 8 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

**HOLIDAYS:** A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

- 1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)

2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry- house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges. A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**\*\* UNIFORM ALLOWANCE \*\***

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**\*\* NOTES APPLYING TO THIS WAGE DETERMINATION \*\***

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office,

Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation) and computes a proposed rate).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

EXHIBIT K – COLLECTIVE BARGAINING AGREEMENTS

IAM—CLASSIC CONTRACT, TESSADA AND ASSOCIATES, INC  
IAM, FESS CONTRACT, LBB SUBCONTRACT  
IAM, REOS CONTRACT, DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC  
IBEW, REOS CONTRACT, DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC.  
IBEW, FESS CONTRACT, JOHNSON CONTROLS WORLD SERVICES.INC. through 7/31/03  
IBEW, FESS CONTRACT, JOHNSON CONTROLS WORLD SERVICES.INC. through 7/31/05

COLLECTIVE BARGAINING AGREEMENT

BETWEEN

TESSADA & ASSOCIATES, INC.

AND

INTERNATIONAL ASSOCIATION OF MACHINISTS AND  
AEROSPACE WORKERS  
LOCAL 2531

October 7, 2002 through October 31, 2006

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#### PREAMBLE\*

The Agreement is made and entered into this 7th day of October, 2002, by and between Tessada & Associates, Inc. (TESSADA), its successors and assigns, hereinafter referred to as the "Company" or "Employer, and District Lodge No. 74 and the International Association of Machinists and Aerospace Workers, Local 2531, its successors and assigns, hereinafter referred to as the "IAM" or "Union".

The intent and purpose of this Agreement is to promote and improve economic and industrial relations between the Company and its employees covered by this Agreement, including the establishment of rates of pay, hours of work and conditions of employment, thereby to ensure industrial peace. To that end, it is recognized that there must be mutual understanding, harmony, dignity, respect and cooperation between employees and the Employer; that cooperation must be uninterrupted and duties faithfully performed in order that the Employer and its employees may fulfill their mutual and vital responsibilities to the public and each other; that the business of the Employer must be operated with economy and efficiency with due regard to competitive conditions. To achieve these objectives, the IAM will support the Employer in its efforts to eliminate waste; improve the quality of its service and strengthen goodwill between Tessada & Associates, Inc., its employees and the government customer.

#### ARTICLE 1 - RECOGNITION

1. Pursuant to the certification of the National Labor Relations Board in Case No. 5-RC-8191, the Employer recognizes the IAM as the sole collective bargaining agent, with regard to wages, hours and other terms and conditions of employment, for its full-time and regular part-time employees in the job classifications set-forth in Appendix A and employed on the NASA CLASIC Contract by the Employer at the Hampton, VA / NASA facility; but excluding all office clerical employees, professional employees, temporary employees, guards, managerial employees and supervisors as defined in the Act. When the terms "employee" and "employees" are used in this Agreement, they shall mean employees in the bargaining unit described in this Article.

#### ARTICLE 2 - EMPLOYMENT

1. The Employer may establish reasonable qualifications for applicants for employment, consistent with applicable laws. In determining the qualifications of new employees, the Employer will require the applicant to be mentally and physically capable and competent to protect the best interests of the Employer. In this regard, the Employer may develop and implement procedures for pre-employment, reasonable cause and random drug/alcohol screening.

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\*References to the male gender throughout this Agreement should be considered as applicable to both male and female employees.

2. All employees newly hired or rehired (excluding those employees employed by the predecessor employer on March 31, 2002) shall be considered "probationary" employees until completion of their fiftieth (50th) day of actual work. This probationary period may be further extended by mutual agreement of the Company and the IAM. During this probationary period, the Company may assign, discipline and discharge any such probationary employee in its discretion, and such discharge shall not be subject to the grievance and arbitration provisions of this Agreement.

#### ARTICLE 3 - IAM MEMBERSHIP

1. All present employees who are members of the Union on the effective date of this Agreement shall remain members of the Union in good standing or pay a representation fee in an amount equivalent to the regular monthly Union dues. Present employees who are not members of the Union and/or employees who are hired hereafter, shall become and remain members in good standing in the Union or pay a representation fee in an amount equivalent to the regular monthly Union dues within thirty (30) days following the effective date of this Agreement, or date of hire, whichever is later. The parties agree that there shall be no discrimination against any employee because of membership or nonmembership in the Union.
2. The Employer agrees to deduct biweekly membership dues from the earnings of the employees who have so authorized in writing and remit same to the Union. Any change in the amount or method of biweekly membership dues must be authorized in writing by the Union with a copy posted in a timely manner on the Union Bulletin Board. Such authorization to be valid shall conform to applicable State and Federal laws. The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs, and/or other forms of liability that shall arise out of or by reason of action taken or not taken by the Company relative to this service.
3. The Company agrees to furnish a bulletin board located next to the Company's Bulletin Board for the use of the Union for posting of matters relating to Union meetings and other Union matters of a noncontroversial, nonpolitical nature only. All such notices as posted by the Union shall be signed by an authorized Union representative.
4. The Company shall recognize two (2) Shop Stewards, one (1) per Division, designated by the Union in writing. One of these two (2) Shop Stewards shall be designated by the Union in writing as the Chief Steward and shall be so recognized by the Company. All Shop Stewards shall be allowed reasonable paid time during working hours to investigate complaints, process grievances, and attend meetings with the Company in connection with their collective bargaining responsibility; provided however, the Steward must first request and obtain permission from his Supervisor and the Supervisor of any other employee(s) involved and such permission shall not be unreasonably denied.



#### ARTICLE 4 - MANAGEMENT RIGHTS

1. All management functions and rights which the Employer has not expressly modified or restricted by a specific provision of the Agreement are retained and vested exclusively in the Employer, including but not limited to: the right to reprimand, suspend, discharge or otherwise discipline employees for just cause; to hire, promote, demote, transfer, layoff or recall to work; to determine the starting and quitting times and the number of hours to be worked; to establish, expand, reduce, alter, combine, consolidate, close down or abolish any job classification, department, division, operation, service or facility; to subcontract work; to determine the products and services to be provided and the schedules of operation and maintenance; to control and regulate the use of machinery, equipment and other property of the Employer; to make or change work rules, policies and practices; to introduce new and improved research, distribution, transportation and maintenance methods, materials, services, operations, machinery or equipment; to determine the size and composition of the work force and the assignment of work; and otherwise generally to manage the Company, to direct the work force, and establish terms and conditions of employment, except as expressly modified or restricted by a specific provision of this Agreement.
2. In order to ensure conformity with the Drug Free Workplace Act, and regulations issued by various government agencies, including but not limited to the Department of Transportation, it is specifically recognized that the Employer retains the right to implement a Drug and Alcohol Testing Program. In the event of a change in the collection site, the Union will be notified and the new site shall meet HHS and DOT standards.
3. The Company agrees that any subcontracting of bargaining unit work shall not result in the layoff of current bargaining unit employees.

#### ARTICLE 5 - WAGES

1. The Employer shall pay the wage rates set forth in Appendix A attached hereto.
2. The manning needs of any classification covered by this Agreement shall be determined entirely by the Company. The Agreement will not constitute a guarantee of any particular job or jobs within any particular classification, nor shall it constitute a guarantee of any particular duties or deleting of duties from a classification.
3. The Company at its sole option may implement new classifications and/or job descriptions in light of changed conditions. The Company will offer to negotiate with the Union - by telephone or in person - concerning the applicable pay rate; provided however that these negotiations must be completed within five (5) days of the offer.

4. It is agreed and understood that the utilization of the lead position will be solely at the discretion of the Company, including the determination of the need, number, and employee selected. Leaders shall be responsible for designating and coordinating work tasks within their work area, relaying orders of supervisors and assisting in the training of new employees. The leader shall assume responsibility for the overall performance of their work area as assigned by the supervisor.
5. All newly hired employees shall receive \$.50 per hour less than the above rates during their first fifty (50) days of actual work.
6. A relief employee is one who works intermittently and is available to cover any classification included in Appendix A. They are employed during peak work loads of short duration or when an employee is on vacation, sick (to include short term disability), on leave without pay, on leave of absence or in training. The Company agrees to inform the Union of the status of relief employees when asked by a Steward. Relief employees are entitled to wages only and will not be entitled to any benefits.
7. Employees temporarily transferred to other job classifications shall receive either their old rate of pay, or the rate for the temporary classification, whichever is higher.

#### ARTICLE 6 - VACATIONS

1. Regular full-time employees shall earn vacation as follows:
 

year 0-1	80 hours annually (accrual rate of 3.077 hours per pay period)
year 1-7	120 hours annually (accrual rate of 4.616 hours per pay period)
year 7 +	160 hours annually (accrual rate of 6.154 hours per pay period)
2. Length of service for vacation eligibility is defined as continuous service with the present contractor (as limited by Article 14, § 5), wherever employed, and the predecessor contractors in the performance of similar work at the same Federal facility.
3. When a holiday falls during an employee's vacation, the employee will receive holiday pay for that day and that day shall not be counted against the employee's vacation time.
4. Employees may take their full accrued vacation at one time, in units of days or in minimum increments of one (1) hour as the employees prefer, subject to approval by their supervisor.
5. Vacation pay shall be based on the employee's regular rate of pay at the time that vacation is taken.
6. Employees may submit in writing a vacation request to their supervisor for approval no earlier than ninety (90) calendar days prior to the first requested vacation day. Forty-five

(45) days prior to the first vacation day requested the employee will be informed as to whether the request has been approved. If more employees have requested the same vacation day(s) than can be approved, employee seniority shall be controlling (see Article 14). All vacation requests submitted with less than forty-five (45) days notice, as defined above, shall be determined in the order the requests are received. All vacation requests must be submitted in writing to the appropriate supervisor at least one (1) week in advance.

7. Vacations may be accumulated and carried over from one calendar year to another. No employee may accumulate or carry over more than 240 hours of vacation past the last day of the last pay period in December of any given year.

#### ARTICLE 7 - HEALTH AND WELFARE PLANS

1. The Company agrees that Health, Life, Accidental Death & Dismemberment, and Disability insurance will be continued for all eligible employees for the life of this Agreement.
2. The Company shall have the right to change insurance carriers and plans, provided that the benefits, on a cumulative basis, are not diminished. The Company will notify the Union of any anticipated changes and will afford the Union the opportunity to review and compare the benefits of the new carrier.
3. Payroll deductions for Health Insurance Benefits shall be as follows:

1.) HMO Plan	(per pay period)
Employee only	\$10.00
Employee plus 1 (spouse or child)	\$15.00
Family	\$20.00

2.) PPO Plan	(per pay period)
Employee Only	\$20.00
Employee plus 1 (spouse or child)	\$25.00
Family	\$30.00

- 3.) In the event there is an increase in health insurance premiums during the life of this Agreement, the Company will contribute up to a maximum of \$100.00 per year toward any insurance increase, commencing March 1<sup>st</sup> of each year. Any increases prior to March 1<sup>st</sup> or in excess of \$100.00 per year shall be borne by the employee.

4. Commencing on the Effective Date of this Agreement (see Article 19), employees shall accrue forty (40) hours of sick leave annually based upon an accrual rate of .01923 per hour worked. Sick leave will be earned from the 1<sup>st</sup> day of employment, but may not be used until the completion of the probationary period. Sick leave may be carried forward to subsequent years but there shall be no payout of sick leave and medical documentation may be required.
5. Personal leave is provided for jury duty, bereavement or other personal matters. Employees may take up to three (3) days per year, in minimum increments of one (1) hour, as needed and approved. Leave may be carried forward to subsequent years but there shall be no payout of personal leave.

#### ARTICLE 8 - HOLIDAYS

1. The Employer shall provide the following paid holidays:
 

New Years	Memorial Day	Columbus Day	Christmas
Martin Luther King	Independence Day	Veterans Day	
Presidents	Labor Day	Thanksgiving	
2. If any of these holidays fall on a Sunday, the following Monday shall be observed as the holiday. If any of these holidays fall on a Saturday, the preceding Friday shall be observed as the holiday. To the maximum extent possible, the holidays will be observed in a manner consistent with Government observance.
3. In order to be eligible for holiday pay, the employee must work the last scheduled working day before and the first scheduled working day following the holiday.
4. Any productive work performed on a holiday will be paid at twice the employee's regular rate of pay.

#### ARTICLE 9 - RETIREMENT PLAN

1. The Employer shall contribute to the I.A.M. National Pension Fund, Plan A, for all full-time and regular part-time employees who have completed their probationary period, as follows for each hour worked:
  - \$ .95 per hour effective upon execution
  - \$ 1.00 per hour effective April 1, 2004
  - \$ 1.05 per hour effective April 1, 2005

#### ARTICLE 10 - COMPANY AND SAFETY EQUIPMENT

1. Employees in the applicable job classifications shall, at the Employer's expense and during duty hours, maintain all equipment, including vehicles, owned by the Employer in a safe, mechanical condition in compliance with all laws and ordinances governing the operation of such vehicles. Abuse of the Employer's equipment shall be grounds for discipline, up to and including discharge.
2. The Company will pay up to the sum of \$100.00 for the purchase of safety shoes for all employees, including relief employees required to wear safety shoes in the performance of their job, limited to no more than one (1) pair per year; provided however, that employees in the following classifications may purchase two (2) pairs (up to \$100.00 each) in one year if needed: Truck Driver Heavy, Truck Driver Heavy (Tractor Trailer), Truck Driver Heavy (Furniture) and Laborer Truck Helper (Furniture).

#### ARTICLE 11 - GRIEVANCE AND ARBITRATION

1. Any claim or dispute raised by any Unit employee concerning the interpretation or application of this Agreement shall first be discussed with his immediate supervisor. All such disputes must be presented within five (5) business days (i.e., excluding weekends and recognized holidays) after the event which gave rise to the dispute. If the matter is not thereby resolved the IAM may file a formal grievance in writing within five (5) days of the informal meeting provided above. The written grievance must set forth with specificity the factual basis of the grievance, the specific section of the Agreement allegedly violated and the remedy requested.

Step 1: The IAM representative shall, within five (5) business days of filing a written grievance, hold a meeting with the Supervisor to discuss the grievance. The Supervisor shall render a decision.

Step 2: If the grievance is not resolved the IAM Representative and the Grievant shall, within five (5) business days after the Step 1 meeting, discuss the grievance with the Project Manager (or his designee) and a Human Resources representative. If the grievance is not resolved at Step 2, the IAM may appeal it to arbitration as provided herein.

2. If the matter is not settled pursuant to paragraph 1, within ten (10) days of the conclusion of Step 2, the IAM shall provide written notice to the Employer of its intention to submit the grievance to arbitration. The formal request for arbitration must be mailed to the Federal Mediation and Conciliation Service ("FMCS") within twenty (20) days of the written notice of intent to take a grievance to arbitration.

3. The IAM may request the FMCS to submit a panel of five (5) arbitrators and the impartial arbitrator shall then be selected by alternate striking. A second panel may be requested by either party. The compensation and expenses of such arbitrator shall be paid by the Employer and the IAM in equal share. The Employer and the IAM shall also share the expense of providing a neutral location for the arbitration. All other expenses of such arbitration shall be paid by the party incurring the same.
4. The arbitrator shall not be empowered in any way to change, modify, add to or subtract from the provisions of this Agreement. Any settlement arrived at in accordance with the provisions of the above paragraphs, or the decision of the arbitrator made pursuant to the provisions of the above paragraphs, shall be final and binding upon all parties to such matter.
5. No aggrieved party shall have any right to invoke the grievance procedure except as provided above, nor the arbitration procedure except as provided above. In this regard, the time limitations set forth above are intended to be strict statutes of limitation and any grievance and/or request for arbitration shall be null and void unless brought within the time periods set forth above. In the event a time limit within the steps (section 1) are not met by the IAM the grievance will be considered to have been dropped. If a time limit is not met by the Employer, the grievance will be treated as having been denied and the IAM may proceed to the next step.

#### ARTICLE 12 - HOURS OF WORK

1. The Employer shall establish and assign shifts of work as necessary to fulfill the terms of the applicable U.S. Government contract.
2. It is recognized and agreed that the standard workweek shall be from Monday 12:01 a.m. to Sunday midnight. It is further agreed and understood that the normal workday shall consist of eight (8) hours per day and the normal workweek shall consist of forty (40) hours of work per week, Monday through Friday, inclusive. Employees will be provided an unpaid meal period each workday.
3. Employees will be allowed to use flextime for short durations to fulfill personal obligations. When an employee has a need to use flextime, he must make up the time missed during the same workweek and within the same pay period. Flextime is at the discretion of the supervisor and will only be granted after management has ensured that operational needs have been met.
4. Overtime at 1½ times the employee's regular rate of pay will be paid for all hours of productive work in excess of 40 hours of productive work per week; provided however that in any work week which contains a holiday as provided in Article 8, § 1, overtime at 1½ times the employee's regular rate of pay will be paid for all hours of productive work

in excess of 32 hours of productive work per week. Any productive work performed on a Sunday shall be paid at twice the employees' regular rate of pay. Overtime shall be at the sole discretion of the Company; provided however that the Company shall attempt to evenly distribute overtime within each classification. There shall be no pyramiding of overtime or premium pay.

5. Employees called-in to work, or who report as regularly scheduled, shall be guaranteed four (4) hours of pay.

#### ARTICLE 13 - LEAVES OF ABSENCE

1. The Company recognizes that from time-to-time it may be necessary for employees to take a personal leave of absence. Although such leaves are in the sole discretion of the Company it is agreed that every effort will be made to accommodate the employee's personal needs. Such leaves are unpaid. Benefits and rights under this Agreement are not available and leaves generally may last for up to thirty (30) days.
2. The parties recognize and agree that all provisions of the Family and Medical Leave Act shall apply.
3. In the event of any employee enlisting or being drafted for military service, he shall retain his entire seniority with the Employer and shall be given his former job back upon his return, or an equivalent position, in accordance with the provisions of any applicable federal laws.
4. When employees are granted a leave of absence, the Employer shall provide them with written permission and a copy shall be forwarded to the IAM.
5. A maximum of three (3) employees will be granted leaves of absence, without pay, for the purpose of attending collective bargaining negotiations.
6. When a full-time employee is called for jury duty, the Employer shall grant the employee an unpaid (except as provided in Article 7) leave of absence not to exceed three weeks.

#### ARTICLE 14 - SENIORITY

1. Seniority shall be the period of continuous employment, including that with a predecessor government contractor, at the Employer's Hampton, Virginia, facility. The Employer shall maintain a seniority list and mail copies to the IAM every six (6) months.
2. Seniority shall prevail in all cases of layoff and recall; provided however that the employee is able to perform all job duties of the position. Thus, the employee last hired

in the specific job classification shall be laid off first, and in recalls after layoffs, employees shall be recalled in reverse order to that in which they were laid off.

3. Employees in a job classification designated for elimination may exercise their Company Seniority and bump a less senior employee, provided that the more senior employee has held that job classification or has been trained and certified as qualified in the classification within the past twelve (12) months.
4. When an employee is recalled the Employer shall give written notice by certified mail forwarded to the employee's last known address, and shall hold the job available for a period of one (1) week from the date of mailing the notice. Employees recalled shall notify the Employer of their intention within three (3) days of date of receipt of notice.
5. An employee shall lose seniority for any of the following reasons:
  - (1) Voluntary resignation, retirement or discharge;
  - (2) Leave of Absence for more than six months;
  - (3) Layoff for a period of six months;
  - (4) Absence for three (3) days without previously notifying the Company, unless prevented from providing said notice by a medical emergency;
  - (5) An employee engages in other employment during a leave of absence without obtaining prior permission of the Company; or
  - (6) Settlement has been made for total disability.
6. The Stewards designated in Article 3, Section 4 shall be treated as having the most seniority for purposes of Sections 2 and 3 of this Article.
7. The Company agrees to post for five (5) workdays all job vacancies within the bargaining unit. The vacancy shall be awarded to the bidder on the basis of Company seniority provided he has held the job classification or has been trained and certified as qualified in the classification within the prior twelve (12) months. In the event there are no qualified bidders, any employee may apply for any vacancy and will be considered with all other applicants. In the event qualifications and experience are equal, preference will be given to current employees who will be subject to a twenty-five (25) workday probationary period. If the employee fails to complete the probationary period, he will be returned to his former position.

#### ARTICLE 15 - NONDISCRIMINATION

1. No employee shall be discriminated against in hiring, promotions or continued employment because of race, color, age, religion, sex, national origin or disability. Determinations made to comply with the Americans with Disabilities Act of 1990 (ADA) will be handled on an individual, case-by-case basis and will be nonprecedent setting.



ARTICLE 16 - NO STRIKE - NO LOCKOUT

1. For the duration of this Agreement the IAM, its officers, agents, representatives and employee/members shall not in any way, directly or indirectly, authorize, cause, assist, encourage, participate in, ratify or condone any strike, sympathy strike, sit-down, sit-in, slow-down, cessation or stoppage of work, boycott, picketing, or other interference with or interruption of work at any of the Company's operations.
2. For the duration of this Agreement the Company shall not lockout its employees.

ARTICLE 17 - GENERAL

1. Duly authorized representatives of the IAM, with advance notice to, and permission from (which shall not be unreasonably denied) the Employer, shall be permitted to investigate the standing of all employees and investigate conditions at the job site covered by this Agreement and shall be permitted to assure that this Agreement is being enforced; provided that no interview shall be held without the advance permission of the immediate Supervisor, unreasonably interrupt the duties of any employee, will be on unpaid time and said representatives shall observe all Company rules.
2. "Hours worked" and "work" for purposes of all provisions of this Agreement are herein defined as "hours authorized, recorded and approved," and include hours such as productive work, holiday, vacation and leave.
3. The parties recognize the importance of safety and health in the workplace and therefore agree to cooperate in this objective and fully support the NASA CLASIC Safety and Health Plan.
4. It is understood and agreed between the parties that the primary function of the Supervisor is to supervise. However, the parties also agree that supervisors and other nonbargaining unit employees of the Company may from time-to-time need to perform work covered by this Agreement. The parties agree that said work will be for the purpose of emergencies, covering temporary absences (when no qualified employee is available) or training, so long as such use of nonbargaining unit employees does not result in the layoff of the employee(s) who are qualified for and regularly perform such work.
5. The Company agrees to make payroll deductions available to employees who voluntarily elect to contribute to the Machinist Non-Partisan Political League (MNPL). Employees may cancel this check-off with thirty (30) days written notice. The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs, and/or other forms of liability that shall arise out of or by reason of action taken or not taken by the Company relative to this service.

6. Should any part or provision of this Agreement be rendered invalid by final judgment of a court of competent jurisdiction by reason of any existing or subsequently enacted legislation, such invalidation of any part or provision hereof shall not serve to invalidate the remaining provisions, and they shall remain in full force and effect for the term of this Agreement.

ARTICLE 18 - FINALITY

1. This Agreement constitutes the sole and exclusive agreement between the parties with respect to rates of pay, wages, hours of work and other conditions of work, and supersedes all prior agreements, commitments, and practices, whether written or oral, between the current employer and the Union, the predecessor employer and the Union, or the current or predecessor employer and any covered employee or employees. No matter or matters shall be the subject of collective bargaining negotiations during the term of this agreement even though such matters may not have been negotiated upon previously nor within the knowledge or contemplation of either or both of the parties at the time of negotiations for this agreement. It is further agreed that this Agreement can only be added to, detracted from, altered, amended or modified by a document in writing, signed on behalf of the parties hereto by their duly authorized officers and representatives

ARTICLE 19 - DURATION

1. THIS AGREEMENT shall become effective on October 7, 2002 and shall be and continue in full force and effect until midnight on September 30, 2006, and this Agreement shall continue in full force and effect from year to year thereafter unless written notice of desire to cancel or terminate this Agreement is served by either party upon the other at least sixty (60) days prior to the aforementioned expiration date or at least sixty (60) days prior to the annual expiration date of any subsequent year thereafter.

FOR TESSADA & ASSOCIATES, INC.

FOR IAM & AW LOCAL 2531

10/15/02  
Date

October 7 2002  
Date

By: [Signature]  
[Signature]  
[Signature]

By: [Signature]  
C. Darleen Jones  
James Butler Jr.  
[Signature]

**APPENDIX A - WAGE SCALE**

<b>JOB CLASSIFICATIONS</b>	<b>10/07/02</b>	<b>03/01/03</b>	<b>03/01/04</b>	<b>03/01/05</b>	<b>03/01/06</b>
<b>Logistics Division</b>					
Automotive Parts Clerk	\$10.79	\$11.11	\$11.44	\$11.78	\$12.13
Automotive/Truck Maintenance Technician	\$16.12	\$16.60	\$17.10	\$17.61	\$18.14
Automotive Worker	\$10.79	\$11.11	\$11.44	\$11.78	\$12.13
Bus Operator	\$12.81	\$13.19	\$13.59	\$14.00	\$14.42
Dispatcher/Moving Coordinator	\$11.91	\$12.27	\$12.64	\$13.02	\$13.41
Disposal Warehouseman	\$11.09	\$11.42	\$11.76	\$12.11	\$12.47
Excess Property Data Entry Clerk	\$11.09	\$11.42	\$11.76	\$12.11	\$12.47
Freight Traffic Specialist	\$13.26	\$13.66	\$14.07	\$14.49	\$14.92
Item Manager	\$12.74	\$13.12	\$13.51	\$13.92	\$14.34
Laborer Truck Helper (Furniture)	\$10.79	\$11.11	\$11.44	\$11.78	\$12.13
Messenger/Mail Clerk/Carrier	\$10.59	\$10.91	\$11.24	\$11.58	\$11.93
Metal Shop Cutter/Burner	\$12.16	\$12.52	\$12.90	\$13.29	\$13.69
Property Management Clerk	\$11.32	\$11.66	\$12.01	\$12.37	\$12.74
PC Service Technician	\$13.58	\$13.99	\$14.41	\$14.84	\$15.29
Receiving Clerk	\$11.17	\$11.51	\$11.86	\$12.22	\$12.59
Sr. Purchase Request Processing Clerk	\$12.74	\$13.12	\$13.51	\$13.92	\$14.34
Senior Receiving Clerk	\$11.63	\$11.98	\$12.34	\$12.71	\$13.09
Sr. Storekeeper	\$11.57	\$11.92	\$12.28	\$12.65	\$13.03
Storekeeper	\$11.09	\$11.42	\$11.76	\$12.11	\$12.47
Tool Crib Attendant	\$13.56	\$13.97	\$14.39	\$14.82	\$15.26
Truck Driver Heavy	\$11.27	\$11.61	\$11.96	\$12.32	\$12.69
Truck Driver Heavy (Furniture)	\$11.27	\$11.61	\$11.96	\$12.32	\$12.69
Truck Driver Heavy (Tractor Trailer)	\$12.21	\$12.58	\$12.96	\$13.35	\$13.75
Truck Driver Medium	\$10.79	\$11.11	\$11.44	\$11.78	\$12.13
Truck Driver Medium (Mail)	\$11.40	\$11.74	\$12.09	\$12.45	\$12.82
Vehicle Controller	\$11.27	\$11.61	\$11.96	\$12.32	\$12.69
<b>Administrative Division</b>					
Correspondence Management Clerk	\$10.65	\$10.97	\$11.30	\$11.64	\$11.99
Engineering Drawing Files Library Clerk	\$10.65	\$10.97	\$11.30	\$11.64	\$11.99
Human Resources Services Support Clerk	\$10.65	\$10.97	\$11.30	\$11.64	\$11.99
Library Assistant Public Services	\$10.74	\$11.06	\$11.39	\$11.73	\$12.08
Library Assistant Technical Services	\$10.74	\$11.06	\$11.39	\$11.73	\$12.08
Procurement Clerk	\$10.74	\$11.06	\$11.39	\$11.73	\$12.08
Program/Projects Support Specialist	\$10.65	\$10.97	\$11.30	\$11.64	\$11.99
Travel Processing Clerk	\$10.65	\$10.97	\$11.30	\$11.64	\$11.99
Voucher Clerk	\$10.59	\$10.91	\$11.24	\$11.58	\$11.93
Relief	\$10.33	\$10.64	\$10.96	\$11.29	\$11.63
Leads (additional)	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50

*Larkey*  
*New*

COLLECTIVE BARGAINING AGREEMENT  
BETWEEN  
LB&B ASSOCIATES INC.  
(LB&B)  
AND  
DISTRICT LODGE NO. 74  
OF THE  
INTERNATIONAL ASSOCIATION OF MACHINISTS  
AND AEROSPACE WORKERS

EFFECTIVE  
MARCH 1, 2001 TO FEBRUARY 28, 2004

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#### PREAMBLE

This Agreement is made and entered into as of the 1<sup>st</sup> day of March, 2001, by and between LB&B ASSOCIATES INC. (LB&B), its successors and assigns, hereinafter referred to as the "Company" or "Employer", and DISTRICT LODGE 74, INTERNATIONAL ASSOCIATION OF MACHINISTS AND AEROSPACE WORKERS, AFL-CIO, its successors and assigns, hereinafter referred to as the "Union".

#### WITNESSETH

It is the intent and purpose of the parties to this Agreement to promote and improve all industrial and economic relations between the Company and the employees covered by this Agreement, as set forth in the Agreement covering rates of pay, hours of work and conditions of employment to be observed.

#### ARTICLE I: RECOGNITION

**Section 1.** The Company recognized District Lodge 74, International Association of Machinists and Aerospace Workers, AFL-CIO, hereinafter collectively referred to as the "Union", its successors and assigns, as the sole and exclusive collective bargaining representative for all employees covered by this Agreement as certified by the National Labor Relations board in Case No. 5-RCA-8670.

**Section 2.** This Agreement shall cover strictly the LaRC Steam Plant, or any existing plant, provided the work is previously performed by employees in the Bargaining Unit. The Union agrees to hold the Company harmless in the event of a jurisdictional dispute between any two or more unions in regard to this Section.

#### ARTICLE II: EMPLOYEE CONDUCT/ PROGRESSIVE DISCIPLINE

**Section 1 - Reasons for Discipline:** The Company may discipline including discharge for just cause, including failure of the employee to observe the rules and regulations of the Company or to perform quality work.

**Section 2 - Progressive Discipline:** The Company will utilize the progressive discipline procedure outlined in the Company Policy when it finds it appropriate to discipline an employee. Notwithstanding the fact that the Company prefers to utilize progressive discipline, it reserves the right to impose discipline (including suspension, probation or discharge even for the first offense) if in its reasonable judgment the severity of the offense warrants more severe discipline.

**Section 3 - Progressive Discipline Procedure:** For violation of the Company rules or regulations or for failure to perform quality work the Company may resort to the following procedure:

First Violation: Oral warning.

Second Violation: Supervisor prepares a report citing infraction and employee receives copy with original going into Employee personnel file.

Third Violation: If an employee receives a combination of two (2) offenses in twenty-four (24) months or less he is subject up to and including discharge and not eligible for rehire. Any incident of discipline that occurred more than twenty-four (24) months before the violation in question will not be considered in the progressive discipline process.

**Section 4 - Rules and Regulations:** The Company shall provide each employee and the Union a copy of all rules and regulations. Any amendments or changes to the rules and regulations will be distributed to the employees and the Union five (5) days in advance of their implementation.

#### **ARTICLE III: NON-DISCRIMINATION**

**Section 1 - No Discrimination:** There shall be no discrimination against any employee because of race, religion, national origin, sex, age, veterans status, handicap or Union membership by either the Company or the Union. The Company and the Union agree to comply with all laws relating to the non-discrimination of and the accommodation of the disabled and this Agreement shall be so interpreted.

**Section 2 - Sexual Harassment:** Any employee engaging in sexual harassment, use of inappropriate language or engaging in discriminatory conduct may be subject to immediate discharge. This is to include, but not limited to, displaying any inappropriate pictures, photos and/or comments in the work place.

**Section 3 - Pronouns:** Wherever the pronouns he, him, or his appear in this Agreement it is agreed that any such reference shall have equal application to employees irrespective of sex and in no way represents sexual discrimination.

#### **ARTICLE IV - MANAGEMENT RIGHTS**

**Section 1.** The management of the project and the direction of the work force, including the right to plan, direct and control its operation; to determine the means, methods, processes, materials, and schedules of operations; to determine the location of its business; the right to contract and subcontract for materials, supplies, services and equipment; to determine the continuance of its operation; or operating departments; to establish and require employees to observe its rules and regulations; to hire, lay off or relieve employees from duties; and to suspend, demote, discipline and discharge employees for just cause, are the rights solely of the Employer.

The foregoing enumeration of Employer's rights shall not be deemed to exclude other rights of the Employer not specifically set forth. The Employer, therefore, retains all rights not otherwise specifically limited by this Agreement.

**Section 2.** The Company agrees not to subcontract Bargaining Unit work that will directly cause the termination of Bargaining Unit employees unless required to do so by its customer. The Company agrees that Union has the right to represent the employee on all matters concerning conditions of work, wages and other applicable matters as mentioned in the Agreement.

**Section 3. Drug Testing.** The Company shall have the right to establish rules, procedures and regulations, including but not limited to, establishing a drug free work place and work force. The Company may also implement a program whereby employees would be tested for drugs (including alcohol) and the failure of the employee to take the test shall be grounds for discharge.

#### **ARTICLE V: DUES CHECK-OFF**

**Section 1.** The Company agrees, subject to the provision hereof, to deduct Union dues initiation fees and/or other deductions from the wages of the employees so authorizing the same in writing.

**Section 2.** The Union shall send a copy to the Company of the writing of those employees who have made such assignments, together with a statement of the initiation fees, dues and other deductions to be deducted from the pay of such member and the company agrees to deduct in the amount so certified in respect to each such member from the first pay check of each month of such member following the receipt by the Company of such certification or statement monthly and shall make such remittance to the Union in one lump sum within ten (10) days after said deduction is made.

**Section 3.** The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs, and/or other forms of liability and expenses that shall arise out of or because of action taken by the Company for the purpose of complying with any provisions of this Article or in reliance upon any list, notice or assignment furnished by the Union under any such provisions.



**Section 4.** The Union agrees to furnish the Company a copy of the authorization duly signed by each employee authorizing the deduction and properly witnessed. The check-off authorization shall read as follows:

**DUES CHECK-OFF**

I hereby voluntarily assign the District Lodge 74, International Association of Machinists and Aerospace Workers, or in lieu thereof, a subordinate Local Lodge designated by District Lodge 74, from any wages earned, or to be earned by me, initiation fees and the amount of my regular monthly membership dues in said Union.

I authorize and direct my employer to deduct said monthly membership dues from my pay each month, and to remit the same to the order of the officer or official designated by the Union, said authorization and direction to be subject to all the terms and conditions contained in the Collective Bargaining Agreement in existence between my employer and the Union.

This check-off authorization shall remain in effect until revoked by me and shall be irrevocable for a period of one (1) year from the date of execution of such authorization or until the termination of this Agreement between my employer and the Union.

This authorization shall be automatically renewed and irrevocable for one successive period of one (1) year, unless written notice of cancellation is given by me to the Company and the Union, said notice to be forwarded by registered or certified U.S. Mail, not more than seventy-five (75) days and not less than sixty (60) days prior to the expiration of each term of one (1) year, or prior to the termination of the Collective Bargaining Agreement between my employer and the Union, whichever occurs sooner.

This authorization is voluntarily made in order to pay my fair share of the Union's cost of representing me for the purpose of Collective Bargaining and this authorization is not conditioned on my present or future membership in the Union.

**ARTICLE VI: HOURS OF WORK**

**Section 1.** Except as otherwise provided for in this Agreement, the normal work day shall consist of eight (8) hours per day and the normal work week shall consist of forty (40) hours of work per week, Monday through Friday. This provision shall not be construed as guaranteeing any employee a specific number of hours of work per day or per week.

**Section 2.** Employees assigned to shift work shall be permitted to eat while in a duty status. Should employees work through the normal lunch period due to work requirements, lunch shall be taken at the first available opportunity (half hour unpaid). Should the Company (Supervisor) require employees to work through the normal lunch period, the employees may be excused at the end of this shift early.

**Section 3.** The hours of work for employees in the Steam Plant assigned solely to the First shift shall normally be 7:00am to 3:30pm with a thirty (30) minute non-paid lunch period. Employees who are required to work while eating shall have an eight (8) hour shift.

**Section 4.** For employees assigned to shift work in the Steam Plant the schedule shall normally be as follows:

(a) First shift	7:00 a.m. to 3:00 p.m.
(b) Second shift	3:00 p.m. to 11:00 p.m.
(c) Third shift	11:00 p.m. to 7:00 a.m.
(d) Swing shift	3:00 p.m. to 11:00 p.m. 11:00 p.m. to 7:00 a.m. 7:00 a.m. to 3:00 p.m.

Each four (4) weeks employees in the Steam Plant assigned to shift work will be required to rotate.

**Section 5.** It is recognized and agreed that the Company may assign employees to work overtime. The Company shall endeavor to give affected employees as much advance notice as possible of the overtime assignments. Such assignments are to be made in a fair and equitable manner, based upon the employee's classification. Nothing contained herein shall preclude the right of the Company to require a shift worker to work overtime when his relief does not show up. The Company agrees to keep records of all overtime assignments and to make such Records available to the Union upon request. It is understood that the Company has the right to manage its work force and individual schedules to minimize overtime.

**Section 6.** Overtime paid at one and one-half (1.5) times the regular straight-time hourly rate shall be paid for all hours worked by an employee in excess of forty (40) hours per week. Overtime work performed on the employee's regularly scheduled sixth or seventh day shall be paid for at the rate of one and one-half (1.5) times the regular straight-time hourly rate. Holiday time shall be considered time worked for the purpose of determining overtime.

**Section 7.** There shall be no duplication or pyramiding of overtime or premium pay under the provisions of this Agreement; any such hours compensable under two or more provisions of this Agreement shall be paid at higher premium rate of the two.

**Section 8.** In the event it is necessary to call out an employee to work, the Employer agrees that such called out employee shall receive a minimum of four (4) hours of pay at one and one-half (1.5) times the regular straight-time hourly rate. This callout pay will not be compounded by the callout and then the employee working his regular shift. For example, an employee called in to work for two (2) hours prior to the start of his regular shift will receive two hours at one and one half (1.5) times the regular straight time hourly rate, and then the regular straight time hourly rate for the regular shift or any portion thereof. In addition, any employee called back to work after his regular shift hours shall be promptly excused upon completion of the job, which he was called in to perform.

**Section 9.** In the event a permanent employee reports for work at his scheduled starting time and no work is available, the employee shall be entitled to receive four (4) hours show up time pay, to be paid at the appropriate hourly rate of pay.

**Section 10.** In the event Johnson Controls Inc. mandates a reduced workload or work force then employees not scheduled to work will not be paid for such days.

**Section 11.** The Company may request an employee or the employee may request the Company that he be allowed to work more than eight (8) hours in a day without overtime compensation. In lieu of overtime compensation pursuant to this Article VI, Section 6, the employee will be given an equal amount of time off in the pay period. (For example, if an employee works ten (10) hours on Monday, he may work six (6) hours on Thursday.) Agreeing to the requests hereunder is understood to be voluntary on the employee's part and the Company's part.

#### **ARTICLE VII: SENIORITY**

**Section 1.** Seniority shall be defined as the length of continuous service, whether employed by the Company or its predecessor, from the employee's latest date of hire, and shall be recognized on a Bargaining Unit wide basis.

**Section 2.** The Company shall furnish the Union each six (6) months with an accurate seniority list of all employees in the Bargaining Unit. Such list is to include the name, classification, latest date of hire, wage rate, and home address of record of each employee.

**Section 3.** All employees shall be considered probationary employees for the first sixty (60) working days of permanent employment and shall not, during such period, be entitled to any benefits of this Agreement, except paid holiday. Any decision of the Company to terminate or otherwise discipline a probationary employee shall be final and not subject to the Grievance and Arbitration provisions of this Agreement. Upon satisfactory completion of the probationary period, the employee shall become a permanent employee with seniority dating from the date of permanent hire. Relief employees will receive credit for all actual hours worked for the Company at the time the employee is permanently hired. This credit will not apply to leave accrual or any other financial benefit.

**Section 4.** Classification seniority shall mean the length of accumulated service within a classification.

**Section 5.** In effecting layoffs and recalls, classification seniority shall control where the relative skill and ability of the employees given the job requirements are the same or relatively equal.

**Section 6.** Seniority shall be canceled and the employee shall be considered terminated upon the happening of any of the following events:

- An employee quits;
- An employee is discharged;
- An employee fails to return to work within three (3) days of notice of recall given by the Company by registered or certified mail;
- An employee is absent for three (3) days without previously notifying the Company, except in cases of extenuating circumstances;

- An employee overstays a leave of absence without notifying the Company, except in cases of extenuating circumstances;
- An employee engaged in other employment during a leave of absence without obtaining prior permission of the Company;
- An employee gives false reasons for obtaining a leave of absence;
- Settlement has been made for total disability;
- An employee has retired;
- An employee has been in layoff status or is absent because of sickness or injury or similar cause for more than twelve (12) months.

**Section 7.** The seniority of employees promoted or assigned to jobs outside of the Bargaining Unit shall be frozen at the level obtained at the time of such transfer or promotion. In the event such employee returns to the Bargaining Unit within one (1) year, he shall be entitled to whatever rights and privileges his accumulated seniority as of the time of promotion or transfer out of the Bargaining Unit would entitle him, without prejudice.

**Section 8.** It is agreed that each employee shall be credited by classification seniority for the period he has been working that classification with former contractors at NASA Langley. All employees entering a different or new classification after December 1, 1999 shall have their classification seniority started on the date of entry into such classification.

**Section 9.** The Union expressly recognizes the need for flexibility in the work force and agrees that an employee in one classification shall not be restricted from doing temporarily the work normally done by an employee in another classification. However, all such assignments shall be made in a fair and equitable manner. In the event an employee temporarily works in a classification for which the normal rate of pay is higher than the rate of pay received by the employee in his normal classification, he shall receive the higher rate of pay. In the event an employee is assigned work temporarily in a classification lower than his normal classification, he shall receive his regular rate of pay.

**Section 10.** In making assignments to a permanent job vacancy or a new job, the Company shall give first preference to any currently qualified employees who apply for the position. A notice of any such vacancy or new job shall be posted on the bulletin board for a period of three (3) days (during such time vacancy shall be considered temporary). The Company, at the end of such time period shall consider those employees who have submitted a bid notice (the form and content of which the parties shall mutually agree upon) and consistent with the overall requirements of the Company as determined by the Company, shall select and assign the most qualified senior employee if in its opinion the applicant is also qualified and suitable for the job.

**Section 11.** In the event the Company believes no properly suitable or qualified employee signs such a bid notice for a job opening, it is agreed and understood that the Company may hire a new employee for such job. Any employee who is awarded a job opening is expected to be qualified to perform the tasks of such job following initial break-in instructions and guidance from supervision.

**Section 12.** Employees assigned or transferred pursuant to this Article shall be given thirty (30) days in which to prove they are capable of performing the duties of the new job in a satisfactory manner. In the event such employees do not satisfactorily meet the requirements of the new job, they shall be returned to their prior position or its equivalent without prejudice. Any employee, upon request, shall be advised in the presence of his Union representative of the specific reasons for not meeting the requirements of the job and any disputes arising therefrom shall be subject to the grievance procedure. Employees who are accepted on any bid job and are returned to their former job for failing to meet job requirements shall not be permitted to bid on any job for a period of six (6) months.

**Section 13.** When a reduction of working forces becomes necessary in the Company's judgment, employees shall be retained by the Company in accordance with the principles of Section 5, according to the number of employees the Company determines is necessary within each classification for the reduced operations contemplated by the Company. Recall of employees shall be accomplished by the same procedure in reverse.

**Section 14.** Any employee within a particular job classification who is affected by a layoff within his classification may bump, based only on Bargaining Unit seniority, any less senior employee in any like or lower rated classification, but only if qualified to perform the work within such classification.

#### **ARTICLE VIII: GRIEVANCE AND ARBITRATION**

**Section 1.** It is the intent of this Article to establish means for prompt adjustment of working problems and personal grievances at the job level by a conference between the immediate Foreman and the employee involved, provided a Union representative has been given an opportunity to be present. If not resolved in this informal level, a formal grievance shall be filed and processed in accordance with the steps and time limits and mutually agreed upon extensions specified below. For the purpose of this Article, a formal grievance under this Agreement is defined as a written statement by the Union, Company, an individual employee or group of employees (hereinafter called "Grievance") claiming a violation of the terms of this written Agreement. Such grievance, to be valid, must specify the Article and Section of the Agreement believed to be violated.

**Section 2.** Except for payroll adjustments, no grievance shall be filed or processed based on facts or events or omissions within the employee's knowledge, which have occurred more than ten (10) working days before such grievance is filed. Both parties agree to exert an earnest effort to settle such grievances promptly through the following steps:

**STEP 1.** The employee involved shall first confer with the Project Foreman or his designated representative in order to amicably settle the matter, provided a Union representative has been given an opportunity to be present. The Foreman must give his decision within five (5) working days.

**STEP 2.** Should the grievance not be satisfactorily settled by the discussion outlined in Step 1 above, the Union shall within five (5) working days submit the grievance in writing to the Project Manager or his representative. Within ten (10) working days after receipt of the written grievance, the Project Manager or his representative shall either fully satisfy the grievance or meet with the Shop Steward, Business Representative or International Representative of the Union and employee, if applicable. The Project Manager, or his representative will render a written decision within five (5) workdays after such contract.

**STEP 3.** If the parties are still unable to settle the grievance, then either party may within thirty (30) calendar days after a written decision has been given request the Federal Mediation and Conciliation Service to submit a list of five (5) impartial arbitrators from which the Company and the Union shall choose one to decide the controversy by the Company first striking two names, and then the Union striking two (2) names, and the remaining name shall be chosen arbitrator. The arbitrator shall not have the authority to alter, amend or change the terms of provisions of this Agreement, and his decision shall be limited to the particular grievance in question. The arbitrator's decision shall be rendered in thirty (30) days and shall be final and binding on the parties.

**Section 3.** The Union and the Company shall equally share the fee of the impartial arbitrator, including any mutually agreed upon services relating to the arbitration proceedings. Either party shall be permitted to call employee witnesses at each and every step of the grievance procedure and no employee whose participation is reasonably necessary as a Union Representative or witness shall suffer any loss of earning as a result of so serving. The Company on demand will produce production, payroll, or other records for the purpose of substantiating the contentions or claims of the parties well in advance of the formal proceeding of the grievance procedure.

**Section 4.** All time limits prescribed herein may be extended by mutual agreement of the parties. Failure of the Company to respond within the time limits shall constitute a basis for escalating the grievance to the next step. Failure of the Union or employees to process the grievance to the next step within the time limits shall render the grievance invalid.

**Section 5.** In any case involving discharge or discipline imposed by the Company, back wages, if any are awarded, shall be limited to the amount of wages that employee would otherwise have earned less any unemployment compensation or substitute earnings during the period of discharge or suspension.

**Section 6.** Failure of the Company to implement the award of the arbitrator within five (5) working days (if it is reasonably possible for the Company to implement after receipt) shall be cause for a recognized work stoppage. The Company may institute a lockout during any such work stoppage.

**Section 7.** The Union agrees it will not involve NASA or Johnson Controls World Services, Inc. with respect to any provisions of this collective bargaining agreement and future negotiations related thereto.

#### **ARTICLE IX: LEAVES OF ABSENCE**

**Section 1.** When it is necessary for employees to leave their duty for the purpose of attending, to their personal business, and provided reasonable notice has been given the Company, employees will be granted leaves of absence without pay, provided the absences do not unduly interfere with the efficient operation of the Company. Such leaves shall not exceed three (3) months but upon written request with Company approval may be extended for additional time. The Company shall be under no obligation to an employee on leave of absence, except to return to work in accordance with the employee's seniority. It is mutually agreed and understood that leaves will not be granted for the purpose of seeking different employment.

**Section 2.** An employee who is summoned for jury duty, and who actually responds to said summons, will be paid the difference between the amount of money he received for jury duty pay and what he actually would have earned had he worked for the Company during the time he was absent due to jury duty, computed at the employee's regular straight time rate for either an eight (8) hour day or five days per week. Jury duty differential pay shall not exceed fifteen (15) days. It is understood and agreed that the Company has the right to require satisfactory proof that an employee actually served on the jury panel and the number of days served. Employees on the first and second shifts will not be required to report for work on the day they are required to serve as a juror or appear as a witness. Third shift employees will not be required to report for work on any night prior to reporting for jury duty or appearing as a witness the following day where the workweek starts on Sunday night and on any night following where the workweek starts on Monday morning.

**Section 3.** In case of the death of a member of the immediate family of an employee, the employee shall be granted a maximum of three (3) consecutive workdays off with straight-time pay to attend the funeral and to tend to administrative details. Employees that must travel out of state in order to attend the funeral may have up to two (2) days in addition to the three (3) consecutive workdays off for traveling. It is understood that an employee must attend the funeral in order to qualify for funeral leave with pay. The Company may require verification. Members of the immediate family shall be the spouse, children, step-children, parents, brothers, sisters, parents-in-law, and grandparents.

#### **Section 4.**

- The Company agrees to observe all provisions of present law or laws hereafter enacted relating to its obligations to those of its employees who may hereafter leave the service of the Company to enter the Armed Services of the United States.
- Annual military leave, without pay, will be granted employees not to exceed eighteen (18) days.

**Section 5.** When it is necessary for employees to leave their duty for the purpose of attending to Union business other than organizational activities, and provided that reasonable notice has been given to the Company, employees will be granted leaves of absence without pay. Such leaves shall not exceed thirty (30) days, but may be extended



for additional time upon written request to the Company, if such further leave is feasible. In no event will Union business leaves be granted to more than one (1) employee during any one-month. The Company shall be under no obligation to an employee on Union business leave except to return to work in accordance with the employee's seniority. All such leave requests are further subject to the Company's ability to adequately replace such employee on a temporary basis.

**Section 6.** An employee granted unpaid leave of absence shall accrue seniority while absent on such leave. All benefits (sick leave, vacation, paid insurance and hospitalization, etc.) shall be suspended during the period of unpaid leave of absence, unless the employee makes arrangements with the Company to keep these benefits in force at the employee's expense.

**Section 7.** Where the provisions of this Article are in conflict with the Family Medical Leave Act (FMLA), the provisions of the FMLA will control, but shall not be interpreted to be in addition to other time that might be available under this Article. For example, an employee who is on medical leave pursuant to the FMLA for twelve (12) weeks may extend up to an additional twelve (12) weeks pursuant to Section 1 in accordance with the requirements of Section 1.

#### **ARTICLE X: BULLETIN BOARD**

The Company agrees to allow the Union to share the Company bulletin board located in the work area where employees normally check in and out for the use of the Union for posting of matters relating to Union meetings and other Union matters of a non-controversial, non-political nature only. All such notices as posted by the Union shall be signed by an authorized Union representative.

#### **ARTICLE XI: SAFETY, HEALTH AND SANITATION**

**Section 1.** Any protective devices or other safety equipment necessary to protect employees from injury will be provided by the Company without cost and shall be worn and/or utilized by the employees in the performance of their job tasks. In this connection, the Company will welcome suggestions from employees, or the Union, regarding the need for additional safety equipment.

**Section 2.** In the event an employee suffers an injury on the job in the course of his employment and is required to leave work to go to the doctor, he shall be paid for the balance of his shift on the day such injury occurs. If the employee is able to return to work after visiting the doctor, he shall do so and shall be compensated for the time spent at the doctor. Employees involved in accidents will be drug/alcohol tested.

**Section 3.** The Company and the Union agree and recognize that employees may from time to time have meritorious suggestions for improvement of safety conditions in the Company's operations. Therefore, the Company and the Union encourage employees to reduce any such safety suggestion in writing and submit it to the Company for



consideration. It is further recognized and agreed that the Company may from time to time schedule safety meetings and require attendance by employees. Attendance of employees at any such safety meeting which is scheduled with required attendance shall be compensated for the time actually spent incidental to such safety meeting at the employee's applicable rate of pay.

**ARTICLE XII: HOLIDAYS**

**Section 1.** The following holidays or day(s) observed as such shall be paid holidays in accordance with Company policy.

New Year's Day	Thanksgiving Day
President's Day	Labor Day
Memorial Day	Christmas Day
Independence Day	Columbus Day
Veteran's Day	Martin Luther King's Birthday

It is agreed that the phrase "or day(s) observed as such" means the day(s) on which the Government substantially reduces the normal activities at NASA Langley Research Center, the Center is in a "holiday or weekend mode" and the Government employees at NASA Langley Research Center celebrate the holiday.

**Section 2.** An employee who is on the active payroll of the Company on a holiday recognized herein and who works his assigned scheduled during that workweek, except for being absent without a legitimate reason, shall receive holiday pay at his straight-time pay rate. If an employee is scheduled or required to work on a holiday, but fails to do so, he will receive no holiday pay unless he has legitimate reason for not working.

**Section 3.** An employee who works on one of the above listed holidays shall be paid at one and one-half (1.5) times his straight-time base pay for all hours worked on that holiday, in addition to any holiday pay to which he may be entitled.

**ARTICLE XIII: ANNUAL LEAVE**

**Section 1.**

- (a) Employees with up to five (5) years of service shall earn ten (10) days of Annual Leave per year.
- (b) Employees with five (5) years, but less than fifteen (15) years shall earn fifteen (15) days of Annual Leave per year.
- (c) Employees with more than fifteen (15) years shall earn twenty (20) days of Annual Leave per year.

(d) For the purposes of computing Annual Leave, paid absences shall be considered as hours worked. Paid absences to be defined as Annual Leave, sick leave and holidays. During periods of short or long-term disabilities or Workmen's Compensation, no accrual of Annual Leave will take place.

(e) Employees will not be eligible to use vacation until after their first anniversary date of employment with the Company. Every anniversary date thereafter employees will be credited with their earned vacation.

(f) All credited vacation must be scheduled and taken within the twelve (12) consecutive months following the date the vacation is earned, and each succeeding anniversary date thereafter.

(g) Incumbent employees who have an annual leave benefit in excess of the above schedule will be allowed to retain that benefit.

**Section 2.** An employee's request to take annual leave shall be granted if the employee has enough accrued leave and he has given his Supervisor two (2) weeks notice and the employee's absence would not unduly hinder the efficiency of the Company. Requests for Annual Leave for emergency reasons will be considered on an individual basis.

**Section 3.** Should a holiday fall during the employee's vacation, he shall be entitled to an additional day of vacation, which shall be the next scheduled work day, which will be the employee's holiday.

**Section 4.** The Company will keep accurate annual leave records of each employee in the Unit. Upon request such records will be made available to the employee or the Union.

**Section 5.** Employees who have accrued annual leave on the books as of March 1, 2001 must use such annual leave in the twenty four (24) months after the effective date of this Agreement. All annual leave earned after March 1, 2001 is subject to part "(f)" of Section 1.

#### **ARTICLE XIV: SICK LEAVE**

##### **Section 1.**

- (a) Employees covered by this Agreement shall be given forty (40) hours sick leave credit each year based upon an accrual of 1.666 hours per semi-monthly pay period to a maximum accrual of two hundred (200) hours. An employee leaving the services of the Company will not be paid for any sick leave, which he has accumulated.
- (b) For the purposes of computing sick leave, paid absences shall be considered as hours worked. Paid absences to be defined as annual leave, sick leave, and holidays. During periods of short or long-term disabilities or Workmen's Compensation, no accrual of sick leave will take place.
- (c) Sick leave may be used for the employee's illness or the employee's doctor appointment.

(d) Sick leave may not be taken or used once the employee qualifies for short or long term disability payments.

**Section 2.** The Company will keep sick leave records for each employee covered by this Agreement. Such records will be made available to each individual employee and for the Union upon request.

**Section 3.** Except as hereinafter provided, employees shall not be required to furnish a medical certificate to substantiate requests for sick leave, excepting when the illness exceeds three (3) consecutive scheduled workdays. In the case of a communicable disease, and in the interest of protecting other employees, the Company may require medical certification of fitness to return to work. In the event of a period of disability, for any reason (injury or illness), a medical certificate, stating employee is fit for duty, will be required prior to returning to work.

#### **ARTICLE XV: NO STRIKE - NO LOCKOUT**

The Union agrees that it will not (during the term of this Agreement) cause, permit, threaten or participate in any strike, including the refusal to cross any other labor organization's picket lines, walkout, slow-down, boycott, picketing, work stoppage, refusal to work, or any other interface with the operation, management or functions of the Employer. The Employer agrees it will not lock out employees during the term of this Agreement.

Any employee taking part in or assisting or support such picketing or interruption of such operations shall be subject to immediate discharge.

The Union shall not question the unqualified right of the Company to discipline or discharge employees engaging in, participating in or encouraging such action. It is understood that such action on the part of the Company shall be final upon the Union and its members, and shall in no case be construed as a violation by the Company of any provision of this Contract. Only the issue of fact as to whether or not any particular employee has engaged in, participated in or encouraged any such violation, is subject to the grievance procedure and arbitration.

The Company will not be required to deal with representatives of the Union during any period of picketing or interruption of operations by the Union or employees.

#### **ARTICLE XVI: UNION REPRESENTATION**

**Section 1.** The Company will recognize one (1) Shop Steward and one (1) alternate designated by the Union to the Company in writing. The Shop Steward shall be allowed reasonable time during working hours to investigate complaints, process grievances and meetings with the Company, in connection with his collective bargaining responsibility. The alternate Shop Steward shall assume such duties when the regular Shop Steward is absent.

**Section 2.** The Company agrees that unit employees who file a complaint or grievance with the Company will not be questioned, in respect thereto, without the presence of a recognized Steward.

**Section 3.** The Shop Stewards shall be allowed reasonable time, not to exceed three (3) hours per week during working hours to investigate complaints, process grievances and hold meetings with the Company, in connection with his collective bargaining responsibility so long as the Shop Stewards shall under no circumstances cause any cessation of work or in any way interfere with the operation of the Company. In carrying out the duties of a Shop Steward it is understood the Shop Steward's duties shall not interfere with his being a productive, contributing and working employee of the Company subject to the normal and usual rules and regulations that apply to all other employees. Shop Stewards desiring to leave their work place must first clear the matter with their immediate supervisor.

**Section 4.** In the event of a layoff, the Shop Stewards shall be granted preferential seniority and will be retained without regard to seniority, as long as the Company has work, which they are qualified to perform. In the event a recognized Union representative is laid off or terminated (for lack of work he is qualified to perform) he shall be the first recalled when work he is qualified to perform becomes available.

**Section 5.** Nothing in this Article shall be construed as the right to deny the International Representative or Business Agent the privilege of processing a grievance on behalf of a unit employee, or to participate in a grievance meeting conducted in accordance with the Grievance Procedure. It is mutually understood that such Union representative must be able to conduct himself in a professional manner and maintain channels of communications. If the Company believes in good faith that such representative does not meet these requirements it shall so notify and meet with the Directing Business Representative to resolve the situation. If such a meeting fails to resolve the matter within ten (10) days, the Company shall meet with a General Vice President. If the matter is not resolved with the General Vice President in ten (10) days then the Company shall not be obligated to deal with such Union representative. The Union may grieve whether the Company's determination was made in good faith.

**Section 6.** The Union shall be free to withdraw a grievance at any step of the Grievance Procedure without prejudice.

**Section 7.** Employees in the Unit will not be discharged, without first being given the opportunity for a hearing with the Project Manager. Such employee shall be afforded the right to be accompanied and represented by the Union during said hearing.

**Section 8.** Upon prior notice to the Project Manager or his designated representative, authorized agents of the Union, who are not employees, may, in the sole discretion of the Company if the Union appeals in Section 5 of this Article have been exhausted, have access to the Employer's establishment during working hours for the purpose of adjusting disputes, investigating working conditions and ascertaining that the Agreement is being adhered to. Such notice will include name(s) and title(s) and specific purpose of visit. It is expressly agreed that the employer is hereby released from any and all liability for any

injury to such agent, occurring while he is on the premises of the employer or at the Government site. It is further understood that the provisions of Section 3 hereof shall also govern the activities of these Union representatives at the work site.

#### **ARTICLE XVII: UNIT WORK PROTECTION**

It is recognized by the parties that business reduction situations may occur necessitating a reduction in force. It is not the intent herein to recall employees for temporary increases in workload, which will not support full-time employment. Should such situations arise the Company will utilize existing personnel to meet peak load conditions. However, it is agreed that where workload commitments will support recall of employees on layoff, such action will be taken.

#### **ARTICLE XVIII: WAGES AND CLASSIFICATIONS**

**Section 1.** The rates of pay shall be those specified in Appendix "A" which is attached hereto and made a part hereof.

**Section 2.** The manning needs of any classification covered by this Agreement shall be determined solely by the Company. This Agreement will not constitute a guarantee of any particular job or jobs within any particular classification, nor shall it constitute a guarantee of any particular duties or deleting duties from a classification. The principal of equal pay for substantially equal work shall supply, as it shall also apply to all employees within a classification.

**Section 3.** The Company, at its sole option, may implement new classifications and job descriptions for new work to be performed. The Company and the Union will negotiate on the rate for the new job. If agreement cannot be reached, the Company may implement the rate of pay. This Section does not apply to classifications that exist as of the effective date of this Agreement. Current classifications as of the effective date of the Agreement shall not be reclassified in a manner to create new work. This section is intended only for classifications for new work.

#### **ARTICLE XIX: INVALIDITY**

If any Article or Section of this Agreement should be held invalid by operation of law, or by any legal tribunal of competent jurisdiction, or if compliance with or enforcement of any Article of action should be restrained by such tribunal pending a final determination as to its validity, the remainder of this Agreement shall not be affected thereby and shall continue in full force and effect. Upon request of either party, the parties shall negotiate a satisfactory replacement for each invalid provision.

**ARTICLE XX: HEALTH & WELFARE BENEFITS**

**Section 1.** For full-time employees who so elect, the Company shall make the contributions set forth in Section 2 hereof in order to provide the following benefits:

- (a) Life insurance in the amount of \$50,000.00 per employee; (after age 65 there are certain benefit reductions)
- (b) Accidental death & dismemberment policy in the amount of \$50,000.00 (after age 65 there are certain benefit reductions)
- (c) Union Delta Dental Plan A22; (25% deductible) and
- (d) Hospitalization and medical insurance

The exact terms of the coverage's are those provided pursuant to and as a part of insurance policies. Should the cost of such benefits on a weighted mean average, exceed the amount contributed by the Company, such excess cost shall be paid by the employee through payroll deductions.

**Section 2.** The Company shall pay the following amounts per employee per month to provide the coverage's set forth in Section 1 hereof:

- (a) \$366.00
- (b) The cost per employee for the dental coverage will be calculated monthly by the Company on a composite basis.
- (c) A \$25.00 pay roll deduction from each participating employee per month will be made.

**Section 3**

(a) The Company will provide short term disability insurance as follows:

60% of basic weekly pay to a maximum of \$500 per week.

Coverage will be from the 8<sup>th</sup> day of total disability and will extend through the 90<sup>th</sup> day of such disability.

(b) The Company will provide long term disability insurance as follows:

60% of basic monthly pay to a maximum of \$3,000 per month and in accordance with the insurance company schedule provided.

Coverage will be from the 91<sup>st</sup> day of total disability through the date you cease to be totally disabled or in accordance with the insurance company schedule in reference to age.

(c) It is recognized by the parties that cost of insurance premiums are subject to increase or decrease based on the experience rating of the carrier. In the event of a change in the premium cost of short and long term disability group insurance

coverage the Employer will adjust the amount paid accordingly to insure that the agreed to coverage will be provided for the life of the Agreement at no cost to the employee.

**Section 4** It is understood that the Company's contracts with insurance carriers provide the benefits contemplated under this Article. Interpretation and application of such contracts shall ultimately rest with the insurance carrier and any dispute there under shall be between the employee and the insurance carrier and not subject to the Grievance Procedure of this Agreement. The Company reserves the right to change insurance carriers so long as the primary benefits are essentially the same.

#### **ARTICLE XXI: GENERAL PROVISIONS**

**Section 1.** Employees within the Bargaining Unit shall be assigned and answerable to, the Designated Supervisor, or in lieu thereof, one (1) individual who shall be designated in writing, who shall be responsible for assigning work, approving absences and initiating disciplinary action.

**Section 2.** As long as Johnson Controls Inc. requirements include a provision, which requires employees of the Unit to wear uniforms, the Company will pay the cost of furnishing and laundering a change of uniforms per employee per regular working day. In the event Johnson Controls Inc. requirements in this regard are changed, it is agreed the Company shall have the right to modify the provision of this Section to the extent that Johnson Controls Inc. shall not be liable to the Company, or the Union, for any cost which is not a requirement of the Contract between Johnson Controls Inc. and the Company.

The Company further agrees to make available several sets of rain gear in the form of slickers, hats, and boots for field service trips during foul weather. This equipment will be kept in a designated area and will be checked out individually as needed. The employee will be responsible for this equipment while he has it signed out.

**Section 3.** The Union and the Company recognize the need to be flexible in scheduling the hours of shifts and transfers to different shifts in order to accommodate Johnson Controls Inc. directed work. In the event of changes due to Johnson Controls Inc. direction, the Company will endeavor to give a minimum of 5 days notice so long as the Johnson Controls Inc. direction to the Company is at least 5 days. If the Company gets less than 5 days notice, the Company will give whatever notice it gets.

**Section 4.** The Employer reserves the right to define the content of a job.

**Section 5.** Regular part-time employees (those employees regularly scheduled to perform less than forty (40) hours work per week who are not classified as a utility person) shall be paid pro rata benefits. Part-time employees who are scheduled on an "as needed" basis shall not be paid benefits. "Benefits," as defined for purposes of this proposal, means annual leave pay, holiday pay, sick leave or health and welfare benefits under Article XXI. To be covered by disability insurance, an employee must work an average of thirty (30) hours per week.

**ARTICLE XXII: SUPERSEDING EFFECT OF AGREEMENT**

It is expressly agreed and understood that the wages, working conditions and fringe benefits provided in this Agreement are in lieu of any and all working conditions and fringe benefits of any kind previously provided by the Company or its predecessor for employees within the Bargaining Unit.

**ARTICLE XXIII: DURATION**

**Section 1.** This Agreement shall become effective March 1, 2001, and shall remain in full force and effect until February 28, 2004 and from year to year thereafter unless either party shall, no more than ninety (90) and at least sixty (60) days prior to any anniversary date hereof, notify the other party of a desire to amend or terminate this Agreement. In the event such notice is given, the parties shall communicate not later than fifteen (15) days after receipt of such notice for the purpose of scheduling negotiations of a new Agreement.

**Section 2.** No Agreement, waiver, alteration, understanding, variation or modification of any terms or conditions contained herein shall be made by any employee, or group of employees, with the Company and in no case shall it be binding upon the parties hereto unless such Agreement is made and executed in writing between the parties hereto, and the same has been ratified by the Union.

**Section 3.** The waiver of, or any breach of conditions of this Agreement, by either party, shall not constitute a precedent in the future enforcement of all terms and conditions herein.

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement this 28<sup>th</sup> day of February 2001.

DISTRICT LODGE 74  
INTERNATIONAL ASSOCIATION OF  
MACHINIST AND AeroSpace WORKERS

LB&B ASSOCIATES INC.

  
Homer Tipton  
Assistant Directing Business Representative

  
Lily A. Liang Brandon  
President & CEO

  
Arnold L. Hollis  
Shop Steward

  
Jacob M. Burch  
Labor Relations Administrator



**APPENDIX A**  
**WAGE, SCHEDULE, ENVIRONMENTAL AND DIFFERENTIAL PAY**

**Section 1.** The Company agrees to pay the following hourly rate for the classifications listed below:

CLASSIFICATION	3/1/01	12/1/01	12/1/02	12/1/03
Stationary Steam Engineer	18.09	18.63	19.19	19.86
Equipment Service Mechanic	18.09	18.63	19.19	19.86
Steamfitter	18.09	18.63	19.19	19.86
Water Treatment Analyst	18.09	18.63	19.19	19.86
Senior Plant Technician	18.09	18.63	19.19	19.86
Plant Technician	17.20	17.72	18.25	18.89
Utility Person	7.43	7.65	7.88	8.16

**Section 2.** Shift differential shall be 35 cents per hour for second shift and 45 cents per hour for third shift work.

**Section 3.** When an employee is assigned to work the majority of a regular shift falling on Sunday, the affected employee will be paid 1.25 times the base rate plus applicable shift differential, if any, for all regular hours worked during the shift.

**Section 4.** Employees may be hired at the apprentice rate of \$12.00 per hour for those assigned to positions other than in the steam plant. The steam plant apprentice rate shall be \$17.50 per hour. This rate shall only be applicable until an employee has worked 7080 hours for the Company in the apprentice rate category. (An employee will not get credit for time worked as a utility person.) Any such person in the apprentice rate category who has worked beyond the probationary period as per Article VII, Section 3, and who is on a regular schedule (not on an "as needed" basis), will be entitled to all the same benefits as a full-time or part-time employee, as the case may be.

**Section 5.** There is established a special classification of Utility Person, who shall earn the following benefits and wages, notwithstanding anything to the contrary in this Agreement:

- (a) Benefits: In lieu of all benefits set forth in Article XXI, the Utility Person will receive a payment of \$1.29 per hour worked, which may be applied to the purchase of any benefit under Article XXI (if such benefit is available through the insurance carrier).
- (b) Utility Persons will be entitled to a pro-rated vacation benefit based on the number of hours worked in the prior year (no vacation pay will be earned until the completion of each employment year).
- (c) Utility Persons will not receive holiday pay, sick pay, shift premiums or Saturday or Sunday pay.
- (d) Utility Persons will work regular part-time schedules of 16, 24 or 32 hours per week.

**LETTER OF UNDERSTANDING**

In reference to Article II, Section 4: Rules and Regulations of the Collective Bargaining Agreement between LB&B Associates Inc. and the International Association of Machinists and Aerospace Workers, District Lodge 74, it is understood that LB&B Associates Inc.'s Policies and Procedures Manual is considered competitive and proprietary information. Therefore, in accordance with the practice in effect prior to the Collective Bargaining Agreement effective March 1, 2001, and the document control policy of LB&B Associates Inc., the following provision shall have precedence and primacy over Article II, Section 4 of the Collective Bargaining Agreement between LB&B Associates Inc. and the International Association of Machinists and Aerospace Workers, District Lodge 74:

Employees may view the Policies and Procedures Manual in the presence of the Project Manager during normal working hours.

This letter of understanding and the provision referenced herein is an agreement solely between LB&B Associates Inc. and the International Association of Machinists and Aerospace Workers, District Lodge 74.

IN WITNESS WHEREOF, the parties hereto have executed this Letter of Understanding this 1<sup>st</sup> day of March 2001.

DISTRICT LODGE 74  
INTERNATIONAL ASSOCIATION  
OF MACHINISTS AND  
AeroSpace WORKERS

LB&B ASSOCIATES INC.

  
Homer Tipton, Jr.  
Assistant Directing Business Representative

  
Jakob M. Bulch  
Labor Relations Administrator

COLLECTIVE BARGAINING AGREEMENT  
BETWEEN  
DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC.  
AND  
DISTRICT LODGE 74  
INTERNATIONAL ASSOCIATION OF MACHINISTS  
AND AEROSPACE WORKERS

November 1, 2000 to October 31, 2003

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## PREAMBLE

This Agreement is made and entered into as of the 1st day of November, 2000, by and between DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC., its successors and assigns, hereinafter referred to as the "Company" or "Employer", and DISTRICT LODGE 74, INTERNATIONAL ASSOCIATION OF MACHINISTS AND AEROSPACE WORKERS, AFL-CIO, its successors and assigns, hereinafter referred to as the "Union".

## WITNESSETH:

It is the intent and purpose of the parties to this Agreement to promote and improve all industrial and economic relations between the Company and the employees covered by this Agreement, as set forth in the Agreement covering rates of pay, hours of work and conditions of employment to be observed.

## ARTICLE I RECOGNITION

Section 1. The Company recognizes District Lodge 74, International Association of Machinists and Aerospace Workers, AFL-CIO, hereinafter collectively referred to as the "Union", its successors and assigns, as the sole and exclusive collective bargaining representative for all employees covered by this Agreement as certified by the National Labor Relations board in Case No. 5-RCA-8670.

Section 2. This Agreement shall cover all future shops and/or plants in the immediate Hampton or Newport News area (twenty-five mile radius) which the Company may operate during the term of this Agreement, or any existing plant, provided the work is previously performed by employees in the Bargaining Unit. The Union agrees to hold the Company harmless in the event of a jurisdictional dispute between any two or more unions in regard to this Section.

## ARTICLE II EMPLOYEE CONDUCT POLICY/PROGRESSIVE DISCIPLINE

Section 1. Reasons for Discipline. The Company may discipline including suspension, probation and discharge for just cause, including failure of the employee to observe the rules and regulations of the Company or to perform quality work.

Section 2. Progressive Discipline. Ordinarily the Company will utilize the progressive discipline procedure outlined in Section 3 of this Article when it finds it appropriate to discipline an employee. Notwithstanding the fact that the Company prefers to utilize progressive discipline, it reserves the right to impose discipline (including suspension, probation or discharge even for the first offense) if in its reasonable judgment the severity of the offense warrants more severe discipline.

Section 3. Progressive Discipline Procedure. For violation of the Company rules or regulations or for failure to perform quality work the Company may resort to the following procedure:

- (a) First Violation: Oral warning.
- (b) Second Violation: Supervisor prepares a report citing infraction and employee receives copy with original going into Employee personnel file.
- (c) Third Violation: Suspension of work for up to and including five (5) working days.
- (d) Fourth Violation: If an employee receives a combination of three (3) offenses in eighteen (18) months or less he is subject to up to and including discharge and not eligible for rehire.

Any incident of discipline that occurred more than eighteen (18) months before the violation in question will not be considered in the progressive discipline process.

Section 4. Rules and Regulations: The Company shall provide each employee and the Union a copy of all rules and regulations. Any amendments or changes to the rules and regulations will be distributed to the employees and the Union five (5) days in advance of their implementation. The Union may request within ten (10) days of receipt of any proposed changes that the Company meet and discuss the impact of such rules provided that the promise to meet and confer will not be interpreted as the interference with the Company's right to promulgate reasonable rules and regulations so long as such rules and regulations do not conflict with the express provisions of this contract.

ARTICLE III  
NON-DISCRIMINATION

Section 1. No Discrimination. There shall be no discrimination against any employee because of race, religion, national origin, sex, age, or Union membership by either the Company or the Union. The Company and the Union agree to comply with all laws relating to the non-discrimination of and the accommodation of the disabled and this Agreement shall be so interpreted.

Section 2. Pronouns. Wherever the pronouns he, him, or his appear in this Agreement, it is agreed that any such reference shall have equal application to employees irrespective of sex and in no way represents sexual discrimination.

ARTICLE IV  
MANAGEMENT RIGHTS

Section 1. The management of the project and the direction of the work force, including the right to plan, direct and control its operation; to determine the means, methods, processes, materials, and schedules of operations; to determine the location of its business; the right to contract and subcontract for materials, supplies, services and equipment; to determine the continuance of its operation; or operating departments; to establish and require employees to observe its rules and regulations; to hire, lay off or relieve employees from duties; and to suspend, demote, discipline and discharge employees for just cause, are the rights solely of the Employer.

The foregoing enumeration of Employer's rights shall not be deemed to exclude other rights of the Employer not specifically set forth. The Employer, therefore, retains all rights not otherwise specifically limited by this Agreement.

Section 2. The Company agrees not to subcontract Bargaining Unit work that will directly cause the termination of Bargaining Unit employees unless directed to do so by its customer, the verification of which will be furnished to the Union on request. The Company agrees that Union has the right to represent the employee on all matters concerning conditions of work, wages and other applicable matters as mentioned in the Agreement.

Section 3. Government Directive/Drug Testing. The Company shall have the right to establish rules, procedures and regulations to comply with any government directive, including but not limited to, establishing a drug free work place and work force. The Company may also implement a program whereby employees would be tested for drugs (including alcohol) and the failure of the employee to take the test shall be grounds for discipline.

ARTICLE V  
DUES CHECK-OFF

Section 1. The Company agrees, subject to the provision hereof, to deduct Union dues, initiation fees and/or other deductions from the wages of the employees so authorizing the same in writing.

Section 2. The Union shall send a copy to the Company of the writing of those employees who have made such assignments, together with a statement of the initiation fees, dues and other deductions to be deducted from the pay of such member and the Company agrees to deduct in the amount so certified in respect to each such member from pay check of such member following the receipt by the Company of such certification or statement monthly and shall make such remittance to the Union in one lump sum within ten (10) days after said deduction is made.

Section 3. The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs, and/or other forms of liability and expenses that shall arise out of or because of action taken by the Company for the purpose of complying with any provisions of this Article or in reliance upon any list, notice or assignment furnished by the Union under any such provisions.

Section 4. The Union agrees to furnish the Company a copy of the authorization duly signed by each employee authorizing the deduction and properly witnessed. The check-off authorization shall read as follows:

DUES CHECK-OFF

I hereby voluntarily assign the District Lodge 74, International Association of Machinists and Aerospace Workers, or in lieu thereof, a subordinate Local Lodge designated by District Lodge 74, from any wages earned, or to be earned by me, initiation fees and the amount of my regular monthly membership dues in said Union.

I authorize and direct my employer to deduct said monthly membership dues from my pay each month, and to remit the same to the order of the officer or official designated by the Union, said authorization and direction to be subject to all the terms and conditions contained in the Collective Bargaining Agreement in existence between my employer and the Union.

This check-off authorization shall remain in effect until revoked by me and shall be irrevocable for a period of one (1) year from the date of execution of such authorization or until the termination of this Agreement between my employer and the Union.

This authorization shall be automatically renewed and irrevocable for one successive period of one (1) year, unless written notice of cancellation is given by me to the Company and the Union, said notice to be forwarded by registered or certified U.S. Mail, not more than seventy-five (75) days and not less than sixty (60) days prior to the expiration of each term of one (1) year, or prior to the termination of the Collective Bargaining Agreement between my employer and the Union, whichever occurs sooner.

This authorization is voluntarily made in order to pay my fair share of the Union's cost of representing me for the purpose of Collective Bargaining and this authorization is not conditioned on my present or future membership in the Union.

#### ARTICLE VI HOURS OF WORK

Section 1. Except as otherwise provided for in this Agreement, the normal work day shall consist of eight (8) hours per day and the normal work week shall consist of forty (40) hours of work per week, Monday through Friday. This provision shall not be construed as guaranteeing any employee a specific number of hours of work per day or per week.

Section 2. Employees assigned to shift work shall be permitted to eat while in a duty status. Should employees work through the normal lunch period due to work requirements, lunch shall be taken at the first available opportunity (half hour unpaid). Should the company (Supervisor) require employees to work through the normal lunch period, the employees may be excused at the end of this shift early.

Section 3 For employees assigned to work in the compressor Stations (east and West Areas) the second shift will be on a voluntary basis. If there are more volunteers than needed, the assignment will be by seniority. If there are not enough volunteers, the assignment will be made in a fair and impartial manner with the first assignment being made by inverse seniority.

For employees assigned to shift work in the Compressor Stations the schedule shall normally be as follows:

- |     |                |                                       |
|-----|----------------|---------------------------------------|
| (a) | First shift    | 7:00 a.m. to 3:00 p.m.                |
| (b) | Second shift   | 3:00 p.m. to 11:00 p.m.               |
| (c) | Third shift    | 11:00 p.m. to 7:00 a.m.               |
| (d) | Floating shift | Eight hour shift as research requires |

Section 4. It is recognized and agreed that the Company may assign employees to work overtime. The Company shall endeavor to give affected employees as much advance notice as possible of the overtime assignments. Such assignments are to be made in a fair and equitable manner, based upon the employee's classification. Nothing contained herein shall preclude the right of the Company to require a shift worker to work overtime when his relief does not show up. The Company agrees to keep records of all overtime assignments and to make such records available to the Union upon request. It is understood that the Company has the right to manage its work force and individual schedules to minimize overtime.



Section 5. Overtime paid at one and one-half (1.5) times the regular straight-time hourly rate shall be paid for all hours worked by an employee in excess of eight (8) hours per day or forty (40) hours per week. Overtime work performed on the employee's regularly scheduled sixth or seventh day shall be paid for at the rate of one and one-half (1.5) times the regular straight-time hourly rate. Vacation, holiday and sick leave time shall be considered time worked for the purpose of determining overtime.

Section 6. There shall be no duplication or pyramiding of overtime or premium pay under the provisions of this Agreement; any such hours compensable under two or more provisions of this Agreement shall be paid at higher premium rate of the two.

Section 7. In the event it is necessary to call out an employee to work, Employer agrees that such called out employee shall receive a minimum of four (4) hours of work or four (4) hours of pay at one and one-half (1.5) times the regular straight-time hourly rate. In addition, any employee called back to work after his regular shift hours shall be promptly excused upon completion of the job, which he was called in to perform.

Section 8. In the event a permanent employee reports for work at his scheduled starting time and no work is available, the employee shall be entitled to receive four (4) hours show up time pay, to be paid at the appropriate hourly rate of pay.

Section 9. In the event NASA mandates a reduced workload or work force, then employees not scheduled to work will not be paid for such days unless the Company is reimbursed by NASA.

Section 10. The Company may request an employee or the employee may request the Company that he be allowed to work more than eight (8) hours in a day without overtime compensation. In lieu of overtime compensation pursuant to this Article VI, Section 5, the employee will be given an equal amount of time off in the pay period. (For example, if an employee works ten (10) hours on Monday, he may work six (6) hours on Thursday.) Agreeing to the requests hereunder is understood to be voluntary on the employee's part and the Company's part.

## ARTICLE VII SENIORITY

Section 1. Seniority shall be defined as the length of continuous service, whether employed by the Company or its predecessor, from the employee's latest date of hire, and shall be recognized on a Bargaining Unit wide basis.

Section 2. The Company shall furnish the Union each six (6) months with an accurate seniority list of all employees in the Bargaining Unit. Such list is to include the name, classification, latest date of hire, wage rate, and home address of record of each employee.

Section 3. All employees shall be considered probationary employees for the first forty-five (45) working days of permanent employment and shall not, during such period, be entitled to any benefits of this Agreement, except paid holidays. Any decision of the Company to terminate or otherwise discipline a probationary employee shall be final and not subject to the Grievance and Arbitration provisions of this Agreement. Upon satisfactory completion of the probationary period, the employee shall become a permanent employee with seniority dating from the date of permanent hire. Relief employees will receive credit for all actual hours worked for the Company at the time the employee is permanently hired. This credit will not apply to leave accrual or any other financial benefit.

Section 4. Classification seniority shall mean the length of accumulated service within a classification.

Section 5. In effecting layoffs and recalls, classification seniority shall control where the relative skill and ability of the employees given the job requirements are the same or relatively equal.

Section 6. Seniority shall be canceled and the employee shall be considered terminated upon the happening of any of the following events:

- (a) An employee quits;
- (b) An employee is discharged;
- (c) An employee fails to return to work within five (5) days of notice of recall given by the Company by registered or certified mail;
- (d) An employee is absent for three (3) days without previously notifying the Company, except in cases of extenuating circumstances;
- (e) An employee overstays a leave of absence without notifying the Company, except in cases of extenuating circumstances;
- (f) An employee engaged in other employment during a leave of absence without obtaining prior permission of the Company;
- (g) An employee gives false reasons for obtaining a leave of absence;
- (h) Settlement has been made for total disability;
- (i) An employee has retired;
- (j) An employee has been in layoff status or is absent because of sickness or injury or similar cause for more than twelve (12) months.

Section 7. The seniority of employees promoted or assigned to jobs outside of the Bargaining Unit shall be frozen at the level obtained at the time of such transfer or promotion. In the event such employee returns to the Bargaining Unit within one (1) year, he shall be entitled to whatever rights and privileges his accumulated seniority as of the time of promotion or transfer out of the Bargaining Unit would entitle him without prejudice.

Section 8. It is agreed that each employee shall be credited by classification seniority for the period he has been working in that classification with former contractors at NASA Langley. All employees entering a different or new classification after June 1, 1988 shall have their classification seniority started on the date of entry into such classification.

Section 9. The Union expressly recognizes the need for flexibility in the work force and agrees that an employee in one classification shall not be restricted from doing temporarily the work normally done by an employee in another classification. However, all such assignments shall be made in a fair and equitable manner.

In the event an employee temporarily works in a classification for which the normal rate of pay is higher than the rate of pay received by the employee in his normal classification, he shall receive the higher rate of pay. In the event an employee is assigned work temporarily in a classification lower than his normal classification, he shall receive his regular rate of pay.

Section 10. In making assignments to a permanent job vacancy or a new job, the Company shall give first preference to any currently qualified employees who apply for the position. A notice of any such vacancy or new job shall be posted on the bulletin board for a period of three (3) days (during such time vacancy shall be considered temporary). The Company, at the end of such time period shall consider those employees who have submitted a bid notice (the form and content of which the parties shall mutually agree upon) and consistent with the overall requirements of the Company as determined by the

Company, shall select and assign the senior employee, if in its opinion the applicant is also qualified and suitable for the job.

Section 11. In the event the Company believes no properly suitable or qualified employee signs such a bid notice for a job opening, it is agreed and understood that the Company may hire a new employee for such job. Any employee who is awarded a job opening is expected to be qualified to perform the tasks of such job following initial break-in instructions and guidance from supervision.

Section 12. Employees assigned or transferred pursuant to this Article shall be given thirty (30) days in which to prove they are capable of performing the duties of the new job in a satisfactory manner. In the event such employees do not satisfactorily meet the requirements of the new job, they shall be returned to their prior position or its equivalent without prejudice. Any employee, upon request, shall be advised in the presence of his Union representative of the specific reasons for not meeting the requirements of the job and any disputes arising therefrom shall be subject to the grievance procedure.

Employees who are accepted on any bid job and are returned to their former job for failing to meet job requirements shall not be permitted to bid on any job for a period of six (6) months.

Section 13. When a reduction of working forces becomes necessary in the Company's judgment, employees shall be retained by the Company in accordance with the principles of Section 5, according to the number of employees the Company determines is necessary within each classification for the reduced operations contemplated by the Company. Recall of employees shall be accomplished by the same procedure in reverse.

Section 14. Any employee within a particular job classification who is affected by a layoff within his classification may bump, based only on Bargaining Unit seniority, any less senior employee in any like or lower rated classification, but only if qualified to perform the work within such classification.

## ARTICLE VIII GRIEVANCE AND ARBITRATION

Section 1. It is the intent of this Article to establish means for prompt adjustment of working problems and personal grievances at the job level by a conference between the immediate Foreman and the employee involved, provided a Union representative has been given an opportunity to be present. If not resolved in this informal level, a formal grievance shall be filed and processed in accordance with the steps and time limits and mutually agreed upon extensions specified below. For the purpose of this Article, a formal grievance under this Agreement is defined as a written statement by the Union, company, an individual employee or group of employees (hereinafter called "Grievance") claiming a violation of the terms of this written Agreement. Such grievance, to be valid, must specify the Article and Section of the Agreement believed to be violated.

Section 2. Except for payroll adjustments, no grievance shall be filed or processed based on facts or events or omissions within the employees knowledge, which have occurred more than ten (10) working days before such grievance is filed. Both parties agree to exert an earnest effort to settle such grievances promptly through the following steps:

STEP 1. The employee involved shall first confer with the Project Manager or his designated representative in order to amicably settle the matter, provided a Union representative has been given an opportunity to be present. The Foreman must give his decision within five (5) working days.

STEP 2. Should the grievance not be satisfactorily settled by the discussion outlined in Step 1 above, the Union shall within five (5) working days submit the grievance in writing to the Vice President, Operations or his representative. Within ten (10) working days after receipt of the written grievance, the Vice President, Operations or his representative shall either fully satisfy the grievance or meet with the Shop Steward, Business representative or International Representative of the Union and employee, if

applicable. The Vice President, Operations, or his representative will render a written decision within five (5) work days after such contact.

STEP 3. If the parties are still unable to settle the grievance, then either party may, within thirty (30) calendar days after a written decision has been given, request the Federal Mediation and Conciliation Service to submit a list of five (5) impartial arbitrators from which the Company and the Union shall choose one to decide the controversy by the Company first striking two names, and then the Union striking two (2) names, and the remaining name shall be chosen arbitrator. The arbitrator shall not have the authority to alter, amend or change the terms or provisions of this Agreement, and his decision shall be limited to the particular grievance in question. The arbitrator's decision shall be rendered in thirty (30) days and shall be final and binding on the parties.

Section 3. The Union and the Company shall equally share the fee of the impartial arbitrator, including any mutually agreed upon services relating to the arbitration proceedings. Either party shall be permitted to call employee witnesses at each and every step of the grievance procedure and no employee whose participation is reasonably necessary as a Union Representative or witness shall suffer any loss of earning as a result of so serving. The Company on demand will produce production, payroll, or other records for the purpose of substantiating the contentions or claims of the parties well in advance of the formal proceeding of the grievance procedure.

Section 4. All time limits prescribed herein may be extended by mutual agreement of the parties. Failure of the Company to respond within the time limits shall constitute a basis for escalating the grievance to the next step. Failure of the Union or employees to process the grievance to the next step within the time limits shall render the grievance invalid.

Section 5. In any case involving discharge or discipline imposed by the Company, back wages, if any are awarded, shall be limited to the amount of wages that employee would otherwise have earned less any unemployment compensation or substitute earnings during the period of discharge or suspension.

Section 6. Failure of the Company to implement the award of arbitrators within five (5) working days (if it is reasonably possible for the company to implement) after receipt shall be cause for a recognized work stoppage. No employee participating in such a work stoppage shall be discharged, disciplined, or otherwise subjected to any penalty for participation in such a work stoppage.

## ARTICLE IX LEAVES OF ABSENCE

Section 1. When it is necessary for employees to leave their duty for the purpose of attending to their personal business, and provided reasonable notice has been given the Company, employees will be granted leaves of absence without pay, provided the absences do not unduly interfere with the efficient operation of the Company. Such leaves shall not exceed six (6) months but upon written request with Company approval may be extended for additional time. The Company shall be under no obligation to an employee on leave of absence, except to return to work in accordance with the employee's seniority. It is mutually agreed and understood that leaves will not be granted for the purpose of seeking different employment.

Section 2. An employee who is summoned for jury duty, and who actually responds to said summons, will be paid the difference between the amount of money he received for jury duty pay and what he actually would have earned had he worked for the Company during the time he was absent due to jury duty, computed at the employee's regular straight-time rate for either an eight (8) hour day or five days per week. It is understood and agreed that the Company has the right to require satisfactory proof that an employee actually served on the jury panel and the number of days served.

Employees on the first and second shifts will not be required to report for work on the day they are required to serve as a juror or appear as a witness. Third shift employees will not be required to report for

work on any night prior to reporting for jury duty or appearing as a witness the following day where the workweek starts on Sunday night and on any night following where the workweek starts on Monday morning.

Section 3. In case of the death of a member of the immediate family of an employee, the employee shall be granted a maximum of three (3) consecutive workdays off with straight-time pay to attend the funeral and to tend to administrative details. It is understood that an employee must attend the funeral in order to qualify for funeral leave with pay. Verification may be required by the Company. Members of the immediate family shall be the spouse, children, step-children, parent, step-parents, father-in-law, mother-in-law, brothers, sisters, half-brothers, half-sisters, brothers-in-law, sisters-in-law, sons-in-law, daughters-in-law, grandparents, grandparents of spouse, grandchildren whether of natural relationship or legally adopted or under legal guardianship, of the employee.

Section 4.

(a) The Company agrees to observe all provisions of present law or laws hereafter enacted relating to its obligations to those of its employees who may hereafter leave the service of the Company to enter the Armed Services of the United States.

(b) Annual military leave, without pay, will be granted employees not to exceed eighteen (18) days.

Section 5. When it is necessary for employees to leave their duty for the purpose of attending to Union business other than organizational activities, and provided that reasonable notice has been given to the Company, employees will be granted leaves of absence without pay. Such leaves shall not exceed thirty (30) days, but may be extended for additional time upon written request to the Company, if such further leave is feasible. In no event will Union business leaves be granted to more than two (2) employees during any one month. The Company shall be under no obligation to an employee on Union business leave except to return to work in accordance with the employee's seniority. All such leave requests are further subject to the Company's ability to adequately replace such employee on a temporary basis.

Section 6. An employee granted unpaid leave of absence shall accrue seniority while absent on such leave. All benefits (sick leave, vacation, paid insurance and hospitalization, etc.) shall be suspended during the period of unpaid leave of absence, unless the employee makes arrangements with the Company to keep these benefits in force at the employee's expense.

Section 7. Where the provisions of this Article are in conflict with the Family Medical Leave Act (FMLA), the provisions of the FMLA will control, but shall not be interpreted to be in addition to other time that might be available under this Article. For example, an employee who is on medical leave pursuant to the FMLA for twelve (12) weeks may extend up to an additional twelve (12) weeks pursuant to Section 1 in accordance with the requirements of Section 1.

ARTICLE X  
BULLETIN BOARD

The Company agrees to allow the union to share the Company bulletin board located in the work area where employees normally check in and out for the use of the Union for posting of matters relating to Union meetings and other Union matters of a non-controversial, non-political nature only. All such notices as posted by the Union shall be signed by an authorized Union representative.

ARTICLE XI  
SAFETY, HEALTH AND SANITATION

Section 1. Any protective devices or other safety equipment necessary to protect employees from injury will be provided by the Company without cost and shall be worn and/or utilized by the employees in the performance of their job tasks. In this connection, the Company will welcome suggestions from employees, or the Union, regarding the need for additional safety equipment.

Section 2. In the event an employee suffers an injury on the job in the course of his employment and is required to leave work to go to the doctor, he shall be paid for the balance of his shift on the day such injury occurs. If the employee is able to return to work after visiting the doctor, he shall do so and shall be compensated for the time spent at the doctor.

Section 3. The Company and the Union agree and recognize that employees may from time to time have meritorious suggestions for improvement of safety conditions in the Company's operations. Therefore, the Company and the Union encourage employees to reduce any such safety suggestion to writing and submit it to the Company for consideration. It is further recognized and agreed that the Company may from time to time schedule safety meetings and require attendance by employees. Attendance of employees at any such safety meeting which is scheduled with required attendance shall be compensated for the time actually spent incidental to such safety meeting at the employee's applicable rate of pay.

Section 4. Should a walk around safety inspection of the Company's premises be conducted pursuant to the provisions of the OSHA, one (1) representative, designated by the Union, shall have the right to accompany the inspection team during regular duty hours without loss of pay.

## ARTICLE XII HOLIDAYS

Section 1. The following holidays or day(s) observed as such shall be paid holidays under this Agreement.

New Year's Day	Thanksgiving Day
President's Day	Labor Day
Memorial Day	Christmas Day
Independence Day	Columbus Day
Veteran's Day	Martin Luther King's Birthday

It is agreed that the phrase "or day(s) observed as such" means the day(s) on which the Government substantially reduces the normal activities at NASA Langley Research Center, the Center is in a "holiday or weekend mode" and the Government employees at NASA Langley Research Center celebrate the holiday.

On days which are not enumerated in paragraph one above, when because of special events or occasions, i.e., administrative holiday, inclement weather or other acts of God, situations restricting operations for short durations, the Government substantially reduces the normal activities at NASA Langley Research Center because of the special occasion or event, the following provisions apply:

Employees required to work will receive their normal straight-time pay. The number of employees required will be restricted to the number essential to maintain services.

Employees scheduled but not required to work will receive holiday pay for the day.

Section 2. An employee who is on the active payroll of the Company on a holiday recognized herein and who works his assigned schedule during that workweek, except for being absent without a legitimate reason, shall receive holiday pay at his straight-time pay rate. If an employee is scheduled or required to work on a holiday, but fails to do so, he will receive no holiday pay unless he has legitimate reason for not working.

Section 3. An employee who works on one of the above listed holidays shall be paid at one and one-half (1.5) times his straight-time base pay for all hours worked on that holiday, in addition to any holiday pay to which he may be entitled.

ARTICLE XIII  
ANNUAL LEAVE

Section 1.

(a) Employees with less than three (3) years shall earn one (1) hour Annual Leave for every twenty (20) man hours worked (to a maximum of 104 hours per year).

(b) Employees with three (3) years, but less than fifteen (15) years shall earn one (1) hour Annual Leave per year for every thirteen (13) man hours worked (to a maximum of 160 hours per year).

(c) Employees with more than fifteen (15) years shall earn one (1) hour Annual Leave per every ten (10) man hours worked (to a maximum of 208 hours per Year).

(d) For the purposes of computing Annual Leave, paid absences shall be considered as hours worked. Paid absences to be defined as Annual Leave, sick leave and holidays. During periods of short or long term disabilities or Workmen's Compensation, no accrual of Annual Leave will take place.

(e) Leave will be accrued on a pro-rata basis commencing upon permanent date of hire after there has been a successful completion of the probationary period.

Section 2. An employee's request to take annual leave shall be granted if the employee has enough accrued leave and he has given his Foreman reasonable advance notice and the employee's absence would not unduly hinder the efficiency of the Company. Requests for Annual Leave for emergency reasons will be considered on an individual basis.

Section 3. Annual Leave may be requested in full hour increments only. Any employee having accrued unused leave at the end of the leave year shall have the privilege of carrying such unused leave forward into the following year. If unused leave is carried forward, a maximum of 120 hours will be permitted. Employees that request leave as set forth in Section 2 hereof and are denied due to workload requirements shall receive pay in lieu of time off if the employee is not permitted to carry over the time requested to the extent leave was denied.

Section 4. Should a holiday fall during the employee's vacation, he shall be entitled to an additional day of vacation, which shall be the next scheduled work day, which will be the employee's holiday.

Section 5. An employee who has Annual Leave to his credit but who leaves the service of the Company shall receive pay for such annual leave. This Section does not apply for an employee who leaves the Company without proper notice, one (1) week, in which event the employee forfeits all rights to receive pay for unused Annual Leave.

Section 6. The Company will keep accurate annual leave records of each employee in the Unit. Upon request such records will be made available to the employee or the Union.

ARTICLE XIV  
SICK LEAVE

Section 1.

(a) Employees covered by this Agreement shall accumulate sick leave credit on the basis of two (2) hours for each forty (40) man hours of service with the Company with a maximum accrual of 104

hours per year. Sick leave shall be calculated from the permanent date of hire. Sick leave can be accumulated without limit. However, an employee leaving the services of the Company will not be paid for any sick leave which he has accumulated.

(b) For the purposes of computing sick leave, paid absences shall be considered as hours worked. Paid absences to be defined as annual leave, sick leave, and holidays. During periods of short or long term disabilities or Workmen's Compensation, no accrual of sick leave will take place.

(c) Sick leave may be used for the employee's illness or the employee's doctor appointment.

(d) Sick leave may not be taken or used once the employee qualifies for short or long term disability payments.

Section 2. Sick leave records will be kept by the Company for each employee covered by this Agreement. Such records will be made available to each individual employee and for the Union upon request.

Section 3. Except as hereinafter provided, employees shall not be required to furnish a medical certificate to substantiate requests for sick leave, excepting when the illness exceeds three (3) consecutive scheduled work days. In the case of a communicable disease, and in the interest of protecting other employees, the Company may require medical certification of fitness to return to work. In the event of a period of disability, for any reason (injury or illness), a medical certificate, stating employee is fit for duty, will be required prior to returning to work.

#### ARTICLE XV NO STRIKE - NO LOCKOUT

The Union agrees that it will not (during the term of this Agreement) cause, permit, threaten or participate in any strike, including the refusal to cross any other labor organization's picket lines, walkout, slow-down, boycott, picketing, work stoppage, refusal to work, or any other interference with the operation, management or functions of the Employer. The Employer agrees it will not lock out employees during the term of this Agreement.

Any employee taking part in or assisting or supporting such picketing or interruption of such operations shall be subject to discipline including discharge.

The Union shall not question the unqualified right of the Company to discipline or discharge employees engaging in, participating in or encouraging such action. It is understood that such action on the part of the Company shall be final upon the Union and its members, and shall in no case be construed as a violation by the Company of any provision of this Contract. Only the issue of fact as to whether or not any particular employee has engaged in, participated in or encouraged any such violation, is subject to the grievance procedure and arbitration.

The Company will not be required to deal with representatives of the Union during any period of picketing or interruption of operations by the Union or employees.

#### ARTICLE XVI UNION REPRESENTATION

Section 1. The Company will recognize one (1) Shop Steward and one (1) alternate Shop Steward designated by the Union to the Company in writing. The Shop Steward shall be allowed reasonable time during working hours to investigate complaints, process grievances and meetings with the Company, in connection with his collective bargaining responsibility. The alternate Shop Steward shall assume such duties when the regular Shop Steward is absent.

Section 2. The Company agrees that unit employees who file a complaint or grievance with the Company will not be questioned, in respect thereto, without the presence of a recognized Steward.



Section 3. The Shop Steward shall be allowed reasonable time during working hours to investigate complaints, process grievances and hold meetings with the Company, in connection with his collective bargaining responsibility so long as the Shop Steward shall under no circumstances cause any cessation of work or in any way interfere with the operation of the Company. In carrying out the duties of a Shop Steward it is understood the Shop Steward's duties shall not interfere with his being a productive, contributing and working employee of the Company subject to the normal and usual rules and regulations that apply to all other employees. Shop Steward desiring to leave his work place must first clear the matter with his immediate supervisor.

Section 4. In the event of a layoff, the Shop Steward shall be granted preferential seniority and will be retained without regard to seniority, as long as the Company has work which he is qualified to perform. In the event a recognized Union representative is laid off or terminated (for lack of work he is qualified to perform) he shall be the first recalled when work he is qualified to perform becomes available.

Section 5. Nothing in this Article shall be construed as the right to deny the International Representative or Business Agent the privilege of processing a grievance on behalf of a unit employee, or to participate in a grievance meeting conducted in accordance with the Grievance Procedure. It is mutually understood that such Union representative must be able to conduct himself in a professional manner and maintain channels of communications. If the Company believes in good faith that such representative does not meet these requirements it shall so notify and meet with the Directing Business Representative to resolve the situation. If such a meeting fails to resolve the matter within ten days, the Company shall meet with a General Vice President. If the matter is not resolved with the General Vice President in ten days then the Company shall not be obligated to deal with such Union representative. The Union may grieve whether the Company's determination was made in good faith.

Section 6. The Union shall be free to withdraw a grievance at any step of the Grievance Procedure without prejudice.

Section 7. Employees in the Unit will not be suspended or discharged, without first being given the opportunity for a hearing with the Project Manager. Such employee shall be afforded the right to be accompanied and represented by the Union during said hearing.

Section 8. Upon prior notice to the Project Manager or his designated representative, authorized agents of the Union, who are not employees, may, in the sole discretion of the Company if the Union appeals in Section 5 of this Article have been exhausted, have access to the Employer's establishment during working hours for the purpose of adjusting disputes, investigating working conditions and ascertaining that the Agreement is being adhered to. Such notice will include name(s) and title(s) and specific purpose of visit. It is expressly agreed that the Employer is hereby released from any and all liability for any injury to such agent, occurring while he is on the premises of the Employer or at the Government site. It is further understood that the provisions of Section 3 hereof shall also govern the activities of these union representatives at the work site.

#### ARTICLE XVII UNIT WORK PROTECTION

Work normally and historically performed by Bargaining Unit-Employees will not be contracted out or assigned to exclude employees where such action would adversely affect unit employees' employment. Adversely affected, as used in the context of the Article, shall be interpreted to mean: layoff, failure to recall, failure to promote, and the temporary assignment of an excluded employee to work within a classification where qualified employees regularly holding the classification are reasonably available to perform the work.

It is recognized by the parties that business reduction situations may occur necessitating a reduction in force. It is not the intent herein to recall employees for temporary increases in work load which will not support full time employment. Should such situations arise the Company will utilize existing

personnel to meet peak load conditions. However, it is agreed that where work load commitments will support recall of employees on layoff, such action will be taken.

ARTICLE XVIII  
WAGES AND CLASSIFICATIONS

Section 1. The rates of pay shall be those specified in Appendix "A" which is attached hereto and made a part hereof.

Section 2. The manning needs of any classification covered by this Agreement shall be determined solely by the Company. This Agreement will not constitute a guarantee of any particular job or jobs within any particular classification, nor shall it constitute a guarantee of any particular duties or deleting duties from a classification. The principal of equal pay for substantially equal work shall apply as it shall also apply to all employees within a classification.

Section 3. The Company, at its sole option, may implement new classifications and/or job descriptions in light of changed conditions and the Company shall negotiate a wage rate acceptable to the Union for such classifications/job descriptions.

ARTICLE XIX  
INVALIDITY

If any Article or Section of this Agreement should be held invalid by operation of law, or by any legal tribunal of competent jurisdiction, or if compliance with or enforcement of any Article of action should be restrained by such tribunal pending a final determination as to its validity, the remainder of this Agreement shall not be affected thereby and shall continue in full force and effect. Upon request of either party, the parties shall negotiate a satisfactory replacement for such invalid provision.

ARTICLE XX  
401(K)

The Company shall establish a 401(k) plan, to be funded by voluntary contributions of the employees. The cost to establish and administer the plan to the extent allowed by law shall be borne by the plan participants. The Company will match employee contributions to the 401(K) plan on a calendar year basis at the following rate:

Calendar Year 2001	\$300
Calendar Year 2002	\$310
Calendar Year 2003	\$320

ARTICLE XXI  
HEALTH & WELFARE BENEFITS

Section 1. For full time employees on the role as of September 1, 1991, who so elect and for full time employees hired after September 1, 1991, the Company shall make the contributions set forth in Section 2 hereof in order to provide the following benefits:

- (a) Life insurance in the amount of \$50,000.00 per employee; (after age 65 there are certain benefit reductions)
- (b) Accidental death & dismemberment policy in the amount of \$50,000-00; (after age 65 there are certain benefit reductions)
- (c) Union Delta Dental Plan A25; (25/75 deductible) and

(d) Hospitalization and medical insurance

(e) 401(k) Plan

The exact terms of the coverages are those provided pursuant to and as a part of insurance policies.

Should the cost of such benefits exceed the amount contributed by the Company, such excess cost shall be paid by the employee through payroll deductions.

Section 2. The Company shall pay the following amounts per employee per month to provide the coverages set forth in Section 1 hereof:

(a) Effective December 1, 2000:

Single coverage - \$327  
Employee + one coverage - \$352  
Family coverage - \$412

(b) The cost per employee for the dental coverage will be calculated monthly by the Company on a composite basis.

Section 3. For employees on the role as of September 1, 1991, who do not elect to have the hospitalization and medical insurance benefit set forth in Section 1 hereof, the Company shall pay on their behalf the insurance premium for the dental plan, life, AD&D and pay in lieu of the hospitalization and medical insurance benefit not elected the balance of the Company's contribution of the single coverage rate provided for in Section 2, less whatever the employee directs to the 401(k) plan.

Section 4.

(a) The Company will pay \$17.70 per month for short term disability insurance as follows:

66-2/3% of basic weekly pay to a maximum of \$500 per week.

Coverage will be from the 8th day of total disability and will extend through the 26th week of such disability.

(b) The Company will provide long term disability insurance as follows:

60% of basic monthly pay to a maximum of \$3,000 per month and in accordance with the insurance company schedule provided.

Coverage will be from the 1st day following 26 weeks of total disability through the date you cease to be totally disabled or in accordance with the insurance company schedule in reference to age.

(c) Any cost of short term disability insurance over the Company's contribution will be paid by the employee.

Section 5. It is understood that the Company's contracts with insurance carriers provide the benefits contemplated under this Article. Interpretation and application of such contracts shall ultimately rest with the insurance carrier and any dispute thereunder shall be between the employee and the insurance carrier and not subject to the Grievance Procedure of this Agreement. The Company reserves the right to change insurance carriers so long as the primary benefits are essentially the same.

ARTICLE XXII  
GENERAL PROVISIONS

Section 1. Employees within the Bargaining Unit shall be assigned and answerable to, the Contract Supervisor, or in lieu thereof, one (1) individual who shall be designated in writing, who shall be responsible for assigning work, approving absences and initiating disciplinary action. No employee shall be subject to discipline for refusing to carry out instructions of other than his designated Foreman.

Section 2. As long as NASA requirements include a provision, which requires employees of the Unit to wear uniforms, the Company will pay the cost of furnishing and laundering a change of uniforms per employee per regular working day. In the event NASA requirements in this regard are changed, it is agreed the Company shall have the right to modify the provision of this Section to the extent that NASA shall not be liable to the Company, or the Union, for any cost, which is not a requirement of the Contract between NASA and the Company.

The Company further agrees to make available several sets of rain gear in the form of slickers, hats and boots for field service trips during foul weather. This equipment will be kept in a designated area and will be checked out individually as needed. The employee will be responsible for this equipment while he has it signed out.

Section 3. The Union and the Company recognize the need to be flexible in scheduling the hours of shifts and transfers to different shifts in order to accommodate NASA directed work. In the event of changes due to NASA direction, the Company will endeavor to give a minimum of 5 days notice so long as the NASA direction to the Company is at least 5 days. If the Company gets less than 5 days notice, the Company will give whatever notice it gets.

Section 4. The Employer reserves the right to define the content of a job.

Section 5. Regular part-time employees (those employees regularly scheduled to perform less than forty (40) hours work per week who are not classified as a utility person) shall be paid pro rata benefits. Part-time employees who are scheduled on an "as needed" basis shall not be paid benefits. "Benefits," as defined for purposes of this proposal, means annual leave pay, holiday pay, sick leave or health and welfare benefits under Article XXI. To be covered by disability insurance, an employee must work an average of thirty (30) hours per week.

ARTICLE XXIII  
SUPERSEDING EFFECT OF AGREEMENT

It is expressly agreed and understood that the wages, working conditions and fringe benefits provided in this Agreement are in lieu of any and all working conditions and fringe benefits of any kind previously provided by the Company or its predecessor for employees within the Bargaining Unit.

ARTICLE XXIV  
DURATION

Section 1. This Agreement shall become effective November 1, 2000, and shall remain in full force and effect until October 31, 2003, and from year to year thereafter unless either party shall, no more than ninety (90) and at least sixty (60) days prior to any anniversary date hereof, notify the other party of a desire to amend or terminate this Agreement. In the event such notice is given, the parties shall communicate not later than fifteen (15) days after receipt of such notice for the purpose of scheduling negotiations of a new Agreement.

Section 2. No Agreement, waiver, alteration, understanding, variation or modification of any terms or conditions contained herein shall be made by any employee, or group of employees, with the Company and in no case shall it be binding upon the parties hereto unless such Agreement is made and executed in writing between the parties hereto, and the same has been ratified by the Union.

Section 3. The waiver of, or any breach of conditions of this Agreement, by either party, shall not constitute a precedent in the future enforcement of all the terms and conditions herein.

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement this \_\_\_\_\_ day of December 2000.

DISTRICT LODGE 74  
INTERNATIONAL ASSOCIATION  
OF MACHINISTS and AEROSPACE  
WORKERS

DIVERSIFIED TECHNOLOGY &  
SERVICES OF VIRGINIA, INC.

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APPENDIX A  
WAGE, SCHEDULE, ENVIRONMENTAL AND DIFFERENTIAL PAY

Section 1. The Company agrees to pay the following hourly rate for the classifications listed below:

<u>Classification</u>	<u>9/1/01</u>	<u>9/1/02</u>	<u>9/1/03</u>
Senior Plant Technician	18.43	18.98	19.55
Plant Technician	17.51	18.04	18.58
Apprentice	\$13.00		

Section 2. Shift differential shall be 35 cents per hour for second shift and 45 cents per hour for third shift work.

Section 3. When an employee is assigned to work the majority of a regular shift falling on Sunday, the affected employee will be paid 1.25 times the base rate plus applicable shift differential, if any, for all regular hours worked during the shift.

Section 4. Employees hired after October 18, 1994 may be hired at the apprentice rate of \$13.00 per hour. This rate shall only be applicable until an employee has worked 2080 hours for the Company in the apprentice rate category. Any such person in the apprentice rate category who has worked beyond the probationary period as per Article VII, Section 3, and who is on a regular schedule (not on an "as needed" basis), will be entitled to all the same benefits as a full-time or part-time employee, as the case may be.



**COLLECTIVE BARGAINING AGREEMENT**

**BETWEEN**

**DIVERSIFIED TECHNOLOGY & SERVICES  
OF VIRGINIA, INC.**

**AND**

**INTERNATIONAL BROTHERHOOD OF  
ELECTRICAL WORKERS,  
AFL-CIO**

**LOCAL UNION 1340**

**MAY 9, 2003 - MAY 8, 2006**

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**AGREEMENT**

**BETWEEN**

**DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC.**

**AND**

**INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO**

**LOCAL UNION NO. 1340**

**PREAMBLE**

THIS AGREEMENT entered into this 9<sup>th</sup> day of May 2003 by and between Diversified Technology & Services of Virginia, Inc., (hereinafter referred to as the "Company"), and Local Union No. 1340, of the International Brotherhood of Electrical Workers, AFL-CIO, (hereinafter referred to as the "Union").

WHEREAS, the Company has a contract with the National Aeronautics and Space Administration ("NASA" or "Government") to perform certain services, some of which are performed by its employees who are represented by the Union.

WHEREAS, the Company and the Union desire to mutually establish hours of work and working conditions for the employees to the end that satisfactory conditions and harmonious relations will continue to exist for the benefit of both parties to this Agreement.

WHEREAS, the Company and the Union agree that, due to the particular nature of the work covered by this Agreement, there shall be no lockouts or strikes during the life of this Agreement, and provisions must be made to achieve this end.

WHEREAS, the Union, its members and all of those employees represented by the Union, agree to use its and/or their best endeavors to protect the interest of the Company, to consider the Company's property and to give service and/or work of the highest productive quality.

WHEREAS, the Union and the Company desire to achieve these objectives, develop a working system and harmonious relations, and foster and enhance an appropriate working relationship between the Company, the Union and the Government. Progress in industry demands a mutuality of confidence between the Company and the Union. All will benefit by continuous peace and by adjusting any differences by rational, common sense methods.

NOW, THEREFORE, in consideration of the mutual promises and agreements herein contained, the parties hereto agree to as follows:

*ARTICLE I*

**TERM OF AGREEMENT**

**Section 1.** This Agreement shall take effect May 9, 2003 and shall remain in effect through May 8, 2006 and shall continue in effect from year to year thereafter, unless changed or terminated.

**Section 2.** Either party desiring to change or terminate this Agreement must notify the other in writing at least sixty (60) days prior to May 8, 2006. When Notice for changes only is given, the nature of the changes desired must be specified in the Notice and until a satisfactory conclusion is reached in the matter of such changes, the original provision shall remain in full force and effect. Neither party hereto may reopen this Agreement for negotiations on any issue, either economic or non-economic, during this contract period or any extension thereof, except as provided in Section 3 below.

**Section 3.** This Agreement shall be subject to amendments at any time by mutual consent of the parties hereto. Any such amendment agreed upon shall be reduced to writing and signed by the parties hereto. The Union may submit the amendments to the International Office of the Union, as it relates solely to compliance with State and Federal regulations.

**ARTICLE II**

## RECOGNITION

**Section 1.** The bargaining unit under this Agreement shall be comprised of all full time and regular part time (CLIN 2) Wind Tunnel Drive Control Operators currently employed in Building 1241 and Building 648 engaged primarily in electrical work employed by the Company at its NASA Langley Research Center, Hampton, Virginia location on the Research Equipment Operations Services Contract (REOS) excluding all other employees, office clerical employees, professional employees, guards, and supervisors as defined in the National Labor Relations Act. The Company agrees to recognize the Union for the bargaining unit as herein defined for the purposes of bargaining collectively and administering this Agreement.

**Section 2.** The Union and its members and the Company shall not interfere with, restrain, intimidate, or coerce any employee who does or does not choose to belong to the Union. Membership solicitation will not be conducted during working time.

**Section 3.** The Company will supply to all new hires a Union package provided to the Company by the Union consisting of a letter describing the benefits of belonging to the Union, a membership application, and a dues deduction authorization.

## ARTICLE III

### MANAGEMENT RIGHTS

**Section 1. Management Rights:** The Union recognizes that the Company retains the sole right to manage its business, as such right existed prior to the execution of this agreement except only as expressly abridged by a specific provision of this Agreement. The Company reserves and retains, solely and exclusively, all of its inherent rights to manage the business including but not limited to, the right to determine the location, relocation, or termination of any or all of its plants or facilities, including without limitation, the consolidation or merger of the Company's operations with that of any division or subsidiary of the Company that might be created or any other firm or entity; the right to contract with third parties for the performance of all or any part

of the work of the Company; the right to determine whether products, services, or any other work shall be made or purchased; to direct, instruct, and control its employees; to determine the number and qualifications of employees to perform work; to create new job classifications and to establish new rates of pay for such classifications; the right to maintain the efficiency of employees, to set performance standards, assign shifts, work or overtime; the right to hire, assign, lay-off, reclassify, promote, demote, and transfer; the right to discipline, suspend, and discharge employees for just cause; the right to determine job content and to establish the requirements for the job and those of the employees to fill such job; the right to determine the hours of work, the processes, methods, and procedures to be employed; and the right to make and enforce reasonable rules and regulations, except as expressly and specifically limited by the terms of this Agreement.

The foregoing enumeration of management rights shall not be deemed to exclude other rights of management not specifically set forth and the Company shall retain all rights to otherwise manage the work force unless specifically limited by this Agreement.

**Section 2. Limitation on Management Rights:** The Company agrees that it will not exercise its management rights to subcontract, reclassify, create new job classifications, and establish rates of pay for such classifications as a subterfuge to avoid the wage schedule set forth in this Agreement. Further, the Company agrees not to subcontract bargaining unit work in such a manner so as to directly cause the termination of bargaining unit employees unless the Company is directed to do so by the government, in which event verification of such directive will be furnished to the Union upon request. In addition, in the event the Company desires to establish one or more new bargaining unit job classifications, the applicable wage rates shall be determined by negotiation between the Company and the Union. So that operations will not be delayed through failure to immediately meet and/or agree upon wage rates

applicable to new job classification, the Company shall have the right to unilaterally set wage rates for any new job classification subject to subsequent bargaining with the Union. Negotiated rates finally established will be effectuated retroactively to the date on which the Union notified the Company in writing that the Union desired to bargain over the Company-established wage rate. In the event a new wage rate is not agreed upon between the parties, the Company established rate shall be effective, but the Union may submit to arbitration the issue of whether the Company established the new job classifications and the rates therefore as a subterfuge designed to evade payment of bargained for and agreed upon wage rates.

**Section 3. Drug Free Workplace:** The Company and the Union have a vital interest in maintaining safe, healthful and efficient working conditions for its employees. Being under the influence of alcohol or drugs (illegal or prescribed) on the job may pose serious safety and health risks not only to the user but to other employees. The possession and use, distribution or sale of an illegal substance or alcohol in the work place shall not be tolerated and will result in termination and prosecution. The Company and the Union agree to the need for a drug and alcohol program. Accordingly, the Company may develop and implement such a program provided that such program is in compliance with State, Federal, and NASA regulations.

#### *ARTICLE IV*

##### EMPLOYER TO ENCOURAGE UNION MEMBERSHIP

DTSV shall encourage all of its Union eligible personnel represented by the Union to become members of the Union.

#### *ARTICLE V*

##### GRIEVANCE PROCEDURE

**Section 1.** All grievances that may arise will be handled in the following manner. A written grievance must be filed within five (5) Normal Work Days of the event giving

rise to the grievance. The grievance must be submitted to the Project Manager on a form provided by the Company (which has been approved by Company and Union) and must describe the nature of the grievance, the facts supporting the grievance, the precise provision of the collective bargaining agreement that is alleged to have been violated, and the remedy sought. In cases involving dismissal or suspension for just cause, the grievance may be instituted at Step III.

**STEP I:** Discussion between the employee and his immediate supervisor. Upon the employee's request, the employee's steward may be present. If the employee is dissatisfied with the answer given by his supervisor, or no answer is given within three (3) Normal Work Days from the day the meeting between the employee and the immediate supervisor is held, the grievance may proceed to Step II.

**STEP II:** The employee and the steward may, no later than three (3) Normal Work Days after the answer is given in Step I or the time period for the response has expired, present to the Project Manager a written appeal of the grievance. If the Union is not satisfied with the Project Manager's decision or no decision is given within three (3) Normal Work Days of the submission of the grievance to the Project Manager, the grievance may proceed to Step III.

**STEP III:** The Union Steward may, no later than three (3) Normal Work Days after the answer is given in Step II or the time period for the response has expired, present a written appeal of the grievance to the President of the Company or her designated representative. The President (or her designee) shall meet with the Local Business Manager, or his designated representative, within three (3) Normal Work Days of receipt of grievance or longer if the President or her designee is unavailable. If the Union is not satisfied with the decision of the President (or her designee) or no decision is given within five (5)



Normal Work Days of the meeting between the President (or her designee) and the Local Business Manager, the grievance may proceed to Step IV.

**STEP IV:** The Union may, no later than five (5) Normal Work Days after receipt of the Company's decision in Step III or the time period for the response has expired, submit the matter to arbitration by requesting that the Federal Mediation and Conciliation Service submit a list of five (5) names of arbitrators, from which the Company and the Union shall choose an impartial arbitrator to decide the matter. Following receipt of the list of names of arbitrators, the parties shall then alternately strike the names from the panel and the name remaining shall be the Arbitrator in the case. The determination of which Party is to strike first shall be determined by a coin flip. Striking shall take place within seven (7) Normal Work Days of receipt of the arbitrator list.

**Section 2.** In arbitration proceedings, the expense of the impartial Arbitrator, FMCS fees, and the transcription of the proceedings shall be shared equally by both parties. The reimbursement of wages to witnesses, witness fees, and attorney's fees and other legal costs of a party shall be borne by the party incurring such expenses.

**Section 3.** The Company shall attempt to provide facilities at its corporate office, provided, however, that if such facilities are not available or are unacceptable, the Union and Company agree to equally share expenses incurred in the hearing room.

**Section 4.** The findings of the Arbitrator shall be binding on both parties.

**Section 5.** All time limits and procedural requirements stated in this Article shall be treated as jurisdictional in nature, and the failure to follow strictly any of the set time limits shall result in the grievance being void and waived, and the matter shall end without resort to arbitration. A Normal Work Day is defined as the day of the grievance and the successive days, Monday through Friday, excepting holidays. The day of the grievance, the day of response, or the day the response is due if no response is made shall be counted as Day 1.

**Section 6.** Except by mutual written agreement to the contrary, only one grievance shall be taken to arbitration at any time before the same Arbitrator.

**Section 7.** The impartial Arbitrator shall only have jurisdiction and authority to determine the meaning, application of, or compliance with the provisions of this Agreement and shall not have jurisdiction or authority to add or detract from or alter in any way such provisions or any rules of discipline attached hereto.

In cases of discharge, progressive discipline, or other discipline where the discipline imposed is permitted under the terms of this Agreement for the offense(s) committed, the Arbitrator may not modify or mitigate the disciplinary action or penalties imposed where the Arbitrator has found that the employee did, in fact, commit the offense(s) of which he was accused.

#### *ARTICLE VI*

#### UNION REPRESENTATIVES

**Section 1.** Representatives of the Union shall have access to the job during working hours on Union business. They shall obtain specific authorization for each visit from the Company, which authorization shall not be unreasonably withheld.

**Section 2.** The Union has the right to appoint one shop Steward and one Alternate, who shall serve in the Steward's absence. The Company shall be notified and furnished the name of the Steward and the Alternate in writing. The Company will deal with such designated Steward and Alternate until such designated Steward or Alternate has been revoked in writing by the Union. Such Steward or Alternate shall, after coordinating with his supervisor, be allowed reasonable time during the regular working hours, without loss of pay, to see that the terms and conditions of this Agreement are observed. The Steward or Alternate shall under no circumstances cause any cessation of work or in any way interfere with the normal operation of the Company. In carrying out the duties of a Steward it is understood that the Steward's

duties shall not interfere with his being a productive, contributing and working employee of the Company subject to the normal and usual rules and regulations that apply to all other employees. However, no Steward shall be discriminated against by the Company because of his faithful performance of duties as Steward.

#### *ARTICLE VII*

#### RECOMMENDATION OF EMPLOYEES

When employees are required, the Company shall advise the Union of such openings by posting the opening at an agreed upon location at the worksite. Referrals from the Union will be welcomed by the Company but not binding on it.

#### **ARTICLE VIII**

#### **WAGES**

**Section 1.** Wage rates set forth in Appendix "A" attached hereto, and made a part hereof, are to be paid to those employees listed under Appendix "A" for the term of this Agreement.

**Section 2.** Wages are to be paid bi-weekly in accordance with Company's policy.

#### **Section 3. Working and Basic Dues Check-off:**

THE COMPANY AGREES THAT IT WILL MAKE UNION WORKING DUES DEDUCTIONS FROM THE PAY OF ALL MEMBERS WORKING UNDER THE TERMS OF THIS AGREEMENT PLUS MONTHLY UNION MEMBERSHIP DUES ON THE BASIS OF INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS ON THE FORM SET OUT BELOW IN SECTION 4. NO DUES OF ANY KIND SHALL BE DEDUCTED WITHOUT A VALID, SIGNED PAYROLL DEDUCTION AUTHORIZATION. THE COMPANY WILL MAKE THESE DEDUCTIONS AS DESIGNATED IN THE INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS. THE EMPLOYER WILL PAY THE AGGREGATE OF SUCH TO THE FINANCIAL SECRETARY OF THE UNION, WHO SHALL BE AUTHORIZED TO ISSUE A RECEIPT IN THE AMOUNT OF

THE CALENDAR DEDUCTIONS. THE COMPANY SHALL PROVIDE A SUMMARY SHOWING THE DUES DEDUCTED FROM EACH EMPLOYEE. THE UNION, UPON PRIOR NOTICE AND AT A MUTUALLY AGREEABLE TIME, MAY EXAMINE THE COMPANY'S BOOKS TO DETERMINE IF SUCH DEDUCTIONS WERE ACCURATELY MADE. NO COPIES OF THE COMPANY'S RECORDS MAY BE MADE. THE CHECK AND/OR RESPECTIVE MONIES SHALL BE TRANSMITTED NOT LATER THAN FIFTEEN (15) DAYS AFTER THE END OF THE MONTH FOR WHICH DEDUCTIONS ARE BEING MADE.

**Section 4. Deduction Form:**

TO: DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC. - (EMPLOYER)

I hereby authorize and direct you to deduct Union working dues bi-weekly from my pay, plus monthly basic Union dues, both amounts of which are to be determined by the Local Union by-laws and the IBEW Constitution and to forward same monthly to the Financial Secretary of the Union in accordance with the Agreement between the Union and the Company. This deduction shall be made from all wages earned by me while working in the jurisdiction of Local Union 1340, IBEW.

This authorization is voluntarily made in order to pay my fair share of the Union's cost of representing me for the purposes of collective bargaining, and this authorization is not conditioned on my present or future membership in the Union.

I understand that this authorization shall remain until up to thirty (30) days following the date on which a written revocation of this authorization is provided to the Company.

I understand that under current law the payments covered by this authorization are not deductible as charitable contributions for federal income tax purposes.

Name (printed) \_\_\_\_\_ Signature \_\_\_\_\_

DATE: \_\_\_\_\_ SOCIAL SECURITY NUMBER: \_\_\_\_\_

**Section 5. Indemnification Relating to Dues Check-Off:** In the event that the Company makes an error and fails to deduct dues from an employee's pay and submit

such dues to the Union, the Company's sole responsibility will be to deduct such dues from the employee's next check after the error is called to the Company's attention. Under no circumstances will the Company have any additional liability for such errors. Further, the Union agrees to indemnify and save harmless the Company against any and all claims, demands, suits, or any other form of liability, including reasonable attorney's fees and all other costs or expenses that may arise out of, or by reason of, any action taken by the Company in compliance with the provisions of this Article.

## **ARTICLE IX**

### ***HOURS OF WORK AND OVERTIME***

**Section 1.** The typical first shift work day shall be eight (8) hours per day plus a lunch period between 5:00 a.m. and 5:00 p.m., and forty (40) hours per week Monday through Friday inclusive shall constitute a week's work. Notwithstanding the aforesaid, no minimum number of hours are promised or guaranteed. Further, nothing herein shall limit the Company to employ part-time employees or to require its employees to work outside of the normal shift hours on an as-needed, irregular basis.

**Section 2.** Overtime paid at one and one-half (1.5) times the regular straight-time hourly rate shall be paid for all hours worked by an employee in excess of eight (8) hours per day and/or forty (40) hours per week. Vacation, holiday and sick leave time shall be considered time worked for the purpose of determining overtime. There shall be no duplication or pyramiding of overtime or premium pay under the provisions of this Agreement; any such hours compensable under two or more provisions of this Agreement shall be paid at higher premium rate of the two.

**Section 3.** (a) The Company currently employs the bargaining unit employees under the Research Equipment Operations Services contract (REOS) between the Company and the government. The Company and the Union recognize the possibility that the bargaining unit work may in the future become a part of the Research

Operations Maintenance and Engineering contract (ROME) or some other contract with the government. The Company and the Union agree that in the event that under the ROME contract or another contract (other than the current REOS contract) the Company is required by such contract, or directed by the Company's prime contractor under such contract, to have its employees work workdays, workweeks, or shifts other than those set forth in this Agreement, the Company shall have the right, notwithstanding the workdays, workweeks, and shifts set forth in this Agreement, to institute such different workdays, workweeks, or shifts.

(b) When, pursuant to the terms of Section 3(a) above, an employee is assigned to work the majority of a regular shift falling on Sunday, the affected employee will be paid 1.25 times the base rate plus applicable shift differential, if any, for all regular hours worked during the shift.

**Section 4.** Employees called back to work after the conclusion of their regular shift hours shall be compensated for a minimum of four (4) hours at the appropriate overtime rate regardless of whether the employee is required to work the entire four (4) hours.

**Section 5.** The Company shall endeavor to notify any employee terminated by reason of lay-off at least two (2) weeks prior to such termination date. Employees who are laid-off or discharged will be paid all monies due by the end of the next pay period, providing all indebtedness and obligations to the Company by the employee are satisfied.

**Section 6.** Any employee showing up on time for work on a regular scheduled work day, not having been previously notified not to report to work, shall receive two (2) hours of pay for show-up time.

ARTICLE X

MULTIPLE SHIFTS

**Section 1.** When so elected by the Company, multiple shifts consisting of no less than eight (8) hours may be worked. The times of shifts shall be established by the Company subject to the requirements of Article IX, Section 1.

**Section 2.** If multiple shifts are established by the Company, there shall be a shift differential of thirty-five (35) cents per hour for second shift and forty-five (45) cents per hour for third shift.

**Section 3.** Second or third shift work shall be assigned on the following basis: The most senior qualified employee that volunteers shall have first priority. If there are no qualified volunteers, the least senior qualified employee shall be assigned. The Company shall endeavor to give an employee five (5) working days advance notice for scheduled night shift work.

ARTICLE XI

HOLIDAYS, LEAVES, AND JURY PAY

**Section 1. Holidays:**

(a) The following days shall be observed as holidays under this Agreement for which each employee who is not required to work will be paid his or her regular hourly rate times the number of hours that he or she is regularly scheduled to work each normal work day:

NEW YEAR'S DAY

LABOR DAY

Martin Luther King, Jr. Day

Columbus Day

PRESIDENTS' DAY

VETERANS DAY

Memorial Day

Thanksgiving Day

Independence Day

Christmas Day

**\*The above holidays will be observed on the same day NASA**

**Langley Research Center observes them.**

(b) In the event the government creates a new permanent federal holiday in addition to those listed in Section 1(a) above, then the employees shall be granted that holiday. In the event the government eliminates a permanent federal holiday, it will not be observed. If an employee is scheduled to work on a holiday, but fails to do so, he will receive no holiday pay and be subject to disciplinary action unless extenuating circumstances

exist.

(c) An employee who works on one of the above-listed holidays shall be paid at one and one-half (1 ½) times his straight time base rate of pay for all hours worked on that holiday, in addition to any holiday pay for which he may be qualified.

(d) To be eligible for holiday pay, an employee must work his regularly scheduled day before the holiday and his regularly scheduled day after the holiday unless excused by the Company in its sole discretion. He or she may also use accumulated vacation time in place of working on these days, with prior approval of the Company.

(e) Only full time employees shall be paid holiday pay.

## **Section 2. Administrative Leave:**

On regularly scheduled work days not recognized as holidays under Section 1 on which, due to special circumstances including but not limited to inclement weather or government directive, the normal activity of the Company is reduced with the result that a substantial number of the Company's employees covered by this Agreement are not required to work, the following provisions shall apply:

(a) Those employees who are required to work will be paid at their straight-time hourly rate, provided however, that said employees will receive compensatory time off equal to the time worked paid at the employee's straight-time rate of pay.

(b) Those employees who are scheduled but not required to work will receive paid leave for the day at their regular straight-time hourly rates provided that the government is obligated to or otherwise agrees to reimburse the Company for said pay.

(c) Employees who are out on sick leave or vacation will charge their time to administrative leave, not sick leave or vacation provided that the government is obligated to or otherwise agrees to reimburse the Company for said administrative leave.

## **Section 3. Annual Leave:**

(a) Employees with less than three (3) years shall earn one (1) hour Annual Leave for every twenty (20) man hours worked (to a maximum of 104 hours per year).

(b) Employees with three (3) years, but less than fifteen (15) years, shall earn one (1) hour Annual Leave for every thirteen (13) man-hours worked (to a maximum of 160 hours per year).

(c) Employees with more than fifteen (15) years shall earn one (1) hour Annual Leave for every ten (10) man-hours worked (to a maximum of 208 hours per



year).

(d) For the purposes of computing Annual Leave, paid absences shall be considered as hours worked. Paid absences are defined as Annual Leave, sick leave and holidays. During periods of short or long term disabilities or Workmen's Compensation, no accrual of Annual Leave will take place.

(e) Leave will be accrued on a pro-rata basis commencing upon permanent date of hire after there has been a successful completion of the probationary period.

(f) An employee's request to take annual leave shall be granted if the employee has enough accrued leave and he has given his supervisor reasonable advance notice and the employee's absence would not unduly hinder the efficiency of the Company. Requests for Annual Leave for emergency reasons will be considered on an individual basis.

(g) Annual Leave may be requested in full hour increments only. Any employee having accrued unused leave at the end of the leave year shall have the privilege of carrying such unused leave forward into the following year. If unused leave is carried forward, a maximum of 120 hours will be permitted. Employees that request leave as set forth in paragraph (f) hereof and are denied due to workload requirements shall receive pay in lieu of time off if the employee is not permitted to carry over the time requested to the extent leave was denied.

(h) An employee who has Annual Leave to his credit but who leaves the service of the Company shall receive pay for such annual leave. However, this Section does not apply for an employee who leaves the Company without giving at least one (1) week's notice or who is discharged for just cause, in which cases the employee will not receive pay for unused Annual Leave.

(i) The Company will keep accurate annual leave records of each employee in the Unit. Upon request such records will be made available to the employee or the Union.

(j) The Company reserves the right to schedule vacation for its employees.

- (k) Length of service shall be defined as the period of continuous service, whether employed by the Company or its predecessor (provided the employee performed similar work at NASA Langley Research Center for such predecessor), from the employee's latest date of hire.

**Section 4. Sick Leave:**

- (a) Employees covered by this Agreement shall accumulate sick leave credit on the basis of two (2) hours for each forty (40) man hours of service with the Company with a maximum accrual of 104 hours per year. Sick leave shall be calculated from the permanent date of hire (after the successful completion of the probationary period). Sick leave can be accumulated without limit. However, an employee leaving the services of the Company will not be paid for any sick leave which he has accumulated.
- (b) For the purposes of computing sick leave, paid absences shall be considered as hours worked. Paid absences to be defined as annual leave, sick leave, and holidays. During periods of short or long term disability or Workers' Compensation, no accrual of sick leave will take place.
- (c) Sick leave may be used for the employee's illness or the employee's doctor's appointment or to be with a sick family member whose illness requires the employee to be present.
- (d) Sick leave may not be taken or used once the employee qualifies for short or long term disability payments.
- (e) Sick leave records will be kept by the Company for each employee covered by this Agreement. Such records will be made available to each individual employee and for the Union upon request.
- (f) The Company in its discretion may require medical certification of fitness to return to work following the use of sick leave stating employee is fit for duty.

(g) Employees absent from work because of illness must inform the Company of the telephone number where they may be reached during such time of illness.

(h) Employees requesting same day sick leave calling in later than the normal start of the shift will receive Leave Without Pay (LWOP) for the day unless extenuating circumstances exist.

(i) Employees may be required to submit a written doctor's excuse for all hours exceeding twenty-four (24) in any calendar year period. In addition to not being paid sick leave, employees failing to submit the appropriate documentation will be subject to disciplinary action.

#### **Section 5. Jury Pay:**

An employee who is summoned for jury duty, and who actually responds to said summons, will be paid the difference between the amount of money he received for jury duty pay and what he actually would have earned had he worked for the Company during the time he was absent due to jury duty, computed at the employee's regular straight-time rate for either an eight (8) hour day or five days per week. The employee will advise the Company promptly that he has been called to jury duty. It is understood and agreed that the Company has the right to require satisfactory proof that an employee actually served on the jury panel and the number of days served. An employee who is summoned as a witness will be released from work provided that such employee gives the Company at least seventy-two (72) hours advance notice and a copy of the subpoena or as otherwise required by law. The employee will not be paid by the Company for appearing as a witness.

Employees on the first and second shifts will not be required to report for work on the day they are required to serve as a juror or appear as a subpoenaed witness. Third shift employees will not be required to report for work on any night prior to reporting for jury duty or appearing as a witness the following day where the workweek starts on Sunday night and on any night following where the workweek starts on Monday morning.

#### **Section 6. Bereavement Pay:**

In case of the death of a member of the immediate family of an employee, the employee shall be granted a maximum of three (3) consecutive workdays off with straight-time pay to attend the funeral and to tend to administrative details. It is understood that an employee must attend the funeral in order to qualify for funeral leave with pay. Verification may be required by the Company. Members of the immediate family shall be the spouse, children, step-children, parent, step-parents, father-in-law, mother-in-law, brothers, sisters, half-brothers, half-sisters, brothers-in-law, sisters-in-law, sons-in-law, daughters-in-law, grandparents, grandparents of spouse, grandchildren whether of natural relationship or legally adopted or under legal guardianship, of the employee.

**Section 7. Tuition Reimbursement:**

Tuition Reimbursement will be made available to employees covered by this Agreement in accordance with the Company's general tuition reimbursement policy, as amended from time to time.

*ARTICLE XII*

SUPERVISION

The Company reserves the right to send into the area of work as many supervisors and engineers as it deems necessary to carry out the work covered by the Agreement, but they shall not perform any manual work, except in cases of emergency, instruction, and on the job training or to lend an occasional hand or when there is no bargaining unit employee available to perform the work on that shift.

*ARTICLE XIII*

FIRST AID AND SAFETY

The employees covered by this Agreement shall, at all times while in the employ of the Company, be bound by the safety rules and regulations as established and issued by the Company from time to time.

*ARTICLE XIV*

GENERAL WORK RULES

General Work Rules affecting employee conduct are attached hereto and made a part hereof.

It is agreed by the Union that all of the employees covered by this Agreement shall be made aware of these General Work Rules and regulations by the Company at the time of their hire and that they shall be bound by them throughout the duration of their employment.

It is further agreed that violation of these General Work Rules and regulations is direct and just cause for disciplinary action, including immediate discharge subject to Article V, Grievance Procedure.

*ARTICLE XV*

SENIORITY

**Section 1.** In the event of a layoff, the employees in the affected position or positions with the least seniority shall be laid off first, provided, however, that the Company shall have the right to designate a number of employees as protected from the layoff without regard to seniority. The number of employees that the Company may so designate as protected will be equal to the greater of one (1) or ten percent (10%) of the employees being laid off in a given reduction in force. The designation of the protected employee or employees will be within the discretion of the Company and not subject to the grievance-arbitration procedures of this Agreement. There will be no bumping rights. Laid off employees will be recalled to work in order of seniority.

**Section 2.** All new employees shall be on a probationary period for a period of ninety (90) calendar days. Probationary employees shall receive the wages and the fringe benefits, as described in this Agreement. New employees shall have no seniority until the probationary period has been completed. After completion of the probationary period, an employee's seniority shall then be credited from the date of hiring.

Any decisions by the Company to terminate a probationary employee, shall be final and will not be subject to Article V (Grievance Procedure).

**Section 3.** A seniority list of employees shall be prepared by the Company, provided to the Union, and posted at the work site upon request by the Union not more often than once every six months.

**Section 4.** Any controversy of the seniority standing of any employee on the seniority list must be submitted to the Company within fifteen (15) days after the initial posting of the seniority list or any such protest shall be deemed to be waived.

**Section 5.** Seniority shall be lost and the employee terminated from the bargaining unit upon the happening of any of the following events:

- (a) An employee quits.
- (b) An employee is discharged
- (c) An employee fails to return to work within five (5) days of notice of recall given by the Company by registered or certified mail.
- (d) Settlement has been made for total disability.
- (e) An employee has retired.
- (f) An employee has been on layoff status for more than twelve (12) months, or is absent because of sickness or injury or similar cause for more than twelve (12) months.
- (g) An employee accepts a permanent position outside of the collective bargaining unit and remains outside of the unit for more than ninety (90) days.

#### *ARTICLE XVI*

#### **PROTECTIVE LEGISLATION**

All employees covered by this Agreement shall have the protection of all existing Federal, State, and Local laws applicable to employees in general. The grievance-arbitration procedure shall be the sole and exclusive forum in which an employee may assert any claim that the Company has violated the provisions of this Agreement. For any claim, charge, or cause of action covered by, arising under, or brought pursuant to any Federal, State, or Local statute, law, regulation, or order as well as any matter purportedly arising under common law which relates in any way to the employee's employment with or termination from the Company, each bargaining unit employee will be required to submit such claims to binding arbitration in accordance with the Company's standard employee arbitration agreement, which each employee shall be

required to sign. The grievance-arbitration procedure contained herein shall not apply to such claims, charges, or causes of action. Such claims, charges, or causes of action shall include, but shall not be limited to, those covered by or arising under, or brought pursuant to Title VII of the Civil Rights Act of 1964, the Pregnancy Discrimination Act, the Equal Pay Act, the Civil Rights Act of 1991, the Civil Rights Acts of 1866 (42 U.S.C. § 1981) and 1871 (42 U.S.C. § 1983), the Age Discrimination In Employment Act, the Older Workers' Protection Act, the Americans With Disabilities Act, the Family and Medical Leave Act, the Fair Labor Standards Act, the Labor Management Relations Act, the National Labor Relations Act, the Consolidated Omnibus Budget Reconciliation Act, the Employee Retirement Income Security Act, the Uniformed Services Employment and Reemployment Rights Act, the Immigration Reform and Control Act of 1986 (including 8 U.S.C. § 1324b), the Workers Adjustment and Retraining Notification Act, and the Occupational Safety and Health Act. However, any claim involving insurance coverage (other than employment practices or similar insurance), including without limitation, the payment of medical bills by any employer sponsored health insurance plan, workers' compensation claims, or any other entitlement that an employee may claim for which the Company maintains insurance coverage shall not be subject to any grievance and/or arbitration process.

#### *ARTICLE XVII*

##### PERIODIC CONFERENCE

Periodic conferences may be held by the parties from time to time for the purposes of discussing matters of mutual interest.

#### *ARTICLE XVIII*

##### GENERAL SAVINGS CLAUSE

Any provisions in this Agreement which are held to be in contravention of any Federal, State, or Local regulations or laws affecting all or part of the limits covered by

this Agreement shall be suspended in operation within the limits to which such law or regulation is in effect. Such suspension shall not affect the operation of any such provisions covered by this Agreement, to which the law or regulation is not applicable. Nor shall it affect the operations of the remainder of the provisions of the Agreement within the limits to which such law or regulation is applicable.

*ARTICLE XIX*

AGREEMENT AGAINST STRIKES AND LOCKOUTS

**Section 1.** The Company agrees not to cause, permit or engage in any lockout of its employees during the term of this Agreement. The Union agrees that neither it nor its members, individually or collectively, will, during the term of this Agreement, cause, permit or take part in any strike or sympathy strike (including failure to report to work because of another's picket), sit-down, stand-in, slow-down, informational picket, curtailment or restriction of production or interference of work in or about the Company or the premises.

**Section 2.** In the event that any employee or employees shall call, engage in, participate in or assist any unauthorized slow-down, work stoppage, sympathy strike or strike against the Company, the Union agrees to the following:

- (a) That the Company may take whatever disciplinary action it deems appropriate against such employee or employees, including discharge; and
- (b) That the Union will immediately disavow and refuse to recognize any picket line or lines established as a result of said unauthorized slow-down, work stoppage or strike against the Company, and will instruct employees not to respect or recognize any said picket line or lines.

**Section 3.** Nothing contained herein shall preclude any right to which the Company or Union may be entitled to secure legal or other redress of any individual who has caused damage or injury to or loss of its property, nor does the Company or Union cede any rights in this regard to which it may be entitled.



## ARTICLE XX

### TRANSFERS, TEAM CONCEPT

Section A. Employees may be transferred from one job to another on a temporary basis so long as the employee is paid the higher of the rate of pay of the temporary job or the employee's current rate of pay.

Section B. The Union recognizes that the Company operates its contract on a "team" approach. This means that there are no closed classifications, that employees will be expected to perform the duties that are assigned to them, and that employees may be cross-trained to perform more than one job. Notwithstanding the foregoing, no employee shall be required to perform work that he is not qualified to perform, and an employee shall not be required to exclusively perform work outside of his job classification other than on a temporary basis.

## ARTICLE XXI

### TRAINING PROGRAM

**The Company and the Union agree to work together to develop a training program for new hires. The goals of this program are: (1) to provide equipment-specific training to new hires in a organized fashion; and (2) to provide a basis to recognize and compensate the equipment-specific knowledge and skill of long-term employees by providing entry level and intermediate wages for new hires who have yet to complete the training program. The training program will be a two (2) year program with an initial wage of \$13.00 paid during the first year and an intermediate wage of the midpoint between \$13.00 and the regular rate for the applicable position. Based upon a new hire's experience, skill and ability, and ability to acquire the necessary skills and knowledge, the new hire may, based upon criteria to be developed, advance through one or both years of the training program at an accelerated rate and/or skip one or both years of the training program as may be appropriate. A committee will be formed to develop the training program that will be comprised of an equal number of representatives from the Company and the Union.**

## ARTICLE XXII

### GOVERNMENT REQUIREMENTS

The Union agrees to cooperate with the Company in all matters required by its contract with the Government, and the Union recognizes that the terms and conditions of this Agreement are subject to the contractual prerogatives of the Government. The Union agrees that any actions taken by the Company pursuant to or as a result or part of complying with a directive from the Government shall not constitute a breach of this Agreement. In the event that the Company is required by the Government to deviate from any provision of this Agreement, the Company shall advise the Union and give the Union the opportunity to meet and confer with the Company regarding the Government's requirement.

## ARTICLE XXIII

### HEALTH AND WELFARE

**Section 1.** The Company shall contribute, on behalf of each full time bargaining unit employee, the sum of one hundred eighty dollars (\$180.00) in the first year of this Agreement, one hundred eighty-five dollars (\$185.00) in the second year of this Agreement, and one hundred ninety dollars (\$190.00) in the third year of this Agreement per two week pay period for use in the Company's "cafeteria plan." A full time employee is an employee who regularly works at least forty (40) hours per workweek. Part time employees will receive a pro rata contribution based upon hours regularly worked. The employee shall have the right to designate the option or

options in the cafeteria plan on which his health and welfare pay will be spent from those listed below subject to certain mandatory requirements as designated below and other terms and conditions as currently existing or established from time to time:

- (a) Health Insurance (mandatory for all full time employees unless proof of other health insurance is provided);
- (b) Dental Insurance (optional);
- (c) Short Term/Long Term Disability (mandatory for all employees regularly working at least thirty (30) hours per week)
- (d) Accidental Death and Dismemberment Insurance (mandatory for all employees regularly working at least thirty (30) hours per week)
- (e) Standard Life Insurance (mandatory for all employees regularly working at least thirty (30) hours per week)

The exact terms and conditions of the coverages are those provided pursuant to and as a part of insurance policies.

Should the cost of such benefits exceed the amount contributed by the Company, such excess cost shall be paid by the employee through payroll deductions.

**Section 2.** 401(k). All employees will have the option of participating in the Company's 401k retirement plan. The Company will match any contribution up to three hundred twenty dollars (\$320.00) for each calendar year.

**Section 3.** It is understood that the Company's contracts with insurance carriers provide the benefits contemplated under this Article. Interpretation and application of such contracts shall ultimately rest with the insurance carrier and any dispute thereunder shall be between the employee and the insurance carrier and not subject to the Grievance Procedure of this Agreement. The Company reserves the right to change insurance carriers so long as the primary benefits are essentially the same.

#### *ARTICLE XXIV*

##### *GENERAL*

This Agreement constitutes the entire agreement between the parties and any prior practices inconsistent with this Agreement are not binding on the Company.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement consisting of thirty-five (35) pages, which has been signed on this 9<sup>th</sup> day of May, 2003.

The masculine gender as used herein ("he", "his", "him", "man") shall be deemed to include the feminine gender ("she", "hers", "her", "woman").

#### **ARTICLE XXV IBEW COPE CHECK-OFF**

The Company agrees to deduct and transmit five cents (\$.05) per pay hour from wages of these employees who voluntarily authorize such contributions on a form provided for the purpose by the appropriate IBEW, Local COPE Committee. These transmittals shall be made monthly and shall be accompanied by a list of names of those employees for whom such deductions have been made and the amount deducted for such employee. The transmittal shall be due to the Local COPE Treasurer no later than the 15<sup>th</sup> of the month following the end of each calendar month.

DEDUCTION FORM:

TO DIVERSIFIED TECHNOLOGY & SERVICES OF VIRGINIA, INC.:

I hereby authorize the Company to deduct from my pay the sum of \$.05 (five cents) for each hour worked and to forward that amount to the International Brotherhood of Electrical Workers, Committee on Political Education. This authorization is signed voluntarily and not out of any fear of reprisal and on the understanding the IBEW-COPE is engaged in a joint fund raising effort with the AFL-CIO, will use the money contributed to that effort to make political contributions and expenditures in connection with federal and state elections, and that this voluntary authorization may be revoked at any time by notifying the Company and IBEW-COPE in writing of a desire to do so. Contributions of gifts to IBEW-COPE are not deductible as charitable contributions for federal income tax purposes.

Print Name: \_\_\_\_\_ SS#: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

ARTICLE XXVI

WAGE SCHEDULE

Section 1. The Company agrees to pay the following hourly rate for the classifications listed immediately below:

WAGE RATE PER HOUR

CLASSIFICATION	5/9/03	5/9/04	5/9/05
SENIOR OPERATOR		\$19.34	\$19.92
OPERATOR A		\$18.75	\$19.31
			\$20.52
			\$19.89

All wage increases shall become effective on the first day of the next pay period following the dates indicated above.

**FOR THE EMPLOYER:  
DIVERSIFIED TECHNOLOGY  
& SERVICES OF VIRGINIA, INC.**

**FOR THE UNION:  
INTERNATIONAL BROTHERHOOD  
OF ELECTRICAL WORKERS,  
AFL-CIO LOCAL UNION NO. 1340**

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DR. ELIZABETH B. DAVID, PRESIDENT  
1340 BUSINESS MANAGER

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JAMES W. AVERY

THURMAN BURGESS  
1340 BARGAINING COMMITTEE

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Bryan Collins  
1340 Bargaining Committee

## **APPENDIX A**

### **CBA Between Diversified Technology & Services of Virginia, Inc. and IBEW Local 1340**

May 9, 2003

#### **GENERAL WORK RULES**

These rules are established to define a standard of personal conduct which is expected of every employee while on duty. A violation of any rule that merits disciplinary action will be acted upon by the Company as follows:

#### **PURPOSE**

The purpose of this policy is to provide a work environment that produces maximum efficiency, high employee morale and individual recognition. Our experience has shown that almost all employees enjoy working in such an environment.

#### **SCOPE**

Having a work environment which is based on the concept of individual dignity requires the establishment of rules and regulations to be used as guidelines for measuring conduct in individual situations.

These work rules place demand on the individual employee to understand and abide by the standards. DTSV will endeavor to apply these standards in a fair and just manner.

The policy and procedures that follow details the work rules, counseling procedures (often called "Progressive Discipline") and an employee appeal process to ensure fairness.

#### **POLICY**

DTSV has established the following work standards, policies, standard practices that are applicable to all employees. DTSV will endeavor to apply these standards in a fair and just manner. Each situation involving employee conduct represents an individual problem, therefore, good judgment and thorough knowledge of the facts are essential for timely resolution. The Company and the Union have considered the issue that an employer's entire work record should be considered in imposing discipline. Thus, similar infractions may result in different discipline because of a difference in work records. As a result, the Company's disparate discipline shall not be admissible in any grievance. Each grievance will be seen as an individual, stand alone problem.

All DTSV employees are responsible for maintaining acceptable conduct while on the job. In the event an employee's conduct falls below acceptable standards, the employee will be counseled and may be subject to disciplinary action.

## **TYPES OF DISCIPLINARY ACTIONS**

The type of action is determined by the severity of the offense. In cases of minor violations, “progressive discipline” will normally be used.

**Oral Warning.** If an employee’s conduct warrants only an oral warning, the supervisor shall counsel such employee and document the warning for the record. It is the responsibility of the supervisor to make clear to the employee the following:

- The conduct giving rise to the warning
- Positive steps to be taken by the employee to avoid further management action.

### **Written Warning**

An employee's immediate supervisor shall explain to the employee the conduct giving rise to the written warning and specify whether or not this is a repeat violation. The written warning will be on the Notice of Disciplinary Action form and may be accompanied by any other written record.

### **Final Warning Review**

When the employee's conduct has violated DTSV Policies, Rules of Conduct or Standard Practices, the employee may be placed on Final Warning. When on Final Warning, a further infraction of any Company rule within one hundred eighty (180) days will result in discharge even where the additional violation itself would not mandate termination. A copy of the Notice of Disciplinary Action form shall be completed.

### **Suspension**

In appropriate cases, an employee may be suspended from work. When an employee is suspended from work without pay or ineligible for other compensation, the employee shall be informed verbally and a Notice of Disciplinary Action form will be completed. The form shall document the suspension action and specify the violation which led to the suspension.

### **Termination**

Employees may be terminated for just cause and, when such action occurs, it shall be documented on the Notice of Disciplinary Action form. Termination cannot be implemented until reviewed with the corporate office of the Company.

### **Emergency and Administrative Suspension**

This type of suspension may be made pending investigation or further consideration by the Company and/or when the employee's continued presence at the worksite may present a danger to the safety and welfare of others or adversely impact the operations of the Company. Emergency and Administrative Suspension shall be without pay unless determined otherwise in the sole discretion of the Company.

### **CAUSES FOR DISCIPLINARY ACTION**

A. Commission of any of the following infractions will be considered grounds for and will normally result in immediate discharge:

- Failure to report a serious offense or a Company or Government vehicle accident promptly and properly.
- Theft or deliberate damage to property, including the unauthorized use or removal of Company, Government or a fellow employee's property.
- Engaging in or fostering espionage, sabotage or other criminal activity.
- Selling, or offering for sale, any drug in violation of law.
  - Refusing to take blood alcohol and/or alcohol Breathalyzer test when it is suspected that the employee is under the influence of alcohol.
  - Possessing, using, or being under the influence of illegal drugs on or when trying to enter Government or Company controlled property. This prohibition does not apply to drugs prescribed or administered by a licensed physician.
- Possessing, using, or being under the influence of alcohol on or when trying to enter Government or Company controlled property, during normal duty hours.
- Conviction of any felony offense. This rule does not apply when sentencing for the offense specifies adjudication of guilt is withheld.
- Failure to be granted an Unescorted Access Authorization (UAPRP) for ADP work areas when such is required, and/or secret clearance within 180 calendar days from the date of employment.
- Deliberate misuse of time cards, time clock or time sheets.
- Fighting or any other act of workplace violence, including making threats to a coworker or supervisor.
- Any material false statement made in connection with an employee's employment, including statements made on an application for employment, to a medical examiner, to disparage the reputation of a Company or Government employee or to obtain a leave of absence.



- Unauthorized possession of firearms, explosives, or other weapons on Government or Company controlled property.
- Entering the Government installation when restricted from doing so by the Government.
- Insubordination, including an unjustified refusal or intentional failure to perform an assignment, use of profane language to a supervisor, and engaging in an inappropriate public confrontation
- Racial, ethnic or sexual harassment or other acts of discrimination based upon race, creed, color, religion, sex, age, national origin, or disability, including acts of retaliation against an employee in connection with complaints of discrimination.
- Sexual misconduct on the worksite.
- A serious safety violation, such as those that would threaten the life of or potentially cause serious injury to an employee, his co-worker or others or would cause or tend to cause significant property damage or other loss
- Unauthorized use or dissemination of or permitting the unauthorized use or dissemination of any privileged or classified information.
- Lending, borrowing, altering, or other misuse of a security badge.
- Failing to report to work for three (3) consecutive scheduled days without previously notifying the Company except in extenuating circumstances as determined in the Company's discretion.
- Overstaying a leave of absence without notifying the Company, except in cases of extenuating circumstances.
- Engaging in other employment during a leave of absence without obtaining prior permission of the Company.
- Other conduct of a similar severity and gravity such that immediate discharge is appropriate.

B. Commission of any of the following infractions will be grounds for disciplinary action ranging from a warning or reprimand to discharge. Progressive discipline will normally, but not always, be used for these offenses:

### **General Conduct**

- Improper conduct on Government or Company controlled property.

- Immoral, indecent or disgraceful conduct on or off the premises which prejudices the Company, its employees or the Government
- Practical jokes or horseplay.
- Using threatening, abusive or profane language.
- Gambling.
- Acceptance of anything of monetary value from any supplier, customer or other contractors or prospective contractors, or their representatives.
- Sleeping on the job.
- Using work hours for personal use, including but not limited to reading newspapers or other unauthorized material during work hours.
- Repeated tardiness, unexcused absences, abuse of sick leave privileges, or failure to notify supervision promptly when unable to report to work.
- Leaving the plant or work assignment during working hours without prior supervisory permission.
- Outside employment or other outside activity not compatible with the full and proper discharge of the employee's position with the Company.
- Violation of Company-approved procedures for accomplishing work.
- Violating other Company or Government rules and regulations contained in the Company handbook or elsewhere
- Unauthorized selling, soliciting or collecting contributions for any purpose whatsoever, at any time, on the premises.
- Engaging in other conduct of a similar severity and gravity such that discipline is appropriate.

### **Safety Rules and Regulations**

- Failure to observe safety rules and regulations, including but not limited to those contained in the applicable Diversified Technology & Services of Virginia, Inc. Health and Safety Plan, or otherwise creating or contributing to unsafe working conditions.
- Disobeying safety instructions given by supervisors or other proper authorities.

- Failure to use required safety equipment.
- Failure to report on-the-job injuries or accidents, or to follow instructions for treatment of injuries.
- Disobeying nonsmoking or non-eating signs; smoking in posted nonsmoking areas.
- Reckless or negligent operation of Government, Company, or private vehicles while on Government or Company controlled property or while on Company business.
- Engaging in other conduct of a similar severity and gravity such that discipline is appropriate.

### **Security Regulations**

- Violation of security rules or regulations, including but not limited to failure to wear a security badge where required.
- Failure to observe the established regulations regarding the protection of privileged or classified matter or information against accidental or deliberate disclosure to unauthorized persons.
- Unauthorized entry into restricted areas or allowing unauthorized individuals into restricted areas.
- Possessing cameras, special viewing devices or radio transmitters on Government or Company controlled property without the proper authorization.
- Convictions of misdemeanor offenses not compatible with the full and proper discharge of the employee's position with the Company.
- Refusal to permit the search of packages, lunch boxes, briefcases, purses, etc., upon request of authorized individuals.
- Engaging in other conduct of a similar severity and gravity such that discipline is appropriate.

### **Misuse of Property and Funds**

- Misuse or unauthorized use of Government or Company controlled property, material, equipment, funds, or other property including scrap or salvage.

- Misuse, loss, or unauthorized modification of Company or Government computer systems, programs or data bases. This includes hardware, software, communications links and computer time.
- Working on unauthorized projects on Government or Company controlled premises.
- Performing any rework, repair, or modification on any materials or items without the proper authorization.
- Removal of Quality status stamps, tags or documents, and/or the use of any materials or parts that have been rejected by Quality.
- Using Company time for non-Company work.
- Using equipment, tools, stationery, or official vehicles for personal purposes.
- Misusing or abusing telecommunications equipment or services.
- Engaging in other conduct of a similar severity and gravity such that discipline is appropriate.

### **ABSENCE AND TARDINESS**

Paid sick leave is an insurance policy to protect the employee's wages in case of an emergency. Sick leave shall be used only for the intended purpose. Since abuse of absenteeism or tardiness increases costs, creates an undue hardship on fellow employees and limits ability to effectively plan and accomplish goals, when an employee has been out in excess of thirty (30) hours within a six (6) month period or has more than two (2) instances of tardiness, a written warning will be issued. Any additional instance of absenteeism or tardiness will result in the employee being placed on Final Warning. Any additional instance of absenteeism or tardiness while on Final Warning will result in termination. Such termination may only be grieved as to whether the final event occurred. If that event occurred, the termination may not be reversed. Where an employee's record shows a pattern of absence abuse, immediate termination will result. The Company shall be responsible for maintaining attendance records for employees.

### **NOTICE OF DISCIPLINARY ACTION FORM**

The DTSV Notice of Disciplinary Action Form will be used to document all formal disciplinary actions.

#### **Explanation of the form items:**

- **Nature of Charge.** Use a short title for the offense, (i.e., excessive tardiness, neglect of duty, possession of intoxicating liquor, etc.).
- **Description of Offense.** Record the essential facts supporting the charge.

- **Comments.** May be used to further explain to an employee the effect or severity of the offense.

### **APPROVAL CYCLE**

The initiation of a Notice of Disciplinary Action form is the responsibility of the employee's immediate supervisor. Before disciplinary actions are placed into effect, the supervisor initiating such action shall communicate with and obtain the concurrence signature of the Project Manager. All terminations or suspensions shall be discussed with the Corporate Office.

**MAINTENANCE AGREEMENT BETWEEN JOHNSON CONTROLS WORLD  
SERVICES, INC.**

**AND**

**INTERNATIONAL BROTHERHOOD OF ELECTRICAL  
WORKERS, AFL-CIO**

**LOCAL UNION 1340**

**AUGUST 1, 2000 - JULY 31, 2003**

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**A G R E E M E N T  
B E T W E E N**

*Johnson Controls World Services, Inc.*

**AND**

**INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO  
LOCAL UNION NO. 1340**

**PREAMBLE**

THIS AGREEMENT entered into this 1st day of August 2000 by and between Johnson Controls World Services, Inc., Inc (hereinafter referred to as the "Company"), and Local Union No. 1340, of the International Brotherhood of Electrical Workers, AFL-CIO, (hereinafter referred to as the "Union"), for the purpose of all maintenance work assigned to the Company by the National Aeronautics and Space Administration, (hereinafter referred to as "NASA"), under the Facility and Equipment Support Services (FESS) Contract and performed by the employees of the Company covered by this agreement only within the NASA Langley Research Center (Station) site and sites and properties related thereto.

WHEREAS, the Company is engaged in the business of maintenance (as defined in Article V) and this work is of importance to the Union, and it being recognized that there is a difference in the conditions required to perform this type of work, the Union and the Company wish to enter into an agreement for their benefit covering work of this nature.

WHEREAS, the Union has in their membership within the area, members competent and Qualified to perform the work of the Company.

WHEREAS, the Company now employs members of the Union on maintenance work recognized by the Union.

WHEREAS, the Company and the Union desire to mutually establish hours of work and working conditions for the workers to the end that satisfactory conditions and harmonious relations will continue to exist for the benefit of both parties to this Agreement.

WHEREAS, the Company and the Union agree that, due to particular nature of the work covered by this Agreement, there shall be no lockouts or strikes during the life of this Agreement, and provisions must be made to achieve this end.

The Union, its members and all of those employees represented by the Union, agree to use its and/or their best endeavors to protect the interest of the Company, to consider the Company's property and to give service and/or work of the highest productive quality.

The Company and the Union have a common sympathetic interest in the maintenance industry. Therefore, a working system and harmonious relations are necessary to improve the relationship between the Company, the Union and the Public. Progress in industry demands a mutuality of

confidence between the Company and the Union. All will benefit by continuous peace and by adjusting any differences by rational, common sense methods.

NOW, THEREFORE, in consideration of the mutual promises and agreements herein contained, the parties hereto agree to as follows:

## ARTICLE I

### TERM OF AGREEMENT

**Section 1.** This Agreement shall take effect August 1, 2000 and shall remain in effect through July 31, 2003 and shall continue in effect from year to year thereafter, unless changed or terminated.

**Section 2.** Either party desiring to change or terminate this Agreement must notify the other in writing at least sixty (60) days prior to August 1, 2003. When Notice for changes only is given, the nature of the changes desired must be specified in the Notice and until a satisfactory conclusion is reached in the matter of such changes, the original provision shall remain in full force and effect. Neither party hereto may reopen this Agreement for negotiations on any issue, either economic or non-economic, during this contract period or any extension thereof, except as provided in Section 3 below.

**Section 3.** This Agreement shall be subject to amendments at any time by mutual consent of the parties hereto. Any such amendment agreed upon shall be reduced to writing and signed by the parties hereto. The Union may submit the amendments to the International Office of the Union, as it relates solely to compliance with State and Federal regulations.

## ARTICLE II

### RECOGNITION

**Section 1.** The bargaining unit under this Agreement shall comprise all maintenance employees of the Company now employed or in the future for maintenance work at the NASA Langley Research Center (Station).

**Section 2. The Company:**

- (a) Agrees to recognize the Union as herein duly constituted for the purpose of bargaining collectively and administering this Agreement for the employees.

- (b) Agrees to bargain collectively with the Union and to be governed by the terms of this Agreement.

### *ARTICLE III*

#### MANAGEMENT RIGHTS

The Union recognizes that the Company retains the sole right to manage its business, as such right existed prior to the execution of this agreement except only as expressly abridged by a specific provision of this Agreement. The Company reserves and retains, solely and exclusively, all of its inherent rights to manage the business including but not limited to, the direction of the working force including the right to hire, assign, suspend or discharge for just cause and to make rules governing the conduct of the working force which will be applied in a reasonable fashion. The Company and Union, by mutual agreement, may change or add to the General Work Rules contained in this Agreement.

The Company has a vital interest in maintaining safe, healthful and efficient working conditions for its employees. Being under the influence of alcohol or drugs (illegal or prescribed) on the job may pose serious safety and health risks not only to the user but to all industrial equipment vehicles and other employees. The possession and use, distribution or sale of an illegal substance or alcohol in the work place shall not be tolerated and may result in termination and prosecution. The Company recognizes that its own health and future are dependent upon the physical and psychological health of its employees. Accordingly, it is the right, obligation, and intent of the Company to maintain a safe, healthful, and efficient working environment for all of its employees and to protect Company/NASA property, equipment, and operations.

The Company and the Union agree to the need for a drug and alcohol program. The Company will develop and present such a program to the Union in compliance with State, Federal and NASA regulations.

### *ARTICLE IV*

#### UNION SECURITY

It is agreed that all employees coming under the terms of this Agreement shall be required to make application to joining the Union within thirty (30) days of employment or Agreement, whichever is later, and as a condition of continued employment, must maintain membership for the life of this

Agreement and any renewal thereof. In the event the Union requests the contractor to dismiss an employee to comply with the provisions of this Article, such request shall be complied with by the contractor. The Union will notify all current and new-hire employees of their rights under Union security.

#### *ARTICLE V*

##### SCOPE OF WORK

**Section 1.** This Agreement covers all maintenance work assigned to the Company by NASA under the Facility and Equipment Support Services Contract and performed by the employees of the Company covered by this Agreement only with the NASA, Langley Research Center (Station) site and sites and properties relating thereto.

#### *ARTICLE VI*

##### DEFINITIONS

Maintenance is defined as any work assigned by the Company which is consistent with the terms of the Company's Facility and Equipment Support Service Contract with NASA for the purpose of preserving NASA's facilities and wind tunnels in suitable working condition. Said work will be consistent with the Company's obligation to perform any such work under the Service Contract Act.

#### *ARTICLE VII*

##### GRIEVANCE PROCEDURE

**Section 1.** All grievances that may arise will be handled in the following manner. Any written grievance must be filed within five (5) working days of the event given rise to the grievance. In cases involving dismissal or suspension for just cause, the grievance may be instituted at Step III.

**STEP I:** Prior to processing any written grievance, any employee who believes he has a grievance, must discuss it with his immediate supervisor, upon his request he may have his steward present. If the employee is dissatisfied with the answer given by his supervisor, or no answer is given within three (3) normal work days, Step II will be followed.

**STEP II:** The Employee, and his steward shall present to the immediate Supervisor a written grievance form provided by the Company (which has been approved by Company and Union)

stating what the grievance is, and the remedy sought. If the Supervisor's decision is not satisfactory, or is not given within three (3) normal work days, Step III will be followed.

**STEP III:** The grievance shall be forwarded by the Union steward to the Manager, Human Resources or his designated representative within three (3) normal work days after the Supervisor's unsatisfactory written decision, or failure to give a decision. The Manager, Human Resources shall meet with the Local Business Manager, or his designated representative, within three (3) days of receipt of grievance. If the Manager, Human Resource's decision is not satisfactory, or is not given within five (5) normal work days, Step IV will be followed.

**STEP IV:** The Union may, no later than five (5) working days after receipt of the Company's decision in Step III, submit the matter to arbitration by requesting that the Federal Mediation and Conciliation Service submit a list of five (5) names of arbitrators, from which the Company and the Union shall choose an impartial arbitrator to decide the matter. Following receipt of the list of names of arbitrators, the parties shall then alternately strike the names from the panel and the name remaining shall be the Arbitrator in the case. The determination of which Party is to strike first shall be determined by a coin flip. Striking shall take place within seven (7) days of receipt of the arbitrator list.

**Section 2.** In arbitration proceedings, the expense of the impartial Arbitrator shall be shared by both parties.

**Section 3.** The Company shall attempt to provide facilities at Langley Research Center (Station) provided, however, if no facilities are available at the Center, the Union and Company agree to equally share expenses incurred in the hearing room.

**Section 4.** The findings of the Arbitrator shall be binding on both parties.

**Section 5.** All time limits stated in this Article shall be treated as jurisdictional in nature, and the failure to follow any of the set time limits shall result in the grievance being void and waived, and the matter shall end without resort to arbitration. A normal work day is defined as any day on which any bargaining unit employee is at work, Monday through Friday, excepting holidays.

**Section 6.** Except by mutual written agreement to the contrary, only one grievance shall be taken to arbitration at any time before the same Arbitrator.

**Section 7.** The impartial Arbitrator shall only have jurisdiction and authority to determine the meaning, application of, or compliance with the provisions of this Agreement and shall not have jurisdiction or authority to add or detract from or alter in any way such provisions or any rules of discipline attached hereto.

#### *ARTICLE VIII*

##### UNION REPRESENTATIVES

**Section 1.** Representatives of the Union shall have access to the job during working hours on Union business. They shall, as regulations on the site permit, obtain specific authorization for each visit from the Company when required.

**Section 2.** The Union has the right to appoint a Chief Steward and two shop stewards at the Company. The Company shall be notified and furnished the name of the Stewards in writing. The Company will deal with any such designated Steward until such designated Steward has been revoked in writing by the Union. Such Steward shall after coordinating with his supervisor be allowed reasonable time during the regular working hours, without loss of pay, to see that the terms and conditions of this Agreement are observed. In no event shall the presence of the Steward disrupt or interfere with the work of the Company. No Steward shall be discriminated against by the Company because of his faithful performance of duties as Steward.

The Steward shall be given preferential seniority provided he/she has been performing the steward duties for six (6) consecutive months and has not less than twelve (12) months seniority.

#### *ARTICLE IX*

##### REFERRAL OF EMPLOYEES

**Section 1.** When employees are required, the Company shall request from the Local Union that the required number of applicants be referred for employment. The following standards shall apply:

- (a) The selection of applicants for referral to jobs shall be on a nondiscriminatory basis and

shall not be based on, or in any way affected by Union membership, by-laws, rules, regulations, constitutional provisions, or any other aspect of obligation of Union membership, policy, or requirement. Local Union 1340, International Brotherhood of Electrical Workers, does accept application for referral to the Maintenance Project covered by this Agreement regardless of race, color, sex, handicap, national or ethnic origin. It does not discriminate on the basis of race, color, sex, handicap, national or ethnic origin in the referral of applicants.

(b) The Company shall retain the right to select or reject any applicant referred by the Local Union, and shall have the further right to select any applicant from among those referred by the Union. When the Company requests an applicant or referral from the Union, the Union will refer such applicant within forty-eight (48) hours [two (2) working days] and in the event the Union fails to refer an applicant within that period of time, the Company is free to utilize other sources to fill its manpower needs.

(c) The Local Union shall post in places where notices to employees and applicants for employment are customarily posted, all provisions relating to the function of its hiring arrangements, including the provisions herein set forth. The Company shall similarly post in places where notices to employees and applicants for employment are customarily posted, all provisions relating to the function and operation of the hiring arrangements including these provisions.

(d) The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs and/or any other forms of action and assumes any and all liabilities and expenses that shall arise out of or by reason of the Union's administration of the hiring hall referred to in this Article. It is also expressly understood that those applicants that are referred by the Union will be selected on a nondiscriminatory basis and that the Company shall assume the liabilities that attach for failure to hire an applicant referred by the Union.

(e) The Union agrees to recognize the Company's Affirmative Action Program and will refer qualified job applicants according to established under utilization goals.

**Section 2.** In addition to the foregoing minimum standards, the Local Union agrees to refer all applicants for employment to this project according to the standards for criteria uniformly applied to any project in the area. All exclusive referral procedures must establish Appeal Boards and the Company and the applicable Local Union agree to be bound by all decisions of the Appeal Board.

**Section 3.** The Company agrees to be bound by the hiring practices in the local area not inconsistent with the terms of this Agreement, provided that, where the hiring provisions or practices that prevail in a local area are on other than an exclusive basis, such provisions or practices shall be applicable if not in violation of either State or Federal law.

**Section 4.** The designation and determination of the number of Supervisors and other supervisory personnel is the responsibility of the Company.

**Section 5.** The above hiring provisions have been entered into in order to comply with the Mountain Pacific doctrine of the National Labor Relations Board. Upon any Board or court decision or administrative ruling modifying or changing the Mountain Pacific doctrine, either party to this Agreement shall have the right to re-open negotiations pertaining to this Article by giving the other party thirty (30) days written notice.

## **ARTICLE X**

### **WAGES**

**Section 1.** Wage rates set forth in Appendix "A" attached hereto, and made a part hereof, are to be paid to those employees listed under Appendix "A" for the term of this Agreement.

**Section 2.** Wages will be paid weekly by means of direct deposit or by check to be delivered to the job site. The payroll period to close at midnight on Thursday.

**Section 3.** The Company agrees to make available to all employees United States Savings Bonds through payroll deduction.

**Section 4. Working and Basic Dues Check-off:**

THE COMPANY AGREES THAT IT WILL MAKE UNION WORKING DUES DEDUCTIONS FROM THE PAY OF ALL MEMBERS WORKING UNDER THE TERMS OF THIS AGREEMENT PLUS WEEKLY UNION DUES ON THE BASIS OF INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS ON THE FORM SET OUT BELOW IN SECTION 5. THE COMPANY WILL MAKE THESE DEDUCTIONS WEEKLY AS DESIGNATED IN THE INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS. THE EMPLOYER WILL PAY THE AGGREGATE OF SUCH TO THE FINANCIAL SECRETARY OF THE UNION, WHO SHALL BE AUTHORIZED TO ISSUE A RECEIPT IN THE AMOUNT OF THE CALENDAR DEDUCTIONS. THE COMPANY SHALL SEND A MUTUALLY AGREED NUMBER OF COPIES OF A FORM FURNISHED BY THE UNION WHICH SETS FORTH THE EMPLOYEE'S NAME, SOCIAL SECURITY NUMBER, THE NUMBER OF CLOCK HOURS WORKED, AND THE



EMPLOYEE'S GROSS EARNINGS FOR THE CALENDAR MONTH, AND SAID COPIES WILL BE EXECUTED TO COVER THE AGGREGATE NUMBER OF WEEKLY PAYROLLS IN EACH CALENDAR MONTH. THE CHECK AND/OR RESPECTIVE MONIES SHALL BE TRANSMITTED NOT LATER THAN FIFTEEN (15) DAYS AFTER THE END OF THE MONTH FOR WHICH DEDUCTIONS ARE BEING MADE.

**Section 5. Deduction Form**

TO: JOHNSON CONTROLS WORLD SERVICES, INC. - (EMPLOYER)

I hereby authorize and direct you to deduct Union working dues weekly from my pay, plus monthly basic Union dues, both amounts of which are to be determined by the Local Union by-laws and the IBEW Constitution and to forward same monthly to the Financial Secretary of the Union in accordance with the Agreement between the Union and the Company. This deduction shall be made from all wages earned by me while working in the jurisdiction of Local Union 1340, IBEW.

This authorization is voluntarily made in order to pay my fair share of the Union's cost of representing me for the purposes of collective bargaining, and this authorization is not conditioned on my present or future membership in the Union.

This authorization and direction shall be irrevocable for a period of one (1) year from the date hereof or until the termination date of present Agreement, whichever is sooner, without regard to whether I am a member of the Union during that period, and I agree that this authorization shall be automatically renewed and irrevocable for successive periods of one year unless revoked by written notice to you and the Union within the ten (10) day period prior to the anniversary of this authorization. I understand that under current law the payments covered by this authorization are not deductible as charitable contributions for federal income tax purposes.

Name (printed) \_\_\_\_\_ Signature \_\_\_\_\_

Date: \_\_\_\_\_ Social Security Number: \_\_\_\_\_

**ARTICLE XI**

***DAY WORK CONDITIONS***

**Section 1.** Eight (8) hours per day shall constitute a standard workday normally between the hours of 7:00 am and 3:30 PM. Forty (40) hours per week shall constitute a week's work, Monday through Friday, inclusive.

**Section 2.** All time worked before and after the established work day of eight (8) hours, Monday through Friday, and all time worked on Saturday shall be paid for at the rate of time and one half (1 1/2). All time worked on Sundays and the Holidays stated in Article XIV shall be paid for at the rate of time and one-half (1 1/2).

**Section 3.** By mutual consent of the Company and the Union, the starting and quitting times of any shift, including day work, may be permanently changed.

**Section 4.** Employees called back to work after the conclusion of their regular shift hours shall be compensated for a minimum of three (3) hours at the appropriate overtime rate regardless of whether the employee is required to work the entire three (3) hours. In addition, any employee called back to work after his regular shift hours shall be promptly excused upon completion of the job which he was called in to perform.

**Section 5.** Overtime Distribution Policy

0 Purpose

The Company will make every reasonable effort to divide work among the employees in each Department by classification and shift as impartially as is practicable. In doing this it is recognized that the Company will take into account the qualifications of employees for the job to be done and the efficient operation of the Department.

1 Procedures

Step I In assigned overtime, employees shall perform the overtime work required. Employees actively working the task requiring overtime shall perform the overtime work required. In the event of extenuating circumstances and an employee is unable to perform overtime work assigned, the overtime assignment shall be referred to following overtime policy.

Step II Employees will be selected for the overtime on the basis of the lowest overtime credited hours, provided they are qualified to perform the work.

Step III The necessity for the Company to work overtime to provide rapid response to emergency overtime is recognized in order to meet maintenance and service requirements. It is expected that employees will continue to cooperate in working overtime for Company and employee best

interests. If there is insufficient number of employees to perform required work, employees will be selected on the basis of their ability to perform the job in the reverse order of seniority. The least senior qualified person will be required to perform the needed work.

2        Scheduled Overtime

Employees who do not want to be considered for overtime work will declare that fact and it will be so designated by the Supervisor. These employees will be credited as having the highest overtime, plus one hour, in their department and classification.

3        Emergency Overtime:

Emergency overtime will be equitably distributed when possible. Emergency overtime will be recorded separately, but included in the total overtime hours.

4        New Hires

On the hire date the new employee will be credited with the highest overtime hours, plus one hour in the department and classification for distribution purposes.

5        Record Keeping

A written record of overtime worked by employees in each Department will be maintained by the employee's Supervisor. The overtime record will indicate the employee's name and the date. Employees will be credited with overtime worked by recording the actual number of hours worked. Employees unable to work overtime when requested, shall be deemed to have worked the overtime hours actually worked on the task for the distribution of overtime purposes.

g)       Improper Overtime

Should the Company and the Union determine that the employee was improperly denied overtime opportunities, the Company shall provide the employee with future available scheduled overtime, provided the employee is qualified for the job to be done and it does not disrupt the efficient operation of the department. This does not apply to the emergency overtime.

6        Time Sheets

This policy is for distribution of overtime hours worked. For pay purposes overtime hours are the hours recorded on the time sheet.

7        Implementation of Policy

Supervisors will record overtime records to the Overtime Distribution Records for. The recording on the Overtime Distribution for will start from zero hours, effective 1 August 2000.

**Section 6.** Full time regular Employees terminated by reason of lay-off shall be notified at least two (2) weeks prior to such termination date. Employees who are laid-off or discharged will be paid all monies due by the end of the next pay period, providing all indebtedness and obligations to the Company by the employee are satisfied.

**Section 7.** Any employee showing up on time for work on a regular scheduled work day Mon-Fri, not having been previously notified to report to work, but to whom no work is provided shall receive two (2) hours of pay for show-up time. Employees may be required to stay on the job for the duration of the show-up period.

*ARTICLE XII*

TEMPORARY SHIFT WORK CONDITIONS

**Section 1.** When so elected by the Company, multiple shifts consisting of no less than eight (8) hours may be worked. When two day shift (2) or three (3) shifts are worked, the first or day shift shall normally be established on an eight (8) hour basis, 7:00 am to 3:30 pm; the second shift shall normally be established on an eight (8) hour basis, 3:15 pm to 11:45 pm; and the third shift shall normally be established on an eight (8) hour basis, 11:30 pm to 8:00 am.

**Section 2.** The pay for the second shift shall be straight time plus eight (8.0) percent; and the third shift rate of pay shall be straight time plus ten and one half(10.5) percent.

**Section 3.** All time worked before and after the established shift hours in any twenty-four (24) hour period, Monday through Friday, inclusive, and all time worked on Saturdays shall be paid at the rate of time and one-half (1 1/2) All time worked on Sundays and Holidays shall be paid at the rate of time and one-half (1 1/2). Employees scheduled to work on a Saturday, Sunday, or Holiday should be guaranteed a minimum of three (3) hours work at the appropriate overtime rate.

**Section 4.** Night Shift Rotation: Any second or third shift work shall be on a voluntary basis.

The most senior qualified employee that volunteers shall have first priority. If there are no volunteers, the least senior employee shall be put on the above shift work, which shall be rotated every thirty (30) days. There shall be five (5) working days advance notice given for scheduled night shift work, except in cases of emergency. If employees volunteer for shift work this does not relieve them of their normal scheduled rotation.

(This section does not apply to employees who have permanently volunteered or have been permanently hired for the night shift. Provided this does not restrict the Employer for assigning said employees to a different shift according to the above procedure.)

#### *ARTICLE XIII*

### **PERMANENT SHIFT WORK CONDITIONS**

**Section 1.** The permanent shift rate premium for the afternoon shift will be straight time plus Eight (8.0) percent, and the permanent shift rate premium for the night shift will be straight-time plus ten and one half (10.5) percent.

**Section 2.** The standard workday shall be eight (8) hours of continuous employment excluding lunch period. Forty (40) hours per week shall constitute a week's work. All time worked in excess of eight (8) hours per work day and all time worked on either one of the two scheduled off days shall be paid for at the rate of time and one-half (1 1/2). If both of the scheduled days off are worked, the first day shall be paid at the rate of time and one-half (1 1/2) and the second day shall be paid at the rate of time and one-half (1-1/2).

**Section 3.** Permanent shift workers will have two consecutive days off per week in lieu of Saturday and/or Sunday.

**Section 4.** When permanent shifts are canceled, the Union shall be given at least three days in writing, if possible.

#### *ARTICLE XIV*

### HOLIDAYS, LEAVES, JURY PAY AND PENSION

#### **Section 1. Holidays:**

Agreement: (a) The following days shall be observed as holidays under this

NEW YEAR'S DAY

Martin Luther King Day

WASHINGTON'S BIRTHDAY

Memorial Day

Independence Day

LABOR DAY

Columbus Day

VETERAN'S DAY

Thanksgiving Day

Christmas Day

**\*The above holidays will be observed on the same day NASA observes them.**

(b) In the event the government proclaims a permanent holiday other than those listed in Section 1 above, then the employees shall be granted that holiday. If an employee is scheduled to work on a holiday, but fails to do so, he will receive no holiday pay.

(c) An employee who works on one of the above-listed holidays shall be paid at time and one-half (1 1/2) his straight time base rate of pay for all hours worked on that holiday, in addition to any holiday pay for which he may be qualified.

(d) Holiday pay shall not be included in computation of weekly overtime.

(e) To be eligible for holiday pay, an employee must work his regularly scheduled day before the holiday and his regularly scheduled day after the holiday unless excused by the Company.

8 Only permanent shift employees shall be paid holiday, vacation, and sick leave at their applicable shift rate of pay.

9 By mutual agreement, employees having 5 weeks of annual leave may request to sell-back to the Company up to two weeks of leave at their regular straight time rate of pay. Employees Having 4 weeks of annual leave may request to sell-back to the Company 1 week of leave at their regular straight time rate of pay.

## **Section 2. Administrative Leave:**

On days not recognized as holidays under Section 1 above, but where the government, because of special events and occasions substantially reduces the normal activity at the Center because of such social event or occasions, and allows reimbursement to the Company, the following provisions shall apply:

(a) Those employees who are required to work will be paid at their straight-time hourly rate; provided, however, that said employee will receive compensatory time off equal to the time worked and his straight-time base rate of pay for such compensatory time.

(b) Those employees who are not required to work will receive regular straight time a day's compensation at their regular straight hourly rates.

(c) Employees who are out on sick leave or vacation will charge

their time to sick leave or vacation and not administrative leave, when notification of base closing is given after the end of the shift that is immediately prior to the administrative leave.

**Section 3.** Annual Leave:

- (a) Employees with less than three (3) years, shall earn one (1) hour Annual Leave per year for every twenty (20) man hours paid, excluding overtime.
- (b) Employees with three (3) years, but less than fifteen (15) years, shall earn one (1) hour Annual Leave per year for every thirteen (13) man-hours paid, excluding overtime.
- (c) Employees with more than fifteen (15) years shall earn one (1) hour Annual Leave per year for every ten (10) man-hours paid, excluding overtime.
- (d) Employees are permitted to carry only thirty (30) days of Annual Leave from one year to the next, by December 31 each year.
- 10 Length of service includes the whole span of continuous service with the present (successor) contractor, and with the predecessor contractors in the performance of similar work at the same Federal Facility Except, as cancelled and terminated according to article XXI Section 5, effective with the ratification of this agreement of August 2000.
- 11 Employees desiring to take Annual Leave must receive permission from the Company by 9:00 am the day before Annual Leave is desired. Effective upon signing this Agreement, each employee will be allowed four (4) unscheduled annual leave absences to be taken at the employee's discretion. The employee will have four (4) opportunities from August 1 to July 31 to take this unscheduled leave. The total number of hours for unscheduled absences can not exceed thirty-two (32) hours.
- (g) Employees who schedule vacations of one (1) week or more and who submit a written request through Payroll two (2) weeks or more in advance of the vacation starting time, will be paid vacation allowance prior to the end of the work shift on the last work day preceding the vacation schedule.

**Section 4.** Sick Leave:

- (a) Employees will earn one (1) hour of sick leave for every twenty (20) hours paid, excluding overtime.
- (b) Employees absent from work because of illness must, upon reasonable request in accordance with the Company sick leave policy, submit administratively acceptable evidence that they were ill and unable to work.
- (c) Employees may accumulate all unused sick leave from one year to the next.
- (d) Employees absent from work because of illness must inform the Company of the telephone number where they may be reached during such time of illness.
- (e) Employees requesting same day sick leave calling in later than the start of the shift will receive Leave Without Pay (LWOP) for the day.
- (f) Employees will be required to submit a written doctor's excuse for all hours exceeding twenty-four (24) in any calendar year period. Employees failing to submit the appropriate documentation will be subject to the following disciplinary action:
  - 1. The first offense will be a suspension equal to the amount of hours in excess of twenty-four (24) hours.
  - 2. The second offense will be a three (3) day suspension.
  - 3. The third offense will result in termination.
- 12 Employees having 400 hours and above of accrued sick leave may extend their initial

twenty-four hour period by submitting doctor's excuses during that period. Employees having less than 400 hours will have all sick leave hours used counted toward the twenty-four hour period.

**Section 5. Jury Pay:**

(a) Regular full-time employees who are absent on a regularly scheduled day and/or days of work because of jury service shall be paid. Said jury service pay is conditioned upon such employee reporting his jury summons in advance to the Company. Regular full-time employees are allowed time off without loss of pay only when subpoenaed/summoned by the city, county, state, or federal government or the Company on behalf of the government or the Company, in cases where the government or the Company have a principal interest. The employee must provide the Company with a copy of the subpoena/summons.

**Section 6. Bereavement Pay:**

(a) In the event of the death in an employee's immediate family of any of the following relatives; Spouse, Child, Mother, Father, Brother, Sister, the employee shall be entitled to be absent from work for a period not to exceed three (3) normal working days to afford him an opportunity to attend the funeral and/or participate in other matters relating to the death of the deceased. This period of time will not exceed three (3) normal work days following the funeral. During such absence, the employee shall be compensated at his regular straight time hourly rate for each eight (8) hour work day absent.

13 In the event of the death of an employee's Grandparent or an employee's Grandchild, the employee shall be granted two days off to attend the funeral providing the funeral occurs on a normal work day and providing the employee attends the funeral. During such absence the employee shall be compensated at his regular straight time hourly rate.

14 The Company shall reimburse a designated steward for lost wages resulting from his attendance at the funeral of any employee if such funeral takes place during normal working hours.

**Section 7. Retirement Fund:**

(a) The Company agrees to contribute on behalf of all employees working under the terms of this Agreement, seven and one-half percent (7.5%) of their gross weekly pay into a Pension Fund on an individual account basis.

(b) The said Pension Fund shall be administered pursuant to an agreement and declaration of trust administered the check for the amount representing the jointly by an equal number of persons representing the Local Union and the Company.

(c) The Trustee shall determine the rules and regulations regarding the Pension Fund and that such rules and regulations conform to all requirements of the law.

15 The check and/or respective monies shall be transmitted not later than fifteen (15) days after the end of the month for which contributions are being made. Along with the check for the amount of calendar monthly contributions, the Company shall furnish to the Trust Fund a mutually agreeable form setting forth the employee's name, social security number, the number of clock hours worked, and his gross earnings for the calendar month, and said copies will be executed to cover the aggregate number of weekly payrolls in each calendar month.



## TRAVEL

During the term of this Agreement subsistence, travel allowance, mileage, per diem, or pay for travel time shall not be paid to any employee covered by the terms of this Agreement unless approved by the Contract Manager.

### *ARTICLE XVI* SUPERVISION

The Company reserves the right to send into the area of work as many supervisors and engineers as it deems necessary to carry out the work covered by this Agreement, but they shall not perform any manual work, except in cases of emergency, instruction, and on the job training.

### *ARTICLE XVII* TOOL ROOMS

The Company and the Union agree that it shall be the Company's prerogative to maintain and operate tool rooms and parts warehouse facilities.

### *ARTICLE XVIII* FIRST AID AND SAFETY

**Section 1.** The employees covered by this Agreement shall, at all times while in the employ of the Company, be bound by the safety rules and regulations as established by the Company. All employees will be issued Company safety manuals.

**Section 2.** A Joint and Safety Health Committee will be established for the purpose of making constructive recommendations to the Company. The Committee will consist of four (4) members; two (2) appointed by the Company and two (2) bargaining unit employees appointed by the Union. Meetings shall be held once each month and the time spent in attendance by these members shall be compensated for the time at the employee's applicable rate of pay, and minutes shall be recorded and copies furnished to the members of the Committee.

### *ARTICLE XIX*

## INTERFACING

On projects requiring multi-craft support, those crafts may be required to support each other in an effort to complete the task in a more efficient manner. This will require craftsmen to assist other crafts under the direction of the craftsman needing the assistance. In no way is this intended for craftsman to perform the tasks of another trade. It is understood by both parties that interfacing pertains strictly to skilled craftsmen only, excluding laborers.

## *ARTICLE XX*

### GENERAL WORK RULES

General Work Rules affecting employee conduct are attached hereto and made a part hereof.

It is agreed by the Union that all of the employees covered by this Agreement shall be made aware of these General Work Rules and regulations by the Company at the time of their hire and that they shall be bound by them throughout the duration of their employment.

It is further agreed that violation of these General Work Rules and regulations is direct and just cause for disciplinary action, including immediate discharge subject to Article VII, Grievance Procedure.

ARTICLE XXI  
SENIORITY

**Section 1.** In the event of reduction of the work force, employees with shortest length of service in their craft, will be laid off first.

**Section 2.** All new employees shall be on a probationary period for a period of ninety (90) calendar days. Probationary employees shall receive the wages and the fringe benefits, as described in this Agreement. New employees shall have no seniority until the probationary period has been completed. After completion of the probationary period, an employee's seniority shall then be credited from the date of hiring.

Probationary employees shall receive performance reviews on or about thirty (30), sixty (60), and eighty-five (85) days after date of hire. Any decisions by the Company to terminate a probationary employee on the basis of response to supervision, attendance, or ability to perform assigned tasks, shall be final and will not be subject to Article VII (Grievance Procedures) of this Maintenance Agreement. This applies to the termination of probationary employees only.

**Section 3.** A list of employees arranged in order of length of service with the Company (Predecessor inclusive) and length of service within a craft, shall be prepared by the Company once every six months. One copy shall be sent to the Union on Company letterhead, another copy shall be posted in a conspicuous place on the Company's bulletin board.

**Section 4.** Any controversy of the seniority standing of any employee on the seniority list must be submitted to the Company within fifteen (15) days after the posting of the seniority list or any such protest shall be deemed to be waived.

**Section 5.** Benefit and Craft Seniority shall be canceled and terminated upon the happening of any of the following events:

- (a) An employee quits.
- (b) An employee is discharged
- (c) An employee fails to return to work within five (5) days of notice of recall given by the Company by registered or certified mail.
- (d) Settlement has been made for total disability.
- (e) An employee has retired.
- (f) An employee has been in layoff status for more than twelve (12) months, or is absent because of sickness or injury for twenty four (24) months.
- (g) An employee accepts a position outside of the collective bargaining unit and remains outside of the unit for more than ninety (90) days.

**Section 6.** Apprentice craft seniority, upon completion of the apprenticeship, shall revert back to the date of Indenture.

**Section 7.** Should an employee accept a position with the Company, whether covered by the Bargaining Agreement or not and he or she or the Company decides, within 90 days against said move the employee shall be reinstated to his or her former position with no loss of seniority or pay as if the move had never occurred.

*ARTICLE XXII*

PROTECTIVE LEGISLATION

All employees covered by this Agreement shall have the protection of all existing Federal, State, and Local laws applicable to employees in general.

*ARTICLE XXIII*

PERIODIC CONFERENCE

Periodic conferences shall be held by the parties from time to time for the purposes of discussing matters of mutual interest.

*ARTICLE XXIV*

GENERAL SAVINGS CLAUSE

Any provisions in this Agreement which are in contravention of any Federal, State, Local or County regulations or laws affecting all or part of the limits covered by this Agreement shall be suspended in operation within the limits to which such law or regulation is in effect. Such suspension shall not affect the operation of any such provisions covered by this Agreement, to which the law or regulation is not applicable. Nor shall it affect the operations of the remainder of the provisions of the Agreement within the limits to which such law or regulation is applicable.

*ARTICLE XXV*

WORK STOPPAGE

During the length of this Agreement, there shall be no lockout by the Company, and no slowdown, work stoppages, or sympathy strikes by the Union.

*ARTICLE XXVI*

## LANGLEY FEDERAL CREDIT UNION CHECK-OFF

The Company agrees to Check-off authorization, if duly signed by the employee, for the Langley Federal Credit Union and said money will be forwarded to the Credit Union, subject to the following:

- (1) All authorizations for Langley Federal Credit Union Check-offs will be honored by the Company only upon the receipt by the Company of executed forms sent to the Company by the Credit Union.
- (2) All cancellations for Credit Union Check-offs will be honored by the Company only upon the receipt by the Company of properly executed forms sent to the Company by the Credit Union.
- (3) All cancellations of increases or decreases in such Check-offs which are received by the Company a minimum of three (3) working days prior to the close of a pay period, will be processed by the Company effective with that pay period provided, however, at least thirty (30) days have lapsed since processing a change notice for the affected employee. The Union agrees to save the Company harmless from any action or claims growing out of these deductions (Check-off) and commenced by any employee or former employee of the Company. The Company's sole responsibility is to forward the monies deducted to the credit Union weekly. The check-off period to close midnight on Friday and payment to be mailed on or before the Friday of the following pay week.

### **ARTICLE XXVII**

#### **APPRENTICESHIP AND JOURNEYMEN TRAINING**

An Apprenticeship Training Program, as specified by separate agreement, will be offered and maintained during the life of this Agreement and all subsequent Agreements until such time as terminated by mutual agreement by both parties.

### **ARTICLE XXVIII**

#### **HEALTH AND WELFARE**

##### **Section 1. Group Medical Insurance**

- (a) The Company will continue to sponsor Group Medical for all employees and employee dependents through 31 July 2003.
- (b) Entry into the program is restricted to new hires at the time of hiring or existing employees between July 1, and July 31, of each year.
- (c) The Company will pay the first 5% of any annual premium increase; the employee will pay the next 2%. The cost of an annual increase over 7% will be shared equally (50-50) by the Company and the employee. The base premium effective July 31, 2000 will be paid 80% by the Company and 20% by the employee.
- (d) The Health Funds Trustees will notify the Company annually of any recommended increase in the health premium.
- (e) All employees covered under this agreement shall have the option of enrolling in the group medical plan as described above, or at the individual employee's option, may elect to receive thirty-four (34) cents per hour in lieu of accepting the medical coverage offered.

**Section 2. Group Life Accidental Death/Dismemberment and Weekly Accident/Sickness**

The Company will continue to sponsor Group Life, Accidental Death/Dismemberment, and Accident/Sickness Disability insurance for all employees. Any increase in Group Life, AD&D or Accident/Sickness on 1 August 2000 or 1 August 2001 will have a 3% cap and the first 3% is to borne by the Company. Any increases in excess of 3% will be borne by the employee.

**Section 3. Change of Carriers:**

During the term of this Agreement, the Company may, with the concurrence of the Union, change the Carrier or Carriers of any the insurances described in Section 1. (a) provided that the benefits provided by the plan or plans remain substantially equivalent to those currently provided.

**ARTICLE XXIX**

**DURATION**

This Agreement constitutes the entire agreement between the parties and any prior practices inconsistent with this Agreement are not binding on the Company.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement consisting of -45- pages, which has been signed on this 31st day of JULY, 2000.

The masculine gender as used herein ("he", "his", "him", "man") shall be deemed to include the feminine gender ("she", "hers", "her", "woman").

**ARTICLE XXX**  
**IBEW COPE CHECK-OFF**

The Company agrees to deduct and transmit five cents (\$0.5) per pay hour from wages of these employees who voluntarily authorize such contributions on form provided for the purpose by the appropriate IBEW, Local COPE Committee. These transmittals shall be made monthly and shall be accompanied by a list of names of those employees for whom such deductions have been made and the amount deducted for such employee. The transmittal shall be due to the Local COPE Treasurer no later than the 15<sup>th</sup> of the month following the end of each calendar month.

**DEDUCTION FORM:**

TO JOHNSON CONTROLS WORLD SERVICES, INC

I hereby authorize the Company to deduct from my pay the sum of \$.05 (five cents) for each hour worked and to forward that amount to the International Brotherhood of Electrical Workers, Committee on Political Education. This authorization is signed voluntarily and not out of any fear of reprisal and on the understanding the IBEW-COPE is engaged in a joint fund raising effort with the AFL-CIO, will use the money contributed to that effort to make political contributions and expenditures in connection with federal and state elections, and that this voluntary authorization may be revoked at any time by notifying the Company and IBEW-COPE in writing of a desire to do so. Contributions of gifts to IBEW-COPE are not deductible as charitable contributions for federal income tax purposes.

Print Name: \_\_\_\_\_

SS#: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Article XXXI  
WAGE SCHEDULE**

Section 1. The Company agrees to pay the following hourly rate for the classifications listed immediately below:

CRAFT/SKILLS 1 AUG 2000	EFFECTIVE 1 AUG 2000	EFFECTIVE 1 AUG 2001	EFFECTIVE 1 AUG 2002
LABORER, CLASS "B" MAINTENANCE	9.94	10.24	10.55
Laborer, Class "All Maintenance	10.55	10.87	11.20
PAINTER, MAINTENANCE	16.83	17.33	17.85
CARPENTER, MAINTENANCE	17.25	17.77	18.30
Rofer, Maintenance	17.25	17.77	18.30
Asbestos Worker	17.25	17.77	18.30
Insulator, Pipecover, Maintenance	17.25	17.77	18.30
Mason, Bricklayer, Maintenance	17.80	18.33	18.88
Electrician, Maintenance	17.80	18.33	18.88
Mechanic, Maintenance	17.80	18.33	18.88
Millwright, Maintenance	17.80	18.33	18.88
Water Treatment	17.80	18.33	18.88
Pipefitter, Maintenance	17.80	18.33	18.88
WELDER	17.80	18.33	18.88
Mechanic, Ref & A/C Maintenance	17.80	18.33	18.88
Sheet Metal	17.80	18.33	18.88
Rigger, Maintenance	17.80	18.33	18.88
Crane Operator, Maintenance	17.80	18.33	18.88
Machinist, Precision	18.11	18.66	19.22
PRECISION MACHINE REPAIRMAN	18.11	18.66	19.22
Technician, Ref & A/C Maintenance	18.11	18.66	19.22
Calibration Mechanic	17.80	18.33	18.88

Section 2. All permanent employees hired on or after 1 March 1989 shall receive \$.50/hour less than the above rate for 90 days.

Section 3. Temporary hires (not to exceed 120 days) and summer hires shall receive the established rate but shall not be eligible for any fringe benefits in addition to their monthly rate.

Section 4 Leadmen and shop leaders will be compensated a minimum of \$0.75 an hour above their normal rate, for at least 8 hours per incident.

Section 5 Lead Positions

- 16 It is the sole prerogative of management to select employees to lead positions and to abolish lead positions.
- 17 Lead positions will be offered to employees from the bargaining unit. The Company will select lead positions based upon ability, fitness, skill, and knowledge. The Company shall notify the Union of lead persons assigned.



- 18 Lead persons should be qualified to perform the duties for which they are responsible, in order that they may train any employee coming into their section/department and direct employees in their assignment of work, as instructed by their supervisors.
- 19 Lead persons are to work in peace and harmony with their fellow employees. They are not empowered to hire, fire, suspend or discipline, or recommend discipline for any employee. Lead persons are simply to carry out instructions as directed by their supervisors and report any problems they incur.

**FOR THE EMPLOYER:  
JOHNSON CONTROLS WORLD  
SERVICES, INC.**

**FOR THE UNION:  
INTERNATIONAL BROTHERHOOD  
OF ELECTRICAL WORKERS,  
AFL-CIO LOCAL UNION NO. 1340**

---

ROSS HETHERINGTON  
GENERAL MANAGER

---

JIM AVERY  
1340 BUSINESS MANAGER

---

WIL. RICHARD  
Manager, Human Resources

---

RAYMOND TUCKER  
1340 Chief Steward

---

Marshall Holstrom  
Manager, Central Planning & Control

---

Keith Jackson  
1340 Bargaining Committee

---

Robert E. Caldwell  
Manager, Maintenance

---

Mark Trybe  
1340 Bargaining Committee

---

STEVE BOLLMAN  
RCM Program Administrator

## APPENDIX A

### **CBA Between Johnson Controls World Services, Inc. and IBEW Local 1340 August 1, 2000**

#### **GENERAL WORK RULES**

The Employee "Standards of Conduct" Business Policy No. 11-04.1, dated August 1, 2000, is provided for your information and guidance. These rules are established to define a standard of personal conduct which is expected of every employee while on duty. A violation of any rule that merits disciplinary action will be acted upon by the Company as follows:

#### **PURPOSE**

The purpose of this policy is to provide a work environment that produces maximum efficiency, high employee morale and individual recognition. Our experience has shown that almost all employees enjoy working in such an environment.

#### **SCOPE**

Having a work environment which is based on the concept of individual dignity requires the establishment of rules and regulations to be used as guidelines for measuring conduct in individual situations.

These work rules place demand on the individual employee as well as the Company. The Company must ensure that the regulations are administered fairly and the employee must understand and abide by the standards.

When employees know and understand the work rules, there is seldom a need to impose compliance. The policy and procedures that follow details the work rules, counseling procedures (often called "Progressive Discipline") and an employee appeal process to ensure fairness.

#### **POLICY**

Management is responsible for establishing and communicating to all employees JCWS's work standards, policies, standard practices and ensuring that these standards are administered in a fair and just manner. Each situation involving employee conduct represents an individual problem, therefore, good judgment and thorough knowledge of the facts are essential for timely resolution.

All JCWS employees are responsible for maintaining acceptable conduct while on the job. In the event an employee's conduct falls below acceptable standards, the employee will be counseled and may be subject to disciplinary action.

To maintain an effective policy, investigations must remain objective. When a breach of standards occurs, the manager will thoroughly investigate and review all relevant facts and allow the employee to explain his/her conduct. The eventual decision must be based on a fair investigation, in which the employee has had ample opportunity to be heard. In addition, the decision should be consistent with similar situations that have been resolved in the past. Accurate and complete records of events, conversations and results which occur during this process must be kept.

In the event the employee, the employee's management and Industrial Relations cannot agree on a solution to the concern, the employee may submit the issue to the General Manager or the Manager, Administration for final resolution.

#### **TYPES OF DISCIPLINARY ACTIONS**

The type of action is determined by the Severity of the offense. In most cases, the following steps should be used:

**Oral Warning.** If, after counseling, and employee's conduct warrants an oral warning, the supervisor shall document the warning for his record only. It is the responsibility of the supervisor to make clear to the employee the following:

- The intent to discuss employee breach of standards
- The conduct giving rise to the warning
- Positive steps to be taken by the employee to avoid further management action.

### **Written Warning**

An employee's immediate supervisor shall explain to the employee the conduct giving rise to the written warning and specify whether or not this is a repeat violation. The written warning will be on the Notice of Disciplinary Action form and may be accompanied by any other written record.

### **Disciplinary 90-Day Review**

When the employee's conduct has violated JCWS Policies, Rules of Conduct or Standard Practices and the employee is placed on a review for a period of ninety (90) days, known as a "90-Day Review," a copy of the Notice of Disciplinary Action form shall be completed. Once every thirty (30) days, the supervisor will meet with the employee and evaluate his performance. All reviews shall be documented.

### **Suspension**

When an employee is suspended from work without pay or ineligible for other compensation, the employee shall be informed verbally and a Notice of Disciplinary Action form will be completed. The form shall document the suspension action and specify, in detail, the violation which led to the suspension.

### **Termination**

Employees may be terminated for just cause and, when such action occurs, it shall be documented on the Notice of Disciplinary Action form. Termination cannot be implemented until reviewed with Industrial Relations.

### **Emergency Suspension**

This type of suspension may be made pending further investigation when the employee's conduct or action presents a significant danger to the safety and welfare of others, may severely impact the department's operational status or appears to have violated rules of conduct to an extent possible necessitating termination.

### **CAUSES FOR ACTION**

Commission of any of the following infractions will normally be considered grounds for immediate discharge:

- Failure to report Company or Government vehicle accidents promptly and properly.
- Theft, including the unauthorized use or removal of Company, Government or a fellow employee's property.

- Engaging in or fostering espionage, sabotage or other criminal activity.
- Selling, or offering for sale, narcotics or restricted, dangerous drugs.
- Refusing to take blood alcohol and/or alcohol Breathalyzer test, or test results that reveal the person is intoxicated as substantiated by Virginia Law.
- Possessing, using, or being under the influence of narcotics or restricted, dangerous drugs on or when trying to enter Government or Company controlled property. This prohibition does not apply when such drugs are prescribed or administered by a licensed physician.
- Possessing, using, or being under the influence of alcohol on or when trying to enter Government or Company controlled property, during normal duty hours.
- Convictions of any felony offense. This rule does not apply when sentencing for the offense specifies adjudication of guilt is withheld.
- Failure to be granted an Unescorted Access Authorization (UAPRP) for ADP work areas when such is required, and/or secret clearance within 180 calendar days from the date of employment.

Any of the following may be grounds for disciplinary action ranging from a warning or reprimand to discharge:

**Conduct on the Premises**

- Improper conduct on Government or Company controlled property.
- Fighting, practical jokes or horseplay.
  - Using threatening, abusive or profane language.
- Gambling.
- Acceptance of anything of monetary value from any supplier, customer or other contractors or prospective contractors, or their representatives.
- Using, disseminating, or permitting the use of any privileged information acquired during employment with the Company or in the work for the Company's customers for personal gain or other improper use.
  - Sleeping on the job.
  - Insubordination.
- Falsification of operational data, Personnel Security Questionnaire forms or any other Company records.
- Repeated tardiness, unexcused absences, abuse of sick leave privileges, or failure to notify supervision promptly when unable to report to work.
  - Leaving the plant or work assignment during working hours without prior supervisory permission.
- Outside employment or other outside activity not compatible with the full and proper discharge of the employee's position with the Company.

- Violation of Company-approved procedures for accomplishing work.

### **Acts of Discrimination or Sexual Harassment**

- Acts of discrimination based upon race, creed, color, religion, sex, age, national origin, or disability.
- Sexual harassment.
- Acts of retaliation against an employee in connection with complaints of discrimination.

### **Safety Rules and Regulations**

- Failure to observe rules and regulations.
- Disobeying safety rules or instructions given in the line of duty by LARC Safety Officers, civil defense personnel, supervisors, or other proper authorities in emergencies.
- Failure to use provided safety equipment.
- Failure to report on-the-job injuries or accidents, or to follow instructions for treatment of injuries.
- Disobeying nonsmoking or non-eating signs; smoking in posted nonsmoking areas.
- Reckless or negligent operation of Government or private vehicles on Government or Company controlled property or while on Company business.

### **Securing and Safeguards Regulations**

- Violation of Security or Safeguards regulations.
- Disclosure of classified matter or information to unauthorized persons.
- Failure to observe the established regulations regarding the protection of such classified matter or information against accidental or deliberate disclosure to unauthorized persons.
  - Lending, borrowing or altering a security identification device (badge).
- Unauthorized entry into restricted areas or allowing unauthorized individuals into restricted areas.
- Possessing firearms or other weapons, explosives, cameras, special viewing devices or radio transmitters on Government or Company controlled property without the proper permits.
- Convictions of misdemeanor offenses not compatible with the full and proper discharge of the employee's position with the Company.
- Refusal to permit the search of packages, lunch boxes, briefcases, purses, etc., upon request of authorized individuals.

### **Misuse and/or Misappropriation of Government Property and Funds**

- Misuse or unauthorized use of Government or Company controlled property, material, equipment, funds, or other property including scrap or salvage.

- Misuse, loss, theft, or unauthorized modification of Company or Government computer systems, programs or data bases. This includes hardware, software, communications links and computer time.
  - Working on unauthorized projects on Government or Company controlled premises.
- Performing any rework, repair, or modification on any materials or items without the proper authorization.
- Removal of Quality status stamps, tags or documents, and/or the use of any materials or parts that have been rejected by Quality.
  - Using Company time for non-Company work.
  - Using equipment, tools, stationery, or official vehicles for personal purposes.
  - Misusing or abusing telecommunications equipment or services.
- Misappropriating materials, funds, or services by falsifying such documents as timecards, travel invoices, purchase orders, etc., or by any other direct or indirect means.

### **ABSENCE AND TARDINESS**

Paid sick leave is an insurance policy to protect the employee's wages in case of an emergency. Sick leave should be used only for the intended purpose.

Since abuse of absenteeism or tardiness increases costs, creates an undue hardship on fellow employees and limits ability to effectively plan and accomplish goals, the following policies and guidelines have been developed to help reduce absenteeism and tardiness.

Supervision must understand and explain Company policies and procedures to their subordinates. Supervisors at every level will be responsible for maintaining attendance records for employees. Since inconsistency causes problems when counseling or disciplinary action is necessary, Industrial Relations will monitor actions to assure consistency.

In an effort to monitor absenteeism and tardiness, the following guidelines should be adhered to:

- Accurate records of all nonproductive time should be recorded for each employee.
- As soon as an employee returns to work from sick leave or tardiness, the supervisor should take a few minutes to informally speak to the employee.
  - Deal with each absence immediately, whether or not the absence was expected.
- When an employee's record indicates that he is having a problem or might be abusing sick leave, it is time for a counseling session. In such circumstances, a written warning may be necessary.
  - If disciplinary action is taken, it must be based upon detailed records.
- Absenteeism should be evaluated giving consideration towards the understanding of any sick leave due to unusual circumstances, such as major medical problems.
- If an employee has been out in excess of thirty (30) hours within a six (6) month period or if this employee's record shows a pattern of absence abuse, the employees should be considered for

immediate counseling. Absenteeism due to major medical problems should be evaluated on a case-by-case basis.

## **PROGRESSIVE DISCIPLINE**

### **Counseling**

Whenever there is an irregularity in attendance, the supervisor should, prior to progressive discipline, meet with and counsel the employee as to his obligations. Listed below are the items to be discussed:

- The recent absences leading up to the counseling session.
  - The Company's concern and willingness to help if there is a problem.
- Positive steps to be taken by the employee to preclude the need for future disciplinary action.
- Convince the employee that they do make a difference in their respective department, in that satisfactory attendance is one of their primary responsibilities.
- Explain to the employee how his absence can affect others when not at work, such as disruptions of work schedules, problems encountered by employee who fills in, etc.

### **Step 1 - Oral Warning**

When patterns of absence or tardiness begin to surface or when an employee approaches thirty (30) hours of absenteeism within a six (6) month period, an oral warning should be initiated and documented as a "Memo for Record." The minimum responsibilities of the immediate supervisor are as follows:

- The absenteeism record leading up to the counseling. This should be completely up-to-date.
- The Company's concern and willingness to help if there is a bona fide problem.
- Positive steps to be taken by the employee to avoid further disciplinary action.
- Convince the employee that they do make a difference in their department and that satisfactory attendance is one of their primary responsibilities.
- Explain to the employee how his/her absence can affect others when not at work, such as disruptions of work schedules, problems encountered by employee who fills in, etc.

### **Step 2- Written Warning**

When an employee fails to take the necessary action to correct his attendance following an oral warning, it may be necessary to issue a Notice of Disciplinary Action to substantiate formal counseling. Such action is designated as a written warning.

### **Step 3 - Written Warning with 90-Day Review Period**

When an employee continues to be tardy or absent from the job, the employee may be placed on a review for a period of ninety (90) days, known as a "90-Day Review." The following information shall be contained in the Notice of Disciplinary Action form:

- Clear, concise, and explicit information explaining the terms of the 90-day period and the consequences that could result if the employee continues with lost time during this period. At this point, the employee should also be advised that the next step could be termination.

- Once every thirty (30) days, the supervisor will sit with the employee and evaluate his performance. Each evaluation shall be documented, and copies shall be sent to the employee and Industrial Relations (if the involved employee is represented by a bargaining unit) or Industrial Relations (if the involved employee is non represented).

#### **Step 4 - Termination**

When an employee fails to correct his/her problem through whatever means necessary, the next step is termination.

#### **NOTICE OF DISCIPLINARY ACTION FORM**

The JCWS Notice of Disciplinary Action Form will be used to document all formal disciplinary actions.

#### **Explanation of the form items:**

- **Nature of Charge.** Use a short title for the offense, (i.e., excessive tardiness, neglect of duty, possession of intoxicating liquor, etc.).
- **Detailed Description of Offense.** Record the specific facts supporting the charge. Details must be factual, objectively stated, and supportable under scrutiny.
- **Adverse Effect on the Safety or Welfare of Others.** Will be indicated when, for example, fighting or negligent horseplay.
- **Adverse Effect on the Performance of Required Work.** Will be indicated when, for example, there is excessive absenteeism or tardiness.
- **Comments.** May be used to further explain to an employee the effect or severity of the offense.

#### **APPROVAL CYCLE**

The initiation of a Notice of Disciplinary Action form is the responsibility of the employee's immediate supervisor. Before disciplinary actions are placed into effect, the manager requesting such action shall communicate with and obtain the concurrence signature of the Manager, Human Resources, and the appropriate Branch Manager/Manager or his designee. All terminations or suspensions shall be discussed with the Manager, Human Resources, and any notice documenting the termination of any employee will require the signature of the Manager, Human Resources.

The highest level for concurrence of written warnings, probation and suspension actions is the appropriate Supervisor and the Administrative Manager or his designee. Once the concurrence cycle has been completed, the parties indicated on the bottom of each form shall receive appropriate copies. All terminations or suspensions shall first discussed with the "Manager, Human Resources," or his designee, and any notice documenting the termination of an employee will require the signature of the Manager, Human Resources. Employees being considered for this type of action may be placed on emergency suspension pending approval of planned actions.

Before written warnings, probations, suspensions or terminations are placed into effect, the Supervisor requesting such action shall communicate with the Manager, Human Resources, or his designee, to discuss such action prior to implementation.

#### **ADMINISTRATION OF POLICY**



A progressive sequence of disciplinary action is to be taken based upon the severity of an offense. The least severe offenses result in oral warnings; the most severe offenses result in terminations.

If and when an employee is placed on a "90-Day Review," his/her conduct or performance becomes critical to continued employment. Any additional violations during this period will result in more serious disciplinary action, regardless of the fact that the additional violation itself may not mandate a suspension or termination.

Such judgments are necessary for successful application of the disciplinary policy. It is of the utmost importance that disciplinary actions not only be justified, but also that they are administered in an evenhanded fashion, which treats equally all who have committed the same type of offense. Employees on a "90 Day Review" shall have their conduct and performance evaluated by their immediate supervisor not less than once every thirty (30) days during said period.

Each evaluation shall be documented with copies sent to the employee and the Manager, Human Resources. Applicable provisions of collective bargaining agreements are not altered by this procedure. The chart below, although not absolute or exhaustive, some causes that may justify disciplinary action. It also indicates the type of counseling and severity of action that could be taken based upon the frequency, facts and severity of the offense. These guidelines should be adhered to as closely as possible.

<u>Incident</u>	<u>Oral Warning</u>	<u>Written Warning</u>	<u>90-Day Review</u>	<u>Susp.</u>	<u>Term.</u>
Harm to Person or Property					First
Sleeping on the Job					First
Falsifying Information					First
Theft					First
Drugs & Intoxicants					First
Insubordination					First
Espionage, Sabotage or Criminal Activity					First
Improper Conduct				First	Second
Safety Infractions				First	Second
Security Infraction			First		Second
Excessive Absence/ Tardiness	First	Second	Third		Fourth

APPENDIX B

MEMORANDUM OF UNDERSTANDING

Between Johnson Controls World Services and IBEW Local 1340

The purpose of this memorandum is to establish a rate of pay for the high voltage, maintenance electrician classification and to set seniority guidelines for the Electrical Job Family.

All of the classifications listed below will be considered one Job Family. The Electrical Job Family will consist of two different job classifications but will continue to have one seniority list. The High Voltage Maintenance Electricians will have their own job classifications due to the specialized skills required in that area. Listed below is a new rate and details for the Electrician, Maintenance High Voltage classification. All other provisions of the collective bargaining agreement will remain in effect and apply to the new classification.

Electrician, Maintenance  
Electrician, Maintenance High Voltage \*

\* Rate = \$1.50 above Electrician, Maintenance

The Electrician, Maintenance High Voltage is expected to be on call at all times for customer and company needs. At least one employee in the department will be expected to carry a pager at all times and respond to any calls they may receive on behalf of the company or customer. Pay for on call duty is included in to the hourly rate and no further compensation will be made.

Maintenance Electricians shall be used, at the Company's discretion, as standby to work with the current high voltage, maintenance electricians. Upon becoming certified at 115KV or more an electrician working within the classification of high voltage will be compensated at the appropriate rate.

Agreed to:

\_\_\_\_\_  
Wilmar J. Richard, Manager  
Human Resources

\_\_\_\_\_  
Jim Avery, Business Manager  
IBEW Local 1340

\_\_\_\_\_  
Date

\_\_\_\_\_  
Raymond Tucker, Chief Steward  
IBEW Local 1340

APPENDIX C

James Avery  
IBEW Local 1340

July 27, 2000

Based on agreements made in contract negotiations, the Company and Union will establish a Technician classification.

This classification will be open to all trades and will be based on advanced skills, training, etc.

The classification will also carry an increased pay grade.

The Company and Union have both committed to this program and will proceed to its establishment as soon as possible.

Wil J. Richard

Johnson Controls, Inc.  
2 East Ames Street  
Building 1199, Mail Stop 485  
NASA Langley Research Center  
Hampton, VA 23681-2199  
Telephone (757) 864-5871



Memorandum of Understanding  
Between Johnson Controls Langley  
&  
IBEW Local 1340

The purpose of this memorandum is to correct an oversight. The agreed upon rate for the Shop Leaders in the recently concluded negotiation was omitted in error.

The rate for Shop Leaders shall be up to 110% of the hourly rate under their direction.

**Agreed to: 08/17/00**

Wilmar J. Richard  
Manager, Human Resources

James W. Avery  
IBEW Local 1340 Business Manager

**MAINTENANCE AGREEMENT**

**BETWEEN**

**JOHNSON CONTROLS WORLD SERVICES, INC.**

**AND**

**INTERNATIONAL BROTHERHOOD OF  
ELECTRICAL WORKERS,  
AFL-CIO**

**LOCAL UNION 1340**

**AUGUST 1, 2003 - JULY 31, 2005**

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**A G R E E M E N T  
B E T W E E N**

***Johnson Controls World Services, Inc.***

**AND**

**INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO  
LOCAL UNION NO. 1340**

**PREAMBLE**

THIS AGREEMENT entered into this 1st day of August 2000 by and between Johnson Controls World Services, Inc., Inc (hereinafter referred to as the "Company"), and Local Union No. 1340, of the International Brotherhood of Electrical Workers, AFL-CIO, (hereinafter referred to as the "Union"), for the purpose of all maintenance work assigned to the Company by the National Aeronautics and Space Administration, (hereinafter referred to as "NASA"), under the Facility and Equipment Support Services (FESS) Contract and performed by the employees of the Company covered by this agreement only within the NASA Langley Research Center (Station) site and sites and properties related thereto.

WHEREAS, the Company is engaged in the business of maintenance (as defined in Article V) and this work is of importance to the Union, and it being recognized that there is a difference in the conditions required to perform this type of work, the Union and the Company wish to enter into an agreement for their benefit covering work of this nature.

WHEREAS, the Union has in their membership within the area, members competent and Qualified to perform the work of the Company.

WHEREAS, the Company now employs members of the Union on maintenance work recognized by the Union.

WHEREAS, the Company and the Union desire to mutually establish hours of work and working conditions for the workers to the end that satisfactory conditions and harmonious relations will continue to exist for the benefit of both parties to this Agreement.

WHEREAS, the Company and the Union agree that, due to particular nature of the work covered by this Agreement, there shall be no lockouts or strikes during the life of this Agreement, and provisions must be made to achieve this end.

The Union, its members and all of those employees represented by the Union, agree to use its and/or their best endeavors to protect the interest of the Company, to consider the Company's property and to give service and/or work of the highest productive quality.

The Company and the Union have a common sympathetic interest in the maintenance industry. Therefore, a working system and harmonious relations are necessary to improve the relationship between the Company, the Union and the Public. Progress in industry demands a mutuality of confidence between the Company and the Union. All will benefit by continuous peace and by adjusting any differences by rational, common sense methods.

NOW, THEREFORE, in consideration of the mutual promises and agreements herein contained, the parties hereto agree to as follows:

#### *ARTICLE I*

### **TERM OF AGREEMENT**

**Section 1.** This Agreement shall take effect August 1, 2000 and shall remain in effect through July 31, 2003 and shall continue in effect from year to year thereafter, unless changed or terminated.

**Section 2.** Either party desiring to change or terminate this Agreement must notify the other in writing at least sixty (60) days prior to August 1, 2003. When Notice for changes only is given, the nature of the changes desired must be specified in the Notice and until a satisfactory conclusion is reached in the matter of such changes, the original provision shall remain in full force and effect. Neither party hereto may reopen



this Agreement for negotiations on any issue, either economic or non-economic, during this contract period or any extension thereof, except as provided in Section 3 below.

**Section 3.** This Agreement shall be subject to amendments at any time by mutual consent of the parties hereto. Any such amendment agreed upon shall be reduced to writing and signed by the parties hereto. The Union may submit the amendments to the International Office of the Union, as it relates solely to compliance with State and Federal regulations.

## **ARTICLE II**

### RECOGNITION

**Section 1.** The bargaining unit under this Agreement shall comprise all maintenance employees of the Company now employed or in the future for maintenance work at the NASA Langley Research Center (Station).

**Section 2. The Company:**

- (a) Agrees to recognize the Union as herein duly constituted for the purpose of bargaining collectively and administering this Agreement for the employees.
- (b) Agrees to bargain collectively with the Union and to be governed by the terms of this Agreement.

### *ARTICLE III*

#### MANAGEMENT RIGHTS

The Union recognizes that the Company retains the sole right to manage its business, as such right existed prior to the execution of this agreement except only as expressly abridged by a specific provision of this Agreement. The Company reserves and retains, solely and exclusively, all of its inherent rights to manage the business including but not limited to, the direction of the working force including the right to hire, assign, suspend or discharge for just cause and to make rules governing the conduct of

the working force which will be applied in a reasonable fashion. The Company and Union, by mutual agreement, may change or add to the General Work Rules contained in this Agreement.

The Company has a vital interest in maintaining safe, healthful and efficient working conditions for its employees. Being under the influence of alcohol or drugs (illegal or prescribed) on the job may pose serious safety and health risks not only to the user but to all industrial equipment vehicles and other employees. The possession and use, distribution or sale of an illegal substance or alcohol in the work place shall not be tolerated and may result in termination and prosecution. The Company recognizes that its own health and future are dependent upon the physical and psychological health of its employees. Accordingly, it is the right, obligation, and intent of the Company to maintain a safe, healthful, and efficient working environment for all of its employees and to protect Company/NASA property, equipment, and operations.

The Company and the Union agree to the need for a drug and alcohol program. The Company will develop and present such a program to the Union in compliance with State, Federal and NASA regulations.

*ARTICLE IV*  
UNION SECURITY

It is agreed that all employees coming under the terms of this Agreement shall be required to make application to joining the Union within thirty (30) days of employment or Agreement, whichever is later, and as a condition of continued employment, must maintain membership for the life of this Agreement and any renewal thereof. In the event the Union requests the contractor to dismiss an employee to comply with the provisions of this Article, such request shall be complied with by the contractor. The Union will notify all current and new-hire employees of their rights under Union security.

*ARTICLE V*

## SCOPE OF WORK

**Section 1.** This Agreement covers all maintenance work assigned to the Company by NASA under the Facility and Equipment Support Services Contract and performed by the employees of the Company covered by this Agreement only with the NASA, Langley Research Center (Station) site and sites and properties relating thereto.

## *ARTICLE VI*

### DEFINITIONS

Maintenance is defined as any work assigned by the Company which is consistent with the terms of the Company's Facility and Equipment Support Service Contract with NASA for the purpose of preserving NASA's facilities and wind tunnels in suitable working condition. Said work will be consistent with the Company's obligation to perform any such work under the Service Contract Act.

## *ARTICLE VII*

### GRIEVANCE PROCEDURE

**Section 1.** All grievances that may arise will be handled in the following manner. Any written grievance must be filed within five (5) working days of the event given rise to the grievance. In cases involving dismissal or suspension for just cause, the grievance may be instituted at Step III.

**STEP I:** Prior to processing any written grievance, any employee who believes he has a grievance, must discuss it with his immediate supervisor, upon his request he may have his steward present. If the employee is dissatisfied with the answer given by his supervisor, or no answer is given within three (3) normal work days, Step II will be followed.

**STEP II:** The Employee, and his steward shall present to the immediate Supervisor a written grievance form provided by the Company (which has been

approved by Company and Union) stating what the grievance is, and the remedy sought. If the Supervisor's decision is not satisfactory, or is not given within three (3) normal work days, Step III will be followed.

**STEP III:** The grievance shall be forwarded by the Union steward to the Manager, Human Resources or his designated representative within three (3) normal work days after the Supervisor's unsatisfactory written decision, or failure to give a decision. The Manager, Human Resources shall meet with the Local Business Manager, or his designated representative, within three (3) days of receipt of grievance. If the Manager, Human Resource's decision is not satisfactory, or is not given within five (5) normal work days, Step IV will be followed.

**STEP IV:** The Union may, no later than five (5) working days after receipt of the Company's decision in Step III, submit the matter to arbitration by requesting that the Federal Mediation and Conciliation Service submit a list of five (5) names of arbitrators, from which the Company and the Union shall choose an impartial arbitrator to decide the matter. Following receipt of the list of names of arbitrators, the parties shall then alternately strike the names from the panel and the name remaining shall be the Arbitrator in the case. The determination of which Party is to strike first shall be determined by a coin flip. Striking shall take place within seven (7) days of receipt of the arbitrator list.

**Section 2.** In arbitration proceedings, the expense of the impartial Arbitrator shall be shared by both parties.

**Section 3.** The Company shall attempt to provide facilities at Langley Research Center (Station) provided, however, if no facilities are available at the Center, the Union and Company agree to equally share expenses incurred in the hearing room.

**Section 4.** The findings of the Arbitrator shall be binding on both parties.

**Section 5.** All time limits stated in this Article shall be treated as jurisdictional in nature, and the failure to follow any of the set time limits shall result in the grievance being void and waived, and the matter shall end without resort to arbitration. A normal work day is defined as any day on which any bargaining unit employee is at work, Monday through Friday, excepting holidays.

**Section 6.** Except by mutual written agreement to the contrary, only one grievance shall be taken to arbitration at any time before the same Arbitrator.

**Section 7.** The impartial Arbitrator shall only have jurisdiction and authority to determine the meaning, application of, or compliance with the provisions of this Agreement and shall not have jurisdiction or authority to add or detract from or alter in any way such provisions or any rules of discipline attached hereto.

*ARTICLE VIII*

UNION REPRESENTATIVES

**Section 1.** Representatives of the Union shall have access to the job during working hours on Union business. They shall, as regulations on the site permit, obtain specific authorization for each visit from the Company when required.

**Section 2.** The Union has the right to appoint a Chief Steward and two shop stewards at the Company. The Company shall be notified and furnished the name of the Stewards in writing. The Company will deal with any such designated Steward until such designated Steward has been revoked in writing by the Union. Such Steward shall after coordinating with his supervisor be allowed reasonable time during the regular working hours, without loss of pay, to see that the terms and conditions of this Agreement are observed. In no event shall the presence of the Steward disrupt or interfere with the work of the Company. No Steward shall be discriminated against by the Company because of his faithful performance of duties as Steward.

The Steward shall be given preferential seniority provided he/she has been performing the steward duties for six (6) consecutive months and has not less than twelve (12) months seniority.

*ARTICLE IX*

REFERRAL OF EMPLOYEES

**Section 1.** When employees are required, the Company shall request from the Local Union that the required number of applicants be referred for employment. The following standards shall apply:

(a) The selection of applicants for referral to jobs shall be on a nondiscriminatory basis and shall not be based on, or in any way affected by Union membership, by-laws, rules, regulations, constitutional provisions, or any other aspect of obligation of Union membership, policy, or requirement. Local Union 1340, International Brotherhood of Electrical Workers, does accept application for referral to the Maintenance Project covered by this Agreement regardless of race, color, sex, handicap, national or ethnic origin. It does not discriminate on the basis of race, color, sex, handicap, national or ethnic origin in the referral of applicants.

(b) The Company shall retain the right to select or reject any applicant referred by the Local Union, and shall have the further right to select any applicant from among those referred by the Union. When the Company requests an applicant or referral from the Union, the Union will refer such applicant within forty-eight (48) hours [two (2) working days] and in the event the Union fails to refer an applicant within that period of time, the Company is free to utilize other sources to fill its manpower needs.

(c) The Local Union shall post in places where notices to employees and applicants for employment are customarily posted, all provisions relating to the function of its hiring arrangements, including the provisions herein set forth. The Company shall similarly post in places where notices to employees and applicants for employment are customarily posted, all provisions relating to the function and operation of the hiring arrangements including these provisions.

(d) The Union agrees to indemnify and hold the Company harmless against any and all claims, demands, suits, costs and/or any other forms of action and assumes any and all liabilities and expenses that shall arise out of or by reason of the Union's administration of the hiring hall referred to in this Article. It is also expressly understood that those applicants that are referred by the Union will be selected on a nondiscriminatory basis and

that the Company shall assume the liabilities that attach for failure to hire an applicant referred by the Union.

- (e) The Union agrees to recognize the Company's Affirmative Action Program and will refer qualified job applicants according to established under utilization goals.

**Section 2.** In addition to the foregoing minimum standards, the Local Union agrees to refer all applicants for employment to this project according to the standards for criteria uniformly applied to any project in the area. All exclusive referral procedures must establish Appeal Boards and the Company and the applicable Local Union agree to be bound by all decisions of the Appeal Board.

**Section 3.** The Company agrees to be bound by the hiring practices in the local area not inconsistent with the terms of this Agreement, provided that, where the hiring provisions or practices that prevail in a local area are on other than an exclusive basis, such provisions or practices shall be applicable if not in violation of either State or Federal law.

**Section 4.** The designation and determination of the number of Supervisors and other supervisory personnel is the responsibility of the Company.

**Section 5.** The above hiring provisions have been entered into in order to comply with the Mountain Pacific doctrine of the National Labor Relations Board. Upon any Board or court decision or administrative ruling modifying or changing the Mountain Pacific doctrine, either party to this Agreement shall have the right to re-open negotiations pertaining to this Article by giving the other party thirty (30) days written notice.

## **ARTICLE X**

### **WAGES**

**Section 1.** Wage rates set forth in Appendix "A" attached hereto, and made a part hereof, are to be paid to those employees listed under Appendix "A" for the term of this Agreement.

**Section 2.** Wages will be paid weekly by means of direct deposit or by check to be delivered to the job site. The payroll period to close at midnight on Thursday.

**Section 3.** The Company agrees to make available to all employees United States Savings Bonds through payroll deduction.

**Section 4. Working and Basic Dues Check-off:**

THE COMPANY AGREES THAT IT WILL MAKE UNION WORKING DUES DEDUCTIONS FROM THE PAY OF ALL MEMBERS WORKING UNDER THE TERMS OF THIS AGREEMENT PLUS WEEKLY UNION DUES ON THE BASIS OF INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS ON THE FORM SET OUT BELOW IN SECTION 5. THE COMPANY WILL MAKE THESE DEDUCTIONS WEEKLY AS DESIGNATED IN THE INDIVIDUALLY SIGNED PAYROLL DEDUCTION AUTHORIZATIONS. THE EMPLOYER WILL PAY THE AGGREGATE OF SUCH TO THE FINANCIAL SECRETARY OF THE UNION, WHO SHALL BE AUTHORIZED TO ISSUE A RECEIPT IN THE AMOUNT OF THE CALENDAR DEDUCTIONS. THE COMPANY SHALL SEND A MUTUALLY AGREED NUMBER OF COPIES OF A FORM FURNISHED BY THE UNION WHICH SETS FORTH THE EMPLOYEE'S NAME, SOCIAL SECURITY NUMBER, THE NUMBER OF CLOCK HOURS WORKED, AND THE EMPLOYEE'S GROSS EARNINGS FOR THE CALENDAR MONTH, AND SAID COPIES WILL BE EXECUTED TO COVER THE AGGREGATE NUMBER OF WEEKLY PAYROLLS IN EACH CALENDAR MONTH. THE CHECK AND/OR RESPECTIVE MONIES SHALL BE TRANSMITTED NOT LATER THAN FIFTEEN (15) DAYS AFTER THE END OF THE MONTH FOR WHICH DEDUCTIONS ARE BEING MADE.

**Section 5. Deduction Form**

TO: JOHNSON CONTROLS WORLD SERVICES, INC. - (EMPLOYER)



I hereby authorize and direct you to deduct Union working dues weekly from my pay, plus monthly basic Union dues, both amounts of which are to be determined by the Local Union by-laws and the IBEW Constitution and to forward same monthly to the Financial Secretary of the Union in accordance with the Agreement between the Union and the Company. This deduction shall be made from all wages earned by me while working in the jurisdiction of Local Union 1340, IBEW.

This authorization is voluntarily made in order to pay my fair share of the Union's cost of representing me for the purposes of collective bargaining, and this authorization is not conditioned on my present or future membership in the Union.

This authorization and direction shall be irrevocable for a period of one (1) year from the date hereof or until the termination date of present Agreement, whichever is sooner, without regard to whether I am a member of the Union during that period, and I agree that this authorization shall be automatically renewed and irrevocable for successive periods of one year unless revoked by written notice to you and the Union within the ten (10) day period prior to the anniversary of this authorization. I understand that under current law the payments covered by this authorization are not deductible as charitable contributions for federal income tax purposes.

Name (printed) \_\_\_\_\_ Signature \_\_\_\_\_

Date: \_\_\_\_\_ Social Security Number: \_\_\_\_\_

## ARTICLE XI

### *DAY WORK CONDITIONS*

**Section 1.** Eight (8) hours per day shall constitute a standard workday normally between the hours of 7:00 am and 3:30 PM. Forty (40) hours per week shall constitute a week's work, Monday through Friday, inclusive.

**Section 2.** All time worked before and after the established work day of eight (8) hours, Monday through Friday, and all time worked on Saturday shall be paid for at the

rate of time and one half (1 1/2). All time worked on Sundays and the Holidays stated in Article XIV shall be paid for at the rate of time and one-half (1 1/2).

**Section 3.** By mutual consent of the Company and the Union, the starting and quitting times of any shift, including day work, may be permanently changed.

**Section 4.** Employees called back to work after the conclusion of their regular shift hours shall be compensated for a minimum of three (3) hours at the appropriate overtime rate regardless of whether the employee is required to work the entire three (3) hours. In addition, any employee called back to work after his regular shift hours shall be promptly excused upon completion of the job which he was called in to perform.

**Section 5.** Overtime Distribution Policy

a) Purpose

The Company will make every reasonable effort to divide work among the employees in each Department by classification and shift as impartially as is practicable. In doing this it is recognized that the Company will take into account the qualifications of employees for the job to be done and the efficient operation of the Department.

b) Procedures

Step I In assigned overtime, employees shall perform the overtime work required. Employees actively working the task requiring overtime shall perform the overtime work required. In the event of extenuating circumstances and an employee is unable to perform overtime work assigned, the overtime assignment shall be referred to following overtime policy.

Step II Employees will be selected for the overtime on the basis of the lowest overtime credited hours, provided they are qualified to perform the work.

Step III The necessity for the Company to work overtime to provide rapid response to emergency overtime is recognized in order to meet maintenance and

service requirements. It is expected that employees will continue to cooperate in working overtime for Company and employee best interests. If there is insufficient number of employees to perform required work, employees will be selected on the basis of their ability to perform the job in the reverse order of seniority. The least senior qualified person will be required to perform the needed work.

c) Scheduled Overtime

Employees who do not want to be considered for overtime work will declare that fact and it will be so designated by the Supervisor. These employees will be credited as having the highest overtime, plus one hour, in their department and classification.

d) Emergency Overtime:

Emergency overtime will be equitably distributed when possible. Emergency overtime will be recorded separately, but included in the total overtime hours.

e) New Hires

On the hire date the new employee will be credited with the highest overtime hours, plus one hour in the department and classification for distribution purposes.

f) Record Keeping

A written record of overtime worked by employees in each Department will be maintained by the employee's Supervisor. The overtime record will indicate the employee's name and the date. Employees will be credited with overtime worked by recording the actual number of hours worked. Employees unable to work overtime when requested, shall be deemed to have worked the overtime hours actually worked on the task for the distribution of overtime purposes.

g) Improper Overtime

Should the Company and the Union determine that the employee was improperly denied overtime opportunities, the Company shall provide the employee with future available scheduled overtime, provided the employee is qualified for the job to be done and it does not disrupt the efficient operation of the department. This does not apply to the emergency overtime.

g) Time Sheets

This policy is for distribution of overtime hours worked. For pay purposes overtime hours are the hours recorded on the time sheet.

h) Implementation of Policy

Supervisors will record overtime records to the Overtime Distribution Records for. The recording on the Overtime Distribution for will start from zero hours, effective 1 August 2000.

**Section 6.** Full time regular Employees terminated by reason of lay-off shall be notified at least two (2) weeks prior to such termination date. Employees who are laid-off or discharged will be paid all monies due by the end of the next pay period, providing all indebtedness and obligations to the Company by the employee are satisfied.

**Section 7.** Any employee showing up on time for work on a regular scheduled work day Mon-Fri, not having been previously notified to report to work, but to whom no work is provided shall receive two (2) hours of pay for show-up time. Employees may be required to stay on the job for the duration of the show-up period.

*ARTICLE XII*

TEMPORARY SHIFT WORK CONDITIONS

**Section 1.** When so elected by the Company, multiple shifts consisting of no less than eight (8) hours may be worked. When two day shift (2) or three (3) shifts are worked, the first or day shift shall normally be established on an eight (8) hour basis, 7:00 am to 3:30 pm; the second shift shall normally be established on an eight (8) hour basis, 3:15 pm to 11:45 pm; and the third shift shall normally be established on an eight (8) hour basis, 11:30 pm to 8:00 am.

**Section 2.** The pay for the second shift shall be straight time plus eight (8.0) percent; and the third shift rate of pay shall be straight time plus ten and one half(10.5) percent.

**Section 3.** All time worked before and after the established shift hours in any twenty-four (24) hour period, Monday through Friday, inclusive, and all time worked on Saturdays shall be paid at the rate of time and one-half (1 1/2) All time worked on Sundays and Holidays shall be paid at the rate of time and one-half (1 1/2). Employees scheduled to work on a Saturday, Sunday, or Holiday should be guaranteed a minimum of three (3) hours work at the appropriate overtime rate.

**Section 4.** Night Shift Rotation: Any second or third shift work shall be on a voluntary basis.

The most senior qualified employee that volunteers shall have first priority. If there are no volunteers, the least senior employee shall be put on the above shift work, which shall be rotated every thirty (30) days. There shall be five (5) working days advance notice given for scheduled night shift work, except in cases of emergency. If employees volunteer for shift work this does not relieve them of their normal scheduled rotation.

(This section does not apply to employees who have permanently volunteered or have been permanently hired for the night shift. Provided this does not restrict the Employer for assigning said employees to a different shift according to the above procedure.)

ARTICLE XIII

**PERMANENT SHIFT WORK CONDITIONS**

**Section 1.** The permanent shift rate premium for the afternoon shift will be straight time plus Eight (8.0) percent, and the permanent shift rate premium for the night shift will be straight-time plus ten and one half (10.5) percent.

**Section 2.** The standard workday shall be eight (8) hours of continuous employment excluding lunch period. Forty (40) hours per week shall constitute a week's work. All time worked in excess of eight (8) hours per work day and all time worked on either one of the two scheduled off days shall be paid for at the rate of time and one-half (1 1/2). If both of the scheduled days off are worked, the first day shall be paid at the rate of time and on-half (1 1/2) and the second day shall be paid at the rate of time and one-half (1-1/2).

**Section 3.** Permanent shift workers will have two consecutive days off per week in lieu of Saturday and/or Sunday.

**Section 4.** When permanent shifts are canceled, the Union shall be given at least three days in writing, if possible.

ARTICLE XIV

HOLIDAYS, LEAVES, JURY PAY AND PENSION

**Section 1. Holidays:**

(a) The following days shall be observed as holidays under this Agreement:

NEW YEAR'S DAY

LABOR DAY

Martin Luther King Day

Columbus Day

WASHINGTON'S BIRTHDAY

VETERAN'S DAY

Memorial Day

Thanksgiving Day

Independence Day

Christmas Day

**\*The above holidays will be observed on the same day NASA observes them.**

(b) In the event the government proclaims a permanent holiday other than those listed in Section 1 above, then the employees shall be granted that holiday. If an employee is scheduled to work on a holiday, but fails to do so, he will receive no holiday pay.

(c) An employee who works on one of the above-listed holidays shall be paid at time and one-half (1 1/2) his straight time base rate of pay for all hours worked on that holiday, in addition to any holiday pay for which he may be qualified.

(d) Holiday pay shall not be included in computation of weekly overtime.

(e) To be eligible for holiday pay, an employee must work his regularly scheduled day before the holiday and his regularly scheduled day after the holiday unless excused by the Company.

(f) Only permanent shift employees shall be paid holiday, vacation, and sick leave at their applicable shift rate of pay.

## **Section 2. Administrative Leave:**

On days not recognized as holidays under Section 1 above, but where the government, because of special events and occasions substantially reduces the normal activity at the Center because of such social event or occasions, and allows reimbursement to the Company, the following provisions shall apply:

(a) Those employees who are required to work will be paid at their straight-time hourly rate; provided, however, that said employee will receive compensatory time off equal to the time worked and his straight-time base rate of pay for such compensatory time.

(b) Those employees who are not required to work will receive regular straight time a day's compensation at their regular straight hourly rates.

(c) Employees who are out on sick leave or vacation will charge their time to sick leave or vacation and not administrative leave, when notification of base closing is given after the end of the shift that is immediately prior to the administrative leave.

## **Section 3. Annual Leave:**



- (a) Employees with less than three (3) years, shall earn one (1) hour Annual Leave per year for every twenty (20) man hours paid, excluding overtime.
- (b) Employees with three (3) years, but less than fifteen (15) years, shall earn one (1) hour Annual Leave per year for every thirteen (13) man-hours paid, excluding overtime.
- (c) Employees with more than fifteen (15) years shall earn one (1) hour Annual Leave per year for every ten (10) man-hours paid, excluding overtime.
- (d) Employees are permitted to carry only thirty (30) days of Annual Leave from one year to the next, by December 31 each year.
- (e) Length of service includes the whole span of continuous service with the present (successor) contractor, and with the predecessor contractors in the performance of similar work at the same Federal Facility Except, as cancelled and terminated according to article XXI Section 5, effective with the ratification of this agreement of August 2000.
- (f) Employees desiring to take Annual Leave must receive permission from the Company by 9:00 am the day before Annual Leave is desired. Effective upon signing this Agreement, each employee will be allowed four (4) unscheduled annual leave absences to be taken at the employee's discretion. The employee will have four (4) opportunities from August 1 to July 31 to take this unscheduled leave. The total number of hours for unscheduled absences can not exceed thirty-two (32) hours.
- (g) Employees who schedule vacations of one (1) week or more and who submit a written request through Payroll two (2) weeks or more in advance of the vacation starting time, will be paid vacation allowance prior to the end of the work shift on the last work day preceding the vacation schedule.
- (h) By mutual agreement, employees having 5 weeks of annual leave may request to sell-back to the Company up to two weeks of leave at their regular straight time rate of pay.
- (i) Employees Having 4 weeks of annual leave may request to sell-back to the Company 1 week of leave at their regular straight time rate of pay.

**Section 4. Sick Leave:**

- (a) Employees will earn one (1) hour of sick leave for every twenty (20) hours paid, excluding overtime.
- (b) Employees absent from work because of illness must, upon reasonable request in accordance with the Company sick leave policy, submit administratively acceptable evidence that they were ill and unable to work.
- (c) Employees may accumulate all unused sick leave from one year to the next.
- (d) Employees absent from work because of illness must inform the Company of the telephone number where they may be reached during such time of illness.

(e) Employees requesting same day sick leave calling in later than the start of the shift will receive Leave Without Pay (LWOP) for the day.

(f) Employees will be required to submit a written doctor's excuse for all hours exceeding twenty-four (24) in any calendar year period. Employees failing to submit the appropriate documentation will be subject to the following disciplinary action:

1. The first offense will be a suspension equal to the amount of hours in excess of twenty-four (24) hours.
  2. The second offense will be a three (3) day suspension.
  3. The third offense will result in termination.
- (g) Employees having 400 hours and above of accrued sick leave may extend their initial twenty-four hour period by submitting doctor's excuses during that period. Employees having less than 400 hours will have all sick leave hours used counted toward the twenty-four hour period.

**Section 5. Jury Pay:**

(a) Regular full-time employees who are absent on a regularly scheduled day and/or days of work because of jury service shall be paid. Said jury service pay is conditioned upon such employee reporting his jury summons in advance to the Company. Regular full-time employees are allowed time off without loss of pay only when subpoenaed/summoned by the city, county, state, or federal government or the Company on behalf of the government or the Company, in cases where the government or the Company have a principal interest. The employee must provide the Company with a copy of the subpoena/summons.

**Section 6. Bereavement Pay:**

(a) In the event of the death in an employee's immediate family of any of the following relatives; Spouse, Child, Mother, Father, Brother, Sister, the employee shall be entitled to be absent from work for a period not to exceed three (3) normal working days to afford him an opportunity to attend the funeral and/or participate in other matters relating to the death of the deceased. This period of time will not exceed three (3) normal work days following the funeral. During such absence, the employee shall be compensated at his regular straight time hourly rate for each eight (8) hour work day absent.

(b) In the event of the death of an employee's Grandparent or an employee's Grandchild, the employee shall be granted two days off to attend the funeral providing the funeral occurs on a normal work day and providing the employee attends the funeral. During such absence the employee shall be compensated at his regular straight time hourly rate.

(c) The Company shall reimburse a designated steward for lost wages resulting from his attendance at the funeral of any employee if such funeral takes place during normal working hours.

**Section 7. Retirement Fund:**

- (a) The Company agrees to contribute on behalf of all employees working under the terms of this Agreement, seven and one-half percent (7.5%) of their gross weekly pay into a Pension Fund on an individual account basis.
- (b) The said Pension Fund shall be administered pursuant to an agreement and declaration of trust administered the check for the amount representing the jointly by an equal number of persons representing the Local Union and the Company.

(c) The Trustee shall determine the rules and regulations regarding the Pension Fund and that such rules and regulations conform to all requirements of the law.

- (d) The check and/or respective monies shall be transmitted not later than fifteen (15) days after the end of the month for which contributions are being made. Along with the check for the amount of calendar monthly contributions, the Company shall furnish to the Trust Fund a mutually agreeable form setting forth the employee's name, social security number, the number of clock hours worked, and his gross earnings for the calendar month, and said copies will be executed to cover the aggregate number of weekly payrolls in each calendar month.

*ARTICLE XV*

**TRAVEL**

During the term of this Agreement subsistence, travel allowance, mileage, per diem, or pay for travel time shall not be paid to any employee covered by the terms of this Agreement unless approved by the Contract Manager.

*ARTICLE XVI*  
SUPERVISION

The Company reserves the right to send into the area of work as many supervisors and engineers as it deems necessary to carry out the work covered by this Agreement, but they shall not perform any manual work, except in cases of emergency, instruction, and on the job training.

*ARTICLE XVII*  
TOOL ROOMS

The Company and the Union agree that it shall be the Company's prerogative to maintain and operate tool rooms and parts warehouse facilities.

*ARTICLE XVIII*  
FIRST AID AND SAFETY

**Section 1.** The employees covered by this Agreement shall, at all times while in the employ of the Company, be bound by the safety rules and regulations as established by the Company. All employees will be issued Company safety manuals.

**Section 2.** A Joint and Safety Health Committee will be established for the purpose of making constructive recommendations to the Company. The Committee will consist of four (4) members; two (2) appointed by the Company and two (2) bargaining unit employees appointed by the Union. Meetings shall be held once each month and the time spent in attendance by these members shall be compensated for the time at the employee's applicable rate of pay, and minutes shall be recorded and copies furnished to the members of the Committee.

*ARTICLE XIX*  
INTERFACING

On projects requiring multi-craft support, those crafts may be required to support each other in an effort to complete the task in a more efficient manner. This will require craftsmen to assist other crafts under the direction of the craftsman needing the assistance. In no way is this intended for craftsman to perform the tasks of another trade. It is understood by both parties that interfacing pertains strictly to skilled craftsmen only, excluding laborers.

*ARTICLE XX*  
GENERAL WORK RULES

General Work Rules affecting employee conduct are attached hereto and made a part hereof.

If is agreed by the Union that all of the employees covered by this Agreement shall be made aware of these General Work Rules and regulations by the Company at the time of their hire and that they shall be bound by them throughout the duration of their employment.

It is further agreed that violation of these General Work Rules and regulations is direct and just cause for disciplinary action, including immediate discharge subject to Article VII, Grievance Procedure.

ARTICLE XXI  
SENIORITY

**Section 1.** In the event of reduction of the work force, employees with shortest length of service in their craft, will be laid off first.

**Section 2.** All new employees shall be on a probationary period for a period of ninety (90) calendar days. Probationary employees shall receive the wages and the fringe benefits, as described in this Agreement. New employees shall have no seniority until the probationary period has been completed. After completion of the probationary period, an employee's seniority shall then be credited from the date of hiring.

Probationary employees shall receive performance reviews on or about thirty (30), sixty (60), and eighty-five (85) days after date of hire. Any decisions by the Company to terminate a probationary employee on the basis of response to supervision, attendance, or ability to perform assigned tasks, shall be final and will not be subject to Article VII (Grievance Procedures) of this Maintenance Agreement. This applies to the termination of probationary employees only.

**Section 3.** A list of employees arranged in order of length of service with the Company (Predecessor inclusive) and length of service within a craft, shall be prepared by the Company once every six months. One copy shall be sent to the Union on Company letterhead, another copy shall be posted in a conspicuous place on the Company's bulletin board.

**Section 4.** Any controversy of the seniority standing of any employee on the seniority list must be submitted to the Company within fifteen (15) days after the posting of the seniority list or any such protest shall be deemed to be waived.

**Section 5.** Benefit and Craft Seniority shall be canceled and terminated upon the happening of any of the following events:

- (a) An employee quits.
- (b) An employee is discharged
- (c) An employee fails to return to work within five (5) days of notice of recall given by the Company by registered or certified mail.
- (d) Settlement has been made for total disability.
- (e) An employee has retired.
- (f) An employee has been in layoff status for more than twelve

(12) months, or is absent because of sickness or injury for twenty four (24) months.

(g) An employee accepts a position outside of the collective bargaining unit and remains outside of the unit for more than ninety (90) days.

**Section 6.** Apprentice craft seniority, upon completion of the apprenticeship, shall revert back to the date of Indenture.

**Section 7.** Should an employee accept a position with the Company, whether covered by the Bargaining Agreement or not and he or she or the Company decides, within 90 days against said move the employee shall be reinstated to his or her former position with no loss of seniority or pay as if the move had never occurred.

#### *ARTICLE XXII*

#### PROTECTIVE LEGISLATION

All employees covered by this Agreement shall have the protection of all existing Federal, State, and Local laws applicable to employees in general.

#### *ARTICLE XXIII*

#### PERIODIC CONFERENCE

Periodic conferences shall be held by the parties from time to time for the purposes of discussing matters of mutual interest.

#### *ARTICLE XXIV*

#### GENERAL SAVINGS CLAUSE

Any provisions in this Agreement which are in contravention of any Federal, State, Local or County regulations or laws affecting all or part of the limits covered by this Agreement shall be suspended in operation within the limits to which such law or regulation is in effect. Such suspension shall not affect the operation of any such provisions covered by this Agreement, to which the law or regulation is not applicable. Nor shall it affect the operations of the remainder of the provisions of the Agreement within the limits to which such law or regulation is applicable.

*ARTICLE XXV*

**WORK STOPPAGE**

During the length of this Agreement, there shall be no lockout by the Company, and no slowdown, work stoppages, or sympathy strikes by the Union.

*ARTICLE XXVI*

**LANGLEY FEDERAL CREDIT UNION CHECK-OFF**

The Company agrees to Check-off authorization, if duly signed by the employee, for the Langley Federal Credit Union and said money will be forwarded to the Credit Union, subject to the following:

- (1) All authorizations for Langley Federal Credit Union Check-offs will be honored by the Company only upon the receipt by the Company of executed forms sent to the Company by the Credit Union.
- (2) All cancellations for Credit Union Check-offs will be honored by the Company only upon the receipt by the Company of properly executed forms sent to the Company by the Credit Union.
- (3) All cancellations of increases or decreases in such Check-offs which are received by the Company a minimum of three (3) working days prior to the close of a pay period, will be processed by the Company effective with that pay period provided, however, at least thirty (30) days have lapsed since processing a change notice for the affected employee. The Union agrees to save the Company harmless from any action or claims growing out of these deductions (Check-off) and commenced by any employee or former employee of the Company. The Company's sole responsibility is to forward the monies deducted to the credit Union weekly. The check-off period to close midnight on Friday and payment to be mailed on or before the Friday of the following pay week.

**ARTICLE XXVII**



## **APPRENTICESHIP AND JOURNEYMEN TRAINING**

An Apprenticeship Training Program, as specified by separate agreement, will be offered and maintained during the life of this Agreement and all subsequent Agreements until such time as terminated by mutual agreement by both parties.

### **ARTICLE XXVIII**

#### **HEALTH AND WELFARE**

##### **Section 1. Group Medical Insurance**

- (a) The Company will continue to sponsor Group Medical for all employees and employee dependents through 31 July 2003.
- (b) Entry into the program is restricted to new hires at the time of hiring or existing employees between July 1, and July 31, of each year.
- (c) The Company will pay the first 5% of any annual premium increase; the employee will pay the next 2%. The cost of an annual increase over 7% will be shared equally (50-50) by the Company and the employee. The base premium effective July 31, 2000 will be paid 80% by the Company and 20% by the employee.
- (d) The Health Funds Trustees will notify the Company annually of any recommended increase in the health premium.
- (e) All employees covered under this agreement shall have the option of enrolling in the group medical plan as described above, or at the individual employee's option, may elect to receive thirty-four (34) cents per hour in lieu of accepting the medical coverage offered.

##### **Section 2. Group Life Accidental Death/Dismemberment and Weekly Accident/Sickness**

The Company will continue to sponsor Group Life, Accidental Death/Dismemberment, and Accident/Sickness Disability insurance for all employees. Any increase in Group

Life, AD&D or Accident/ Sickness on 1 August 2000 or 1 August 2001 will have a 3% cap and the first 3% is to borne by the Company. Any increases in excess of 3% will be borne by the employee.

**Section 3. Change of Carriers:**

During the term of this Agreement, the Company may, with the concurrence of the Union, change the Carrier or Carriers of any the insurances described in Section 1. (a) provided that the benefits provided by the plan or plans remain substantially equivalent to those currently provided.

*ARTICLE XXIX*

**DURATION**

This Agreement constitutes the entire agreement between the parties and any prior practices inconsistent with this Agreement are not binding on the Company.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement consisting of -45- pages, which has been signed on this 31st day of JULY, 2000.

The masculine gender as used herein ("he", "his", "him", "man") shall be deemed to include the feminine gender ("she", "hers", "her", "woman").

**ARTICLE XXX**  
**IBEW COPE CHECK-OFF**

The Company agrees to deduct and transmit five cents (\$0.5) per pay hour from wages of these employees who voluntarily authorize such contributions on form provided for the purpose by the appropriate IBEW, Local COPE Committee. These transmittals shall be made monthly and shall be accompanied by a list of names of those employees for whom such deductions have been made and the amount deducted for such employee. The transmittal shall be due to the Local COPE Treasurer no later than the 15<sup>th</sup> of the month following the end of each calendar month.

DEDUCTION FORM:

TO JOHNSON CONTROLS WORLD SERVICES, INC

I hereby authorize the Company to deduct from my pay the sum of \$.05 (five cents) for each hour worked and to forward that amount to the International Brotherhood of Electrical Workers, Committee on Political Education. This authorization is signed voluntarily and not out of any fear of reprisal and on the understanding the IBEW-COPE is engaged in a joint fund raising effort with the AFL-CIO, will use the money contributed to that effort to make political contributions and expenditures in connection with federal and state elections, and that this voluntary authorization may be revoked at any time by notifying the Company and IBEW-COPE in writing of a desire to do so. Contributions of gifts to IBEW-COPE are not deductible as charitable contributions for federal income tax purposes.

Print Name: \_\_\_\_\_

SS#: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Article XXXI  
WAGE SCHEDULE**

Section 1. The Company agrees to pay the following hourly rate for the classifications listed immediately below:

MINIMUM WAGE RATE PER HOUR

CRAFT/SKILLS 1 AUG 2000	EFFECTIVE	EFFECTIVE 1 AUG 2001	EFFECTIVE 1 AUG 2002
LABORER, CLASS "B" MAINTENANCE		9.94	10.24
Laborer, Class "All Maintenance		10.55	10.87
PAINTER, MAINTENANCE		16.83	17.33
CARPENTER, MAINTENANCE		17.25	17.77
Roofer, Maintenance		17.25	17.77
Asbestos Worker		17.25	17.77
Insulator, Pipecover, Maintenance		17.25	17.77
Mason, Bricklayer, Maintenance		17.80	18.33
Electrician, Maintenance		17.80	18.33
Mechanic, Maintenance		17.80	18.33
Millwright, Maintenance		17.80	18.33
Water Treatment		17.80	18.33
Pipefitter, Maintenance		17.80	18.33
WELDER		17.80	18.33
Mechanic, Ref & A/C Maintenance		17.80	18.33
Sheet Metal		17.80	18.33
Rigger, Maintenance		17.80	18.33
Crane Operator, Maintenance		17.80	18.33
Machinist, Precision		18.11	18.66
PRECISION MACHINE REPAIRMAN		18.11	18.66
Technician, Ref & A/C Maintenance		18.11	18.66
Calibration Mechanic		17.80	18.33

Section 2. All permanent employees hired on or after 1 March 1989 shall receive \$.50/hour less than the above rate for 90 days.

Section 3. Temporary hires (not to exceed 120 days) and summer hires shall receive the established rate but shall not be eligible for any fringe benefits in addition to their monthly rate.

Section 4 Leadmen and shop leaders will be compensated a minimum of \$0.75 an hour above their normal rate, for at least 8 hours per incident.

Section 5 Lead Positions

- (a) It is the sole prerogative of management to select employees to lead positions and to abolish lead positions.
- (b) Lead positions will be offered to employees from the bargaining unit. The Company will select lead positions based upon ability, fitness, skill, and knowledge. The Company shall notify the Union of lead persons assigned.
- (c) Lead persons should be qualified to perform the duties for which they are responsible, in order that they may train any employee coming into their section/department and direct employees in their assignment of work, as instructed by their supervisors.
- (d) Lead persons are to work in peace and harmony with their fellow employees. They are not empowered to hire, fire, suspend or discipline, or recommend discipline for any employee. Lead persons are simply to carry out instructions as directed by their supervisors and report any problems they incur.

**FOR THE EMPLOYER:  
JOHNSON CONTROLS WORLD  
SERVICES, INC.**

**FOR THE UNION:  
INTERNATIONAL BROTHERHOOD  
OF ELECTRICAL WORKERS,  
AFL-CIO LOCAL UNION NO. 1340**

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ROSS HETHERINGTON  
GENERAL MANAGER

---

JIM AVERY  
1340 BUSINESS MANAGER

---

WIL. RICHARD  
Manager, Human Resources

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RAYMOND TUCKER  
1340 Chief Steward

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Marshall Holstrom  
Manager, Central Planning & Control

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Keith Jackson  
1340 Bargaining Committee

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Robert E. Caldwell  
Manager, Maintenance

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Mark Trybe  
1340 Bargaining Committee

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STEVE BOLLMAN  
RCM Program Administrator

## APPENDIX A

### **CBA Between Johnson Controls World Services, Inc. and IBEW Local 1340 August 1, 2000**

#### **GENERAL WORK RULES**

The Employee "Standards of Conduct" Business Policy No. 11-04.1, dated August 1, 2000, is provided for your information and guidance. These rules are established to define a standard of personal conduct which is expected of every employee while on duty. A violation of any rule that merits disciplinary action will be acted upon by the Company as follows:

#### **PURPOSE**

The purpose of this policy is to provide a work environment that produces maximum efficiency, high employee morale and individual recognition. Our experience has shown that almost all employees enjoy working in such an environment.

#### **SCOPE**

Having a work environment which is based on the concept of individual dignity requires the establishment of rules and regulations to be used as guidelines for measuring conduct in individual situations.

These work rules place demand on the individual employee as well as the Company. The Company must ensure that the regulations are administered fairly and the employee must understand and abide by the standards.

When employees know and understand the work rules, there is seldom a need to impose compliance. The policy and procedures that follow details the work rules, counseling procedures (often called "Progressive Discipline") and an employee appeal process to ensure fairness.

#### **POLICY**

Management is responsible for establishing and communicating to all employees JCWS's work standards, policies, standard practices and ensuring that these standards are administered in a fair and just manner. Each situation involving employee conduct represents an individual problem, therefore, good judgment and thorough knowledge of the facts are essential for timely resolution.

All JCWS employees are responsible for maintaining acceptable conduct while on the job. In the event an employee's conduct falls below acceptable standards, the employee will be counseled and may be subject to disciplinary action.

To maintain an effective policy, investigations must remain objective. When a breach of standards occurs, the manager will thoroughly investigate and review all relevant facts and allow the employee to explain his/her conduct. The eventual decision must be based on a fair investigation, in which the employee has had ample opportunity to be heard. In addition, the decision should be consistent with similar situations that have been resolved in the past. Accurate and complete records of events, conversations and results which occur during this process must be kept.

In the event the employee, the employee's management and Industrial Relations cannot agree on a solution to the concern, the employee may submit the issue to the General Manager or the Manager, Administration for final resolution.

### **TYPES OF DISCIPLINARY ACTIONS**

The type of action is determined by the Severity of the offense. In most cases, the following steps should be used:

**Oral Warning.** If, after counseling, and employee's conduct warrants an oral warning, the supervisor shall document the warning for his record only. It is the responsibility of the supervisor to make clear to the employee the following:

- The intent to discuss employee breach of standards
- The conduct giving rise to the warning
- Positive steps to be taken by the employee to avoid further management action.

### **Written Warning**

An employee's immediate supervisor shall explain to the employee the conduct giving rise to the written warning and specify whether or not this is a repeat violation. The written warning will be on the Notice of Disciplinary Action form and may be accompanied by any other written record.

### **Disciplinary 90-Day Review**

When the employee's conduct has violated JCWS Policies, Rules of Conduct or Standard Practices and the employee is placed on a review for a period of ninety (90) days, known as a "90-Day Review," a copy of the Notice of Disciplinary Action form shall be completed. Once every thirty (30) days, the supervisor will meet with the employee and evaluate his performance. All reviews shall be documented.

### **Suspension**



When an employee is suspended from work without pay or ineligible for other compensation, the employee shall be informed verbally and a Notice of Disciplinary Action form will be completed. The form shall document the suspension action and specify, in detail, the violation which led to the suspension.

### **Termination**

Employees may be terminated for just cause and, when such action occurs, it shall be documented on the Notice of Disciplinary Action form. Termination cannot be implemented until reviewed with Industrial Relations.

### **Emergency Suspension**

This type of suspension may be made pending further investigation when the employee's conduct or action presents a significant danger to the safety and welfare of others, may severely impact the department's operational status or appears to have violated rules of conduct to an extent possible necessitating termination.

### **CAUSES FOR ACTION**

Commission of any of the following infractions will normally be considered grounds for immediate discharge:

- Failure to report Company or Government vehicle accidents promptly and properly.
- Theft, including the unauthorized use or removal of Company, Government or a fellow employee's property.
- Engaging in or fostering espionage, sabotage or other criminal activity.
- Selling, or offering for sale, narcotics or restricted, dangerous drugs.
  - Refusing to take blood alcohol and/or alcohol Breathalyzer test, or test results that reveal the person is intoxicated as substantiated by Virginia Law.
  - Possessing, using, or being under the influence of narcotics or restricted, dangerous drugs on or when trying to enter Government or Company controlled property. This prohibition does not apply when such drugs are prescribed or administered by a licensed physician.
- Possessing, using, or being under the influence of alcohol on or when trying to enter Government or Company controlled property, during normal duty hours.
- Convictions of any felony offense. This rule does not apply when sentencing for the offense specifies adjudication of guilt is withheld.

- Failure to be granted an Unescorted Access Authorization (UAPRP) for ADP work areas when such is required, and/or secret clearance within 180 calendar days from the date of employment.

Any of the following may be grounds for disciplinary action ranging from a warning or reprimand to discharge:

### **Conduct on the Premises**

- Improper conduct on Government or Company controlled property.
- Fighting, practical jokes or horseplay.
- Using threatening, abusive or profane language.
- Gambling.
- Acceptance of anything of monetary value from any supplier, customer or other contractors or prospective contractors, or their representatives.
- Using, disseminating, or permitting the use of any privileged information acquired during employment with the Company or in the work for the Company's customers for personal gain or other improper use.
- Sleeping on the job.
- Insubordination.
  - Falsification of operational data, Personnel Security Questionnaire forms or any other Company records.
- Repeated tardiness, unexcused absences, abuse of sick leave privileges, or failure to notify supervision promptly when unable to report to work.
- Leaving the plant or work assignment during working hours without prior supervisory permission.
- Outside employment or other outside activity not compatible with the full and proper discharge of the employee's position with the Company.
- Violation of Company-approved procedures for accomplishing work.

### **Acts of Discrimination or Sexual Harassment**

- Acts of discrimination based upon race, creed, color, religion, sex, age, national origin, or disability.
- Sexual harassment.
  - Acts of retaliation against an employee in connection with complaints of discrimination.

### **Safety Rules and Regulations**

- Failure to observe rules and regulations.
- Disobeying safety rules or instructions given in the line of duty by LARC Safety Officers, civil defense personnel, supervisors, or other proper authorities in emergencies.
- Failure to use provided safety equipment.
- Failure to report on-the-job injuries or accidents, or to follow instructions for treatment of injuries.
- Disobeying nonsmoking or non-eating signs; smoking in posted nonsmoking areas.
- Reckless or negligent operation of Government or private vehicles on Government or Company controlled property or while on Company business.

### **Securing and Safeguards Regulations**

- Violation of Security or Safeguards regulations.
- Disclosure of classified matter or information to unauthorized persons.
- Failure to observe the established regulations regarding the protection of such classified matter or information against accidental or deliberate disclosure to unauthorized persons.
- Lending, borrowing or altering a security identification device (badge).
- Unauthorized entry into restricted areas or allowing unauthorized individuals into restricted areas.
- Possessing firearms or other weapons, explosives, cameras, special viewing devices or radio transmitters on Government or Company controlled property without the proper permits.

- Convictions of misdemeanor offenses not compatible with the full and proper discharge of the employee's position with the Company.
- Refusal to permit the search of packages, lunch boxes, briefcases, purses, etc., upon request of authorized individuals.

### **Misuse and/or Misappropriation of Government Property and Funds**

- Misuse or unauthorized use of Government or Company controlled property, material, equipment, funds, or other property including scrap or salvage.
- Misuse, loss, theft, or unauthorized modification of Company or Government computer systems, programs or data bases. This includes hardware, software, communications links and computer time.
- Working on unauthorized projects on Government or Company controlled premises.
- Performing any rework, repair, or modification on any materials or items without the proper authorization.
- Removal of Quality status stamps, tags or documents, and/or the use of any materials or parts that have been rejected by Quality.
- Using Company time for non-Company work.
- Using equipment, tools, stationery, or official vehicles for personal purposes.
- Misusing or abusing telecommunications equipment or services.
- Misappropriating materials, funds, or services by falsifying such documents as timecards, travel invoices, purchase orders, etc., or by any other direct or indirect means.

### **ABSENCE AND TARDINESS**

Paid sick leave is an insurance policy to protect the employee's wages in case of an emergency. Sick leave should be used only for the intended purpose.

Since abuse of absenteeism or tardiness increases costs, creates an undue hardship on fellow employees and limits ability to effectively plan and accomplish goals, the following policies and guidelines have been developed to help reduce absenteeism and tardiness.

Supervision must understand and explain Company policies and procedures to their subordinates. Supervisors at every level will be responsible for maintaining attendance records for employees. Since inconsistency causes problems when counseling or

disciplinary action is necessary, Industrial Relations will monitor actions to assure consistency.

In an effort to monitor absenteeism and tardiness, the following guidelines should be adhered to:

- Accurate records of all nonproductive time should be recorded for each employee.
- As soon as an employee returns to work from sick leave or tardiness, the supervisor should take a few minutes to informally speak to the employee.
- Deal with each absence immediately, whether or not the absence was expected.
- When an employee's record indicates that he is having a problem or might be abusing sick leave, it is time for a counseling session. In such circumstances, a written warning may be necessary.
- If disciplinary action is taken, it must be based upon detailed records.
- Absenteeism should be evaluated giving consideration towards the understanding of any sick leave due to unusual circumstances, such as major medical problems.
- If an employee has been out in excess of thirty (30) hours within a six (6) month period or if this employee's record shows a pattern of absence abuse, the employees should be considered for immediate counseling. Absenteeism due to major medical problems should be evaluated on a case-by-case basis.

## **PROGRESSIVE DISCIPLINE**

### **Counseling**

Whenever there is an irregularity in attendance, the supervisor should, prior to progressive discipline, meet with and counsel the employee as to his obligations. Listed below are the items to be discussed:

- The recent absences leading up to the counseling session.
- The Company's concern and willingness to help if there is a problem.
- Positive steps to be taken by the employee to preclude the need for future disciplinary action.
- Convince the employee that they do make a difference in their respective department, in that satisfactory attendance is one of their primary responsibilities.

- Explain to the employee how his absence can affect others when not at work, such as disruptions of work schedules, problems encountered by employee who fills in, etc.

### **Step 1 - Oral Warning**

When patterns of absence or tardiness begin to surface or when an employee approaches thirty (30) hours of absenteeism within a six (6) month period, an oral warning should be initiated and documented as a “Memo for Record.” The minimum responsibilities of the immediate supervisor are as follows:

- The absenteeism record leading up to the counseling. This should be completely up-to-date.
- The Company's concern and willingness to help if there is a bona fide problem.
- Positive steps to be taken by the employee to avoid further disciplinary action.
- Convince the employee that they do make a difference in their department and that satisfactory attendance is one of their primary responsibilities.
- Explain to the employee how his/her absence can affect others when not at work, such as disruptions of work schedules, problems encountered by employee who fills in, etc.

### **Step 2- Written Warning**

When an employee fails to take the necessary action to correct his attendance following an oral warning, it may be necessary to issue a Notice of Disciplinary Action to substantiate formal counseling. Such action is designated as a written warning.

### **Step 3 - Written Warning with 90-Day Review Period**

When an employee continues to be tardy or absent from the job, the employee may be placed on a review for a period of ninety (90) days, known as a “90-Day Review.” The following information shall be contained in the Notice of Disciplinary Action form:

- Clear, concise, and explicit information explaining the terms of the 90-day period and the consequences that could result if the employee continues with lost time during this period. At this point, the employee should also be advised that the next step could be termination.

- Once every thirty (30) days, the supervisor will sit with the employee and evaluate his performance. Each evaluation shall be documented, and copies shall be sent to the employee and Industrial Relations (if the involved employee is represented by a bargaining unit) or Industrial Relations (if the involved employee is non represented).

#### **Step 4 - Termination**

When an employee fails to correct his/her problem through whatever means necessary, the next step is termination.

#### **NOTICE OF DISCIPLINARY ACTION FORM**

The JCWS Notice of Disciplinary Action Form will be used to document all formal disciplinary actions.

#### **Explanation of the form items:**

- **Nature of Charge.** Use a short title for the offense, (i.e., excessive tardiness, neglect of duty, possession of intoxicating liquor, etc.).
- **Detailed Description of Offense.** Record the specific facts supporting the charge. Details must be factual, objectively stated, and supportable under scrutiny.
- **Adverse Effect on the Safety or Welfare of Others.** Will be indicated when, for example, fighting or negligent horseplay.
- **Adverse Effect on the Performance of Required Work.** Will be indicated when, for example, there is excessive absenteeism or tardiness.
- **Comments.** May be used to further explain to an employee the effect or severity of the offense.

#### **APPROVAL CYCLE**

The initiation of a Notice of Disciplinary Action form is the responsibility of the employee's immediate supervisor. Before disciplinary actions are placed into effect, the manager requesting such action shall communicate with and obtain the concurrence signature of the Manager, Human Resources, and the appropriate Branch Manager/Manager or his designee. All terminations or suspensions shall be discussed with the Manager, Human Resources, and any notice documenting the termination of any employee will require the signature of the Manager, Human Resources.

The highest level for concurrence of written warnings, probation and suspension actions is the appropriate Supervisor and the Administrative Manager or his designee. Once the concurrence cycle has been completed, the parties indicated on the bottom of each form shall receive appropriate copies. All terminations or suspensions shall first be discussed with the "Manager, Human Resources," or his designee, and any notice documenting the termination of an employee will require the signature of the Manager, Human Resources. Employees being considered for this type of action may be placed on emergency suspension pending approval of planned actions.

Before written warnings, probations, suspensions or terminations are placed into effect, the Supervisor requesting such action shall communicate with the Manager, Human Resources, or his designee, to discuss such action prior to implementation.

### **ADMINISTRATION OF POLICY**

A progressive sequence of disciplinary action is to be taken based upon the severity of an offense. The least severe offenses result in oral warnings; the most severe offenses result in terminations.

If and when an employee is placed on a "90-Day Review," his/her conduct or performance becomes critical to continued employment. Any additional violations during this period will result in more serious disciplinary action, regardless of the fact that the additional violation itself may not mandate a suspension or termination.

Such judgments are necessary for successful application of the disciplinary policy. It is of the utmost importance that disciplinary actions not only be justified, but also that they are administered in an evenhanded fashion, which treats equally all who have committed the same type of offense. Employees on a "90 Day Review" shall have their conduct and performance evaluated by their immediate supervisor not less than once every thirty (30) days during said period.

Each evaluation shall be documented with copies sent to the employee and the Manager, Human Resources. Applicable provisions of collective bargaining agreements are not altered by this procedure.



The chart below, although not absolute or exhaustive, some causes that may justify disciplinary action. It also indicates the type of counseling and severity of action that could be taken based upon the frequency, facts and severity of the offense. These guidelines should be adhered to as closely as possible.

<u>Incident</u>	<u>Oral Warning</u>	<u>Written Warning</u>	<u>90-Day Review</u>	<u>Susp.</u>	<u>Term.</u>
Harm to Person or Property					First
Sleeping on the Job					First
Falsifying Information					First
Theft					First
Drugs & Intoxicants					First
Insubordination					First
Espionage, Sabotage or Criminal Activity					First
Improper Conduct				First	Second
Safety Infractions				First	Second
Security Infraction			First		Second
Excessive Absence/ Tardiness	First	Second	Third		Fourth

APPENDIX B

MEMORANDUM OF UNDERSTANDING

Between Johnson Controls World Services and IBEW Local 1340

The purpose of this memorandum is to establish a rate of pay for the high voltage, maintenance electrician classification and to set seniority guidelines for the Electrical Job Family.

All of the classifications listed below will be considered one Job Family. The Electrical Job Family will consist of two different job classifications but will continue to have one seniority list. The High Voltage Maintenance Electricians will have their own job classifications due to the specialized skills required in that area. Listed below is a new rate and details for the Electrician, Maintenance High Voltage classification. All other provisions of the collective bargaining agreement will remain in effect and apply to the new classification.

Electrician, Maintenance  
Electrician, Maintenance High Voltage \*

\* Rate = \$1.50 above Electrician, Maintenance

The Electrician, Maintenance High Voltage is expected to be on call at all times for customer and company needs. At least one employee in the department will be expected to carry a pager at all times and respond to any calls they may receive on behalf of the company or customer. Pay for on call duty is included in to the hourly rate and no further compensation will be made.

Maintenance Electricians shall be used, at the Company's discretion, as standby to work with the current high voltage, maintenance electricians. Upon becoming certified at 115KV or more an electrician working within the classification of high voltage will be compensated at the appropriate rate.

Agreed to:

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Wilmar J. Richard, Manager  
Human Resources

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Jim Avery, Business Manager  
IBEW Local 1340

Date

Raymond Tucker, Chief Steward  
IBEW Local 1340

## APPENDIX C

James Avery  
IBEW Local 1340

July 27, 2000

Based on agreements made in contract negotiations, the Company and Union will establish a Technician classification.

This classification will be open to all trades and will be based on advanced skills, training, etc.

The classification will also carry an increased pay grade.

The Company and Union have both committed to this program and will proceed to its establishment as soon as possible.

Wil J. Richard

Maintenance Agreement  
Between  
Johnson Controls World Services, Inc.  
And  
International Brotherhood of Electrical Workers,  
Local Union 1340

This document represents the entire Collective Bargaining Agreement between the parties. All terms and conditions of the current agreement which is scheduled to expire 7/31/03, will remain in affect except the following:

1. Change all dates to reflect a two-year agreement.
2. Change Article XXVIII, Section {c} to address apportionment of premiums for health care to 80 % paid by the company and 20 % to be paid by employees.
3. Change Article XXXI, Wage Schedule to reflect wage increases for all classifications to: 3 % for the flrst year of the agreement {8/I/O3} and 3 % for the 2 nd. year {8/1/04}.
4. Move memo of understanding on High Voltage Electricians into Article XXXI WageScale.
5. Technician Development Program remains as appendix C Letter of Agreement.
6. Move Shop Leads from letter of agreement to inclusion into the CBA under Article XXXI Section, 4.
7. Move classification of Planners I Estimators from Append to the CBA at Article XXXI.

Agreed to:

# EXHIBIT L – IT SECURITY IMPLEMENTATION

## PLAN

(TO BE INSERTED)

EXHIBIT M

SMALL BUSINESS

SUBCONTRACTING PLAN

(Labeled Appendix E by Contractor)