CONTRACT NAS1-98100

The following information has been determined to be exempt from disclosure and has been deleted from the contract and contract modifications:

- Estimated Cost and Award Fee
- Award Fee for each evaluation period
- Estimated Cost and Award Fee for Priced options
- G&A Ceiling Rates
- Subcontracting Plan

The deleted material is exempt from disclosure under 14 C.F.R. 1206.300 (b) (4) which covers trade secrets and commercial or financial information obtained from a person and priviledged or confidential. It has been held that commercial or financial matter is "confidential" for purposes of this exemption if its disclosure would be likely to have either of the following effects: (1) impair the Government's ability to obtain necessary information in the future; or (2) cause substantial harm to the competitive position of the person from whom the information was obtained, National Parks and Conservation v. Morton, 498 F2d 765 (D.C. Cir. 1974).

If NASA should release the negotiated financial information, which is considered to be company "confidential," the result could be that contractors would refuse to negotiate such agreements on the basis that the firm's pricing structure and sub-elements of cost would be made available to it's competitors. Furthermore, disclosure would discourage other companies from participating in the negotiation of similar advance agreements regarding the limitation of certain cost items and billing rates.

Disclosure of the information in the Subcontracting Plan would discourage future submission of detailed data concerning the company's implementation of their Subcontracting Plan and impair the Government's ability to obtain necessary information in the future as well as cause substantial harm to the competitive position of the company.

													CMB APPROVAL	
	SOLIC		ION, OFF	ER AN				DP4S (15 C	FR 700)	RATED DRI		RATING DOADI		F PAGE(S)
		-98100		1-137-GH		10	_	SOLICITATI D BID (IF FIATED (F	3;		S DATE!!	-5-97	REQUISTION PPUR 3H.295	
188	VED BY			CO	DE [3			ER TO if sin	erthan tem "			
La	ingley R	esearch	ics and Spac Center 681-0001	e Adminis	stration			9A	Langley	Bouleva	search Ce ard, Buildi 81-0001	nter ng 1195B, F	Room 125	
тои	E: In se	ealed bi	d solicitatio	ns "offer	" and "	offeror	" mean	"bid" a	nd "bio	der."			-	
							SOLI	CITATIO	N					··········
depos	sitory locate	ed in Buildi	ing 11958 (9A La	angley Blvd.)	, Rm. 125	until <u>4:0</u> 1	<u>0 PM</u> loca	ا time <u>12-</u> را	<u>5-97</u> CA late)	IUTION-LAT	TE Submissio	ons. Modificatio	tem 8, or if hand car ns, and Withdrawals	ried, in the
See S	ection L. P	rovisions !	No. 52.214-7 or		III offers ar	e subject	to all term	s and con	ditions co					
10. FC	DRINFURM	ATION CAL	L: A. NAN	IE.	Davi	d H. J	2006			B. TELEPH	HONE (include		COLLECT CALLS):	
					Davi		TABLE	OF CO	NTENT			(757) 854	-242	
(v)	SEC.	T	DE	SCRIPTION		11.	PAGE(S)		SEC.	3		DESCRIPTION		PAGE(S)
			PART 1 - TH		JLE					PA	RTII - CO	NTRACT CL	AUSES	T FAGE(S)
X	B		FATION/CONTR				1	X			ACT CLAUSE			26
$-\frac{\hat{x}}{x}$	C	·\	ES OR SERVIC				3	+x 1	ART III - L		QUMENTS. ATTACHME		OTHER ATTACH	MENTS 45
X	D	+	GING AND MAR		ZII C.III CII		13	1-2-1				_	INSTRUCTIONS	
X	E	INSPEC	TION AND ACC	EPTANCE			13	X	К			S, CERTIFICAT		1
X	F G		RIES OR PERF				13					TS OF OFFERO		
$\frac{\hat{x}}{x}$	Н	 	ACT ADMINISTI L CONTRACT F				13	$\frac{1}{x}$	2 WELLS SONSO, MIS NOTICES AND OF ERORS			 		
		-				R (Mus		للسلط		by offero		JRS FUR AWA	(RU	<u> </u>
NOT	E: Item	12 doe	s not apply	if the soli							*	m Pid Agg	eptance Period	
12. In offero	compliance) from the	e with the date for re	above, the unde	rsigned agre	es, if this o	offer is ac	cented with	in 150	calendar	days (60 ca	lendar days	unless a differen	nt period is inserted tem, delivered at the	bytho
13. D	ISCOUNT	FOR PRO	MPT PAYMENT	ī	10 CALE	NDAR D	AYS	20 CAL	NDAR D	IAYS	30 CALEN	DAR DAYS	CALENDAR DA	YS
	Section I, C	No	ne				%			%			%	%
			OF AMENDME.			MENDM			DATE AMENDMENT			DAT		
SOLIC	CITATION (or offerors	and related doc	uments	' 	1		11-14-97 4 11-21-97 5			12-9-			
	ered and da					3		+	12-05			<u>5</u>	12-11-	
15A.	NAME AND			6L561			FACILITY				AND TITLE C	-	H. TO SIGN OFFER (T	
,	ADDRESS	OF		aborator						0.0	Vieleee			
(OFFEROR			3200 Magruder Blvd. Hampton, VA 23666						1	C. D. Yiakas Executive Vice President		A	
158 T	EI EPHONE	NO (Inclus	nampto le area code)							Lxecc	TUVE VIC	e Pieside	· · ·	
		865-0		15C. CHECK DIFFERENT ADDRESSIN	FROM ABO	VE - ENT		17. SIG	MATIUME	0/2	âK		January 5	
					AWAF	RD (To	be com	pleted	by Gov	rernmen	t)			··
	CEPTED AS CLIN 1		NUMBERED	20. AMOUN		20.706		21. AC	COUNTING	G AND APPR	PRIATION			
			OTHER THAN FUL		\$10,46 СОМРЕТІТІ)	_					1990: JO: H 1,454 (Compi	
10 U.S.C. 2304(c) () 41 U.S.C. 253(c) ()				1			DRESS SHOW	NN IN	TEM					
24. ADMINISTERED BY (if other than item 7) CODE						otherwise			G.2					
								Fi La	nancial Ingley F	Manage Research	ment Offic Center, I	MS 175		
			OFFICER (Type of	r Print)						, VA 23	3681-0001 RICA	 	28. AWARD DA	TE
R	osema	ry C. F	rcehlich					Rounauf C Frochuch (Signaphry of Contracting Officer) 28. AWARD DATE						
IMPC	RTANT	- Award	will be made	on this Fo	orm, or o	n Stan	dard Forr	n 26, or						

NSN 7540-01-152-8070 (PREVIOUS EDITION UNUSBLE)

PART I - THE SCHEDULE

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 ITEMS TO BE FURNISHED

Research Instrumentation and Measurement Services

Contract Line Item Number (CLIN) 1 - On-Going Services: Work includes the operation of an equipment loan pool an site at Langley Research Center (LaRC), Receipt and Inspection, maintenance of LaRC's Metrology and Information (INFOPC) System, configuration and quality control management, metrology engineering support, instrument pi&-up and delivery, and maintenance and repair of the Government Furnished Equipment (GFE) provided under this contract. The specific requirements for CLIN 1 are contained in Section C, Statement of Work. The work covered by this CLIN requires no written work request (e.g., task orders) for the Contractor to proceed with performance. All of the work described in Section C for CLIN 1 shall begin on the effective date of the contract.

CLIN 2 - Instrument Support Services: Work includes instrument maintenance, calibration and repair, and new instrument acceptance testing at the Contractor's facility(s). Work under CLIN 2 will be performed on an as needed basis. Individual Instrument Work Orders (I Wos) will begin when a piece of equipment is picked up by the Contractor for service at a regularly scheduled pick-up point, when a pick-up request call is placed with the Contractor, or when a new instrument arrives at the Contractor's facility. The specific requirements for CLIN 2 are contained in Section C, Statement of Work.

<u>CLIN 3 - Data Systems Development and Instrumentation Engineering:</u> Work consists of instrumentation systems engineering, data acquisition and analysis, and training. Work under this CLIN with a loaded labor cost estimate of \$10,000 or less AND an estimate for parts and materials of \$20,000 or less shall be issued via an Engineering Service Request (ESR) originated by the Contracting Officer's Technical Representative (COTR) or one of the Task Area Monitors (TAMs). All other work under CLIN 3 shall be issued via Task Orders signed by the Contracting Officer. The specific requirements for CLIN 3 are contained in Section C, Statement of Work.

CLIN 4 • On-Site Instrument Services and Diaital Systems Support Services: Work includes on-site emergency repairs and services that require immediate attention on equipment that cannot be transported due to physical or research impact constraints. Work shall be performed on an as needed basis, and shall be initiated when a sewice call is received. All such calls shall be documented on an IWO. Multiple shift and off-hours support (see 4.1) shall be provided by the Contractor. The specific requirements for on-site instrument services and emergency repair, maintenance and repair of digital systems, and computer systems services under CLIN 4 are contained in Section C, Statement of work.

8.2 ESTIMATED COST AND AWARD FEE (NASA 1852.216-85) (SEP 1993)

The estimated cost of this contract is **State of the Estimated**. The maximum available award fee **is \$10,468,706**.

	Est. cost	Max. Available <u>Award Fee</u>	Total Est. Cost and Max. Award Fee
CLIN 1 CLIN 2 CLIN 3 CLIN 4 Total	\$ \$ \$ \$		\$ 673,274 \$ 1,411,500 \$ 6,645,802 \$ 1,738,130 \$10,468,706

3

Solicitation No. 1-137-GH.2959

8.3 AWARD FEE AVAILABILITY SCHEDULE (LaRC 52.216-96) (MAR 1989)

The award fee available for each evaluation period is as follows.

AF Period	CLIN_1	CLIN 2	CLIN-3	CLIN 4
1. (4/1/98 - 9/30/98)	\$	\$	TBO*	\$
2. (10/1/98 - 3/31/99)	\$	\$	TBD*	\$

• The Available Award Fee under CLIN 3 for each period will be the sum of the available award fee amounts for each of the Task Orders and Engineering Service Requests (ESRs) COMPLETED during that period. The available award fee at the Task Order/ESR level will be computed as a percentage of the estimated (NOTactual) cost of the Task Order or ESR agreed upon by both parties at the time of issuance. The percentage of cost used to estimate fee will be equal to the overall fee:cost ratio for CLIN 3 in the contract. (For example, if the estimated cost for CLIN 3 for the base contract year is \$1,000,000 and the award fee value for CLIN 3 is \$50,000, then the available award fee for each Task Order and ESR during the base contract year will be 5% of the estimated cost of the Task Order or ESR.) The available award fee at the Task Order or ESR level will NOT be changed to reflect cost overruns or underruns. The Task Order or ESR available fee will be adjusted when an increase or decrease in the scope of a Task Order or ESR is negotiated with the Contractor.

8.4 CONTRACT FUNDING (NASA 1852.232-81) (JUN 1990)

- (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 \$ 2,315. This allotment covers the following estimated period of performance: April 1, 1998 through April 2, 1998.
- (b) An additional amount of states obligated under this contract for payment of fee.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.I STATEMENT OF WORK - RESEARCH INSTRUMENTATION AND MEASUREMENT SERVICES

Introduction: The objective of this effort is to provide research instmment and measurement support that economically and reliably satisfies the requirements of Langley Research Center (LaRC). The majority of the work will be performed at the Contractor's facility; a lesser amount will be performed on-site at LaRC and a small portion will be performed at remote test sites (e.g. Wallops Flight Center, 47 Langley Research Center, Commercial test sites)

<u>Scope</u>

The Contractor shall provide personnel, equipment (except as described in Exhibit C, Government Furnished Property), materials and facilities to perform the services described in CLIN 1 (On-Going Services), CLIN 2 (Instrument Support Services at the Contractor's facility), CLIN 3 (Data Systems Development and Instrumentation Engineering) and CLIN Consists Instrument Services and Digital Systems Support Services) as resulted. Approximately thing the contract is on-site services (h. L. Approximately thing the contract is on-site services (h. L. Approximately thing the high a maximum response time of 30 minutes during the Government Satisfactory shift (7:30 a.m.) and second shift (3:30 p.m. - 12:00 midnight) and 60 minutes during third shift (12:00 midnight - 7:30 a.m.), weekends (anytime Saturday or Sunday) and Government holidays, is required to permit research to proceed and to

minimize costly delays. For this Statement of Work, "Aesponse" is defined as having personnel *on* site at the NASA facility.

- 1. <u>CLIN 1 On-Going Services</u>: Work includes generation of Receipt and Inspection Reports, instrument pick-up and delivery, the operation of an equipment loan pool on-site at LaRC, maintenance and repair of GFE. maintenance of LaRC's INFOPC system, Configuration and Quality Control Management, and Metrology Engineering Support. The work described below for CLIN 1 is ongoing and shall begin on the effective date of the contract and continue without interruption through the period of performance of the contract. The specific requirements for each of the work areas under CLIN 1 are as follows:
- 1 _ _ Receipt and Inspection Report: The Contractor shall perform receipt and inspection of selected incoming electronic instruments, equipment, and related materials purchased by the Government in accordance with NASA Handbook (NHB) 4200. Items to be inspected by the Contractor will be shipped directly to the Contractor's facility, where such inspections shall be performed. There were approximately 100 receipt and inspection reports processed in 1996. Services to be performed in this area shall include the following:
- 1.1.1 The Contractor shall inspect incoming items, and accept items that meet NASA contract or purchase order schedule; Prepare and distribute Receipt and Inspection Report (R&I LaRC Form 131), or changes thereto, and Receipt and Inspection Report Cancellation or Correction, LaRC Form (LF) 32 if required and complete applicable portion of **Work** Order and Shipping **Memorandum**, LF 165, or its electronic equivalent, which identifies the incoming shipment and all contents.
- 1.1.2 The Contractor shall attach appropriate Equipment Control Number (ECN) or Metrology Control Number (MCN) tags to accepted equipment.
- 1.1.3 The Contractor shall deliver all accepted instruments to **user** on site **at** LaRC after acceptance.
- 1.1.4 The Contractor shall pick-up contract/purchase order folders from the Acquisition Division (AD) file room when an item arrives for acceptance testing (see paragraph 2.1). The Contractor shall securely store all purchase order folders in its possession, and shall return the folders to the AD file room when acceptance testing is complete.
- 1.1.5 When items purchased by the Government do not pass acceptance testing and must be returned for repairs or replacement, the Contractor shall be responsible for:
 - -Contacting the supplier to determine method of shipment
 - -Preparation of the shipping request (Instrument Research Division (IRD) Form N-620]
 - -Obtaining approval from the Authorized Government Representative (AGR) and forward copies to Financial Management Division **(FMD)**, Logistics Management Office **(LMO)**, and **AD**
 - -Enclosing approved form with the contract/purchase order file
- 12 Pickup and Delivery: The Contractor shall establish a pickup and delivery service for all standards and instruments requiring repair or calibration under this contract. Equipment transported shall be physically handled in a manner commensurate with its size, weight, and sensitivity to shipping damage. This pick-up and delivery service shall be to and from NASA facilities, other local support service Contractor facilities, and occasionally remote facilities such as National Institute of Standards and Technology (NIST). A receipt method will be used to identry instruments submitted for

service and as subsequent evidence that the item(s) have been returned after service and return delivery is complete. The Contractor may use the existing receipt method or may implement their own with Government approval. All LaRC buildings are subject to periodic pickup and delivery, and daily service is required at Buildings 1236 and 1244. The Contractor shall establish a dispatch service at the Contractor facility to implement the pick-up and delivery service. The Contractor shall initiate task tracking and documentation, and perform the following tasks:

- 1.2.1 The Contractor shall receive and visually inspect each instrument, and shall initiate an IWO NASA Form 165, or an electronic equivalent, for each instrument submrtted for service. All IWO's will be documented by the Contractor in the INFOPC System for TAM or COTR review.
- 1.2.2 The Contractor shall affix ECN/MCN as required by LHB 5330.9 to all instruments received for service and update INFOPC records.
- 1.2.3 The Contractor shall generate a return shipping tag (NASA Form 162) and attach same to the equipment to **De** dispatched to the work area for services.
- 1.3 Operating an On-site Instrument Control Unit/Loan Pool: The Contractor shall operate LaRC's Instrument Loan Pool located on-site in Building 1230, Rooms 139/140, during the Government's first shift. The Loan Pool consists of Government-owned equipment; the Contractor will not be required to provide any instruments for use as part of the Loan Pool. Work to be performed includes the following:
- 1.3.1 The Contractor shall maintain accountability of instruments in loan pool inventory (approximately 5000 instruments). This effort includes the issuance and recall of instruments, deletion and addition of records to MET/TRACK® and loan pool dBase programs (maintained by the Government), and generation of recall notices on overdue inventory.
- 1.3.2 The Contractor shall advise users on instrument capabilities, applications, and proper usage.
- 1.3.3 The Contractor shall assure that the loan pool inventory is scheduled for calibration, and shall perform annual inventory of Instrument Loan Pool property as required by NHB 4200.
- 1.3.4 The Contractor shall process approximately **2500** LaRC Purchase Requests annually: this **shall** include the following: annotate for correct federal stock code, determine destination delivery (LaRC or Contractor facility), and code for inventory control.
- 1.3.5 The Contractor shall perform data entry into **NASA** Equipment Management System **(NEMS)** consisting of approximately 1000 monthly transaction updates (e.g. custodiar/user changes, location, etc.)
- 1.3.6 The Contractor shall operate, update records, and provide reports to TAMs as required by the Instrument Service Tracking Program (ISTP). The ISTP is a dBaselV application residing on a networked PC in ETTD. It downloads a monthly file from INFOPC, containing data on work completed that month. 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 Task Area Monitors. The reports generated by this application are used by the Task Area Monitors to assist in evaluating the Contractor performance.

- 1.4 Government Furnished Equipment (GFE) Maintenance and Repair: The Contractor shall develop and follow a program plan which maintains GFE in accordance with Section I clause 52.245-5, Government Property. Within 30 days after the award of this contract, the Contractor shall submit to the Contracting Officer a wrrtten maintenance program in sufficient detail to show the adequacy of the proposed program. If the Contracting Officer agrees to the proposed program, it shall become the normal maintenance obligation of the Contractor. The Contractor shall notify the TAM when maintenance in excess of the normal maintenance program is required. The Contractor shall keep records of all work done on the equipment and shall give the Government reasonable opportunity to inspect such records.
- 1.5 Operation and Maintenance of an Information Management System: The Contractor shall provide all necessary support for the operation and maintenance of the LaRC Metrology and Information System (INFOPC). INFOPC is an automated data processing system that is used to track, report, and store service history and metrology-related data for work performed under the contract (See Exhibit F for a description of the INFOPC System). This support shall consist of programming and system administration in an Advanced Revelation and Novell Network environment on a Local Area Network (LAN) located at the Contractor facility(s), Experimental Testing Technology Division (ETTD), and other ETTD support Contractor's sites. Services shall include the following:



- 1.5.1 The Contractor shall perform updates from NASA Equipment Management System (NEMS) and downloads to the WE6 database to insure systems congruency with the INFOPC.
- 1.5.2 The Contractor shall maintain Instrument Service History Records on the repair and calibration history for approximatety 80,000 instruments. Every instrument serviced that has a unique bar-coded number assigned, either an ECN or an MCN, shall have a record maintained that documents all repairs and calibrations.
- 1.5.3 The Contractor shall perform functions as outlined in Langley Handbook (LHB) 5330.9to insure effectiveness of and compliance with the LaRC instrument recall program. The Government will determine which instruments will be included in the recall system; approximately 1000 instruments are presently in the recall system. The Contractor shall notify LaRC staff that their equipment is due for calibration (the INFOPC System will track the due dates and generate the customer notices). The Contractor shall input data into the calibration recall data system, and provide a monthly report to the Metrology Manager listing all instruments due and their status.
- 1.5.4 At the conclusion of each month the INFOPC system creates a file containing the **records** for all IWO's completed during that month. The Contractor shall provide file transfer from INFOPC to the Instrument Scoring and Tracking Program (ISTP). This **file** is **used** by **the ISTP** to calculate timeliness and **quality** scores and to generate monthly reports for review by the **TAMs**.
- establish and maintain documented procedures for identifying, collecting, indexing, accessing, filing, storing, preserving, maintaining, and recording the disposition of records. The Contractor may use the existing configuration control process or may implement their own with Government approval. The Contractor's configuration management process shall insure that all modification/changes of shared modules at like Data Acquisition Systems (DAS) facilities are universally correct and run the same revision levels. Pertinent records from any subcontractor shall be an element of these data. All records shall be legible and shall be stored and retained in such a way that they are readily retrievable in facilities that provide a suitable environment to prevent their loss, damage or deterioration. The master configuration controlled media shall be maintained in a secure area (protected against fire, water, physical hazards, etc.) with data records of all hardware and software revisions/modifications and traceable histories back to Government official work requests. The configuration and quality control process shall insure protection/backup for catastrophic failure with no more than 4 hours down time after

all hardware has been successfully restored. Records shall be made available for evaluation by the Government representative for the length of the contract. The Contractor shall be responsible for the configuration management of approximately 35 research facility data acquisition and support systems.

- **1.7 Metrology** Engineering **Support:** Metrology Engineering Services consists of ongoing services in support of the maintenance, calibration, and repair function. These services contribute to the integrity of measurements, invokes the design of tests and methods by which the measurement and comparisons are made, and analysis of the results of the tests. The Contractor shall provide Metrology Engineering Support which shall include the following:
- 1.7.1 Consuttation regarding measurement practices, instrument application and providing specialized calibration capabilities as required.
- 1.7.2 Oversight and management of the development, modification, and documentation of required calibration procedures including software programs.
- 1.7.3 Oversight and management of the Contractor's participation in the NASA Measurement Assurance Programs (MAP)' as outlined in the NASA Metrology and Calibration Program Plan.
- 1.7.4 Participation in Metrology and Calibration Working Group (MCWG) This group is composed of representatives of all calibration Contractors at NASA centers. The Contractor shall travel to participate in the annual meetings at NASA's direction.

['MAP is a technique in which the user measures, using well defined procedures, an artifact 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.]

- 2. <u>CLIN 2 Instrument Support Services</u>: Work includes new instrument acceptance testing, instrument maintenance, calibration, and repair. Work under this CLIN will be performed (normalty at Contractor facility) as equipment is tendered for maintenance, calibration, and/or repair by the various end-users at LaRC. The specific requirements for each of these work areas are as follows:
- 2.1 Acceptance Testing of New Instruments Purchased by LaRC: Selected new instruments purchased by NASA, Langley Research Center, will be delivered to the Contractor's facility. A list of the representative types of equipment and the total number acceptance tested in 1996 is listed in Attachment 6. The Contractor shall inspect these instruments within 10 calendar days of receipt to insure compliance with the NASA procurement specifications for that specific procurement (contract or purchase order). The Contractor shall use standard techniques for instrument testing; devise new test techniques when no existing test standards apply; and analyze and document test results. If so directed by the COTR or TAM, the Contractor shall return instruments failing to comply with the NASA procurement specifications to the vendor.
- 14,000 instruments to be serviced yearly under this contract. The Contractor shall maintain adequate calibration procedures to ensure instruments are property certified according to the design specifications and stated manufacturer's accuracy. As a minimum, each instrument serviced or calibrated will be in accordance with standard calibration policies, procedures and practices described in ANSI/NCSL Z540-1-1994 and LHB 5330.9 (1996). The Contractor shall repair, modify, assemble, and maintain Government research instrumentation to meet manufacturer's or Government's specifications. The Contractor shall acquire repair parts and maintain an inventory of common usage items (spares) for performance of the

above services. The Contractor shall contact the instrument manufacturer or authorized representative to provide repair of defective instrumentation that is under warranty. The Contractor shall provide services which consist of the following actions

- 2.2.1 The Contractor shall prepare and affix the appropriate NASA/LaRC calibration label to each instrument serviced. Calibration labels shall be furnished by the Contractor in accordance with LHB 5330.9 (1996).
- 2.2.2 The Contractor shall affix seals where needed on calibrated instruments to inhibit or detect unauthorized entry into an instrument.
- **2.2.3** The Contractor shall maintain calibration procedures and maintenance manuals at the Contractor's facility, and shall provide LaRC with an electronic index of this information. These procedures and manuals shall **be** the property of the Government, and shall **be** turned over *to* the Government at the conclusion of contract.
- 2.2.4 The Contractor shall evaluate IWO's to determine economy of repairs: those exceeding forty percent (40%) of the replacement costs of an instrument shall constitute the point at which the decision shall be made as to whether the unit is "beyond economical_repair" (BER) At !his point the COTR or the TAM shall be notified to determine the disposition of the instrument.
- 2.2.5 The Contractor shall obtain prior wrrtten approval from the COTR for all repairs where **costs** are estimated to exceed \$800. The Contractor shall be responsible for informing the customer, and providing the necessary information to the COTR for repairs above \$800.
- **2.2.6** The Contractor shall design and fabricate unique test devices, setups, accessories, or equipment, including software development for automated test stands.
- shall be performed in the following areas: Application of Sensors, Transducers, and Instruments; Evaluation of Measurement Requirements for Sensors, Transducers, Instruments and Data Acquisition Systems; Design, Furnish, and Install Data Acquisition Systems; Modify and Upgrade Data Acquisition Systems; Test Techniques Development; Analysis of Measurement Data; Off-Site Data Acquisition and Analysis; On-Site Data Acquisition and Instrumentation Systems Operations; System Administration; Documentation of Hardware and Software Configurations, System Operational Procedures, Test Procedures and Results; and Training. Work under this CLIN may take place at ANY on-site facility at LaRC (including the National Transonic Facility), and at off-site locations. Work under this CLIN with an estimated labor cost of \$10,000 or less and an estimated parts/materials cost of \$20,000 or less shall be issued via an ESR approved by the COTR or one of the TAMs. Work under this CLIN that exceeds these limits shall be issued under a Task Order signed by the Contracting Officer. The specific requirements for each of these work areas are as follows:
- 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. Specific requirements under this work element will be delineated in performance-based **ESR/Task** Orders.
- Instruments and Data Acquisition Systems: The Contractor shall evaluate measurement and test requirements obtained from LaRC documentation. meetings, 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 develop recommendations for best STI and DAS solutions. Recommendations may require data on purchase, delivery, installation, application, maintenance, and test techniques required to meet the specified measurement objectives. Recommendations my require tradeoff analysis and cost/benefits comparisons. Recommendations may require analysis of

measurement error and measurement uncertainty Recommendations shall be written and in accordance with specified NASA documentation standards. The Contractor shall provide the *most cost* effective, reliable and accurate recommendations *to* accomplish this work element. Specific requirements under this work element will be delineated in performance-based ESR/Task Orders.

- design, furnish, and install DAS and associated interfaces to facility control systems instrumentation to meet the schedule, cost, and performance requirements delineated in performance-basedESR's/Task Orders. The design shall include the delivery of design documentation to all specified levels (e.g. detail design level) and standards (e.g. NASA Software Documentation Standard), inclusive of acceptance and integration/test plans. The design shall include the delivery of a detailed work breakdown structure itemizing the resources, schedule, and dependencies of all work elements. The design shall conform to all initial conditions, constraints, and/or design approaches. The Contractor may be required to furnish operational prototypes and/or final products. The Contractor may be required to procure any/all hardware and/or software for Government-accepted designs. The Contractor may be required to remove any existing systems and install any new systems and/or components, in accordance with manufacturer and NASA procedures. 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 schedule. The Contractor shall also attend regularly scheduled design/status review meetings to report work accomplished under this element.
- Modify and Upgrade Data Acquisition Systems: The Contractor shall modify and upgrade DAS, including the INFOPC System, and associated DAS interfaces to facility control systems instrumentation to meet the schedule, cost, and performance requirements delineated in performance-based ESR's/Task Orders. The system upgraded modifications shall include the delivery of design documentation to all specified levels (e.g. detail design level), standards (e.g. NASA Software Documentation Standard) and integration/test plans. The upgradedmodifications shall include the delivery d a detailed work breakdown structure itemizing the resources, schedule, and dependencies of all work elements. The upgradedmodifications shall conform to all initial conditions, constraints, and/or design approaches. The Contractor may be required to furnish operational prototypes and/or final products. The Contractor may be required to procure any/all hardware and/or software for Governmentaccepted designs. The Contractor may be required to remove any existing systems and install any upgraded/modified systems and/or components, in accordance with manufacturer and NASA procedures. 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 attend regularly scheduled design/status review meetings to report work accomplished under this element.
- a.5 Test Techniques Development: The Contractor shall 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 may be to the level required for publication of formal papers. This work element 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. Specific requirements under this work element will be delineated in performance-based ESR's/Task Orders.
- 3.6 Analysis of Measurement Data: The Contractor shall perform data analysis of aeronautical, acoustics, and structural test data (and related disciplines) as delineated in performance-based ESR'S/Task Orders. The Contractor shall analyze research data according to stated or derived research specifications and shall optimize all data analysis processes for cost effectiveness and accuracy. The Contractor shall provide complete documentation of the analysis of data to include: data records. processes, calculation/equations, calibrations, results, and methods used for verifying data

Ĺ

ĺ

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.

- 3.7 Off-site Data Acquisition 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 in a cost effective, efficient, and responsive manner as delineated in performance-based ESR's/Task Orders. This work will primarily be in support of acoustics field tests, Light, Distance and Ranging (LIDAR) operations, and other related field tests where portable data acquisition systems, instrumentation systems, and special analysis software will be developed, operated, and maintained. The Contractor shall develop, maintain, and execute documented procedures for setup, calibration, operation, data analysis, testing and maintenance of field test hardware and software systems, including software applications (operating systems, acquisition and computational software), to insure optimum productivity, security and system readiness.
- 3.8 On-Site Data Acquisition and Instrumentation Systems Operations: The Contractor shall perform on-site operation of data acquisition and measurement systems. Some systems will be of a prototype or unique nature where initial performance analysis is required to perform desired system enhancements. Other situations will require single or multiple shift operation of data acquisition and measurement systems. Specific requirements under this work element will be delineated in performance-based ESR/Task Orders.
- 3.9 System Administration: The Contractor shall provide operating system software maintenance, technical support and consulting, performance measurements and tuning, and access control associated with all supported and developed system(s) software. The Contractor shall provide system administration for approximately 35 research data acquisition and support systems.
- **3.9.1** Operating System Software Maintenance: The Contractor shall perform all required planning, associated training, and testing of operating system software releases prior to implementation. All operational software release/software upgrade shall be accomplished by the Contractor through planning, scheduling, and implementation activities.

The Contractor **shall** 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. The Contractor shall formulate, test, and apply fixes for all in-house developed and maintained software. Operating system software failures and impacts shall be appropriately documented and tracked in a problem reporting system.

The Contractor **shall** notify the Government of the availability of **updates** and **successor products** to the installed system software. The Contractor shall provide updates of the **current** licensed and installed system software for all applicable systems. This update shall also include corrective action and enhancements to system software.

The Contractor shall provide a convenient method of accessing **readable** source code, **if** available, for all software products for which the Government has obtained source code licenses. The **source** code shall be readily available to Government and other Contractor personnel.

The Contractor shall acquire and maintain reference documentation and/or arrange for reference services appropriate to accomplishing the operating system software maintenance function.

The Contractor **shall** implement all configuration management and . **security controls** associated with or affected by operating system software maintenance **functions**.

3.9.2 Technical Support and Consulting: The Contractor shall provide technical support, consulting, and coordination to ensure orderly system implementation, integration, and operation of operating system software

The Contractor shall conduct performance analysis and tuning on each of the operating system software components, and shall implement changes to meet performance requirements.

The Contractor shall administer user accounts and provide password services as required. The Contractor shall collect, analyze, and report information relevant to the management of system access. The Contractor shall implement access security control processes that shall be periodically reviewed and validated.

3.10 Documentation of Hardware and Software Configurations, System Operational Procedures, Test Procedures and Results: The Contractor shall provide complete and formal documentation, in a timely manner, for all facets of work performed under this contract. All documentation shall be concise, complete and easy to use in the maintenance and operation of research data systems and test procedures. All documentation shall be provided in conformance with specified NASA documentation standards (Contract Exhibit G). The Contractor shall maintain documentation records (i.e., database or equivalent) associated with past or current work requests and shall provide to the Government ESR/Task Order related documentation upon request as specified in performance-based ESR/Task Orders.

The Contractor shall establish and maintain documented procedures to document, control and verify that the Contractor's products and deliverables meet the specified work requirements. 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. Documents and data shall be in the type of media specified in performance-based ESR's/Task Orders.

The documents and data shall be reviewed and approved for adequacy by authorized Government personnel prior to issue. A master list or equivalent document control procedure identrfying the current revision status of documents shall be established and be readily available to preclude the use of invalid and/or obsolete documentation. The control 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 promptty 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.

Changes to documents and data shall be reviewed and approved by the same functions/organizations that performed the original review and approval, unless **specifically** designated otherwise. The designated functions/organizations shall have 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.

The Contractor shall establish, maintain, and apply acceptable 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. Where appropriate the Contractor **shall** establish and

maintain documented procedures for identifying the product **by** suitable means from receipts and during all stages of production, delivery, and installation.

- 3.11 Training: The Contractor shall provide as requested in performance-based ESR's/Task Orders, user training in support of all systems and services for all applications, products, and services delivered under this contract. This training shall include user and operational training on data acquisition and instrumentation systems.
- 4. <u>CLIN 4 On-site Instrument Services and Digital Systems Support Services</u>: The Contractor shall provide on site service for emergencies, short duration tasks, or services that require immediate attention on equipment that is not readily transportable or that must be serviced on-site. Specific tasks shall be initiated when a service call is received and documented on an IWO. When the work is complete, an evaluation form shall be left with the user requesting the service. Multiple shift and off-hours support shall be provided. The Contractor shall provide 30 minute on-site priority response during first and second shifts (7:30 a.m. 12:00 midnight Mon. Fri.), and 60 minute on-site priority response during third shift (12:00 midnight to 7:30 a.m.), weekends (12:00 midnight Friday to 12:00 midnight Sunday) and Government holidays. A list of priority facilities will be provided quarterly. The Contractor shall provide on-site maintenance service and emergency repair, for digital systems, computer systems, and instruments as described below:
- hardware and software maintenance and repair of approximately 1000 computer systems used for scientific and research applications. The systems include approximately 5000 peripherals. The current inventory includes 35 MODCOMP-based data acquisition systems, 70 graphics/high end workstations from various manufactures (DEC, HP, SUN, and others), 125 Mini/Micro computer-based systems from various manufactures (HP, DEC, Concurrent, and others), 750 personal computer systems from various manufacturer's (PC/MAC) used for data acquisition, controls and other scientific applications. The required maintenance includes hardware/software diagnosis and repairs, and hardware/software upgrades to current revision levels, when required. The Contractor shall repair the hardware onsite, when practical, to minimize system downtime. The Contractor shall respond to routine (non-priority) service requests within 24 hours of service request initiation.
- **4.2** Computer Systems Services: The Contractor shall provide computer system services including receipt and inspection, installation, configuration control, maintenance of diagnostics, systems integration, performance testing, and system documentation (hardware and software).
- **4.3** On-Site Instrument Service and Emergency Repair: On-site service and emergency repair includes, but is not limited to, magnetic tape and chart recorders, Electronically Scanned Pressure (ESP) systems, Neff **DAS** and **DAS** sub-systems, and the effective usage of two Government-provided mobile calibration carts to perform on-site calibrations of facility test equipment. This will involve between 3000-4000 instruments per year, which are included in the total estimated number of 14,000 instruments serviced annually. The Contractor **shall** schedule and utilize mobile calibration carts to maximize service to major facilities and minimize interruptions of normal tunnel operations.

SECTION D - PACKAGING AND MARKING

D.I PACKAGING AND MARKING

The Contractor shall package, handle, and transport all items under this contract in an appropriate manner based on the fragility and/or sensitivrty of each individual item. Particular care shall be taken to ensure that shipping or handling does not compromise the accuracy of instruments being transported under the contract.

SECTION E - INSPECTION AND ACCEPTANCE

E.1 FINAL INSPECTION AND ACCEPTANCE (LARC 52.246-94) (OCT 1992)

Final inspection and acceptance of all **items** specified for delivery under this contract shall **be** accomplished **by** the Contracting Officer or his duly authorized representative at destination.

SECTION F - DELIVERIES OR PERFORMANCE

F.1 PERIOD OF PERFORMANCE

The period of performance ${\bf d}$ this contract shall **be** 12 months from the effective date of the contract.

F.2 PLACE OF DELIVERY (LARC 52.21 1-92) (OCT 1992)

Delivery **shall be f o.b.** destination:

As specified in Task Orders and ESR's.

F.3 PLACE(S) OF PERFORMANCE (LARC 52.21 1-98) (OCT 1992)

The place(s) of performance shall be:

NASA, Langley Research Center, Hampton, Virginia; the Contractor's facilities; and other sites as may be designated by Task Order **c** ESR.

SECTION G - CONTRACT ADMINISTRATION DATA

- G.I DESIGNATIONOF NEW TECHNOLOGY REPRESENTATIVE AND PATENT REPRESENTATIVE (NASA 1852.227-72) (APR 1984)
- (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:

<u>Title</u>	Office Code	Address (including zip code)
New Technology Representative	212	NASA, Langley Research Center Harnpton, VA 23681-0001
Patent Representative	212	NASA, Langley Research Center Hampton, VA 23681-0001

(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. Inquiries 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 18-27.375-3 of the NASA FAR Supplement.

G.2 SUBMISSION OF VOUCHERS FOR PAYMENT (NASA 18-52.216-87) (DEC 1988)

(a) Public vouchers for payment of costs shall include a reference to this contract NAS1-____, your Taxpayer Identification Number and be forwarded through:

NASA Langley Research Center Attn: Financial Management Division, MS 175 Hampton, VA 23681-0001

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

- (b) The Contractor shall prepare vouchers as follows:
- One original Standard Form (SF) 1034, SF 1035, or equivalent Contractor's attachment.
 - (2) Seven copies of SF 1034A, SF 1035A, or equivalent Contractor's attachment.
- (3) The Contractor shall mark SF 1034A copies 1, 2, 3, 4, and such other copies as may be directed by the Contracting Officer by insertion in the memorandum block the names and addresses as follows:
 - (i) Copy 1 NASA Contracting Officer:
 - (ii) Copy 2 Auditor;
 - (iii) Copy 3 Contractor
 - (iv) Copy 4 Contract administration office; and
 - (v) Copy 5 Project management office (when required by the NASA

Contracting Officer).

(c) Public vouchers for payment of fee \mbox{shall} be prepared $\mbox{similarly}$ and be forwarded through:

NASA Langley Research Center Attn: Financial Management Division, MS 175 Hampton, VA 23681-0001

This is the designated billing of fee for fee vouchers for purposes of the prompt payment clause of this contract.

G.3 LIST OF GOVERNMENT-FURNISHED PROPERTY (NASA 18-52.245-76) (OCT 1988)

For the performance of work under this contract, the Government will make available Government property identified in Exhibit C 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 facilities and at other location(s) as may be approved by the Contracting Officer. Under the FAR **52.245-2** Government Property clause of this contract, the Contractor is accountable for the identified property.

G.4 LIST OF INSTALLATION-PROVIDED PROPERTY AND SERVICES (NASA 18-52.245-77) (MAR 1989)

In accordance with the Installation Provided Government Property clause of this contract, the Contractor is authorized use of the types of property and services listed below, to the extent they are available, while on-site at the **NASA** installation.

- (a) Office space, work area space, utilities and existing furniture. The Contractor shall use Government telephones for official purposes only.
- (b) Existing general- and special-purpose equipment.
- (1) Existing equipment to be made available to the Contractor for use in performance of this contract on-site and at such other locations as approved by the Contracting Officer is listed in Exhibit B. The Government retains accountability for this property under the Installation-Provided Government Property clause, regardless of its authorized location.
- (2) The Contractor shall not acquire property as a direct cost under this contract unless expressly authorized by the Contracting Officer. When authorized, this property also shall become accountable to the Government upon its entry into the NASA Equipment Management System (NEMS) in accordance with the property-reporting requirements of this contract.
- (3) If the Contractor brings property owned or leased by the Contractor on-site for use under this contract, such property shall be tagged or otherwise marked to identify the owner.
- (c) Institutionalfire and security protection on-site at LaRC.
- (d) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.
- (e) Cafeteria privileges for Contractor employees during normal operating hours.
- (f) Building maintenance for on-site facilities occupied by Contractor personnel.
- (g) Moving and hauling of Government Furnished Equipment
- (h) Liquid Nitrogen (LN2) as required for the performance of work under the contract.
- (i) The responsibilities of the Contractor as contemplated by paragraph (a) of the Installation-Provided Government Property clause are defined in the following property management directives and installation supplements to these Directives:

- (1) NHE 4200 1 NASA Equipment Management Manual
- (2) NHE 4200 2. NASA Equipment Management System (NEMS) User's Guide for Property Custodians
- (3) NHB 4300 1, NASA Personal Property Disposal Manual.
- (4) NHB 4100 1, NASA Materials Inventory Management Manual.

G.5 PROVIDING FACILITIES TO CONTRACTORS

- **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-shetf 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.3 and Exhibit C, as well as G.4 and Exhibit B. (Please note that Exhibit C also lists Special Fast Equipment, which is not included in the definition of "facilities".) Any of these existing facilities 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.
- D. The equipment which comprises the Equipment Loan Pool (CLIN 1) will be provided by the Government, including any new or replacement items. The Government will determine if and when new or replacement items are needed for the Equipment Loan Pool. The Contractor may make suggestions concerning new or replacement items based **on** their working knowledge of user demand, and shall keep the Government informed as to the condition of the Loan Pool items.

G.6 ORDERING PROCEDURES

A. Instrument Work Orders

All work under CLIN 2 is initiated, tracked, and documented on an IWO NASA Form 165 or an electronic equivalent. All IWO's will be initiated by user request, either written or verbal, and then documented by the Contractor in the INFOPC system for COTR or TAM review. Most work under CLIN 2 will consist of the placement of an instrument at a designated pick-up point with a NASA FORM 145 filled *out* by the end user and attached. In facilities with daily scheduled visits, pick-up is automatic; in others, pick-up is initiated by calling the Contractor's dispatcher service. IWO initiation occurs when the item arrives at the Contractor's facility. Under CLIN 4, IWO initiation occurs when a service call is received. The Contractor is responsible for obtaining and entering the proper information into the INFOPC system for all IWO'S generated. The information for all IWO's shall include, but not be limited to: equipment identification, customer name, initiation date, priority, service requested, required completion date, and itb order number.

B. Engineering Service Requests

All work under CLIN 3 with a loaded labor cost estimate of \$10,000 or less AND an estimate for parts and materials of \$20,000 or less is initiated, tracked, and documented on an Engineering Service Request (ESR). The Contractor will identrfy the customer, document the requirements, initiation date, priority, delivery schedule and estimated resources required to accomplish the work. The Contractor will enter information for quick turn around work under CLIN 3 into the INFOPC system for review and approval by the COTR or TAM prior to commencing work. Work in this category that is deemed urgent/emergency (e.g., work stoppage in the facility) may begin without a formal ESR, provided the COTR or TAM is informed within one working day.

C. Task Orders

Ail work under CLIN 3 that exceeds the limits of an ESR will be issued by the Contracting Officer via a wrrtten Task Order. Task Orders will be accomplished in two phases. The first phase will involve a planning Task Order or ESR. depending upon the size of the planning and estimating effort, to determine preliminary requirements, staffing requirements, preliminary top level design, schedule, proposed costs, and other factors. The output of the planning Task Order will be a project proposal. The second phase will be the actual implementation Task Order for the designing, furnishing, installing, and maintaining of the product or services.

Work of this type will be initiated on a Task Order Request Information Form, which will be prepared jointly by the customer and TAM. The form will then be submitted to the Contractor for preparation of a project proposal. During development of the Task Order Request (TOR) the Government and the Contractor shall discuss the following: task requirements, top level design, Contractor's proposal to accomplish the task, and required schedule. The Contractor's project proposal will address these factors and shall be completed by the Contractor within a schedule agreed to by the customer, TAM, and Contractor and submitted to the TAM for review.

After the customer and TAM review and approve the project proposal, a TOR approval page with appropriate signatures for the project will be submrtted along with the Task Order proposal for Contracting Officer approval. The TOR will include the Task Order Fee Arrangement (TOFA) and designation of Task Criticality. Each Task Order will identify the work to be performed, performance metrics, the location of the work, a delivery schedule, a cost limitation, and an appropriate amount of award fee based on the ESTIMATED (not actual) cost of the Task Order (See 8.3, Award Fee Availability Schedule), and will include the Contracting Officer's signature. The Contractor shall acknowledge receipt and acceptance of each Task Order within three working days after receipt. If the Contractor cannot comply with a Task Order requirement, the Contractor shall so indicate in the receipt acknowledgment, and shall noted the changes required for acceptance. Any differences must be resolved between the parties and the order modified to reflect the agreement. Any required modifications to the Task Order during the performance period will approved through the same process described above, except that a separate planning Task Order or ESR will not be required.

Two copies of each Task Order will be furnished to the Contractor, one shall be retained by the Contractor and one shall be returned to the Contracting Officer Technical Representative upon completion of the work specified therein, containing, as applicable, actual completion dates and/or delivery dates, actual man-hours expended, actual material and labor costs incurred, and any remarks which the Contractor may wish to make with respect to his performance thereunder.

D. Contract Scope

If any work issued is considered by the Contractor to be outside the scope **of** this contract, or if **the** Contractor has reason *to* believe that he will exceed the scope **of** his contractual obligation (**e.g.** contract funding, contract estimated cost) in the performance thereof, the Contractor **shall** immediately **notify** the Contracting Officer in writing, and shall not perform any work pending resolution by the Contracting Officer.

G.7 INVOICES AND PAYMENTS (LARC 52.232-96) (OCT 1992)

- A. General--Invoices shall be addressed as shown in Block 25 on page 1 of this contract and shall be identified by the contract number. Cost and fee invoices shall be submitted separately.
 - **6.** Cost–Payments of cost shall be made in monthly installments.
 - C. Cost invoices shall be submitted through the delegated Government Audit Agency.

D. Payments of award fee shall be made in response to and in the amount of the Fee Determination Official's wrrtten Notice of Award Fee as **set** forth in paragraph 1.16. Payments of award fee (and base **fee**, as applicable) are **subject** to the wrthholding provisions of the Section I clause entitled 'Award Fee.'

G.8 CONTRACT CLOSEOUT (LARC 52.242-90)(JUN 1988)

- A. Reassignment--After receipt, inspection, and acceptance by the Government of all required articles and/or services, and resolution of any pending issues raised during the **Period** of Performance, this contract will be reassigned to the NASA Langley Research Center Contracting Officer for Contract Closeout. All transactions subsequent to the physical completion of the contract should, therefore, **be** addressed to the said Contracting Officer at NASA Langley Research Center, Mail **Stop 126**, who may **be** reached by telephone at (757)864-7765.
- 8. 'Quick Closeout'--Paragraph (f) of the Allowable Cost and Payment clause of this contract addresses the 'Quick Closeout Procedure' delineated by Subpart 42.7 of the Federal Acquisition Regulation (FAR). It should be understood that the said procedure applies to the settlement of indirect costs for a specific contract in advance of the determination of final indirect cost rates when the amount of unsettled indirect cost to be allocated to the contract is relatively insignificant. Therefore, the 'Quick Closeout' procedure does not preclude the provisions of paragraph (d) of the Allowable Cost and Payment clause nor does it constitute a waiver of final audit of the Contractor's Completion Voucher.
- C. Completion Voucher Submittal--Notwithstanding the provisions of the Allowable Cost and Payment clause, as soon as practicable after settlement of the Contractor's indirect cost rates applicable to performance of the contract, the Contractor shall submit a Completion Voucher as required by the aforesaid clause. **The** Completion Voucher shall be supported by a cumulative claim and reconciliation statement and executed NASA **Forms** 778, Contractor's Release, and 780, Contractor's Assignment of Refunds, Rebates, Credits, and Other Amounts. Unless directed otherwise by **the** Contracting Officerfor Contract Closeout, the Contractor **shall** forward the said Completion Voucher directly to the cognizant Government Agency to which audit functions under the contract have been delegated.

SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.I RIGHTS TO PROPOSAL DATA (TECHNICAL) (FAR 52.227-23) (JUN 1987)

Except for data contained on pages N/A ± 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 (asdefined in the 'Rights in Data - General' clause contained in this contract) in and to the technical data contained in the proposal dated January 5,1998, upon which this contract is based.

H.2 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 all prospective offerors is invited to FAR Subpart 9.5--Organizational Conflicts of Interest.
- (b) The nature of this conflict in the performance of work under the contract involves the participation by the Contractor in the development of requirements and specifications for both software and hardware systems.
- (c) The restrictions upon future contracting are as follows:
- (1) If the Contractor, under the terms of this contract, or through the performance of tasks pursuant to this contract, is required to develop specifications or statements of work that are to **be** incorporated into a solicitation, the Contractor shall be ineligible to perform the work described in that solicitation as a prime 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 (this time shall in no case be **less** than the duration of the initial production contract). NASA **shall** not unilaterally require the Contractor to **prepare such** specifications or statements of work under this contract.
- (2) 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 such data remains proprietary or confidential, the Contractor shall protect these data from unauthorized use and disclosure and agrees not to use them to compete with those other companies.

H.3 COMMERCIAL COMPUTER SOFTWARE AND SYSTEMS

The Contractor warrants that the items delivered under this contract/order are merchantable and fit for the particular purpose described in the contract/order, to include accurate performance in the processing of date and date related data (including **but** not limited to calculating, comparing and sequencing) by all hardware and software products delivered, individually and in combination, upon installation. This performance includes the manipulation of this data with dates prior to, through, and beyond January 1, 2000, and shall be transparent to the user.

Hardware and software products, individually and in combination, shall successfully transition into the Year 2000 with the correct system date without human intervention, including leap year calculations. Hardware and software products, individually and in combination, shall also provide correct resutts when moving forward or backward in time across the Year 2000.

H.4 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 **d** 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	<u>Monetary Waae</u>
Contract Manager	\$30.27/hr.
Metrology Engineer	\$25.61/hr.
Engineer	\$25.61/hr.
Acoustical Engineer	\$25.61/hr.
Laser Optical Engineer	\$25.61/ hr .
Digital Systems Engineer	\$21.59/hr.
Systems Analyst/Programmer	\$21.59/hr.

	\$17.97/hr.
	\$14.85/hr.
Senior Engineering Technician	\$17.97/hr.
Engineering Technician	\$12.14/hr.
Calibration Technician	\$10.93/hr.
Electronics Technician	\$1 6.36/h r.
Machinist	\$14.52/hr.
Production Control Specialist	\$1 4.85/hr .
Clerk	\$11. 46/ hr.
Technical Editor	\$14.85/hr.

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

Holidays

- Receives 13 days paid leave per year.

*~?a

Receives 10 paid holidays per year.

The state of the s

-2

Heatth Insurance を持います

1 - Government pays up to 60% of health insurance.

Group Life Insurance

THE RESTRICT

- Government pays two-thirds of life insurance rate premiums.

Retirement

THE RESERVE TO SERVE THE PARTY OF THE PARTY

A.A. MAKE

The Government provides three retirement plans identified as the Civil Service matirement System (CSAS), 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, 62% to Social Security, 1.45% towards Medicare, and 1% (plus statching contributions of up to 4% of basic pay, depending on employees' contributions) to a thrift savings plan. Under the CSRS Offset, the contributes as of the employees' base pay towards the retirement benefit, 6.2% to Social Security, and 1.45% towards Mandad. CONT.

A STATE OF THE STA

St. Committee

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.

H.5 OPTION TO EXTEND THE TERM OF THE CONTRACT (FAR52.217-9) (MAR1989)

- The Government may extend the term of this contract by unilateral written notice to the Contractor within the current contract period **f performance**
- If the Government exercises this option, the extended contract shall be considered to include this option provision. Her also way.
- The total duration of this contract, including the exercise of any options under this clause, shall not exceed 60 months.



H.6 OPTIONS

A. Priced Options/Extended Term

Pursuant to H.5, 'Option to Extend the Term of the Contract (MAR 1989)", the Contractor hereby grants to the Government options to extend the term of the contract for 4 additional periods of 12 months each. Such options are to be exercisable by issuance of a unilateral modification. Upon exercise of such option(s) by the Government, the following items will be increased by the amount specified below for each option period.

ltem	First Option Period	Second Option <u>Period</u>	Third Option Peried	Fourth Option Period
Perricd of Performance (Ref. F.1)	12 Months	12 Months	12 Months	12 Months
Estimated Cost (Ref. 6.2)				
CLIN 1	\$	\$ *********	\$ -	\$
CUN 2	\$	\$		
CUN 3		:		
CUN4	\$	\$		\$
Award Fee (Ref. 8.2)				
CUN 1	\$	S	\$	\$
CUN 2	\$	S APPROVED	S. CORP.	S
CUN 3		3-1		
CLIN 4		\$		3
Award Fee Availability (Ref. B.3)				
Period 3 (4/1/99 - 9/30/99)				
CUN 1	\$			
CUN2	\$			
CLIN 3	TBD			
CUN4	\$			

<u>ltem</u>	First Option Period	Second Option Period	Third Option <u>Period</u>	Fourth Option <u>Period</u>
Period 4 (10/1/99 - 3/31/00)				
CLIN 1	\$300,-000			
CLIN 2	3			
CLIN 3	TBD			
CLIN 4	S			
Period S (4/1/00 - 9/30/00)	● (** - ***) 3 (*)			
CLIN 1		Section		
CLIN 2		SERVICE AC.		
CLIN 3		TBD		
CLIN 4		\$.		
Period 6 (10/1/00 - 3/31/01)				
CLIN 1		\$2		
CLIN 2		\$		
CLIN 3		TBD		
CLIN 4		\$-		
Period 7 (4/1/01 - 9/30/01)				
CLIN 1				
CLIN 2			\$.	
CLIN 3			TBD	
CLIN 4				

<u>Item</u>	First Option <u>Period</u>	Second Option Period	Third Option Period	Fourth Option <u>Period</u>
Period 8 (10/1/01 - 3/31/02)				
CLIN 1			\$	
CLIN 2		ige to 1552	3444	
CLIN 3			TBD	
CUN 4				
Period 9 (411102 - 9/30/02)				
CUN 1	သန်းက ကာလသည် 🛍 👡 ပြုပြုသည် (၁၂၄) မောက်ကို 🕸			3
CLIN 2				\$
CLIN 3				TBD
CUN 4				33,000
Period 10 (10/1/02 - 3/31/03)				
CUN 1				
CLIN 2		,		Succession and
CLIN 3				TBD
CUN 4				***************************************

H.7 CONTRACTOR EMPLOYEES SECURITY CLEARANCE (LARC 52.204-90)

By virtue of their particular work assignment, certain Contractor employees, may be required to have a security clearance granted in accordance with the National Industry Security Program Operating Manual (NISPOM) dated March 14, 1996. Clearances will be issued by the Department of Defense (DOD). Within 10 working days after an employee is identified by the Government and/or the Contractor as requiring a SECRET or higher clearance, the Contractor shall submit to the Contracting Officer evidence of the submittal of a request for clearance to DOD for such employee. If the clearance for an employee has not been issued by DOD within 120 calendar days of the submittal of the request for clearance to DOD, the Contractor may be required to remove the employee from the contract.

H.8 SECURITY PROGRAM/FOREIGN NATIONAL EMPLOYEE INVESTIGATIVE REQUIREMENTS (LARC 52.204-91) (NOV 1991)

Prior to reporting to Langley Research Center (LaRC) to perform under a contract or grant, each Foreign National shall have approval for access to LaRC facilities from NASA Headquarters, International Relations Division (Code XID). A copy of the access authorization request shall be provided to the LaRC Chief of Security. Additionally, an investigation by the Government shall be completed on each Foreign National Contractor prior to reporting to LaRC to perform under a contract or grant. A properly executed 'Name Check Request' (NASA Form 531) and a completed 'applicant' fingerprint card shall be submitted to the LaRC Security Office, Mail Stop 182, for each Foreign National Contractor at least 75 days prior to the estimated entry on duty date. The NF 531 and fingerprint card may be obtained from the LaRC Security Office. If the access approval is obtained from NASA Headquarters prior to completion of the investigation, and the Contracting Officer requires a Foreign National to work on LaRC, an escort requires may be considered by the LaRC Chief of Security.

H.9 OBSERVATION OF REGULATIONS AND IDENTIFICATION OF CONTRACTOR'S EMPLOYEES (LARC 52.211.4.4) (MAR 1992)

- A. Observation or 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.
- 8. IdentificationBadges--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 Contract 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 4:30 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 after employee termination or contract completion, badges shall be returned to the NASA Contract Badge and Pass office.

H.10 INCORPORATION OF SECTION KOFTHE PROPOSAL BY REFERENCE (LARC 52.215-107) (MAR 1989)

Pursuant to FAR 15.406-1 (b), the completed Section **K** of the proposal dated January 5, **1998** is hereby incorporated herein by reference.

H.11 VIRGINIA AND LOCAL SALES TAXES (LARC 52.229-92) (APR 1992)

To perform this contract, the Contractor must be knowledgeable of relevant state and local taxes when making purchases of tangible personal property. The Contractor shall refrain from paying inapplicable taxes or taxes where an exemption exists, but shall pay applicable taxes that are reimbursable pursuant to FAR 31.205-41, Taxes. Even though title to property purchased under this contract may pass to the Government and the price is reimbursable under contract cost principles, such transactions do not in themselves provide tax immunity to the Contractor. Therefore, within 30 days after the effective date of this contract, the Contractor shall request from the Virginia State Tax Commission a ruling on any tax exemptions that may be applicable to purchases made under this contract. The Contractor shall provide all facts relevant to the situation and shall pursue an interpretation of the law that is most favorable to both the Contractor and the Government.

H.12 ADVANCE AGREEMENT ON INDIRECTRATE(S) (LARC 52.231-90)(JUN 1988)

A. Notwithstanding the prowsions of the Section I clause entitled 'Allowable *Cost* and Payment,' the Contractor will be reimbursed at the indirect ceiling rates specified below or the actual rates, whichever are less, for each of the Contractor's fiscal years applicable to this contract. The Contractor's fiscal year is January 1 through December 31. Any costs that are not reimbursed due to the ceilings shall be deemed unallowable costs. These unallowable costs shall not be recovered under this or any other Government contract.

year	Indirect Cost Pool	Ceilina Percentaae *	Allocation Base
1998	General	1888 %	Total Direct
1999		*** **	and Indirect
2000	and	482 %	Costs
2001		***	(Excluding G & A)
2002	Administrative (G & A)		
2003	,	3330%	

- in the event of a significant reduction of the contract effort due to Government actions or Agency budget constraints; or termination under the general provisions, the Contractor shall submit a proposal for adjustment of the ceiling. In the event that the parties cannot agree on new ceilings, the Contracting Officer may equitably adjust the ceilings.
- practices and accounting system in effect on January 5,1998. If the Contractor changes its accounting practices or accounting system in any way, the Contractor will immediatety **notify** the Government. Within 30 days of such change the Contractor shall present to the Contracting Officer information that demonstrates that the change will not impact the allowable cost computed using the above rates or shall submit a proposal for adjustment of the ceilings so that the total costs allowable will not exceed the **total** costs that would have been allowable had the Contractor not changed its accounting practices or accounting system. In the event that the parties cannot agree on new ceilings using the Contractor's new accounting practices or system and the Contractor does not agree to return to the previous accounting practices and system, the Contracting Officer may equitably adjust the ceilings.

H.13 QUALITY MANAGEMENT SYSTEM (ISO-9000) REQUIREMENTS

A. ISO Certification

No later than 12 months after award of the contract, the Contractor and all major subcontractors, as applicable, shall be certified by a third-party registrar as compliant with the appropriate standard contained in the current version of the ISO 9000 Standard Series or the American National Standards Institute/American Society for Quality Control's "Q9000 Series" and associated documentation. The Contractor and all Major Subcontractors, as applicable, shall maintain their registration during the contract term, including any extensions. Failure to maintain the appropriate ISO registration will be considered grounds for a default termination under the Termination (Cost-Reimbursement)" clause in Section I. Any Subcontractor performing 5 percent or more of the estimated contract dollar value will be considered a Major Subcontractor for the purpose of this clause. The requirements of this clause apply to Major Subcontractors performing in the areas of design, development, production, installation and servicing performed under this contract.

The prime Contractor and major subcontractor(s), as applicable, shall be certified as compliant with ISO 9001 for design, development, production, installation and servicing performed under this contract; or, as applicable, shall be certified as compliant with ISO 9002 for production, installation and servicing performed under this contract if the prime Contractor or subcontractor in question does not perform design and development work under the contract.

PARTII - CONTRACT CLAUSES

SECTION I - CONTRACT CLAUSES

1.1 LISTING OF CLAUSES INCORPORATED BY REFERENCE:

NOTICE: The following solicitation provisions and/or contract clauses pertinent to this section are hereby incorporated by reference.

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

CLAUSE NUMBER	TITLE AND DATE
52.202-1	Definitions (OCT 1995)
52.203-3	Gratuities (APR 1984)
52.203-5	Covenant Against Contingent Fees (APR 1984)
52.203-6	Restrictions on Subcontractor Sales to the Government (JUL 1995)
52.203-7	Anti-Kickback Procedures (JUL 1995)
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity (JAN 1997)
52.204-2	Sacurity Requirements (AUG 1996)
52.204-4	Printing/Copying Double-Sided on Recycled Paper (JUN 1996)
52.207-3	Right of First Refusal of Employment (NOV 1991)
52.209-6	Protecting the Government's Interest when Subcontracting with Contractors
	Debarred, Suspended, or Proposed for Debarment (JUL 1995)
52.211-15	Defense Priority and Allocation Requirements (SEP 1990)
52.215-2	Audit and RecordsNegotiation (AUG 1996)
52.215-23	Price Reduction for Defective Cost or Pricing Data—Modifications (OCT 1995)
52.215-25	Subcontractor Cost or Pricing Data—Modifications (OCT 1995)
52.215-26	Integrity of Unit Prices (JAN 1997)
52.21 533	Order of Precedence (JAN 1986)
52.216 7	Allowable Cast and Payment (MAR 1997)
52.219-8	Utilization of Small, Small Disadvantaged, and Women-Owned Small Business
	Concerns (JUN1997)
52.219-9	Small, Small Disadvantaged, and Women-Owned Small Business
	Subcontracting Plan (AUG 1996) Alternate II (MAR 1996)
52.222-1	Notice to the Government of Labor Disputes (FEB 1997)
52.222-3	Convict Labor (AUG 1996)
52.2224	Contract Work Hours and Safety Standards Act—Ovemme Compensation (JUL 1995)
52.222-26	Equal Opportunity (APR 1984)
52.222-28	Equal Opportunity Preaward Clearance of Subcontracts (APR 1984)
52.22235	Affirmative Action for Special Disabled and Vietnam Era Veterans (APR 1984)
52.22236	Affirmative Action for Handicapped Workers (APR 1984)
52.22237	Employment Reports on Special Disabled Veterans and Veterans of the
	Vietnam Era (JAN 1988)
52.223-2	Clean Air and Water (APR 1984)
52.223-3	Hazardous MaterialIdentification and Material Safety Data (JAN 1997)
	Alternate I (JUL 1995)
52.223-2	Clean Air and Water (APA 1984)
52.223-5	Pollution Prevention and Right-To-Know Information (MAR 1997)
52.223-6	Drug-Free Workplace (JAN 1997)
52.223-12	Refrigeration Equipment and Air Conditioners (MAY 1995)
52.223-14	Toxic Chemical Release Reporting (OCT 1996)
52.225-11	Restrictions on Certain Foreign Purchases (OCT 1996)
52.227-1	Authorization and Consent (JUL 1995)
52.227-2	Notice and Assistance Regarding Patent and Copyright Infringement
	(AUG 1996)

52.227-3	Patent Indemnity (APR 1984)
52.227-14	Rights in DataGeneral (JUN 1987)as modified by NASA FAR Supplement 1852.227-14
52.227-19	Commercial Computer Software – Restricted Rights (JUN 1987) – as modified by NASA FAR Supplement 1852.227-19
52.228-7	InsuranceLiability to Third Persons (MAR 1996)
52.230-2	Cost Accounting Standards (APR 1996)
52.232-9	Limitation on Withholding of Payments (APR 1984)
52.232-17	Interest (JUN 1996)
52.232-22	Limitation of Funds (APR 1984)
52.232-23	Assignment of Claims (JAN 1986)
52.232-33	Mandatory Information for Electronic Funds Transfer Payiment (AUG 1 96)
52.233-1	Disputes (OCT 1995) Alternate I (DEC 1991)
52.233-3	Protest After Award (AUG 1996)Alternate I (JUN 1985)
52.237-2	Protection of Government Buildings, Equipment and Vegetation (APR 984)
52.237-3	Continuity of Services (JAN 1991)
52.237-8	Restrictions on Severance Payments to Foreign Nationals (OCT 1995)
52.239-1	Privacy or Security Safeguards (AUG 1996)
52.242-1	Notice of Intent to Disallow Costs (APR 198.1)
52.242-3	Penalties for Unallowable Costs (OCT 1995)
52.242-15	Stop-Work Order (AUG 1989)Alternatel (APR 1984)
52.243-2	ChangesCost-Reimbursement (AUG 1987)Alternate II (APR 1984)
52.244-2	Subcontracts (Cost-Reimbursementand Letter Contracts) (FEB 1997) Alternate I (AUG 1996)
52.244-5	Competition in Subcontracting (DEC 1996)
52.245-5	Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts) (JAN 1986)(DEVIATION) (JUL 1995)
52.246-3	Inspection of SuppliesCast-Reimbursement (APR 1984)
52.246-5	Inspection of SewicesCost-Reimbursement (APR 1984)
52.246-25	Limitation of LiabilityServices (FEB 1997)
5 2.247-35	F.O.B. Destination, Within Consignee's Premises (APR 1984)
52.248-1	Value Engineering (MAR 1989)
52.249-6	Termination (Cost-Reimbursement) (SEP 1996)
52.249-14	Excusable Delays (APR 1984)
52.251-1	Government Supply Sources (APR 1984)
52.253-1	Computer Generated Forms (JAN 1991)

NASA FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

CLAUSE NUMBER	TITLE AND DATE
1852.21 9-74	Use of Rural Area Small Businesses (SEP 1990)
1852.219-75	Small Business and Small Disadvantaged Business Subcontracting Reporting (JUL 1997)
1852.219-76	NASA 8 Percent Goal (JUL 1997)
1852.219-77	NASA Mentor-Protege Program (JUL 1997)
1852219-79	Mentor Requirements and Evaluations (JUL 1997)
1852.223-70	Safety and Heatth (MAR 1997)
1852.223-73	Safety and Health Plan (DEC 1988)
1852.223-74	Drug and Alcohol-Free Workforce (MAR 1996)
1852.227-70	New Technology (JUL 1995)
1852.228-75	Minimum Insurance Coverage (OCT1988)
1852.237-70	Emergency Evacuation Procedures (DEC 1988)
1852.242-71	Travel Outside of the United States (DEC 1988)
1852.242-72	Observance of Legal Holidays (AUG 1992) Alternate II (SEP 1989)
1852242-73	NASA Contractor Financial Management Reporting (JUL 1997)
1852.245-70	Acquisition of Centrally Reportable Equipment (JUL 1997)

1852.245-71 Installation-Provided Government Property (MAR 1989)—Alternate I (MAR 1989)

12 CLAUSES IN FULL TEXT

The clauses listed below follow in full text:

CLAUSE NUMBER	TITLE AND DATE
52.252-2	Clauses Incorporated by Reference (JUN 1988)
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (JAN 1997)
52.203-12	Limitation on Payments to Influence Certain Federal Transactions (JUN 1997)
52.222-2	Payment for Overtime Premiums (JUL 1990)
52.222-41	Service Contract Act of 1965, As Amended (MAY 1989)
52.223-7	Notice of Radioactive Materials (JAN 1997)
52.232-25	Prompt Payment (JUN 1997)
52.242-13	Bankruptcy (JUL 1995)
52.244-6	Subcontracts for Commercial Items and Commercial Components (OCT 1995)
52.252-6	Authorized Deviations in Clauses (APR 1984)
1852.204-75	Security Classification Requirements (SEP 1989)
1852.204-76	Security Requirements for Unclassified Automated Information Resources (SEP1993)
1 852.215-84	Ombudsman (OCT 1996)
1 852.216-76	Award Fee for Service Contracts (OCT1996)
1852.245-73	Financial Reporting of NASA Property in the Custody of Contractors (SEP 1996)

1.3 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (JUN 1988)

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.

1.4 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (52.203-8) (JAN 1997)

- (a) If the Government receives information that a Contractor or a person has engaged in conduct constituting a violation of subsection (a), (b), (c), or (d) of Section 27 cf the Office of Federal Procurement Policy Act (41 U.S.C. 423) (the Act), as amended by section 4304 cf the 1996 National Defense Authorization Act for Fiscal Year 1996 (Pub. L 104-106), the Government may--
 - (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
 - (2) Rescind the contract with respect to which-
- (i) The Contractor or someone acting for the Contractor has been *convicted* for an offense where the conduct constitutes a violation of subsection 27 (a) or (b) of the Act for the purpose of either--
 - (A) Exchanging the information covered by such subsections for anything of

value; or

- (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract: or
- (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct constituting an offense punishable under subsections 27(e)(1) of the Ad.

- (b) If the Government rescinds the contract under paragraph (a) of this clause, the Government is entitled to recover. in addition to any penalty prescribed by law, the amount expended under the contract.
- (c) The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this contract.

1.5 LIMITATION ON PAYMENTS *TO* INFLUENCE CERTAIN FEDERAL TRANSACTIONS (FAR 52.203-12)(JUN 1997)

(a) Definitions.

'Agency,' as used in this clause, means executive agency as defined in 2.101.

'Covered Federal action,' as used in this clause, means any of the following Federal actions:

- (1) The awarding of any Federal contract.
- (2) The making of any Federal grant.
- (3) The making of any Federal loan.
- (4) The entering into of any cooperative agreement.
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

'Indian tribe' and 'tribal organization,' as used in this clause, have the meaning provided in section 4 of the Indian Setf-Determination and Education Assistance Act (25 U.S.C. 450B) and include Alaskan Natives.

'Influencing or attempting to influence," as used in this clause, means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

'Local Government,' as used in this clause, means a unit of Government in a State and, **f** chartered, established, or otherwise recognized by a State for the performance of a Governmental duty, including a local public authority, a special district, an intrastate district, a council of Governments, a sponsor group representative organization, and any other instrumentality of a local Government.

'Officer or employee of an agency,' as used in this clause, includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.
- (3) A special Government employee, as defined in section 202, Title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.

'Person,' as used in this clause, means an individual, corporation, company, association, authority, firm, partnership, society, State, and local Government, regardless of whether such entity is operated for profit. or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

'Reasonable compensation,' as used in this clause, means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

'Reasonable payment,' as used in this clause, means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

'Recipient,' as used in this clause, includes the Contractor and all subcontractors. **This term** excludes an Indian tribe, tribal organization, or any other Indian organization with respect to **expenditures** specifically permitted by other Federal law.

"Regularly employed," as used in this clause, means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such

person for at least 130 working days within 1 year Immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediatety preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

'State,' as used in this clause, means a State of the United States, the District of Columbia, the Commonweatth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having Governmental duties and powers.

- (b) Prohibitions. (1) Section 1352 of Title 31, United **States** Code, among other things, prohibits a recipient of a Federal cantract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of **the** following covered Federal actions: the awarding of any Federal contract: the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) The Act also requires Contractors to furnish a disclosure if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.
 - (3) The prohibitions of the Act do not apply under the following conditions:
 - (i) Agency and legislative liaison by own employees.
- (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action if the payment is for agency and legislative liaison activities not directly related to a covered Federal action.
- (8) For purposes of subdivision (b) (3) (i) (A) of this clause, providing any information specifically requested by an agency or Congress is permitted at any time.
- (C) The following agency and legislative liaison activities are permitted at any time where they are not related to a specific solicitation for any covered Federal action:
- (1) Discussing with an agency the qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms **of** sale, and service capabilities.
- (2) Technical discussions and other activities regarding the application or adaptation of the person's products or services for an agency's use.
- (D) The following agency and legislative liaison activities are permitted where they are **prior** to formal solicitation of any covered Federal action—
- Providing any information not **specifically** requested but necessary **for** an agency to make an informed decision about initiation of a covered Federal action;
- (2) Technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
- (3) Capability presentations by persons seeking *awards* from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L 95-507, and subsequent amendments.
- (E) Only those services expressly authorized by subdivision (b) (3) (i) (A) of this clause are permitted under this clause.
 - (ii) Professional and technical services.
- (A) The prohibition on the use of appropriated funds, in subparagraph (b) (1) of this clause, does **not** apply in the case of--
- (1) A payment of reasonable compensation made to an officeror employee of a person requesting or receiving a covered Federal action or an extension, continuation. renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, of application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

- Any reasonable payment to a person, other than an officer or employee of a person requesting or recetving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
- For purposes of subdivision (b)(3)(ii)(A) of this clause, 'professional and technical services' shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to irrfluence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or ner client's proposal, but generally advocate one proposal over another are not allowable under ihis section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation of submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action.
- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (D) Onty those services expressly authorized by subdivisions (b)(3)(ii)(A)(1) and (2) of this clause are permitted under this clause.
- (E) The reporting requirements of FAR 3.803 (a) shall not apply with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.
- (c) Disclosure. (1) The Contractor who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, **OMB** standard form LL, Disclosure of Lobbying Activities, if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under subparagraph (b)(1) of this clause, if paid for with appropriated funds.
- (2) The Contractor shall file a disclosure form at the end of each calendar quarter in which there occurs any event that materialty affects the accuracy of the information contained in any disclosure form previously filed by such person under subparagraph (c)(1) of this clause. **An** event that materially affects the accuracy of the information reported includes--
- A cumulative increase of \$25,000 or more in the amount paid or expected to **be** paid for influencing or attempting to influence a covered Federal action: or
- (ii) A change in the person(s) or individual(s) influencing of attempting to influence a covered Federal action: or
- (iii) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.
- (3) The Contractor shall require the submittal **d a** certification, and if required, a disclosure form by any person who requests or receives any subcontract exceeding \$100,000 under the Federal contract.
- All subcontractor disclosure forms (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall submit all disclosures to the Contracting Officer at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.
- (d) Agreement. The Contractor agrees not to **make** any payment prohibited by this clause.

- (e) Penalties. (1) Any person who makes an expenditure prohibited under paragraph (a) of this clause or who fails to file or amend the disclosure form to **be** filed or amended by paragraph (b) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
- (2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.
- (f) Cost allowability. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not **be** made allowable under any other provision.

1.6 PAYMENT FOR OVERTIME PREMIUMS (FAR 52.222-2) (JUL 1990)

- (a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0 or the overtime premium is paid for work -
- (1) **Necessary** to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature:
- (2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting:

 (3) To perform tests, industrial processes, laboratory procedures, loading or unloading of

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably **be** interrupted or completed otherwise; or

- (4) That will result in lower overall costs to the Government.
- (b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall -
- (1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;
- (2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule:
- (3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and
- (4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

1.7 SERVICE COMRACT ACT OF 1965, AS AMENDED (FAR 52.222-41) **(MAY** 1989)

(a) **Definitions.** 'Act,' as used in this clause, means the Service Contract **Act** of **1965**, as amended **(41** U.S.C. **351**, et seq.).

"Contractor," as used in this clause or in any subcontract, shall be deemed to refer to the subcontractor, except in the term 'Government Prime Contractor.'

'Service employee,' as used in this clause, means any person engaged in **the** performance of this contract other than any person employed in a bona fide executive, administrative, or **professional** capacity, as these **terms** *are* defined in Part **541** of Title **29**, Code of Federal Regulations, as revised. It includes **all** such persons regardless of any contractual relationship that may be alleged to exist between a Contractor or subcontractor and such persons.

(b) **Applicability**. **This** contract is subject to the following provisions and to **all** other applicable provisions **of** the Act and regulations of **the** Secretary **of** Labor **(29** CFR **Part 4)**. This clause **does** not apply to contracts or subcontracts administratively exempted by the Secretary of **Labor** or exempted by **41 U.S.C. 356**, **as** interpreted in Subpart C of **29** CFR **Part 4**.

(c) Compensation.

(1) Each service employee employed in **the** performance **of** this contract by the **Contractor** or any subcontractor shall be paid not less than the minimum monetary wages and **shall** be furnished fringe benefits in accordance with the wages and fringe benefits determined by the Secretary **of** Labor, **of** authorized representative, as specified in any wage determination attached **to** this contract.

- (2) (i) If a wage determination is attached to this contract, the Contractor shall classify any class of service employee which is not listed therein and which is to be employed under this contract (i.e., the work to be performed is not performed by any classification listed in the 'wage determination) 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 class of employees shall be paid the monetary wages and furnished the fringe benefits as are determined pursuant to the procedures in this paragraph (c).
- (ii) This conforming procedure shall **be** initiated by the Contractor prior to the performance of contract work by the unlisted class of employee. The Contractor shall submit Standard Form (SF) 1444, Request For Authorization of Additional Classification and Rate, to the Contracting Officer no later than 30 days after the unlisted class of employee performs any contract work. The Contracting Officer shall review the proposed classification and rate and promptty submit the completed SF 1444 (which must include information regarding the agreement or disagreement of the employees' authorized representatives or the employees themselves together with the agency recommendation), and all pertinent information to the Wage and Hour Division, Employment Standards Administration, **U.S.** Department of Labor. The Wage and Hour Division will approve, modify, or disapprove the action or render a final determination in the event of disagreement within 30 days of receipt or will notify the. Contracting Officer within 30 days of receipt that additional time is necessary.
- (iii) The final determination of the conformance action by the *Wage* and Hour Division shall be transmitted to the Contracting Officer who shall promptly notify the Contractor of the action taken. Each affected employee shall be furnished by the Contractor with a written copy of such determination or ± shall be posted as a part of the wage determination.
- (iv) (A) The process of establishing wage and fringe benefit rates that bear a reasonable relationship to those listed in a wage determination cannot be reduced to any single formula. The approach used may vary from wage determination to wage determination depending on the circumstances. Standard wage and salary administration practices which rank various job classifications by pay grade pursuant to point schemes or other job factors may, for example, be relied upon. Guidance may also be obtained from the way different jobs are rated under Federal pay systems (Federal Wage Board Pay System and the General Schedule) or from other wage determinations issued in the **same** locality. Basic to the establishment of any conformable wage rate(s) is the concept that a pay relationship should **be** maintained between job classifications based on the skill required and the duties performed.
- (B) In the case of a contract modification, an exercise of an option, or extension of an existing contract, or in any other case where a Contractor succeeds a contract under which the classification in question was previously conformed pursuant to paragraph (c) of this clause, a new conformed wage rate and fringe benefits may be assigned to the conformed classification by indexing (i.e., adjusting) the previous conformed rate and fringe benefits by an amount equal to the average (mean) percentage increase (or decrease, where appropriate) between the wages and fringe benefits specified for all classifications to be used on the contract which are listed in the current wage determination, and those specified for the corresponding classifications in the previously applicable wage determination. Where conforming actions are accomplished in accordance with this paragraph prior to the performance of contract work by the unlisted class of employees, the Contractor shall advise the Contracting Officer of the action taken but the other procedures in subdivision (c)(ii) of this clause need not be followed.
- (C) No employee engaged in performing work on this contract shall in any event **be** paid less than the currently applicable minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of **1938**, as amended.
- (v) The wage rate and fringe benefits finally determined under this subparagraph (c) (2) of this clause shall be paid to all employees performing in the classification from the first day on which contract work is performed by them in the classification. Failure to pay the unlisted employees the compensation agreed upon by the interested parties and/or finally determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract.
- (vi) Upon discovery of failure to comply with subparagraph (c)(2) of this clause, the Wage and Hour Division shall make a final determination of conformed classification, wage rate.

and/or fringe benefits which shall be retroactive to the date such class or classes of employees commenced contract work.

- (3) Adjustment of Compensation. If the term of this contract is more than 1 year, the minimum monetary wages and fringe benefits required to be paid or furnished thereunder to service employees under this contract shall be subject to adjustment after 1 year and not less often than once every 2 years, under wage determinations issued by the Wage and Hour Division.
- (d) Obligation to Furnish Fringe Benefits. The contractor or subcontractor may discharge the obligation to furnish fringe benefits specified in the attachment or determined under subparagraph (c)(2) of this clause by furnishing equivalent combinations of bona fide fringe benefits, or by making equivalent or differential cash payments, only in accordance with Subpart D of 29 CFR Part 4.
- (e) MInImum Wage. In the absence of a minimum wage attachment for this contract, neither the Contractor nor any subcontractor under this contract shall pay any person performing work under this contract (regardless of whether the person is a service employee) less than the minimum wage specified by section 6(a)(1) of the Fair Labor Standards Act of 1938. Nothing in this clause shall relieve the Contractor or any subcontractor of any other obligation under law or contract for the payment of a higher wage to any employee.
- (f) Successor Contracts. If this contract succeeds a contract subject to the Act under which substantially the same services were furnished in the same locality and service employees were paid wages and finge benefits provided for in a collective bargaining agreement, in the absence of the minimum wage attachment for this contract setting forth such collectivety bargained wage rates and funde benefits, neither the Contractor nor any subcontractor under this contract shall pay any service employee performing any of the contract work (regardless of whether or not such employee was employed under the predecessor contract), less than the wages and fringe benefits provided for in such collective bargaining agreement, to which such employee would have been entitled if employed under the predecessor contract, including accrued wages and fringe benefits and any prospective increases in wages and fnnge benefits provided for under such agreement. No Contractor or subcontractor under this contract may be relieved of the foregoing obligation unless the limitations of 29 CFR 4.lb(b) apply or unless the Secretary of Labor or the Secretary's authorized representative finds, after a hearing as provided in 29 CFR 4.10 that the wages and/or fringe benefits provided for in such agreement are substantially at variance with those which prevail for services of a character similar in the locality, or determines, as provided in 29 CFR 4.11, that the collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's length negotiations. Where it is found in accordance with the review procedures provided in 29 CFR 4.10 and/or 4.11 and Parts 6 and 8 that some or all of the wages and/or fringe benefits contained in a predecessor Contractor's collective bargaining agreement are substantialty at variance with those which prevail for services of a character similar in the locality, and/or that the collective bargaining agreement applicable to service employees employed under the predecessor contract was not entered into as a result of arm's length negotiations, the Department will issue a new α revised wage determination setting forth the applicable wage rates and fringe benefits. Such determination shall be made part of the contract or subcontract, in accordance with the decision of the Administrator, the Administrative Law Judge, or the Board of Service Contract Appeals, as the case may be, irrespective of whether such issuance occurs prior to or after the award of a contract or subcontract (53Comp. Gen. 401 (1973)). In the case of a wage determination issued solely as a result of a finding of substantial variance, such determination shall be effective as of the date of the final administrative decision.
- (g) Notification to Employees. The Contractor and any subcontractor under this contract shall notify each service employee commencing work on this contract of the minimum monetary wage and any fringe benefits required to be paid pursuant to this contract, or shall post the wage determination attached to this contract. The poster provided by the Department of Labor (Publication WH 1313) shall be posted in a prominent and accessible place at the worksite. Failure to comply with this requirement is a violation of Section 2(a)(4) of the Act and of this contract.
- (h) **Safe and Sanitary Working Conditions.** The Contractor or subcontractor shall not **permit** any part **of** the services called for by this contract to be performed in buildings or surroundings **or** under working conditions provided by or under the control or supervision of the Contractor **or** subcontractor which are unsanitary, hazardous, or dangerous to the health or safety of the service employees. **The** Contractor or subcontractor shall compty with the safety and health standards applied under **29 CFR Part** 1925.

- (i) Records. (1) The Contractor and each subcontractor performing work subject to the Act shall make and maintain for 3 years from the completion of the work, and make them available for inspection and transcription by authorized representatives of the Wage and Hour Division, Employment Standards Administration, a record of the following:
 - (i) For each employee subject to the Act -
 - (A) Name and address and social security number:
- (B) Correct work classification or classifications, rate or rates of monetary wages paid and fringe benefits provided, rate or rates of payments in lieu of fringe benefits, and total daily and weekly compensation;
 - (C) Daily and weekly hours worked by each employee; and
- (D) Any deductions, rebates, or refunds from the total daily or weekly compensation of each employee.
- (ii) For those classes of service employees not included in any wage determination attached to this contract, wage rates or fringe benefits determined by **the** interested parties or by the Administrator or authorized representative, under the terms of paragraph (c) of this clause. A copy **of** the report required by subdivision (c) (2) (ii) of this clause will fulfill this requirement.
- (iii) Any list of the predecessor Contractor's employees which had been furnished to the Contractor **as** prescribed by paragraph (n) of this clause.
- (2) The Contractor shall also make available a copy of this contract for inspection or transcription by authorized representatives of the Wage and Hour Division.
- (3) Failure to make and maintain or to make available these records for inspection and transcription shall be a violation of the regulations and this contract, and in the case of failure to produce these records, the Contracting Officer, upon direction of the Department of Labor and notification to the Contractor, shall take action to cause suspension of any further payment or advance of funds until such violation ceases.
- (4) The Contractor shall permit authorized representatives of the Wage and Hour Division to conduct interviews with employees at the worksite during normal working hours.
- (j) Pay Periods. The Contractor shall unconditionalty pay to each employee subject to the Act all wages due free and clear and without subsequent deduction (except as otherwise provided by law or Regulations, 29 CFR Part 4), rebate, or kickback on any account. These payments shall be made no later than one pay period following the end of the regular pay period in which the wages were earned or accrued. A pay period under this Act may not be of any duration longer than semi-monthly.
- (k) Withholding of Payment and Termination of Contract. The Contracting Officer shall withhold or cause to be withheld from the Government Prime Contractor under this or any other Government contract with the Prime Contractor such sums as an appropriate official of the Department of Labor requests or such sums as the Contracting Officer decides may be necessary to pay underpaid employees employed by the Contractor or subcontractor. In the event of failure to pay any employees subject to the Act all or part of the wages or fringe benefits due under the Act, the Contracting Officer may, after authorization or by direction of the Department of Labor and written notification to the Contractor, take action to cause suspension of any further payment or advance of funds until such violations have ceased. Additionally, any failure to comply with the requirements of this clause may be grounds for termination of the right to proceed with the contract work. In such event, the Government may enter into other contracts or arrangements for completion of the work, charging the Contractor in default with any additional cost.
- (I) **Subcontracts**. The Contractor agrees to insert this clause in all subcontracts subject to the Act.
- (m) Collective Bargaining Agreements Applicable to Service Employees. If wages to be paid or fringe benefits to be furnished any service employees employed by the Government Prime Contractor or any subcontractor under the contract are provided for in a collective bargaining agreement which is or will be effective during any period in which the contract is being performed, the Government Prime Contractor shall report this fact to the Contracting Officer, together with full information as to the application and accrual of such wages and fringe benefits, including any prospective increases, to service employees engaged in work on the contract, and a copy of the collective bargaining agreement. Such report shall be made upon commencing performance of the contract, in the case of collective bargaining agreements effective at such time, and in the case of such agreements or provisions or

amendments thereof effective at a later time during the period of contract performance such agreements shall be reported promptly after negotiation thereof.

- (n) Sentority List. Not less than 10 days prior to completion of any contract being performed at a Federal facility where service employees may be retained in the performance of the succeeding contract and subject to a wage determination which contains vacation or other benefit provisions based upon length of service with a Contractor (predecessor) or successor (29 CFR Part 4.173), the incumbent Prime Contractor shall furnish the Contracting Officer a certified list of the names of all service employees on the Contractor's or subcontractor's payroll during the last month of contract performance. Such list shall also contain anniversary dates of employment on the contract either with the current or predecessor Contractors of each such service employee. The Contracting Officer shall turn over such list to the successor Contractor at the commencement of the succeeding contract.
- (o) Rulings and Interpretations. Rulings and interpretations of the Act are contained in Regulations, 29 CFR Part 4.
 - (p) Contractor's Certification.
- (1) By entering into this contract, the Contractor (and officials thereof) certifies that neither it (nor he or she) nor any person or firm who has substantial interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of the sanctions imposed under section 5 of the Act.
- (2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract under section 5 of the Act.
- (3) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.
- (q) Variations, Tolerances, and Exemptions Involving Employment. Notwithstandingany of the provisions in paragraphs (b) through (o) of this clause, the following employees may be employed in accordance with the following variations, tolerances, and exemptions, which the Secretary of Labor, pursuant to section 4(b) of the Act prior to its amendment by Public L. 92-473, found to be necessary and proper in the public interest or to avoid serious impairment of the conduct of Government business.
- (1) Apprentices, student-learners, and workers whose earning capacity is impaired by age, physical or mental deficiency, or injury may be employed at wages lower than the minimum wages otherwise required by section 2(a)(1) or 2(b)(1) of the Act without diminishing any fringe benefits or cash payments in lieu thereof required under section 2(a)(2) of the Act, in accordance with the conditions and procedures prescribed for the employment of apprentices, student-learners, handicapped persons, and handicapped clients of sheltered workshops under Section 14 of the Fair Labor Standards Act of 1938, in the regulations issued by the Administrator (29 CFR Parts 520, 521, 524, and 525).
- (2) The Administrator will issue certificates under the Act for the employment of apprentices, student-learners, handicapped persons, or handicapped clients of sheltered workshops not subject to the Fair Labor Standards Act of 1938, or subject to different minimum rates of pay under the two acts, authorizing appropriate rates of minimum wages (but without changing requirements concerning fringe benefits or supplementary cash payments in lieu thereof), applying procedures prescribed by the applicable regulations issued under the Fair Labor Standards Act of 1938 (29 CFR Parts 520,521,524, and 525).
- (3) The Administrator will also withdraw, annul, or cancel such certificates in accordance with the regulations in 29 CFR Parts 525 and 528.
- (r) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed and individually registered in a bona fide apprenticeship program registered with a State Apprenticeship Agency which is recognized by the U.S. Department of Labor, or if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, Employment and Training Administration, U.S. Department of Labor. Any employee who is not registered as an apprentice in an approved program shall be paid the wage rate and fringe benefits contained in the applicable wage determination for the journeyman classification ofwork actually performed. The wage rates paid apprentices shall not be less than the wage rate for their level of progress set forth in the registered program, expressed as the appropriate percentage of the journeyman's rate contained in the applicable wage determination. The allowable ratio of apprentices to journeymen employed on the contract work in any craft classification shall not be greater than the ratio permitted to the Contractor as to his entire work force under the registered program.

- (s) Tlpo. An employee engaged in an occupation in which the employee customarily and regularly receives more than \$30 a month in tips may have the amount of tips credited by the employer against *the* minimum wage required by section 2(a)(1) or section 2(b)(1) of the Act, in accordance with section 3(m) of the Fair Labor Standards Act and Regulations 29 CFR Part 531. However, that the amount of credit shall not exceed \$1.34 per hour beginning January 1, 1981. To use this provision-
- (1) The employer must inform tipped employees about this tip credit allowance before the credit is utilized:
- (2) The employees must be allowed to retain all tips (individually or through a pooling arrangement and regardless of whether the employer elects to take a credit for **tips** received);
- (3) The employer must be able to show by records that the employee receives at least the applicable Service Contract Act minimum wage through the combination of direct wages and **tip** credit; and
- (4) The use of such tip credit must have been permitted under any predecessor collective bargaining agreement applicable by virtue of section 4(c) of the Act.
- (t) **Disputes Concerning** Labor **Standards.** The U.S. Department of Labor has set forth in 29 CFR Parts 4, 6, and 8 procedures for resolving disputes **concerning** labor standards requirements. Such disputes shall be resolved in accordance with those procedures and not the Disputes clause of this contract. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

1.8 NOTICE OF RADIOACTIVE MATERIALS (FAR 52.223-7) (JAN 1997)

- (a) The Contractor shall notify the Contracting Officer or designee, in writing, 5 days prior to the delivery of, or prior to completion of any servicing required by this contract of, items containing either (1) radioactive material requiring specific licensing under the regulations issued pursuant to the Atomic Energy Act of 1954, as amended, as set forth in title 10 of the Code of Federal Regulations, in effect on the date of this contract, or (2) other radioactive material not requiring specific licensing in which the specific activity is greater than 0.002 microcuries per gram or the activity per item equals or exceeds 0.01 microcuries. Such notice shall specify the part or parts of the items which contain radioactive materials, a description of the materials, the name and activity of the isotope, the manufacturer of the materials, and any other information known to the Contractor which will put users of the items on notice as to the hazards involved (OMB No. 9000-0107).
- (b) If there has been no change affecting the quantity of activity, or the characteristics and composition of the radioactive material from deliveries under this contract or prior contracts, the Contractor may request that the Contracting Officer or designee waive the notice requirement in paragraph (a) of this clause. Any such request shall --
 - (1) Be submitted in writing;
- State that the quantity of activity, characteristics, and composition of the radioactive material have not changed; and
- (3) Cite the contract number on which the prior notification was submitted and the contracting office to which it was submitted,
- (c) All items, parts, or subassemblies which contain radioactive materials in which the specific activity is greater than 0.002 microcuries per gram or activity per item equals or exceeds 0.01 microcuries, and all containers in which such items, parts or subassemblies are delivered to the Government shall be clearly marked and labeled as required by the latest revision of MIL-STD 129 in effect on the date of the contract.
- (d) This clause, including this paragraph (d), shall be inserted in all subcontracts for radioactive materials meeting the criteria in paragraph (a) of this clause.

19 **PROMPT PAYMENT (FAR** 52.232-25)(JUN 1997)

Notwithstanding any other payment clause in this contract, the Government will make invoice payments and contract financing payments under the terms and conditions specified in this clause. Payment shall be considered as being made on the day a check is dated or the date of an electronic funds transfer.

later of the following two events:

Definitions of pertinent terms are set forth in section 32.902 of the Federal Acquisition Regulation. All days referred to in this clause are calendar days, unless otherwise specified. (However, see subparagraph (a) (4) of this clause concerning payments due on Saturdays, Sundays, and legal holidays.)

(a) Invoice payments--(1) Due date. (i) Except as indicated in subparagraph (a) (2) and paragraph (c) of this clause, the due date for making invoice payments by the designated payment office shall be the

- (A) The 30th day after the designated billing office has received a proper invoice from the Contractor (except as provided in subdivision (a) (1) (ii) of this clause).
- (8) The 30th day after Government acceptance of supplies delivered or services performed by the Contractor. On a final invoice where the payment amount is subject to contract settlement actions, acceptance shall be deemed to have occurred on the effective date of the contract settlement.
- (ii) If the designated billing office fails to annotate the invoice with the **actual** date of receipt at the time of receipt, the invoice payment due date shall be the 30th day after the date of the Contractor's invoice; provided a proper invoice is received and there is no disagreement over quantity, quality, or contractor compliance with contract requirements.
- (2) Certain food products and other payments, (i) Due dates on Contractor invoices for meat, meat food products, or fish; perishable agricultural commodities; and dairy products, edible fats or oils and food products prepared from edible fats or oils are--
- (A) For meat or meat food products, as defined in section 2(a)(3) of the Packers and Stockyard Act of 1921 (7 U.S.C. 182(3)), and as further defined in Pub. L. 98-181, including any edible fresh or frozen poultry meat, any perishable poultry meat food product, fresh eggs, and any perishable egg product, as close as possible to, but not later than, the 7th day after product delivery.
- (8) For fresh or frozen fish, as defined in section 204(3) of the Fish and Seafood Promotion Act of 1986 (16 U.S.C. 4003(3)), as close as possible to, but not later than, the 7th day after product delivery.
- (C) For perishable agricultural commodities, as defined in section 1(4) of the Perishable Agricultural Commodities Act of 1930 (7 U.S.C. 499a(4)), as close as possible *to*, but not later than, the 10th day after product delivery, unless another date **is** specified in the contract.
- Stabilization Act of 1983 (7 **U.S.C.** 4502(e)), edible fats or oils, and food products prepared from **edible** fats or oils, **as** close as possible to, but not later than, the 10th day after the date on which **a** proper invoice has been received. Liquid milk, cheese, certain processed cheese products, butter, yogurt, ice cream, mayonnaise, salad dressings, and other similar products, fall within this classification. Nothing in the Act limits this classification to refrigerated products. When questions arise regarding the proper classification of a specific product, prevailing industry practices will be followed in **specifying** a contract payment due date. The burden of proof that a classification of a specific product **is**, in fact, prevailing industry practice **is** upon the Contractor making the representation.
- (ii) If the contract does not require submission of an invoice for payment (e.g., periodic lease payments), the due date will be as specified in the contract.
- (3) Contractor's invoice, The Contractor shall prepare and submit invoices to the designated billing office specified in the contract. A proper invoice must include the items listed in subdivisions (a)(3)(i) through (a)(3)(viii) of this clause. If the invoice does not comply with these requirements, it **shall** be returned within 7 days after the date the designated billing office received the invoice (3days for meat, meat food products, or fish; 5 days for perishable agricultural commodities, edible fats or oils, and food products prepared from edible fats or oils), with a statement of the reasons why it is not a proper invoice. Untimely notification will be taken into account in computing any interest penalty owed the Contractor in the manner described in subparagraph (a) (5) of this clause.
 - (i) Name and address of the Contractor.
- (ii) Invoice date. (The Contractor is encouraged to date invoices **as** close as possible **to** the date of the mailing **or** transmission.)
- (iii) Contract number or **other** authorization for supplies delivered *or* services performed (including order number and contract line item number).
- (iv) Description, quantity, unit of measure, unit price, and extended price of **supplies** delivered *or* **services** performed.

- (v) Shipping and payment terms (e.g., shipment number and date of shipment, prompt payment discount terms). Bill of lading number and weight of shipment will be shown for shipments on Government bills of lading.
- (vi) Name and address of Contractor official to whom payment is to be sent (must be the same as that in the contract or in a proper notice of assignment).
- (vii) Name (where practicable). title, phone number, and mailing address of person to be notified in the event of a defective invoice.
- (viii) Any other information or documentation required by the contract (such as evidence of shipment).
- (ix) While not required, the Contractor is strongly encouraged to assign an identification number to each invoice.
- (4) Interest penalty. An interest penalty shall be paid automatically by the designated payment office, without request from the Contractor, if payment is not made by the due date and the conditions listed in subdivisions (a) (4) (i) through (a) (4) (ii) of this clause are met, if applicable. However, when the due date falls on a Saturday, Sunday, or legal holiday when Federal Government offices are closed and Government business is not expected to be conducted, payment may be made on the following business day without incumng a late payment interest penalty.
 - (i) A proper invoice was received by the designated billing office.
- (ii) A receiving report or other Government documentation authorizing payment was processed, and there was no disagreement over quantity, quality, or Contractor compliance with any contract term or condition.
- (iii) In the case of a final invoice for any balance of funds due the Contractor for supplies delivered or services performed, the amount was not subject to further contract settlement actions between the Government and the Contractor.
- Computing penalty amount. The interest penalty shall be at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the day after the due date, except where the interest penalty is prescribed by other governmental authority (e.g., tariffs). This rate is referred to as the 'Renegotiation Board Interest Rate,' and it is published in the Federal Register semiannually on or about January 1 and July 1. The interest penalty shall accrue daily on the invoice principal payment amount approved by the Government until the payment date of such approved principal amount; and will be compounded in 30-day increments inclusive from the first day after the due date through the payment date. That is, interest accrued at the end of any 30-day period will be added to the approved invoice principal payment amount and will be subject to interest penalties if not paid in the succeeding 30-day period. If the designated billing office failed to notify the Contractor of a defective invoice within the periods prescribed in subparagraph (a) (3) of this clause, the due date on the corrected invoice will be adjusted by subtracting from such date the number days taken beyond the prescribed notification of defects period. Any interest penalty owed the Contractor will be based on this adjusted due date. Adjustments will be made by the designated payment office for errors in calculating interest penalties.
- Contractor, Government acceptance shall be deemed to have occurred constructively on the 7th day (unless otherwise specified in this contract) after the Contractor delivered the supplies or performed the services in accordance with the terms and conditions of the contract, unless there is a disagreement over quantry, quality, or Contractor compliance with a contract provision. In the event that actual acceptance occurs within the constructive acceptance period, the determination of an interest penalty shall be based on the actual date of acceptance. The constructive acceptance requirement does not, however, compel Government officials to accept supplies or services, perform contract administration functions, or make payment prior to fulfilling their responsibilities.
- The following periods of time will not be included in **the** determination of an interest penatty:
- (A) The period taken to notify the Contractor of **defects** in invoices submitted to **the** Government, but this may not exceed 7 days (3 days for meat, meat food products, or **fish**; 5 days for perishable agricuttural commodities, dairy products, edible fats **or** oils, and food **products** prepared from edible fats or oils).
- (B) The period between the defects notice and resubmission of the corrected invoice by the Contractor.

(C) For incorrect electronic funds transfer (EFT) information, in accordance with the EFT clause of this contract.

(iii) Interest penatties will not continue to accrue after the filing of a claim for such penatties under the clause at 52.233-1, Disputes, or for more than 1 year. Interest penatties of less than \$1 need not be paid.

- (iv) Interest penalties are not required on payment delays due to disagreement between the Government and the Contractor over the payment amount or other issues involving contract compliance or on amounts temporarily withheld or retained in accordance with the terms of the contract. Claims involving disputes, and any interest that may **be** payable, will be resolved in accordance with the clause at 52.233-1, Disputes.
- (6) Prompt payment discounts, An interest penalty also shall be paid automatically by the designated payment office, without request from the Contractor, if a discount for prompt payment is taken improperly. The interest penalty will be calculated as described in subparagraph (a) (5) of this clause on the amount of discount taken for the period beginning with the first day after the end of the discount period through the date when the Contractor is paid.
- (7) Additional interest penalty. (i) A penalty amount, calculated in accordance with subdivision (a) (7) (iii) of this clause, shall be paid in addition to the interest penalty amount if the Contractor--
 - (A) Is owed an interest penalty £ \$1 or more:
 - Is not paid the interest penalty within 10 days after the date the invoice

amount is paid; and

- (C) Makes a written demand to the designated payment office for additional penalty payment, in accordance with subdivision (a) (7) (ii) of this clause, postmarked not later than 40 days after the invoice amount is paid.
- (ii) (A) Contractors shall support written demands for additional penalty payments with the following data. No additional data shall be required. Contractors shall—
- (1) Specifically assert that late payment interest is due under a specific invoice, and request payment of all overdue late payment interest penalty and such additional penalty as may be required;
 - (2) Attach a copy of the invoice on which the unpaid late payment

interest was due; and

(3) State that payment of the principal has been received, including

the date of receipt.

(B) Demands must be postmarked on or before the 40th day after payment was made, except that--

(1) If the postmark is illegible or nonexistent, the demand must have been received and annotated with the date of receipt by the designated payment office on or before the 40th day after payment was made; or

(2) If the postmark is illegible or nonexistent and the designated payment office fails to make the required annotation, the demand's validity will be determined by the date the Contractor has placed on the demand; provided such date is no later than the 40th day after payment was made.

(iii) (A) The additional penalty shall be equal to 100 percent of any original late payment interest penalty except—

- (1) The additional penalty shall not exceed \$5,000;
- (2) The additional penalty shall never be less than \$25; and
- (3) No additional penalty is owed if the amount of the undertying

interest penalty is less than \$1.

(B) If the interest penalty ceases to accrue in accordance with the limits stated in subdivision (a) (5) (iii) of this clause, the amount of the additional penalty shall be calculated on the amount of interest penalty that would have accrued in the absence of these limits, subject to the overall limits on the additional penalty specified in subdivision (a) (7) (iii) (A) of this clause.

(C) For determining the maximum and minimum additional penatties, the test shall be the interest penalty due on each separate payment made for each separate contract. The maximum and minimum additional penalty shall not be based upon individual invoices unless the

ı

invoices are paid separately. Where payments are consolidated for disbursing purposes, the maximum and minimum additional penalty determination shall be made separately for each contract therein.

- (D) The additional penalty does not apply to payments regulated by other Government regulations (e.g., payments under utility contracts subject to tariffs and regulation).
- (b) Contract financing payments--(1) Due dates for recurring financing payments. If this contract provides for contract financing, requests for payment shall be submitted to the designated billing office as specified in this contract or as directed by the Contracting Officer. Contract financing payments shall be made on the [insert day as prescribed by Agency head: if not prescribed, insert 30th day] day after receipt of a proper contract financing request by the designated billing office. In the event that an audit or other review of a specific financing request is required to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the due date specified.
- Due dates for other contract financing. For advance payments, loans, or other arrangements that do not involve recurring submissions of contract financing requests, payment shall be made in accordance with the corresponding contract terms or as directed by the Contracting Officer.
- (3) Interest penalty not applicable. Contract financing payments shall not be assessed an interest penalty for payment delays.
- (c) Fast payment procedure due dates. If this contract contains the clause at **52.213-1**, Fast Payment Procedure, payments will be made within 15 days after the date of receipt of the invoice.

1.10 BANKRUPTCY (FAR 52.242-13) (JUL 1995)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts against which final payment has not been made. This obligation remains in effect until final payment under this contract.

1.11 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (FAR 52.244-6) (OCT **1995**)

(a) Definition.

'Commercial item,' as used in this clause, has the meaning contained in the clause at **52.202-1**, Definitions.

'Subcontract,' **as** used in this clause, includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

- (b) **To** the maximum extent practicable, the Contractor shall incorporate, and **require** its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of **items** to be supplied under this **contract**.
- (c) Notwithstandingany other clause of this contract, the Contractor is not required to include any FAR provision or clause, other than those listed below to the extent they are applicable and as may be required to establish the reasonableness of prices under Part 15, in a subcontract at any tier for commercial items or commercial components:
 - (1) 52.222-26, Equal Opportunity (E.O. 11246);
- (2) 52.222-35, Affirmative Action for Special Disabled and Vietnam Era Veterans (38 U.S.C. 4212(a));
 - (3) 52.222-36, Affirmative Action for Handicapped Workers (29 U.S.C. 793); and
- (4) 52.247-64, Preference for Privately-OwnedU.S.-Flagged Commercial Vessels (46 U.S.C. 1241) (flow down not required for subcontracts awarded beginning May 1, 1996).
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

1.12 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 NASA/FAR Supplement (48 CFR Chapter 18) clause with an authorized deviation is indicated by the addition of '(DEVIATION)' after the name of the regulation.

1.13 SECURITY CLASSIFICATION REQUIREMENTS (NASA 1852.204-75) (SEP 1989)

Performance under this contract will involve access to and/or generation of classified information, work in a security area, or both, up to the level of <u>TOP SECRET</u>. See Federal Acquisition Regulation clause 52.204-2 in this contract and DD Form **254**, Contract Security Classification Specification, Exhibit A.

1.14 SECURITY REQUIREMENTS FOR UNCLASSIFIED AUTOMATED INFORMATION RESOURCES (NASA 1852.204-76) (SEP 1993)

(a) In addition to comptying with any functional and technical security requirements set forth in the schedule and the clauses of this contract, the Contractor shall initiate personnel screening checks and obtain user responsibility agreements, as required by this clause, for each Contractor employee requiring unescorted or unsupervised physical access or electronic access to the following limited or controlled areas, systems, programs and data:

Central Scientific Computing Complex (Bldg. 12681

- (1) The Contractor shall submit a personnel security questionnaire (NASA Form 531, Name Check Request, for National Agency Check (NAC) investigations and Standard Form 85P, Questionnaire for Public Trust Positions, for specified sensitive positions) and a Fingerprint Card (FD-258with NASA overprint in Origin Block) to the installation Security Officer for each Contractor employee who requires access. The required forms may be obtained from the installation security office. Employees may have finger-prints taken at the NASA Contract Badge and Pass Office, located at 1 Langley Boulevard (Building No. 1228), only between the hours of 6:30 a.m. and 4:30 p.m., Monday through Friday, or at any police department.
- (i) Several months may be required for completion of complex personnel screening investigations. Background screening may not be required for employees with recent or current Federal Government investigations.
- (ii) When employee access is necessary prior to completion of personnelscreening, each Contractor employee requiring access may be considered for escorted access. The installation Security Officer will establish the eligibility of proposed escorts.
- (2) The Contractor shall ensure that each Contractor employee requiring access executes any user responsibility agreements required by the Government prior to access. The Contractor **shall** provide signed copies of the agreements to the installation Security Officer for inclusion in the employee's security file. Unauthorized access is a violation of law and punishable under the provisions of 18 U.S.C. 1029, 18 U.S.C. 1030 and other applicable **statutes**.
- (3) The Contractor shall **notify** the installation AIS Manager no later **than** the end of the day of the termination for cause of an authorized employee's access. The Contractor shall notify the **COTR** no later than 10 days after an authorized employee no longer requires access for any other **type** of **termination**. Verbal **notifications** shall be confirmed in **writing** within 30 days.
- (b) The Contractor shall incorporate this clause in all subcontracts where the requirements identified in paragraph (a) of this clause are applicable to performance of the subcontract.

1.15 OMBUDSMAN (NASA 1852.215-84) (OCT1996)

An ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and Contractors during the preaward and postaward phases of this acquisition. When requested, the ombudsman will maintain strict confidentiality as to the source of the concern. The existence of the ombudsman is not to diminish the authority of the Contracting Officer, the Source Evaluation Board, or the selection official. Further, the ombudsman does not participate in the evaluation of proposals, the source selection process, or the adjudication of formal contract disputes. Therefore, before consutting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the Contracting Officer for resolution. If resolution cannot be made by the Contracting Officer, interested parties may contact the installation ombudsman, Sandra S. Ray at (757) 864-2428. Concerns, issues, disagreements, and recommendations which cannot be resolved at the installation may be referred to the NASA ombudsman, the Deputy Administrator for Procurement, at 202-358-2090. Please do not contact the ombudsman to request copies of the solicitation, verrfy offer due date, or clarify technical requirements. Such inquiries shall be directed to the Contracting Officer or as specified elsewhere in this document.

1.16 AWARD FEE FOR SERVICE CONTRACTS (NASA 1852.216-76) (OCT 1996)

- (a) The Contractor can earn award fee from a minimum of zero dollars to the maximum stated in NASA FAR Supplement Clause **1852.21**6-85, 'Estimated Cost and Award Fee' in this contract.
- (b) Beginning 6 months after the effective date of this contract, the Government shall evaluate the Contractor's performance every 6 months to determine the amount of award fee earned by the Contractor during the period. The Contractor may submit a setf-evaluation of performance for each evaluation period under consideration. These self-evaluations will be considered by the Government in its evaluation. The Government's Fee Determination Official (FDO) will determine the award fee amounts based on the Contractor's performance in accordance with the Award Fee Plan dated October 31, 1997. The plan may be revised unilaterally by the Government prior to the beginning of any rating period to redirect emphasis.
- (c) The Government will advise the Contractor in writing of the evaluation results. The Financial Management Division will make payment based on issuance of unilateral modification by Contracting Officer.
- (d) After 85% of the potential award fee has been paid, the Contracting Officer may direct the withholding of further payment of award 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 total potential award fee.
- (e) The amount of award fee which can be awarded in each evaluation period is limited to the amounts set forth & B.3, Award Fee Availability Schedule. Award fee which is not earned in an evaluation period cannot be reallocated to future evaluation periods.
- (f) Award fee determinations made by the Government under this contract are not subject to the Disputes clause.

1.17 FINANCIAL REPORTING OF NASA PROPERTY IN THE CUSTODY OF CONTRACTORS (NASA 1852.245-73) (SEP **1996**)

- (a) The Contractor shall submit annually a NASA Form 1018, NASA Property in the Custody of Contractors, in accordance with 18-45.505-14, the instructions on the form, and subpart 1845-71. 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.
- (b) If administration of this contract has been delegated to the Department of Defense, the **original** of NASA Form **101**8 shall **be** submitted to the NASA, LaRC Financial Management Officer, Mail Stop **175** and three copies shall be sent concurrently through the **DOD** Property Administrator to the **address** below. If the contract is administered by NASA, the original of NF **1018** shall be submitted to the LaRC

Financial Management Office and three copies shall be sent concurrently and directly to the following office:

ATTN: INDUSTRIAL PROPERTY OFFICE NASA LANGLEY RESEARCH CENTER MAIL STOP 377 HAMPTON VA 23681-0001

- (c) The annual reporting period shall be from October 1 of each year to September 30 of the following year. The report shall be submitted 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 the Government'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 when due, *such* reserve shall be withheld until the Contracting Officer has determined that the required reports have been received by the Government. 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 is required within 30 days after disposition of all property subject to reporting when the contract performance period is complete.

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J - LIST OF ATTACHMENTS

Exhibit A Contract Security Classification Specification, DD Form 254, 2 pages

Exhibit B Installation-Provided Government Property, 4 pages

Exhibit C List of Government-Furnished Property, 87 pages

Exhibit D Register of Wage Determination and Fringe Benefits #94-2544, Rev. 14,

July 2, 1997, 10 pages

Exhibit **E** Contract Documentation Requirements, **5** pages

Exhibit F Information Management System for ETTD Support Services. 1 page

Exhibit C List of NASA Software Documentation Standards, 1 pages

Exhibit H List of Acronyms, 1 page

Exhibit I Subcontracting Plan dated January 5, 1998, 6 pages

The following are located after the last section of this solicitation:

Attachment 1 Relevant Experience and Past Performance Evaluation Instructions/Questionnaire, 4 pages

Attachment 2 Monthly Progress Report for Socioeconomic Goals (Sample), 1 page

Attachment 3 Standard Form 1448, Contract Pricing Proposal Cover Sheet, 1 page

Attachment 4 Award Fee Plan, 17 pages

Attachment 5 Instruments Calibrated/Repaired 1996, 1 page

Aftachment 6 Equipment to be Delivered for Receipt, Inspection, and Acceptance at

Contractor's Facility, 1 page

Attachment 7 Sample Engineering Service Request, 1 page

Attachment 8 Sample Statement of Requirements, 1 page

Attachment 9 Task Order Request Information Format (Sample), 2 pages

Attachment 10 Bidders Library Contents, 1 page

Attachment 11 Cost Forms and Instructions, 10 pages (one spreadsheet)

Attachment 12 Draft RFP Questions and Answers, 7 pages

Attachment 13 RIMS Presolicitation Conference - Attendees List, 1 page

Attachment 14 RIMS Presolicitation Conference Charts, 38 pages

1. CLEARANCE AND SAFEGUARDING

EXHIBIT A

	DEPARTMENT O					TYON	a. reducy constant	•		
CONTRACT SECURITY CLASSIFICATION SPECI										
	(The requirements of the DoD Industrial Security Manual apply to all security aspe				:La of D	ध्य शुक्तः)	a. Lever Of Safeguard	SECRET		
2	2. THIS SPECIFICATION IS FOR: (X and complete as applicable)				3.	THIS SPECIFICATIO	N ISa (Y and comple			
	a. Pricase Contract Number		·			a. Original (Compute De	ste (n All Cases)	1	Data (YYMMDD)
					X				97/06	
	b. Subconstruct Number					b. Revisod (Perseim All	Previous Specs)	Revision No.	Dets (YYM,MDD)
	c. Solicitation Or Other Number	Due Date (YY	MMDO)			c. Pani (Complete Item	S In All Cases)	1	Deta (YYMMDD))
Х	RFP - 1-137-GH.2959	97	7/10/01	ı Î						
u.	IS THIS A POLLOW-ON CONTRACT: X	YES			NO. II	Yes, complete the followin	E			
c	Seei fled metersal reconved or generated stador					(Preceding Contract Num	nber) is transferred to this	follow-on contract.		
<u>s</u>	IS THIS A FINAL DD FORM 254?	YES		Ţ. T	NO 16	Yes, complete the follows				
		┙''゜	<u> </u>	X		·	•			
•	a response to the contractor's request deted			TORRESCE !	OK DHE C	assifed material is subcrize	as sor tak period			
٤	CONTRACTOR (Include Commercial and Government En	tity (CAGE	Code)							
a. Loc			b. 0	age Code			ity Office (Name, Addres	s, And Zip Code)		
T 1	BD		- 1	T	BD	TBD	- ********	-		
7.	SUBCONTRACTOR							· · · · · · · · · · · · · · · · · · ·		
	ne, Address, And Zip Code		b. (age Code	:	c. Cognizant Secur	ity Office (Name, Addres	s, And Zip Code)		
T	BD			T	BD	TBD				
								<u> </u>		
L.	ACTUAL PERFORMANCE		- 1. /					. 1 7 7 C - (-)		
	™ ASA LANGLEY RESEARCH CENTER		"	Cage Code N	: [/A	N/A	nty Office (Name, Addres	K, AME ZUP COGE)		
•	AMPTON, VA 23681-0001	•			1/2%	14/24				
~~	2001 0001		İ			1				
9.	GENERAL IDENTIFICATION OF THIS PROCUREME	NT								
R	ESEARCH INSTRUMENTATI <i>O</i> N ANI) MEAS	SURE	MENT	ESU	PPORT				
	CONTRACTOR USE A PROLETIFA CONTRACTOR	1 1000	l No	1	D. DEY	SOR OVER THE CO	ATTACE THE COL	TRACTOR WILL	YES	NO
10.	CONTRACTOR WILL REQUIRE ACCESS TO: Communications Security (Consec) Informet on	YES	NO X			OCCUMENTAL THIS CO			IES	X
<u> </u>	Restricted Data	 -	X	-		ement Activity Clean fied Documents Only				X
	Critical Nuclear Wespon Design Information	-	<u> </u>	<u> </u>		And Generate Classified M			- x	
	· · · · · · · · · · · · · · · · · · ·	↓	X							
4	Formerly Restricted Data		X	4	Pabrica	e, Modify, Or Store Classifi	led Hardware		X	
۵	Intelligence information			٠	Perform	Services Only				X
	(1) Sensitive Compartmented Information (Sci)		X	Ľ		come To U.S. Classified industries And Treat Territories		, Pserto Rico, U.S.		X
	(2) Nos-Sci		X		Be Aut	onized To Use The Services	Of Defense Technical In	formation Center (Disc) (×	X
L	Special Access Information	X		<u>}</u>		Secondary Distribution Con A Comsec Account	wa			X
-	Nato information	 	X	 	Heve T	cosport Requirements				X
	Foreign Government Information	+	X	j.	Have O	perstrons Security (Opsec)	Requirements			X
<u> </u>		 	<u> </u>			corized To Use The Defense			+	×
			↓				. 		 	
,	For Official Use Only Information		×]	Justi (Specify)		_		
L	Other (Specify)])		SEE A	TTACHMENT			
=	N/A		1	1						
		<u></u>	<u> </u>	1						S Word 4
20	P 164 per m mm			ذخالت ستحفد		abantara .			,,,,,	

EXHIBIT A

EXHIBIT A

	EARIBIT A	
12. PUBLIC RELEASE Any information (classified or it has been approved for public release by appropriate U.S. Government sectors.)		public dissemention except as provided by the Industrial Socienty Manual saless mor to release
Direct X 7	hrough (Specify)	ļ
"NASA LANGLEY RESEARCH CENTI	ER. M/S 235. HAMPTON, VA 236	81-001" ATTN: ROBERT HEDGEPETH
to the Discontinues for Breadow of Information and Security B	name Office of the Assistant Secureous of Defense (Public Affi	rs)* for review, *la the case of son-DoD User Agencies, requests for diaclosurs
shall be substitted to that agracy.	view, oute of the Allient States of the Control of	
indicates a need for changes in this guidance, the contractor is sethorized and	cacouraged to provide recommended changes; to challenge the	(Exalty is encountered in applying this guidence or if any other contributing factor guidence or the classification assigned to any information or material fartished or
generated under this contract; and to submit any questions for interpretation of classification assigned or recommended. (Fill in an appropriate for the c	of this guidance to the official identified below. Feading final d	cision, the information involved shall be handled and protected at the highest level ason, any documents/guides/extracts referenced herein. Add additional pages as
needed to remide complete enidance.)		
ALL APPLICABLE CLASSIFIC	CATION GUIDANCE WILL F	BE PROVIDED TO THE
CONTRACTOR UNDER SEPAI	RATE COVER:	
		IC DECEADON AND
THE CONTRACTOR WILL BE		. –
DEVELOPMENT PROGRAMS GOVERNMENT, TO HAVE A T		IVIDUAL DESIGNATED BY
GOVERNMENT, TO HAVE A	Of SECRET CLEARANCE.	
1		(
14. ADDITIONAL SECURITY REQUIREMENTS. Require	nomen, in addition to ISM requirements, are established for this	contract. (If Yes, identify the partinent Yes X No
contractual clauses in the contract document itself, or provide an a requirements to the cognizent security office. Use Item 13 if additi	ppropriate statement which identifies the additional requirem	
 INSPECTIONS. Elements of this contract are outside the impecelements curved out and the activity responsible for inspections. U. 		ain and identify specific areas or Yes X No
THE NAME OF COLUMN OF COLUMN	≽. TπLE	c. TELEPHONE (Include Area Code)
sam A. Harvey	Program Security Team Leade	
Sum: 25 222 1 of		, 157 500
4. ADDRESS (Include Zip Code)		ED DISTRIBUTION
NASA LANGLEY RESEARCH CENTE		
M/S 182 HAMPTON, VA 23681-0001	B. Subcontract X C. Cognizant S	or ecenty Office For Prime And Subcontractor
a SIGNATURE		y Responsible For Oversess Socsity Administration
	X B. Administra	ive Contracting Officer
	F. Others As 2	(MS Word 4/96
DD Forza 254 Page Two, Dac 90 (BC)		(MS Word 4/90)

EXHIBIT B

INSTALLATION-PROVIDED GOVERNMENT PROPERTY

,		050141 110	100	DI DO	T
	DESCRIPTION	SERIAL NO.	ACQ.	BLDG.	
ECN	MANUFACTUAER	MODEL NO.	DATE	ROOM	COST
1084258	COMPUTER, MICRO	NONE	91/02/26	648	3,891
	NORTHGATE COMPUTER SYSTEMS INC	386/25		325	
1084260	DISPLAY UNIT	KB06J1750	91/02/26	648	400
	MATSUSHITA ELECINDUS CO	C1381		325	
1085542	TERMINAL, DATA PROCESSING	WA0510032	91/05/10	648	754
	HUMAN DESIGN SYSTEMS INC	HDS2000		325	
1262152	COMPUTER, MINI	OB0069907ADDB	94/05/25	648	5,895
	SILICON GRAPHICS INC	CMNB006		325	
1262156	DISPLAY UNIT	7000160	94/05/25	648	400
	SONY CORP	GDM17E11		325	
0221802	PRINTER, ADP	2605897	86/03/18	1221C	373
	INTERNATIONAL BUSINESS MACHINE	4M1-001		123	
0281462	COMPUTER, MICRO	5016112	85/04/02	12210	3,598
	INTERNATIONAL BUSINESS MACHINE	<i>5</i> 170-068		123D	
0281821	DISPLAY UNIT	0893624	85/04/18	1221D	192
	INTERNATIONALBUSINESS MACHINE	5151-001		123D	
0281922	DISPLAYUNIT	0359172	85/04/24	1221C	192
	INTERNATIONAL BUSINESS MACHINE	5151-001		123	
1422736	COMPOSING MACHINE	206159	86/09/04	1221C	2,305
	KROY INC F-GRAPHIC SYS DIV	290S		SHOP	
0143143	DISK DRIVE UNIT	8002	87/02/02	648	925
	RODIME INC	SM+		325	
1085345	COMPUTER, MICRO	F2111H S4	91/04/25	548	2,453
	APPLE COMPUTER INC	M0350		325	
1085348	DISPLAY UNIT	7010281	91/04/25	648	628
	APPLE COMPUTER INC	M0401		325	
1085540	TERMINAL, DATA PROCESSING	WA0510026	91/05/10	648	754
	HUMAN DESIGN SYSTEMS INC	HDS2000		325	
1262155	COMPUTER, MINI	08006907ADC1	94/05/25 .	648	5,895
	SILICON GRAPHICS INC	CMNB006		325	<u> </u>
1262158	DISPLAY UNIT	7000932	94/05/25	648	400
	SONY CORP	GDM17E11		325	<u> </u>

	DESCRIPTION	SERIAL NO.	ACQ.	BLDG	
ECN	MANUFACTURER	MODEL NO.	DATE	ROOM	COST
GO73592	DISPLAY UNIT	93914544A518	90/02/14	1230	487
	COMPAQ COMPUTER CORP	420		124	
GO73594	COMPUTER, MICRO	4950HZ3H0976	90/02/14	1230	2.145
	COMPAQ COMPUTER CORP	286E2570		124	
GO73766	COMPUTER. MICRO	4942HZ3H0837	90/03/07	1230	2,240
	COMPAQ COMPUTER CORP	2520 (286E)		123	
GO73793	DISK DRIVE UNIT	JA9520013	90/03/12	1230	2,112
	MATSUSHITA ELECINDUS CO	LF5010		140	
GO74000	PRINTER, ADP	3003JGDELC	90/03/28	1230	1,486
	HEWLETT-PACKARD CO	33471A		140	
GO78574	DISPLAY UNIT	03133646A059	90/10/04	1230	496
	COMPAQ COMPUTER CORP	420T		123	
GO78920	COMPUTER, MICRO	61212177	90/11/05	1230	1,114
	MICROSERVE	386SX	_	140	
GO78921	DISPLAY UNIT	MA6105526	90/10/22	1230	535
	QUME CORP	GM835		140	
0054920	PRINTER, ADP	2803J22532	88/04/14	1230	1,671
	HEWLETT-PACKARD CO	33440A		124	
0059905	PRIMER, ADP	45416	89/01/10	1230	339
	EPSON AMERICA INC	FX850		124	
0061679	COMPUTER, MICRO	823066	89/04/24	1230	1,436
	TRI-STAR COMPUTER CORPORATION	286/12		123	
0259555	COMPOSING MACHINE	512107	86/09/03	1230	1,456
	MERLIN MACHINE CORP	35-00		140	
0547811	READER/PRINTER, MICROFICHE	32102123	85/01/08	1230	2,836
	CANNON INSTRUMENT CO	PC70		015	
0549218	MONITOR, TELEVISION, COLOR	50 1757	84/06/29	1230	628
	SONY CORP	PVM8000		140	
0801367	CAMERA, DIGITIZING	101118	92/04/14	1230	1,122
	CANNON USA INC	RC470		140	
0801368	DISK DRIVE UNIT	910950124	92/04/14	1230	2,300
	CANNON USA INC	FV540N		140	
0801834	DISK DRIVE UNIT	801608	92/08/25	1230	599
	SONY CORP	7211		140	

				T	T
	DESCRIPTION	SERIAL NO	ACQ	BLDG	
ECN	MANUFACTURER	MODEL NO	DATE	ROOM	COST
					-
1084335	DISPLAY UNIT	NONE	91/03/04	1230	1,388
	MAGNA-PLANDIV L D BLEHART CO	PC9600		140	ļ
1085223	PRINTER, ADP	3112A23171	91/04/23	1230	1,418
	HEWLETT-PACKARD CO	33449A		140	
1085703	COMPUTER, MICRO	199543	91/06/04	1230	2,299
	GATEWAY 2000	386/25C		140	
1085704	DISPLAYUNIT	T9731322	91/06/04	1230	640
	GATEWAY 2000	PMV1448		140	
1085910	SCANNER, COMPUTER	1499	91/06/13	1230	4,380
	FUJITSU LTD	M3093E		123	
1087773	COMPUTER, MICRO	262610	91/08/26	1230	1,545
	GATEWAY 2000	386-25		140	
1087774	DISPLAY UNIT	T9758731	91/08/26	1230	400
	GATEWAY 2000	PMV1448		140	
10088645	COMPUTER, MICRO	281934	91/09/24	1230	1,395
	GATEWAY 2000	386125		140	
1088646	COMPUTER, MICRO	281932	91/09/24	1230	1,395
	GATEWAY 2000	386125		140	
1090495	TRANSPORT, MAGNETIC TAPE	221933	92/03/05	1230	2,095
	VALITEKING	PST250F		140	
1159688	DISPLAY UNIT	249145440696	93/01/22	1230	380
	COMPAQ COMPUTER CORP	420K		123	
1159728	PRINTER, ADP	USBC036369	93/02/02	1230	1,582
	HEWLETT-PACKARD CO	C2001A		140	
1159749	DISPLAYUNIT	2ZD00254D	93/02/09	1230	1,249
11007.10	NEC INFORMATION SYSTEMS INC	JC1741UMA	00,02,00	140	1,2.0
1160114	SCANNER, COMPUTER	3265A14647	93/02/26	1230	1,385
. 100117	HEWLETT-PACKARD CO	C1750A	30,32,23	140	1,505
1254987		1325336	93/04/27	1230	2,095
1434907	COMPUTER, MICRO GATEWAY 2000		33/04/21		2,095
4054000		DESKTOP	02/04/07	124	100
1254988	OISPLAY UNIT	MMHL162896	93/04/27	1230	400
	GATEWAY Moo	CS1572FS	_	124	

	DESCRIPTION	SERIAL NO.	ACQ.	BLDG.	
FON			DATE	ROOM	COST
ECN	MANUFACTURER	MODEL NO.	DAIL	KOOW	0031
1260696	DISPLAYUNIT	3X21039DA	94/03/01	1230	1,228
	NEC AMERICA INC BROADCASTING	JC1741UMA3		140	
1261275	JUKEBOX, OPTICAL DISK	OA8503056	94/03/28	1230	2,195
	PIONEER ELECTRONIC CORP	DRM1804X		140	
1262533	SCANNER, OPTICAL	1295	94/007/06	1230	3,995
	MICROSEAL CORP	VS1000		124	
1262730	PRIMER, ADP	JPFL005708	94/08/11	1230	2,253
1	HEWLETT-PACKARO CO	C2039A		140	
0848127	COMPUTER, MICRO	3551	89/10/11	648	2.831
	BLUE CIRCLE GROUP, INC	386		317B	
1085541	TERMINAL, DATA PROCESSING	WA0510031	91/05/10	648	754
	HUMAN DESIGN SYSTEMS INC	HDS2000		3178	
1262153	COMPUTER, MINI	08006907ADBB	94/05/25	648	5,895
	SILICON GRAPHICS INC	CMNB006		3178	
1262159	DISPLAYUNIT	7000931	94/05/25	648	400
	SONY CORP	GDM17E11		3178	
0061825	COMPUTER. MICRO	F912AXU	89/05/01	1293B	6,933
	APPLE COMPUTER INC	M5650		106A	
0061826	DISPLAY UNIT	5191556	89/05/01	1293B	714
	APPLE COMPUTER INC	M0401		106A	
1258103	COMPUTER, MICRO	93-4346-03	93/11/03	1268A	2,685
<u> </u>	ZENON COMPUTER SYSTEMS	486DX		1156	
1258144	DISPLAY UNIT	Y3G001044	93/11/04	1268A	1,749
	HITACHI MFG CO	2997		1156	

EXHIBIT &

LIST OF GOVERNMENT-FURNISHED PROPERTY

EXHIBIT C - LIST OF GOVERNMENT FURNISHED PROPERTY

SPECIAL TEST EQUIPMENT

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
A G DAVIS	HPRC-2000	POWER SUPPLY	2,500.00	9/1/93
A G DAVIS	PRC-2000	CENTRIFUGE	114,230.00	9/1/93
ADI	SM-5514B	DISPLAY	450.00	1/1P 2
ADS	486/50	COMPUTER W/KEYBOARD	3,180.00	3/1/94
ADS	NS1183	COMPUTER	1,876.00	3/1/94
ADVANCED LOGIC	100	COMPUTER W/KEYBOARD	8,338.00	11/1/88
AEROTECH	U11R-2-A	POSITION-CONTROLLER	3,095.00	5/1/91
AHE	2525	MAG TAPE, CASSETTE	525.00	10/1P 3
AHE	4350XT	MAG TAPE, CASSETTE	2,147.00	10/1/93
ALCATEL	325	VACUUM PUMP	1,500.00	1/1/92
ALCATEL	2004A	VACUUM PUMP	1,500.00	1/1/92
ALCATEL	CFF450	PUMP CONTROLLER	1,500.00	1/1/92
ALLIED TELESYN INTERNATIONAL	AT-MR820TR	NETWORK INTERFACE	135.00	9/3/96
ALUMA TOWER	TM51- 207T1100	TRAILER, TOWER	8,270.00	11/9/89
ALUMA TOWER	TM51- 20T1100	TRAILER, TOWER	8,270.00	11/9/89
ALUMA TOWER	TM51- 20T1100	TRAILER, TOWER	8,270.00	11/9/89
AMERICAN POWER CONVERSION		POWER SUPPLY	224.00	9/12/96
ANDATACO	X81CH31- A3282X	TAPE DRIVE	1,143.00	4/1/96
APC	800RT	POWER SUPPLY	602.1 0	
APM	HD205C	DISK-WINCHESTER	1,075.00	12/1/86
APM	M3021	DISK-OPTICAL	549.00	3/1/92
APM	MAC2CI	COMPUTER, PERSONAL	3,820.00	4/1/92
APM	MAC2FX	COMPUTER, PERSONAL	6,546.00	10/1/88
APM	MC2RGB	CRT DISPLAY	500.00	4/1/92
APM	MC2RGB	CRT DISPLAY	679.00	8/1/89
APM	MC2RGB	CRT DISPLAY	648.00	3/1/94
APPLE	M5000	COMPUTER W/KEYBOARD	3,853.00	10/1/87
APPLIED TECH	SWS- 211/3CKNY	ANEMOMETER/THERMOMETER	11,147.00	11/1/92
ARGO	AS210-01A	CONTROLLER	5,147.00	11/1/90
ARGO	AS210-02	FREQUENCY COMPARATOR	3,125.00	11/1/90
ARGO	AS210-03	FREQUENCY GENERATOR	5,845.00	11/1/90

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
ARGO	AS210-04	DIGITAL DELAY GENERATOR	5,390.00	11/1/90
ARGO	AS210-05	STANDBY BATTERY	1,678.00	11/1/90
ARGO	AS210-RM	POWER MODULE	14,295.00	11/1/90
ARGO SYSTEMS	AS210-01A	MOOULE CONTROLLER	5,090.00	2/6/86
ARGO SYSTEMS	AS210-02	FREQUENCY COMPARATOR	2,640.00	2/6/86
ARGO SYSTEMS	As210-03	FREQUENCY GENERATOR	5,295.00	2/6/06
ARGO SYSTEMS	AS210-04	DIGITAL DELAY GENERATOR	4,775.00	2/6/86
ARGO SYSTEMS	AS210-RM	MAINFRAME	13,525.00	5/1/85
ARH	AST286	COMPUTER, PERSONAL	2,970.00	4/1/88
ARTECON	DSU2-301J3-	•	14,153.00	4/1/96
	32H		,	,,,,,,,
ATHENA	91 Z -126	POWER PACKAGE	235.00	
AUTOCLAVE ENG	DLA5	COMPRESSOR, AIR/GAS	15,000.00	5/1/93
B & K	2426	AUTORANGING ELECTRONIC	1,600.00	9/1/77
D 0 17	0.400	VOLTMETER	4 222 22	= /4 *** 0
B & K	2426	VOLTMETER	1,600.00	5/1/79
B & K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B&K	2639	PREAMP	593.00	
B & K	2639	PREAMP	593.00	
B&K	2639	PREAMPLIFIER	600.00	
B&K	2639	PREAMPLIFIER	600.00	
B&K	2639	PREAMPLIFIER	600.00	
B&K	2639	PREAMPLIFIER	600.00	
B&K	2804	POWER SUPPLY	1,309.00	7/2/92
B&K	2804	POWER SUPPLY	1,309.00'	7/2/92
B & K	2804	POWER SUPPLY	1,309.00	7/2/92
B&K	2804	POWER SUPPLY	1,309.00	7/2/92
B&K	2804	POWER SUPPLY	1,309.00	7/17/92
B&K	2804	POWER SUPPLY	1,309.00	7/1 7/92
B&K	4133	MICROPHONE	900.00	
B & K	4133	MICROPHONE	900.00	
B&K	4133	MICROPHONE	900.00	

MANUFACTURER	MODEL	DESERIPTION	ACQ. ACQ. COST DATE
B&K	4133	MICROPHONE	900.00
B & K	4133	MICROPHONE	900.00
B&K	4133	MICROPHONE	900.00
B&K	4133	MICROPHONE	900.00
B & K	4133	MICROPHONE	900.00
8 & K	4133	MICROPHONE	900.00
B&K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	90 8.00
B&K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	908.00
B & K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	908.00
B & K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	908:00
B&K	4134	MICROPHONE	908.00
B & K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	908.00
B&K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B&K	4134	MICROPHONE	900.00
B & K	4136	MICROPHONE	900.00
B&K	4136	MICROPHONE	900.00
B & K	4145	MICROPHONE	900.00
B & K	4145	MICROPHONE	900.00

...

MANUFACTURER	MOOEL	DESCRIPTION	ACQ. COST	ACO. DATE
B & K	4145	MICROPHONE	900.00	
B&K	4145	MICROPHONE	900.00	
B & K	4228	SOUND LEVEL CALIBRATOR	5,174.00	10/1/91
B&K	4228	SOUND LEVEL CALIBRATOR	5,174.00	10/1/91
B&K	4228	PISTON PHONE	2,046.00	5/1/92
B&K	4228	PISTON PHONE	2,046.00	5/1/92
B&K	4228	PISTON PHONE	2,1046.00	5/1192
3 & K	4228	PISTON FHONE	2,046.00	5/1P2
B & K	4228	PISTON PHONE	2,046.00	5/1192
B & K	4228	PISTON PHONE	2,046.00	5/1/92
B & K	4231	SOUND LEVEL CALIBRATOR	558.00	
B & K	4231	SOUND LEVEL CALIBRATOR	558.00	
B & K	4231	SOUND LEVEL CALIBRATOR	558.00	
B & K	4231	SOUND LEVEL CALIBRATOR	558.00	
B & K	5908	METER, EXPANDED	16,074.00	7/1/90
B & K	9545	TRANSDUCER ASSEMBLY	3,753.00	
B&K	WB-0981	JUNCTION BOX	714.00	
B & K INSTRUMENTS INC	2425	ELECTRONIC VOLTMETER	724.80	
B & K INSTRUMENTS INC	2426	VOLTMETER AC	1,600.00	9/1/77
B & K INSTRUMENTS INC	2426	VOLTMETER AC	1,600.00	9/1/77
B & K INSTRUMENTSINC	2426	VOLTMETER AC	1,600.00	9/1/77
B & K INSTRUMENTS INC	2426	AUTORANGING ELECTRONIC	1,600.00	9/1/77
B&K	2426	VOLTMETER VOLTMETER AC	1,600.00	9/1/77
INSTRUMENTSINC B&K	2426	VOLTMETER AC	1,600.00	9/1/77
INSTRUMENTSINC B & K	2426	VOLTMETER AC	1,600.00	9/1/77
INSTRUMENTS INC	2426	AUTORANGING ELECTRONIC	1,600.00	9/1 /77
INSTRUMENTSINC B & K INSTRUMENTSINC	2426	VOLTMETER AUTORANGING ELECTRONIC	1,600.00	9/1/77
INSTRUMENTSINC B & K INSTRUMENTS INC	2426	VOLTMETER AUTORANGING ELECTRONIC	1,600.00	9/17
INSTRUMENTS INC	2426	VOLTMETER VOLTMETER AC	1,600.00	9/1/77
INSTRUMENTSINC B&K INSTRUMENTSINC	2426	VOLTMETER AC	1,600.00	9/1/77
B&K	2426	AUTORANGING ELECTRONIC	1,600.00	10/1/77

'I

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC B & K INSTRUMENTS INC	2426	VOLTMETER VOLTMETER AC	1,600.00	9/1/77
B & K INSTRUMENTS INC	2426	AUTORANGING ELECTRONIC VOLTMETER	1,640.64	8/1/78
B & K INSTRUMENTS INC	2426	RMS VOLTMETER	1,640.64	8/1/78
B & K INSTRUMENTS INC	2426	RMS VOLTMETER	1,640.64	8/1/78
B & K INSTRUMENTS INC	2426	RMS VOLTMETER	1,640.64	8/1/78
B & K	2426	VOLTMETER	1,657.00	9/1/82
INSTRUMENTS INC B & K	2606	AMPLIFIER	1,168.14	2/1/75
INSTRUMENTS INC B & K INSTRUMENTS INC	2607	MEASURING AMP.	3,628.60	3/1 /76
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	250.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	250.00	
B & K	2619	PREAMPLIFIER	250.00	
INSTRUMENTS INC B & K	2619	PREAMPLIFIER	442.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B&K	2619	PREAMPLIFIER	442.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	261 9	PREAMPLIFIER	442.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B & K	261 9	PREAMPLIFIER	442.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B & K INSTRUMENTS INC	2619	PREAMPLIFIER	442.00	
B&K	261 9	PREAMPLIFIER	442.00	

INSTRUMENTS INC B & K 2639 PREAMPLIFIERS 887.00 INSTRUMENTS INC 2639	MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC	INSTRUMENTS INC B & K INSTRUMENTS INC	2619 2619 2619 2619 2619 2619 2619 2619	PREAMPLIFIER	442.00 442.00 442.00 442.00 442.00 442.00 442.00 442.00 442.00 442.00	
B&K 2706 SHAKER AMP. 891.10 INSTRUMENTSINC B&K 2801 POWER SUPPLY 321.75	B & K INSTRUMENTS INC	2639 2639 2639 2639 2639 2639 2639 2639	PREAMPLIFIERS	887.00 887.00 887.00 887.00 887.00 887.00 887.00 887.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC				
8 8 K	2804	POWER SUPPLY	733.53	
INSTRUMENTS INC				
B 8 K	2804	POWER SUPPLY	962.00	
INSTRUMENTSINC	2904	DOWED SLIDDLY	962.00	
B 8 K INSTRUMENTS INC	2804	POWER SUPPLY	902.00	
B&K	2804	POWER SUPPLY	962.00	
INSTRUMENTS INC				
B & K	2804	POWER SUPPLY	962.00	_
INSTRUMENTS INC B 8 K	2804	POWER SUPPLY	962.00	
INSTRUMENTSINC	2004	FOWER SUFFLI	302.00	
8 8 K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC				
B&K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC B & K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC	2004	1 OWER GOLL EL	100.00	
B&K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC				
B&K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC B & K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC	2004	1 OWER GOLLE	100.00	
B&K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC				
B&K	2804	POWER SUPPLY	160.00	
INSTRUMENTS INC	2804	POWER SUPPLY	160.00	
INSTRUMENTSINC	2004	1 OWER SOLLET	100.00	
B & K	2804	POWER SUPPLY	988.95	
INSTRUMENTS INC				
B&K	2804	POWER SUPPLY	988.95	
INSTRUMENTS INC	2804	POWER SUPPLY	988.95	
INSTRUMENTSINC	200 (1 0 1 2 1 2 1	200125	
B&K	2804	POWER SUPPLY	988.95	
INSTRUMENTSINC	2004	DOWED OLIDBLY	000 05	
B&K INSTRUMENTS INC	2804	POWER SUPPLY	988.95	
B&K	2804	PWR. SUPPLY, MIC	988.95	• •
INSTRUMENTSINC		, 		
B&K	2804	PWR. SUPPLY, MIC	988.95	
INSTRUMENTS INC	2004	DWD SUDDIV MC	988.95	
B&K	2804	PWR. SUPPLY, MIC	300.33	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC				
B & K	2804	PWR. SUPPLY, MIC	988.95	
INSTRUMENTS INC B & K INSTRUMENTS INC	2804	PWR. SUPPLY, MIC	988.95	
B & K INSTRUMENTS INC	4132	MICROPHONE	250.00	
B & K INSTRUMENTS INC	4132	MICROPHONE	250.00	
B & K INSTRUMENTS INC	4133	MICROPHONE	195.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	41 34	MICROPHONE	210.00	
B & K INSTRUMENTS INC	41 34	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	210.00	
B & K INSTRUMENTS INC	4134	MICROPHONE	250.00	
B & K INSTRUMENTS INC	41 34	MICROPHONE	590.00	
B & K INSTRUMENTS INC	4135	MICROPHONE	200.00	~ .,
B & K INSTRUMENTS INC	4136	MICROPHONE	717.25	
B&K	4142	CALIBRATOR	1,032.00	9/1/74

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC				
B&K	4144	MICROPHONE	250.00	
INSTRUMENTS INC 8 & K	4145	MICROPHONE	883.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	4160	MICROPHONE	1,362.00	5/28/85
B&K INSTRUMENTS INC	4165	MICROPHONE	554.00	
B&K	4220	PISTONPHONE	245.86	
INSTRUMENTS INC B & K	4220	PISTON PHONE	250.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	4220	PISTONPHONE	850.00	
B&K INSTRUMENTS INC	4220	PISTONPHONE	1,029.00	4/1/88
B&K INSTRUMENTS INC	1027A	GENERATOR	7,403.04	1/1/79
B&K INSTRUMENTS INC	2307A	LEVEL RECORDER	6,065.53	8/1/78
8 & K INSTRUMENTS INC	2619/S	PREAMPLIFIER	250.00	
B&K INSTRUMENTS INC	2619/S	PREAMPLIFIER	250.00	
B & K INSTRUMENTS INC	2619/S	PREAMPLIFIER	250.00	
B & K INSTRUMENTS INC	2619S	MICRO. PREAMP	458.00	
B & K INSTRUMENTS INC	2639S	MICROPHONEAMP	737.00	
B&K INSTRUMENTS INC	2645S	MICROPHONEAMP	996.00	
B & K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
B&K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	i i i i i i i i i i i i i i i i i i i
B&K INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
B&K	4133/S	MICROPHONE 3	447.00	-

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
INSTRUMENTS INC	4133/S	MICROPHONE	447.00	
INSTRUMENTS INC B & K	4133/S	MICROPHONE	447.00	
INSTRUMENTS INC B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTSINC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134/S	MICROPHONE	447.00	
B & K INSTRUMENTS INC	4134S	MICROPHONE	300.00	
B & K INSTRUMENTS INC	4134S	MICROPHONE	300.00	
B & K INSTRUMENTS INC	4134S	MICROPHONE	300.00	
B & K INSTRUMENTS INC	41 34S	MICROPHONE	300.00	
B & K INSTRUMENTS INC	413 4 S	MICROPHONE	300.00	
B & K INSTRUMENTS INC	4134\$	MICROPHONE	300.00	
B & K INSTRUMENTS INC	41348	MICROPHONE	300.00	
B & K INSTRUMENTS INC	4134\$	MICROPHONE	300.00	
B&K INSTRUMENTS INC	413 4 S	MICROPHONE	300.00 300.00	
B & K INSTRUMENTS INC	41 34 S	MICROPHONE	300.00	
B&K INSTRUMENTS INC B&K	4134S SQ630	MICROPHONE POWER SUPPLY	1,003.00	8/1/82
~ · · · ·	3400	I OVVEIX OOI I EI	.,	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
INSTRUMENTS INC				
B&K	4231A	SOUND LEVEL CALIBRATOR	492.00	
B&K	WB.0850	VOLTAGE JUNCTION UNIT	1,490.00	7/1/94
BARTH	1990BARTH2	VAN, MOBILE	99,767.00	5/14/90
INDUSTRI E S	8S44			
BARTH		VAN, MOBILE	99,767.00	5/14/90
INDUSTRIES BAUSCH-LOMB	8S44 BVD-73	MICROSCORE	419.00	
BECKMAN	905	MICROSCOPE WWV RECEIVER	555.00	
BEHLMAN	3-10A	POWER SUPPLY		1/1/76
BELL & HOWELL	117226	GALVO DRIVEAMP	1,690.00 875.00	1/1/76
BELL & HOWELL	1-172	GALVO DRIVEAMP GALVO AMP	875.00	
BEST POWER	FE850VA	POWER SUPPLY	1,036.00	3/1P4
BEST POWER	MD1KVA	POWER SUPPLY	1,487.00	3/12/90
BEST POWER	MD1KVA	POWER SUPPLY	1,487.00	3/1/90
BEST POWER	FE3.1KVA	UPS POWER SUPPLY	2,012.00	4/2/96
TECHNOLOGY	LOTTINA	OF STOWER SOFFET	2,012.00	7/2/30
BLACK & WEBSTER	P10-10-2	POWER SUPPLY, P.S.	1,485.00	5/3 1/88
BLACK & WEBSTER	WHD-47	WELDER, ELECTRONIC	638.00	
BLACK BOX	LE673A	BNC CONCENTRATOR	465.00	2/1/94
BLACK BOX	LE673A	BNC CONCENTRATOR	465.00	2/1/94
BLACK BOX CORP	LE8004A	THINNET REPEATER	1,238.00	4/2/96
BRUEL & KJAER	2426	VOLTMETER	1,600.00	7/1/79
BRUEL & KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL& KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL 8 KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL & KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL& KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL& KJAER	2426	VOLTMETER	1,600.00	7/1/79
BRUEL 8 KJAER	2426	VOLTMETER	1,600.00	5/1/79
BRUEL8 KJAER	2426	VOLTMETER	1,600.00	7/1/79
BRUEL& KJAER	2619	PRE-AMP	600 .00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	261 9	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	261 9	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	

- 3

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	2619	PRE-AMP	600.00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	261 9	PRE-AMP	 600 .00	
BRUEL & KJAER	2619	PRE-AMP	600.00	
BRUEL& KJAER	2807	POWER SUPPLY	1,328.00	
BRUEL & KJAER	2807	POWER SUPPLY	1,328.00	
C M FURNACE	1725HT	FURNACE	5,295.00	10/1/91
C M FURNACE	1725HT	CONTROLLER	4,995.00	10/1/91
CAL	1025	PLOTTER	5,673.00	3/1P 2
CALI. INST.	751T	POWER SOURCEAC	2,056.40	10/1/73
CALZONE CASE	NONE	RUGGEDIZED CRT	2,494.00	6/20/86
CALZONE CASE	NONE	RUGGEDIZED CRT	2,494.00	6/20/86
CDC	BK7A1V	DISK-REMOVABLE	42,000.00	2/1/81
CDC	PA3A1A	DISK-REMOVABLE	7,159.00	10/1/87
CDC	PA3A1A	DISK-REMOVABLE	7,159.00	10/1/87
CDC	PA3A1A	DISK-REMOVABLE	7,159.00	10/1/87
CDC	PA5A1A	DISK-WINCHESTER	6,480.00	4/1/87
CEI	M990	MAG TAPE 9 TRACK	19,505.00	1/1/87
CEI	M9 90	MAG TAPE 9 TRACK	23,500.00	12/1/85
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CEL INSTRUMENTS		NOISE GENERATOR	611.13	
CLAROSTAT	240C	DECADERESISTOR	350.00	
CLIMATRONICS	101484	WEATHER RECORDING SYSTEM	13,675.00	11/21/89
CLON	386	COMPUTER, PERSONAL	800.00	1/1/92
CLON	486	COMPUTER, PERSONAL	2,327.00	7/1/94
COLLINS	390A/UR	RECEIVER	100.00	
COMPUADD	51118	DISPLAY	500.00	9/1/93
COMPUAOO	A002	COMPUTER W/KEYBOARD	4,000.00	9/1/93
CONSOLIDATED CONTROL CORP	124A	OSCILLOGRAPH	2,390.00	10/1/85
CONSOLIDATED	5-124	OSCILLOGRAPH	5,967.30	8/1/82 ± 2≠ ∄

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
CONTROL CORP				
CTX INTNL	CVP5468A	DISPLAY	625.00	10/1/91
CWV	H212/D	DISK-FIXED	6,068.00	9/1/93
CYBERNETIC	D210E-51	EMULATOR	1,900.00	
CZD	286	COMPUTER, PERSONAL	1,583.00	3/1/89
CZD	3 86	COMPUTER, PERSONAL	2,400.00	8/1P O
CZD	5 1070	CRT DISPLAY	328.00	1/1/93
CZD	5 1070	CRT DISPLAY	328.00	1/1/93
CZD	ST286	COMPUTER, PERSONAL	1,128.00	9/1/88
CZD	ST286	COMPUTER, PERSONAL	1,128.00	9/1/88
CZD	ST286	COMPUTER, PERSONAL	1,663.00	10/1/88
CZD	ST286	COMPUTER, PERSONAL	1,128.00	9/1/88
D & HINST	PG-102	GENERATOR, PRESSURE	3,365.00	
D & H INSTRUMENT		DEAD WEIGHT TESTER	29,046.00	4/1/87
DATA PROOF	160A	SCANNER	3,650.00	11/13/86
DATAMETRICS	700	POWER SUPPLY	2,220.00	10/1/90
DATUM	9390-2000M	TIME CODE GENERATOR	3,789.00	8/1P 6
DATUM	9390-2000M	TIME CODE GENERATOR	3,789.00	8/1/96
DATUM	9390-2000M	TIME CODE GENERATOR	3,789.00	8/1/96
DATUM	9390-2000M	TIME CODE GENERATOR	3,789.00	8/1P6
DATUM	9390-2000M	TIME CODE GENERATOR	3,789.00	8/1P 6
DCA	120	MULTIPLEXOR	2,804.00	10/1/84
DEC	PE40A-CC	COMPUTER W/KEYBOARD	14,678.00	4/29/93
DEC	PE40A-CC	COMPUTER W/KEYBOARD	9,472.00	8/10/93
DEC	VRT19-HA	DISPLAY	5,000.00	4/29/93
DEC	VRT19-HA	DISPLAY	5,000.00	8/10/93
DELL	286	COMPUTER, PERSONAL	1,200.00	10/1/87
DELL	2136	COMPUTER, PERSONAL	1,200.00	10/1/87
DELL	2136	COMPUTER, PERSONAL	1,200.00	10 i I/ 87
DELL	316LT	COMPUTER, PERSONAL	1,973.00	8/1/91
DELL	3'16LT	COMPUTER, PERSONAL	1,973.00	8/1/91
DELL	316LT	COMPUTER, PERSONAL	1,973.00	8/1/91
DELL	PC100	COMPUTER, PERSONAL	830.00	9/1 /87
DELL	VC-3	CRT DISPLAY	1,700.00	9/1/89
DELTA DESIGN	9023	TEMPERATURE TEST CHAMBER	4,170.00	6/1 /94
DELTA DESIGN	9059	TEST CHAMBER	4,890.00	7/1/8 7
DELTA DESIGN	9023/90 10	TEST CHAMBER, TEMP	4,035.00	7/1/87
DEQ	31 00	GRAPHICS/HIGH END WORKSTATIONS	12,407.00	9/1/91
DEQ	RA60	DISK-REMOVABLE	18,700.00	11/1/83

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE	
DEQ	RA60	DISK-REMOVABLE	12,750.00	11/1/83	
DEQ	RA81	DISK-WINCHESTER	13,140.00	6/1/86	
DEQ		CRT DISPLAY	400.00	9/1/91	
DNX	150	PRINTER, CHARACTER	357.00	10/1/91	
DODGE		TRUCK	8,040.00	1/2/79	
DODGE		TRUCK	8,040.00	1/2/79	
DODGE		TRUCK	8,040.00	1/2/79	
DOLCH COMPUTER		COMPUTER	9,160.00	1 1/1/96	
SYSTEMS			•		
DOLCH COMPUTER SYSTEMS	PAC 586	COMPUTER	9,160.00	11/1/96	
DOLCH COMPUTER SYSTEMS	PAC 586	COMPUTER	9,160.00	11/1/96	
DOMINION	AT	COMPUTER W/KEYBOARD	948.00	7/1 P O	
DPR	CT1210	PRINTER, LINE	17,323.00	6/1/82	
DYNA TECH	116SRL	WELDER T/C	795.00	51 1,00	
E.F. JOHNSON CO.	9600	MODEM	100.00	9/30/96	
E.F. JOHNSON CO.	9600	MODEM	100.00	9/30/96	
E.F. JOHNSON CO.	9600	MODEM	100.00	10/2/96	
E.F. JOHNSON CO.	9600	MODEM	100.00	10/2/96	
E.F. JOHNSON CO.	9600	MODEM	100.00	10/2/96	
E.F. JOHNSON CO.	DL3420	TELEMETRY MODULE	1,270.00	9/1/96	
E.F. JOHNSON CO.	DL3420	TELEMETRY MODULE	1,270.00	9/1/96	
E.F. JOHNSON CO.	DL3420	TELEMETRY MODULE	1,270.00	9/1/96	
E.F. JOHNSON CO.		TELEMETRY MODULE	1,270.00	9/1/96	
E.F. JOHNSON CO.	DL3420	TELEMETRY MODULE	1,270.00	9/1/96	
E.F. JOHNSON CO.	PA3-1AC- SSR	AMPLIFIER	795.00	12/24/96	
E.F. JOHNSON CO.	PA3-1AC- SSR	AMPLIFIER	795.00	12/24/96	
E.F. JOHNSON CO.	PA3-1AC- SSR	AMPLIFIER	795.00	12/24/96	
E.F. JOHNSON CO.	PA3-1AC- SSR	AMPLIFIER	795.00	12/24/96	
E.F. JOHNSON CO.	PA3-1AC- SSR	AMPLIFIER	795.00	12/24/96	
EATON	1011A	RATIO STANDARD	5,891.00	9/1P O	
ECTRON	1120	THERMOCOUPLE CALIBRATOR	4,560.00	5/1/88	
ECTRON	1120	T/C SIMULATOR/CALIBRATOR	4,958.00	9/1/90	
EG & G FLOW		FLOW CALIBRATOR	55,830.00	4/1/95	*
TECH ELECTRIC NAVIGATION	C 550L	RF POWER AMPLIFIER	6,050.00	6/1/85	230

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
ELECTRONIC DEVELOPMENT CORP	501J	VOLTAGE STANDARD	3,720.00	10/1/86
ELGENCO INC.	61 0 A	GENERATOR	1,969.08	1/1/79
ENDNCO	2718A	AMPLIFIER	800.00	
ENDNCO	2718A	AMPLIFIER	800.00	
ENGLEHARD	TYPE B	THERMOCOUPLEWIRE	200.00	6/10/96
ENGLEHARD	TYPE R	THERMOCOUPLE WIRE	200.00	6/10/96
EPA	FX1050	PRINTER.CHARACTER	659.00	5/1/89
EPA	FX85	PRINTER, CHARACTER	349.00	8/1/88
EPA	FX86E	PRINTER, CHARACTER	309.00	6/1187
EPA	LQ950	PRINTER, CHARACTER	512.00	2/1/90
EPA	LX800	PRINTER, CHARACTER	300.00	911/88
EPA	LX800	PRINTER, CHARACTER	300.00	
EPSON	EX800	PRINTER	425.00	10/1/87
EPSON	P70RA	DIGITALPRINTER	300.00	9/1/88
EPSON	P70RA	DIGITALPRINTER	300.00	9/1/88
EPSON	P70RA	PRINTER	200.00	7/1/91
EPSON	P88MA	PRINTER	569.00	12/1/94
ESI	RV722	VOLT DIVIDER	900.00	
ESI	SR104	STD. RESISTOR	3,235.00	4/1/84
EVX	FAD2400	MODEM	187.00	1/1/90
EVX	MD2400	MODEM	198.00	8/1186
F&P	10C1516	FLOWMETER	2,400.00	411/86
FBP	10C1516DCA CJBFXX	,	1,600.00	
FISHER & PORTER	10C1516D	FLOWMETER	1,559.90	
FISHER SCIENTIFIC	109611	VAC PUMP	148.00	
FLUKE	23	MULTIMETER	140.00	
FLUKE	77	MULTIMETER	135.00	
FLUKE	77	MULT IM ETER	135.00	
FLUKE	77	MULTIMETER	135.00	
FLUKE	77	MULTIMETER	135.00	
FLUKE	79	MULTIMETER	160.00	3/1/94
FLUKE	97	SCOPEMETER	1,561.6 5	5/1/92
FLUKE	97	SCOPEMETER	1,561.65	5/1 /92
FLUKE	97	SCOPEMETER	1,562.00	12/1/92
FLUKE	931	TRUE RMS VOLT	1,256.15	1/1/76
FLUKE	19528	FREQ COUNTER	769.16	
FLUKE	332-A	VOLT.STANDARD	2,307.77	4/1/79
FLUKE	45/05	DIGITALMULTIMETER	628.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
FLUKE	5101A	CALIBRATOR	10,758.81	4/1/79
FLUKE	51018	VOLTAGE CALIB	11,746.00	4/1/04
FLUKE	52 K/J	DIGITALTHERMOMETER	169.00	., ., .
FLUKE	5205A	POWER AMPLIF	3,390.15	9/1/76
FLUKE	5450A	RESISTANCE CAL	3,755.30	5/1/85
FLUKE	5450A	RESISTANCE CALIBRATOR	4,465.00	10/1/90
FLUKE	5700A	CALIBRATOR	24,623.00	10/1/90
FLUKE	5725A	AMPLIFIER	7.849.00	10/1/90
FLUKE	6061A	RF SIGNAL GENERATOR	5,541.00	9/1/90
FLUKE	732A	DC REFERENCE STANDARD	2,845.00	911P 2
FLUKE	732A	STANDARD, E	3,055.00	7/16/87
FLUKE	732B	DC REFERENCE STANDARD	3,619.00	10/1194
FLUKE	752A	VOLT. DIVIDER	3,795.25	5/ 1/83
FLUKE	8000A	DIG MULTIMETER	290.03	
FLUKE	8000A	DIG MULTIMETER	290.03	
FLUKE	8000A	DIG MULTIMETER	290.03	
FLUKE	8000A	DIG MULTIMETER	290.03	
FLUKE	80E	VOLT DIVIDER	225.00	
FLUKE	8506A	MULTIMETER RMS	5,920.42	10/1/84
FLUKE	A0088	MULTIMETER	1,066.03	4/24/75
FLUKE	8800A	DIG MULTIMETER	955.45	
FLUKE	8840A	DIG MULTIMETER	930.00	
FLUKE	8842A	DIGITALMULTIMETER	1,070.57	5/1/87
FLUKE	8842A	DIGITAL MULTIMETER	1,395.00	1/1/90
FLUKE	8842A	VOLTMETER	909.15	
FLUKE	8842A/05	DIGITAL MULTIMETER	1,145.00	5/24/88
FLUKE	8842A/05	DIGITAL MULTIMETER	1,096.00	1/1193
FLUE	931B	VOLTMETER	965.15	
FLUKE	931 B	TRUE RMS VOLT	1,256.15	1/1/76
FLUKE	Y5000	CAL. INTERFACE	555.00	
FORD MOTOR CO.	F250	82 PICKUP TRUCK	9,644.00	6/7/96
FTS	4060	FREQUENCY STANDARD	31,948.00	3/1/88
FUJ	FKB293	KEYBOARD	99.00	2/1/86
FUJ	FKB293	KEYBOARD	99.00	2/1/86
FUJ	FKB293	KEYBOARD	99.00	2/1/86
FUJ	M236 1A	DISK-WINCHESTER	8,375.00	8/1/88
GANDALF	3429A5	DISK DRIVE	4,000.00	10/1/87
GDD	2000	MULTIPLEXOR	14,020.00	10/1/87
GENERAL EASTERN	131 1XR	SENSOR, HYGROMETER	8,495.00	5/1/91
GENERAL	1311XR	POWER SUPPLY	1,034.00	5/1/91

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
EASTERN				
GENERAL	М3	HYGROMETER	5,994.00	5/1/91
EASTERN				
GENRAD	1382	GENERATOR	608.85	44.50
GENRAD	1925	MULTIFILER	3,849.60	4/1/79
GENRAD	1986	CALIBRATOR, SOUND LEVEL	945.25	
GENRAD GENRAD	1304B	BEAT FREQ OSC	960.00	
GENRAD GENRAD	1304B 13048	OSCILLATOR	960.00 960.00	
GENRAD	13048 1304B	OSCILLATOR	D	
GENRAD	1403-G	BEAT-FREQUENCY AUDIO STD CAPACITOR	960.00 85.00	
GENRAD	1403-G	STD CAPACITOR STD CAPACITOR		
GENRAD	1403-N	STD CAPACITOR STD CAPACITOR	85.00 115.00	
GENRAD	1404-A	STD.CAPACITOR	500.00	
GENRAD	1409F	STD CAPACITOR	55.00	
GENRAD	1409-F	STD.CAPACITOR	85.00	
G E N W	1409-G	STD.CAPACITOR	85.00	
GENRAD	1409-K	STD.CAPACITOR	85.00	
GENRAD	1409-L	STD. CAPACITOR	85 . 00	
GENRAD	1409-M	STD. CAPACITOR	85.00	
GENRAD	1409T	STD CAP	70.00	
GENRAD	1409-T	STD. CAPACITOR	85.00	
GENRAD	1409-u	STD. CAPACITOR	500.00	
GENRAD	1409-x	STD. CAPACITOR	500.00	
GENRAD	1409Y	STD CAP	200.00	
GENRAD	1409-Y	STD. CAPACITOR	500.00	
GENRAD	1450TB	DECADE ATTENUATOR	375.00	
GENRAD	145OTBR	DECADE ATTENUATOR	395.00	
GENRAD	1482A	STD INDUCTOR	150.00	
GENRAD	1482-c	STD. INDUCTOR	110.00	
GENRAD	1482E	STD INDUCTOR	150.00	
GENRAD	1482G	STD INDUCTOR	150.00	
GENRAD	1482-J	STD. INDUCTOR	1 10.00	
GENRAD	1482L	STD INDUCTOR	150.00	
GENRAD	1482P	STD INDUCTOR	150.00	
GENRAD	1482-R	STD. INDUCTOR	170.00	
GENRAD	15218	LEVEL RECORDER	1,155.00	9/1/73
GENRAD	1521B	GRAPH LEV REC	1,155.00	9/1/73
GENRAD	1521B	RECORDER	1,155.00	9/1/73
GENRAD	1562A	SOUND-LEV CAL	195.00	
GENRAD	1562A	SOUND LEV CAL	195.00	

- ---

MANUFACTURER	MODEL	DESCRIPTION		ACQ. DATE
GERTSCH	1011	DECADE VOLT DI	562.00	
GLOBAL	C5556	COMPUTER CART		3/4/94
GMO	486	COMPUTER, PERSONAL		3/1/93
GMO	486	COMPUTER, PERSONAL		3/1 /93
GMR	486/33	COMPUTER		2/1/93
GOS	1460VG	CRT DISPLAY		2/1/93
GPH	GO250	TERMINAL, CRT, SMART		0/1/86
GPH	GO250	TERMINAL, CRT, SMART	•	0/1/86
GRISWOLD		DIVIDING HEAD	3,520.00 10	
GTW	386	COMPUTER, PERSONAL	3,290.00 1	011/90
GTW	386	COMPUTER, PERSONAL	1,465.00 4	1/1/91
GTW	386	COMPUTER, PERSONAL	1,500.00	3/1/91
GTW	386	COMPUTER, PERSONAL		3/1/91
GTW	386	COMPUTER, PERSONAL	1,500.00	3/1/91
GTW	486	COMPUTER, PERSONAL W/KEYBOARD	1,980.00 6	3/1/92
GTW	486	COMPUTER, PERSONAL	1,385.00	5/1/93
GTW	386/25	COMPUTER, PERSONAL	1,500.00	8/1/91
GTW	PMV14	CRT DISPLAY	300.00	3/1/91
GTW	PMV14	CRT DISPLAY	300.00	8/1/91
GTW	PMV14	CRT DISPLAY	300.00	3/1/91
GTW	PMV14	CRT DISPLAY	300.00	8/1/91
GTW	PMV14	CRT DISPLAY	400.00	6/1/92
GTW	PMV14	CRT DISPLAY	400.00	5/1 /93
GTW	PMV1448	CRT DISPLAY	300.00	3/1/91
GUILDUNE	441 0	VOLTAGE STANDARD	7,860.00 1	2/1/88
GUILDUNE	9923	POWER SUPPLY	6,384.00 10	0/24/81
GUILDLINE	9975	RESIS.BRIDGE	15,355.20 1	0/1/81
GUILDLINE	65206	STANDARD RESISTOR	720.00	1/1/93
GUILDUNE	95206	STD RESISTOR	325.00	
GUILDUNE	9734120	TEMP. BATH	6,432.00	9/1/82
HART SCIENTIFIC	1575	THERMOMETER SYSTEM	9,995.00	3/1/94
HART SCIENTIFIC	9101	ICEPOINT DRYWEU	1,495.00	3/1/92
HART SCIENTIFIC	9113	FURNACE	4,950.00	5/1192
HASTINGS	W - 6	VACUUM GAUGE	275.00	
HASTINGS	W 6 8	VACUUM GAUGE	255.00	
HASTINGS	VT-6B	VACUUM GAGE	215.00	
HEIDENHAIN	ROD 800	ENCODER		5/3/94
HEIDENHAIN	ROD800	ENCODER	4,992.00	6/1/91
HEIDENHAIN	VRZ460	READOUT	•	6/1/91
HEIDENHAIN	VRZ460	ENCODER READOUT	1,758.00	5/ 3/94

ĺ

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLOT PACKARD	201Œ	CABINET	300.00	
HEWLOT PACKARD	30508	DATA ACQ SYST	10,091.42	9/1/76
HEWLETT PACKARD	3325A	FREQ SYNTHESIZ	2,970.00	9/1 off9
HEWLETT PACKARD	33440A	LASER PRINTER	1,545.00	9/1/90
HEWLRT PACKARD	334A	ANALYZER	945.50	
HEWLETT PACKARD	339A	DISTORTION ANA	1,877.00	4/1/84
HEWLETT PACKARD	3455A	DIG VOLTMETER	3,168.00	6/1/77
HEWLRT PACKARD	3 4 55A	DIG. VOLTMETER	2,968.00	1/1/79
HEWLETT PACKARD	3455A	VOLTMETER	3,666.00	9/ 1/79
HEWLETT PACKARD	3457A	MULTIMETER	2,646.00	4/30/86
HEWLRT PACKARD	3457A	MULTIMETER, DIGITAL	2,674.35	5/22/87
HEWLETT PACKARD	3457A	MULTIMETER, DIGITAL	2,731.00	6/3/88
HEWLETT PACKARD	3457A	DIGITAL MULTIMETER	2,779.00	10/1/88
HEWLETT PACKARD	3478A	DIG MULTIMETER	1,248.00	5/1/83
HEWLETT PACKARD	3478A	MULTIMETER, DIGITAL	940.27	
HEWLETT PACKARD	3495A	SCANNER	2,821. 50	2/1/77
HEWLETT PACKARD	3495A	SCANNER	3,415.50	8/1/78
HEWLETT PACKARD	3497A	DATA ACQUISITION SYSTEM	6,579.87	11/1/88
HEWLETT PACKARD	3590A	ANALYZER, WAVE	3,280.00	9/1/86
HEWLETT PACKARD	3594A	OSCILLATOR, SWEEP	1,640.00	9/1/86
HEWLETT PACKARD	5245L	COUNTER	2.95 0.00	4/18/04
HEWLETT PACKARD	5254A	CONVERTER FREQ	1,550.00	4/18/84
HEWLETT PACKARD	5300A	FREQ COUNTER	391.05	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE	
HEWLETT PACKARD	5300A	COUNTER	1,183.05	3/4/83	
HEWLETT	53008	FREQ. COUNTER	777.1 5		
PACKARD HEWLETT	5302A	COUMER	900.00		
PACKARD HEWLETT PACKARD	5321B	FREQ COUNTER	775.00		
HEWLETT PACKARD	5321B	ELECT COUNTER	775.00		
HEWLETT PACKARD	5321B	FREQ COUNTER	775.00		
HEWLETT PACKARD	5489A	PASS FILTER	425.00		
HEWLETT PACKARD	5489A	FILTER	426.95		
H E W W PACKARD	59303A	CONVERTER	1,625.00	6/1/77	
HEWLETT PACKARD	6002A	POWER SUPPLY	1,138.50	8/1/78	ľ
HEWLETT PACKARD	6102A	DC POWER SUPPLY	362.1 <i>5</i>		
HEWLETT PACKARD	6102A	POWER SUPPLY	31 1.85		
HEWLETT PACKARD	61 02A	POWER SUPPLY	351.45		
HEWLETT PACKARD	651A	TESTOSCILLATOR	609.00		
HEWLETT PACKARD	6518	OSCILLATOR	654.00		
H E W W PACKARD	7550A	PLOTTER GRAPH.	2,613.00	1/1/86	
H E W W PACKARD	98034B	INTERFACE	465.85		
HEWLETT PACKARD	C2520B	SCANNER	899.00	9/1/96	
HEWLETT PACKARD	C3142A	PRINTER	2,679.00	4/1/96	
HEWLETT PACKARD	C4576A	PRINTER	490.00	9/1/96	
HEWLETT- PACKARO	16500A	LOGIC STATE ANALYZER	17,19 1.50	3/1/90 `	
H E W W - PACKARD	33258	SYNTHESIZER, FREQUENCY	4,563.00	4/1/91	
HEWLETT- PACKARD	33258	FUNCTION GENERATOR	4,677.00	2/1/93	(
I ACKAKD					

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLETT- PACKARD	34401A	DIGITAL MULTIMETER	995.00	1/1/93
HEWLETT- PACKARD	34401A	MULTIMETER	975.00	3/1P3
HEWLETT- PACKARD	34401A	MULTIMETER	975.00	3/1 /93
HEWLETT- PACKARD	34401A	MULTIMETER	975.00	3/1/93
HEWLETT- PACKARD	34401A	MULTIMETER	<u>97</u> 5.00	3/ 1/93
HEWLETT- PACKARO	3457A	MULTIMETER	2,890.50	5/1/91
HEWLEIT- PACKARO	3458A	MULTIMETER	5,687.00	11/1/90
HEWLETT- PACKARD	3458A	MULTIMETER	5,687.00	11/1/90
HEWLEIT- PACKARD	3458A	MULTIMETER	5,687.00	5/1/91
HEWLETT- PACKARD	3458A	MULTIMETER, DIGITAL	6,199.00	1/1/93
HEWLETT- PACKARD	3458A	DIGITAL MULTIMETER	6,199.00	1/1 193
HEWLETT- PACKARD	355F	VHF ATTENUATOR	992.00	1/1 /93
HEWLETT- PACKARD	3852A	DATA ACQUISITION SYSTEM	3,581.00	5/1/93
HEWLETT- PACKARD	531 6B	FREQUENCY COUNTER	1,389.45	2/19/90
HEWLEIT- PACKARD	5334B	FREQUENCYCOUNTER	3,009.00	1/1/93
HEWLETT- PACKARD	54600A	OSCILLOSCOPE	2,643.00	2/1/93
HEWLEIT- PACKARD	54600A	OSCILLOSCOPE	2,643.00	2/1/93
HEWLETT- PACKARD	6205C	POWER SUPPLY	1,360.00	5/1/91
HEWLETT- PACKARD	7440A	PRIM ER/PLOTTER	854 .70	10/1/90
HEWLEIT- PACKARD	7440A	COLORPRO GRAPHICS PLOTTER	854 .70	10/1/90
HEWLETT- PACKARD	7440A	GRAPHICS PLOTTER	1,046.00	1/1/93
HEWLETT- PACKARD	8902A	RECEIVER, MEASURING	28,217.00	6/1/91
HEWLETT- PACKARD	8904A	MULTIFUNCTION SYNTHESIZER	2,759.00	11/6/90

ť

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLETT- PACKARD	8904A	MULTIFUNCTIONSYNTHESIZER	2,759.00	11/6/90
HEWLETT- PACKARD	9153C	DISK DRIVE	1,672.00	3/1/90
HEWLETT- PACKARD	98561X	COMPUTER	3,971.00	4/1A3
HITACHI	VC6165	DIGITAL STORAGE OSCILLOSCOPE	5,567.50	4/1/90
HITACHI	VC6165	DIGITAL STORAGE OSCILLOSCOPE	5,567.50	4/1/90
HI-TEK	RT-101	KEYBOARD	90.00	
HONDA	EX5500	GASOLINE GENERATOR	2,293.00	5/13/88
HONDA	EX5500	GASOLINE GENERATOR	2,293.00	5/1/88
HONDA	EX5500	GASOLINE GENERATOR	2,293.00	5/1/88
HONDA	EX5500	GASOLINE GENERATOR	2,293.00	5/1/88
HONDA	EZ 2500	GENERATOR	790.00	2/18/97
HONEYWELL	101	TAPE RECORDER	21,061.00	1/1/79
HONEYWELL	101	TAPE RECORDER	21,061.00	1/1/79
HONEYWELL	101	TAPE RECORDER	21,061.00	1/1/79
HONEYWELL	101	TAPE RECORDER	21,061.00	1/1/79
HONEYWELL	1858	OSCILLOGRAPH	16,000.00	4/1/84
HONEYWELL	1858	CHART RECORDER, FIBER OPT	19,575.00	10/1/87
HONEYWELL	1858	CHART RECORDER, FIBER OPT	19,575.00	10/1/87
HONEYWELL	1858	VISICORDER	6,905.00	7/1 /83
HONEYWELL	300AMP	SHUNT	200.00	
HP	11722A	SENSOR MODULE	2,368.00	6/1/94
HP	3325B	FUNCTION GENERATOR	5,296.00	10/1/91
HP	3458A	DIGITAL MULTIMETER	5,687.00	10/1/90
HP	3488A	SWITCH/CONTROL UNIT	3,750.00	10/1/85
HP	5334B	FREQUENCY COUNTER	2,074.00	9/1 /90
HP	6060A	DC ELECTRONIC LOAD	1,795.00	9/1/ 90
HP	70001A	MAINFRAME	8,675.00	6/1/94
HP	70004A	DISPLAY	9,210.00	6/1/ 94
HP	7031 0 A	PRECISION FREQ. REF.	4,725.00	6/1/ 94
HP	70900B	LOCALOSCIUTOR.	15,945.00	6/1 /94
HP	70902A	IF SECTION	4,500.00	6/1 /94
HP	70 9 03A	IF SECTION.	4,275.00	6/1 /94
HP	70909A	RF SECTION.	21,000.00	6/1/ 94
HP	8902A	MEASURING RECEIVER	28,524.00	6/1/94
HP	8903E	DISTORTION ANALYZER	4,082.00	9/1 /90
HP	C2001A	PRIMER	2,086.00	3/1/ 94
HPC	300	COMPUTER, DESKTOP	2,856.00	7/1 /86

HPC 9866 PRINTER, THERMAL 3,216.00 2/1/77 HPC 33449 PRINTER, LASER 1,677.00 11/1/90 HPC 33449 PRINTER, LASER 1,629.00 4/1/91 HPC 33449 PRINTER, LASER 1,629.00 4/1/91 HPC 33449 PRINTER, LASER 1,514.00 5/1/91 HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-DUAL FLOFPY 991.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, THERMAL 3,578.33 9/1179 HPC LASER4 PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HPC 9866 PRINTER, THERMAL 3,216.00 2/1/77 HPC 33449 PRINTER, LASER 1,677.00 11/1/90 HPC 33449 PRINTER, LASER 1,629.00 4/1/91 HPC 33449 PRINTER, LASER 1,514.00 5/1/91 HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122C DISK-□JAL FLOFPY 991.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC	300	COMPUTER. DESKTOP	10.000.00	5/1/93
HPC 33449 PRINTER, LASER 1,677.00 11/1/90 HPC 33449 PRINTER, LASER 1,629.00 4/1/91 HPC 33449 PRINTER, LASER 1,514.00 5/1/91 HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-□UAL FLOFPY 991.00 5/1/93 HPC 9122D DISK-□UAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 220.00 5/1/84					
HPC 33449 PRINTER, LASER 1,629.00 4/1/91 HPC 33449 PRINTER, LASER 1,514.00 5/1/91 HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122C DISK-DUAL FLOFPY 991.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC ILASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84			· · · · · · · · · · · · · · · · · · ·	•	
HPC 33449 PRINTER, LASER 1,514.00 5/1/91 HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-□JAL FLOFPY 991.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC IASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84			· · · · · · · · · · · · · · · · · · ·	•	
HPC 35731 CAT DISPLAY 796.00 9/1192 HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-DUAL FLOPPY 981.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84			•	· ·	
HPC 35741 CAT DISPLAY 800.00 5/1/93 HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-DUAL FLOPPY 981.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84					
HPC 7570A PLOTTER 2,924.00 10/1/88 HPC 9122c DISK-DUAL FLOPPY 981.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84				800.00	
HPC 9122c DISK-DUAL FLOPPY 981.00 5/1/93 HPC 9122D DISK-DUAL FLOPPY 1,217.00 4/1/85 HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84			PLOTTER	2,924.00	
HPC 9835A COMPUTER, DESKTOP 12,013.00 10/1/81 HPC 9876A PRINTER, THERMAL 3,578.33 9/1/79 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84		91 22 c	DISK-JUAL FLOFPY	•	
HPC 9876A PRINTER, THERMAL 3,578.33 9/1179 HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC		DISK-DUAL FLOPPY	1,217.00	
HPC C2106A PRINTER, CHARACTER 331.00 5/1/93 HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC	9835A	COMPUTER, DESKTOP	12,013.00	10/1/81
HPC LASER4 PRINTER, LASER 1,450.00 3/1/94 IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC	9876A	PRINTER, THERMAL	3,578.33	9/1179
IBM 5151 CRT DISPLAY 220.00 5/1/85 IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC	C2106A	PRINTER, CHARACTER	331.00	5/1 /93
IBM 5151 CRT DISPLAY 242.00 5/1/84	HPC	LASER4	PRINTER, LASER	1,450.00	3/1 /94
·	IBM	5151	CRT DISPLAY	220.00	5/ 1/85
IRM 5160 COMPLITED DEDSONAL 16.588.00 12/1/87	IBM	5151	CRT DISPLAY	242.00	5/1/84
COMPOTEN, FENSONAL 10,300.00 12,1101	IBM	5160	COMPUTER, PERSONAL	16,588.00	12/1/87
IBM 5170 COMPUTER, PERSONAL 4,155.00 6/1/86	IBM	5170	COMPUTER, PERSONAL	4,155.00	6/1/86
IBM 5170 COMPUTER, PERSONAL 4,336.00 12/1/85	IBM	5170	COMPUTER, PERSONAL	4,336.00	12/1/85
IBM 5170 COMPUTER, PERSONAL 4,973.00 4/1/85	IBM	5170	COMPUTER, PERSONAL	4,973.00	4/1/85
IBM 5170 COMPUTER, PERSONAL 3,603.00 8/1/86	IBM	5170	COMPUTER, PERSONAL	3,603.00	8/1/86
IBM 5170 COMPUTER, PERSONAL 5,364.00 6/1/86	IBM	5170	COMPUTER, PERSONAL	5,364.00	6/1/86
IBUS 4875 COMPUTER, PERSONAL 6,558.00 12/1/90	IBUS	4875	COMPUTER, PERSONAL	6,558.00	12/1/90
ICK TPR206 SIGNAL CONDITIONER 250.00 9/1193	ICK	TPR206	SIGNAL CONDITIONER	250.00	9/1193
ICK TPR206 SIGNAL CONDITIONER 250.00 9/1193	ICK	TPR206	SIGNAL CONDITIONER	250.00	9/1193
ICK TPR206 SIGNAL CONDITIONER 250.00 9/1193	ICK	TPR206	SIGNAL CONDITIONER	250.00	9/1 193
IDR 8531 COMPUTER, PERSONAL 9,311.00 7/1/92	IDR	8531	COMPUTER, PERSONAL	9,311. 00	7/1 /92
INDUSTRIAL 8531-RV COMPUTER WITH KEYBOARD 6,736.00 6/1/91 COMPUTER SOURCE	COMPUTER	8531-RV	COMPUTER WITH KEYBOARD	6,736.00	6/1/91
INGERSOLL-RAND HRM61-6 REGENERATIVE DRYER 2,600.00 7/1/94		HRM61-6	REGENERATIVE DRYER	2,600.00	7/1/ 94
INGERSOLL-RAND SSR-EP30SE AIR COMPRESSOR 9,284.00 8/1/94					8/1/ 94
INLAND 403 CONTROL CHASIS 12,000.00 3/13/75					
INLAND 823 RATE TABLE 22,396.00 2/1/75		823		22,396.00	
INLAND 1500CP POWER SUPPLY 7,000.00 3/1/75				•	
INSTRULAB 4202 THERMOMETER, DIGITAL 2,845.25 8/1/87				•	
INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94				=	
INTERLAN MPR110V MULTPORT REPEATER, LAN 1,798.00 8/1/91				1,798.00	
ISO 7408 COMPUTER, PERSONAL 2,051.00 2/1/93			*	•	
ISOTHERMAL ITL-M-17701 FURNACE 17,765.00 11/1/90			•		
J.A.KING DS1-30K DIGITAL SCALES 1,670.00 1/1/82				•	1/1/82

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
JARRETT INST.	NONE	WATER TRIPLE POINT	950.00	
JCWS	286	COMPUTER, PERSONAL	4,323.00	5/1/84
JDR	AT	COMPUTER, PERSONAL	1,121.00	1/1/90
JDR	XT	COMPUTER, PERSONAL	688.00	7/1/86
KAYE	K140-4	ICE POINT REF	594.00	.,.,
INSTRUMENTS				
KEAL	NONE	TRANSPORT CASE	2,995.00	5/17/91
KEAL	NONE	TRANSPORT CASE	2₁99 5.00	5/17/91
KEKHLN	181	DIG.MULTIMETER	3,463.00	5/20/83
KEITHLEY	181	DIGITALVOLTMETER	3,067.20	7/1/88
KEITHLEY	199	MULTIMETER	2,500.00	3/1/92
KEITHLEY	5155	MEGOHM STD	525.00	
KEITHLEY	5155	MEGOHM STD	525.00	
KEKHLEY	51 55	MEGOHM STD	525.00	
KEITHLEY	5155	MEGOHM STD	525.00	
KEYTRONIC	E03435	KEYBOARD	85.00	
KEYTRONIC	E03435	KEYBOARD	85.00	
KEYTRONIC	E03435	KEYBOARD	85.00	
KEYTRONIC	E03435	KEYBOARD	85.00	
KINETIC SYSTEMS	V195-DA21	VXI MAINFRAME	6,206.00	5/1/96
KISTLER	3038	ACCELEROMETER	585.00	
KISTLER	561T	AMPLIFIER	840.00	
KISTLER	808K1	ACCELEROMETER	921.50	
KISTLER	808K1/5	CAL. VIB STD	921. 50	
KOEP	VTS6001-1- 01	VOLTAGE STANDARD	1,990.00	9/1 /9 1
KROHN HITE	3343	BAND PASS FILTER	1,761.12	8/11/75
KROHN HITE	6400	PHASE METER	1,403.00	5/1/85
KROHNHITE	6620	PHASEMETER, DIGITAL	3,945.00	4/1/94
KROHN HITTE	310CR	B P FILTER	975.00	
L&N	4210	STD RESISTOR	500.00	
L&N	4214	STD RESISTOR	650.00	
L&N	4361	SHUNT	250.00	
L & N	81 63	SPRT	4,000.00	
L & N	81 63	SPRT	4,000.00	
L&N	4030B	STD. RESISTOR	150.00	
L&N	4030B	STD.RESISTOR	150.00	
L&N	4210-B	STD RESISTOR	1,100.00	10/1/82
L&N	4210-B	STD RESISTOR	1,100.00	10/1/82
L&N	42148	RESISTOR	2,327.00	
L&N	42148	RESISTOR	2,327.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
L&N	4221B	STD RESISTOR	250.00	
L&N	4222B	STD RESISTOR	250.00	
L&N	42238	STD RESISTOR	550.00	
L&N	4321B	RESIST. STND.	3,903.00	1/21/02
L&N	43238	RESISTANCE	3,205.00	9/1/82
L&N	6011-3	TEMP. CONTROL.	862.60	8/1/05
L&W	4050B	STD RESISTOR	150.00	0, 1, 00
LEEDS & NORTHRUP	4214	RESISTANCESTANDARD	5,015.00	7/1P O
LING	DSC4	SERVO CONTROLLER	6,171.00	8/1/94
LING	DSC4	SERVO CONTROLLER	6,171.00	8/2/94
LITHONIA HI-TEK	TV1000MN5 TBHSG	FLOOD LIGHT	260.00	4/23/96
LITHONIA HI-TEK	TV1000MN5 TBHSG	FLOOD LIGHT	260.00	4/23/96
LITHONIA HI-TEK	TV1000MN5 TBHSG	FLOOD LIGHT	260.00	4/23/96
MAX TECH	MS-401	AUTO DATA SWITCH	239.00	
MAXTECH	PB64	BUFFER PRINTER	99.00	
MAXTECH	PB64	BUFFER PRINTER	99.00	
MAYC	286	COMPUTER, PERSONAL	730.00	6/1/88
MDB	DS2000	DISK-WINCHESTER	20,068.00	12/1/90
MENSOR	11900	PRESSINDICATOR	2,780.00	10/1/85
MENSOR	15000	PRESSURE INDICATOR	2,825.00	5/1/ 94
MENSOR	14000B	PRESSURE INDICIATOR, DIGITAL	3,260.00	8/1 /90
MFT	9914R	MAG TAPE 9 TRACK	7,400.00	3/1P 2
MFT	9914R	MAG TAPE 9 TRACK	12,650.00	12/1/90
MGX	7BM623	CRT DISPLAY	500.00	11/1/87
MICRO EXPRESS	REGAL386S X	LAPTOP COMPUTER	2,035.00	8/1/91
MICRON ELECTRONICS	LM-1764	DISPLAY	310.00	9/1 /96
MICRON ELECTRONICS	M55HIPLUS- P166-T	COMPUTER W/ KEYBOARD	7,434.00	9/1/96
MINOLTA/LAND	152A	THERMOMETER	2,789.00	6/1/91
MITSUBISHI	AUM1381A	CRT DISPLAY	400.00	12/1/ 9 0
MITSUBISHI	HC3925L9ET K	DISPLAY	1,798.00	3/1/94
MKS	288	INTERFACE UNIT	1,100.00	1/1/92
MKS	244C	PRESSURE CONTROLLER	1,145.00	1/1/92
MKS	2 45 -1 1179	CONTROLVALVE	1,695.00	
MKS	270C-5	SIGNAL CONDITIONER	2,600.00	1/1/92

.,

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
MKS	270C-5	SIGNAL CONDITIONER	2,600.00	1/1/92
MKS	270C-5	SIGNAL CONDITIONER	2,600.00	1/1/92
MKS	270C-5	SIGNAL CONDITIONER	2,5 25.00	2/1/93
MKS	290-04	ION GAUGE CONTROLLER	1,600.00	1/1/92
MKS	390HA	CAPACITANCE GAUGE	2,500.00	1/1/92
MKS	390HA	CAPACITANCE GAUGE	2,500.00	1/1192
MKS	390HA	CAPACITANCE GAUGE	2,500.00	1/1192
MKS	PDR-C-1C	FOWER SUPPLY	1,625.00	1/1/92
MKS	PDR-C-2C	POWER SUPPLY	1,280.00	1/1/92
MKS	SRG-2-488- SPSH	SR GAUGE CONTROLLER	13,000.00	1/21/92
MKS	VGCS2	VACUUM CONTROLLER	8,200.00	1/1/92
MKS	VGCS-200	VACUUM CAL STATION	33,200.00	1/21/92
MKS	245-S0037-	CONTROLVALVE	1,695.00	6/8/94
INSTRUMENTS	86			
MOD	9230	COMPUTER, SUPERMINI	46,200.00	12/1/90
MOD	9088-4	COMPUTER, SUPERMINI	92,218.00	10/1/91
MONTEREY	516F	ACCEL PROGRAM	20,000.00	10/1/73
RESEARCH MONTERN RESEARCH	9MP1336	SHOCK MACHINE	7,613.50	10/16/73
MONTGOMERY WARD	8013	FREEZER	229.00	
MOTOROLA	D43LRA77A5 CK	RADIO TRANSCEIVER	921.00	10/5/90
MOTOROLA	D43LRA77A5 CK	RADIOTRANSCEIVER	921.00	10/5/90
MOTOROLA	H99SA+03H	2-WAY FM RADIO	1,262.00	1/5/89
MOTOROLA	H99SA+053H	2-WAY FM RADIO	1,262.00	1/5/89
MOTOROLA	H99SA+053H	2-WAY FM RADIO	1,262.00	1/5/89
MOTOROLA	H99SA+053H	2-WAY FM RADIO	1,126.70	1/5/89
MOTOROLA	H99SS+008H	TRANSCEIVER, RADIO	1,974.71	12/10/87
MOTOROLA	H99SS+008H	TRANSCEIVER, RADIO	1,974.71	12/10/87
MOTOROLA	H99SS+008H	TRANSCEIVER, RADIO	1,974.41	12/10/87
MOTOROLA	H99SS+008H	TRANSCEIVER, RADIO	1,974.71	12/10/87
MOTOROLA	HCN1036E90 00	CONTROLLER	512.00	
MOTOROLA	HCN1036E90 00	CONTROLLER	512.00	
MOTOROLA	HCN1036E90 00	CONTROLLER	512.00	
MOTOROLA	HCN1036E90 00	CONTROLLER	512.00	÷

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
MOTOROLA	MVME187	COMPUTER MODULE	7,995.00	2/1/94
MOTOROLA	T99KE-036W	TRANSCEIVER, RADIO	1,755.40	5/25/90
MOTOROLA	T99KE-036W	TRANSCEIVER, RADIO	1,755.40	5/25/90
MOTOROLA	T99VB-004W	RADIO, FM	2,332.78	1/14/88
MOTOROLA	T99VB-004W	RADIO, FM	2,332.78	1/8/88
MOTOROLA	T99VB-004W	RADIO, FM	2,332.78	1/14/88
MOTOROLA	T99VB-004W	RADIO, FM	2,332.78	1/14/88
MVE CRYOGENICS	HL-190	LIQUID NITROGENTANK	9,247.00	12/1/94
NASA	1	VARIAC/DM UNIT	700 .00	
NASA	4 X 8**	SCREEN ROOM	2,000.00	10/16/73
NASA	NONE	VALVE ASSEMBLY	2,000.00	8/3/95
NASA		VIB. CONSOLE	100.00	
NATIONAL INSTRUMENTS	VXI-MXI-2	COMPUTER INTERFACE	4,500.00	5/1/96
NCZ	386	COMPUTER, PERSONAL	3,226.00	8/1 /90
NCZ	486	COMPUTER, PERSONAL	6,027.00	7/1/93
NCZ	486	COMPUTER, PERSONAL	1,103.00	6/1/94
NEF	6205 16	SCANNER	800.00	1/1/94
NEFF	122	AMPLIFIER	565.00	
NEFF	01ai7	AMP. RACK	3,695.70	2/8/82
NEFF	122-223	AMPLIFIER	916.65	
NEFF	122-223	AMPLIFIER	916.65	
NEFF	6201 00AB	DATA ACQUISTION SYSTEM	30,605.00	5/1/83
NEFF	620600AE	DATA ACQUISTION SYSTEM	20,488.00	1/1/90
NEFF	NONE	POWER RACK	271.00	
NEK	17C	CRT DISPLAY	2,625.00	10/1/91
NEMS CLARK	1302A	SPECIAL PURPOSE RECEIVER	400.00	
NEY	CZ805A	CRT DISPLAY	300.00	8/1/90
NEY	JC1403	CRT DISPLAY	440.00	10/1/91
NEY	JC1403	CRT DISPLAY	559.00	4/1/91
NEY	LC890	PRINTER, LASER	3,117.00	11/1/88
NOVATEL	501	GPS ANTENNA	595.00	2/11/97
NOVATEL	511	GPS ANTENNA	365.00	2/11/97
NOVATEL	511	GPS ANTENNA	365.00	
NOVATEL	A031	ANTENNA CHOKE RING	675.00	2/11/97
NOVATEL	PROPAK- FIT20	GPS RECEIVER	6,965.00	2/11/97
NOVATEL	PROPAK- RT20	GPS RECEIVER	6,965.00	2/11/97
OMEGA	CN76133-PV	TEMPERATURE CONTROLLER	235.00	2/1/95
ONO SOKKI	CF 920	SPEC. ANALYZER	20,805.00	10/1/84

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
ONO SOKKI	CF350B	ANALYZER, SPECTRUM	16,530.00	9/1/89
ONO SOKKI	CF360	PORTABLE DUAL CHANNEL	16,055.00	12/1/90
ONO SOKKI	CF360	PORTABLE DUAL CHANNEL	16,055.00	12/1/90
ONO SOKKI	CF940	SPECTRUM ANALYZER	23,560.00	10/1/88
PACIFIC	1038	OSCILLOSCOPE	6,242.00	7/29/86
MEASUREMENTS PACIFIC	1044	X Y RECORDER	2,070.00	7/1/86
MEASUREMENTS			•	
PACIFIC MEASUREMENTS	1038-H13	AMPLIFIER	1,375.00	7/29/86
PACIFIC MEASUREMENTS	1038-V12	AMPLIFIER	1,750.00	7/29/86
PACIFIC MEASUREMENTS	1038-V12	AMPLIFIER	1,750.00	7/29/86
PACKARD BELL	1200	MODEM	89.00	
PAN	506	SCANNER	983.00	4/1/91
PAN	P1124	PRINTER, CHARACTER	294.00	1/1/92
PAN	P1124	PRINTER, CHARACTER	293.55	2/1/92
PAN	P1124	PRINTER, CHARACTER	279.00	6/1/91
PAN	P2123	PRINTER, CHARACTER	251.00	2/1/93
PANASONIC	KXP1124	PRINTER	340.00	5/1/91
PANASONIC	KXP2123	PRINTER	255.00	3/1/94
PANASONIC	LF5010	DISK DRIVE	2,339.00	6/1/91
PAROSCIENTIFIC	21 0 0A	QUARTZ GAUGE	2,350.00	6/1/84
PAROSCIENTIFIC	215AS	PRESSURETRANSDUCER	2,605.00	
PAROSCIENTIFIC	2200A	DIGIQUARTZ GAUGE	2,460.00	
PAROSCIENTIFIC	2200-AS-002	PRESSURETRANSDUCER	2,460.00	
PAROSCIENTIFIC	230A	DIGI QUARTZ GAUGE	2,800.00	
PAROSCIENTIFIC	5206-D-002	PRESSURETRANSDUCER	4,000.00	
PAROSCIENTIFIC	5220D-101	PRESSURETRANSDUCER	3,800.00	
PCB PIEZONTRONICS	483A02	POWER UNIT	450.00	
PCB PIEZOTRONICS	483 A02	POWER UNIT	432.00	
PHLIPS	21	INTERFACE	690.00	9/1 /90
PHOTOCON	PC120	MICROPHONE CAL	235.00	-, -, -
PWRONICS	HSB552-1	HEAD PHONES	113.33	
PLANTRONICS	HSB552-1	HEAD PHONES	113.33	
PWRONICS	HSB552-1	HEAD PHONES	113.33	
PIANTRONICS	HSB552-1	HEAD PHONES	113.33	
PIANTRONICS	HSB552-1	HEAD PHONES	113.33	
PIANTRONICS	HSB552-1	HEAD PHONES	113.33	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
PLANTRONICS	HSB552-1	HEAD PHONES	113.33	
PLANTRONICS	HSB552-1	HEAD PHONES	113.33	
PLAMRONICS	HSB552-1	HEAD PHONES	113.33	
PLANTRONICS	HSB552-1	HEAD PHONES	113.33	
PLAMRONICS	HSB552-1	HEAD PHONES	113.33	
PLAMRONICS	HSB552-1	HEAD PHONES	113.33	
PLANTRONICS	SUPRA	HEADPHONES	100.00	
PLANTRONICS	SUPRA	HEADPHONES	100.00	
PLANTRONICS	SUPRA	HEADPHONES	~†0 0.00	
PLAMRONICS	SUPRA	HEADPHONES	100.00	
PUMRONICS	SUPRA	HEADPHONES	100.00	
PNC	PENT	COMPUTER, PERSONAL	850.00	
PONY COMPUTERS	PEMIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PEMIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PEMIUM	COMPUTER/KEYBOARD	1,618.00	4/2/96
PONY COMPUTERS	PEMIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTER, PERSONAL	1,618.00	4/1/96
PONY COMPUTERS	PEMIUM	PERSONAL COMPUTER	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTER/ KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTER/ KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTER/ KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTEW KEYBOARD	1,618.00	4/1/96
PONY COMPUTERS	PENTIUM	COMPUTER/ KEYBOARD	1,618.00	4/1/96
PRECISION FILTERS	MF32-00-01	FILTERS	34,350.00	11/1/87
PRECISION FILTERS	MF32-00-01	FILTERS	21,350.00	11/1/87
PRECISION FILTERS	MF64000M14	FILTER/AMP SYSTEM	1,31 1.00	5/1/94
PSI	8400	INTERFACE PANEL	1,530.00	7/1/94
PSI	8415	INTERFACE	1,402.00	2/4/92
PSI	8425	SCANNER, DIGITIZER	3,740.00	4/16/92
PSI	32RG	PRESSURE SCANNER	4,273.00	
PSI	7808	PRESS. SYSTEM	4,750.00	6/1/81
PSI	780B/T-02	PRESSURE MEASURE SYSTEM	10,925.00	1/1/81
PSI	780B-02	PRESS MEAS SYS	11,875.00	9/1/82
PSI	780B-200	PRESSURE CALIBRATE UNIT	4,275.00	1/15/81

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
PSI	78-DSP-HH	PRESSURE DISPLAY UNIT	1,748.00	2/28/92
PSI	81-1FC	INTERFACE UNIT	1,410.00	2/6/86
PSI	8400SP	CONTROLLER, PRESSURE	11,220.00	4/29/92
PSI	8400-SP	PRESSURE MEASURING SYSTEM	11,220.00	11/1/90
PSI	8432-30	PRESSURE CALIBRATOR	5,656.00	4/1/92
PSI	8432-300	PRESSURE CALIBRATOR	5,142.00	10/1/91
PSI	8 4 81-01	PCU EXTENDER	<u>98</u> 0.00	
PSI	CV-32L	LEAK CHECK VALVE	1,100.00	
PSI	ESP-16	PRESSURE SCANNER	2,350.00	
PSI	ESP-32	ESP MODULE	1,100.00	9/6/95
PSI	PSA-1	ANALYZER, PRESSURE SCANNR	1,700.00	5/1 5/89
PTX	P600	PRINTER, LINE	7,737.75	10/1/84
QMY	PS800	PRINTER/PLOTTER	2,000.00	3/1/87
QSC	1100	AMPLIFIER	400.00	
QSC	1100	AMPLIFIER	400.00	
QSC	1100	AMPLIFIER	400.00	
QSC	1100	AMPLIFIER	400.00	
QSC	1100	AMPLIFIER	398.00	
QSC	1100	AMPLIFIER	398.00	
QUD	CH 8460	CRT DISPLAY	510.00	8/1/87
RCALLEN	F2880-025	RATE GYRO	500.00	
RACAL DANA	9478	FREQUENCY DISTRIBUTION UNIT	1,872.00	5/1/88
RACALDANA	9478	FREQUENCY DISTRIBUTION UNIT	1,872.00	6/1/88
RACALDANA	9478	FREQUENCY DISTRIBUTION UNIT	1,872.00	6/1/88
RACALDANA	9478	FREQUENCY DISTRIBUTION UNIT	1,872.00	6/1/88
RACALINTERLAN	MPR11O/	REPEATER	1,798.00	2/1/92
RLY	9502	CRT DISPLAY	1,500.00,	7/1 /93
ROSEMOUNT	162D	SPRT CAPSULE	893.60,	
ROSEMOUNT	162D	SPRT CAPSULE	2,626.00	
ROSEMOUNT	162D	SPRT CAPSULE	2,500.00	
ROSEMOUNT	91 2C	FURNACE	17,000.00	12/24/84
ROSEMOUNT	914C2	TEMP BATH	14,000.00	2/1/85
ROSEMOUNT	914C4	TEMP BATH	11,175.00	8/11/75
RUSKA	2465	AIR PISTON GA.	3,690.15	6/20/79
RUSKA	2465	GAUGE, AIR PISTON	10,050.00	2/6/86
RUSKA	2470	AIR PISTON GAGE	2,785.00	10/16/73

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
RUSKA	5100	DEADWTTESTER	9,180.00	10/1/73
RUSKA	6000	MANOMETER	6,009.60	911/76
RUSKA	6000	MANOMETER	9,883.60	6/1/77
RUSKA	6000	PRESS. GAUGE	3,905.00	4/1/81
RUSKA	6000	MANOMETER	5,775.00	411/8 4
RUSKA	6000801	PRESSURE GAGE	10,715.00	4/1/81
RUSKA	2461-80	BELLOWS	1,200.00	7/1/84
RUSKA	2465-752	AIR PISTON GAUGE BASE	5,600.00	11113/89
RUSKA	2465-781	WEIGHT SET	4,1 87 .00	3/1/93
RUSKA	6000-15	MANOMETER	5,500.00	5/1/83
RUSKA	6000-150	MANOMETER, QUARTZ	8,445.00	8/1/91
RUSKA	6000-30	MANOMETER	6,385.00	2/1/86
RUSKA	6000-80	MANOMETER	8,135.00	10/1/77
RUSKA	6000-80	MANOMETER	4,483.00	1/1/79
RUSKA	600-801	PRESS MEA SYST	4,027.60	8/1/75
RUSKA	DDR6000	MANOMETER	5,073.00	611/79
RUSKA	DDR6000	QUARTZ PRESSURE GAGE	1,283.00	7/1 /87
RUSKA	NONE	AIR PISTON GA.	2,81 0.00	6/20/79
RUSKA	S100714	PISTONASSY.	4,100.00	8/18/82
SAMSUNG	CVM4967	DISPLAY	299.00	2/1/93
SAMSUNG	CVP4237P	DISPLAY	300.00	4/1/95
SBP	286	COMPUTER, PERSONAL	1,128.00	9/1/88
SBP	286	COMPUTER, PERSONAL	1,128.00	9/1/88
SBP	286	COMPUTER, PERSONAL	1,128.00	9/1/88
SBP	4095N	CRT DISPLAY	470.00	911/ 88
SBP	4095N	CRT DISPLAY	470.00	10/1/95
SBP	4095N	CRT DISPLAY	470.00	8/1/92
SBP	4095N	CRT DISPLAY	470.00	8/1/92
SBP	4095N	CRT DISPLAY	475.00	7/ 1/90
SEAGATE	ST42100N	DISK DRIVE	1,444.00	10/1/93
SETRA SYSTEM	270	TRANSDUCER	850.00	
SHALLCROSS	6860	PREC RES OECAD	135.00	
SHALLCROSS	6860	RESISTANCEBOX	135.00	
SIGMA INFORMATION SYSTEMS	H189-100	DISK DRIVE UNIT	2,040.00	911 /90
SMU	SM4 70	CRT DISPLAY	400.00	6/1 /94
SNM	3/1 40	GRAPHI CS/HIGH END WORKSTATIONS	66,162.00	2/1/88
SONY	CPD1320	DISPLAY	400.00	6/1/90
SPECTRAL	SD104	OSCILLATOR	2,989.00	6/1/77

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE	
DYNAMICS					
SSU	ST1480N	SEAGATE TECHNOLOGY	3,436.00	4/1/93	
STEELFAB	20-200	AIR TANK	1,166.00	8/1/94	
SUN	A1 1-140	COMPUTER SERVEW	12,500.00	3/20/96	
MICROSYSTEMS		KEYBOARD			
SUN	GDM20E20	DISPLAY	2,000.00	4/1/96	
MICROSYSTEMS SYSTRON DONNER	9120	TIMECODEREADER	4,434.50	4/1/75	
SYSTRON DONNER		TIME CODE READ	4,694.20	9/1/82	
TCX	CM14SBM	CRT DISPLAY	150.00	7/1/94	
TCX	MM1222	CRT DISPLAY	400.00	7/1/93 7/1/93	
TEKTRONIX	2205	OSCILLOSCOPE	625.00	1/1/93	
TEKTRONIX	2215	OSCILLOSCOPE	1,344.00	5/1/ 83	
	7623		•		
TEKTRONIX TEKTRONIX		OSCILLOSCOPE COMPARATOR	3,347.00	4/18/84	
=	015-0310-01		975.00		
TEKTRONIX	015-0311-01	PROGRAMMABLE PULSE HEAD	1,935.00	4/4/04	
TEKTRONIX	7A13 7A26	DIFFERENTIAL COMPARATOR	1,922.00	4/1/84	
TEKTRONIX		DUALTRACE AMPLIFIER	1,388.36	7/1/80	
TEKTRONIX	7B53A	DUALTIME BASE	1,098.11	7/24/80	
TEKTRONIX	7B53A	PLUG IN	1,171.00	4/19/84	
TEKTRONIX	CG5001	PROGRAMMABLE CALIBRATOR	13,085.00	5/28/85	
TEKTRONIX	CG5011	PROGRAMMABLE CALIBRATION GENERATOR	18,072.00	11/1/90	
TEKTRONIX	DC505A	FREQ CONVERTER	1,838.00	4/1 <i>8/04</i>	
TEKTRONIX	FG504	FUNCTION GEN	1,497.00	4/1/84	
TEKTRONIX	PG506	SQUARE WAVEGEN	1,636.00	4/1/84	
TEKTRONIX	SC504	OSCILLOSCOPE	1,838.00	4/18/84	
TEKTRONIX	SC504	OSCILLOSCOPE	5,052.00	10/1/91	
TEKTRONIX	SG503	SIGNAL GEN	1,279.00	4/18/84	
TEKTRONIX	T922	OSCILLOSCOPE	1,301.29	7/1/80	
TEKTRONIX	T922	OSCILLOSCOPE	1,301.29	7/1/80	
TEKTRONIX	T922	OSCILLOSCOPE	1,301.29	7/1/80	
TEKTRONIX	T922R	OSCILLOSCOPE	1,136.81	1/2/79	
TEKTRONIX	T922R	OSCILLOSCOPE	1,136.81	1/1/79	
TEKTRONIX	T922R	OSCILLOSCOPE	1,180.35	8/1/82	
TEKTRONIX	T922R	OSCILLOSCOPE	1,301.29	7/24/80	· -
TEKTRONIX	TG501	TIME MARK GEN	1,475.00	4/1/84	
TEKTRONIX	TM5006	POWER SUPPLY M	1,090.00	5/28/85	
TEKTRONIX	TM5006A	POWER MODULE	1,267.00	11/1/90	
TEKTRONIX	TM506	POWER MODULE	440.00	٠.	
TEKTRONIX	XP29	TERMINAL	2,308.00	4/1/92	. 13 776

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TEKTRONIX	XP29	GRAPHICS COMPUTER	5,344.00	4/1/92
TELEDYNE	VT-6B	VACUUM GAGE	245.00	
TELEDYNE HASTINGS	310	VACUUM GAUGE & TUBE	918.00	2/25/94
TELEX	cs-75	HEADPHONES	100.00	
TELEX	cs-75	HEADPHONES	100.00	
THUNDER SCIENTIFIC	8500	TEMP/HUMIDITY CHAMBER	92,787.00	5/1 i93
TOPCON	CR2	READERWRITER TRANSPORT	490.00	3/1/94
TOPCON	ITS1	OPTICAL THEODOLITE	10,500.00	3/1/94
TRIPP LITE	LCR2400	VOLTAGE REGULATOR	400.00	J, 1, J
TRIPP UTE	LCR2400	VOLTAGE REGULATOR	400.00	
TROEMNER	65000472	CYLINDER STAND	105.00	
TVI	955	TERMINAL, CRT, SMART	470.50	8/1/92
ULTIMATE COMPUTER SUPPLIES	NONE	MICROMANAGER WORKSTATION	130.55	3, 1, 62
ULTIMATE COMPUTER SUPPLIES	NONE	MICROMANAGER WORKSTATION	130.55	
UNHOLTZ DICKIE	1611	CAL STANDARD	1,515.00	2/1/15
UNHOLTZ DICKIE	1611	CAL STANDARD	1,515.00	2/1/75
UNHOLTZ DICKIE	1611	CAL STANDARD	1,515.00	2/1/75
UNHOLTZ DICKIE	1611	STANDARDIZER, CALIBRATION	1,455.00	4/1/87
UNHOLTZ DICKIE	1611	STANDARDIZER, CALIBRATION	1,455.00	4/1/87
UNHOLTZ DICKIE	106A	SHAKER	39,594.00	10/1/73
UNHOLTZ DICKIE	106A-1/2	SHAKER, ELECTRODYNAMIC	24,345.00	4/1/87
UNHOLTZ DICKIE	MA311	CONSOLE, CONTROL	7,930.00	4/1/87
UNHOLTZ DICKIE	TA100A	POWER AMPLIFIER	7,235.00	4/1/87
UNION CARBIDE	891-KZ	NITROGENTANK	1,045.00	10/1/77
VARIAN	V80	VACUUM PUMP SYSTEM	8,800.00	10/2/91
VEECO	MS9	LEAK DETECTOR	5,492.00	7/1/74
VEECO	SC-4	LEAK RATE STANDARD	515.00	., ., .
VEECO	SC-4	LEAK RATE STANDARD	745.00	
INSTRUMENTS VIEWSONIC	7033	DISPLAY UNIT	345.00	3/1/92
VIEWSONIC	7033	DISPLAY UNIT	345.00	3/1/92
VOLUMETRICS	7000 V-1 R	CONTROLLER	250.00	0/1/52
VOLUMETRICS	V-1R	CONTROLLER	250.00	
WAVETEK	4920	VOLTAGE STANDARD	10,915.00	4/1/93
	4920 4953	AC/DC SHUNT	450.00	4/1/93
WAVETEK/DAYTRO		CALIBRATION STANDARD	18,995.00	7/1/94
WATERING	1 330	CALIDRATION STANDARD	10,555,00	111134

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
N				
WELCH	6915	VACUUM PUMP	1,515.00	6/1/92
WELCH	8915	VACUUM PUMP	1,525.00	6/1/92
WELCH	8814A	VACUUM PUMP	1,140.00	3/15/90
WELCH	8814A	VACUUM PUMP	1,140.00	3/15/90
WELCH	8814A	VACUUM PUMP	1,140.00	3/15/90
WELCH	8814A	VACUUM PUMP	1,140.00	3/1 /90
WELCH	891 5A	PUMP: VACUUM	1,095.00	8/13/91
WELCH	8915A	PUMP	1,095.00	8/13/91
WELCH	8915A	PUMP, VACUUM	1,095.00	8/13/91
WELCH	8915A	VACUUM PUMP	1,525.00	2/1/93
WELCH	8915A	VACUUM PUMP	1,595.00	2/1 /94
WEST	2071-02- 1127-21	CONTROLLER TEMPERATURE	680.00	9/1/87
WHITELEY	600	FLOW CONSOLE	74,500.00	11/1/82
WYLE	13X11	DIVIDING HEAD BRACKET	1,000.00	7/18/95
WYLE	5GPM	LOW FLOW CONS.	500.00	
YELLOW SPRINGS INSTRUMENT	M-17669	TIN FREEZE PT	4,000.00	2/28/85
YELLOW SPRINGS INSTRUMENT	NONE	FREEZE POINT. TEMP. STD.	4,500.00	
YOKOGAWA	SO 1050A-1	PRECISION DIVIDING HEAD THERMOCOUPLE WIRE	3,665.00 300.00	6/1/90

(

GENERAL PURPOSE PUNT EQUIPMENT

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
3M	7540	READER/PRINTER	3,889.00	2/1/89
3M COMPANY	61 0 0A	HARMONIC ANALY	3,643.20	2/1/75
3M COMPANY	61 0 A	SWEEP GENERATOR	940.80	_ ,,,,
AAMAZING	CM-8484EX	DISPLAY UNIT	200.00	7/1/91
ACOUSTIC POWER	113	SHAKER	3,430.00	8/1/82
SYSTEMS ACOUSTIC POWER	114	PWR. AMPLIFIER	1,175.00	8/1/82
SYSTEMS	114	I WIX. AWII EII IEIX		0/1/02
ACRP	713 4 T	CRT DISPLAY	150.00	
ADRET	201	GENERATOR	4,326.20	4/1/81
ADRET	21 0S-8	GENERATOR SYNTHESIZER	2,551.10	8/1/78
AERO VAC	202	GAGE CONT ANAL	2,000.00	9/21/73
AERO VAC	202	VAC GAGE ANALY	3,655.00	9/1/73
AHE	4320	MAG TAPE, CASSETTE	995.00	9/1/93
AINSWORTH	CLASS S	WEIGHTS	200.00	
AIR CON	1220000	CLEANING BENCH	1,200.00	10/16/73
AIR PRODUCTS	C	CYLINDER GAS	134.00	
AIR PRODUCTS	NONE C	CYLINDER GAS	134.00	
ALTEC	1591A	AMPLIFIER	589.50	
AMCO	SP25	TORQUE WRENCH	12.00	
ENGINEERING				
CORP.				
AMDEK	VIDEO-300	DISPLAY, COMPUTER	180.00	3/1/ 94
AMPEX	AA620	AMP SPEAKER	240.00	
AMPEX	AA620	AMP. SPEAKER	240.00	
AMPEX	TU-40	FLUTTER METER	2,788.34	10/1/73
AMSLER		INTEG CALIB.	362.50	
AMTHOR	452	TESTER, DEAD WEIGHT	532.00	
AMTHOR	460	TESTER, DEAD WEIGHT	500.00	
AMMOR		DEAD WEIGHT TE	418.00	
ANDATACO	X266T51- JX2S1X	DISK DRIVE	553.00	4/1/96
APC	AT	COMPUTER, PERSONAL	3,152.00	7/1/86
APCO MOSSBERG	A-100	TORQUE WRENCH	44.00	9/15/95
APM	DUODSK	DISK-DUAL FLOPPY	474.00	6/1/89
APM	HD20SC	DISK-WINCHESTER	966.00	5/1/87
APM	IMWTR	PRINTER, CHARACTER	398.00	8/1/93
APM	IMWTR2	PRINTER, CHARACTER	393.00	1/1/90
APM	MAC2CX	COMPUTER, PERSONAL	6,000.00	8/1/89
APM		- , · -	-,	· ·

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST A	CQ. DATE
APM	MACSE	COMPUTER, PERSONAL	2,034.00	2/1 <i>P</i> O
APM	MC2RGB	CRT DISPLAY	659.00	1/1/90
APM	MC2RGB	CRT DISPLAY	699.00	4/1/09
APM	MC2RGB	DISPLAY	625.00	311/90
APM	MC2RGB	CRT DISPLAY	753.00	6/1/88
APM	MC2RGB	CRT DISPLAY	659.00	10/1/89
APPLE	M0115	KEYBOARD	165.00	10/1/03
APPLE	M0116	KEYBOARD	85.00	
APPLE	M0401	DISPLAY	71.0.00	11/1/07 .
APPLE	M3501	KEYBOARD	76.00	11/1/07 .
APPLE	M4300	PERSONAL COMPUTER	7,930.00	4/9/93
APPLE	M5011	COMPUTER	2,156.00	10/1 PO
APPLIED DIGITAL	ADLCAN	DISK DRIVE UNIT	999.00	4/1/96
SYSTEMS	ADLCAN	DISK DIVIVE OINT	333.00	7,1/30
APZ	FT60	TAPE HANDLER	750.00	8/1 <i>E</i> 32
ARH	ASTECD	CRT DISPLAY	500.00	411/88
ARRIFLEX		TORQUE GAGE	50.00	·
ASSOCIATED	R100	CHARGER BATTERY	510.00	
EQUIP. CORP.				
ASTROSYSTEMS	A1202	RESOL STANDARD	1,18100	9/7/76
AUM	AT	COMPUTER, PERSONAL	2,261.00	10/1/86
AUTO SPERRY	550660P	TRANSDUCER	695.00	
B&K	9554	ACCESSORY KIT	3,988.00	
B&K	1616	BANDPASS FILTR	3,355.20	911.182
INSTRUMENTS INC				
B&K	2209	SOUNDLEVEL MTR	2,865.60	8/1/82
INSTRUMENTS INC	0.405	DMC VOLTMETED	1,160.64	4/1/79
B&K INSTRUMENTS INC	2425	RMS VOLTMETER	1,100.04	4/1//9
B&K	2606	VOLTMETER	1,632.00	10/1/73
INSTRUMENTS INC		V 321	1,002.00	20, 1, 1
B & K	2607	SOUND LEVEL ME	4,346.88	3/1/80
INSTRUMENTS INC				
B&K	261.7	CATHODE FOLLOW	350 . 86 .	
INSTRUMENTS INC	2619	AMDLIELED	535.68	
B&K INSTRUMENTS INC	2019	AMPLIFIER	555.00	
B&K	4230	MIKE CALIBRA	177.00	
INSTRUMENTS INC	1230			
B & K PRECISION	510	TRANSISTOR TESTER	110.00	
B&K PRECISION	830	CAPACITANCE METER	300.00	
B&K PRECISION	490	VIDEO ANALYZER	081.00	4/1/94
BALDOR	111	GRINDER-BUFFER	58.00	
BALDWIN LIMA	625	LOAD CAL KIT	272.50	

HAMILTON BALDWIN LIMA 626 GAGE CALIB 265.00 HAMILTON
HAMILTON
DAL DAMALI IMAA
BALDWIN LIMA 626 ST GAGE CALIB 265.00 HAMILTON
BALDWIN LIMA 626 ST GAGE CALIB 265.00 HAMILTON
BALLANTINE 300H VOLTMETER, AC 500.00
BALLANTINE 6125C SCOPE CALIBRATOR 6,500.00 5/1/83
BALLENTINE LAB 6125C SCOPE CALIBRATOR 7,995.00 5/1/92
BARNES FCS-1 BLACKBODY 195.00
BAUSCH-LOMB NONE MICROSCOPE 626.40
BELL & HOWELL NONE CABINET 824.00
BELL & HOWELL SR 900 MICRO READER 175.00
BELL & HOWELL SR VIII READER 177.00
BEU&HOWELL SRVIII READER 177,00
BELL & HOWELL SR900 FILM READER 183.00
BERGER NONE TRIPOD 50.00
BIDDLE 72-6346 RESISTANCE, BOX, DECADE 2,220.00 6/7/88
BINKS 331030 AIR COMPRESSOR 516.60
BIRD ELECTRONIC 611 WATTMETER 28.00 CORP
BLACK & DECKER 582-6 SABER SAW 94.00
BLACK BOX ICO26A NETWORK INTERFACE 605.00 2/1/94
BLACK BOX LE1090A-AUI NETWORK REPEATER 2,045.00 5/1/94
BLACK BOX PI553A PRINT SPOOLER 296.00 1/1/93
BLACK BOX TS286B INTERFACETEST SET, 229.00 CENT.
BLACK BOX CORP LE003A ETHERNETTRANSCEIVER 215.00 4/2/96
BLAKE MFG CO CO-AX INDICATOR 160.00
BOLEY 31047 LAME 1,107.00 10/16/73
BOLEY LATHE 3,000.00 2/20/75
BOONTON 102F SIG GENERATOR 5,359.25 11/1/82
BRIDGEPORT VBA MILLING MACH 5,337.75 10/16/73
BROOKLYN MERCURY THERMOMETER 15.30
BROOKLYN THERMOMETER 15.30
BROOKS 1052 FLOW CALIB 150.00
BROOKS 1051A FLOW CALIBRA. 12,432.42 9/1/74
BROWN & SHARPE 599 MICROMETER 250.00
BROWN & SHARPE 942 MACHINIST KIT 235.00
BROWN & SHARPE C800A VERN HT GAGE 121.75
BTC NT-1412A DISPLAY 500.00 8/23/94

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
BULOVA	TR50	CLEANER	165.00	
CAMILE	22	SHUTTER ANALY	995.00	2/1/85
CANON	K10144A	PRINTER	480.00	2/3/97
CCS	7712A	INTERFACE BRD	202.00	
CEC		PRESSURE REGULATOR	535.00	10/20/72
CHICAGO MAJ		TRIPOD	75.85	
CLARK	C500-25	FORKLIFT	8,950.00	5/28/85
CLAROSTAT	240	POWER RESISTOR DECADE	70.00	0, = 0, 0 0
CLAROSTAT	240C	DEC.4.DE RESIST	99.00	
CLAROSTAT	240C	DECADE BOX	115.00	
CLAROSTAT	240-C	POWER RESISTOR DECADE BOX	72.00	
CLAROSTAT	240-C	POWER RESISTOR DECADE BOX	99.00	
CLAROSTAT	240c	DECADE RESISTOR	350.00	
CLON	286	COMPUTER, PERSONAL	1,400.00	4/1/93
CLON	286	COMPUTER, PERSONAL	2,768.00	2/1/88
CLON	286	COMPUTER, PERSONAL	1,850.00	1/1/88
CLON	MONO	CRT DISPLAY	118.00	12/1/86
CLON	MONO	CRT DISPLAY	1,115.00	8/1P3
CLON	MONO	CRT DISPLAY	1,115.00	7/1 / 93
CMS	STACK3	DISK-WINCHESTER	489.00	5/1 P O
COHERENT	203	POWER METER, LASER	1,950.00	3/1/89
COMPAQ	420	DISPLAY	487.00	3/1P O
COMPAQ	2520	COMPUTER W/KEYBOARD	2,185.00	2/1P O
CONSOLIDATED CONTROL CORP	24-120	LEAK DETECTOR	3,900.00	2/1/75
CONSOUDATED CONTROL CORP	TD2903-	TAPE DEGAUSSER	1,353.40	2/20/75
CONTROL DATA	1209.51	CEALIGNMENT RACK	1,835.00	
CORNELL- DUBILIER	CDA5	DECADE CAP.	26.00	
CORNELL- DUBILIER	CDB3	DECADE CAP.	25.00	
CORNELL- DUBILIER	CDC3	DECADE CAP.	25.06	
CORREN	100	TORQUE GAGE	50.00	
CORREN	500	TORQUE GAGE	50.00	
COX	AIB	FREQUENCY CONVERTOR	400.00	
COX INSTRUMENTS	0.0875	SONIC FLOW NOZZLE .	900.00	
COX INSTRUMENTS	0.1375	SONIC FLOW NOZZLE	900.00	

(

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DAT	E
CPQ	420	CRT DISPLAY	496.00	6/1/91	
CPQ	DP286	COMPUTER, PERSONAL	2,600.00	10/1/87	
CPQ	DIP386	COMPUTER, PERSONAL	6,065.00	6/1/91	
CRAFTSMAN	7830	VACUUM CLEANER	105.00	0/1/01	
CRAFTSMAN	65786 a	TOOL CHEST	180.00		
	65787	1002011201	100100		
CRAFTSMAN	965024N	CHEST/TOOLS	646.06		
CRAFTSMAN	965726N	CHEST W/TOOLS	646.06		
CRONN		CONT ALT CHAMB	250.00		
CTX	CVP-5468N1	DISPLAY	400:00	1/19/93	
INTERNATIONAL					
CVC	GM-100	GAGE	180.00		
CXQ	286	COMPUTER, PERSONAL	2,000.00	4/1/90	
CXQ	1422	CRT DISPLAY	500.00	4/1P O	
CZD	286	COMPUTER, PERSONAL	1,688.00	311 /89	
CZD	286	COMPUTER, PERSONAL	1,688.00	3/1/89	
CZD	206	COMPUTER, PERSONAL	1,583.00	3/1/89	
CZD	286	COMPUTER, PERSONAL	1,583.00	3/1/89	
CZD	286	COMPUTER, PERSONAL	1,583.00	3/1/89	
CZD	2136	COMPUTER, PERSONAL	1,583.00	3/1/89	
CZD	286	COMPUTER, PERSONAL	1,226.00	5/1/89	
CZD	286	COMPUTER, PERSONAL	1,749.00	7/1/87	
CZD	51 086	CRT DISPLAY	400.00	8/1/86	
CZD	51 086	CRT DISPLAY	334.00	5/1/91	
CZD	51086	CRT DISPLAY	334.00	5/1PI	
CZD	51086	CRT DISPLAY	334.00	5/1/91	
DAKE	0	DRAKE PRESS	85.00		
DANIELS MFG	M83507/7-01	CRIMPING TOOL KIT	920.00	7/24/95	
DATA CHECK	1218	POWER SUPPLY	2,050.00	3/30/92	
DATA CHECK	18002	EXTENDER BOARD	250.00	7/23/96	
DATA	6275	FM TEST UNIT	200.00		
MEASUREMENTS					
DATA PRECISION	175	MULTIMETER	183.33		
DATA PRECISION	245	DIG MULTIMETER	280.25		
DATA PRECISION	245	DIG MULTIMETER	286.15		
DATA PRECISION	938	CAPACITANCE METER	225.00		
DATAMETRICS	525	HEATER BASE	475.00		
DATAMETRICS	525	HEATER BASE	475.00	8/3/95	:
DATAMETRICS	525	HEATER BASE	475.00	8/3/95	
DATAMETRICS	525	HEATER BASE	475.00	8/3/95	
DATAMETRICS	525	HEATER BASE	475.00		
DATAMETRICS	525	BAROCELHEATER BASE	150.00	4/2/96	
					3

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST &	CQ. DATE
DATAMETRICS	699	POWER SUPPLY	570.00	
DATAMETRICS	699	POWER SUPPLY	1,100.00	8/1/89
DATAMETRICS	700	POWER SUPPLY	550.00	4,,,55
DATAMETRICS	700	POWER SUPPLY	604.50	
DATAMETRICS	1015	SIGNAL COND.	1,740.00	6/1/85
DATAMETRICS	1015	SIGNAL COND.	1,740.00	6/1/85
DATAMETRICS	1015	SIGNAL COND.	1,740.00	6/1/85
DATAMETRICS	1015	SIGNAL COND.	1,740.00	6/1/85
DATAMETRICS	1174	MANOMETER	1,553.25	8/1/75
DATAMETRICS	1174	PRESS SYS	1,553.25	1/1/76
DATAMETRICS	1015-	SIGNAL COND.	1,740.00	6/1/85
	D4C12A1G			
DATAMETRICS	1015D5C	SIG CONDITIONE	1,296.75	8/1/75
DATAMETRICS	1015D5C	SIG CONDITIONE	1,296.75	8/1/75
DATAMETRICS	1 015D5C	SIG CONDITIONE	1,296.75	8/1/75
DATAMETRICS	1 015D5C	SIG CONDITIONE	1,296.75	8/1/75
DATAMETRICS	1 01 88	MANOMETER SYST	2,185.00	2/1/75
DATAMETRICS	1174- A5A4A1A1	MANOMETER	1,477.25	8/1/75
DATAMETRICS	571 D-10	PRESS SENSOR	1,254.00	3/1 /76
DATAMETRICS	571D-10	PRESS SENSOR	1,372.75	8/1/75
DATAMETRICS	571D-10	PRESS SENSOR	1,254.00	3/1/76
DATAPULSE	101	PULSE GENERATOR	405.00	
DATAPULSE	101	PULSE GENERAT.	410.00	
DATAPULSE	110B	PULSE GENERATOR	1,212.50	10/1/73
DATATAPE	TSC2000	TAPE CALIBRATOR	9,952.00	<u>311/89</u>
DATATAPE	TSC-2000	TAPE CALIBRATOR	12.21 8.00	10/1/91
DATRON	4708	STANDARD CALIBRATION	24,810.00	911/90
DATRON	4000A	VOLT. CALIBRA	603.00	
DATUM	9110	GENERATOR, TIME CODE	3,088.00	6/1/76
DAYTON	32528	AIR DRYER	446.21	
DAYTON	3 Z 574	EXHAUSTER	421.00	
DELL	286	COMPUTER, PERSONAL	1,200.00	10/1/87
DELL	286	COMPUTER W/KEYBOARD	2,533.00	9/1/86
DELL	286	COMPUTER, PERSONAL	2,767.00	10/1/87
DELL	286	COMPUTER, PERSONAL	2,674.00	9/1/87
DELL	31.0/4	COMPUTER	5,889.00	10/1/89
DELL	AT121	COMPUTER, PERSONAL	2,348.00	4/1/93
DELL	D825HT	CRT DISPLAY	400.00	5/29/97
DELL	MONO1	CRT DISPLAY	350.00	3/1/90
DELL	MONO1	CRT DISPLAY	400.00	9/1/93
DELL	MONO1	CRT DISPLAY	400.00	9/1/93

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
DELL	MONO1	CRT DISPLAY	400.00	9/1/93
DELL	PC112	COMPUTER, PERSONAL	1,018.00	6/1/87
DELL	PC200	COMPUTER, PERSONAL	1,772.00	4/1/88
DELL	PC200	COMPUTER, PERSONAL	3,051.00	9/1/89
DELL	PC200	COMPUTER, PERSONAL	1,490.00	6/1/86
DELL	SMS	NETWORK SERVER	5,400.00	5/29/97
DELL	vc2	DISPLAY	400.00	10/1/89
DELL	XTURBO	COMPUTER, PERSONAL	1,000.66	911/88
DELTA DESIGN	3900CN	TEST CHAMBER	3,215.00	10/29/85
			- TP	
DELTA DESIGN	9059-5-31	TEST TEMPERATURE CHAMBER	6,290.00	4/5/90
DEQ	VR260	CRT DISPLAY	6,217.00	8/1/88
DESKTOP DISPLAYS	DDU1528	DISPLAY	200.00	4/1/ 96
DESKTOP	DDU1528T	DISPLAY	200.00	4/1/96
DISPLAYS	DD0 (020)	DISI LAT	200.00	1/1/55
DESKTOP	DDU1528T	DISPLAY	200.00	4/1/96
DISPLAYS				., .,
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS				
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS				- 4.4 500 - 4
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS DESKTOP	00 54641	DICRIAN	200.00	4/4/00
DISPLAYS	GO-5164L	DISPLAY	200.00	4/1/96
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS	GD-5104E	DISPLAT	200.00	4/ 1/90
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS	02 0.0.2	2.0. 2	200.00	,, ,, , ,
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS				
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS				
DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS	OD 54041	DIODI AV	222.22	1/1/00
DESKTOP	GD-5164L	DISPLAY	200.00.	4/1/96
DISPLAYS DESKTOP	GD-5164L	DISPLAY	200.00	4/1/96
DISPLAYS	GD-510-1L	DISPLAT	200.00	4/ 1/90
DESKTOP	GD-5164L	DISPLAY .	200.00	4/1/96
DISPLAYS			200.00	1, 1,700
DI-ACRO	3	SHEARER	335.00	
DI-ACRO	4	HAND SHEARS	1,230.00	10/24/81
DI-ACRO	24	BRAKE	1,100.00	10/24/81
		= ·· · · =	.,,,,,,,,	
				Section 1991 and their

!

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
DIGITEC	3110	CURRENT SOURCE	1,256.15	4/1/79
DILLON	E	FORCE GAUGE	911.00	4/1/94
DMC	6275	FM TEST UNIT	500.00	
DO ALL	779	OMNI-VISE	449.00	
DO A U	1BX24X4	GRAN SURFPLAT	187.00	
DO ALL	G-R	GAGE BLOCKS	58.50	
DO ALL	NONE	TABLE	660.00	
DO ALL		BENCH GRINDER	97.00	
DO ALL.		BAND SAW	4,793.00	1 0/1 6/73
DOALL	24X24X5	INSPECTION BLOCK	500.00	7/19/95
DOLCH INSTS.	64300	ANALYZER, LOGIC	14,335.50	4/1/06
DOUGHBOY INDUSTRIES	HS-C	BAG SEALER	150.00	8/3/95
DREMEL	395	MOTO-TOOL	127.00	
DREMEL	380-S	MOTO TOOL KIT	60.00	
DRESSER	71 0 A	PRESS.INDICATO	1,260.00	
DRESSER	ROTO TORQ	TORQUE WRENCH	116.00	
DRUCK	DPI/40	INDICATOR	3,470.00	11/1/86
DRUCK	DP1605	PRESSURE CALIBRATOR	5,950.00	4/1/93
DRUCK	DP1605	PRESSURE CALIBRATOR	6,775.00	8/9/94
DRUCK	PDCR 910- 1422	PRESSURETRANSDUCER	550.00	8/1 <i>/</i> 94
DRUCK	PDCR910	PRESSURETRANSDUCER	540.00	4/1/93
DUMORE	55-011	TOOL GRINDER	284.00	
DUNKLEBERGER	236	RESIST SUB BOX	20.00	
DUNKLEBERGER	236	RESIST SUB BOX	20.00	
DUNKLEBERGER	236	RESIST SUB BOX	20.00	
DUNKLEBERGER	236	RESIST SUB BOX	20.00	
DVC	6275	CALTEST UNIT	500.00	
DYNISCO	1000	CALIBRATOR	1,875.00	11/12/86
EBERUNE	PAC-1SA	PORTABLE ALPHA COUNTER	654.00	
EBERLINE	S94-1	PLUTO ALPHA SD	300.00	
ECD CORPORATION	100	CAP METER	295.00.	
ECD CORPORATION	100	CAPACIT.METER	289.00	
ECTRON	1120	CALIBRATOR	5,078.00	10/1/84
ECTRON	1120	THERMOCOUPLE CALIBRATOR	4,560.00	5/1/88
ECTRON	1100CF	CALIBRATOR	2,774.40	7/1/80
ECTRON	1 100 CP	THERMO CALIBR.	2,538.00	8/1/78
EDC CORPORATION	520A-D	STANDARD VOLT ·	5,645.00	4/30/86

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST ACQ. DATE
EDC CORPORATION	M ∨100	VOLT.STANDARD	850.00
EDC CORPORATION	MV-106	VOLTAGE STANDARD	1,697.50 4/1/88
EDWARDS EG & G FLOW TECH	1570 FTBP	PRESSURE INDICATOR INTERFACE UNIT	605.00 3/18/94 1,500.00 4/18/95
EG&G EG&G EG&G EIP MICRO. ELEC SCIENTIFIC ELECTRO INTERNATIONAL	3Qo 300 550-1 578 242D PLT1/PP	HYGROMETER D.P HYGROMETER, DEWPOINT PHOTOMETER FREQ. COUNTER WHEAT BRIDGE POWER SUPPLY	9,244.90 6/1/85 10,264.80 711/87 2,908.00 8/19/88 15,375.00 5/1/83 4,315.50 2/20/75 2,030.00 4/1/81
ELECTRONIC DEVELOPMENT	501	VOLT STD.	3,259.20
CORP. ELECTRONIC DEVELOPMENT CORP.	501H	VOLTAGE STANDARD	3,259.00 4/10/87
ELECTRONIC DEVELOPMENT CORP.	CR103	DC VOLTAGE STANDARD	1,850.00 5/1/83
ELECTRONIC DNELOPMENT CORP.	MV100N	DC STANDARD	745.610
ELECTRONIC DEVELOPMENT CORP.	MV100N	POWER SUPPLY	805.10
ELECTRONIC DNELOPMENT CORP.	MV100N	VOLTAGE STD.	805.10
ELECTRONIC DEVELOPMENT CORP.	MV100N	VOLTAGE STD.	747.50
ELECTRONIC DEVELOPMENT CORP.	VS-111 N	DC VOLTAGE STANDARD	845.00
ELIS EMCOR EMPIRE ABRAI ENDNCO ENDNCO ENDNCO ENDNCO	PHVD NONE P-50 2225 2225 2623 2224C	VOLTAGE DIVIDE INSTR RACK SANDBLASTER ACCELEROMETER ACCELEROMETER POWER SUPPLY ACCELEROMETER	2,996.00 8/1/82 100.00 100.00 366.00 366.00 255.00 200.00

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
EPA	FX1050	PRINTER, DIGITAL	471.00	
EPA	FX1050	PRINTER, DIGITAL	471 .00	
EPA	FX1050	PRINTER, CHARACTER	449.00	5/1/89
EPA	FX286E	PRINTER, CHARACTER	562.00	8/1/92
EPA	FX286E	PRINTER, CHARACTER	306.00	8/1/92
EPA	FX286E	PRINTER, CHARACTER	530.00	8/1/92
EPA	FX286E	PRINTER, CHARACTER	530.00	3/1/88
EPA	FX80	PRINTER, CHARACTER	200.00	1/1/91
EPA	FX80	PRIMER, CHARACTER	630.00	6/1/83 -
EPA	FX80	PRINTER, CHARACTER	700.00	6/1/88
EPA	FX85	PRINTER, CHARACTER	3139.00	12/1/85
EPA	FX85	PRINTER, CHARACTER	400.00	8/1/85
EPA	FX85	PRINTER, CHARACTER	395.00	3/1/86
EPA	FX85	PRINTER, CHARACTER	359.00	al /86
EPA	FX85	PRINTER, CHARACTER	323.00	1/1/86
EPA	FX850	PRINTER, CHARACTER	445.55	10/1/91
EPA	FX850	PRINTER, CHARACTER	445.55	10/1/91
EPA	FX850	PRINTER, CHARACTER	536.00	2/1 <i>P</i> O
EPA	FX-850	PRINTER, CHARACTER	200.00	1/1/92
EPA	FX86E	PRINTER, CHARACTER	3'86.00	12/1/87
EPA	FX86E	PRINTER, CHARACTER	289.00	4/1/88
EPA	FX86E	PRINTER, CHARACTER	369.00	4/1/87
EPA	FX86E	PRINTER, CHARACTER	346.00	9/1/87
EPA	FX86E	PRINTER, CHARACTER	309.00	6/1/87
EPA	LX800	PRINTER, CHARACTER	200.00	
EPA	MX80	PRINTER, CHARACTER	592.00	
EPA	MX80	PRINTER, CHARACTER	559.00	
EPA	MX80	PRINTER, CHARACTER	710.00	
EPA	MX80	PRINTER, CHARACTER	559.00	
EPA	P82PA	PRINTER, CHARACTER	383.00	=
EPA	P82PB	PRINTER, CHARACTER	336.00	
EPSON	FX850	PRINTER	367.00	
EPSON	L Q 950	PRINTER	512.00	
EPSON	P70RA	DIGITAL PRINTER	300.00	
EPSON	P70RA	DIGITAL PRINTER	300.00	911/88
EPSON	P70RA	DIGITAL PRINTER	300.00	
EPSON	P70RA	DIGITAL PRINTER	300.00	
EPSON	P70RA	PRINTER	200.00	
EPSON	P70RA	PAINTER	200.00	
EPSON	P82AA	PRINTER, DIGITAL	386.00	
EPSON	P82PA	PRINTER	368.00	5/1/89

MANUFACTURER	MODEL	DESCRIPIION	ACQ. COST	ACO. DATE
EPSON	P88MA	PRINTER	628.00	2/1/88
ESI	801	DETECTOR DC	1,31 4.35	2/20/75
ESI	874	PHASE COMP	402.00	
ESI	231C	WHEATSTONE RESISTANCE MEASURING SYSTEM	2,263.49	10116/73
ESI	LC875B	LEAD COMPENS.	354.68	
ESI	SR1010	RESIST. STD.	715.00	
ETHERNET	LEOSOA	TRANSCEIVER	323.28	
ETHERNET	LEOSOA	TRANSCEIVER	323.28	
ETHERNET	LEOSOA	TRANSCEIVER	323.28	
ETHERNET	LEOSOA	TRANSCEIVER	323.28	
ETHERNET	LEOSOA	TRANSCEIVER	323.28	
EW	MN200	CRT DISPLAY	400.00	8/1/88
EVX	1800A	COMPUTER, PERSONAL	2,199.00	1011/87
EVX	1800A	COMPUTER, PERSONAL	2,327.00	11/1/87
EXACT	124	FUNCTION GENERATOR	577.1 5	
EXACT	124	FUNCTION GENERATOR	577.1 5	
FAIR MO	5901	WEIGHT SCALE	127.50	
FISHER SCIENTIFIC	1096V1	VAC PUMP	162.00	
FISHER SCIENTIFIC	50ML	BURET	37.50	
FLUKE	8.0E-09	VOLTAGE DIVIDER	395.00	
FLUKE	23	DIGITAL MULTIMETER	143.10	
FLUKE	23	DIGITAL MULTIMETER	143.10	
FLUKE	23	DIGITALMULTIMETER	143.10	
FLUKE	23	DIGITAL MULTIMETER	143.00	
FLUKE	23	MULTIMETER	140.00	4/1/91
FLUKE	23	MULTIMETER	140.00	
FLUKE	52	DIGITALTHERMOMETER	170.10	
FLUKE	77	DIG MULTIMETER	129.00	
FLUKE	<i>7</i> 7	MULTIMETER	116.10	
FLUKE	77	MULTIMETER, DIG.	116.10	
FLUKE	77	MULTIMETER, DIG.	116.10	
FLUKE	77	MULTIMETER, DIG.	116.10'	
FLUKE	77	MULTIMETER, DIG.	1 16.10.	
FLUKE	77	MULTIMETER, DIG.	116.10	
FLUKE	<i>7</i> 7	DIGITALMULTIMETER	107.10	
FLUKE	77	DIGITAL MULTIMETER	107.10	
FLUKE	77	DIGITAL MULTIMETER	107.10	
FLUKE	77	DIGITAL MULTIMETER	107.10	
FLUKE	77	DIGITAL MULTIMETER	107.10	
FLUKE	77	DIGITAL MULTIMETER ,	130.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST ACQ. DATE
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	MULTIMETER	130.00
FLUKE	77	MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	130.00
FLUKE	77	DIGITAL MULTIMETER	138.00
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	138.00
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	138.00
FLUKE	77	DIGITAL MULTIMETER	138.00
FLUKE	77	DIGITAL MULTIMETER	143.1 0
FLUKE	77	DIGITAL MULTIMETER	143.10
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	143.10
FLUKE	77	DIGITAL MULTIMETER	143.10
FLUKE	77	DIGITAL MULTIMETER	143.10
FLUKE	77	DIGITAL MULTIMETER	143.10
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	143.1 O
FLUKE	77	DIGITAL MULTIMETER	143.10
FLUKE	77	MULTIMETER	140.00
FLUKE	77	DIGITAL MULTIMETER	180.00 1/1/92
FLUKE	77	DIGITAL MULTIMETER	180.00
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00 1/1/92
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	1E10.00
FLUKE	<i>7</i> 7	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00 .
FLUKE	77	DIGITAL MULTIMETER	180.00
FLUKE	77	DIGITAL MULTIMETER	180.00 1/1/92
FLUKE	77	DIGITAL MULTIMETER	143.00 12/1/92
FLUKE	77	DIGITAL MULTIMETER	143.00 12/1/92
FLUKE	77	DIGITAL MULTIMETER	143.00 12/1/92
FLUKE	$\frac{n}{-}$	DIGITAL MULTIMETER	143.00 1/1/93
FLUKE	77	DIGITALMULTIMETER	143.00 1/1/93
FLUKE	$\frac{n}{2}$	DIGITALMULTIMETER	143.00 1/1/93
FLUKE	77	DIGITAL MULTIMETER	143.00 1/1/ 93

MANUFACTURER	IMODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
FLUKE	77	DIGITAL MULTIMETER	143.00	1/1/93
FLUKE	7 7	DIGITAL MULTIMETER	143.00	1/1/93
FLUKE	87	DIGITAL MULTIMETER	251.00	
FLUKE	87	DIGITAL MULTIMETER	25 1.00	
FLUKE	87	DIGITAL MULTIMETER	251.00	
FLUKE	87	DIGITAL MULTIMETER	261 .00	
FLUKE	87	DIGITAL MULTIMETER	261.00	
FLUKE	87	DIGITAL MULTIMETER	261.00	12/1/92
FLUKE	95	SCOPEMETER	1,300.00	12/1/92
FLUKE	97	SCOPEMETER	1,561.00	12/1/92
FLUKE	200	IC TESTER	431.65	
FLUKE	207	RECEIVER	2,775.00	2/1/86
FLUKE	36982	THERMOCOUPLE SELECTOR	635.00	
FLUKE	103A	COMPARATOR	1,995.00	4/1/81
FLUKE	1920A	FREQ COUNTER	1,446.41	8/9/78
FLUKE	2176A	TEMP INDICATOR	546.25	
FLUKE	2176A	THERMOMETER	617.50	
FLUKE	21 90A	DIGTHERMOMETER	1,045.00	6/1/85
FLUKE	21 90A	DIGTH ERMOMETER	1,045.00	6/1/85
FLUKE	21 90A	DIGTHERMOMETER	1,045.00	6/1/85
FLUKE	2190A	DIGITALTHERMOMETER	1,299.00	3/1/83
FLUKE	2190A1	DIGITALTHERMOMETER	1,085.00	10/1/90
FLUKE	332B	POWER SUPPLY	2,295.00	10/1/73
FLUKE	332D	POWER SUPPLY	2,935.10	2/1/75
FLUKE	332D	POWER SUPPLY	2,935.10	9/1 <i>f74</i>
FLUKE	3320	POWER SUPPLY	6,388.75	7/1/83
FLUKE	335D	DC VOLTAGE STANDARD	3,584.15	3/1 /76
FLUKE	343A	DC VOLTAGE CALIBRATOR	1,935.15	1/1/76
FLUKE	343A	DC VOLTAGE CALIBRATOR	1,935.1 5	
FLUKE	343A	DC VOLTAGE CALIBRATOR	2,129.1 5	2/1/77
FLUKE	407D	POWER SUPPLY	360.00	
FLUKE	408A	POWER SUPPLY	990.00	
FLUKE	408A	POWER SUPPLY	2,500.00	
FLUKE	51 00A	CALIBRATOR	7,918.99	1/1/79
FLUKE	51 00B	VOLT.CALIBRATO	8,635.20	10/1/81
FLUKE	52 WJ	DIGITALTHERMOMETER	189.00	
FLUKE	52 WJ	DIGITALTHERMOMETER	169.00	
FLUKE	5200A	VOLT CALIBRA	3,915.10	2/1/75
FLUKE	5200A	VOLT CALIBRA	4,360.1 <i>5</i>	3/1/76
FLUKE	5200A	AC VOLTAGE CALIBRATOR	17,719.00	
FLUKE	5205A	PWR AMPLIFIER	7,881.90	6/26/85

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
FLUKE	5205A	POWER AMPLIFIER	8,413.00	6/20/86
FLUKE	5215A	POWER AMPLIFIER	2.100.00	3/28/09
FLUKE	5220A	AMPLIFIER	3,370.00	3/5/00
FLUKE	5440A	CALIBRATOR	12,302.50	7/7/83
FLUKE	8020A	MULTIMETER	182.00	
FLUKE	8020A	DIG. MULTIMTR.	182.00	
FLUKE	8020A	DIG. MULTIMTR.	182.00	
FLUKE	8020A	DIG MULTIMTR	182.00	
FLUKE	8020B	DIGITAL MULTIMETER	186.79	
FLUKE	8050A	DIGITAL MULTIMETER	374.52	
FLUKE	8060A	DIG.MULTIMETER	349.00	
FLUKE	8060A	DIG.MULTIMETER	349.00	
FLUKE	8060A	MULTIMETER, DIG.	334.00	
FLUKE	80 6 0A	DIGITALMULTIMETER	351.00	
FLUKE	8062A	MULTIMETER, DIG.	265.50	
FLUKE	8062A	MULTIMETER, DIG.	265.50	
FLUKE	8062A	MULTIMETER, DIG.	265.50	
FLUKE	80E	DEC VOLT DIV.	350.00	
FLUKE	80I-41 0	CURRENT PROBE AC/DC	259.00	
FLUKE	80K-4 0	HIGH VOLTAGE PROBE	80.00	
FLUKE	80TK	THERMOCOUPLE MODULE	635.00	
FLUKE	8120A	VOLTMETER	868.15	
FLUKE	823A	AC DC DIF VMTR	1,220.00	9/1/73
FLUKE	8300A	DIGITALVOLTMETER	2,095.00	10/1/73
FLUKE	8300A	VOLTMETER	2,701.45	2/1/75
FLUKE	8300A	DIGITALVOLTMETER	2,701.45	2/1/75
FLUKE	8300A	DIGITALVOLT	1,639.30	1 /1 /74
FLUKE	853A	DIG MULTIMETER	480.00	
FLUKE	853A	DIFFERENTIALMULTIMETER	480.15	
FLUKE	853A	MULTIMETER	431.65	
FLUKE	853A	DIFFERENTIAL MULTIMETER	240.00	
FLUKE	A0088	DIG MULTIMETER	955.45	•
FLUKE	8800A	DIGITAL MULTIMETER	955.45	
FLUKE	8800A	DIGITAL MULTIMETER	1,151.32	3/1/79
FLUKE	8800A	DIG MULTIMETER	972.69	
FLUKE	8800A	DIG MULTIMETER	9172.69	- / /
FLUKE	881 0 A	MULTIMETER	1,238.40	9/10/82
FLUKE	8810A	MULTIMETER	1,238.40	9/1/02
FLUKE	881OA	DIG MULTIMETER	1,21 8.10	10/1/84
FLUKE	881OA	DIGITAL MULTIM ETER	1,218.00	10/1/84
FLUKE	8810-A	DIG.MULTIMETER	1,100.00	10/1/84

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
FLUKE	883AB	VOLTMETER DIFFERENTIAL	1,378.70	9/1/73
FLUKE	883AB	AC/DC DIFFERENTIAL VOLTMETER	1,378.70	9/1/73
FLUKE	8 84 0A	DIG MULTIMETER	790.08	
FLUKE	8840A	DIG MULTIMETER	790.08	
FLUKE	8 84 0A	MULTIMETER	1,100.00	2/1/92
FLUKE	8842A	DIGITAL MULTIMETER	1,395.00	1/31/90
FLUKE	8842A	DIGITAL MULTIMETER	1,395.00	1/31/90
FLUKE	8842A	VOLTMETER	909.1 5	
FLUE	8842A	VOLTMETER	90 9 .15	
FLUKE	8 842 A	DIGITAL MULTIMETER	1,170.00	1/16/92
FLUKE	8842A/059	DIGITAL MULTIMETER	1,300.00	111/93
FLUKE	8 85 A	DC DIFF VOLT	1,060.00	9/1/73
FLUKE	895A	DC DIFFERENTIAL VOLTMETER	2,167.56	6/6/79
FLUKE	895A	VOLTMETER, DIFF.	4,746.53	4/30/86
FLUKE	931 B	VOLTMETER RMS	1,045.00	9/1/73
FLUKE	A90	SHUNT	255.00	
FLUKE	PM3065	OSCILLOSCOPE	1,745.00	9/1/90
FLUKE	Y8100	CURRENT PROBE	259.00	
FUJ	FKB293	KEYBOARD	99.00	11/1/87
FUJ	FRB2930	KEYBOARD	99.00	2/1/83
GATEWAY 2000	CS1024N12	DISPLAY	400.00	10/1/93
GATEWAY 2000	DESKTOP 386	COMPUTER W/KEYBOARD	1,980.00	6/1/92
GATEWAY 2000	MINI DESKTOP	COMPUTER WEYBOARD	1,469.00	10/1/93
GDD	LDS309	MODEM	450.00	5/1/84
GEIER & BLUHM	NONE	LEVEL	79.00	
GENERAL EASTERN	DPG-300	HUMIDITY GENERATOR	3,325.00	5/1/88
GENERAL ELECTRIC	10	RECEIVER	87.80	
GENERAL INSTRUMENT CORP.	D2213	ANTENNA	1,867.00	12/1/89
GENERAL RESISTANCE	102T	STD RESISTOR	275.00	
GENERAL RESISTANCE	103T	STD RESISTOR	275.00	
GENERAL RESISTANCE	104T	STD RESISTOR	750.00	
GENERAL RESISTANCE	105T	STD RESISTOR	750.00	. <i>5</i> 1.1
		. ~		

. .

14 240

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
GENERAL RESISTANCE	106T	STD RESISTOR	800.00	
GENERAL RESISTANCE	DAS-46	DIAL-A-SOURCE	875.00	
GENERAL RESISTANCE	DAS66AX	POWER SUPPLY	1,293.50	8/1/78
GENERAL RESISTANCE	DAS86	POWER SUPPLY	1,442.75	8/1/78
GENERAL RESISTANCE	DV4107	VOLTAGE DIV.	895.00	
GENERAL RESISTANCE	LRC201	VOLT COMPENSAT	250.00	
GENW	1986	SOUND CALIBRA.	855.95	
GENRAD	1986	SOUND CALIBRA.	855.95	
GENRAD	12038	POWER SUPPLY	65.00	
GENRAD	1209-B	UNIT OSCILLATOR	261.95	
GENRAD	1210C	SIG. GENERATOR	210.00	
GENRAD	1218-A	UNJT OSCILLATOR	465.95	
GENRAD	1232A	AMPLIFIER	3195.00	
GENRAD	1311A	AUDIO OSCILLA.	382.89	
GENRAD	1403D	STD, CAP.	80.00	
GENRAD	1409L	STD CAP	55.00	
GENRAD	1409-R	STD. CAPACITOR	85.00	
GENRAD	1419A	DECADE CAP.	180.00	
GENRAD	1432-B	DECADE RESISTOR	220.00	
GENW	1432M	DECADE RES	154.00	
GENRAD	1432P	DECADE RESIST	154.00	
GENW	1432P	DECADE RESISTR	156.00	
GENRAD	1432-P	DEC. RESISTOR	154.00	
GENRAD	1432X	DECADE RESIST	100.00	
GENW	1433W	DECADE RESIST	176.50	
GENRAD	1454A	DEC VOLT DIV	162.89	
GENRAD	1454A	DEC VOLT DIV	161.89	
GENW	1454A	DECADE DIVIDER	600.00	
GENRAD	1454-A	DECADE VOLTAGE DIVIDER	161.00	
GENRAD	1455BH	VOLT DIVIDER	280.00	
GENRAD	1482E	STD. INDUCR.	175.00	
GENRAD	1482K	STD.INDUCR.	145.00	. 1
GENRAD	1482N	STD. INDUCR.	160.00	_
GENRAD	1482-N	STD.INDUCTOR	110.00	
GENRAD	1482P	STD.INDUCR.	190.00	-
GENRAD	1482T	STD. INDUCR.	385.00	
GENRAD	1490F	DECADE INDUCT	586.50	833



MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
GENW	1490F	DECADE INDUCT	635.00	
GENW	1531A	STROBOTAC	279.77	
GENRAD	1615-P1	STD CAPACITOR	85.00	
GENRAD	1620AP	CAPACITANCE BRIDGE	4,222.00	12/1/76
GENRAD	1632A	INDUCT BRIDGE	1,395.00	2/1/77
GENRAD	1650A	IMP BRIDGE	450.00	
GENW	722D	CONDENSER	207.85	
GENRAD	W20MT3A	VARIAC	140.00	
GENW	W5MT3A	VARIAC	339.00	
GENW	W5MT3A	VARIAC	178.00	
GENRAD	W5MT3A	VARIAC	178.00	
GERTSCH	so1	RATIO X FORMS	300.00	
GERTSCH	1011	VOLT DIVIDER	550.00	
GERTSCH	RT-5	RATIOTRANS.	400.00	
GLOBAL	NONE	MAG TAPE STORAGE RACK	790.00	
GLOBAL COMPUTER	C-6323	PRINTER STAND	149.00	
GOLDSTAR	121 0 A	MONITOR	95.00	
GOLDSTAR	121 0 A	DISPLAY	190.00	
GREINER ELEC	LTP	TIMER	549.50	
GSY	1550	COMPUTER, PERSONAL	5,269.00	10/1/91
GSY	1550	COMPUTER, PERSONAL	5,394.00	4/1/91
GTW	386	COMPUTER, PERSONAL	1,500.00	8/1/91
GTW	386	COMPUTER, PERSONAL	1,500.00	8/1/91
GTW	386	COMPUTER, PERSONAL	2,845.00	9/ 1/91
GTW	486	COMPUTER, PERSONAL	3,920.00	8/1/93
GTW	486	COMPUTER, PERSONAL	3,645.00	
GTW	486	COMPUTER, PERSONAL	1,469.00	10/1/93
GTW	CS1024	CRT DISPLAY	400.00	10/1/93
GTW	PMV14	CRT DISPLAY	500.00	8/1/86
GTW	PMV14	CRT DISPLAY	640.00	4/1/91
GTW	P M V14	CRT DISPLAY	300.00	8/1/91
GTW	PMV14	CRT DISPLAY	300.00	
GTW	P M V14	CRT DISPLAY	400.00	•
GUILDLINE	65201	ADAPTER BOX	540.00	1/1/93
GUILDUNE	6500A	TERAOHMMETER	11,950.00	3/30/92
HAMPTON RUBBER		HOSE	195.00	8/28/95
HARPER	65000469	CYLINDER HAND TRUCK	105.00	
HARPER TRUCKING, INC.	4WHEEL UPRIGHT	DOLLY/CART	183.00	10/ 10/96
HART SCIENTIFIC	2100	CONTROLLER	1,300.00	5/1 /92
HASTINGS	LV-1X	VAC GAUGE	350.00	
		' - 3-		***

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HASTINGS	SV1	VAC GAGE	1319.70	
HASTINGS	VT-5	VACUUM GAUGE	285.00	
HASTINGS	VT-6	VACUUM GAUGE	180.00	
HDS	F3D0B081	COMPUTER W/KEYBORD	3,724.00	12/26/96
HEIR-KLINE (PRO		SOLDERING MACHINE	188.00	
CRAFT)				
HELICOIL	-834	HEUCOIL SET	23.90	
HEUCOIL	7309	HELICOIL SET	25.15	
HELICOIL	8834	HELICOIL SET	30.50	
HELICOIL	8903	HELICOIL SET	29.05	
HELICOIL	10231	HELICOIL SET	27.95	
HELICOIL	11841	HELICOIL SET	23.90	
HELICOIL	11963	HELICOIL SET	27.20	
HELICOIL	14702	HELICOIL SET	38.15	
HELICOIL	14768	HELICOIL SET	38.15	
HEUCOIL	35727	HELICOIL SET	24.40	
HEUCOIL	42437	HELICOIL SET	26.70	
HELICOIL	43236	HELICOIL SET	26.20	
HENES MFG CO	S	WATER WELDER	285.00	
HEWLETT	35	CALCULATOR	307.10	
PACKARD			 40	
HEWLETT	35	CALCULATOR	387.10	
PACKARD	COOF	POWER SUPPLY	643.50	
HEWLETT PACKARD	6205	POWER SUPPLY	043.50	
HEWLETT	10529A	LOGIC TESTER	1,220.18	8/1/82
PACKARD	, , , , , , , , , , , , , , , , , , , ,	20010 1201210	,	
HEWLETT	1116A	SCOPE CART	100.00	
PACKARD				
HEWLETT	11683A	RANGE CALIBRATOR	708.75	
PACKARD	444	DIODI AV	12,902.95	4/2/81
HEWLETT	141T	DISPLAY	12,902.90	4/2/01
PACKARD HEWLETT	200CD	WIDE RANGE OSCILLATOR	282.49	
PACKARD	20000	WIDE TO WOLL GOODLE! WOR		
HEWLETT	200CD	WIDE RANGE OSCILLATOR	2132.49	•
PACKARD				
HEWLETT	200CDR	OSCILLATOR	225.00	
PACKARO			4 000 00	40/46/72
HEWLETT	2MC	LO FREQ OSCILL	1,800.00	10/16/73
PACKARO	203A	VARIABLE PHASE FUNCTION	1,259.24	9/1/73
HEWLETT PACKARD	2007	GENERATOR,	1,200.24	5/ 1/ / 5
HEWLETT	203A	VARIABLE PHASE FUNCTION	1,259.24	9/1/73
PACKARD	,	GENERATOR		
-				

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST A	ACQ. DATE
HEWLETT	203A	GENE AUDIO SIG	1,876.05	1/1/76
PACKARD H E W W	211A	SQ WAVE GEN	313.1 1	
PACKARD	21.173	OQ WAVE GEN	010.11	
HEWLETT	21 5A	PULSE GEN	1,882.69	9/1/73
PACKARD	0.41 A	0000114700	402.64	
HEWLRT PACKARD	241 A	OSCILLATOR	492.64	
HEWLRT	2686A	DIGITAL PRINTER	2,676.65	6/1/86
PACKARD			2,010100	0/2/00
HEWLRT	31 OA	ANALYZER	2,806.65	1/1/74
PACKARD	2124	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 012 17	A (4 (Q4
HEWLETT PACKARD	312A	WAVE ANALYZER	3,912.16	4/1/81
HEWLETT	31E	CALCULATOR	42.50	
PACKARD				
HEWLRT	3300A	FUNCTION GEN	1,226.00	
PACKARD	22254	OWEED THE LIGHT	077.06	
HEWLETT PACKARD	3305A	SWEEP PLUGIN	977.25	
HEWLETT	3 3 10A	GENERATOR	589.05	
PACKARD		OLNER, (TOIL	202102	
HEWLETT	331 OA	FUNCTION GEN	589.05	
PACKARD	00101		505 (5	
H E W W	331OA	FUNC. GEN	727.65	
PACKARD HEWLETT	3312A	FUNCTION GENERATOR	1,619.75	2/1/89
PACKARD	00124	TONOTIONSENERATOR	1,017.75	41700
HEWLETT	3312A	FUNCTION GENERATOR	1,619.75	2/1/89
PACKARD				
HEWLETT	3325A	SYNTHESIZER	3,458.00	7/1/80
PACKARD HEWLEIT	33258	SYNTHESIZER, FREQUENCY	4,563.99	5/1/88
PACKARD	33230	OTNITIESIZEN, TREQUENCT	4,505.77	C/ 1/00
HEWLETT	33258	FREQUENCY SYNTHESIZER	5,284.00	9/26/88
PACKARD			. =00.0=	T 14 10 0
HEWLETT	33440A	DIGITAL PRINTER	1,738.65	5/1/88
PACKARD HEWLRT	33440A	LASER PRINTER	1,340.00	7/1/90
PACKARD	001107	LAGENTRINIER	1,540.00	11170
HEWLETT	33449A	PRINTER	2,406.00	4/17/91
PACKARD			4 407 40	0.104.100
HEWLETT	334A	ANALYZER	1,467.18	3/21/88
PACKARD HEWLETT	334A	DISTORTION ANALYZER	1,467.18	7/24/80
PACKARD	50 17 (DISTORTIONANALIZER	.,	
HEWLETT	334A	DISTORTION ANALYZER	1,467.18	7/1/80
				1.5 - 4.00

tage of

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
PACKARD				
HEWLETT	334A	DISTORTION ANALYZER	867.00	
PACKARD			00.100	
HEWLRT	339A	DISTORTION	2,484.99	11/1/82
PACKARD		MEASUREMENTSET		
HEWLETT	3400A	VOLTMETER RMS	562.70	
PACKARD HEWLETT	3400A	RMS VOLTMETER	F00 00	
PACKARD	3400A	RIVIS VOLTIVIETER	528.00	
HEWLETT	3455A	VOLTMETER	3,365.00	6/1/79
PACKARD	C 100/1		0,000.00	9,17.0
HEWLETT	3456A	DIGITALVOLTMTR	3,552.00	7/1/83
PACKARD				
HEWLETT	3457A	MULTIMETER, DIGITAL	2,646.00	5/19/87
PACKARD	0.4504	DIOITAL MUU TIMETED	0.044.40	4/4/00
HEWLETT	3458A	DIGITAL MULTIMETER	6,311.40	1/1/89
PACKARD HEWLETT	3478A	DIG MULTIMETER	1,248.00	5/20/83
PACKARD	0 7 /0/	DIG MOLTIMETER	1,240.00	3/20/65
HEWLETT	3478A	DIG MULTIMETER	1,248.00	5/20/83
PACKARD		2.52	.,	0,20,00
HEWLETT	3478A	DIG MULTIMETER .	1,248.00	5/20/83
PACKARD		·		
HEWLETT	3478A	MULTIMETER	940.27	
PACKARD	24704		007.00	
H EWLETT PACKARD	3478A	DIGITAL MULTIMETER	937.29	
HEWLETT	3478A	MULTIMETER, DIGITAL	937.29	
PACKARD	0 77 07 1	WOLTIMETER, DIGITAL	301.23	
HEWLETT	3488A	SWITCH/CONTROLLER	1,559.00	4/25/85
PACKARO		·	·	
HEWLETT	3495A	RELAY SCANNER	2,920.50	6/1/79
PACKARD	0.407.4	004414155	0.044.05	-/-//-
HEWLETT	3495A	SCANNER	3,044.25	7/24/80
PACKARD HEWLETT	3497A	DATA ACQUISITION SYSTEM	5.939.31	10/1/88
PACKARD	0 1 977	DATA ACQUISITIONS IS IEM	3,333.31	10/1/00
HEWLETT	350D	ATTENUATOR SET	126.78	
PACKARD				
HEWLETT	3500	ATTENUATOR SET	140.00	
PACKARO		A	400.00	
HEWLETT	350D	ATTENUATOR	160.00	
PACKARO H EWLETT	350D	ATTENUATOR	160.00	
PACKARD	330D	ATTENDATOR	100.00	
HEWLETT	350D	ATTENUATOR SET	165.00	
PACKARO		rir and the river		_(* f < -
-				

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLETT PACKARD	3561A	ANALYZER SPECTRUM	11,387.25	5/1/87
HEWLETT PACKARD	400E	AC VOLTMETER	287.12	
HEWLRT PACKARD	400E	AC VOLTMETER	207.12	
HEWLETT PACKARD	400E	AC VOLTMETER	287.12	
HEWLETT PACKARD	400E	AC VOLTMETER	287.12	
HEWLETT PACKARD	400E	AC VOLTMETER	327.45	
HEWLETT PACKARD	400E	AC VOLTMETER	327.45	
HEWLETT PACKARD	400E	AC VOLTMETER	327.45	
HEWLETT PACKARD	400E	AC VOLTMETER	327.45	
HEWLETT PACKARD	400E	VOLTMETER	341.55	
HEWLETT PACKARD	400E	VOLTMETER	341.55	
HEWLETT PACKARD	400E	AC VOLTMETER	341.55	
HEWLETT PACKARD	400E	AC VOLTMETER	341.55	
HEWLETT PACKARD	400FL	VOLTMETER	336.60	
HEWLETT PACKARD	400FL	VOLTMETER	336.60	
HEWLETT PACKARD	411A	RFMILLIVOLTMETER	450.00	
HEWLETT PACKARD	415 E	SWR METER	2,166.00	5/2/89
HEWLETT PACKARD	41CV	CALCULATOR	973.25	
HEWLRT PACKARD	41CV	CALCULATOR, ELECTRONIC	175.00	
HEWLETT PACKARD	425A	DC VOLT AMMETER	512.40	
HEWLETT PACKARD	428B	DC MILLIAMMETER	606.65	
HEWLETT PACKARD	431B	POWER METER	450.00	
HEWLETT PACKARD	431C	POWER METER	475.00	
HEWLETT	4329A	OHMMETER	752.85	Broks No

MANUFACTURER	MOOEL	DESCRIPTION	ACQ. COST	ACQ. DATE
DAOKADD				
PACKARD	4200 A		4 000 50	04.70
HEWLETT PACKARO	4329A	MEGOHMMETER	1,633.58	6/1 /79
HEWLETT	432A	POWER METER	495.00	
PACKARD	402A	POWER WETER	495.00	
HEWLETT	436A	RF POWER METER	3,213.00	4/30/86
PACKARD		THE TOWER WEIGHT	0,210.00	1,00,00
HEWLETT	4491A	MULTIPLEXER, ARMATURE	425.25	
PACKARD		DELA		
HEWLETT	461A	AMPLIFIER	352.05	
PACKARD				
HEWLETT	461A	AMPLIFIER	352.05	
PACKARO		444DLIEIED		
HEWLETT	465A	AMPLIFIER	191.54	
PACKARD HEWLETT	467A		240.00	
PACKARD	407 A	POWER AMPLIFIER	24a.00	
HEWLETT	467A	RF POWER AMP	580.35	
PACKARD	40771	THE TOWERT AND	000.00	
HEWLETT	495A	MICROWAVE AMPLIFIER.	2,916.81	4/1/81
PACKARD			·	
HEWLETT	5004A	ANALYZER	1,056.00	
PACKARD				
HEWLETT	5005B	SIGNATURE MULTIMETER	3,633.75	7/11/84
PACKARD HEWLETT	5245L	COLINTED	0.004.15	0/04/70
PACKARD	5245L	COUNTER	2,984.15	9/21/73
HEWLETT	5245L	COUNTER	2,984.15	1/7/74
PACKARD	02 102	COCITEIC	2,004.10	14.414
HEWLEIT	5245L	COUNTER	2,961.65	9/21/73
PACKARD			•	
HEWLETT	5245L	COUNTER	2,984.1 5	9/21/73
PACKARD				
HEWLETT	5245L	FREQ COUNTER	2,697.75	2/20/75
PACKARD	50451	EDEO COUNTED	4.007.50	0/4/70
H EWLETT PACKARD	5245L	FREQ. COUNTER	4,207.50	9/1/76
HEWLETT	5245L	COUNTER	2,961.65	4/2/81
PACKARD	OL TOL	COCITEIX	2,001100	7/2/01
HEWLETT	5245L	COUNTER	2,980.70	4/2/81
PACKARD				
HEWLETT	5253B	FREQ CONVERT	502.42	
PACKARD				
HEWLETT	5253B	FREQUENCY CONVERTER	502.42	
PACKARD	E052D	EDEOLIENCY CONVEDTED	400.00	
H EWLETT PACKARD	5253B	FREQUENCY CONVERTER		
LACKAND				

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLETT	5254A	FREQ.CONVERTER	2,200.00	5/1/81
PACKARD HEWLETT	5254B	FREQ CONVERTER	827.40	
PACKARD	5004 4		000.00	
H E W W PACKARD	5261A	VIDEO AMP	326.83	
HEWLETT PACKARD	5261A	VIDEO AMP.	325.00	
HEWLETT	5262A	TIME INT UNIT	250.00	
PACKARD H E W W	5262A	TIME INT. UNIT	375.00	
PACKARD	JEULA	THE HAT. OINT	373.00	
HEWLETT PACKARD	5265A	DIG. VOLTMETER	825.00	
HEWLRT PACKARD	5300A	COUNTER SYSTEM	391.05	
HEWW	5300A	COUNTER SYSTEM	391.05	
PACKARD H E W W	5300B	MEASURING SYSTEM	792.00	
PACKARD	33332	W.E., 1881 (118 8 1 8 1 E 1 1	102.00	
H EWLETT PACKARD	5302A	COUNTER PLUGON	272.25	
HEWLETT	5302A	COUNTER PLUGON	272.25	
PACKARD HEWLETT	5302A	UNIVERSALCOUNTER	700.00	
PACKARD		MODULE		
HEWLETT	5312A	INTERFACE	350.00	
PACKARD				
HEWLETT	5328A	COUNTER	1,633.50	7/24/80
PACKARD	500 44	EDEC COUNTED	4.440.00	10/1/01
HEWLETT PACKARD	5334A	FREQ. COUNTER	4,142.00	10/1/84
H E W W	5334A	COUNTER, FREQUENCY	4,568.70	9/16/87
PACKARD	300471	COUNTER, I REQUERO	4,500.70	3/10/07
HEWLETT	5512A	COUNTER	982.45	
PACKARD				
HEWLETT	59401A	BUS SYSTEM ANALYZER	2,500.00	9/1/76
PACKARD				
HEWLETT	59401A	BUS SYSTEM ANALYZER	3,700.00 .	5/1/85
PACKARD H EWLETT	59501A	POWER SUPPLY	544.50	
PACKARD				
HEWLETT PACKARD	606B	SIGNAL GENERATOR	1,562.16	4/1/81
HEWLETT	608C	VHF SIG GEN	1,220.00	9/1/73
PACKARD HEWLETT	608D	VHF SIGNAL GENERATOR	1,300.00	9/1/73
			•	• •

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST ACQ. DATE
PACKARD			
HEWLETT	6102A	POWER SUPPLY	368.00
PACKARD	arob (1 GWER GOLLET	300.00
HEWLETT	61.02A	POWER SUPPLY	368.00
PACKARD			
HEWLETT	6102A	POWER SUPPLY	362.00
PACKARD	~ 004	5 14/ 5 01/5	
HEWLEIT	6102A	PWR SUP.	362.00
PACKARD HEWLETT -	6102A	PWR SUPPLY	- 362 .15
PACKARD	01025	I WK SOFFLI	
HEWLETT	61.02A	PWR SUPPLY	362.15
PACKARD			
HEWLETT	6102A	POWER SUPPLY	311.85
PACKARD			
HEWLETT	6102A	POWER SUPPLY	35 1.45
PACKARD			4.480.00
HEWLETT	6 114A	POWER SUPPLY	1,152.00 8/1/82
PACKARD HEWLETT	61.2A	LIHE SICNAL CENEDATOR	1,212.16 8/1/82
PACKARD	OL ZA	UHF SIGNAL GENERATOR	1,212.16 8/1/82
HEWLETT	61.68	UHF SIGNAL GENERATOR	1,950.00 9/1/73
PACKARD	ш00	O'II GIGINAL GLIVLIOTTOIT	1,550.00 5,1,70
HEWLETT	6 188	SHF SIGNAL GENERATOR	2,268.60 4/1/81
PACKARD			•
HEWLETT	6205B	POWER SUPPLY	514.80
PACKARD			
HEWLETT	62058	POWER SUPPLY	514.80
PACKARD	60360	DWD CLIDDLY	F20, 00
H EWLETT PACKARO	62368	PWR SUPPLY	528.00
HEWLETT	62378	POWER SUPPLY	715.00
PACKARO	02310	1 GWER GOLLET	7 10100
HEWLETT	6255A	DC PWR. SUP.	641.50
PACKARD			
HEWLETT	6255A	POWER SUPPLY	650.00
PACKARD			
HEWLETT	6255A	POWER SUPPLY	641.50
PACKARD	6063	CHE CICNIAL CENEDATOR	3,416.81 4/2/81
HEWLETT PACKARD	626A	SHF SIGNAL GENERATOR	3,410.01 4/2/01
HEWLETT	628A	SHF SIGNAL GENERAT-OR	3,416.81 4/1/81
PACKARD	JEUN	OH OIOIVAL GLIVLIVATION	J, 1, 01
HEWLETT	6450A	POWER SUPPLY	1,610.00 10/1/73
PACKARO			
HEWLETT	6459A	POWER SUPPLY	2,618.55 4/1/81
PACKARO			

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLETT	6459A	POWER SUPPLY	2.61 8.55	4/1/81
PACKARD HEWLETT	651A	TEST OSCILLAT.	590.00	
PACKARD HEWLETT	651A	OSCILLATOR	613.85	
PACKARD HEWLETT PACKARD	651A	TESTOSCIUTOR	599.00	
HEWLETT PACKARD	652A	TEST OSCILLATOR	999.90	
HEWLETT PACKARD	7046A	X-Y RECORDER	3,356.00	9/1/76
HEWLETT PACKARD	721A	POWER SUPPLY	149.60	
HEWLETT PACKARD	721A	POWER SUPPLY	147.40	
HEWLOT PACKARD	721A	POWER SUPPLY	147.10	
HEWLEIT PACKARD	721A	POWER SUPPLY	147.75	
HEWLETT PACKARD	721A	POWER SUPPLY	147.40	
HEWLETT PACKARD	723A	POWER SUPPLY	235.95	
HEWLOT PACKARD	723A	POWER SUPPLY	233.45	
H EWLETT PACKARD	745A	VOLTAGE CALIB	4,520.98	10/1/73
H EWLETT PACKARD	7 4 5A	AC CALIBRATOR	8,177.40	9/1/76
HEWLETT PACKARD	745A	CALIBRATOR	4,521. 00	2/1/86
HEWLETT PACKARD	746A	VOLTAGE AMP	2,029.50	2/1/75
H EWLETT PACKARD	746A	HIGH VOLTAGE AMPLIFIER	3,265.00	9/1/77
HEWLETT PACKARD	7 47 0A	PLOTTER	799.00	3/1/85
HEWLETT PACKARD	7470A	GRAPH. PLOTTER	787.00	3/1 /85
HEWLETT PACKARO	7550A	PLOTTER	2,613.00	8/1/88
HEWLETT PACKARD	75C	CALCULATOR	750.00	
HEWLETT PACKARO	801 1A	PULSE GENERATOR	792.00	
HEWLETT	8011A	PULSE GEN.	519.75	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE		
PACKARD						
HEWLETT PACKARO	8011A	PULSE GENERATOR	1,085.63	6/1/81		
HEWLETT	82161A	RECORDER	467.50			
PACKARD HEWLETT PACKARD	82162A	PRINTER	420.75			
HEWLETT	821 69A	INTERFACE	264.65			
PACKARD HEWLETT PACKARD	8402A	PWR. MTR CALIB	475.00			
HEWLETT PACKARD	8402B	CALIBRATOR	478.03			
HEWLETT	8443A	TRACKING	3,886.00	8/15/74		
PACKARD HEWLETT	8444A	GENERATOR/COUNTER TRACKING GENERATOR	3,341.25	4/1/81		
PACKARD H EWLETT	8445A	PRESELECTOR	528.00			
PACKARD H EWLETT	8481H	POWER SENSOR	728.59			ŧ
PACKARD HEWLETT	8485A	POWER SENSOR	850.50			
PACKARD HEWLETT	85528	IF SECTION	4,325.00			
PACKARD HEWLETT	8553B	RF SECTION	3,540.50	9/1 0182		
PACKARD H E W W	8555A	RF SECTION	8,600.00	·		
PACKARD			•	470 (04		
H EWLETT PACKARD	8614A	SIGNAL GENERATOR	1,661.81	4/2/81		
H E W W PACKARD	8616A	SIG. GENERATOR	2,100.00	4/2/81		
HEWLETT PACKARD	940A	FREQ DOUBLER SET	1,511.81	4i1/ 81		
HEWLETT	C2001A	LASER PRINTER	2,086.00	2/1/94		
PACKARD HEWLETT	K02-434A	CALIBRATOR	1,000.00	4/1/81		
PACKARD H EWLETT-	11667B	RF POWER SPLITTER	1,011. 00			
PACKARD HEWLETT-	11715A	AM/FM TEST SOURCE	2,749.00	2/5 /93	***	
PACKARD HEWLETT-	11722A	MODULE SENSOR	2,130.00	6/1/91		
PACKARD HEWLETT-	11812A	VERIFICATION KIT	1,993.00	5/1 /91		ŧ
PACKARD	i i e i ter	VERMIO/MIOMMI	,,555,66	-, ., -	r	(

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
HEWLEIT- PACKARD	3314A	FUNCTION GENERATOR	4,915.00	311/90
HEWLETT- PACKARD	3 44 01A	DIGITAL MULTIMETER	995.00	1/1/93
HEWLETT- PACKARD	3458A	DIGITAL MULTIMETER	6,782.40	1/1/89
HEWLETT- PACKARD	3498A	EXTENDER, OPTION HOLDER	2,508.00	8/1/91
HEWLETT- PACKARD	35731A	DISPLAY	217.00	4/1/93
HEWLEIT- PACKARD	5245L	COUNTER	3,000.00	11/19/75
HEWLETT- PACKARD	5245L	COUNTER	2,480.00	5/18/77
HEWLETT- PACKARD	5245L	COUNTER	2,480.00	6/1/70
HEWLETT- PACKARD	5254A	FREQUENCY CONVERTER	925.00	
HEWLETT- PACKARD	5254C	FREQUENCY CONVERTER	925.00	
HEWLEIT- PACKARO	62378	POWER SUPPLY	930.00	0/4100
HEWLETT- PACKARD	8116A	FUNCTION GENERATOR	4,036.47 34 6.00	2/1/90
HEWLEIT- PACKARD HEWLETT-	8474C 8474C	MICROWAVE DETECTOR MICROWAVE DETECTOR	346.00	
PACKARD HEWLETT-	8481D	POWER SENSOR	1,029.00	311193
PACKARD HEWLETT-	84904K	STEP ATTENUATOR	1,900.00	
PACKARO HEWLETT-	84906K	ATTENUATOR	1,795.00	
PACKARD HEWLEIT-	8552B	IF SECTION PLUG IN	2,970.00	11/1/78
PACKARD HEWLETT-	87300C	DIRECTIONAL COUPLER	976.00	
PACKARO HEWLEIT-	87300C	DIRECTIONAL COUPLER	976.00	
PACKARD HEWLEIT-	9133∨	DISK DRIVE	2,158.00	10/1/84
PACKARO HEWLETT-	98568A	COMPUTER EXPANDER	1,444.00	4/1/93
PACKARD HEWLRT-		LOGIC PROBE	297.00	
PACKARD HICKOK	539B	TUBE TESTER	410.00	· 4

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
ни	3001	COMPUTER, PERSONAL	1,053.00	5/1193
HITACHI	V1085	OSCILLOSCOPE	1,646.00	1/1193
HITACHI	V-1150	OSCILLOSCOPE	2,141.00	3/9/92
HITACHI	V-209	OSCILLOSCOPE	708.25	
HITACHI	VC6025	OSCILLOSCOPE	1,976.00	2/1/92
HI-TEC	RT101	KEYBOARD	85.00	
HI-TEK	RT-101	KEYBOARD	90.00	
HITEK	RT-101	KEYBOARD	90.00	
HI-TEK	AT-101	KEYBOARD	₹90.0C	
HOLT	HCS1	CURRENT SHUNT	884.00	
HONEYWELL	320	XY RECORDER	1,353.15	9/1 /73
HONEYWELL	906	OSCILLOGRAPH	2,942.00	2/20/75
HONEYWELL	1100	STD. RESISTOR	225.00	
HONEYWELL	1166	SHUNT	70.00	
HOUSTON	DMP-61	PLOTTER GRAPHICS	3,264.00	9/1/89
HP	3400A	RMS VOLTMETER	320.00	
HP	3400A	VOLTMETER	320.00	
HP	355C	ATTENTUATOR	160.00	8/7 /95
HP	355C	ATTENUATOR	160.00	8/7/95
HP	355D	ATTENUATOR	160.00	8/7/95
HP	355D	ATTENUATOR	160.00	8/ 7/95
HP	35731A	DISPLAY	796.00	5/1/86
HP	35741A	DISPLAY	1,252.00	1/1/88
HP	35741A	DISPLAY	800.00	12/14/87
HP	35751 M	TERMINAL W/KEYBOARD	796.00	6/1/86
HP	7770	DUAL DIRECTIONAL COUPLER	300.00	8/7/95
HP	777D	DUAL DIRECTIONAL COUPLER	300.00	8/7/95
HP	7945A	DISK DRIVE	4,560.00	4/1/86
HP	7945A	DISK DRIVE	4,560.00	3/26/87
HP	91 22D	DISK DRIVE	904.00	5/1 /85
HP	9122D	DISK DRIVE	1,050.00	9/25/86
HP	9123D	DISK DRIVE	461.00	6/1/86
HP	98561X	COMPUTER W/KEYBOARD	13,428.00	5/2/86
HP	98562A	COMPUTER EXPANDER	2,067.00	10/ 8/96
HP	98562X	COMPUTER W/KEYBOARD	10,556.00	1/1/88
HP	98562Y	COMPUTER W/KEYBOARD	16,644.00	10/8/96
HP	98568A	COMPUTER MPANDER	1,793.00	1/1/88
HP	98568A	COMPUTER MPANDER	1,444.00	5/21/86
HP	98570A	COMPUTER EXPANDER	1,865.00	12/1/89
HP	98785A	DISPLAY	6,201. 00	10/1/88

HP VL24/50E COMPUTER 2	,000.08	4/18/95
HPC 300 COMPUTER, DESKTOP 2,	856.00	7/1/86
HPC 2686 PRINTER, LASER 2	,765.00	4/1/87
HPC 2686 PRINTER, LASER 2	,676.00	6/1/87
HPC 2686 PRINTER, LASER 2	,341.00	2/1/85
HPC 91.22 DISK-DUAL FLOPPY	955.00	4/1/85
HPC 9816 COMPUTER, DESKTOP 3,	854.00	5/1/85
HPC 33440 PRINTER, LASER 1,	739.00	1 011/88
HPC 35721 CRT DISPLAY	796.00	5/1/86
HPC 82906 PRIMER, CHARACTER	715.00	8/1/84
HPC 82906 PRIMER, CHARACTER	572.00	3/1/85
HPC 2686A PRINTER, LASER 2	,676.00	11/1/86
HPC 2686D PRINTER, LASER 3	,01100	2/1/88
HPC 33440A PRINTER, LASER 5	,520.00	1/1/89
HPC 85A COMPUTER, PERSONAL 2	,907.00	5/1/87
HPC 9122D DISK-DUAL FLOPPY	912.00	3/1/85
HPC 9122D DISK-DUAL FLOPPY	796.00	5/1/86
HPC 9816S COMPUTER. DESKTOP 3	, 809 . 5	1 011/84
HPC 9830A COMPUTER, DESKTOP 11	,833.50	1/1/79
HPC 9830A PRINTER 8	251.60	
HPC 9830A CALCULATOR	102.00	
HPC 9835A COMPUTER, DESKTOP 9	,553.00	1/1/82
HPC 98730A PROCESSOR 1	,700.00	2/1/93
HPC 9876A PRIMER, THERMAL 3	,239.00	10/1/81
HPC 9876A PRINTER, THERMAL 4	,740.00	4/1/84
HPC C2001A PRINTER, LASER 1	,342.00	6/1/93
HYDOR THERME 460 OVEN	125.00	
IBM 31.92 COMPUTER, MICRO	747.00	8/1/86
IBM 3 192 COMPUTER, MICRO	747.00	8/1/86
IBM 4201 PRINTER, CHARACTER	346.00	4/1/89
IBM 5151 CRT DISPLAY	179.00	8/1/86
IBM 5151 CRT DISPLAY	242.00	10/1/83
IBM 5151 CRT DISPLAY	192.00	7/1/84
IBM 5151 CRT DISPLAY	187.00	12/1/85
1BM 5151 DISPLAY, COMPUTER	192.00	4/1/91
IBM 5151 DISPLAY	242.00	1/1/84
IBM 5151 CRT DISPLAY	242.00	12/1/83
IBM 5151 CRT DISPLAY	260.00	5/1/ 85
IBM 5151 CRT DISPLAY	494.00	3/1/85
IBM 51.51 PERSONAL COMPUTER DISPLAY	240.00	5/1/84

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
IBM	5151	CRT DISPLAY	240.00	3/1/84
IBM	5151	CRT DISPLAY	250.00	8/1/92
IBM	5151	CRT DISPLAY	244.00	6/1/84
IBM	5151	CRT DISPLAY	345.00	10/1/83
IBM	5151	CRT DISPLAY	192.00	12/1/84
IBM	5151	CRT DISPLAY	187.00	11/1/85
IBM	5151	CRT DISPLAY	187.00	2/1/86
IBM	5151	CRT DISPLAY	220.00	7/1/87
IBM	5151	CRT DISPLAY	187.00	2/1/86
IBM	5151	CRT DISPLAY	187.00	2/1/86
IBM	5151	CRT DISPLAY	220.00	7/1/87
IBM	5152	PRINTER, CHARACTER	412.00	9/1192
IBM	5153	CRT DISPLAY	476.00	3/1 /84
IBM	5153	CRT DISPLAY	400.00	1/1/84
IBM	51 5 3	CRT DISPLAY	462.00	8/1/85
IBM	5153	CRT DISPLAY	544.00	11/1/83
IBM	5153	DISPLAY	476.00	6/1/91
IBM	5153	CRT DISPLAY	476.00	4/1/85
IBM	5153	DISPLAY	476.00	3/1/85
IBM	5154	CRT DISPLAY	1,629.00	
IBM	51 54	CRT DISPLAY	552.00	5/1/86
IBM	51 60	COMPUTER, PERSONAL	4,634.00	
IBM	5160	COMPUTER, PERSONAL	4,255.00	10/1/83
IBM	5160	COMPUTER, PERSONAL	4,645.00	3/1/ 84
IBM	5160	COMPUTER, PERSONAL	3,460.00	5/ 1/85
IBM	5160	COMPUTER, PERSONAL	2,906.00	3/1/85
IBM	5160	COMPUTER, PERSONAL	3,339.00	10/1/84
IBM	5160	COMPUTER, PERSONAL	4,092.00	10/1/84
IBM	5161	P.C. EXPANDER	3,560.00	
IBM	5170	COMPUTER, PERSONAL	4,904.00	10/1/85
IBM	5170	COMPUTER, PERSONAL	4,764.00	3/1/85
IBM	5170	COMPUTER, PERSONAL	3,636.00	10/1/86
IBM	5170	COMPUTER, PERSONAL	4,153.00	7/1/85
IBM	5170	COMPUTER, PERSONAL	4,629.00	
IBM	8512	CRT DISPLAY	375.00	
IBM	8570	COMPUTER	3,261.00	2/1/90
IBM ,	1391401	KEYBOARD	85.00	
IBM	5154001	CRT DISPLAY	594.00	
IBM	3174-51R	COMPUTER CONTROLLER	3,540.00	
IBM	3192KB	KEYBOARD	200.00	• •
IBM	31 92KB	KEYBOARD	200.00	8/1/84

IBM
IBM
IBM
ICK TPR206 SIGNAL CONDITIONER 250.00 9/1 93 IDEAL AEROSMIM 1406R TEST TABLE 235.00 IDEAL AEROSMITH 18-53-4 TACH. TESTER 8,694.00 10/1/84 IEM, INC 5365 DISK DRIVE 6,750.00 3/1/90 IEM, INC. H5HP300H DISK DRIVE 4,496.00 12/1/89 IMPERIAL 447F FI APING TOOL 283.00 EASTMAN INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1196 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS INEG RAM ADAPTER 149.00 INNOVENTIONS RAM CHECK INC INSTRULAB 4221-B-8 DIGITAL THERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS
IDEAL AEROSMIM 1406R TEST TABLE 235.00 IDEAL AEROSMITH 18-53-4 TACH. TESTER 8,694.00 10/1/84 IEM, INC 5365 DISK DRIVE 6,750.00 3/1/90 IEM, INC. H5HP300H DISK DRIVE 4,496.00 12/1/89 IMPERIAL EASTMAN INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1/96 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS RAM ADAPTER 169.00 INNOVENTIONS RAM TESTER W/ADAPTERS 169.00 INNOVENTIONS RAM TESTER W/ADAPTERS 169.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS RAM TESTER 550.00 INTERNATIONAL 3192 COMPUTER TERMINAL 747.00 INTERNATIONAL 3192 COMPUTER TERMINAL 747.00 EASTMACHINES INTERNATIONAL 1390702 KEYBOARD 200.00 4/22/91 INTECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 INTECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3106F TEMP. CONTROL 951.00
IDEAL AEROSMITH 18-53-4 TACH. TESTER 8,694.00 10/1/84 IEM, INC 5365 DISK DRIVE 6,750.00 3/1/90 IEM, INC H5HP300H DISK DRIVE 4,496.00 12/1/89 IMPERIAL 447F F1 APING TOOL 283.00 EASTMAN INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1196 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS I MEG RAM ADAPTER 149.00 INNOVENTIONS RAM SPEED VERIFIER 169.00 INNOVENTIONS INNOVENTIONS INNOVENTIONS INNOVENTIONS INSTRULAB 4221-8-8 DIGITAL THERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS INTERNATIONAL BUSINES
IEM, INC.
IMPERIAL EASTMAN INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1196 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS RAM ADAPTER 149.00 INNOVENTIONS RAM SPEED VERIFIER 169.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS RAM CHECK II INSTRULAB 4221-B-8 DIGITAL THERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL 1390702 KEYBOARD 200.00 4/22/91 IO TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3706F TEMP. CONTROL 951.00
EASTMAN INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1196 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS 1 MEG RAM ADAPTER 149.00 INNOVENTIONS RAM SPEED VERIFIER 169.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS RAM CHECK SIM CHECK 895.00 INSTRULAB 4221-B-8 DIGITAL THERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTEL SENSORS 900P100D-4- PRT 150.00 INC BUSINESS MACHINES INTECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3706F TEMP. CONTROL 951.00
INFRARED IND. IR463 BLACK BODY 4,595.00 6/1/85 INMAC B203-1 POWER SUPPLY 200.00 10/1196 INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94 INNOVENTIONS 1 MEG RAM ADAPTER 149.00 INNOVENTIONS RAM SPEED VERIFIER 169.00 INNOVENTIONS RAM TESTER 550.00 INNOVENTIONS INC II INSTRULAB 4221-B-8 DIGITAL THERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES INTERNATIONAL BUSINESS MACHINES 1390702 KEYBOARD 200.00 EVENT 150.00 2/25/94 EVENT 150.00 EVENT 2-1 EVENT 150.00 EVEN 2-1 EVEN EV
INMAC
INNOVATIONS SIMCHECK RAM TESTER W/ADAPTERS 1,405.00 2/25/94
INNOVENTIONS
INNOVENTIONS
INNOVENTIONS
INNOVENTIONS RAM CHECK SIM CHECK S
INC II INSTRULAB 4221-8-8 DIGITALTHERMOMETER 4,080.25 10/1/88 INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL BUSINESS MACHINES 1390702 KEYBOARD 200.00 BUSINESS MACHINES 900P100D-4-2-1 PRT 150.00 INT'L SENSORS 900P100D-4-2-1 PRT 150.00 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
INSTRULAB
INTELLICOM TPAIR 206 HUB INTERFACE 239.00 3/1/94 INTERNATIONAL 3192 COMPUTER TERMINAL 747.00 BUSINESS MACHINES INTERNATIONAL 1390702 KEYBOARD 200.00 BUSINESS MACHINES INT'L SENSORS 900P100D-4- PRT 150.00 2-1 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
INTERNATIONAL 3192 COMPUTER TERMINAL 747.00
BUSINESS MACHINES INTERNATIONAL 1390702 KEYBOARD 200.00 BUSINESS MACHINES INT'L SENSORS 900P100D-4- PRT 150.00 2-1 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
MACHINES INTERNATIONAL BUSINESS 1390702 KEYBOARD 200.00 MACHINES INT'L SENSORS 900P100D-4- 2-1 PRT 150.00 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
BUSINESS MACHINES INT'L SENSORS 900P100D-4- PRT 150.00 2-1 IO TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
MACHINES INT'L SENSORS 900P100D-4- PRT 150.00 2-1 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
INT'L SENSORS 900P100D-4- PRT 150.00 2-1 10 TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
2-1 IO TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
IO TECH 488 ANALYZER, DIGITAL BUS 1,795.00 4/22/91 IRCON 3T06F TEMP. CONTROL 951.00
IRCON 3T06F TEMP. CONTROL 951.00
IRWIN FINGER BRAKE 268,00
ITL 640 TERMINAL, GRAPHIC 3,854.00 1/1/90
IWATSU DS-6121A OSCILLOSCOPE, DIGITAL 4,479.24 9/1/87
IWATSU \$\$-571@ OSCILLOSCOPE 1,398.99 9/1/87
IWATSU SS-571@ OSCILLOSCOPE 1,398.99 9/1/87
IWATSU SS-571CD OSCILLSCOPE 1,398.99 9/1/87
IWATSU SS-571CD OSCILLOSCOPE 1,398.99 9/1 87
IWATSU SS-5710D OSCILLOSCOPE 1,398.99 9/1/87
IWATSU \$\$-571CD OSCILLOSCOPE 1,398.99 9/1187
IWATSU SS-5711D OSCILLOSCOPE 1,749.62 9/1/87
IWATSU SS-5711D OSCILLOSCOPE 1,749.62 9/1/87
IWATSU SS-5711D OSCILLOSCOE 1,749.62 9/1/87
IWATSU SS-5711D OSCILLOSCOPE 1,749.62 9/1/87

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST ACQ. D.	ATE
IWATSU	ss-5711D	OSCILLOSCO	1,749.62 9/1/8	7
IWATSU	ss-5711D	OSCILLOSCOPE	1,749.62 9/1/8	
IWATSU	SS6122	OSCILLOSCOPE	1,72100 4/1/8	
IWATSU	SS-6122	OSCILLOSCOPE	1,721.00 4/1/8	
JARRETT INST.	B-11	TRIPLE POINT	658.00	•
JARRETT INST.	B-13	TRIPLE POINT	658.00	
JCWS	286	COMPUTER, PERSONAL	71.0.00 7/1/8	4
JCWS	286	COMPUTER, PERSONAL	560.00 8/1/8	
JCWS	286	COMPUTER, PERSONAL	. 568.00 5/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 7/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 7/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 5/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 9/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 7/1/8	
JCWS	286	COMPUTER, PERSONAL	560.00 12/1/8	
JCWS	286-16	COMPUTER	71.0.00 10/1/8	
JDR	AT	COMPUTER, PERSONAL	3,000.00 2/1/9	
JEBCO	NONE	CABINET	50.00	1
JEBCO	NONE	CABINET	50.00	
JEBCO	NONE	CABINET	50.00	
JENSONTOOLS	1B301	COAX TERMINATION KIT	127.00	
JVC	GD-	DISPLAY	2,550.00 12/26/	06
300	H8121SHW	DISPLAT	2,330.00 12/20/	30
K&E	11012101111	LEORY SET	87.28	
KD	18	STAKING TOOL	133.00	
KAMONIC	EP3435	KEYBOARD	100.00	
KAYE	K 140-4	ICE POINT REF	895.00	
INSTRUMENTS				
KAYE	K140-4	ICE POINT REF	515.00	
INSTRUMENTS				
KEITHLEY	130	MULTIMETER	104.52	
KEITHLEY	130	MULTIMETER	104.52	
KEITHLEY	130	DIG MULTIMETER	124.00	
KEITHLEY	177	MULTIMETER	584.00	
KEITHLEY	177	DIG. MULTIMETE	650.00	
KEITHLEY	192	MULTIMETER	1,195.00 9/1of	
KEITHLEY	199	DIGITAL MULTIMETER	1,392.00 12/1/	
KEITHLEY	199	DIGITAL MULTIMETER	1,398.00 1/1/9	
KEITHLEY	220	SOURCE, CURRENT	3,067.00 4/1/	
KEITHLEY	220	CURRENT SOURCE	3,067.00 9/1/8	
KEITHLEY	220	CURRENT SOURCE	3,067.20 2/1/8	7
KEITHLEY	260	NANOVOLT STD.	498.82	-\$44
				: • ,

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DAVE
KEITHLEY	260	NANOVOLT SORCE	502.60	
KEITHLEY	261	CURRENT SOURCE	628.89	
KEITHLEY	5155	HI MEG RES STD	132.50	
KEITHLEY	5155	HI MEG RES STD	132.50	
KEITHLEY	5155	HI MEG RES STR	132.50	
KEITHLEY	5155	HI MEG RES STD	132.50	
KEITHLEY	5155	MEGOHM STD	525.00	
KEITHLEY	5155	MEGOHM STD	525.00	
KEITHLEY	35715	HI MEG RES STD	132.50	
KEITHLEY	35716	HI MEG RES STD	132.50	
KEITHLEY	130A	DIG MULTIMETER	113.90	
KEITHLEY	130A	DIG MULTIMETER	113.90	
KEITHLEY	177/1788	DIGITAL MULTIMETER	745.00	
KEITHLEY	195A	DIG MULTIMETER	1,315.20	2/1/85
KEITHLEY INSTRUMENTS	261	PICOAMPERE SOURCE	498.82	
KEPCO	ATE15-15M	POWER SUPPLY	1,549.52	3/1/89
KEPCO	ATE36-8M	POWER SUPPLY	1,549.00	3/1/89
KEPCO	ATE36-8M	POWER SUPPLY	1,549.00	3/1/89
KEPCO	JQE 55-2M	POWER SUPPLY	250.00	4/1 1/96
KEPCO	KM251	POWER SUPPLY	604.16	
KEPCO	SC-18-1M	REGULATED POWER SUPPLY	307.08	
KEYTRONIC	E03435	KEYBOARD	85.00	
KEYTRONIC	E03435	KEYBOARD	85.00	
KINEMETRICS	A-468MS	ANTENNA	1,638.00	3/2/92
KINETIC SYSTEM	2210-11	VIBRATION FREE PLATFORM	975.00	
KISTLER	566	ACCEL AMP	460.00	
KISTLER	3038	ACCELEROMETER	585.00	
KISTLER	303T	ACCEL, ANG PR	750.00	
KISTLER	303T	ACCELEROMETER	750.00	
KISTLER	808K2	CAL. STD.	500.00	
KROHN HITE	3103	FILTER	651.37	
KROHN HITE	3343	BND PASS FILTR	2,337.19	9/1/82
KROHN HITE	5600	FUNCTION GEN.	483.1 5	
KROHN HITE	5600	GENERATOR	703.65	
KROHN HITE	5600	FUNCTION GEN.	695.00	
KROHN HITE	6500	PHASEMETER	2,000.00	9/1/76
KROHN HITE	6500	PHASEMETER	1,935.15	, 3/1/76 ,
KROHN-HITE	4200	OSCILLATOR	600.00	
KYP	1254G	CRT DISPLAY	300.00	10/1/86
KYP	PC10	COMPUTER, PERSONAL	1,542.00	9/1/86

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
L&N	4360	SHUNT	432.50	
L&N	4363	SHUNT	85.00	
L&N	4959	CONDUCTIVE BR	1,067.80	3/1/80
L & N	7421	PH METER	988.00	
L&N	8163	THERMOMETER	1,000.00	10/16/73
L&N	4025B	STD. RESISTOR	150.00	
L&N	4025B	STD RESISTER	70.00	
L&N	4025B	STD RESISTOR	150.00	
L&N	4030B	STD. RESISTOR	52.00	
L&N	4035B	STD. RESISTOR	[™] 52.00	
L&N	40358	STD. RESISTOR	150.00	
L&N	4040B	STD. RESISTOR	57.00	
L&N	4045B	STD. RESIST.	75.00	
L & N	40508	STD. RESISTOR	80.00	
L&N	42218	STD. RESISTOR	150.00	
L&N	4222B	STD. RESISTOR	150.00	
LR	1112HP	FLEX GRINDER	60.00	
LR	HEAVY DUTY	PREC. CLEANER	160.00	
L&N	40458	STD RESISTOR	150.00	
LAB-LINE	2124	THERMO FLASK	150.00	8/3/95
LAMBDA	LH124FM	POWER SUPPLY	179.00	. ,
LAMBDA	LH124FM	POWER SUPPLY	179.00	
LAMBDA	LH124FM	POWER SUPPLY	179.00	
LAMBDA	LH124FM	POWER SUPPLY	180.22	
LAMINAR FLOW		CLEAN BENCH	1,172.00	8/11/75,
LARC	200 FT	CABLE	300.00	·
LARC	200 FT	CABLE	300.00	8/28/95
LARC	200 FT	CABLE	300.00	8/28/95
LARC	200 FT	CABLE	300.00	8/28/95
LARC	200 FT	CABLE	300.00	8/28 /9 5
LARC	200 FT	CABLE	300.00	8/28/95
LARC	200 FT	CABLE	300.00	8/28/95
LASER PRECISION	CTX-530	LIGHT CHOPPER	700.00	
LASER PRECISION	RKP360	PROBE	700.00	
LASER PRECISION	RL3610	POWERMETER	1,000.00	6/1/85
LEADER	LBO315	OSCILLOSCOPE	2,072.00	2/1/92
LEADER	LTC-906	TRANSISTOR TESTER	250.00	
LECTROETCH	VT-15A	POWER UNIT	250.00	
LIN	MC5	TERMINAL, CRT, SMART	370.00	
LIN	MC5	TERMINAL, CRT, SMART	520.00	12/1/90

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
LINGAR	1095	HEAT GUN	58.00	
LINSEIS	L2025	STRIP CHART RECORDER	3,277.78	10/1/88
LION AMERICA	LION-821B	DISK EXPANSION UNIT	650.00	4/18/96
LSI	ADM3A	TERMINAL, CRT, DUMB	550.00	9/1192
M & G	T-150	DEAD WEIGHT	1,363.00	811/75
M. G. INDUSTRIES	65000049- 5 80	PRESSURE REGULATOR	225.00	011,73
MACHINETOOL	50	PORTELEVATOR LIFT	1,445.00	1/22/93
MANSFIELD GREEN	T130	DEADWT TEST	686.30	
MARQUETE		WELDING TOOLS	139.50	
MATSUSHITA	FX-RS506	IMAGE SCANNER	952.00	3/1/90
MATSUSHITA	KX-P1124	PRINTER	278.00	1/1/91
MATSUSHITA	LF5010	DISK DRIVE	2,315.00	8/1/9 1
MAX TECH	PB64	BUFFER	89.00	8/1/88
MAX TECH	PB64	BUFFER	89.00	8/1/88
MAX TECH	PB64	BUFFER PRINTER	99.00	8/1/88
MAX TECH	PB64	BUFFER PRINTER	99.00	8/1/88
MAX TECH	PB64	BUFFER PRINTER	99.00	
MAX TECH	PB64	BUFFER	120.00	
MAX TECH	PB-64	PRINTER BUFFER	89.00	8/1/88
MAYC	286	COMPUTER, PERSONAL	1,390.00	10/1/86
MAYC	286	COMPUTER, PERSONAL	1,645.00	8/1/86
MBI	1410	CRT DISPLAY	469.00	8/1/86
MBI	1410	CRT DISPLAY	469.00	6/1/88
MBICORP	SC-700	CHRONOMETER	35.00	
MCM ELECTRON	72-040	CAPACITANCE METER	59.80	
MENSOR	11600	PRESS.INDICAT.	2.1 13.75	9/ 1/79
MENSOR	11900	PRESS IND.	2,156.50	1/1/82
MENSOR	11900	PRESS.INDICAT.	2,489.00	1/1/82
MENSOR	11900	PRESS.INDICA.	2,489.00	3/1/82
MENSOR	11900	DIG PRESS GAGE	2,375.00	8/1/82
MENSOR	14000	INDICATOR	3,005.00	9/1/91
MENSOR	14000	INDICATOR	3,005.00	9/1 /91
MENSOR	11900-402F	INDICATOR, PRESS., DIG.	3,200.00	9/1/87
MENSOR	14000B	PRESSURE INDICATOR	3,555.00	5/1/90
MESON	L92-133	POWER METER	375.00	12/ 1/92
MESON	L92-134	LIGHT SOURCE	300.00	12/1/92
METRAPLEX	367-01	PCM TEST SET	3,036.00	12/29/82
MG INDUSTRIES	1678	PRESSURE REGULATOR	199.00	. •
MG INDUSTRIES	1678	PRESSURE REGULATOR	150.00	8/3/95
MG INDUSTRIES	65000-69	HAND TRUCK	140.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE	
MGX	7 BM 623	CRT DISPLAY	500.00	8/1/86	
MGX	7BM623	CRT DISPLAY	500.00	10/1/87	
MGX	7BM623	CRT DISPLAY	500.00	10/1/87	
MGX	7BM623 074G	CRT DISPLAY	500.00	1/1/91	
MGX	TY11	CRT DISPLAY	50.00	9/1/86	
MICRO EXPRESS	REGALSX38 6	COMPUTER	2,099.00	9/11/91	
MICRODOT	F321A	SINE WAVE OSCILLATOR	544.75		
MICRODOT	F321A	SINE WAVE OSCILLATOR	544.75		
MICROMATCH	7128	WATTMETER	141.52		
MICROSERVE	386/SX	COMPUTER/KEYBOARD	878.00	7/1/91	
MIKRON	M300	IFRARED RADIATION SOURCE	7,520.00	7/1/88	
MITSUMI	KPQ-E994C	KEYBOARD	98.00		
MITUTOYO	0 THRU 6	MICROMETER SET, 03219, 03220,03136,3217,3218	380.00		
MITUTOYO	BE1-10T-2	GAUGE BLOCK SET	245.00		
MKS	247C	POWER SUPPLY	1,436.00	1/1/93	
MKS	2708	SIGNAL CONDITIONER	2,725.00	12/1/88	
MKS	2708	SIGNAL CONDITIONER	2,325.00	12/1/88	
MKS	390HA	PRESSURE SENSOR	9,280.00		
MKS	390HA	PRESSURE SENSOR	9,280.00		
MM & M	8100AW	FLUTTER METER	2,491.20	6/1/76	
MOBILE-TRONICS CO., INC.	MO-07	SCOPE CART	178.00		
MODULAR CIRCUIT TECH	MUP	EPROM PROGRAMMER/TESTER	80.00	9/15/95	
MONARCH	590	REELTAPE RACK	437.00		
MONARCH	590	REEL TAPE RACK	437.00		
MONARCH	EE	LATHE	15,140.00	9/7/76	
MONITOR SYSTEM	820	SIMULATOR PCM	7,785.00	10/1/84	
MOTOROLA	A03CJ2468A A	RECEIVER	295.00		
MOTOROLA		RECEIVER	295.00		
MOTOROLA	A03CJ2468A A	RECEIVER	295.00		
MOTOROLA	A03CJC2468 AA	RECEIVER	295.00	ر با موسد مراجع المراجع	
MOTOROLA		RADIO RECEIVER	228.00	11/1/93	,
MOTOROLA	-	RADIO RECEIVER - PAGER	228.00	11/1/93	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
MOTOROLA	A03CJC2468 AA	RADIO RECEIVER (PAGER)	228.00	11/1/93
MOTOROLA	A03CJC2468 AA	RADIO RECEIVER (PAGER)	228.00	11/1/93
MOTOROLA	A03CJC2468 AA	RECEIVER-PAGER	228.00	5/2/95
MOTOROLA	A03CJC2468 AA	RECEIVEFUPAGER	228.00	5/2/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/26/95
MOTOROLA	A03DNC2	PAGER	300.00	7/27/95
MOTOROLA	A03DNC2	PAGER	300.00	7/27/95
MOTOROLA	A03DNC2	PAGER	300.00	7/27/95
MOTOROLA	A03DNC2	PAGER	300.00	7/27/95
MOTOROLA	A03DNC2	PAGER	300.00	7/27/95
MOTOROLA	A03DNC2	PAGER	300.00	7/28/95
MOTOROLA	A03FNC2468 A	PAGER	300.00	7/26/95
MOTOROLA	A03FNC2468 A	PAGER	300.00	7/26/95
MOTOROLA	MVME28	MEMORY MODULE	4,000.00	2/1/94
MOTOROLA	MVME28	MEMORY MODULE	8,000.00	2/1/94
NARDA MICROWAVE	3020	DIRECTIONAL COUPLER	275.00	8/28/95
NARDA MICROWAVE	3022	DIRECTIONAL COUPLER	275.00	8/28/95
NARDA MICROWAVE	3022	DIRECTIONAL COUPLER	275.00	8/28/95
NARDA MICROWAVE	3003-10	DIRECTIONAL COUPLER	150.00	8/28/95
NARDA MICROWAVE	3003 -10	DIRECTIONAL COUPLER	750.00	8/28/95
NARDA MICROWAVE	3004-20	DIRECTIONAL COUPLER	150.00	8/28/95
NARDA MICROWAVE	3004-30	DIRECTIONAL COUPLER	150.00	8/28/95

£ 2

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST A	ACQ. DATE
NARDA MICROWAVE	30448-10	DIRECTIONALCOUPLER	200.00	8/28/95
NARDA MICROWAVE	30 44 B-10	DIRECTIONAL COUPLER	200.00	8/28/95
NARDA MICROWAVE	3045C-10	DIRECTIONALCOUPLER	250.00	8/28/95
NARDA MICROWAVE	3142-20	DIRECTIONALCOUPLER	300.00	8/28/95
NASA	5 .5X8	AOA MOUNTING BRACKET	1,500.00	7/24/95
NASA	A & B	SWITCH PLUGIN	150.00	10/4/95
NASA	A&B	SWITCH PLUG IN	150.00	10/4/95
NASA	FR24A	PRESS CONSOLE	573.00	
NASA	NONE	OPTICAL BENCH	573.00	
NASA	OIL	MANOMETER	800.00	
NASA	Q FLEX	SIGNAL CONDITIONER	500.00	2/24/94
NASA	Q-FLEX	CONTROL BOX	500.00	
NASA	Q-FLEX	CONTROL BOX	500.00	
NASA	Q-FLEX	CONTROL BOX	500.00	
NASA	Q-FLEX	CONTROL 80X	500.00	
NASA	Q-FLEX	CONTROL BOX	500.00	
NASA	Q-FLEX	CONTROL BOX	500.00	
NC	C6800	COLLIMATER	575.00	
NEC	CDR 600	CD DRIVE UNIT	644.00	3/1/ 94
NEC	JC1531VMA2	DISPLAY	699.00	7/1P3
NEC	P6	DIGITALPRINTER	470.00	
NEFF	18	AMP. RACK	271.60	
NEFF	90023301	CALIBRATIONPCB	2,000.00	3/31/94
NEFF	90023301	CALIBRATION PCB	2,000.00	3/31/94
NESLAB	CFT-25D	RECIRCULATOR	1,547.15	9/28/90
NETWORK	AD16	TESTER	1,249.00	4/1/91
NETWORK TECH	AD24	MONITOR TESTER	1,445.00	3/1/ 94
NETWORK TECH	AD-24	TESTER MONITOR	1,445.00	2/7/92
NEWHERM		ENGRAVING MACH	368.50 ,	
N N	JC1401	CRT DISPLAY	585.00	7/1/87
NN	JC1401	CRT DISPLAY	600.00	8/1/87
NEY	JC1401	CRT DISPLAY	450.00	9/1/87
NN	JC1402	CRT DISPLAY	496.00	8/1/88
NN	JC1403	CRT DISPLAY	649.00	5/ 1/89
NN	JC1405	CRT DISPLAY	406.00	11/1/90
NEY	JC1405	CRT DISPLAY	402.00	3/1/91
NEY	JC1405	CRT DISPLAY	430.00	9/1/90
NEY	LC890	PRINTER, LASER	3,117.00	10/1/88

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST A	ACQ. DATE
NEY	LC890	PRINTER, LASER	3,069.00	6/1/89
NEY	LC890	PRINTER, LASER	3,455.00	9/1/88
NEY	P2	PRINTER, CHARACTER	685.00	4/1/85
NEY	P2	PRINTER, CHARACTER	51. 2.00	8/1/85
NEY	P2	PRINTER, CHARACTER	512.00	8/1/85
NEY	P6	PRINTER, CHARACTER	503.00	8/1/87
NEY	P6	PRINTER. CHARACTER	474.00	10/1/87
NEY	P6	PRINTER, CHARACTER	568.00	4/1/87
NEY	P6	PRINTER, CHARACTER	568.00	4/1/87
NEY	P6	PRIMER, CHARACTER	462.00	8/1/87
NEY	P6	PRINTER, CHARACTER	474.00	11/1/87
NEY	P6	PRINTER, CHARACTER	474.00	7/1/8 7
NEY	P6	PRINTER, CHARACTER	587.00	4/1/88
NEY	P6	PRIMER, CHARACTER	459.00	7/1/87
NEY	P6	PRINTER, CHARACTER	577.00	10/1/86
NEY	P6	PRINTER, CHARACTER	459.00	7/1/87
NEY	P6	PRINTER. CHARACTER	474.00	4/1/87
NEY	P6	PRINTER, CHARACTER	581.00	10/1/86
NEY	P6	PRINTER, CHARACTER	51.2.00	211/8 7
NEY	P6	PRIMER, CHARACTER	450.00	8/1/07
NEY	P6	PRINTER, CHARACTER	459.00	7/1/87
NICOLET	764	LOGIC ANALYZER	18,456.50	5/1/83
NICOLET	301 0	CONVERTER	755.25	
NICOLET	3010	CONVERTER	795.00	
NICOLET	3091	OSCILLOSCOPE	5,184.00	4/1/84
NICOLET	3091	OSCILLOSCOPE	4,465.00	5/28/85
NICOLET	1090A	DIGITALOSCILLOSCOPE	6,547.20	4/1/81
NICOLET	204A	CONTROLLER	3,567.00	4/1/86
NICOLET	2090 III	DIGITAL STORAGE OSCILLOSCOPE	6,050.00	4/1/86
NJE	CR60- 18D1481	POWER SUPPLY	800.00	
NSC INTERNATIONAL	STAR	BINDING MACHINE	330.00	4/15/94
NSK	1 INCH	CALIPER MIKE	20.00	
NUDATA	921-T2	INTERFACETEST SET	163.20	
ODELL	12	CLEANER	1,665.85	10/1/73
ODELL	44	OVEN	1,665.85	10/16/73
OKI	192	PRINTER, CHARACTER	435.00	10/1/85
OKI	92A	PRINTER. CHARACTER	539.00	5/1/84
OMEGA	4201-P-F2	TEMPERATURE	350.00	4/11/96
		CONTROLLER		s Program APP (April 12 APP (April 12)

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
OPAD	KM87	POWER SUPPLY	185.00	
OPAD ELECTRIC CO.	KM87	POWER SUPPLY	206.00	4/1 5/68
OPTRONIC LABS	83A	POWER SUPPLY	3,990.00	9/26/95
OPTRONIC LABS	OL 1000	IRRADIANCE STANDARD	1,180.00	9/1/95
OPTRONIC LABS	OL 1000	IRRADIANCE STANDARD	1,180.00	9/1195
ORTEC	402D	POWER SUPPLY	900.00	
PACE	MP-1	DESOLDERING STATION	480.00	
?ACE	MP-1	DESOLDERING UNIT	495,00	2/1/94
PACE	PRC-151	POWER SUPPLY	1,250.00	6/1/86
PACE	PRC-151	DESOLDERING STATION	1,375.00	2/7/89
PACE INC	CRAFT 25	PCB REPAIR STATION	9,945.00	3/1P 0
PACE INC	PFP40	FUSE SET REPAIR STATION	977.00	
PACE INC	PRC351	PCB REPAIR STATION	3,154.00	4/1/89
PACKARD BELL	1200	MODEM	89.00	
PACKARD BELL	1200	MODEM	89.00	
PAN	P2123	PRINTER, CHARACTER	251.00	2/1P3
PANASONIC	KXP11241	PRINTER	320.00	2/1/93
PANASONIC	KXP2123	PRINTER	255.00	3/1/94
PANASONIC	KXP2123	PRINTER	255.00	3/1/94
PANASONIC	P1124	PRINTER, CHARACTER	294.00	1/1/92
PAROSCIENTIFIC	600	PRESS.MEAS SYS	1,848.00	4/1/79
PAROSCIENTIFIC	600	PRESS.MEAS SYS	1,848.00	4/1/79
PAROSCIENTIFIC	600	PRESS.MEAS.SYS	1,848.00	4/1/79
PAROSCIENTIFIC	21 00-A	PRESSURE SENSO	2,050.00	8/1/83
PAROSCIENTIFIC	215-A	PRESSURE SENSO	2,050.00	8/1/83
PAROSCIENTIFIC	230D	DIGIQUARTZ PRESSURE	2,050.00	8/1/83
		TRANSDUCER	,	
PAROSCIENTIFIC	600B	PRESSURE COMPUTER	3,903.00	1/1/80
PCB	482A	POWER SUPPLY	90.00	
PCB	484B	POWER SUPPLY	295.00	
PIEZOTRONICS				
PC'S LIMITED	AT110	COMPUTER, PERSONAL	1,200.00	10/1/87
PENN AIRBORNE	9 A5 119	STANDARD RESISTOR,IOTOHM	810.00	
PENN AIRBORNE	9 A51 19-105	STANDARD RESISTOR-	625.00	
PERKINS		SPRING WINDER	3120.00	
PGS	HX12	CRT DISPLAY	472.00	5/1/86
PGS	MAX12	CRT DISPLAY	194.00	5/1/86
PGS	MAX12	CRT DISPLAY	179.00	4/1/86
PGS	RGB-1	CRT DISPLAY	500.00	6/1/86
		-		

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
PGS PHOTOCOM POWER DESIGN POWER MATE POWSTRON PRATT & WHITNEY	ULTRA 16 PC125 2005 BPA-20E PA3001	CRT DISPLAY PRESS CALIBRA POWER SUPPLY POWER SUPPLY ULTRASON CLEAN DRILL PRESS	400.00 975.00 379.00 339.00 865.00 250.00	10/1/90
PRD ELECTRONICS PRECISION MOTION	430-10 CHIPTESTE R	DIRECTIONAL COUPLER CHIP TESTER	150.00 363.00	8/28/95
PRECISION SCIENTIFIC	104	OVEN	260.00	
PSI PSI INTEGRATION	8481-01 PS3100 COMSTATIO	PCU EXTENDER PROGRAMMER POD MODEM	980.00 1,000.00 136.00	2/5/88 8/1/93
PYREX QUCK SET	N ONE 2982 3	CYLINDER TRIPOD	30.00 28.80	C/4 /0.0
RACAL DANA RADIO FREQUENCY LABS	1995 A3 12-500	COUNTER, FREQUENCY REFERENCE MAGNET	3,600.00 150.00	6/1/88 8/12/ 94
RADIO FREQUENCY LABS	HB9272	REFERENCE MAGNET	150.00	8/12/94
RADIO FREQUENCY LABS	HB9272	REFERENCE MAGNET	150.00	8/12/94
RADIO FREQUENCY LABS	HB9272	REFERENCE MAGNET	150.00	8/12/94
RADIO FREQUENCY LABS	VA-172T	REFERENCE MAGNET	150.00	8/12/94
RALMIKES RAND MATERIALS	045-2142 4WHEEL	MICROMETERS INSTRUMENT CART	3,095.00 345.00	10/10/96
HANDUNG RAND MATERIALS HANDLING	6WHEEL	INSTRUMENT CART	215.00	10i1 0/96
RANK TAYLOR RCA	112/753 1005/01	PRECISION LEVEL T V CAMERA	1,946.00 596.00	7/1/75
RDZ REALISTIC	S20+ TRC-83	DISK-WINCHESTER TRANSCEIVER	850.00 39.95	4/1/87
REALISTIC REGAL	TRC-83 NONE	TRANSCEIVER TAP & DIE KT	39.95 188.00	
REMIN	COMMANDE R 600	CART	104.00	
REMIN	CONCORDE II	CART	84.00	, was
REMIN	CONCORDE	CART	84.00	0 AUC 1 AUG

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
RFL	11 829	CALIB. STD.	2,657.40	9/21/73
RFL	1295A	FLUXMETER	623.47	9/21/73
ROCKWELL	636	DRIU	65.00	
ROCKWELL	17-600	DRIUPRESS	398.50	
ROCKWELL	25-709	LATHE	1,661.35	
ROCKWELL	NONE	PED. GRINDER	223.57	
RUBICON	15A	RESISTOR	65.00	
RUBICON	4025B	STD. RESISTOR	150.00	
RUBICON	4035B	STD RESISTOR	150.00	
RUSKA	2413.5	BARRIER	300.00	
RUSKA	2413.5	PRESSURE C E U	300.00	
RUSKA	2416	NULL METER	2,000.00	
RUSKA	2416	PRES MEA SYST	2,505.00	9/1/76
RUSKA	2416.5	PRES INDICATOR	1,155.00	10/1/73
RUSKA	10735	BARRIER	300.00	
RUSKA	2416704	PRES INDICATOR	2,285.00	10/16/73
RUSKA	2416704	PRES INDICATOR	1,465.00	10/16/73
RUSKA	2417706	PRESSURE CELL	7,200.00	
RUSKA	2413-705-0	PRESSURE CELL	3,900.00	
RUSKA	2416-711	PRESSURE INDICATOR	1,560.00	2/1/93
RUSKA	3891-801	BELLOWS	1,880.00	8/3/95
RUSKA	3893-801	CONTROLLER	1,880.00	5/4/90
RUSKA	6005-20	INTERFACE	3,744.00	6/1/77
RUSKA	6211-804-721	DIGITAL PRESSURE GAGE	3,980.00	10/1/89
RUSKA	6211-806-721	PRESSURE GAGE	3,500.00	11/1/89
RUSKA	801-00	HAND PUMP	705.00	
RUSS BASSETT	NONE	CABINET	575.00	
S. S. WHITE	F	ABRASIVE MACH	675.00	
SAMSUNG	SM-12SFA7	MONITOR	95.00	
SARGENT WELCH	8810	VACUUM PUMP	1,500.00	
SBP	286	COMPUTER, PERSONAL	1,128.00.	9/1/88
SBP	286	COMPUTER, PERSONAL	1,128.00	9/1/88
SBP	286	COMPUTER, PERSONAL	1,996.00	8/1/87
SBP	4095N	CRT DISPLAY	470.00	9/1/88
SBP	MCH-4095N	CRT DISPLAY	470.00	9/1/88
SCOTT SPECIALTY GASES	11A	REGULATOR, PRESSURE	182.00	• •
SEAGATE	ST4766N	DISC DRIVE	1,829.00	
SEARS	198618420	FREEZER	189.00	
SEARS	9H22582	SANDER BELT	75.00	سر ا

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
SENCORE	LC102	CAPACITOR ANALYZER	1,686.00	1/1/92
SENCORE	LC53	CAPACITOMETER	647.00	
SENCORE	LC53	CAPACITOMETER	805.50	
SENCORE	LC75	CAPACITOR ANALYZER	805.50	
SENCORE	LC75	CAPACITOR-INDUCTOR ANALYZER	805.00	
SENCORE	TR139B	IN-CIRCUIT TRANSISTOR	72.98	
SENCORE	VA48	ANALYZER	1,095.00	3/1/80
SENCORE	VA62	SIG. ANALYZER	2,965.50	41/86
SENCORE	VC63	VCR TESTER	359.45	
SENSITIVE	ESD	VOLTMETER DC	235.71	
RESEARCH	500	EL EGTBOOT 4 TIO		
SENSITIVE RESEARCH	ESO	ELECTROSTATIC VOLTMETER	275.00	
SHALLCROSS	6860	PREC RES DEC	135.00	
SHALLCROSS	6860	RESISTBOX	190.00	
SHALLCROSS	6862	RESISTANCE BOX	212.00	
SHALLCROSS	6863	DECADE RES	180.00	
SHALLCROSS	6863	PREC RES DECAD	190.00	
SHALLCROSS	6863	DECADE RESIST	267.00	
SHALLCROSS	6860RM	RESISTANCE BOX	150.00	
SHALLCROSS	6860RM	RESISTANCE BOX	150.00	
SHARP	EL-5500 III	COMPUTER, SCIENTIFIC	70.00	
SHARP	EL55001	CALCULATOR	70.00	
SHIELD-ARC	SAE300	WELDER	500.00	
SHIMADEN	SR-17	TEMPERATURE CONTROLLER	400.00	4/1 1/96
SIMPSON	160	METER	60.72	
SIMPSON	160	METER	60.72	
SIMPSON	260	VOM	50.00	
SIMPSON	260	VOM	50.00	
SIMPSON	260	VOM	50.00	
SIMPSON	260	VOM	54.00	
SIMPSON	260	VOM	63.00	
SIMPSON	260	VOM	61.65.	
SIMPSON	260	VOM	61.65	
SIMPSON	260	VOM	63.45	
SIMPSON	260	VOM	50.00	ما تا الله الله الله الله الله الله الله
SIMPSON	270	VOM	50.00	
SIMPSON	260-5M	MULTIMETER	50.00	د
SIMPSON	260-5M	MULTIMETER	50.00	
SIMPSON	260-5M	MULTIMETER	50.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
SIMPSON	260-5M	VOM	54.00	
SIMPSON	260-5M	VOM	63.00	
SIMPSON	260-5M	VOM	63.00	
SIMPSON	260-6	VOM	61.65	
SIMPSON	260-6	MULTIMETER	60.28	
SIMPSON	260-6	VOM	60.28	
SIMPSON	260-6	VOM	60.28	
SIMPSON	260-6	VOM	60.28	
SIMPSON	260-6	VOM	50.28	
SIMPSON	260-6	VOM	60.28	
SIMPSON	260-6M	VOM	61 .50	
SINGER	5010-1	MICROWAVE AMP	3,832.00	8/1/72
SKILL	2016	DRILL PORTABLE	119.00	
SMITH	SM02805	PRINTER STAND	85.00	
MANUFACTURING				
COMPANY	0. 40000	DDIVITED OTAND	407.50	
SMITH MFG	SM02805	PRINTER STAND	107.50	
SMITH MFG	SM02805	PRINTER STAND	107.50	
SMITH MFG	SM02805	PRINTER STAND	107.50	
SMITH MFG CO	SM02805	PRINTER STAND	85.00	
SMITH MFG CO	SM02805	PRINTER STAND	85.00	
SMITH MFG CO	SM02805	PRINTER STAND	85.00	
SMITH MFG CO	SM02805	PRINTER STAND	85.00	
SMN	SR-15	PRINTER, CHARACTER	674.00	4/1/86
SMU	CM4531	CRT DISPLAY	439.00	8/1 E92
SMU	CM4967	CRT DISPLAY	299.00	3/1/93
SMU	S286	COMPUTER, PERSONAL	3,178.00	9/1/87
SNAP ONTOOLS	TQ12B	TORQE WRENCH	50.00	
SNAP ON TOOLS	TQ3	TORQUE WRENCH	44.00	
SNAP ON TOOLS	TQ3	TORQUE WRENCH	38.00	
SOLA	28510	POWER SUPPLY	330.00	
SOLA	28510	POWER SUPPLY	330.00	
SONY	CVM1720	T V MONITOR	788.50	
SONY	PVM1270	MONITOR TV	741.00	
SORENSEN	61 0 B	NOBATRON	825.00	<u> </u>
SORENSEN	FR1000	VOLTAGE REG .	1,431.00	10/1/73
SORENSEN	QB28-8	POWERSUPPLY , .	492.00	运用 料料 点
SORENSEN	no-1.5	POWER SUPPLY	252.00	
SPECTRAL	SD104A-	SWEEP OSCILLATOR	2.215.00	5/1/85
DYNAM ICS SPECTRAL	5FS2 SD112-1	VOLTMETER	3,234.00	6/1/77
DYNAMICS			•	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
SPECTROLINE	PE-140T	EPROM ERASER	50.00	9/14/95
SPECTRON	MUPI2	SIGNAL CONDITIONER	380.00	•
STANFORD	DS345/1	FUNCTION GENERATOR	2,405.00	
STANFORD	DG535	GENERATOR, PULSE	4,757.00	
RESEARCH		·		
STAR MICRONICS	SR10	PRINTER	549.00	5/1/85
STARRETT	199	PRECISION LEVEL	95.00	
STARRETT	199	LEVEL, PRECISION	256.60	
STARRETT	467	THICKNESS GAGE	125.00	
STARRETT	AG16CLM	GAGE BLOCK SET	2,275.00	
STARRETT	HD46A1X	GAGE BLOCKS	876.00	
STOSS		DIAL INDICATOR	125.08	
SUNDSTRAND	W	ACCELEROMETER	1,060.00	
SUNDSTRAND	W	ACCELEROMETER	1,060.00	
SUNDSTRAND	QA900	ACCELEROMETER	1,060.00	
SUPERMAC	STD9750	CRT DISPLAY	2,720.00	7/12/91
TECHNOLOGY SYSTRON DONNER	0015	VOLTMETER	485.10	
SYSTRON DONNER		TAPE SEARCH UNIT	2,085.50	
SYSTRON DONNER		TIME CODE GENERATOR-	3,710.25	
3131KON DONNEK	0150-255	READER	3,710.23	4/ 1/8 1
SYSTRON DONNER	TPZC48	POWER SUPPLY	145.00	
SYSTRON-DONNER	8150	TIME CODE GENERATOR- READER	4,528.00	11/1/72
T RUSS	MF-7-3	CABINET, STORAGE	575.00	3/1/80
TAB8	NONE	FILE SHELF	403.00	
TALWEL	112/753	ELECTLEVEL	1,400.00	2/1/75
TAYLOR-WHARTON	XL-45	NITROGEN DEWAR	1,539.00	8/1 <i>/</i> 94
TCA	QT-60E	MAG TAPE, CASSETTE	1,090.00	11/1/87
TCA	QT-60E	MAGTAPE, CASSETTE	1,240.00	7/1 /87
TCA	ZVM136	CRT DISPLAY	550.00	12/1/85
TDB	MM1222	CRT DISPLAY	110.00	12/1/86
TECHNI-TOOL	849P0700	VACUUM CLEANER	233.00	
TEK	TM503	POWER MODULE	150.00	
TEKTRONIX	106	SQ WAVE GEN	665.00	
TEKTRONIX	130	LC METER	225.00	
TEKTRONIX	177	TEST FIXTURE	950.00	
TEKTRONIX	178	ICTEST FIXTURE	1,067.00	1/24/76
TEKTRONIX	191	SIGNAL GEN	674.15	
TEKTRONIX	191	CONSTANT AMPLITUDE	425.00	Control of the Contro
TEKTRONIX	284	SIGNAL GENERATOR PULSE GENERATO .	873.00	*

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TEKTRONIX	323	OSCILLOSCOPE	965.12	
TEKTRONIX	323	OSCILLOSCOPE	965.12	
TEKTRONIX	323	OSCILLOSCOPE	1,354.50	1/1/79
TEKTRONIX	323	OSCILLOSCOPE	1 ,354 .50	1/1/79
TEKTRONIX	323	OSCILLOSCOPE	1,354.50	1/1/79
TEKTRONIX	324	OSCILLOSCOPE	1,285.25	4 /1/74
TEKTRONIX	335	OSCILLOSCOPE	2,104.31	7/1/80
TEKTRONIX	335	OSCILLOSCOPE	2,104.31	7/1 /8Q
TEKTRONIX	335	OSCILLOSCOPE	2,462.40	8/1/83 .
TEKTRONIX	335	OSCILLOSCOPE	2,755.20	3/1/83
TEKTRONIX	455	OSCILLOSCOPE	1,688.29	1/1/79
TEKTRONIX	475	OSCILLOSCOPE	2,822.70	1/1/76
TEKTRONIX	475	OSCILLOSCOPE	2,902.50	1/1/79
TEKTRONIX	475	OSCILLOSCOPE	3,128.28	4/1/81
TEKTRONIX	5 4 7	OSCILLOSCOPE.	1,885.97	3/1/80
TEKTRONIX	564	STORAGE OSCILLOSCOPE	886.50	
TEKTRONIX	567	OSCILLOSCOPE	759.73	
TEKTRONIX	575	TRANS TRACER	1,337.00	9/1/73
TEKTRONIX	577	CURVE TRACER	2,376.50	1/1/76
TEKTRONIX	602	DISPLAY UNIT	1,042.75	3/1/86
TEKTRONIX	604	CRT DISPLAY	916.65	
TEKTRONIX	604	CRT DISPLAY	8 94 .94	
TEKTRONIX	834	DATATESTSET	3,990.00	10/1/84
TEKTRONIX	834	DATA TEST SET	2,232.00	9/18/90
TEKTRONIX	1470	NTSC COLOR SYNC &TEST SIGNAL GENERATOR	2,600.00	8/1/78
TEKTRONIX	2215	OSCILLOSCOPE	1,344.00	5/1 /83
TEKTRONIX	2465	OSCILLOSCOPE	4,750.00	1/1/84
TEKTRONIX	5403	OSCILLOSCOPE	1,212.50	8/11/75
TEKTRONIX	7603	OSCILLOSCOPE	1,722.00	7/1 /74
TEKTRONIX	78 44	OSCILLOSCOPE, DUAL BEAM	5,723.00	2/1/75
TEKTRONIX	78 44	OSCILLOSCOPE	10,709.00	4/10/81
TEKTRONIX	7904	OSCILLOSCOPE	3,977.00	9/1/76
TEKTRONIX	7904	OSCILLOSCOPE	5,510.00.	6/1/80
TEKTRONIX	067-0500 -00	CALIBRATION FIXTURE.	100.00	
TEKTRONIX	067-0 508-00	AMPLITUDE CALIBRATOR	1,100.00	5/1/81
TEKTRONIX	067-0521-00	CALIBRATION FIXTURE	200.00	
TEKTRONIX	067-0521-00	PLUG IN	325.00	
TEKTRONIX	067- 0587-01	SIG. STANDARD	385.00	,
TEKTRONIX	067-0587-02	CALIBRATION FIXTURE	3,830.00	9/1/88
TEKTRONIX	067-0589-00	EXTENDER PLUG-IN	1,810.00	2/28/92

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TEKTRONIX	067-0616-00	PLUG-IN EXTEND	695.00	
TEKTRONIX	067-0616-00	PLUG-IN EXTEND	695.00	
TEKTRONIX	067-0625-00	DETECTOR	120.00	
TEKTRONIX	067-0680-00	CALIB.FIXTURE	547.00	
TEKTRONIX	067-0746-00	ANALYZER, BUS	1,250.00	9/29/86
TEKTRONIX	1480C	MONITOR	2,318.30	311 0/7 6
TEKTRONIX	149A	GENERATOR	3,977.00	2/1/75
TEKTRONIX	190B	CONST AMP GEN	330.00	
TEKTRONIX	1A 1	DUAL-TRACE PLUG-IN UNIT	650.00	
TEKTRONIX	1A1	PLUG IN	650.00	
TEKTRONIX	1S1	SAMPLING UNIT	1,105.50	8/1/82
TEKTRONIX	200C	SCOPE CART	125.00	
TEKTRONIX	200C	SCOPE CART	125.00	
TEKTRONIX	200C	SCOPE CART	125.00	
TEKTRONIX	2430A	OSCILLOSCOPE	7,473.00	9/1/89
TEKTRONIX	2A60	AMPLIFIER	105.00	
TEKTRONIX	2A63	DIFFERENTIALAMPLIFIER	152.00	
TEKTRONIX	2B67	TIME BASE	212.00	
TEKTRONIX	3A75	AMPLIFIER	177.00	
TEKTRONIX	3 84	TIME BASE	495.00	
TEKTRONIX	3876	DUALTRACE	1,100.00	10/1/73
TEKTRONIX	3T77A	SAMPLING SWEEP	691.41	
TEKTRONIX	454A	OSCILLOSCOPE	3,104.00	5/1/74
TEKTRONIX	465DM43	OSCILLOSCOPE	2,662.65	3/1/76
TEKTRONIX	475A	OSCILLOSCOPE	3,525.00	3/1/82
TEKTRONIX	520A	VECTORSCOPE	3,104.00	5/1 /76
TEKTRONIX	535A	SCOPE	1,372.00	9/1/73
TEKTRONIX	545B	OSCILLOSCOPE	1,635.45	9/1/73
TEKTRONIX	545B	SCOPE	1,635.48	2/1/75
TEKTRONIX	545B	OSCILLOSCOPE.	1,550.00	5/1/83
TEKTRONIX	561A	OSCILLOSCOPE	500.00	
TEKTRONIX	5A15N	AMPLIFIER	175.00	
TEKTRONIX	5 A4 8	DUALTRACE AMPLIFIER	450.00	
TEKTRONIX	5812N	DUALTIME BASE	227.50	
TEKTRONIX	5B31	DIGITALLY DELAYED TIME BASE	602.00	
TEKTRONIX	6R1A	DIGITALUNIT A	2,763.20	9/1/73
TEKTRONIX	7704A	OSCILLOSCOPE	2,806.00	10/1/77
TEKTRONIX	7904A	OSCILLOSCOPE	10,431.00	10/4/88
TEKTRONIX	7A11	AMPLIFIER	2,700.00	*
TEKTRONIX	7A1 3	DIFFERENTIAL COMPARATOR	2,659.20	7/1/83 ,
		a wid		Chief - And

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TEKTRONIX	7A13	DIFFERENTIAL COMPARATOR	2,456.00	4/1/81
TEKTRONIX	7A16A	WB AMPLIFIER PLUG IN	1,334.75	8/1/88
TEKTRONIX	7A16A	AMPLIFIER	1,334.75	8/22/88
TEKTRONIX	7A16A	PLUG-IN	1,200.00	
TEKTRONIX	7A18	DUAL TRACE AMPLIFIER	535.00	
TEKTRONIX	7A19	AMPLIFIER	800.25	•
TEKTRONIX	7A19	PLUG IN	2,859.50	9/8/88
TEXTRONIX	7A19	AMPLIFIER-	700.90	. •
TEKTRONIX	7 A2 2	PLUG IN	1,762.25	11/8/88
TEKTRONIX	7A22	AMPLIFIER	610.00	
TEKTRONIX	7A22	AMPLIFIER, DIFFERENTIAL	610.00	
TEKTRONIX	7A24	O'SCOPE AMPLIFIER	1,509.00	1/31/80
TEKTRONIX	7A26	PREAMPLIFIER	1,062.15	9/1/76
TEKTRONIX	7A26	DUALTRACE AMPLIFIER	1,050.00	9/1/77
TEKTRONIX	7A26	PLUG IN	1,388.00	4/1/84
TEKTRONIX	7 A2 6	PLUG-IN DUALTRACE AMPLIFIER	1,050.00	
TEKTRONIX	7 A2 6	DUAL TRACE AMPLIFIER	1,050.00	
TEKTRONIX	7 A2 6	AMPLIFIER, DUALTRACE	1,050.00	
TEKTRONIX	7 A2 6	DUAL TRACE AMPLIFIER	1,388.00	6/1/80
TEKTRONIX	7B53A	DUALTIME EASE	1,249.67	8/18/82
TEKTRONIX	7B53A	DUALTIME BASE	850.00	
TEKTRONIX	7B53A	PLUG-IN DUAL TIME BASE	850.00	
TEKTRONIX	7870	TIME BASE	675.00	
TEKTRONIX	7 B7 0	TIME BASE	675.00	
TEKTRONIX	7871	DELAYINGTIME BASE	775.00	
TEKTRONIX	7871	TIME BASE, DELAYING	775.00	
TEKTRONIX	7 B 80	PLUG-IN	1,151.00	4/10/81
TEKTRONIX	7 B 85	PLUG-IN	1,378.00	4/1/81
TEKTRONIX	7B92A	DUALTIME BASE	1,430.25	9/7/76
TEKTRONIX	7B92A	DUALTIME BASE	1,400.00	9/1/77
TEKTRONIX	7B92A	DUALTIME BASE	3,676.00	9/22/88
TEKTRONIX	7 B 92A	O'SCOPE TIME BASE	2,187.00	6/1 /80
TEKTRONIX	7 B 92A	DUALTIME BASE PLUG IN	300.00	
TEKTRONIX	7001	LOGIC ANALYZER	4,972.95	4/1/79
TEKTRONIX	AF501	BANDPASS FILTER	782.40	
TEKTRONIX	AFG5501	FUNCTION GENERATOR	4,507.00	9/ 1/91
TEKTRONIX	8	SCOPE CART	1 10.00	
TEKTRONIX	CA	PREAMP	260.00	
TEKTRONIX	D	PLUG-IN UNIT	'155.00	
TEKTRONIX	D	PLUG-IN UNIT	'1 72.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TEKTRONIX	D	PLUG IN AMP	172.00	
TEKTRONIX	DF2	FORMATTER	2,140.00	8/1/82
TEKTRONIX	DM501	DIG MULTIMETER	459.56	
TEKTRONIX	FG501	FUNCT GEN	388.00	
TEKTRONIX	FG503	FUNCT GEN	315.25	
TEKTRONIX	FPEN834	TEST SET	2,327.50	4/30/86
TEKTRONIX	K	PLUG-IN UNIT	147.00	
TEKTRONIX	K	PLUG-IN UNIT	147.00	
TEKTRONIX	K	PLUG IN AMP	147.00	~. *-
TEKTRONIX	K	PLUG-IN UNIT	135.00	
TEKTRONIX	K213	INSTRUMENT CART	675.00	
TEKTRONIX	L	PLUG-IN UNIT	212.00	
TEKTRONIX	MR501	OSCOPE MONITOR	532.00	
TEKTRONIX	P6013	PROBE	325.00	
TEKTRONIX	P6022	CURRENT PROBE	326.00	
TEKTRONIX	P6562	PROBE/CLIP KITS	629.00	
TEKTRONIX	PG501	PULSE GEN	339.50	
TEKTRONIX	PG501	PULSE GEN.	339.50	
TEKTRONIX	PG502	GENERATOR, PULSE	2,892.75	7/1/87
TEKTRONIX	PG506	CAL.GENERATOR	1,095.00	
TEKTRONIX	PG506	CALIBRATION GENERATOR	1,978.00	
TEKTRONIX	PG506	CALIBRATION GENERATOR	2,845.25	7/1/87
TEKTRONIX	PG506A	CALIBRATION GENERATOR	4,743.00	
TEKTRONIX	P\$503A	DUAL POWER SUPPLY.	150.00	
TEKTRONIX	PS503A	DUAL POWER SUPPLY	150.00	
TEKTRONIX	R G 501	RAMP GENERATOR	175.00	
TEKTRONIX	SC501	OSCILLOSCOPE	900.00	5/1 <i>2/80</i>
TEKTRONIX	SG502	OSCILLATOR	363.75	
TEKTRONIX	S G 502	OSCILLATOR, PLUG-IN	500.00	
TEKTRONIX	SG502	OSCILLATOR, PLUG IN	500.00	10/4/95
TEKTRONIX	SG503	SIGNAL GENERAT	582.00	
TEKTRONIX	SG503	GENERATOR	1,568.12	
TEKTRONIX	SG503	SINE WAVE GENERATOR	2,280.00	7/1/87
TEKTRONIX	SG504	SIGNAL GEN	2,215.00	. 4/18/84
TEKTRONIX	TG501	TIME BASE GENERATOR	462.00	
TEKTRONIX	TG501	GENERATOR	962.66	04004
TEKTRONIX	TG501	TIME MARK GENERATOR	1,59225	
TEKTRONIX	TG501	TIME MARK GENERATOR	2,489.00	7/6/87
TEKTRONIX	TM5006A	POWER MOOULE	1,164.00	
TEKTRONIX	TM501	POWER SUPPLY	135.00	and the second s
TEKTRONIX	TM-501	POWER MOOULE	125.00	

TEKTRONIX TM503 POWER MODULE 250.00 TEKTRONIX TM503 POWER MODULE 250.00 TEKTRONIX TM503 POWER MODULE 250.00 TEKTRONIX TM503 POWER MODULE 500.00 TEKTRONIX TM503 POWER MODULE 210.00 10/3/95 TEKTRONIX TM503 POWER MODULE 210.00 10/6/95 TEKTRONIX TM503 POWER MODULE 180.00 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 POWER MODULE 315.00 TEKTRONIX TM504 POWER MODULE 315.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 TELEDYNE T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TENNYJR TEMP.TEST CHAM 750.00 TEXAS 10STRUMENTS TEXAS 59 CALCULATOR 950.00 INSTRUMENTS TEXAS 11-5142 CALCULATOR 78.00	
TEKTRONIX TM503 POWER MODULE 250.00 TEKTRONIX TM503 POWER MODULE 250.00 TEKTRONIX TM503 POWER MODULE 500.00 TEKTRONIX TM503 POWER MODULE 210.00 10/3/95 TEKTRONIX TM503 POWER MODULE 210.00 10/6/95 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 PWR MODULE 180.00 TELEDYNE CPR-1FC CALIBRATION BOX 395.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE	TEKTRONIX
TEKTRONIX TM503 POWER MODULE 500.00 TEKTRONIX TM503 POWER MODULE 210.00 10/3/95 TEKTRONIX TM503 POWER MODULE 210.00 10/6/95 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 PWR MODULE 184.30 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92	
TEKTRONIX TM503 POWER MODULE 500.00 TEKTRONIX TM503 POWER MODULE 210.00 10/3/95 TEKTRONIX TM503 POWER MODULE 210.00 10/6/95 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 PWR MODULE 184.30 TEKTRONIX TM504 PWR MODULE 315.00 TEKTRONIX TM504 PWR MODULE 315.00 TEKTRONIX TM504 PWR MODULE 184.30 TEKTRONIX TM504 PWR MODULE 315.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92	TEKTRONIX
TEKTRONIX TM503 POWER MODULE 210.00 10/6/95 TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 PWR MODULE 184.30 TELEDYNE CPR-14A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-14A READOUT, POWER SUPPLY 695.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 295.00 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 <tr< td=""><td></td></tr<>	
TEKTRONIX TM504 POWER MODULE 180.00 TEKTRONIX TM504 PWR MODULE 184.30 TEKTRONIX TM504 PWR MODULE 315.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-HFC CALIBRATION BOX 395.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE TEST TEMDUM 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENTYJR TEMP.TEST CHAM 4,801.60 4/24/79 TERMALINE 67	TEKTRONIX
TEKTRONIX TM504 PWR MODULE 184.30 TEKTRONIX TM5C4 POWER MODULE 315.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-HFC CALIBRATION BOX 395.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	TEKTRONIX
TEKTRONIX TM5C4 POWER MODULE 315.00 TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-HFC CALIBRATION BOX 395.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TI PROG CALCULATOR 49.80	TEKTRONIX
TELEDYNE CPR-1A READOUT, POWER SUPPLY 695.00 TELEDYNE CPR-HFC CALIBRATION BOX 395.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TEKTRONIX
TELEDYNE CPR-HFC CALIBRATION BOX 395.00 TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 950.00 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TEKTRONIX
TELEDYNE S-86-CN PUMP 495.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAUGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TELEDYNE
TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAUGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TELEDYNE
TELEDYNE VT-6B VACUUM GAGE 245.00 TELEDYNE VT-6B VACUUM GAGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 31.8.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TELEDYNE
TELEDYNE VT-6B VACUUM GAUGE 299.00 12/1/92 TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS VT-6B VACUUM GAGE 318.00 HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	TELEDYNE
TELEDYNE HASTINGS TELEDYNE VT-6B VACUUM GAGE 318.00 HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 11 PROG CALCULATOR 49.80 INSTRUMENTS TEXAS 11 PROG CALCULATOR 49.80	TELEDYNE
HASTINGS TELEDYNE HASTINGS TELEVIDEO 920C TERMINAL T94.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS TEXAS INSTRUMENTS	TELEDYNE
TELEDYNE HASTINGS TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS 11 PROG CALCULATOR 49.80	TELEDYNE
TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS 11 PROG CALCULATOR 49.80 INSTRUMENTS	
TELEVIDEO 920C TERMINAL 794.00 TENNEY T-55 TEST CHAMBER 5,100.00 1/24/76 TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TI PROG CALCULATOR 49.80 INSTRUMENTS TI PROG CALCULATOR 49.80	
TENNEY TENNYJR TEMP.TEST CHAM TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
TENNEY TENNYJR TEMP.TEST CHAM 4,801.60 4/24/79 TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
TENNEY TH5-SPL HUMIDITY CHMBR 13,800.00 6/1/81 TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
TERMALINE 67 WATTMETER 275.00 TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
TEXAS 59 CALCULATOR 260.95 INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
INSTRUMENTS TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
TEXAS 6613RX3 PULSE GENERATOR 950.00 INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
INSTRUMENTS TEXAS TI PROG CALCULATOR 49.80 INSTRUMENTS	
INSTRUMENTS	
TEXAS TI-5142 CALCULATOR 78.00	
INICTOLINATATO	
INSTRUMENTS THE MARVEL 72003 WORK STATION 906.00 10/10/96	
GROUP 900.00 10/10/30	
THERMO ELECTRIC 31157 TEMPERATURE 2,275.00 4/1/90	
CALIBRATOR	
TI TI-60 CALCULATOR 35.00	TI
TORIT 66 DUSTCOLLECTOR 422.00	
TRANSISTOR DLR-130-5- DYNA-LOAD 497.00	
DEVICES 100 TRANSISTOR DIRISSO DYNA-LOAD 497.00	
THURSTON DELIGIO	
DEVICES 150 TRANSMATICS 2632CC- DIGITAL ANGLE INDICATOR 3,132.00 7/1/88	
44SEL/488	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
TRIPLETT	3525	DIGI-PROBE MULTIMETER	65.00	
TRIPLETT	3525	DIGI-PROBE MULTIMETER	65.00	
TROEMNER	65000472	CYLINDER STAND	105.00	
TRYGON	HR20-5	POWER SUPPLY	352.50	4/15/68
TRYGON	HR36-5	POWER SUPPLY	352.50	
TRYGON	HR40500	POWER SUPPLY	152.50	
TRYGON	HR405B	POWER SUPPLY	573.00	
TRYGON	HR40750	POWER SUPPLY	329.00	
TRYGON	SHR40-1 .SA	PWR. SUP.	199.00	
TRYGON	SHR4015	PWR. SUP.	199.00	
TVI	955	TERMINAL, CRT, SMART	478.00	12/1/88
ULTIMATE COMPUTER	NONE	MICROMANAGER WORK STATION	130.55	7.7
SUPPLIES	NONE	COMPLITED CART	400.55	
ULTIMATE COMPUTER	NONE	COMPUTER CART	130.55	
SUPPLIES				
ULTIMATE	NONE	MICROMANAGER	130.55	
COMPUTER		WORKSTATION		
SUPPLIES				
ULTIMATE	NONE	MICROMANAGER	130.55	
COMPUTER		WORKSTATION		
SUPPLIES ULTIMATE	NONE	MICROMANAGER	130.55	
COMPUTER	INOINE	WORKSTATION	130.55	
SUPPLIES		WORKOTATION		
ULTIMATE	NONE	MICROMANAGER	130.55	
COMPUTER		WORKSTATION		
SUPPLIES				•
ULTRADEX AA IND		INDEXER	2,000.00	
UNHOLTZ DICKIE	608PS-1	PWR. SUP.	425.00	
UNHOLTZ DICKIE	608PS-1	PWR SUPPLY	425.00	
UNIMATION		LATHE & ACCES.	381.75	
UNION CARBIDE	50LD	LIQUID NITROGEN REFRIG.	606.00	
UNION CARBIDE	LR50	REFRIGERATOR	636.00	
UNION CARBIDE	LS-160	NITROGEN DEWAR	1,500.00	
UNION CARBIDE	PGS-45	NITROGEN CONT.	1,785.00	5/ 28/85
UNITED DETECTOR		RADIOMETER	980.00	-
UNITED SYSTEMS	311	VOLT. CALIBRA	637.00	~
UNITEK	1048A	WELDMATIC	743.70	_
UNIVERSAL DYNAM ICS	PSP271	EXTENDER CARD	1,000.00	3/10/94
US ROBOTICS	735	FAX SERVER	1,640.00	11/1/94
US ROBOTICS	V.32 BIS	MODEM "	378.00	
	-,	" \$ 1/h !		AVETEK

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
UVP	C-25	ERASE EPROM	319.00	
VAISALA	HM133	TEMP/HUM. INDICATOR	1,286.00	5/1/87
VALHALLA	2724A	STANDARD, CALIB	4,713.00	7/1J86
VALHALLA	2724A	RESISTANCE CALIB.STANDARD	5,045.00	4/1/89
VARIAN	NONE	PRESSURE CHAMBER	500.00	8/3/95
VEECO	RG-31X	CONTROLLER	573.00	
VIBROGRAF	B200A	RECORDER, TIME	1,865.00	5/14/87
VICTOREEN	2000A	DOSIMETER CHARGER	200.00	
VIDEOTEK	DM-40-R	DEMODULATOR	1,270.00	7/9/84
VIGOR	BN225	WATCHMAKE BENC	125.00	
VIGOR	EN-225	WTCHMKRS BENCH	140.00	
VISHAY	1301	DECADE RESIS	265.00	
VISHAY	1301	DECADE RESIS	265.00	
VISIRECORD	М	CABINET	962.15	
VISUAL INFO	27	GENERATOR BAR	850.00	
VLT	PST160	MAGTAPE, CASSETTE	1,885.00	3/1/92
VLT	PST160F	TAPE BACKUP SYSTEM	1,577.00	2/1/92
VOCUMETRICS	V-1 R	CONTROLLER	250.00	
VOLUMETRICS	V-1 R	PRES. BELLOWS	535.00	
VOLUMETRICS	VIR	CONTROLLER	400.00	
WADDY	NONE	CABINET	154.00	
WALLACE & TIERNAN	FA1 <i>2</i> 9	GAUGE	700.00	
WALLACE & TIERNAN	FA145	PRESS GAUGE	280.00	
WALLACE & TIERNAN	FA1 4 5	PRESS GAUGE	282.00	
WALLACE & TIERNAN	FA145	PRESS GAUGE	282.00	
WALLACE & TIERNAN	FA160	PRESS GAUGE	171.00	
WALLACE & TIERNAN	FA160	PRESS GAUGE	1 71 .00	
W A U C E & TIERNAN	FA160	DIALGAGE	194.00	•
WALLACE & TIERNAN	FA160	PRESSURE GAGE	234.00	45 42166
WALLACE & Tiernan .	FA233	PRESS GAUGE	4'17.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
WAVETEK	164	SWEEP GENERATOR ~	2,095.00	7/1/83
WAVETEK	164	SWEEP GENERATOR	2,095.00	7/1/83
WAVETEK	3000	SIGNAL GEN	2,692.00	the state of the s
WAVETEK	4708	CALIBRATION STANDARD	22,900.00	12/1/89

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST A	CQ. BATE
WEATHERTRONICS	5021	HYGROTHERMOGRA	365.00	
WEATHERTRONICS	5021	HYGROTHERMOGRA	365.00	
WEATHERTRONICS	5021	HYGROTHERMOGRA	365.00	
WEATHERTRONICS	5021	HYGROTHERMOGRA	365.00	
WEATHERTRONICS	5 02 1	HYGROTHERMOGRA	365.00	
WEATHERTRONICS	5021	HYGROTHERMOGRA	365.00	
WEINSCHEL	430A	OSCILLATOR	2200.00	5/1/81
WEINSCHEL	4310A/K	SWEEPER SYSTEM	27,930.00	4/1/81
WEINSCHEL	436A	RF UNIT	1,189.00	1/1/83
WELCH	1 402	VAC PUMP	342.50	
WELCH	1402	VAC PUMP	342.50	
WELCH	1402	VAC PUMP	342.50	
WELCH	1402	VAC PUMP	325.00	
WELCH	1 402	VAC PUMP	327.50	
WELCH	1402	VACUUMPUMP	342.50	
WELCH	1402	VACUUM PUMP	420.00	
WELCH	1402	VACUUM PUMP	420.00	
WELCH	1402	VACUUM PUMP	420.00	
WELCH	8810	VACUUM PUMP	600.00	
WELCH	1402B	VAC PUMP	405.00	
WELCH	891 5A	PUMP, VACUUM	1,095.00	8/13/91
WELCH		VAC PUMP	200.00	
WELCH		VAC PUMP	158.00	,
WESTINGHOUSE	1777564	LOADBANK	400.00	7/28/95
WESTON	433	AC AMMETER	153.00	
WESTON	622	MICROAMMETER	258.37	
WESTON	799	INSULAT TESTER	108.00	
WHITE INSTRUMENTS	2640	FILTER SET	625.00	
WHITEY	SS-33V54- 31CC	SOLENOID VALVE	359.00	
WILKE TECH		TEST SET, DATA	1,054.00	3/6/92
WILKERSON	A01AH	REFRI. DRYER	400.00	
WYLE	3	SIGNAL CONDITIONER	300.00	7/19/95
WYLE	200 FT	CABLE	300.00	9/6/95
WYLE	200 FT	CABLE	300.00	9/6/95
WYLE	NONE	LOAD BANK	500.00	7/28/95
WYS	VW60	TERMINAL, CRT, SMART	294.00	10/1/92
WYSE	900128-02	KEYBOARD	117.00	
WYSE	900128-02	KEYBOARD	117.00	
WYSE	900128-02	KEYBOARD	117.00	

MANUFACTURER	MODEL	DESCRIPTION	ACQ. COST	ACQ. DATE
WYSE XCELITE YAMAHA ZENITH	WY-60-01-01 3CSK-BR KM802 ZCM1490 B B	TERMINAL, COMPUTER COAX STRIPPER MIXER, AUDIO DISPLAY THERMOCOUPLE THERMOCOUPLE WIRE THERMOCOUPLE WIRE	317.00 68.00 275.00 629.00 300.00 300.00	9/1/88
	R	THERMOCOUPLE WIRE	300.00	

The State of
EXHIBIT D

REGISTER OF WAGE DETERMINATIONS UNDER U.S.DEPARTMENT OF LABOR

THE SERVICE CONTRACT ACT EMPLOYMENT STANDARDS ADMINISTRATION

By direction of the Secretary of Labor

WAGE AND HOUR DIVISION
WASHINGTON, D.C. 20210

Wage Determination No.: 94-2544

William W. Gross Division of Revision No.: 14

Director Wage Determinations Date of Last Revision: 07/02/1997

State(s): 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 For All Occupations Included In This Wage Determination Follow The Occupational Listing **

OCCUPATION CODE AND TITLE

MINIMUM HOURLY WAGE

ADMINISTRATIVE SUPPORT AND CLERICAL:

01011 Accounting Clerk I 01012 Accounting Clerk Π	\$ 6.75 \$ 852
01013 Accounting Clerk III	\$ 10.60
01014 Accounting Clerk IV	\$1150
01030 Court Reporter	\$10.81
01050 Dispatcher, Motor Vehicle	S 9.23
01060 Document Preparation Clerk	\$ 9.29
01070 Messenger (Courier)	\$ 9.01
01090 Duplicating Machine Operator	\$ 9.29
01110 Film/Tape Librarian	\$ 9.28
01115 General Clerk I	\$ 734
01116 General Clerk II	\$ 9.03
01117 General Clerk III	\$11.23
01118 General Clerk IV	\$1255
01120 Housing Referral Assistant	\$ 11.98
01131 Key Entry Optrator I	\$ 7.78
01132 Key Entry Operator II	\$ 9.79
01191 Order Clerk I	\$ 7.40
01192 Order Clerk II	\$ 9.68
01261 Personnel Assistant	\$ 8.85
(Employment) I	
01262 Personnel Assistant	\$10.23
(Employment)Ⅱ	
01263 Personnel Assistant	\$10.80 ,
(Employment) III	
01264 Personnel Assistant	\$1238
(Employment) IV	

and the second

01270 Production Control Clerk	\$11.98
01290 Rental Clerk	\$ 9.28
01300 Scheduler, Maintenance	\$ 9.28
01311 Secretary I	\$ 9.28
01312 Secretary II	S 10.80
01313 Secretary III	\$12.38
013 14 Secretary IV	\$14.46
01315 Secretary V	\$15.18
01320 Service Order Dispatcher	S 9.28
01341 Stenographer I	\$ 8.78
01342 Stenographer II	3 9.86
01400 Supply Technician	\$11.50
01420 Survey Worker(Interviewer)	\$10.80
01460 Switchboard Operator-Receptionist	S 8.08
01510 Test Examiner	\$10.80
01520 Test Examiner 01520 Test Proctor	\$10.80
	\$ 6.91
01531 Travel Clerk I	\$ 7.53
01532 Travel Clerk II	
01533 Travel Clerk III	\$ 8.13
01611 Word Processor I	\$10.00
01612 Word Processor II	\$11.27
01613 Word Processor III	\$12.62
AUTOMATIC DATA PROCESSING:	
03010 Computer Data Librarian	S 8.26
03041 Computer Operator I	\$ 9 . 25
03042 Computer Operator II	\$ 10 . 70
03043 Computer Operator III	\$ 13.25
03044 Computer Operator IV	\$ 15.34
03045 Computer Operator V	\$16.3 1
03071 Computer Programmer I 1/	\$13.38
03072 Computer Programmer II 1/	\$15.1 5
03073 Computer Programmer III 1/	\$18.05
03074 Computer Programmer IV 1/	\$21.52
03 101 Computer Systems Analyst I 1/	\$ 17.62
03102 Computer Systems Analyst II 1/	\$20.228
03103 Computer Systems Analyst III 1/	\$24.9 8
03160 Peripheral Equipment Operator	\$ 8.26
AUTOMOTIVE SERVICE:	
05005 Automobile Body Repairer, Fiberglass	S 16.22
05005 Automobile Body Repairer, Floerglass 05010 Automotive Glass Installer	\$14.79
05040 Automotive Worker	\$14.79
	\$15.49
05070 Electrician, Automotive	612.27
05100 Mobile Equipment Servicer	\$15.37 st. \$16.22
05130 Motor Equipment Metal Mechanic	\$14.79
05160 Motor Equipment Metal Worker 05190 Motor Vehicle Mechanic	***
05220 Motor Vehicle Mechanic Helper	
<u> </u>	And 4 OF
05250 Motor Vehick Upholstery Worker	\$14.07
05280 Motor Vehicle Wrecker	\$15.49
053 10 Painter, Automotive	\$T2• 43

-3°44

1

05340 Radiator Repair Specialist 05370 Tire Repairer 05400 Transmission Repair Specialist	\$14.07 \$ 1337 \$16.22
FOOD PREPARATION AND SERVICE:	
07010 Baker 07041 Cook I 07042 Cook II 07070 Dishwasher 07100 Food Service Worker (Cafeteria Work 07130 Meat Cutter 07250 Waiter/Waitress	\$ 8.68 \$ 7.85 \$ 8.68 \$ 6.05 \$ 6.05 \$ 8.68 \$ 658
FURNITURE MAINTENANCE AND REPAIR:	
09010 Electrostatic Spray Painter 09040 Furniture Handler 09070 Furniture Refinisher 09100 Furniture Refinisher Helper 09110 Furniture Repairer, Minor 09130 Upholsterer	\$15.49 \$11.21 \$15.49 \$12.61 \$14.07 \$15.49
GENERAL SERVICES AND SUPPORT.	
11030 Cleaner, Vehicles 11060 Elevator Operator 11090 Gardener 11121 Housekeeping Aide I 11122 Housekeeping Aide II 11150 Janitor 11210 Laborer, Grounds Maintenance 11240 Maid or Houseman 11270 Pest Controller 11300 Refuse Collector 11330 Tractor Operator 11360 Window Cleaner	4 6.05 \$ 6.05 \$ 7.75 \$ 5.93 \$ 6.49 \$ 6.05 \$ 6.58 \$ 552 \$ 8.25 4 6.05 \$ 7.38 \$ 6.58
HEALTH:	
12020 Dental Assistant 12040 Emergency Medical Technician/ Paramedic Ambulance Driver 12070 Licensed Practical Nurse I 12071 Licensed Practical Nurse II 12072 Licensed Practical Nurse III 12100 Medical Assistant 12130 Medical Laboratory Technician 12160 Medical Record Clerk 12190 Medical Record Technician 12221 Nursing Assistant I 12222 Nursing Assistant II 12223 Nursing Assistant III 12224 Nursing Assistant IV	\$ 10.15 \$ 9.13 \$ 8.00 \$ 8.98 \$10.05 \$ 8.98 \$ 8.98 \$ 8.98 \$ 12.45 \$ 652 \$ 7.33 \$ 8.00 \$ 8.00 \$ 8.98 \$ 8.98 \$ 8.98

i deride

12250 Pharmacy Technician 12280 Phlebotomist 123 11 Registered Nurse I 12312 Registered Nurse II 12313 Registered Nurse II, Specialist 12314 Registered Nurse III 12315 Registered Nurse III, Anesthetist 12316 Registered Nurse IV	\$11.20 \$ 8.98 \$ 12.45 \$15.23 3 15.23 \$18.43 \$18.43 \$22.09
INFORMATION AND ARTS:	
13002 Audiovisual Librarian 13011 Exhibits Specialist I 13012 Exhibits Specialist II 13013 Exhibits Specialist III 13041 Illustrator I 13042 Illustrator II 13043 Illustrator III 13047 Librarian 13050 Library Technician 13071 Photographer I 13072 Photographer II 13073 Photographer III 13074 Photographer IV 13075 Photographer IV	\$11.96 \$ 15.02 \$ 18.25 \$20.27 \$15.02 \$ 18.25 \$20.27 \$ 13.75 \$11.02 \$11.33 \$15.02 \$18.25 \$20.27 \$24.53
LAUNDRY, DRY CLEANING, PRESSING:	
15010 Assembler 15030 Counter Attendant 15040 Dy Cleaner 15070 Finisher, Flatwork, Machine 15090 Presser, Hand 15100 Presser, Machine, Dy Cleaning 15130 Presser, Machine, Shirts 15160 Presser , Machine, Wearing Apparel, Laundry 15190 Sewing Machine Operator 15220 Tailor 15250 Washer, Machine	\$ 5.49 \$ 5.49 \$ 6.77 \$ 5.49 \$ 5.49 \$ 5.49 \$ 5.49 \$ 7.22 \$ 7.67 \$ 5.93
MACHINE TOOL OPERATION AND REPAIR:	
19010 Machine-tool Operator (Toolroom) 19040 Tool and Die Maker MATERIALS HANDLING AND PACKING:	\$15.49 \$ 17.84
21010 Fuel Distribution System Operator 21020 Material Coordinator 21030 Material Expediter 21040 Material Handling Laborer 21050 Order Filler 21071 Forklift Operator 21080 Production Line Worker (Food Processing)	\$13.37 \$12.19 \$12.19 \$ 7.44 \$ 8.46 \$ 9.05 \$10.54



	21100 Shipping/Receiving Clerk		\$ 8.85
	21 130 Shipping Packer		4 8.85
	21140 Store Worker I		\$ 8.40
	21150 Stock Clerk (Shelf Stocker, Store Worker II)		\$ 9.92
	21210 Tools and Parts Attendant		\$ 10.95
	21400 Warehouse Specialist		\$10.54
MECHA	ANICS AND MAINTENANCE AND REPAIR:		
	23010 Aircraft Mechanic		\$ 16.22
	23040 Aircraft Mechanic Helper		\$ 12.6 1
	23050 Aircraft Quality Control Inspector		\$ 16.94
	23060 Aircraft Servicer		\$ 14.07
	23070 Aircraft Worker		\$ 14.79
	23100 Appliance Mechanic		\$15.49
	23120 Bicycle Repairer		\$13.37
	23125 Cable Splicer		\$ 16.22
	23 130 Carpenter, Maintenance		\$15.49
	23140 Carpet Layer		\$ 14.79
	23 160 Electrician. Maintenance		\$ 16.22
	23181 Electronics Technician, Maintenance I		\$ 13.99
	23 182 Electronics Technician, Maintenance II		\$1431 \$4500
	23 183 Electronics Technician, Maintenance III		\$1533 \$44.0 7
	23260 Fabric Worker		\$14.07
	23290 Fire Alarm System Mechanic		\$ 16.22
	23310 Fire Extinguisher Repairer		313.37
	23340 Fuel Distribution System Mechanic		\$16.22 \$44.70
	23370 General Maintenance Worker		\$ 14.79
	23400 Heating, Refrigeration and Air Conditioning Mechanic	1C	\$16.22 \$46.22
	23440 Heavy Equipment Mechanic		\$ 16.22 \$ 16.22
	23440 Heavy Equipment Operator 23460 Instrument Mechanic		\$ 16.22 \$ 16.22
	23470 Laborer		\$ 10.22 \$ 9.68
	23500 Locksmith		\$ 15.49
			\$16.18
	23530 Machinery Maintenance Mechanic 23550 Machinist, Maintenance		\$ 16.22
	23580 Maintenance Trades Helper		\$12.61
	23640 Millwright		\$ 16.22
	23700 Office Appliance Repairer		\$15.49
	23740 Painter, Aircraft		3 15.49
	23760 Painter, Maintenance		\$ 15.49
	23790 Pipefitter, Maintenance		\$ 16.22
	23800 Plumber, Maintenance		\$ 15.49
	23820 Pneudraulic Systems Mechanic		316.22
	23850 Rigger		\$16.22
	23870 Scale Mechanic		\$ 14.79
	23890 Sheet-metal Worker, Maintenance		\$16.22
	23910 Small Engine Mechanic	453	\$ 14.79
	23930 Telecommunications Mechanic I		\$16.22
	23940 Telecommunications Mechanic II		S 16.94
	23950 Telephone Lineman		\$16.22
	23960 Welder, Combination, Maintenance		\$16.22
	23965 Well Driller	• «	\$16.22
	23970 Woodcraft Worker		\$16.22
	· · · · · · · · · · · · · · · ·	II aqua	29063 1.375 1.

esta est.

23980 Woodworker	\$ 13.37
PERSONAL NEEDS:	
24570 Child Cart Attendant 24580 Child Care Center Clerk 24600 Chore Aide 24630 Homemaker	\$ 6.34 \$ 7.91 \$ 4.91 \$ 8.33
PLANT AND SYSTEM OPERATION:	
25010 Boiler Tender 25040 Sewage Plant Operator 25070 Stationary Engineer 25190 Ventilation Equipment Tender 25210 Water Treatment Plant Operator	\$16.22 \$15.49 \$16.22 \$12.61 \$15.49
PROTECTIVE SERVICE:	
27004 Alarm Manitor 27006 Corrections Officer 27010 Court Security Officer 27040 Detention Officer 27070 Firefighter 27101 Guard I 27102 Guard II 27130 Police Officer	\$ 7.21 \$11.47 311.47 311.47 \$11.47 \$ 6.03 \$ 7.21 \$12.28
STEVEDORING/LONGSHOREMEN SERVICE OCCUPATIONS:	
28010 Blocker and Bracer 28020 Hatch Tender 28030 Line Handler 28040 Stevedore I 28050 Stevedore II	\$12.33 \$12.33 \$12.33 \$11.80 \$12.96
TECHNICAL:	
29010 Air Traffic Control 2/Specialist, Center 29011 Air Traffic Control 2/Specialist, Station 29012 Air Traffic Control 2/Specialist, Terminal 29023 Archeological Technician I 29024 Archeological Technician III 29025 Archeological Technician III 29030 Cartographic Technician 29035 Computer Based Training Specialist/Instructor 29040 Civil Engineering Technician 29061 Drafter I 29062 Drafter III 29063 Drafter III 29064 Drafter IV 29081 Engineering Technician I 29082 Engineering Technician III	\$23.96 \$16.53 \$18.20 \$11.43 \$12.85 \$15.87 \$15.47 \$17.62 \$15.87 \$10.07 \$11.33 \$14.24 \$1730 \$1150 \$12.30

	29084 Engineering Technician IV	\$ 18.35	
	29085 Engineering Technician V	\$21.43	
	29086 Engineering Technician VI	\$26.48	
	29090 Environmental Technician	\$15.87	
	29100 Flight Simulator Instructor (Pilot)	\$20.28	
	29150 Graphic Artist	\$ 17.62	
	29160 Instructor	\$15.23	
	29210 Laboratory 'Technician	\$11.83	
	29240 Mathematical Technician	\$ 15.87	
	29361 Paralegal/Legal Assistant I	\$10.80	
	29362 Paralegal/Legal Assistant II	\$13.12	
	29363 Paralegal/Legal Assistant III	\$16.05	
	29364 Paralegal/Legal Assistant IV	\$ 19.42	
	29390 Photooptics Technician	\$ 15.87	
	29480 Technical Writer	\$ 15.02	
	29491 Unexploded Ordinance Technician I	\$15.02	
		\$18.43	
	29492 Unexploded Ordinance Technician II	\$22.09	
	29493 Unexploded Ordinance Technician III	\$15.23	
	29494 Unexploded Safety Escort	\$ 15.23 \$ 15.23	
	29495 Unexploded Sweep Personnel	\$ 13.23 \$ 12.80	
	29620 Weather Observer, Senior 3/		
	29621 Weather Observer. Combined 3/Upper Air and	\$11.83	
	Surface Programs	d 11 02	
	29622 Weather Observer, Upper Air 3/	\$ 11.83	
TRAN	SPORTATION/MOBILE EQUIPMENT OPERATION:		
	21020 Due Duiver	\$ 9.42	
	31030 Bus Driver	\$ 6.98	
	31260 Parking and Lot Attendant	\$ 9.01	
	3 1290 Shuttle Bus Driver	\$ 9.01 \$ 8.50	
	3 1300 Taxi Driver	\$ 9.01	
	31361 Truckdriver, Light Truck		
	31362 Truckdriver, Medium Truck	\$ 9.42	
	31363 Truckdriver, Heavy Truck	\$10.50	
	36364 Truckdriver, Tractor-Trailer	\$ 10.50	
MISC	ELLANEOUS :		
	99020 Animal Caretaker	\$ 7.00	
	99030 Cashier	\$ 7.00	
		\$ 5.93	
	99041 Carnival Equipment Operator	\$ 5.93 \$ 738	
	99042 Carnival Equipment Repairer		
	99043 Carnival Worker	\$ 7.75	
	99050 Desk Clerk	\$ 7.00	
	99095 Embalmer	\$17.63	
	99300 Lifeguard	S 5.36	
	993 10 Mortician	\$ 17.63	
	99350 Park Attendant (Aide)	\$ 6.73	₽ ₹
	99400 Photofinishing Worker (Photo Lab / Dark Room Technician)	\$ 6.01	
	99500 Recreation Specialist	\$13.04	
	99510 Recycling Worker	S 7.41 :	w
	99610 Sales Clerk		,
	99620 School Crossing Guard (Crosswalk Attendant)	\$ 6.05	
	99630 Sports Official	\$ 536	

99658 Survey Party Chief	\$ 7.85
99659 Surveying Technician	\$ 7.50
99660 Surveying Aide	S 4.91
99690 Swimming Pool Operator	\$ 8.68
99720 Vending Machine Attendant	\$ 7.41
99730 Vending Machine Repairer	\$ 8.68
99740 Vending Machine Repairer Helper	\$ 7.41

** Fringe Benefits Required For All Occupations Included In This Wage Determination **

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; 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 predecessor contractors in the performance of similar work at the same Federal facility. (See 29 CFR, 4.173)

HOLIDAYS: 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)

- Docs not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See 29 CFR 4.156)
- 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.
- APPLICABLETO WEATHER OBSERVERS ONLY NIGHT PAY & SUNDAY PAY: If you work at night as a 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 employee (40 hours r week) and Sundry 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).

** 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 reduas 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 maintenana at a rate of \$4.25 per week (or \$.85 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 Titles and Descriptions:

The duties of employees under job titles listed arc those described in **the** "Service Contract Act Directory of Occupations,' Fourth Edition, January **1993**, as amended by the Second Supplement, dated August 1995, 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 contcact (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 arc 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(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivakncy (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), 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 additional time will be required to process the request.
- 5) The contracting offiar 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 E - CONTRACT DOCUMENTATION REQUIREMENTS

I. OOCUMENTATION PREPARATION/SUBMISSION INSTRUCTIONS

- A Financial Management Reports--The Contractor shall comply with the Section I clause of this contract entitled 'NASA Contractor Financial Management Reporting' by monthly submission *d* 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 Policy and Guidelines (NPG) 9501.2C, "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 7.b. and d. shall be completed using the approved time-phased financial baseline plan.
- 3. Columns 8.a. and b. shall be completed using estimates (forecasts) for the succeeding two months.
- 4. Minimum reporting categories (applicable to contract, CLIN, <u>and</u> Task Level 533M's):
 - a. Direct Labor Dollars
 - b. Direct Labor Hours
 - c. Overhead(s)/Salary Related Expenses
 - d. Subcontracts
 - e. Material
 - f. Other Direct Costs
 - g. Total Estimated Cost
 - h. Fee
 - I. Total Estimated Cast and Fee
- **5.** Each 533M shall include a narrative explanation for variances exceeding 10 percent between planned hours and dollars and actual hours and dollars for each reporting category.
- 6. A 533M shall also be provided for each CLIN, and for each Task Order under CUN 3.
- **B.** Quarterly Financial Management Report--The Contractor shall submit a quarterly financial report detailed by categories specified in 1 above on NASA Form 5330 at times and in accordance with the instructions contained on the reverse side of the form. The initial 533Q shall be submitted within 10 operating days after award of the contract.
- C. Financial Baseline Plan--A time-phased financial baseline plan, detailing by month how you plan to incur costs for the period, shall be submitted for the first 12-month interval of the total five year contract period. Financial baseline plans for each of the remaining 12-month intervals shall be submitted within 10 days of the anniversary of the effective date of this contract. Financial baseline plan revisions resulting from the exercise of priced option hours shall be submitted 10 days following the effective date of the option being exercised. This plan shall include the periods by the cost categories specified in Paragraph A.4 above. The total estimated cost reflected in the baseline plans must equal the contract values for the total contract period. No overrun costs will be included in the baseline plans.

The Financial Baseline **Plan will** 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 **Financial**



ſ

Baseline Plan shall not be revised to include overrun costs. Revisions to the Financial Baseline Plan are subject to Contracting Officer approval.

- D. Safety and Health Plan--Within 30 calendar days after the effective date of the contract, the Contractor shall submit a detailed safety and health plan showing how the Contractor intends to protect the life, health, and well being of NASA and Contractor employees as well as property and equipment. This plan, as approved by the Contracting Officer, should contain, as a minimum the following:
- 1. Points of Contact and Responsibility--Organizational flow chart and description of responsibilities of each employee in your organization for safety.
- **2.** Employee Safety Training, Certification and Programs--Detailed information on type of training required, parties responsible for certification, and outline of applicable regulations. Detail company programs which emphasize personal safety and motivate employees to be safety conscious.
- 3. LaRC Safety Policies/Procedures--Recognition & applicable LaRC safety policies and procedures such as Langley Handbook 1710.10, LaRC Red Tag System.
- 4. Accident Investigation and Reporting--Procedures for investigating and reporting accidents/incidents incidents in
 - Hazardous Operations--
 - (a) Description of hazardous operations invoked in contract performance,
- (b) Plans for apprising employees of all hazards to which they may be exposed.
- (c) Proper conditions and precautions for safe use and exposure to hazardous operations. Include recognition of LHB 1710.12, Potentially Hazardous Materials.
- 6. People with Disabilities--In accordance with the Americans with Disabilities Act, the plans should specify that prior to assigning a person with disabilities to this contract, the Contractor shall contact the Disability Program Manager at (804) 864-7718.
- **7.** Other Safety Considerations--Any other safety considerations unique to your operation.
- **E.** Semiannual Equipment Report--The Contractor shall submit a Semiannual Government-furnished Equipment Report summarizing maintenance/calibration performed on the equipment. This report shall be submitted within 10 operating days following the end of the reporting period.
- F. Semiannual Accident/Injury Report—The Contractor shall submit a Semiannual Accident/Injury Report within 10 operating days after the end of each quarter.
- G. 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 D.
- H. 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.



- I. NASA 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 I clause entitled 'Financial Reporting of NASA Property in the Custody of Contractors.'
- J. Subcontracting Reports--The Contractor shall submit Standard Form 294, Subcontracting Report for Individual Contracts, Standard Form 295, Summary Subcontractor Report, and in accordance with the instructions on the reverse of the form.

In addition to the instructions on the reverse of the SF 295, the Contractor is required to comply with Clause 1852.219-75, Small and Small Disadvantaged Subcontracting Reporting.

Pursuant to the contract clause entitled 'Small Business and Small Disadvantaged Subcontracting Plan' (FAR 52.219-9 and 19.704(a)(5)), you are required to submit a letter progress report on a monthly basis. The 'Monthly Progress Report for Socioeconomic Goals' shall be limited to the monthly data only (excluding cumulative data from beginning of Subcontract Plan) as required for Lines 10A, 10B, 10C, 11, and 12 of the Standard Form 294. Letter progress reports may be signed by the Contract Administrator or equivalent organizational level, and each report is due by the 10th calendar day of the month following the close of the reporting period.

- **K.** List of Instruments Due for Calibration--Shall be submitted monthly in accordance with Statement of Work paragraph 1.5.3.
- L Federal Contractor Veterans Employment Report--In compliance with Clause 52.222-37, Employment Reports on Special 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.
- M. Evidence of Insurance—The Contractor shall submit evidence of the insurance coverage, required by the NASA Clause 1852.228-75 in Section I entitled 'Minimum Insurance Coverage' (Le., a Certificate of Insurance or other confirmation), to the Contracting Officer prior to performing under this contract. In the event the Government exercises its options to extend the term of the contract, the Contractor shall also present such evidence to the Contracting Officer prior to commencement of performance under the extension.
- N. Virginia and Local Sales Taxes--In accordance with Section H., you are required to submit a copy of the letter sent to the Virginia Tax Commission and a copy of the subsequent response.
- O. New Technology Report--The Contractor shall submit all disclosures of reportable items and subject inventions, interim reports, subcontract identification and other information as required by the clause at 1852.227-70, New Technology. Further, upon completion of the work under the contract (or subcontract, if any) a final report shall be submitted.
- **P.** Quality Plan -- Within 30 calendar days after contract award, the Contractor **shall** submit a Quality Plan which addresses how the contract quality requirements will be met. The **Plan** will be reviewed and approved by the Contracting Officer, and the approved Quality Plan shall become a **part** of the contract.
- Q. Monthly Progress Report (CLIN 3 Task Orders Only) -- The Contractor shall provide a narrative description of technical progress/work accomplished during the month. A summary of cost incurred for the month and cumulative cost since task inception shall also be provided.
- R. Semiannual Technical Progress Report--The Contractor shall provide a narrative report of the technical progress made under each CLIN during the 6-month period.
- **S.** Monthly Staffing Report--The Contractor shall submit a monthly report listing the staffing for that month by contract CLIN.

(

Ĺ

II. DOCUMENT DISTRIBUTION REQUIREMENTS

A. Unless otherwise specified elsewhere in this contract, reports arid other documentation shall be submitted **F.O.B.** destination as specified below, addressed as follows:

National Aeronautics and Space Administration Langley Research Center Attn: D. H. Jones, Mail Stop 126 Contract NAS1-_____ Hampton, VA 23681-0001

- **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 235
 - 3. C--New Technology Representative, Mail Stop 212
 - 4. D--Cost Accounting, Mail Stop 135
 - 5. E--Safety Manager, Mail Stop 429
 - 6. F--Industry Relations Office, Mail Stop 144
 - 7. G--Programs and Resources Division, Mail Stop 104
 - 0. H--Patent Counsel, Mail Stop 212
 - 9. I--Industrial Property Office, Mail Stop 377
 - 10. J--According to instructions on form
 - 11. K--Small Business Specialist, Mail Stop 144
- **C.** The following are the distribution requirements for reports and other documentation required with the numeral following the letter code specifying the number of copies to be provided:

QOCUMENT		LETTER CODE DISTRIBUT	
Financial Management Report (NASA Forms 533M and 533	Q)	A-1, B-2 , D-2 , G	3-1
Financial Baseline Plan		A-2, B-1	
Safety and Health Plan		A-1, B-1, E-1	
Semiannual Equipment Report		A-1, B-3	<i>5</i> *
SemiannualAccident/Injury Report	e y was	A-1, B-1, E-1	n and he
Conformable Wage Rate Agreement	•	A-1, B-1, F-1	arn M
Collective BargainingAgreement		²³ A-1, B-1, F-19∋	的雄 粉雜

NASA Property in the Custody of Contractors (NASA Form 1018)	J
Subcontracting Report for Individual Contracts (Standard Form 294)	A-1, K-1
Summary Subcontractor Report (Standard Form 295)	J
Monthly Progress Report for Socioeconomic Goals	A-1, K-1
List of instruments Due For Calibration	B-2
Federal Contractor Veterans Employment Report (VETS-100)	J
Evidence of Insurance	A-1
Virginia and Local Sales Tax Correspondence	A-1
New Technology Report	_ A-1. 8-2, C-1. H-1
Quality Plan	A-2, B-2
Monthly Progress Report (CLIN 3 Task Orders only)	A-1, 83
Semiannual Technical Progress Report	A-1,B-3
Patent Rights Report	A-1, B-2, C-1, H-1
Requisition and Invoice/Shipping Document (DO Form 1149)	I-1
Response to LaRC Notice of Violation (Safety)	J
Monthly Staffing Report	A-1, B-3

O. When the Contract Administrator (A) is not designated above to receive a copy of a report or document, the Contractor shall furnish a copy of the report/document transmittal letter to the Contract Administrator. The Contractor shall also furnish a copy of the transmittal letter and a copy of each Financial Management Report to the delegated Administrative Contracting Officer of the cognizant DoD (or other agency) contract administrative services component.

EXHIBIT F

INFORMATION MANAGEMENT SYSTEM FOR ETTD SUPPORT SERVICES

In January 1992, NASA Langley's Experimental Testing Technology Division (ETTD), formerly the Instrument Research Division (IRD), and its instrument services Contractor initiated a project to design, develop, and assemble a PC server-based Information Management System (TMS) network. The IMS tracks the Contractor effort in repairing, servicing and calibrating digital instrumentation, data acquisition systems, computers, and electronic test and measurement equipment.

The IMS is a relational database (Advanced Revelation) with many ancillary programs and files. It is the principal operating vehicle, touching many areas internally as well as externally in the daily administration of instrument support services activities. The IMS, which resides on Ethernet-based file servers using Novell Netware 3.11 as the operating system, is located at building 1230, ETTD and at the Contractor's facility (s).

The two mirror imaged networks are synchronized by maintaining communications by way of Larchet. INFOPC, the heart of the IMS, is a highly automated work order control system that allows ETTD's technical area managers simultaneously to access, via workstations on the Local Area Network (LAN), data in real time for tracking progress and monitoring the work flow process.

The IMS is configuration controlled with anti-virus protection operating continuously and back ups to tape made daily. Daily update from NASA Equipment Management System (NEMS) are being performed to maintain congruency with that system. Data entry originates from multiple workstations throughout the networks both at Contractor(s) facility(s) and ETTD. INFOPC is Electronic Data Interchange technology (EDI), that when necessary, generates forms, shipping tags, delay notifications, calibration due notices, equipment repair cost notifications, ctc. The database includes: equipment file, work order file, GFE inventory, stockroom inventory and issues, purchase order tiles, calibration software, engineering drawings, and software configuration control documentation. Task information, service details, and data are all electronically stored to either hard drives or optical disks (worm). All stored information is available at an individual users workstation.

In FY %, ETTD initiated a project to design and develop a testing technology server for the World Wide Web to serve the needs of Langley's research community. With the collaboration of the Instrument Systems and Services Division and their support service Contractor, a forms-based query facility was incorporated into the testing technology Web offerings to facilitate convenient and widespread access to information within INFOPC. With this enhancement, this information has become readily available not only to Langley's testing technology community, but to all potential users of this equipment at Langley.



EXHIBIT G

List of NASA Software/Hardware Documentation Standards

Documentation for hardware and software deliverables shall conform to the NASA Software Documentation Standard Software Engineering Program, NASA-STD-2100-91, dated July 1991 (or later revision). This documentation shall include the following Data Item Descriptions (DIDs), with deviations in breadth/scope specified by each Task Order or ESR:

Product Description DIDs

- P000 Product Specification
- P100 Concept
- P200 Requirements
- P300 Architectural Design
- P400 Detailed Design
- P410 Firmware Support Manual
- P500 Version Description
- P600 User's Guide
- P700 Operational Procedures Manual

Management Plan DIDs

- M000 Management Plan
- M100 Acquisition Plan.
- M200 Development Activities Plan
- M210 Training Development Plan
- M300 Sustaining Engineering and Operations Activities Plan
- M400 Assurance Plan
- M500 Risk Management Plan
- M600 Configuration Management Plan
- M700 Delivery and Operational Transition Plan

Assurance and Test Procedures DIDs

- A000 Assurance and Test Procedures
- A100 Assurance Procedures
- A200 Test Procedures

Management, Engineering, and Assurance Reports DIDs

- R000 Management, Engineering, and Assurance Reports
- R001 Certification Report
- R002 Audit Report
- R003 Inspection Report
- R004 Discrepancy Report
- R005 Engineering Change Proposal
- R006 Lessons Learned Report
- R007 Performance/Status Reports
- R008 Assurance Activity Report
- R009 Test Report
- R010 Waiver/Deviation Request
- R011 Review Report

Additionally, software items developed under this contract shall be in a programming language mutually acceptable by the Government and the Contractor and shall include annotated source code. Hardware deliverables shall include original or updated drawings and schematics.

<u>بري</u>د.

ang an Manggar

EXHIBIT ti - UST OF ACRONYMS

ACRONYM DEFINITION

AD Acquisition Division, NASA LaRC
ADPE Automatic Data Processing Equipment
AGR Authorized Government Representative
ANSI American National Standards Institute

BER Beyond Economical Repair CLIN Contract Line Item Number

COTR Contracting Officer's Technical Representative

DAS
Data Acquisition System
DID
Data Item Description
DOD
Department & Defense
ECN
Equipment Control Number
ESP
Electronically Scanned Pressure
ESR
Engineering Service Request

ETTD Experimental Testing Technology Division, NASA LaRC FMD Financial Management Division, NASA LaRC

GFE Government Furnished Equipment
INFOPC LaRC Metrology and Information System

IRD Instrument Research Division, NASA LaRC (Note: Although IRD

no longer exists as a Langley organization, this acronym still appears in

the htle of various current Langley documents.)

ISO International Standards Organization ISTP instrument Scoring & Tracking Program

IWO Instrument Work Örder
LAN Local Area Network
LaRC Langley Research Center
LHB Langley Handbook

Lind Light. Distance & Ranging

LIDAR Light, Distance

 Ranging

LMO Logistics Management Office, NASA LaRC

MAP' Measurement Assurance Programs

MCN Metrology Control Number

MCWG Metrology & Calibration Working Group

MET/TRACK® Metrology Tracking Software

NASA National Aeronautics and Space Administration NCSL National Conference of Standards Laboratories

NEMS NASA Equipment Management System

NHB NASA Handbook

NIST
NASA Management Instruction
NASI
Receipt & Inspection Report
RFP
Request For Proposal
Sow
Statement of Work

SOW Statement of Work Sensors, Transducers, Instruments

TAM Task Area Monitor