

## CONTRACT NAS1-20048

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

- Section B.6.C., systems maintenance dollar amounts, page 3;
- Section H.2, names of key personnel, page 14;
- Section H.16.A., CSC fiscal year, indirect cost pool, ceiling percentage and allocation base, pages 20 and 21;
- Section H.17, B and C, paragraphs concerning advance agreement on certain cost elements, pages 21 and 22;
- Section H.18, the conversion schedule, page 22;
- Section H.19.A, system maintenance dollar amounts, page 23;
- Appendix A - all unit prices, page 72-98;
- Exhibit E (Subcontracting Plan): Business methodologies and goals for the basic level of effort and the additional level of effort; names, duties and titles of personnel administering the plan; and planned services and supplies.

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 privileged 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).

Regarding the names of key personnel withheld from the contract, disclosure of such information, which was submitted to the Government in confidence, would allow potential competitors to benefit from the company's efforts to build up a highly successful management team which possesses unique experience and expertise. Such information is not readily available upon request by a third party.

Disclosure of the financial information could cause substantial competitive harm to the contractor by providing its competitors insight into the company's costing practices and management approaches. Furthermore, disclosure would discourage other companies from participating in future competitive procurements, thereby impairing the Government's ability to obtain complete and accurate cost data, and in turn, frustrating the mandate to obtain maximum competition in negotiated procurements.

Disclosure of the unit prices in the contract would reveal the company's pricing and discount strategy, and would aid competitors in estimating future bids of the submitter. Therefore, this information is being withheld under exemption 4. See Sperry Univac Div. v. Baldrige, 3 GDS 83,265 at 84,052 (E.D. Va 1982).

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.

<b>AWARD/CONTRACT</b>		1. THIS CONTRACT IS A RATED ORDER UNDER OPAS (15 CFR 350)	RATING 00-C9	PAGE 1 OF 10
2. CONTRACT (Proc. Inst. Ident.) NO. NAS1-20048		3. EFFECTIVE DATE 9/1/93	4. REQUISITION/PURCHASE REQUEST/PROJECT NO. PR: 1100.1015	
5. ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-0001		6. ADMINISTERED BY (If other than Item 5)		

**EXECUTED BY BOTH PARTIES**

7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and ZIP Code) Computer Sciences Corporation Applied Technology Division 6565 Arlington Boulevard P. O. Box 2227 Falls Church, VA 22042-0227		8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)
		9. DISCOUNT FOR PROMPT PAYMENT N/A
		10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN: ITEM G.4

11. SHIP TO/MARK FOR See F.4 and F.6	FACILITY CODE	12. PAYMENT WILL BE MADE BY Financial Management Division, M/S 175 NASA, Langley Research Center Hampton, VA 23681-0001
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13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)(1) <input type="checkbox"/> 41 U.S.C. 253(c)(1)	14. ACCOUNTING AND APPROPRIATION DATA See attached.
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15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT	
	Scientific Computing Operations, Maintenance, and Communications (SCOMAC) Services					
	Initial			Est. Cost	Fee	Total
	1st Option			\$ 28,045,000	\$ 1,780,000	\$ 29,825,000
	2nd Option			\$ 31,041,000	\$ 1,988,000	\$ 33,029,000
	7 Yr. Total			\$ 49,994,000	\$ 3,207,000	\$ 53,201,000
	3rd - 8th Options			\$ 109,080,000	\$ 6,975,000	\$ 116,055,000
	Optional LOE			\$ 8,742,000	\$ 516,000	\$ 9,258,000
	Systems Maintenance Price Pool			\$ 26,419,050	\$ 1,704,113	\$ 28,123,163
						\$ 35,000,000
<b>15G. TOTAL AMOUNT OF CONTRACT</b>					<b>\$188,436,163</b>	

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**CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE**

17. <input type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)	18. <input type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.
19A. NAME AND TITLE OF SIGNER (Type or Print)	20A. NAME OF CONTRACTING OFFICER WILLIAM R. KIVETT
19B. NAME OF CONTRACTOR	20B. UNITED STATES OF AMERICA Department of Defense
BY _____ (Signature of person authorized to sign)	BY _____ (Signature of Contracting Officer)
19C. DATE SIGNED	20C. DATE SIGNED AUG 27 1993

ACCOUNTING AND APPROPRIATION DATA

1150.2503	M1790	992-16-04-04	\$ 287,373	(Complete)
1140.1504	M2000	992-14-04-11	\$ 48,000	(Complete)
1140.1504	M2053	992-14-04-01	\$ 60,000	(Complete)
1140.1504	R18179	509-10-41-50	\$ 144,000	(Complete)
1140.1504	A2332	023-10-03-01	\$ 50,000	(Complete)
1100.2501	M2086	992-16-03-06	<u>\$ 955,000</u>	(Partial)
			\$1,544,373	

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## PART I - THE SCHEDULE

SECTION B - SUPPLIES OR SERVICES AND PRICE/COSTS

## B.1 SCOPE OF WORK

A. The Contractor shall, except as otherwise specified herein, furnish all personnel, facilities, services, equipment, supplies, and materials necessary for performance of Scientific Computing Operations, Maintenance, and Communications Services as described in Exhibit A, Statement of Work (SOW), dated July 27, 1993.

B. Specific detailed performance requirements within the Statement of Work for Section C.6, LaRC Distributed Computing and Data Reduction Support will be directed by the Government in accordance with the procedures outlined in G.8, Work Orders.

## B.2 LEVEL-OF-EFFORT

A. In performing work under Section C, Description/Specifications/Work Statement (excluding Section C.4) the Contractor is obligated to provide 641,370 direct productive labor hours as defined below.

B. Direct productive level-of-effort hours are defined as those hours actually worked (including overtime) by personnel in the performance of the work set forth in Section C, except for C.4, Central Scientific Computing Complex (CSCC) Systems Maintenance. First-line supervision of the work performed in support of the Statement of Work is considered to be direct and all corresponding hours are considered as direct productive level-of-effort hours.

C. Productive non-level-of-effort hours are defined as those hours expended by personnel such as the Contract Manager, Deputy Contract Manager, Technical Managers, financial, clerical, and procurement personnel in managing or administering the work.

D. All paid absences (vacation, holidays, sick, etc.) are considered non-productive hours.

## B.3 ESTIMATED COST, AWARD FEE AND FIXED FEE

A. The estimated cost of this contract is \$28,045,000, exclusive of the award fee of \$1,780,000 and fixed fee\* of \$0. The total estimated cost, award fee, and fixed fee is \$29,825,000.

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

<u>Period</u>	<u>Available Award Fee</u>
9/1/93 - 2/28/94	\$445,000
3/1/94 - 8/31/94	\$445,000
9/1/94 - 2/28/95	\$445,000
3/1/95 - 8/31/95	\$445,000

\*A fixed fee amount will be inserted if the Government exercises any of the one-month options to extend the period of performance as set forth in Section H.

C. The cost for CSCC Systems Maintenance Services is included in the estimated cost set forth above. The monthly charge for performing systems maintenance services are set forth in Appendix A of Exhibit A. The total contract cost for systems maintenance reflected in Appendix A is

#### B.4 SPECIFIED OTHER DIRECT COSTS

The estimated cost of this contract includes the following estimates for material, equipment, software, travel, training, and fixed-price specialized services such as commercialized available graphics and publications, and board repair, required for performance of the Statement of Work except Section C.4.

<u>Initial Period</u>	<u>First Option</u>	<u>Second Option</u>	<u>Third Option</u>	<u>Fourth Option</u>	<u>Fifth Option</u>	<u>Sixth Option</u>	<u>Seventh Option</u>	<u>Eighth Option</u>
\$4,450,000	\$5,224,000	\$8,599,000	\$255,700	\$255,700	\$255,700	\$255,700	\$255,700	\$255,700

These costs are the Government's best estimate of what the actuals will be. There will be no adjustment in the fee(s) of the contract should the actuals be different than these estimates.

#### B.5 CONTRACT FUNDING (NASA 18-52.232-81) (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 \$1,452,215 and covers the following estimated period of performance: July 21, 1993, through September 30, 1993.

(b) An additional amount of \$92,158 is obligated under this contract for payment of fee.

#### B.6 ADMINISTRATION OF CONTRACT FUNDING (LaRC 52.232-100) (OCT 1992)

A. The Contractor agrees that all future incremental funding shall be accomplished by Administrative Change Modification and that the funding procedure shall in no way change the Contractor's notification obligations as set forth in the "Limitation of Funds" clause.

B. In addition to the requirements of the "Limitation of Funds" clause, the Contractor shall notify the Contracting Officer in writing if, at any time, the Contractor has reason to believe that the total cost to the Government for the complete performance of this contract will be greater or substantially less than the then total estimated cost of the contract. Such notification shall give a revised estimate of the total cost for the performance of this contract.



SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

## C.1 STATEMENT OF WORK

The Contractor shall perform the effort specified in Exhibit A, Statement of Work entitled, "Scientific Computing Operations, Maintenance, and Communications Services."

SECTION D - PACKAGING AND MARKING

D.1 There are no clauses in this section.

SECTION E - INSPECTION AND ACCEPTANCEE.1 INSPECTION OF SUPPLIES - COST-REIMBURSEMENT (FAR 52.246-3)  
(APR 1984)

(a) Definitions. "Contractor's managerial personnel," as used in this clause, means any of the Contractor's directors, officers, managers, superintendents, or equivalent representatives who have supervision or direction of--

- (1) All or substantially all of the Contractor's business;
- (2) All or substantially all of the Contractor's operation at a plant or separate location at which the contract is being performed; or
- (3) A separate and complete major industrial operation connected with performing this contract.

"Supplies," as used in this clause, includes but is not limited to raw materials, components, intermediate assemblies, end products, lots of supplies, and, when the contract does not include the Warranty of Data clause, data.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the supplies, fabricating methods, and special tooling under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.

(c) The Government has the right to inspect and test the contract supplies, to the extent practicable at all places and times, including the period of manufacture, and in any event before acceptance. The Government may also inspect the plant or plants of the Contractor or any subcontractor engaged in the contract performance. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If the Government performs inspection or test on the premises of the Contractor or a subcontractor, the Contractor shall furnish and shall require subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

(e) Unless otherwise specified in the contract, the Government shall accept supplies as promptly as practicable after delivery, and supplies shall be deemed accepted 60 days after delivery, unless accepted earlier.

(f) At any time during contract performance, but no later than 6 months (or such other time as may be specified in the contract) after acceptance of the supplies to be delivered under the contract, the Government may require the Contractor to replace or correct any supplies that are nonconforming at time of delivery. Supplies are nonconforming when they are defective in material or workmanship or are otherwise not in conformity with contract requirements. Except as otherwise provided in paragraph (h) below, the cost of replacement or correction shall be

included in allowable cost, determined as provided in the Allowable Cost and Payment clause, but no additional fee shall be paid. The Contractor shall not tender for acceptance supplies required to be replaced or corrected without disclosing the former requirement for replacement or correction, and, when required, shall disclose the corrective action taken.

(g) (1) If the Contractor fails to proceed with reasonable promptness to perform required replacement or correction, the Government may--

(i) By contract or otherwise, perform the replacement or correction and charge to the Contractor any increased cost or make an equitable reduction in any fixed fee paid or payable under the contract;

(ii) Require delivery of undelivered supplies at an equitable reduction in any fixed fee paid or payable under the contract; or

(iii) Terminate the contract for default.

(2) Failure to agree on the amount of increased cost to be charged to the Contractor or to the reduction in the fixed fee shall be a dispute.

(h) Notwithstanding paragraphs (f) and (g) above, the Government may at any time require the Contractor to correct or replace, without cost to the Government, nonconforming supplies, if the nonconformances are due to (1) fraud, lack of good faith, or willful misconduct on the part of the Contractor's managerial personnel or (2) the conduct of one or more of the Contractor's employees selected or retained by the Contractor after any of the Contractor's managerial personnel has reasonable grounds to believe that the employee is habitually careless or unqualified.

(i) This clause applies in the same manner to corrected or replacement supplies as to supplies originally delivered.

(j) The Contractor shall have no obligation or liability under this contract to replace supplies that were nonconforming at the time of delivery, except as provided in this clause or as may be otherwise provided in the contract.

(k) Except as otherwise specified in the contract, the Contractor's obligation to correct or replace Government-furnished property shall be governed by the clause pertaining to Government property.

## E.2 INSPECTION OF SERVICES - COST-REIMBURSEMENT (FAR 52.246-5) (APR 1984)

(a) Definition. "Services," as used in this clause, includes services performed, workmanship, and material furnished or used in performing services.

(b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.

(c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all places and times during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.

(d) If any of the services performed do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, for no additional fee. When the defects in services cannot be corrected by reperformance, the Government may (1) require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and (2) reduce any fee payable under the contract to reflect the reduced value of the services performed.

(e) If the Contractor fails to promptly perform the services again or take the action necessary to ensure future performance in conformity with contract requirements, the Government may (1) by contract or otherwise, perform the services and reduce any fee payable by an amount that is equitable under the circumstances or (2) terminate the contract for default.

E.3 MATERIAL INSPECTION AND RECEIVING REPORT (NASA 18-52.246-72)  
(OCT 1988)

(a) At the time of each delivery under this contract, the Contractor shall furnish to the Government a Material Inspection and Receiving Report (DD Form 250 series) prepared in three copies, an original and two copies.

(b) The Contractor shall prepare the DD Form 250 in accordance with NASA FAR Supplement 18-46.672-1. The Contractor shall enclose the copies of the DD Form 250 in the package or seal them in a waterproof envelope which shall be securely attached to the exterior of the package in the most protected location.

(c) When more than one package is involved in a shipment, the Contractor shall list on the DD Form 250, as additional information, the quantity of packages and the package numbers. The Contractor shall forward the DD Form 250 with the lowest numbered package of the shipment and print the words "CONTAINS DD FORM 250" on the package.

E.4 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 STOP-WORK ORDER (FAR 52.212-13) (AUG 1989) ALTERNATE I (APR 1984)

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall

either -

(1) Cancel the stop-work order; or  
(2) Terminate the work covered by the order as provided in the Termination clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of

the contract that may be affected, and the contract shall be modified, in writing, accordingly, if -

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

F.2 F.O.B. DESTINATION, WITHIN CONSIGNEE'S PREMISES (FAR 52.247-35)  
(APR 1984) (APPLICABLE ONLY TO CSCC SYSTEMS MAINTENANCE, SECTION C.4 OF THE SOW)

(a) The term "F.O.B. destination, within consignee's premises," as used in this clause, means free of expense to the Government delivered and laid down within the doors of the consignee's premises, including delivery to specific rooms within a building if so specified.

(b) The Contractor shall -

(1) (i) Pack and mark the shipment to comply with contract specifications; or

(ii) In the absence of specifications, prepare the shipment in conformance with carrier requirements;

(2) Prepare and distribute commercial bills of lading;

(3) Deliver the shipment in good order and condition to the point of delivery specified in the contract;

(4) Be responsible for any loss of and/or damage to the goods occurring before receipt of the shipment by the consignee at the delivery point specified in the contract;

(5) Furnish a delivery schedule and designate the mode of delivering carrier; and

(6) Pay and bear all charges to the specified point of delivery.

F.3 PERIOD OF PERFORMANCE (NASA 18-52.212-74) (DEC 1988)

The period of performance of this contract shall be September 1, 1993, through August 31, 1995.

F.4 PLACE OF DELIVERY

Delivery of all items hereunder shall be f.o.b. Langley Research Center.

F.5 PLACES OF PERFORMANCE (LaRC 52.212-98) (OCT 1992)

The places of performance shall be the Contractor's facility and NASA Langley Research Center (LaRC), Hampton, Virginia 23681-0001.

## F.6 REPORTS AND DOCUMENTATION DELIVERY

The Contractor shall provide to the Government all reports and items of documentation as required by the SOW, Section I (Contract Clauses), and Exhibit B (Contract Documentation Requirements).

## SECTION G - CONTRACT ADMINISTRATION DATA

### G.1 REPORT ON NASA SUBCONTRACTS (NASA 18-52.204-70) (NOV 1992)

(a) The Contractor shall submit information on NASA Form 667 to the National Aeronautics and Space Administration (Code HM), Washington, DC 20546, substantially as follows with respect to each subcontract or subcontract modification exceeding \$25,000 within 10 working days after its execution:

- (1) The name and address of the prime Contractor and the NASA prime contract number.
- (2) The name and address of the subcontractor.
- (3) Whether the subcontractor is a large or small business concern and/or a minority business concern.
- (4) Whether the type of effort being performed involves research and development.
- (5) A brief description of the subcontract work.
- (6) The amount of the subcontract.
- (7) The principal location where the subcontract work is to be performed, if known.

(b) The Contractor and its subcontractors shall submit negative reports annually, if applicable, on each prime contract and first-tier subcontract subject to this reporting requirement. These negative reports shall be submitted not later than October 31 for the 12-month period ending September 30th of each year. The negative reporting shall be continued until the contract or subcontract has been physically completed and the National Aeronautics and Space Administration (Code HM), Washington, DC 20546, so notified by the Contractor or subcontractor.

(c) "Subcontract," as used in this clause, means procurement in excess of \$25,000 by the Contractor or first-tier subcontractor of articles, materials, or services for performing this contract (including facility leases), except purchases, regardless of amount, of stock items, materials, or services that cannot be specifically identified with this contract.

(d) "Research and development," as used in this clause, means basic and applied research, and design and development of prototypes and processes to (1) pursue a planned search for new knowledge, with or without reference to a specific application, (2) apply existing knowledge in the creation of new products or processes, or (3) apply existing knowledge in the improvement or modification of present products and processes. It excludes subcontracts for the purchase of standard commercial items and services.

(e) The Contractor shall --

(1) Insert the provisions of paragraphs (a), (b), (c), and (d) of this clause in each subcontract over \$100,000;

(2) Instruct its subcontractors to submit their reports directly to the National Aeronautics and Space Administration (Code HM), Washington, DC 20546; and

(3) Provide its subcontractors with the number of the NASA prime contract.

## G.2 PAYMENT OF FIXED FEE (NASA 18-52.216-75) (DEC 1988)

The fixed fee shall be paid in monthly installments based upon the percentage of completion of work as determined by the Contracting Officer.

## G.3 AWARD FEE (NASA 18-52.216-76) (DEC 1991)

(a) The Government shall pay the Contractor for performing this contract such base fee, if any, and such additional fee as may be awarded, as provided in the Schedule.

(b) Payment of the base fee and award fee shall be made as specified in the Schedule; provided that, after payment of 85 percent of the base fee and potential award fee, the Contracting Officer may withhold further payment of the base fee and 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 base fee and potential award fee or \$100,000, whichever is less.

(c) Award fee determinations made by the Government under this contract are not subject to the Disputes clause.

## G.4 DESIGNATION OF NEW TECHNOLOGY REPRESENTATIVE AND PATENT REPRESENTATIVE (NASA 18-52.227-72) (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>	<u>Office Code</u>	<u>Address (including zip code)</u>
New Technology Representative	200	NASA, Langley Research Center Hampton, VA 23681-0001
Patent Representative	143	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.5 ACQUISITION OF CENTRALLY REPORTABLE EQUIPMENT (NASA 18-52.245-70)  
(MAR 1989)

(a) "Centrally reportable equipment," as used in this clause, means plant equipment, special test equipment (including components), special tooling and non-flight space property (including ground support equipment) (1) generally commercially available and used as a separate item or as a component of a system, (2) having an acquisition cost of \$1,000 or more (unless a lower threshold is specified elsewhere in this contract), and (3) is identifiable by a manufacturer and model number.

(b) (1) Before acquiring (including acquiring by fabrication) any item of centrally reportable equipment under this contract (unless for incorporation into flight-qualified or flight-monitoring deliverable end items), the Contractor shall provide to the Contracting Officer, at the earliest possible date, a description of the item sufficiently detailed to enable screening of existing Government inventories. (2) For this purpose, the Contractor shall (i) prepare a separate DD Form 1419, DOD Industrial Plant Equipment Requisition for each item of centrally reportable equipment to be acquired and (ii) forward it through the Contracting Officer to the NASA Equipment Management System (NEMS) Coordinator at the cognizant NASA installation at least 30 days in advance of the date the Contractor intends to acquire or begin fabricating the item. If a certificate of nonavailability is not received within that period, the Contractor may proceed to acquire the item, subject to any other applicable provisions of this contract. Instructions for preparing the DD Form 1419 are contained in NASA FAR Supplement 18-45.7103. The same data may be provided in an alternate format when requesting other than Defense Industrial Plant Equipment Center (DIPEC) controlled items. (3) Upon receiving the item on the DD Form 1419 (regardless of whether it is Contractor-acquired or Government-furnished), the Contractor shall prepare and submit a DD Form 1342 or equivalent data, in accordance with NASA FAR Supplement 18-45.505-670.

G.6 FINANCIAL REPORTING OF GOVERNMENT-OWNED/CONTRACTOR-HELD PROPERTY  
(NASA 18-52.245-73) (MAR 1989)

(a) The Contractor shall prepare and submit annually a NASA Form 1018, Report of Government-Owned/Contractor-Held Property, in accordance with 18-45.505-14 and the instructions on the form and in Section 18-45.7101 of the NASA FAR Supplement, except that the reporting of space hardware shall be required only as directed in clause 18-52.245-78, Space Hardware Reporting, if applicable.

(b) If administration of this contract has been delegated to the Department of Defense, the original and three copies of NASA Form 1018 shall be submitted through the DOD Property Administrator to the NASA office identified below. If the contract is administered by NASA, the forms shall be submitted directly to the following NASA office:

NASA, Langley Research Center  
Attn: Industrial Property Office, M/S 377  
Hampton, VA 23681-0001

(c) The annual reporting period shall be from July 1 of each year to June 30 of the following year.

(d) The Contractor agrees to insert the reporting requirement in all first-tier subcontracts, except that the requirement shall provide for the submission of the

subcontractors' reports to the Contractor, not to the Government. The Contractor shall require the subcontractors' reports to be submitted in sufficient time to meet the reporting date in paragraph (c) above.

(e) The Contractor's report shall consist of a consolidation of the subcontractors' reports and the Contractor's own report.

G.7 SUBMISSION OF VOUCHERS FOR PAYMENT (NASA 18-52.216-87) (DEC 1988)

(a) Public vouchers for payment of costs and fee shall include a reference to this contract NAS1-20048 and be forwarded to:

DCAA, Mid-Atlantic Region, Reston Branch  
171 Elden Street, Suite 300  
Herndon, VA 22070

This is the designated billing office for cost and fee vouchers for purposes of the Prompt Payment clause of this contract. NOTE: The Contractor shall specify the monthly charge for each CLIN in Appendix A of Exhibit A and shall provide the certification required by H.18.

(b) The Contractor shall prepare vouchers as follows:

(1) 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 Contracting Officer Technical Representative.

(c) Public vouchers for payment of fee shall be prepared similarly and be forwarded to:

Contracting Officer, MS 126  
NASA LaRC  
Hampton, VA 23681-0001

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

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



G.8 WORK ORDERS (LaRC 52.212-101) (OCT 1991)

A. The work to be performed within Section C.6, LaRC Distributed Computing and Data Reduction Support of the Statement of Work, will be more specifically directed by means of written work orders issued by the Government, containing the following information:

1. Date
2. Job order/work order number
3. Originator
4. Description of work, specifications and/or end item
5. Required schedule
6. Manpower estimate
- (\* ) 7. Material cost estimate
- (\* ) 8. Government-furnished material
- (\* ) 9. Applicable special instructions

(\* ) To be provided at the option of the Government.

B. Two copies of each work order will be furnished to the Contractor. One shall be retained by the Contractor and one shall be returned to the Contracting Officer's Technical Representative upon completion of the work specified. Completed work orders shall contain, 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.

C. The Contractor shall furnish a control and reporting system capable of accurately obtaining on a weekly basis actual man-hours, labor costs, and material costs associated with each LaRC work order number.

D. If any work order 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 level of effort, 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.9 AWARD FEE EVALUATIONS (LaRC 52.216-92) (JUN 1990)

A. The Contractor's performance hereunder shall be evaluated each period by an Evaluation Board in accordance with an established evaluation plan. A copy of this plan shall be furnished to the Contractor within 60 days of the effective date of this contract. This plan may be modified by the Government and a copy of

any modification will be provided to the Contractor. The Board shall review the Contractor's performance for each period in the following areas:

- Continuous Improvement
- Technical Performance
- Management
- Cost
- Safety

B. The findings of the Board shall be reported to the Fee Determination Official (a cognizant individual at the program director level or higher of LaRC management) who will determine to what extent the Contractor's performance for the preceding award fee evaluation period warrants payment of some portion of the available award fee specified in Section B.3. In no event will any unawarded portion of fee for any evaluation period become available for award in subsequent periods.

C. The Contractor will be notified of the Fee Determination Official's determination of award fee by the Contracting Officer in a Notice of Award Fee, and such decision shall be binding on both parties and not subject to the Section I clause entitled "Disputes - Alternate I."

D. In the event this contract is terminated prior to a regularly scheduled award fee determination, the fee to be paid to the Contractor shall be an appropriate portion of any available award fee, as may be determined by the Fee Determination Official.

E. The Contractor may submit evaluation plan recommendations pertinent to evaluation criteria, methods of measurement, definitions, ground rules, relative importance, etc., to the Contracting Officer. Such recommendations may be for the initial evaluation period or for subsequent periods. Recommendations for the initial period should be received by the Contracting Officer no later than the effective date of the contract and for subsequent periods no later than thirty (30) days prior to the beginning of the period.

#### G.10 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 (804) 864-2462.

B. "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 Officer for 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.1 RIGHTS TO PROPOSAL DATA (TECHNICAL) (FAR 52.227-23) (JUN 1987)

Except for data contained on pages NONE, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing thereon, the Government shall have unlimited rights (as defined in the "Rights in Data - General" clause contained in this contract) in and to the technical data contained in the proposal dated May 26, 1993, upon which this contract is based.

##### H.2 KEY PERSONNEL AND FACILITIES (NASA 18-52.235-71) (MAR 1989)

(a) The personnel and/or facilities listed below (or specified in the Contract Schedule) are considered essential to the work being performed under this contract. Before removing, replacing, or diverting any of the listed or specified personnel or facilities, the Contractor shall (1) notify the Contracting Officer reasonably in advance and (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this contract.

(b) The Contractor shall make no diversion without the Contracting Officer's written consent; provided, that the Contracting Officer may ratify in writing the proposed change, and that ratification shall constitute the Contracting Officer's consent required by this clause.

(c) The list of personnel and/or facilities (shown below or as specified in the Contract Schedule) may, with the consent of the contracting parties, be amended from time to time during the course of the contract to add or delete personnel and/or facilities.

Contract Manager  
 Technical Manager  
 Technical Manager  
 Technical Manager  
 Technical Manager  
 Technical Manager

H.3 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (FAR 52.222-42)  
(MAY 1989)

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

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

<u>Employee Class</u>	<u>Monetary Wage</u>
Computer Operator I	\$ 7.85
Computer Operator II	\$ 8.79
Computer Operator III	\$ 9.80
Data Specialist	\$ 7.85
Documentation Specialist	\$ 7.85
Communications Specialist	\$ 8.79
Communications Systems Specialist I	\$13.32
Communications Systems Specialist II	\$14.66
Communications Systems Specialist III	\$16.11
Electronics Technician II	\$11.63
Electronics Technician III	\$13.32
Requirements Specialist	\$10.89

FRINGE BENEFITS

- Annual Leave - Receives 13 days paid leave for service up to 3 years; 20 days for 3 to 15 years service; and 26 days for 15 years service or over.
- Sick Leave - Receives 13 days paid leave per year.
- Holidays - Receives 10 paid holidays per year.
- Health Insurance - Government pays up to 75% of health insurance.
- Group Life Insurance - Government pays one-third of basic life insurance premium under the Federal Employees Group Life Insurance (FEGLI). Government also offers an additional term-life insurance (National Employees Benefits Association (NEBA)), for which employees pay the full premium.
- Retirement - The Federal Government provides three retirement plans identified as the Civil Service Retirement System (CSRS), the Federal Employees Retirement System (FERS), and 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 12.9% of the employees' base pay towards a basic benefit plan, 6.2% to Social Security, 1.45% towards Medicare, and 1% (plus matching contributions of up to 4%

of basic pay depending on employees' contributions) to a thrift savings plan. Under the CSRS Offset, the Government contributes 0.8% of the employees' base pay towards the retirement benefit, 6.2% to Social Security, and 1.45% towards Medicare.

Part-time Federal employees receive pro rata annual leave, sick leave, holiday leave, health insurance, and group life insurance benefits based on the number of hours worked.

#### H.4 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 facility and at other location(s) as may be approved by the Contracting Officer. Under the FAR 52.245 Government Property clause of this contract, the Contractor is accountable for the identified property.

#### H.5 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.

Authorized for work performed under the SOW except Section C.4, Systems Maintenance:

(a) Office space, work area space, communication hardware storage areas, and utilities. The Contractor shall use Government telephones for official purposes only.

(b) General- and special-purpose equipment, including office furniture.

(1) 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 D. The Government retains accountability for this property under the Installation-Provided Government Property clause, regardless of its authorized location.

(2) If the Contractor acquires property as a direct cost under this contract, 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) The Contractor shall not bring on-site for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval. This restriction does not pertain to Contractor furnished vehicles.

(c) Reproduction services

(d) Hardware maintenance services on all Installation-Provided ADP equipment (terminals, personal computers, word processors) and on Government-furnished ADP equipment brought to LaRC for maintenance.

\*(e) Library service

\*(f) Emergency medical treatment, primarily first aid in nature, for injuries sustained while on duty at Langley Research Center

(g) Hearing examinations (for employees designated to work in high noise level areas)

\*(h) On-Center mail delivery service

\*(i) Cafeteria privileges for Contractor employees during normal operating hours.

(j) Moving and hauling for office moves, movement of large equipment, and delivery of supplies. Moving services shall be provided on-site, as approved by the Contracting Officer.

(k) Government material cards issued to permit authorized Contractor personnel to draw supplies from LaRC Stores; provided such withdrawals are approved by the Contracting Officer Technical Representative (COTR).

(l) Fuel, scheduled maintenance, parts and repairs (except those covered by manufacturer's warranty) for all Contractor-provided vehicles.

(m) Supplies from stores stock such as sheet metal, angle iron, tubing, wire, and plexiglass.

(n) Fabrication services requiring elaborate special tooling as available.

Authorized for work performed under Section C.4, Systems Maintenance, of the SOW:

(a) Maintenance work area of approximately 1,300 square feet including utilities. The Contractor shall use Government telephones for communication on LaRC.

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) NHB 4200.1, NASA Equipment Management Manual.
- (2) NHB 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.

\*Authorized for use by all Contractor personnel.

#### H.6 LIST OF GOVERNMENT-FURNISHED ITEMS

The items identified below are provided to the Contractor in performance of this contract, for use both on-site and off-site:

1. Magnetic tape, printer paper, and other data processing supplies.
2. Supplies from stores stock such as drafting, copier, graph paper, and other office supplies.
3. Publications and blank forms stocked by the installation.
4. Reference material which includes documentation covering changes and additions to the CSCC and its operating systems, equipment manuals, drawings, procedures, and other reference documents relating to the operation of the CSCC.

#### H.7 PROCUREMENT AUTHORITY (201-39.5202-3) (OCT 90 FIRMR)

This acquisition is being conducted under a specific acquisition delegation of GSA's exclusive procurement authority for FIP resources. The specific GSA DPA case number is KMA-92-0354.

#### H.8 CONTRACTOR EMPLOYEE'S SECURITY CLEARANCE (LaRC 52.204-90) (OCT 1992)

By virtue of their particular work assignment, certain Contractor employees, may be required to have a security clearance granted in accordance with DOD 5220.22M, "Department of Defense Industrial Security Manual for the Safeguarding of Classified Information (ISM)". 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.9 AUTOMATED INFORMATION SECURITY (AIS) PROGRAM/EMPLOYEE NATIONAL AGENCY CHECK (NAC) AND USER AGREEMENT EXECUTION (LaRC 52.239-90) (MAY 1991)

A. Work to be performed under this contract requires access to ADP equipment and processing areas. Therefore, the Contractor shall comply with the requirements of NASA's Automated Information Security Program. This program is separate and distinct from security programs for safeguarding classified information. Prior to performing any work in restricted-access computer rooms or accessing NASA ADPE (either remotely or on-site at LaRC), all Contractor employees must have a favorable NAC completed. The Contractor shall submit a properly executed NASA Form 531 (NF 531), Name Check Request, to the LaRC Security Officer, Mail Stop 182, for each Contractor employee who will work in restricted access computer rooms and/or access NASA ADPE. In addition, each such employee is required to be fingerprinted at the LaRC Badge and Pass Office, Building 1228, or by any authorized agency or department utilizing Fingerprint Card FD-258.

Approximately 75 days are required to complete the NAC after receipt of the NF 531 and FD-258. The NAC is not required if an employee has a Secret or higher clearance. When it is necessary for an employee to perform any work in restricted access computer rooms prior to completion of the NAC, the employee may be escorted while at the site by an individual who has a favorable NAC or a higher level of investigation favorably adjudicated, or a Secret or higher clearance, or as otherwise approved by the Security Officer. Employees may access NASA ADP equipment prior to completion of the NAC only as approved by the LaRC Security Officer on a case-by-case basis.

B. The Contractor shall insure that all Contractor personnel execute a user agreement, Form No. ACD N-865, Responsibilities of Users of the NASA/LaRC Central Scientific Computer Complex, and any other forms that may be required by the Government prior to having access to NASA ADP resources. Unauthorized access to and/or use of LaRC computing systems is a violation of law and punishable under the provisions of 18 USC 1029, 18 USC 1030, and other applicable statutes. For compliance with Center Computer security policy, the Contractor shall promptly notify the Contracting Officer's Technical Representative (COTR) when an authorized user employee no longer requires computer access.

#### H.10 OBSERVATION OF REGULATIONS AND IDENTIFICATION OF CONTRACTOR'S EMPLOYEES (LaRC 52.212-104) (MAR 1992)

A. Observation of Regulations--In performance of that part of the contract work which may be performed at Langley Research Center or other Government installation, the Contractor shall require its employees to observe the rules and regulations as prescribed by the authorities at Langley Research Center or other installation.

B. Identification Badges--At all times while on LaRC property, the Contractor shall require its employees, subcontractors and agents to wear badges which will be issued by the NASA 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.11 INCORPORATION OF SECTION K OF THE PROPOSAL BY REFERENCE

Pursuant to FAR 15.406-1(b), the completed Section K of the proposal dated May 26, 1993 is hereby incorporated herein by reference.

#### H.12 SUBCONTRACTING PLAN

The approved Contractor plan for subcontracting with small business and small disadvantaged business concerns is attached hereto as Exhibit E and is hereby made a part of this contract.



### H.13 EVIDENCE OF INSURANCE

The Contractor shall submit evidence of the insurance coverage, required by the NASA Clause 18-52.228-75 in Section I entitled "Minimum Insurance Coverage" (i.e., a Certificate of Insurance or other confirmation), to the Contracting Officer prior to performing under this contract. 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.

### H.14 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 nonapplicable 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.15 WAGE DETERMINATIONS AND FRINGE BENEFITS (LaRC 52.237-90) (NOV 1990)

The Register of Wage Determinations and Fringe Benefits, Number 78-1030, Rev. 23, Exhibit F, dated August 8, 1992, lists the wage rate and fringe benefits for designated labor classifications which shall be the minimum paid under this contract. See Exhibit F for a copy of this wage determination. This determination constitutes the "attachment" as referred to in paragraph (a), Compensation, of the Section I clause entitled "Service Contract Act of 1965."

### H.16 ADVANCE AGREEMENT ON INDIRECT RATES

A. Notwithstanding the provisions of the Section I clause entitled "Allowable Cost and Payment," the Contractor will be reimbursed at the indirect ceiling rate specified below or the actual rate, whichever is less, for each of the Contractor's fiscal years applicable to this contract. The Contractor's fiscal year is \_\_\_\_\_ 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.

Indirect  
Cost Pool

Ceiling\*  
Percentage

Allocation Base

B. The above rate ceiling is predicated upon the base listed above and the accounting practices and accounting system in effect on August 17, 1993. If the Contractor changes its accounting practices or accounting system in any way, the Contractor will immediately 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.17 ADVANCE AGREEMENT ON CERTAIN COST ELEMENTS

A. The Contractor shall be entitled to reimbursement for phase-in costs, incurred on or after July 21, 1993, in an amount not to exceed — that, if incurred after this contract had been entered into, would have been reimbursable under this contract.

B.

Position

Ceiling Level

C. In accordance with the Changes Clause of this contract, the Government may change Exhibit A, Appendix A, to add or delete items or change the specified maintenance status for any item.

#### H.18 ADVANCE AGREEMENT ON SYSTEMS MAINTENANCE PRICES

The monthly charges for performing systems maintenance services in accordance with Section C.4, CSCC Systems Maintenance, of the SOW are set forth in Appendix A of Exhibit A. These monthly charges include all costs of providing the systems maintenance for the CLINs listed, except the Prime Contractor's G&A and fee.

The monthly charge for each Contract Line Item Number (CLIN) includes coverage for the specified status (hours of coverage and response time) as defined in C.4.1 of the SOW. The Basic Monthly Maintenance Charge (BMMC) for hardware and environmental control systems set forth in Appendix A of Exhibit A is the monthly maintenance charge for on-site (LaRC) coverage with 10 minutes response time from 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding Government Holidays; response time for all other times shall not exceed 2 hours. The monthly charge and BMMC for each CLIN is all-inclusive, except for the Prime Contractor's G&A and fee.

The Government may require a change in maintenance status for hardware and environmental control systems CLINs over the contract term. In the event of a change, the monthly charge for a CLIN may be modified by multiplying the BMMC by the percentages shown in the following conversion schedule:

	A	B	C	D	E
STATUS					
1					
2					
3					
4					
5					

The Contractor agrees that the actual monthly charge for each CLIN shall not exceed the monthly charge set forth in Appendix A, the current General Services Administration (GSA) Schedule contract price (if applicable), or the current commercial price list, whichever is lower. The Contractor shall furnish with each invoice which includes cost for systems maintenance a statement certifying that the lowest of the above three prices has been charged.

Notwithstanding the provisions of the Section I clause entitled "Allowable Cost and Payment," the Contractor shall not be reimbursed for any costs exceeding the lowest applicable price noted above. Any costs that are not reimbursed due to the

ceiling shall be deemed unallowable costs. Any burden applicable to costs which exceed these ceilings will also be unallowable.

#### H.19 OPTIONS

##### A. Priced Options/Extended Services

Pursuant to the Section I clause entitled "Option to Extend the Term of the Contract (MAR 1989)," and FAR 37.111, the Contractor hereby grants to the Government options to extend the term of the contract for one two year period, one three year period, and six one-month periods. The first and second options periods are to be exercisable by issuance of a unilateral modification no later than 30 calendar days prior to the expiration of the contract. The third through eighth option periods are to be exercisable by issuance of a unilateral modification no later than one calendar day prior to the expiration of the contract. Upon exercise of such option(s) by the Government, the following items will be increased by the amounts specified below for each option period.

<u>Item</u>	<u>First Option Period</u>	<u>Second Option Period</u>	<u>Third Option Period</u>	<u>Fourth Option Period</u>	<u>Fifth Option Period</u>	<u>Sixth Option Period</u>	<u>Seventh Option Period</u>	<u>Eighth Option Period</u>
Period of Performance (Ref. F.3) Level	24 months	36 months	1 month	1 month	1 month	1 month	1 month	1 month
of Effort (Ref. B.2)	647,500 hours	971,250 hours	26,563 hours	26,563 hours	26,563 hours	26,563 hours	26,563 hours	26,563 hours
Estimated Cost (Ref. B.3)	\$31,041,000	\$49,994,000	\$1,457,000	\$1,457,000	\$1,457,000	\$1,457,000	\$1,457,000	\$1,457,000
Award Fee (Ref. B.3)	\$ 1,988,000	\$ 3,207,000						
Fixed Fee (Ref. B.3)			\$ 86,000	\$ 86,000	\$ 86,000	\$ 86,000	\$ 86,000	\$ 86,000
Systems Maintenance (Ref. B.3.C)								
	<u>First Option Period</u>	<u>Second Option Period</u>						
Award Fee Availability (Ref. B.3)								
9/1/95 - 2/29/96	\$497,000							

3/1/96 - 8/31/96	\$497,000
9/1/96 - 2/28/97	\$497,000
3/1/97 - 8/31/97	\$497,000
9/1/97 - 2/28/98	\$534,500
3/1/98 - 8/31/98	\$534,500
9/1/98 - 2/28/99	\$534,500
3/1/99 - 8/31/99	\$534,500
9/1/99 - 2/29/2000	\$534,500
3/1/2000 - 8/31/2000	\$534,500

#### B. PRICED OPTION - ADDITIONAL LEVEL OF EFFORT

1. The Contractor hereby grants to the Government options to increase the contract level of effort by the amounts specified below for each period. The Government's options may be exercised once or multiple times in minimum amounts of 1,875 hours of effort. Such options are to be exercisable by issuance of a unilateral modification.

	<u>Level of Effort (Ref. B.2)</u>
Initial Contract Period	178,125 hours
First Option Period	288,750 hours
Second Option Period	660,000 hours
Third Option Period	20,000 hours
Fourth Option Period	20,000 hours

Fifth Option Period	20,000 hours
Sixth Option Period	20,000 hours
Seventh Option Period	20,000 hours
Eighth Option Period	20,000 hours

2. When any increment of the above option is exercised, the contract cost and fee set forth in B.3, Estimated Cost, Award Fee and Fixed Fee will be increased using the appropriate rates set forth below:

		<u>Rate Per Hour</u>
Initial Period	Cost	\$19.02
	Award Fee	\$ 1.24
First Option	Cost	\$20.47
	Award Fee	\$ 1.33
Second Option	Cost	\$21.84
	Award Fee	\$ 1.42
Third Option	Cost	\$22.55
	Fixed Fee	\$ 1.35
Fourth Option	Cost	\$22.55
	Fixed Fee	\$ 1.35
Fifth Option	Cost	\$22.55
	Fixed Fee	\$ 1.35
Sixth Option	Cost	\$22.55
	Fixed Fee	\$ 1.35
Seventh Option	Cost	\$22.55
	Fixed Fee	\$ 1.35
Eighth Option	Cost	\$22.55
	Fixed Fee	\$ 1.35

3. Increases in the award fee will be allocated to the applicable award fee schedule period.

## H.20 SYSTEMS MAINTENANCE PRICE POOL FOR SECTION C.4 OF THE STATEMENT OF WORK

In accordance with the Changes clause of this contract the Government may change Exhibit A, Appendix A, to add or delete items or change the specified maintenance status for any item. In order to effect these changes, estimated increases have been included in the GSA Delegation of Procurement (DPA) Authority (Ref. H.7).

The available pool for these changes is \$35,000,000 for seven and one half years.

## H.21 PENSION PORTABILITY

In order for pension costs attributable to Prime Contractor employees assigned to this contract to be allowable costs under this contract, the plans covering such employees must:

- (a) Comply with all applicable Government laws and regulations;
- (b) Be a defined contribution plan, or a multiparty defined benefit plan operated under a collective bargaining agreement where the plan follows the employee, not the employer;
- (c) Provide for 100 percent employee vesting after no more than two years of continuous employment with the Prime Contractor; and
- (d) Not be modified, terminated, or a new plan adopted without the prior written approval of the cognizant NASA Contracting Officer.

## PART II - CONTRACT CLAUSES

### SECTION I - CONTRACT CLAUSES

#### I.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

<u>CLAUSE NUMBER</u>	<u>TITLE AND DATE</u>
52.202-1	Definitions (SEP 1991)
52.203-1	Officials Not to Benefit (APR 1984)
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 1985)
52.203-7	Anti-Kickback Procedures (OCT 1988)
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity (SEP 1990)
52.204-2	Security Requirements (APR 1984)

52.209-6 Protecting the Government's Interest when Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (NOV 1992)

52.210-5 New Material (APR 1984)

52.212-8 Defense Priority and Allocation Requirements (SEP 1990)

52.215-1 Examination of Records by Comptroller General (FEB 1993)

52.215-2 Audit - Negotiation (FEB 1993)

52.215-22 Price Reduction for Defective Cost or Pricing Data (JAN 1991)

52.215-24 Subcontractor Cost or Pricing Data (DEC 1991)

52.215-27 Termination of Defined Benefit Pension Plans (SEP 1989)

52.215-31 Waiver of Facilities Capital Cost of Money (SEP 1987)

52.215-33 Order of Precedence (JAN 1986)

52.215-39 Reversion or Adjustment of Plans for Postretirement Benefits Other Than Pensions (JUL 1991)

52.216-7 Allowable Cost and Payment (JUL 1991)

52.216-8 Fixed Fee (APR 1984)

52.219-8 Utilization of Small Business Concerns and Small Disadvantaged Business Concerns (FEB 1990)

52.219-9 Small Business and Small Disadvantaged Business Subcontracting Plan (JAN 1991)

52.219-13 Utilization of Women-Owned Small Businesses (AUG 1986)

52.219-16 Liquidated Damages - Small Business Subcontracting Plan (AUG 1989)

52.220-3 Utilization of Labor Surplus Area Concerns (APR 1984)

52.220-4 Labor Surplus Area Subcontracting Program (APR 1984)

52.222-1 Notice to the Government of Labor Disputes (APR 1984)

52.222-3 Convict Labor (APR 1984)

52.222-26 Equal Opportunity (APR 1984)

52.222-28 Equal Opportunity Preaward Clearance of Subcontracts (APR 1984)

52.222-35 Affirmative Action for Special Disabled and Vietnam Era Veterans (APR 1984)

52.222-36 Affirmative Action for Handicapped Workers (APR 1984)

52.223-2 Clean Air and Water (APR 1984)

52.225-3 Buy American Act - Supplies (JAN 1989)

52.225-11 Restrictions on Certain Foreign Purchases (APR 1991)

52.227-1 Authorization and Consent (APR 1984)

52.227-2 Notice and Assistance Regarding Patent and Copyright Infringement (APR 1984)

52.227-14 Rights in Data - General (JUN 1987) -- as modified by NASA FAR Supplement 18-52.227-14

52.227-19 Commercial Computer Software - Restricted Rights (JUN 1987)-- as modified by 18-52.227-19

52.228-7 Insurance - Liability to Third Persons (APR 1984)

52.230-5 Administration of Cost Accounting Standards (AUG 1992)

52.232-9 Limitation on Withholding of Payments (APR 1984)

52.232-17 Interest (JAN 1991)

52.232-22 Limitation of Funds (APR 1984)--as modified by NASA FAR Supplement 18-32.705-2

52.232-23 Assignment of Claims (JAN 1986)

52.232-28 Electronic Funds Transfer Payment Methods (APR 1989)--as modified by NASA FAR Supplement 18-32.908

52.233-1 Disputes (DEC 1991) Alternate I (DEC 1991)



52.233-3	Protest After Award (AUG 1989) Alternate I (JUN 1985)
52.237-2	Protection of Government Buildings, Equipment and Vegetation (APR 1984)
52.237-3	Continuity of Services (JAN 1991)
52.242-1	Notice of Intent to Disallow Costs (APR 1984)
52.243-2	Changes - Cost-Reimbursement (AUG 1987) Alternate II (APR 1984)
52.244-2	Subcontracts (Cost-Reimbursement and Letter Contracts) (JUL 1985) Alternate I (APR 1985)
52.244-5	Competition in Subcontracting (APR 1984)
52.245-5	Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts) (JAN 1986)
52.246-25	Limitation of Liability - Services (APR 1984)
52.248-1	Value Engineering (MAR 1989)
52.249-6	Termination (Cost-Reimbursement) (MAY 1986)
52.249-14	Excusable Delays (APR 1984)
52.251-1	Government Supply Sources (APR 1984)
52.252-6	Authorized Deviations in Clauses (APR 1984)
52.253-1	Computer Generated Forms (JAN 1991)

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

<u>CLAUSE NUMBER</u>	<u>TITLE AND DATE</u>
18-52.204-71	NASA Contractor Financial Management Reporting (DEC 1988)
18-52.219-74	Use of Rural Area Small Businesses (SEP 1990)
18-52.223-70	Safety and Health (DEC 1988)
18-52.227-70	New Technology (APR 1988)
18-52.227-71	Requests for Waiver of Rights to Inventions (APR 1984)
18-52.237-70	Emergency Evacuation Procedures (DEC 1988)
18-52.242-72	Observance of Legal Holidays (AUG 1992)
18-52.245-71	Installation-Provided Government Property (MAR 1989) Alternate I (MAR 1989)
18-52.252-70	Compliance with NASA FAR Supplement (MAR 1989)

#### I.2 CLAUSES IN FULL TEXT

The clauses listed below follow in full text:

52.252-2	Clauses Incorporated by Reference (JUN 1988)
52.203-9	Requirement for Certificate of Procurement Integrity - Modification (NOV 1990)
52.203-12	Limitation on Payments to Influence Certain Federal Transactions (JAN 1990)
52.215-26	Integrity of Unit Prices (APR 1991)
52.217-9	Option to Extend the Term of the Contract (MAR 1989)
52.222-2	Payment for Overtime Premiums (JUL 1990)
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation (MAR 1986)
52.222-20	Walsh-Healy Public Contracts Act (APR 1984)
52.222-37	Employment Reports on Special Disabled Veterans and Veterans of the Vietnam Era (JAN 1988)

52.222-41	Service Contract Act of 1965, as Amended (MAY 1989)
52.223-6	Drug-Free Workplace (JUL 1990)
52.230-2	Cost Accounting Standards (AUG 1992)
52.232-25	Prompt Payment (SEP 1992)
52.242-13	Bankruptcy (APR 1991)
18-52.204-75	Security Classification Requirements (SEP 1989)
18-52.204-76	Security Requirements for Unclassified Automated Information Resources (JUN 1990)
18-52.209-71	Limitation of Future Contracting (DEC 1988)
18-52.219-75	Small Business and Small Disadvantaged Business Subcontracting Reporting (SEP 1992)
18-52.219-76	NASA Small Disadvantaged Business Goal (JUL 1991)
18-52.228-75	Minimum Insurance Coverage (OCT 1988)

### I.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.

### I.4 REQUIREMENT FOR CERTIFICATE OF PROCUREMENT INTEGRITY--MODIFICATION (FAR 52.203-9) (NOV 1990)

- (a) Definitions. The definitions set forth in FAR 3.104-4 are hereby incorporated in this clause.
- (b) The Contractor agrees that it will execute the certification set forth in paragraph (c) of this clause when requested by the contracting officer in connection with the execution of any modification of this contract.
- (c) Certification. As required in paragraph (b) of this clause, the officer or employee responsible for the modification proposal shall execute the following certification:

#### CERTIFICATE OF PROCUREMENT INTEGRITY--MODIFICATION (NOV 1990)

(1) I, \_\_\_\_\_, [Name of certifier]

am the officer or employee responsible for the preparation of this modification proposal and hereby certify that, to the best of my knowledge and belief, with the exception of any information described in this certification, I have no information concerning a violation or possible violation of subsections 27(a), (b), (d), or (f) of the Office of Federal Procurement Policy Act, as amended\* (41 U.S.C. 423), (hereinafter referred to as "the Act"), as implemented in the FAR, occurring during the conduct of this procurement

(contract and modification number).

(2) As required by subsection 27(e)(1)(B) of the Act, I further certify that, to the best of my knowledge and belief, each officer, employee, agent, representative, and consultant of \_\_\_\_\_

[Name of Offeror]

who has participated personally and substantially in the preparation or submission of this proposal has certified that he or she is familiar with, and will comply with, the requirements of subsection 27(a) of the Act, as implemented in the FAR, and will report immediately to me any information concerning a violation or

possible violation of subsections 27(a), (b), (d), or (f) of the Act, as implemented in the FAR, pertaining to this procurement.

(3) Violations or possible violations: (Continue on plain bond paper if necessary and label Certificate of Procurement Integrity--Modification (Continuation Sheet), ENTER NONE IF NONE EXIST) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
[Signature of the officer or employee responsible for the modification proposal and date]

\_\_\_\_\_  
[Typed name of the officer or employee responsible for the modification proposal]

\*Subsections 27(a), (b), and (d) are effective on December 1, 1990.  
Subsection 27(f) is effective on June 1, 1991.

THIS CERTIFICATION CONCERNS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER TITLE 18, UNITED STATES CODE, SECTION 1001.

(End of certification)

(d) In making the certification in paragraph (2) of the certificate, the officer or employee of the competing Contractor responsible for the offer or bid, may rely upon a one-time certification from each individual required to submit a certification to the competing Contractor, supplemented by periodic training. These certifications shall be obtained at the earliest possible date after an individual required to certify begins employment or association with the Contractor. If a Contractor decides to rely on a certification executed prior to suspension of Section 27 (i.e., prior to December 1, 1989), the Contractor shall ensure that an individual who has so certified is notified that Section 27 has been reinstated. These certifications shall be maintained by the Contractor for a period of 6 years from the date a certifying employee's employment with the company ends or, for an agency, representative, or consultant, 6 years from the date such individual ceases to act on behalf of the Contractor.

(e) The certification required by paragraph (c) of this clause is a material representation of fact upon which reliance will be placed in executing this modification.

I.5 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS  
(FAR 52.203-12) (JAN 1990)

(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 Self-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, if 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 one 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 one year immediately 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 Commonwealth 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 contract, 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.

(B) 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 -

(1) 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 officer or 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, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

(2) Any reasonable payment to a person, other than an officer or 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 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.

(B) 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 influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this 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 or 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) Only 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.

(iii) Disclosure.

(A) The Contractor who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, OMB standard form LLL, 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.

(B) The Contractor shall file a disclosure form at the end of each calendar quarter in which there occurs any event that materially 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 -

(1) 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

(2) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or

(3) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

(C) The Contractor shall require the submittal of a certification, and if required, a disclosure form by any person who requests or receives any subcontract exceeding \$100,000 under the Federal contract.

(D) 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.

(iv) Agreement. The Contractor agrees not to make any payment prohibited by this clause.

(v) Penalties.

(A) 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.

(B) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.

(vi) 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 of the provisions.

I.6 INTEGRITY OF UNIT PRICES (FAR 52.215-26) (APR 1991)

(a) Any proposal submitted for the negotiation of prices for items of supplies shall distribute costs within contracts on a basis that ensures that unit prices are in proportion to the items' base cost (e.g., manufacturing or acquisition costs). Any method of distributing costs to line items that distorts unit prices shall not be used. For example, distributing costs equally among line items is not acceptable except when there is little or no variation in base cost. Nothing in this paragraph requires submission of cost or pricing data not otherwise required by law or regulation.

(b) The requirement in paragraph (a) of this clause does not apply to any contract or subcontract item of supply for which the unit price is, or is based on, an established catalog or market price for a commercial item sold in substantial quantities to the general public. A price is based on a catalog or market price only if the item being purchased is sufficiently similar to the catalog or market price commercial item to ensure that any difference in price can be identified and justified without resort to cost analysis.

(c) The Offeror/Contractor shall also identify those supplies which it will not manufacture or to which it will not contribute significant value when requested by the Contracting Officer. The information shall not be required for commercial items sold in substantial quantities to the general public when the price is, or is based on, established catalog or market prices.

(d) The Contractor shall insert the substance of this clause, less paragraph (c), in all subcontracts.

I.7 OPTION TO EXTEND THE TERM OF THE CONTRACT (FAR 52.217-9) (MAR 1989)

(a) The Government may extend the term of this contract by written notice to the Contractor within the current contract period of performance; provided, that the Government shall give the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option provision.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed seven and one-half years.

NOTE: The preliminary written notice of the Government's intent to exercise is not applicable to the six 1-month option periods.

I.8 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 zero 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 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.

#### 1.9 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION (FAR 52.222-4) (MAR 1986)

(a) Overtime requirements. No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics (see Federal Acquisition Regulation (FAR) 22.300) shall require or permit any such laborers or mechanics in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than 1 1/2 times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(b) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the provisions set forth in paragraph (a) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic employed in violation of the provisions set forth in paragraph (a) of this clause in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in paragraph (a) of this clause.

(c) Withholding for unpaid wages and liquidated damages. The Contracting Officer shall upon his or her own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same Prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same Prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in paragraph (b) of this clause.

(d) Payrolls and basic records. (1) The Contractor or subcontractor shall maintain payrolls and basic payroll records during the course of contract work and shall preserve them for a period of 3 years from the completion of the contract for all laborers and mechanics working on the contract. Such records shall

contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Nothing in this paragraph shall require the duplication of records required to be maintained for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis-Bacon Act.

(2) The records to be maintained under paragraph (d)(1) of this clause shall be made available by the Contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the Contracting Officer or the Department of Labor. The Contractor or subcontractor shall permit such representatives to interview employees during working hours on the job.

(e) Subcontracts.- The Contractor or subcontractor shall insert in any subcontracts the provisions set forth in paragraphs (a) through (e) of this clause and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the provisions set forth in paragraphs (a) through (e) of this clause.

#### I.10 WALSH-HEALY PUBLIC CONTRACTS ACT (FAR 52.222-20) (APR 1984)

If this contract is for the manufacture or furnishing of materials, supplies, articles or equipment in an amount that exceeds or may exceed \$10,000, and is subject to the Walsh-Healy Public Contracts Act, as amended (41 U.S.C. 35-45), the following terms and conditions apply:

(a) All representations and stipulations required by the Act and regulations issued by the Secretary of Labor (41 CFR Chapter 50) are incorporated by reference. These representations and stipulations are subject to all applicable rulings and interpretations of the Secretary of Labor that are now, or may hereafter, be in effect.

(b) All employees whose work relates to this contract shall be paid not less than the minimum wage prescribed by regulations issued by the Secretary of Labor (41 CFR 50-202.2). Learners, student learners, apprentices, and handicapped workers may be employed at less than the prescribed minimum wage (see 41 CFR 50-202.3) to the same extent that such employment is permitted under Section 14 of Fair Labor Standards Act (41 U.S.C. 40).

#### I.11 EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA (FAR 52.222-37) (JAN 1988)

(a) The contractor shall report at least annually, as required by the Secretary of Labor, on:

(1) The number of special disabled veterans and the number of veterans of the Vietnam era in the workforce of the contractor by job category and hiring location; and

(2) The total number of new employees hired during the period covered by the report, and of that total, the number of special disabled veterans, and the number of veterans of the Vietnam era.

(b) The above items shall be reported by completing the form entitled "Federal Contractor Veterans' Employment Report VETS-100."

(c) Reports shall be submitted no later than March 31 of each year beginning March 31, 1988.

(d) The employment activity report required by paragraph (a)(2) of this clause shall reflect total hires during the most recent 12-month period as of the ending

date selected for the employment profile report required by paragraph (a)(1) of this clause. Contractors may select an ending date: (1) As of the end of any pay period during the period January through March 1st of the year the report is due, or (2) as of December 31, if the contractor has previous written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).

(e) The count of veterans reported according to paragraph (a) of this clause shall be based on voluntary disclosure. Each contractor subject to the reporting requirements at 38 U.S.C. 2012(d) shall invite all special disabled veterans and veterans of the Vietnam era who wish to benefit under the affirmative action program at 38 U.S.C. 2012 to identify themselves to the contractor. The invitation shall state that the information is voluntarily provided, that the information will be kept confidential, that disclosure or refusal to provide the information will not subject the applicant or employee to any adverse treatment and that the information will be used only in accordance with the regulations promulgated under 38 U.S.C. 2012.

(f) Subcontracts. The contractor shall include the terms of this clause in every subcontract or purchase order of \$10,000 or more unless exempted by rules, regulations, or orders of the Secretary.

#### I.12 SERVICE CONTRACT 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, or 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 promptly 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 it 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 fringe benefits provided for in a collective bargaining agreement, in the absence of the minimum wage attachment for this contract setting forth such collectively bargained wage rates and fringe 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 fringe 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 4.1b(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 substantially 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 or 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 (53 Comp. 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 comply 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 unconditionally 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.

(l) **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) **Seniority 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.**

Notwithstanding any 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 of work 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) **Tips.** 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.

### I.13 DRUG-FREE WORKPLACE (FAR 52.223-6) (JUL 1990)

(a) **Definitions.** As used in this clause,

"Controlled substance" means a controlled substance in Schedules I through V of Section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.

"Conviction" means a finding of guilt (including a plea of nolo contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

"Criminal drug statute" means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession or use of any controlled substance.

"Drug-free workplace" means the site(s) for the performance of work done by the Contractor in connection with a specific contract at which employees of the Contractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.

"Employee" means an employee of a Contractor directly engaged in the performance of work under a Government contract. "Directly engaged" is defined to include all direct cost employees and any other Contractor employee who has other than a minimal impact or involvement in contract performance.

"Individual" means an offeror/Contractor that has no more than one employee including the offeror/Contractor.

(b) The Contractor, if other than an individual, shall - within 30 calendar days after award (unless a longer period is agreed to in writing for contracts of 30 calendar days or more performance duration); or as soon as possible for contracts of less than 30 calendar days performance duration -

(1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;

(2) Establish an ongoing drug-free awareness program to inform such employees about - -

(i) The dangers of drug abuse in the workplace;

(ii) The Contractor's policy of maintaining a drug-free workplace;

(iii) Any available drug counseling, rehabilitation, and employee assistance programs; and

(iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

(3) Provide all employees engaged in performance of the contract with a copy of the statement required by subparagraph (b)(1) of this clause;

(4) Notify such employees in writing in the statement required by subparagraph (b)(1) of this clause that, as a condition of continued employment on this contract, the employee will -

(i) Abide by the terms of the statement; and

(ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than 5 days after such conviction.

(5) Notify the Contracting Officer in writing within 10 calendar days after receiving notice under subdivision (b)(4)(ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;

(6) Within 30 calendar days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:

(i) Taking appropriate personnel action against such employee, up to and including termination; or

(ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency.

(7) Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) through (b)(6) of this clause.

(c) The Contractor, if an individual, agrees by award of the contract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in the performance of this contract.

(d) In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraphs (b) or (c) of this clause may, pursuant to FAR 23.506, render the Contractor subject to suspension of contract payments, termination of the contract for default, and suspension or debarment.

## I.14 COST ACCOUNTING STANDARDS (NASA FAR SUPPLEMENT 52.230-2) (AUG 1992)

(a) Unless the contract is exempt under 49 CFR, Subparts 9903.201-1 and 9903.201-2, the provisions of 48 CFR, Part 9903.201-1 are incorporated herein by reference and the Contractor, in connection with this contract, shall--

(1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractor's cost accounting practices as required by 48 CFR, Subpart 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.

(2) Follow consistently the Contractor's cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with subparagraph (a)(4) or (a)(5) of this clause, as appropriate.

(3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR, Part 9904 (Appendix B, FAR loose-leaf edition), in effect on the date of award of this contract or, if the Contractor has submitted cost or pricing data, on the date of final agreement on price as shown on the Contractor's signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

(4)(i) Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to subparagraph (a)(3) of this clause, the Contractor is required to make to the Contractor's established cost accounting practices.

(ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of subparagraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.

(iii) When the parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the changes clause of this contract.

(5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if the Contractor or a subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621 of the Internal Revenue code of 1986 (26 U.S.C.

6621) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.

(b) If the parties fail to agree whether the Contractor or a subcontractor has complied with an applicable CAS in 48 CFR, Part 9904 or a CAS rule or regulation in 48 CFR, Part 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under the Contract Disputes Act (41 U.S.C. 601).

(c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.

(d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the subcontractor's award date or if the subcontractor has submitted cost or pricing data, on the date of final agreement on price as shown on the subcontractors signed Certificate of Current Cost or Pricing Data. This requirement shall apply only to negotiated subcontracts in excess of \$500,000 where the price negotiated is not based on--

(1) Established catalog or market prices of commercial items sold in substantial quantities to the general public; or

(2) Prices set by law or regulation, and except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR, Subpart 9903.201-1.

#### I.15 PROMPT PAYMENT (FAR 52.232-25) (SEP 1992)

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 an electronic funds transfer is made. Definitions of pertinent terms are set forth in 32.902. All days referred to in this clause are calendar days, unless otherwise specified. The term "foreign vendor" means an incorporated concern not incorporated in the United States, or an unincorporated concern having its principal place of business outside the United States.

##### (a) Invoice Payments.

(1) For purposes of this clause, "invoice payment" means a Government disbursement of monies to a Contractor under a contract or other authorization for supplies or services accepted by the Government. This includes payments for partial deliveries that have been accepted by the Government and final cost or fee payments where amounts owed have been settled between the Government and the Contractor.

(2) Except as indicated in subparagraph (a)(3) and paragraph (c) of this clause, the due date for making invoice payments by the designated payment office shall be the later of the following two events:

(i) The 30th day after the designated billing office has received a proper invoice from the Contractor.

(ii) 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. However, if the designated billing office fails to annotate the invoice with the actual date of receipt, the invoice payment due date shall be deemed to be the 30th day after the date the Contractor's invoice is dated, provided a proper invoice is received and there is no disagreement over quantity, quality, or Contractor compliance with contract requirements.

(3) The due date on contracts for meat, meat food products, or fish; contracts for perishable agricultural commodities, contracts for dairy products, edible fats or oils, and food products prepared from edible fats or oils, and contracts not requiring submission of an invoice shall be as follows:

(i) -The due date for meat and 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 further defined in Pub. L. 98-181 to include any edible fresh or frozen poultry meat, any perishable poultry meat food product, fresh eggs, and any perishable egg product, will be as close as possible to, but not later than, the 7th day after product delivery.

(ii) The due date 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)), will be as close as possible to, but not later than, the seventh day after product delivery.

(iii) The due date for perishable agricultural commodities, as defined in section 1(4) of the Perishable Agricultural commodities Act of 1930 (7 U.S.C. 499a(44)), will be as close as possible to, but not later than, the 10th day after product delivery, unless another date is specified in the contract.

(iv) The due date for dairy products, as defined in section 111(e) of the Dairy Production Stabilization Act of 1983 (7 U.S.C. 4502(e)), edible fats or oils, and food products prepared from edible fats or oils, will be as close as possible to, but not later than, the 10th day after the date on which a proper invoice has been received.

(v) If the contract does not require submission of an invoice for payment (e.g., period lease payments), the due date will be as specified in the contract.

(4) An invoice is the Contractor's bill or written request for payment under the contract for supplies delivered or services performed. An invoice shall be prepared and submitted to the designated billing office specified in the contract. A proper invoice must include the items listed in subdivisions (a)(4)(i) through (a)(4)(viii) of this clause. If the invoice does not comply with these requirements, then the Contractor will be notified of the defect within 7 days after receipt of the invoice at the designated billing office (3 days for meat, meat food products, or fish, and 5 days for perishable agricultural commodities, edible fats or oils, and food products prepared from edible fats or oils. Untimely notification will be taken into account in the computation of any interest penalty owed the Contractor in the manner described in subparagraph (a)(6) of this clause.

(i) Name and address of the Contractor.

(ii) Invoice date.

(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 event of a defective invoice.

(viii) Any other information or documentation required by other requirements of the contract (such as evidence of shipment).

(5) An interest penalty shall be paid automatically by the Government, without request from the Contractor, if payment is not made by the due date and the conditions listed in subdivisions (a)(5)(i) through (a)(5)(iii) of this clause are met, if applicable. An interest penalty shall not be paid on contracts awarded to foreign vendors outside the United States for work performed outside the United States.

(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.

(6) 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.

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 payment amount approved by the Government and 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 payment amount and 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 paragraph (a)(4) of this clause, then the due date on the corrected invoice will be adjusted by subtracting the number of 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, if requested by the Contractor.

(i) For the sole purpose of computing an interest penalty that might be due the 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 quantity, 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.

(ii) The following periods of time will not be included in the determination of an interest penalty:

(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, and 5 days for perishable agricultural 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.

(iii) Interest penalties will not continue to accrue after the filing of a claim for such penalties under the clause at 52.233-1, Disputes, or for more than 1 year. Interest penalties of less than \$1.00 need not be paid.

(iv) Interest penalties are not required on payment delays due to disagreement between the Government and 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.

(7) An interest penalty shall also 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)(6) 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.

(8) If this contract was awarded on or after October 1, 1989, a penalty amount, calculated in accordance with regulations issued by the Office of Management and Budget, shall be paid in addition to the interest penalty amount if the Contractor -

(i) Is owed an interest penalty;

(ii) Is not paid the interest penalty within 10 days after the date the invoice amount is paid; and

(iii) Makes a written demand, not later than 40 days after the date the invoice amount is paid, that the agency pay such a penalty.

(b) Contract Financing Payments.

(1) For purposes of this clause, "contract financing payment" means a Government disbursement of monies to a Contractor under a contract clause or other authorization prior to acceptance of supplies or services by the Government. Contract financing payments include advance payments, progress payments based on cost under the clause at 52.232-16, Progress Payments, progress payments based on a percentage or stage of completion (32.102(e)(1)) other than those made under the clause at 52.232-5, Payments Under Fixed-Price Construction Contracts, or the clause at 52.232-10, Payments Under Fixed-Price Architect-Engineer Contracts, and interim payments on cost type contracts.

(2) For contracts that provide 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 30th 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.

(3) For advance payments, loans, or other arrangements that do not involve recurrent submissions of contract financing requests, payment shall be made in accordance with the corresponding contract terms or as directed by the Contracting Officer.

(4) Contract financing payments shall not be assessed an interest penalty for payment delays.

(c) 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.

#### I.16 BANKRUPTCY (FAR 52.242-13) (APR 1991)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail, 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.

#### I.17 SECURITY CLASSIFICATION REQUIREMENTS (NASA 18-52.204-75) (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 SECRET. See Federal Acquisition Regulation clause 52.204-2 in this contract and DD Form 254, Contract Security Classification Specification, Exhibit G.

#### I.18 SECURITY REQUIREMENTS FOR UNCLASSIFIED AUTOMATED INFORMATION RESOURCES (NASA 18-52.204-76) (JUN 1990)

(a) In addition to complying with any functional and technical security requirements set forth in the schedule and the clauses of this contract, the Contractor shall obtain special identification, as required by the computer security manager, for its personnel who need unescorted or unsupervised physical access or electronic access to the following limited or controlled areas, systems, programs and data:

Central Scientific Computing Complex

(b) The Contractor shall incorporate this clause in all subcontracts where the requirements identified in paragraph (a) are applicable to performance of the subcontract.

#### I.19 LIMITATION OF FUTURE CONTRACTING (NASA 18-52.209-71) (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 is participation in system design reviews with the Government and other Contractor representatives to define operational improvements and plan their implementation, and access to other companies' proprietary data. The Contractor shall advise the Contracting Officer of any perceived potential organizational conflict of interest of any work prior to execution of that effort. Upon being so informed, or if the Contracting Officer independently identifies a potential organizational conflict of interest, the Contracting Officer shall determine which of the following is in the best interest of the Government and so advise the Contractor:

(1) the Contractor shall perform as directed; or  
 (2) the Contractor shall not perform the work and the work shall be obtained by the Government from another source.

(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.

#### I.20 SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACTING REPORTING (NASA/FAR SUPPLEMENT 18-52.219-75) (SEP 1992)

(a) The Contractor shall submit the Summary Subcontract Report (Standard Form [SF] 295) quarterly for the reporting periods specified in Block 1.A. of the form. Reports are due 30 days after the close of each reporting period.

(b) The Contractor shall also complete Item 15 (Subcontract awards to Historically Black Colleges and Universities/Minority Institutions) in accordance with the existing instructions applicable to DOD activities.

(c) All other provisions in the instruction paragraphs of the SF 295 remain in effect.

(d) The Contractor shall include this clause in all subcontracts that include the clause at FAR 52.219-9.

#### I.21 NASA SMALL DISADVANTAGED BUSINESS GOAL (NASA 18-52.219-76) (JUL 1991)

(a) Definitions.

"Historically Black Colleges and Universities," as used in this clause, means institutions determined by the Secretary of Education to meet the requirements of 34 CFR Section 608.2 and listed therein.

"Minority educational institutions," as used in this clause, means institutions meeting the criteria established in 34 CFR 607.2 by the Secretary of Education.

"Small disadvantaged business concern," as used in this clause, means a small business concern owned or controlled by individuals who are both socially and economically disadvantaged (within the meaning of section 8(a)(5) and (6) of the Small Business Act (15 U.S.C. 637 (a)(5) and (6))). For purposes of this clause, socially and economically disadvantaged individuals shall be deemed to include women.

(b) The NASA Administrator is required to ensure, to the fullest extent possible, that at least 8% of the total value of prime and subcontracts awarded in support of authorized programs, including the space station by the time operational status is obtained, is made available to small business concerns or other organizations owned or controlled by socially and economically disadvantaged individuals (including women), Historically Black Colleges and Universities, and minority educational institutions.

(c) The Contractor hereby agrees to assist NASA in achieving this goal by using its best efforts to award subcontracts to small disadvantaged business concerns, Historically Black Colleges and Universities, and minority educational institutions, as defined in this clause, to the fullest extent consistent with efficient contract performance.

(d) Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as small disadvantaged business concerns, Historically Black Colleges and Universities, and minority educational institutions.

#### I.22 MINIMUM INSURANCE COVERAGE (NASA 18-52.228-75) (OCT 1988)

The Contractor shall obtain and maintain insurance coverage as follows for the performance of this contract:

(a) Worker's compensation and employer's liability insurance as required by applicable Federal and State workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's liability section of the insurance policy, except when contract operations are so commingled with the Contractor's commercial operations that it would not be practical. The employer's liability coverage shall be at least \$100,000, except in States with exclusive or monopolistic funds that do not permit workers' compensation to be written by private carriers.

(b) Comprehensive general (bodily injury) liability insurance of at least \$500,000 per occurrence.

(c) Motor vehicle liability insurance written on the comprehensive form of policy which provides for bodily injury and property damage liability covering the operation of all motor vehicles used in connection with performing the contract. Policies covering motor vehicles operated in the United States shall provide coverage of at least \$200,000 per person and \$500,000 per occurrence for bodily injury liability and \$20,000 per occurrence for property damage. The amount of

liability coverage on other policies shall be commensurate with any legal requirements of the locality and sufficient to meet normal and customary claims.

(d) Comprehensive general and motor vehicle liability policies shall contain a provision worded as follows:

"The insurance company waives any right of subrogation against the United States of America which may arise by reason of any payment under the policy."

(e) When aircraft are used in connection with performing the contract, aircraft public and passenger liability insurance of at least \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability, and \$200,000 per occurrence for property damage. Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater.

# STATEMENT OF WORK

SCIENTIFIC COMPUTING OPERATIONS, MAINTENANCE,  
AND COMMUNICATIONS (SCOMAC) SERVICES

NAS1-20048  
EXHIBIT A

JULY 27, 1993

**NASA** ——— **LANGLEY RESEARCH CENTER** ———

HAMPTON, VA

23681-0001

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SECTION J - LIST OF ATTACHMENTS

Exhibit A	Statement of Work, dated July 27, 1993, 45 pages
Exhibit B	Contract Documentation Requirements, 8 pages
Exhibit C	Government-Furnished Property, 5 pages
Exhibit D	Installation-Provided Government Property, 14 pages
Exhibit E	Subcontracting Plan, 25 pages
Exhibit F	Register of Wage Determination and Fringe Benefits, 6 pages
Exhibit G	Contract Security Classification Specification, DD Form 254, 2 pages

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STATEMENT OF WORK  
FOR  
SCIENTIFIC COMPUTING OPERATIONS, MAINTENANCE,  
AND COMMUNICATIONS (SCOMAC) SERVICES

**C.1 - INTRODUCTION/BACKGROUND**

The Analysis and Computation Division (ACD) is one of four divisions in the Electronics Directorate of the Langley Research Center (LaRC). The mission of ACD is to provide comprehensive central computational services and Center-wide communication and networking services for all research and development activities at the Center. ACD has a civil service staff of approximately 110 employees.

To accomplish its mission, ACD manages and operates the Central Scientific Computing Complex (CSCC), a large and comprehensive configuration of computing systems and auxiliary devices located in building 1268, 1268A, and 1268B. Included in the CSCC are several special-purpose equipment laboratories and test areas. The complex is operated on an open-shop basis for scientists, engineers, and other technical personnel to perform analytical studies, experimental data reduction, and real-time simulations. ACD also provides and maintains Center-wide networks for voice, data, and video communications, and provides limited systems support to computing and data reduction facilities distributed throughout the Center.

The capabilities of the CSCC and the Center-wide communication networks are used by all segments of the LaRC research community. The availability and reliability of these systems is vital to the progress of the Center's activities and the accomplishment of its mission. The goal is 100 percent availability and reliability of all systems at all times.

ACD depends upon several support service and maintenance contracts to perform many of its critical functions. The Statement of Work (SOW) is for a contract to provide a major part of these services and maintenance.

The object of this contract is for ACD to obtain support services to operate and maintain most of the CSCC and all Center-wide voice, data, and video communications networks; and to provide system administration support to specified distributed computing and data reduction systems. This contract will be administered, technically, by ACD, but support may be provided to other organizations as requirements develop.

The services required by this contract represent a consolidation of services that are currently being provided under several different contracts. The tasks listed herein which are being performed under contracts that will terminate after the start date of this contract will be incorporated into this contract as those contracts end; thus the transition of work into this contract will occur in several phases. The Contractor shall do all things necessary to minimize the disruption of services during phase-in of new tasks.



## C.2 - SCOPE OF CONTRACT AND GENERAL REQUIREMENTS

### C.2.1 - SCOPE

The Contractor shall furnish all qualified personnel, material, and equipment (other than that provided by the Government) required to provide the services in the general task areas: CSCC operations, CSCC systems maintenance, Center-wide communications systems support, and system administration of LaRC distributed computing and data reduction systems.

#### C.2.1.1 - CSCC Operation

The Contractor shall provide for the operation of the computing and data handling equipment within the CSCC. The operational requirements are delineated in Section C.3 of this Statement of Work.

The Contractor shall provide computer operating system support involving operational analysis, user validation, resource accounting, operations program support, systems software support, operating system testing, quality assurance, and procedure documentation. These requirements are more specifically described in Section C.3 of this Statement of Work.

The Contractor shall provide for analysis of the performance of both hardware and software systems as covered in Section C.3.

The Contractor shall provide facility management support for the building 1268 CSCC facility complex. These requirements are more specifically described in Section C.3.3 of this Statement of Work.

#### C.2.1.2 - CSCC Systems Maintenance

The Contractor shall maintain the CSCC equipment and operating system software delineated in Appendix A. The associated system environmental protection and power equipment (e.g., dew point monitors, 400 Hz Motor-Generator sets, and condensing units) listed in Appendix A are considered part of the CSCC. In addition, equipment to be maintained shall include interconnecting signal cables needed for the CSCC. This includes all signal cables that are an integral portion of the equipment in Appendix A and power cables and mating connectors provided with the equipment. These requirements are delineated in Section C.4 of this Statement of Work. Signal cables connecting equipment in Appendix A with equipment not listed in Appendix A are maintained as part of the Communications Systems described in Section C.5.

#### C.2.1.3 - Communications Systems

The Contractor shall provide engineering, installation, operation, and maintenance of all communications networks hardware and software that support Center-wide voice, data, and video communications as described in Section C.5.

#### C.2.1.4 - LaRC Distributed Computing and Data Reduction Support

The Contractor shall provide support for LaRC distributed computing systems that are used throughout the Center by the LaRC research staff to provide a decentralized computational or data reduction capability. This support involves system administration, system management, system operations, programming, and procedure documentation. These requirements are more specifically described in Section C.6.

### C.2.2 - GENERAL REQUIREMENTS

#### C.2.2.1 - Operating Hours

The Contractor shall provide support of the CSCC and Center-wide communications networks on a continuous basis (24 hours/day, 7 days/week, including all Government holidays). Weekend and holiday operations may not be required at times, whereupon advance notice will be provided to the Contractor.

Government Operating Shifts - A regular work day (typically Monday through Friday) consists of three shifts in each 24-hour period defined as follows:

First            07:30 a.m. - 04:00 p.m.  
Second         03:30 p.m. - Midnight  
Third            11:30 p.m. - 07:30 a.m.

Contractor Services Hours - The following table shows the normal distribution of the services required by this Statement of Work.

<u>SERVICE</u>	<u>FIRST</u>	<u>SECOND</u>	<u>THIRD</u>	<u>WEEKEND HOLIDAY</u>
Equipment Operation	X	X	X	X
Computer Operating System Support	X	(1)	(1)	(1)
Maintenance	(2)	(2)	(2)	(2)
Communications Support	X	(3)	(3)	(3)
Distributed System Support	X	(4)	(4)	(4)

- X Regularly Staffed.  
(1) Activity frequently required for systems development and testing.  
(2) Coverage according to C.4.1.  
(3) Remote call-in for system verification and follow-up maintenance.  
(4) Personnel rescheduled from first shift to meet special research testing requirements.

### C.2.2.2 - Performance Criteria

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The performance goal under this contract is to assure maximum availability and reliability of the CSCC computing and communication systems. Two criteria that are used in determining the effectiveness of system performance by the Contractor are the number of malfunctions for the system and the downtime.

#### **Malfunction**

This is defined as any condition occurring during the use of a system which will cause an interruption in the processing or reduce the overall production effectiveness.

#### **Downtime**

Downtime is time during which an item is inoperable due to a malfunction. A malfunction on one item which causes other items to be inoperable, or non-usable, shall result in downtime accounted against those items also. Downtime shall apply from the time that a malfunction occurs until the time when the item is returned to production use.

Depending upon the severity of the malfunction or the need to delay remedial maintenance, it may be necessary to defer the start of remedial maintenance or to suspend maintenance and use any item(s) in a degraded mode. Any such deferred use time shall not be charged to downtime.

Downtime which occurs during the Principal Period of Maintenance (PPM) (reference C.4.1) will continue to accrue until the item is returned to acceptable operating condition or maintenance is deferred. Extensions of Preventive Maintenance (reference Section C.4.6) beyond the scheduled period shall be classified as downtime.

For the purposes of computing downtime and determining the frequency of interruptions to service, malfunctions are excluded which are directly attributable to: (1) facility problems; (2) hardware/software problems which have been defined, corrected, and tested, but, at the Government's option, not installed into production operation; (3) Government-provided materials; or (4) Original Equipment Manufacturer (OEM) design problems. It shall be incumbent upon the Contractor to provide sufficient evidence to support any contention that a malfunction resulted from any of the excluded causes.

Any item listed in Appendix A which is used by the Contractor to repair or check out any other item shall be charged downtime while under such use.

## **C.3 - CSCC OPERATION**

This section of the Statement of Work defines the requirements for the operation of the CSCC and the support for systems software, resource accounting, and facility management.

Specific items of equipment to be supported in the CSCC can be expected to change as upgrades are made. The Contractor shall provide support for such changes and shall assume operational responsibility for new equipment as it is implemented. The Contractor shall respond to memoranda or other Government furnished documentation as a guide in developing and implementing the actual procedures used for operating the various systems. Contractor effort relating to the support required in the CSCC operations area is described in the following sections.

### **C.3.1 - CSCC EQUIPMENT OPERATION**

Contractor personnel shall be familiar with and shall operate the equipment within the CSCC. The Contractor services for the operation of the CSCC shall include, but are not limited to, the following:

- Operation of the computing, graphics, and support equipment.
- Monitoring of equipment performance, and notification of cognizant personnel in the event of malfunctions.
- Scheduling and dispatching of the computer workload (at the operational level).
- Maintenance of quality control for all output.
- Preparation of output data for distribution.
- Development, maintenance, and operation of quality assurance programs for equipment in the CSCC.
- Maintenance of records and statistics of equipment performance and use.
- Provision of a centralized point of contact between user, computer operations, and maintenance personnel.
- Assembly and distribution of CSCC documentation.
- Generation of information and recommendations for management reporting and improved operational efficiency.
- Updating of procedures to account for improvements and changes in the operating systems.

- Management of a magnetic tape library (central and remote) which shall include methods for control, accountability, and use of magnetic tapes.
- Operation of magnetic tape evaluation equipment, inspection and monitoring of the evaluation methods and procedures, and monitoring of magnetic tape quality by recording evaluation data and analysis of error statistics.
- Management of file storage systems which shall include provisions for error analysis and correction, file distribution control, and utilization reporting and accountability. Additional provisions shall include permanent file archiving, backup, and recovery operations.
- Maintenance of a proper level of supplies (paper, chemicals, magnetic tape, film).
- Review and verification of all system malfunction reports generated at the CSCC. Additional requirements in this area involve report generation and data base management.

**C.3.2 - OPERATING SYSTEMS SUPPORT**

The requirements described in this part of the Statement of Work are in the areas of systems software support and computer operations support. This work requires close coordination with the Government and other contractors.

The Contractor shall provide support which shall include, but is not limited to, the following:

- Participate in system design reviews with the Government and other contractor representatives to define operational improvements and plan their implementation.
- Participate in software engineering methodology reviews.
- Generate operating systems to be used in production operations. The generated system shall be installed after Government approval and on a schedule mutually agreed to by the Government and the Contractor.
- Transition non-standard system software into the production system. Non-standard system software is defined as all system software installed in the system which is not part of the standard system supplied by the software vendor. This non-standard system software includes Advanced Real-Time Simulation Subsystem (ARTSS) software and other local modifications which enhance the operability, usability, reliability, and performance of the standard system software.
- Document the generation of all functional production systems.

- Analyze the system software and make recommendations for software modifications that improve performance and provide enhancements that would be beneficial to operations and systems personnel and applications users.
- Provide specific test programs to be used in quality assurance and testing of both computer hardware systems and supporting system software.
- Provide, implement, and maintain a structured approach and a complete lifecycle methodology for all software activities.
- Identify, develop, and implement programs which provide improvements to the systems software and its various specialized areas, such as graphics, on-line computing, real-time simulation, interactive graphics subsystems, and the LaRC local area network (LaRCNET).
- Identify, develop, and implement computer programs which support the operation and management of the CSCC.
- Ensure operational capability of production software through systems upgrades and equipment changes.
- Provide software support for the communications link between CSCC computers and LaRCNET.
- Consult with users on referred problems related to the operating systems, job handling procedures, programming languages, programming techniques, user validation, and resource accounting.
- Provide consultation on the system, covering such areas as: input/output drivers, system intercommunication drivers, system schedulers, system monitors, interactive and remote job processors, compilers, assemblers, loaders, communication protocols, utilities, accounting, validation, and system generation procedures.
- Identify, develop, and implement computer programs to establish and maintain a data base using the various system dayfile history and accounting features for the following purposes:
  1. Provide daily job validation criteria.
  2. Obtain computer resource use and accounting information.
  3. Provide periodic (daily, weekly, or other as required) statistics, reports, and plots of systems use and performance.
  4. Provide to user organizational representatives a query capability to retrieve current accounting and validation information.
- Provide the daily processing and analysis support required to establish, use, and maintain the data base for the purposes given above.

- Interact daily with user organization representatives and provide responses to their requests.
- Perform quality assurance and testing of the operating system, special subsystems, and hardware equipment.
- Perform on-the-spot consultation and analysis when computer malfunctions occur.
- Review, analyze, and classify malfunctions, and document them using a software program report (SPR). The SPR's shall be maintained in a data base accessible by the Government.
- Develop special purpose test programs and/or procedures to aid in the analysis and isolation of malfunctions; these programs and/or procedures are written for the purpose of duplicating these malfunctions during scheduled periods of system test time. These programs and/or procedures shall also be used to verify corrective action.
- Perform corrective action (e.g., corrective code, a procedure, documentation, etc.) when required. If the corrective action requires a modification to the current system, the Contractor shall generate a modified version of the current system containing the correction.
- Review, analyze, and document (if required) vendor-supplied corrective code. The Contractor shall describe to the Government the corrective code and apprise the Government of its impact on system operations and the applications users.
- Prepare appropriate system software documentation for all modifications made to the system software. The documentation shall conform to the Contractor's software engineering methodology.
- Interpret operating system requirements for operations staff through preparation of operational procedure memoranda and provision of specialized training sessions.
- Provide support for hardware reconfigurations, power up/down, or for other purposes as required by the Government.
- Assemble audio and video animations using complex digital editor, digital video recorders, analog components, paint package, character generator and special effects devices, and perform other duties required to produce video presentations of scientific data.
- Configure, install, and operate video devices used to produce video presentations of scientific data; analyze malfunctions and resolve problems involving digital and analog components and composite systems.

### **C.3.3 - FACILITY MANAGEMENT SUPPORT**

The Contractor shall provide facility management support for the Building 1268 Complex at LaRC. The required work in this area will primarily consist of:

1. Access control system data base management support.
2. Environmental system monitoring support.
3. Facility management documentation support.

#### **C.3.3.1 - Access Control System Data Base Management Support**

The Contractor shall manage and use the access control system. This shall include, but is not limited to, the following:

- Program the Access Control System.
- Issue and track card keys.
- Perform periodic system backup to save system update data.
- Provide system use reports monthly and as requested.

#### **C.3.3.2 - Environmental System Monitoring Support**

The Contractor shall manage and use the Environmental Monitoring System. This shall include, but is not limited to, the following:

- Operate the facility environmental monitoring system.
- Provide monthly reports documenting environmental conditions of equipment areas.

#### **C.3.3.3 - Facility Management Documentation Support**

The Contractor shall manage and use the Facility Management Documentation System. This shall include, but is not limited to, the following:

- Operate the Facility Management Documentation System.
- Maintain current layout drawings of all equipment areas.
- Document proposed equipment area configurations.
- Maintain current list of all equipment located on each drawing.
- Update and maintain data base.



## C.4 - CSCC SYSTEMS MAINTENANCE

The Contractor shall maintain the CSCC equipment and operating system software listed in Appendix A. The associated system environmental protection and power equipment (e.g., dew point monitors, 400 Hz Motor-Generator sets, and condensing units) listed in Appendix A are considered part of the CSCC. In addition, equipment to be maintained shall include interconnecting signal cables needed for the CSCC. This includes all signal cables that are an integral portion of the equipment in Appendix A and power cables and mating connectors provided with the equipment.

All preventive and remedial maintenance shall be performed using parts and procedures that are at least equal to OEM recommendations.

The Contractor shall develop and implement an organized remedial and preventive maintenance system that is designed to minimize equipment repair downtime and frequency of equipment breakdowns. The Contractor shall, through analysis of maintenance records and other data, assess the performance of the maintenance system, identify important performance factors, report to the Government on the system's performance, and identify and implement improvements.

The Contractor shall document all system malfunctions on a systems malfunction report. A system malfunction report contains a variety of information, including description of the problem and its fix, identification of the item on which the malfunction occurred, and pertinent times such as that of notification, arrival, deferment, etc.

The Contractor shall provide support for the removal of equipment listed in Appendix A from the CSCC. This support will consist of disconnecting all signal and electrical power cables, removing signal cables, and preparing the equipment for shipment.

The Contractor shall provide maintenance of the CSCC on a continuous basis (24 hours/day, 7 days/week, including all Government holidays). Weekend and holiday operations may not be required at times, whereupon advance notice will be provided to the Contractor.

### C.4.1 - MAINTENANCE COVERAGE

The items requiring maintenance under this contract have been designated with a particular status value based on their criticality. The status value is defined by the combined Principal Period of Maintenance (PPM) and associated response time as follows:

<u>STATUS</u>	<u>PPM</u>	<u>RESPONSE TIME</u>	
		<u>PPM</u>	<u>NON-PPM</u>
1	0000-2400	10 minutes	2 hours
2	0800-2400	10 minutes	2 hours
3	0800-1700	10 minutes	2 hours
4	0800-1700	2 hours	N/A
5	On-Call	2 hours	2 hours

The PPM is applicable Monday through Friday, with the exception of Government holidays. Maintenance coverage for all equipment during the weekends and holidays shall be provided in accordance with Status 5 requirements. If coverage other than Status 5 is required during weekends and holidays, the Government will provide advance notice to the Contractor, and the associated labor for such coverage shall be provided in accordance with Section C.3.

Response time is the elapsed time from notification of a malfunction to the Contractor's point of contact and the arrival of a technically-qualified contract employee at the site of the malfunction.

#### **C.4.2 - POINT OF NOTIFICATION**

The Contractor and Government, by mutual agreement, shall establish a point or points of contact for sending and receiving notifications that remedial maintenance is required. The Contractor shall establish arrangements to enable his maintenance representative to receive such notifications readily and promptly. The procedure for notification, transmittal, and receipt mutually agreed upon shall be documented and strictly followed until altered by mutual agreement.

Failure of the Contractor's established point of contact (such as an "answering service") to forward messages shall not be considered cause beyond the Contractor's control.

#### **C.4.3 - PREVENTIVE MAINTENANCE**

The Contractor may perform preventive maintenance for the items listed in Appendix A. The Contractor shall ensure that preventive maintenance is scheduled in a manner mutually agreeable to the Government and Contractor that minimizes the impact on production schedules and/or overall system performance.

#### **C.4.4 - SPARE PARTS**

The Contractor shall maintain a local inventory of spare and repair parts sufficient to maintain the equipment properly and efficiently. Time required to obtain a part in order to repair the equipment or otherwise keep it in good operating condition shall be charged to remedial maintenance unless the Government elects to defer maintenance.

The quantity and types of parts to be maintained locally shall be based on the recommendations by the OEM. Only new standard parts or those of equal quality shall be used in maintenance services. Replaced parts become the property of the Contractor.

#### **C.4.5 - FIELD CHANGE ORDERS**

The Contractor shall be responsible for the installation and maintenance of Field Change Orders (FCOs) recommended by the OEM.

**C.4.6 - CONTROLWARE**

Controlware used in any of the devices of Appendix A shall be the responsibility of the Contractor. Controlware is subject to the conditions for maintenance coverage as set forth in Section C.4.1. The Contractor shall provide controlware updates, including installing field changes recommended by the OEM.

**C.4.7 - SYSTEM SOFTWARE**

The Government will be responsible for purchasing all software licensing agreements. The Contractor shall notify the Government of the availability of updates and successor products to the current installed system software as well as the availability of applicable new products. The Contractor shall provide to the Government updates of the current Government-licensed and installed system software when no new license is required. This shall include corrective code and enhancements to the system software listed in Appendix A.

The Contractor shall provide, on machine-readable media, source code, if available, for all software products for which the Government has obtained source code licenses. The source code must be readily accessible by Government and other contractor personnel.

**C.4.8 - MAINTENANCE DOCUMENTATION**

All equipment and maintenance manuals necessary to perform maintenance shall be obtained, filed, and kept updated by the Contractor. This documentation shall be maintained by the Contractor for the life of the contract.

The Contractor shall acquire and maintain copies of manufacturer's bulletins that are available concerning the items under maintenance.

The Contractor shall provide to the Government documentation for current and successor versions of software systems identified in Appendix A. Updates of these manuals shall be provided for each revision of the software systems.

The Contractor shall provide Certificates of Maintainability upon request.

## **C.5 - COMMUNICATION NETWORKS**

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This section of the Statement of Work defines the requirements for services to support Center-wide communication networks at LaRC.

There are three major Center-wide communication networks at the LaRC: (1) the LaRC Computer Network (LaRCNET), providing high-speed data communication among the Center's computing resources; (2) the LaRC Telecommunications System (LaTS), providing local telephone service and low-speed interactive data communication; and (3) the LaRC Video Network (LaRCVIN), providing video conferencing and local distribution of internal and external video transmissions. These networks connect computers, telephones, and video equipment located throughout LaRC.

The Contractor shall provide the administration, engineering, maintenance, and operations support of LaRC communication systems and networks.

Specific items of equipment can be expected to change as new technology becomes available. Also, quantities of equipment can be expected to increase as the networks grow in size. The Contractor shall respond to such changes and growth, and assume operational and maintenance responsibility for new equipment as it is implemented.

The Contractor shall purchase network hardware and software required to maintain and expand the LaRC communication networks. This includes test equipment, all hardware and software required to expand and upgrade the networks, and hardware required to replace failed equipment and maintain adequate spare parts inventories.

### **C.5.1 - CORRECTIVE AND PREVENTIVE MAINTENANCE**

The Contractor shall provide corrective and preventive maintenance on a continuous basis (24 hours/day, 7 days/week, including all Government holidays) for all network hardware including: (1) LaRCNET computer interfaces and infrastructure (including transceivers, receivers, repeaters, bridges, routers, and gateways); (2) LaTS, the Government-owned integrated voice/data switching system, including telephones, modems, and associated equipment; and (3) LaRCVIN broadband distribution system including taps, splitters, amplifiers, and all head-end equipment. The Contractor shall provide maintenance services for Uninterruptible Power Supply (UPS) power systems and diesel generators used for backup power for the networks.

### **C.5.2 - INSTALLATION AND RELOCATION OF NETWORK EQUIPMENT**

The Contractor shall provide installation and relocation, as required, of all network equipment including: (1) LaRCNET computer network interfaces, including network software on personal computer and workstations, and LaRCNET infrastructure, including transceivers, repeaters, bridges, routers, and gateways; (2) LaTS equipment, including telephones and modems; and (3) LaRCVIN equipment, including taps and receivers. All equipment shall be lab tested prior to installation in the network.

### **C.5.3 - INSTALLATION AND REPAIR OF NETWORK CABLING**

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The Contractor shall provide installation, diagnosis, and repair of all network cabling and connectors including twisted-pair, coax, and fiber used for intrabuilding and interbuilding communication. Cable shall be tested before installation and the results documented.

### **C.5.4 - SYSTEMS SUPPORT**

The Contractor shall provide engineering and systems analysis support to: (1) evaluate new network technologies, equipment, and software for application in the LaRC environment; (2) integrate new technologies, equipment, and software within the LaRC environment; (3) diagnose and resolve complex communication problems requiring specialized test equipment and knowledge; and, (4) design, develop, and implement custom hardware and software, as required, to accommodate special applications and to facilitate network maintenance.

### **C.5.5 - ADMINISTRATIVE AND OPERATIONS SUPPORT**

The Contractor shall manage the day-to-day operation of the LaRC communication networks, including maintenance of equipment and parts inventories and network configuration data bases. This support shall include data base administration, logging and monitoring of network traffic, traffic analysis, and the generation of equipment utilization reports, network drawings/documentation, and periodic field surveys of network equipment.

### **C.5.6 - USER SERVICES**

The Contractor shall provide user services to: (1) interface with the user community to define requirements, generate service requests, and provide for additions, relocations, and changes to the network facilities; (2) install network configuration changes to accommodate user requirements; (3) answer user questions and serve as the user interface for network problems; and, (4) operate the LaRC video conference facility including planning and scheduling of conferences.

### **C.6 - LaRC DISTRIBUTED COMPUTING AND DATA REDUCTION SUPPORT**

In addition to the mainframe computers of the CSCC, a number of distributed computing systems and data reduction systems are housed in various facilities throughout LaRC. Many of these systems require support in the form of system administration, operation, programming, and documentation. This section defines the requirements for services to be provided by the Contractor on designated LaRC distributed systems.

### **C.6.1 - DISTRIBUTED SYSTEM SUPPORT**

The Contractor shall provide system management services for LaRC distributed computer systems including, but not limited to, the following:

- Manage user accounts and files including the addition/removal of users, backup/restoration of files, and disk space accounting.
- Maintain system files and software including system file backup/restoration, utilization and performance accounting, software installation and upgrade, software problem identification and correction, and security monitoring.
- Develop and maintain local software documentation including procedures and restrictions on using software packages.
- Stay abreast of technology advancements.
- Participate in the planning, ordering, and installation of new hardware. Schedule and monitor hardware repairs.
- Develop policies and procedures that promote optimal use of system resources.

### **C.6.2 - DATA REDUCTION SUPPORT**

The Contractor shall provide data reduction support for various research facilities located at LaRC. This support includes the development, modification, and improvement of application programs for data acquisition, data presentation, and data analysis, that execute on the various LaRC data reduction systems. Often, this support is required in conjunction with distributed systems support and shall include, but is not limited to, the following:

- Develop scientific computer programs for data acquisition and data reduction in support of wind tunnel, environmental, and flight research experiments.
- Consult with LaRC researchers in the preparation of technical memoranda defining computer systems and recommending procedures to increase efficiency and capability.
- Develop translators to provide information exchange between dissimilar platforms.
- Develop real-time software subsystems to allow control of laboratory tests.
- Prepare graphical presentations for both steady state and frequency analysis research data.
- Perform distributed systems analysis for computer systems located in research facilities at LaRC.

## C.7 - NEW TECHNOLOGY SUPPORT

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The Contractor shall provide new technology support which shall include, but is not limited to, the following:

- On an on-going basis, analyze technology trends and provide recommendations to be used in the Government's long-range planning process.
- Provide recommendations for continuously improving the day-to-day operation.

## C.8 - DOCUMENTATION

The Contractor shall prepare and maintain complete and comprehensive records for software programs, equipment operation, and equipment maintenance. Some documentation has been specified in previous sections. Additional documentation requirements shall include, but are not limited to, the following:

- **Operational Procedures**--The Contractor shall prepare, revise, and maintain documents for inclusion in the Operating Procedures Manual for equipment which is operated under this contract.
- **User Information**--The Contractor shall prepare material for inclusion in the CSCC user documentation. Examples of material to be provided are documentation of library subroutines, modifications to job submittal procedures, and other reference material related to the use of the computing and data handling equipment.
- **Performance Statistics**--The Contractor shall compile and summarize data in weekly reports which document the performance of CSCC equipment operations. Examples are reports of utilization, job work load, malfunctions, downtime, and throughput and turnaround time for processed jobs.
- **Computer Programs**--As part of assigned programming work orders, the Contractor shall provide the program documentation for computer programs which are developed under the contract.
- **Configuration Drawings**--The Contractor shall maintain and update configuration drawings of the CSCC systems maintained under this contract. Plotting systems of the Complex will be made available to the Contractor as an aid in producing and revising the drawings, which shall become the property of the Government. As part of the configuration drawings, the Contractor shall update and maintain power panel schedules for those power panels used for the equipment in Appendix A.







APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

CLIN	MODEL/ ITEM	PRODUCT DESCRIPTION	OEM	EFF. DATE	ST/ CON	MONTHLY MAINTENANCE COST								
						YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	
						BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG

1044	C-210-64	C2 SERIES PROC. W/64 MB MEMORY	CONV	090993	3/C									
1045	C220-28	C2 SERIES PROC. W/128 MB MEMORY	CONV	090993	3/C									
1046		RESERVED	/											
1047		RESERVED	/											
1048	MBS-004	MULTIBUS CHASSIS	CONV	090993	3/C									
1049	MBS-004	MULTIBUS CHASSIS	CONV	090993	3/C									
1050	VIOP-001	VME I/O PROCESSOR	CONV	090993	3/C									
1051	VBS-004	VME CHASSIS	CONV	090993	3/C									
1052	ACM-002	MULTIBUS ASYNE CONNECTION	CONV	090993	3/C									
1053	ACM-002	MULTIBUS ASYNE CONNECTION	CONV	090993	3/C									
1054	ETH-001	MULTIBUS ETHER-NET CONNECTION	CONV	090993	3/C									
1055	HYP-201	VME HYPERCHANNEL CONNECTION	CONV	090993	3/C									
1056	PRC-001	MULTIBUS PRINT-ER CONTROLLER	CONV	090993	4/C									
1057	MTD-102	HIGH PERF. TAPE DRIVE W/MULTI-TAPE DRIVE	CONV	090993	4/C									
1058	MTD-002	HIGH PERFORMAN. TAPE DRIVE	CONV	090993	3/C									
1059	MTD-002	HIGH PERFORMAN. TAPE DRIVE	CONV	090993	3/C									
1060	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1061	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1062	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1063	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1064	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1065	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1066	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									
1067	DKD-308	1 GB DISK DRIVE /VME CONTROLLER	CONV	090993	3/C									

APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM MONTHLY MAINTENANCE COST  
 YEAR 4 YEAR 5 YEAR 6 YEAR 7 YEAR 8  
 BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG

CLIN	PRODUCT DESCRIPTION	OEM	ST/ CON	YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG	YEAR 8 BMMC/CHRG
1068	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1069	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1070	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1071	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1072	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1073	8 /VME CONTROLLER	1 GB DISK DRIVE	CONV	090993	3/C						
1074	1 CHASSIS	REMOVABLE DISK	CONV	090993	3/C						
1075	2 CHASSIS	320 MB REMOV.	CONV	090993	3/C						
1076	4 DISK DR./CNTRL.	320 MB REMOV.	CONV	090993	3/C						
1077	4 DISK DR./CNTRL.	320 MB REMOVE-	CONV	090993	3/C						
1078	4 ABLE DRIVE	320 MB REMOVE-	CONV	090993	3/C						
1079	4 ABLE DRIVE	320 MB REMOVE-	CONV	090993	3/C						
1080	4 ABLE DRIVE	320 MB REMOVE-	CONV	090993	3/C						
1081	4 ABLE DRIVE	320 MB REMOVE-	CONV	090993	3/C						
1082	5 SPU REMOVEABLE DRIVE	SPU REMOVEABLE	CONV	090993	3/C						
1083	5 SPU REMOVEABLE DRIVE	320 MB REMOVE.	CONV	090993	3/C						
1084	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1085	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1086	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1087	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1088	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1089	4S DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						
1090	5S SPU REMOVEABLE DRIVE (ADDITL)	SPU REMOVEABLE	CONV	090993	3/C						
1091	5S SPU REMOVEABLE DRIVE (ADDITL)	320 MB REMOVE.	CONV	090993	3/C						

APPENDIX A. PART 1 COMPUTER HARDWARE ITEMS

MODEL/ PRODUCT	ITEM DESCRIPTION	OEM	EFF. DATE	ST/ CON	MONTHLY MAINTENANCE COST									
					YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG	YEAR 8 BMMC/CHRG		
1091	DKD-21 SPU REMOVEABLE 55 DRIVE (ADDITL)	CONV	090993	3/C										
1092	DKD-21 SPU REMOVEABLE 55 DRIVE (ADDITL)	CONV	090993	3/C										
1093	EAP-10 EXPANSION 1 CABINET	CONV	090993	3/C										
1094	EXP-10 EXPANSION 1 CABINET	CONV	090993	3/C										
1095	EXP-10 EXPANSION 1 CABINET	CONV	090993	3/C										
1096	SP-047 HIGH SPEED PRINTER	CONV	090993	3/C										
1097	VIOP-0 VME I/O 01 PROCESSOR	CONV	090993	3/C										
1098	VBS-00 VME CHASSIS 4	CONV	090993	3/C										
1099	ACM-00 MULTIBUS ASYNC CONNECTION	CONV	090993	3/C										
1100	ACM-00 MULTIBUS ASYNC CONNECTION	CONV	090993	3/C										
1101	ETH-00 MULTIBUS ETHER- NET CONNECTION	CONV	090993	3/C										
1102	HYP-20 VME HYPERCHANNEL CONNECTIONS	CONV	090993	4/C										
1103	PRC-00 MULTIBUS PRINT- ER CONTROLLER	CONV	090993	4/C										
1104	MTD-10 HIGH PERF. TAPE DRIVE W/MULTI-	CONV	090993	4/C										
1105	DKD-30 DISK DRIVE LGIG /VME CONTROLLER	CONV	090993	3/C										
1106	RDS-00 REMOVEABLE DISK CHASSIS	CONV	090993	3/C										
1107	EXP-10 EXPANSION CAB- INET	CONV	090993	3/C										
1108	SP-047 HIGH SPEED PRINTER	CONV	090993	3/C										
1109	A130 NSC TO CRAY ADAPTER	NSC	090993	3/D										
1110	A130 NSC TO CRAY ADAPTOR	NSC	090993	3/D										
1111	A130 NSC TO CRAY ADAPTOR	NSC	090993	3/D										
1112	A130 NSC TO CRAY ADAPTOR	NSC	090993	3/D										
1113	A400 NSC TO CONVEX ADAPTER	NSC	090993	3/D										
1114	A400 NSC TO CONVEX ADAPTER	NSC	090993	3/D										

APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM	DESCRIPTION	OEM	ST/ CON	EFF. DATE	MONTHLY MAINTENANCE COST*								
					YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	
CL-IN	PRODUCT				BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG
	ADAPTER												
1115	A400	NSC TO CONVEX	NSC	090993	3/D								
1116		RESERVED			/								
1117		RESERVED			/								
1118	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1119	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1120	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1121	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1122	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1123	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1124	AT50	50 MBYTE TRUNK	NSC	090993	3/D								
1125	T50A	COAX CABLE	NSC	090993	3/D								
1126	3/160S	SUN SYSTEM	SUN	090993	4/E								
1127	3/160S	8MG ADD. MEMORY	SUN	090993	4/E								
		-P8											
1128	AC-1	CABINET	NSC	090993	3/D								
1129	AC-1	CABINET	NSC	090993	3/D								
1130		RESERVED			/								
1131	AC-1	CABINET	NSC	090993	3/D								
1132		RESERVED			/								
1133		RESERVED			/								
1134		RESERVED			/								
1135		RESERVED			/								
1136		RESERVED			/								
1137		RESERVED			/								

APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MODEL/ CLIN	ITEM PRODUCT DESCRIPTION	OEM	EFF. DATE	ST/ CON	YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	MONTHLY MAINTENANCE COST		
										YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG	YEAR 8 BMMC/CHRG
1138	RESERVED			/								
1139	RESERVED			/								
1140	RESERVED			/								
1141	RESERVED			/								
1142	RESERVED			/								
1143	RESERVED			/								
1144	RESERVED			/								
1145	RESERVED			/								
1146	DS-40R DISK SUBSYSTEM	CRAY	090993	1/A								
1147	DS-40R DISK SUBSYSTEM	CRAY	090993	1/A								
1148	RESERVED			/								
1149	RESERVED			/								
1150	RESERVED			/								
1151	RESERVED			/								
1152	RESERVED			/								
1153	FEI-3S FRONT END INTERFACE	CRAY	090993	3/A								
1154	RESERVED			/								
1155	4480M2 TAPE CONTROL UNIT	STK	090993	1/B								
1156	4480M2 TAPE CONTROL UNIT	STK	090993	1/B								
1157	FC4411 FEATURE CODE	STK	090993	1/B								
1158	FC4411 FEATURE CODE	STK	090993	1/B								
1159	FC4412 FEATURE CODE	STK	090993	1/B								
1160	FC4412 FEATURE CODE	STK	090993	1/B								
1161	4480M2 CD CARTRIDGE	STK	090993	1/B								



APPENDIX A. PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM MONTHLY MAINTENANCE COST YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 YEAR 7 YEAR 8  
 CLIN PRODUCT DESCRIPTION OEM DATE CON BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG

1222 N862 MASSTOR STORAGE MASS 092893 3/B  
 CONTROLLER  
 INCL. 2ND CYBER  
 CHANNEL ACCESS  
 & MICRO-CODE

1223 M862 MASSTOR STORAGE MASS 092893 3/B  
 CONTROLLER  
 INCLUDES 2ND  
 CYBER CHANNEL  
 ACCESS & MICRO-  
 CODE /

1225 M861 MASSTOR STORAGE MASS 092893 3/B  
 MODULE  
 INCLUDES 2ND  
 DATA RECORDING  
 DEVICE /

1226 RESERVED /

1227 65206- FED STANDARD CDC 092893 3/B  
 1 CHANNEL ADAPT  
 INCL. QSE24523  
 CONTROLWARE AND  
 CABINET W/POWER  
 SUPPLY

1228 65206- FED STANDARD CDC 092893 3/B  
 1 CHANNEL ADAPT  
 INCL. QSE24523  
 CONTROLWARE AND  
 CABINET W/POWER  
 SUPPLY /

1229 RESERVED /

1230 65206- FED STANDARD CXC 092893 3/B  
 2 CHANNEL ADAPT  
 INCL. QSE24523  
 CONTROLWARE

1231 65206- FED STANDARD CDC 092893 3/B  
 2 CHANNEL ADAPT  
 INCL. QSE24523  
 CONTROLWARE /

1232 RESERVED /

1233 RESERVED /





APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM MONTHLY MAINTENANCE COST YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 YEAR 7 YEAR 8  
 CLIN PRODUCT DESCRIPTION OEM EFF. DATE ST/ CON BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG

1209	844-41	DISK STORAGE UNIT	CDC	092893	3/B								
1210	380-17	CYBER 170 NAD WITH ADD. LCN TRUNK CONNECTIONS & 64K BYTE MEMORY INCREMENTS	CDC	092893	3/B								
1211	380-17	CYBER 170 NAD WITH ADD. LCN TRUNK CONNECTIONS & 64K BYTE MEMORY INCREMENTS	CDC	092893	3/B								
1212	380-17	CYBER 170 NAD WITH ADD. LCN TRUNK CONNECTIONS & 64K BYTE MEMORY INCREMENTS	CDC	092893	3/B								
1213	7154-2	MASS STORAGE CONTROLLER INCLUDED MULTI ACCESS CONTROLLER OPT	CDC	092893	3/B								
1214	7154-2	MASS STORAGE CONTROLLER INCLUDED MULTI ACCESS CONTROLLER OPT	CDC	092893	3/B								
1215		RESERVED				/							
1216	679-7	ATS TAPE TRANS-PORT	CDC	092893	5/B								
1217		RESERVED				/							
1218	679-7	ATS TAPE TRANS-PORT	CDC	092893	5/B								
1219	679-7	ATS TAPE TRANS-PORT	CDC	092893	5/B								
1220	7021-3	ATS CONTROLLER W/MATRIX	CDC	092893	5/B								
1221	7021-3	ATS CONTROL. INCL. IN 1220	CDC	092893	5/B								

APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MONTHLY MAINTENANCE COST  
 YEAR 4 YEAR 5 YEAR 6 YEAR 7  
 BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG

MODEL/ ITEM	CLIN PRODUCT DESCRIPTION	OEM	EFF. DATE	ST/ CON	YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG
1234	RESERVED	/									
1235	RESERVED	/									
1236	RESERVED	/									
1237	553-1 REMOTE PRINT ST ATION	CDC	092893	3/B							
1238	RESERVED	/									
1239	RESERVED	/									
1240	RESERVED	/									
1241	556-1 REMOTE PRINT STATION	CDC	092893	3/B							
1242	180-86 CY180-86 MAINF 0A RAME & FEATURES INCLUDES 2000K MEM., 20 PPUS, 24 I/O CHANNEL PERFORMANCE OPTION, COOLING, POWER	CDC	092893	3/B							
1243	7165-2 MASS STORAGE 2 CONTROLLER	CDC	092893	3/B							
1244	7165-2 MASS STORAGE 2 CONTROLLER	CDC	092893	3/B							
1245	895-1 DISK STORAGE UNIT	CDC	092893	3/B							
1246	895-2 DISK STORAGE UNIT	CDC	092893	3/B							
1247	895-1 DISK STORAGE UNIT	CDC	092893	3/B							
1248	895-2 DISK STORAGE UNIT	CDC	092893	3/B							
1249	18002- DISPLAY CONSOLE 1 STATION	CDC	092893	3/B							
1250	18001- DATA CHANNEL 1 CONVERTER	CDC	092893	3/B							
1251	180-86 CY180-86 MAINF 0A RAME & FEATURES INCLUDES 8 MWDS MEM., 20 PPUS, 24 I/O CHANNEL, PERFORMANCE	CDC	092893	3/B							



APPENDIX A, PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM	CLIN PRODUCT DESCRIPTION	OEM	EFF. DATE	ST/ CON	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8
					BMCC/CHRG	BMCC/CHRG	BMCC/CHRG	BMCC/CHRG	BMCC/CHRG	BMCC/CHRG	BMCC/CHRG	BMCC/CHRG
					MONTHLY MAINTENANCE COST							
	MAINFRAME DEV- ICE INTERFACE AND 1MB MEMORY OPTION											
1274	2601-5 DEVICE INTER- FACE CABINET ASSEMBLY WITH ASYNC. TERMINAL DEVICE INTER- FACE, 1MB MEM- ORY OPTION	CDC	092893	3/B								
1275	RESERVED			/								
1276	2601-5 DEVICE INTER- FACE CABINET ASSEMBLY WITH MAINFRAME DEV- ICE INTERFACE AND 1MB MEMORY OPTION	CDC	092893	3/B								
1277	2601-5 DEVICE INTER- FACE CABINET ASSEMBLY WITH MAINFRAME DEV- ICE INTERFACE AND 1MB MEMORY OPTION	CDC	092893	3/B								
1278	2601-5 DEVICE INTER- FACE CABINET ASSEMBLY WITH MAINFRAME DEV- ICE INTERFACE AND 1MB MEMORY OPTION	CDC	092893	3/B								
1279	2601-5 DEVICE INTER- FACE CABINET ASSEMBLY WITH ASYNC. TERMINAL DEVICE INTER- FACE, 1MB MEM- ORY OPTION	CDC	092893	3/B								











APPENDIX A. PART 1 COMPUTER HARDWARE ITEMS

MODEL/ ITEM MONTHLY MAINTENANCE COST  
 CLIN PRODUCT DESCRIPTION OEM DATE EFF. ST/ CON YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5 YEAR 6 YEAR 7 YEAR 8  
 BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG BMMC/CHRG

CLIN	MODEL/ ITEM	PRODUCT DESCRIPTION	OEM	DATE	EFF.	ST/ CON	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8
							BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG
2	DRIVE													
1389	4480	TAPE CONTROL UNIT	STK	TBD		1/E								
1390	4480M2	CARTRIDGE TAPE DRIVE	STK	TBD		1/E								
1391	4480	TAPE CONTROL UNIT	STK	TBD		1/E								
1392	4480M2	CARTRIDGE TAPE DRIVE	STK	TBD		1/E								
1393	4410	LIBRARY STORAGE MODUL (01)	STK	TBD		1/E								
1394	4411	LIBRARY CONTROL UNIT	STK	TBD		1/E								
1395	9570	DISK ARRAY - 10 GIGABYTE	IBM	TBD		3/E								
1396	PS32-8	HIPPI SWITCH	NETW	TBD		3/E								
1397	V10P-0	VME IO PROCESSOR	CONV	121894		3/C								
1398	Y-MPIB E/B256	COMPUTER	CRAY	090993		1/A								
1399	11C	ADD'L I/O CLUST ER	CRAY	090993		1/A								
1400	DCA-1	DISK CHANNEL ADAPTER (16)	CRAY	090993		1/A								
1401	TCA-1	TAPE CHANNEL ADAPTER	CRAY	090993		1/A								
1402	CCA-1	COMMUN. CHANNEL ADAPTER	CRAY	090993		1/A								
1403	CCA-1	COMMUN. CHANNEL ADAPTER	CRAY	090993		1/A								
1404	SSDE/5 12	512 MWD SSD	CRAY	090993		1/A								
1405	HIPPI-100	100 MBYTE EXTER NAL CHANNEL	CRAY	090993		3/A								
1406	HIPPI-100	100 MBYTE EXTER NAL CHANNEL	CRAY	090993		3/A								
1407		ENGINEERING SUP PORT	CSC	090193		/								

Total Hardware Charge

... Null values indicate no separate pricing







APPENDIX A. PART 2 COMPUTER SOFTWARE ITEMS

MODEL/ ITEM	CLIN PRODUCT DESCRIPTION	OEM	DATE	EFF.	ST/ CON	YEAR 1	YEAR 2	YEAR 3	YEAR 4	MONTHLY MAINTENANCE COST			
										YEAR 5	YEAR 6	YEAR 7	YEAR 8

8	AGE, OPTION 1 INCLUDES IGES, DESIGN DRAFTING CURVES & SUR- FACES, NURBS, MULCAD, PADAMM													
6071	K14B-9 ICEM-CFD PACK- 00 AGE GEOMETRY SUBSET INCLUDES DESIGN DRAFTING CURVES & SUR- FACES, NURBS	CDC	09289;											
6072	K14B-9 ICEM-GPL 20	CDC	09289;											
6073	ADA-00 ADA COMPILER 1-200		121894											
6074	NFS-00 NETWORKING FILE 1-200 SYSTEM	CONV	121894											
6075	CXW-00 CXWINDOWS SOFT. 2-200	CONV	121894											
6076	NET-00 CONVEX INTERNET 1-3800 SERVICES	CONV	121894											
6077	UNG-20 CONVEX OS 2-3800 (32 USERS)	CONV	121894											
6078	ARTS INTERFACE SOFT. DRIVER	CONV	121894											
6079	NFS-00 NETWORK FILE 1-3800 SYSTEM	CONV	121894											
6080	UXE-00 UXE REAL TIME 1-3800 OS	CONV	121894											
6081	CXW-00 XWINDOWS 2-3800 OS	CONV	121894											
6082	CFT-00 CONVEX FORTRAN 1-3800 COMPILER	CONV	121894											
6083	UNG-20 CONVEX OS 2-200 (32 USERS)	CONV	121894											
6084	NET-00 CONVEX INTERNET 1-200 SERVICES SOFT.	CONV	121894											
6085	CFT-00 CONVEX FORTRAN 1-200 COMPILER	CONV	121894											
6086	COS-00 CONVEX CONSUL- 4-200 TANT	CONV	121894											
6087	UNG-10 CONVEX OS CODE 0-200	CONV	121894											
6088	CXB-00 CONVEX BATCH 1-200 PROCESSING	CONV	121894											

APPENDIX A, PART 2 COMPUTER SOFTWARE ITEMS

MODEL/ CLIN PRODUCT	ITEM DESCRIPTION	OEM	EFF. DATE	ST/ CON	MONTHLY MAINTENANCE COST*									
					YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG	YEAR 8 BMMC/CHRG		
6089	UIDD-00 USER WRITTEN 1-200 DEVICE DRIVER	CONV	121894	N/C										
6090	ICR-99 ICR PASCAL 9	ICR	121894	N/C										
6091	ARTS INTERFACE SOFTWARE DRIVER	CONV	121894	N/C										
6092	UXE-00 UXE REAL-TIME OPERATING SYS.	CONV	121894	N/C										
6093	RESERVED	/												
6094	CXB-00 CXBATCII 1-200	CONV	090993	N/C										
6095	CXB-00 CXBATCII 1-200	CONV	090993	N/C										
6096	CXB-00 CXBATCII 1-3800	CONV	TBD	N/C										
6097	CTB-00 TOOLBOX 1-200	CONV	090993	N/C										
6098	CTB-00 TOOLBOX 1-200	CONV	090993	N/C										
6099	CSS-00 SHANE 1-200	CONV	090993	N/C										
6100	RESERVED	/												
6101	CSD-00 CONSULTANT 4-3800	CONV	TBD	N/C										
6102	UNICOS UNICOS SYSTEM SOFTWARE	CRAY	090993	N/A										
6103	CF77 CF77 COMPILER	CRAY	090993	N/A										
6104	PASCAL PASCAL COMPILER	CRAY	090993	N/A										
6105	STANDA STANDARD C RD C COMPILER	CRAY	090993	N/A										
6106	CAL. CRAY ASSEMBLY LANGUAGE	CRAY	090993	N/A										
6107	TCP/IP NETWORK PROTO- COL SOFTWARE		090993	N/E										
6108	NFS NETWORK FILE SERVER	CRAY	090993	N/A										
6109	DMF DATA MIGRATION FACILITY	CRAY	090993	N/A										

Total Software Charge

... Null values indicate no separate pricing

APPENDIX A. PART 3 ENVIRONMENTAL ITEMS

CLIN	MODEL/ PRODUCT DESCRIPTION	ITEM	OEM	EFF. DATE	ST/ CON	MONTHLY MAINTENANCE COST					YEAR	
						YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5		YEAR 6
						BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG	BMMC/CHRG
8000	L21288	KATO MOTOR	KATO	090993	1/E							
	0001	GENERATOR										
8001		RESERVED			/							
8002	YMP	HEAT EXCHANGE	CRAY	090993	1/A							
		UNIT										
8003	66 TON	REFRIGERATION	COPE	090993	1/E							
		CONDENSING UNIT										
8004	CRAY2	COOLANT	CRAY	090993	2/A							
		RESERVOIR										
8005	L21288	KATO MOTOR	KATO	090993	2/E							
	0001	GENERATOR										
8006	L21288	KATO MOTOR	KATO	090993	2/E							
	0001	GENERATOR										
8007	L21288	KATO MOTOR	KATO	090993	2/E							
	0001	GENERATOR										
8008	CRAY2	SUPPORT HEAT	CRAY	090993	2/A							
		EXCHANGER POD										
8009	CRAY2	MASTER HEAT	CRAY	090993	2/A							
		EXCHANGER POD										
8010		RESERVED			/							
8011		RESERVED			/							
8012	533698	EMERGENCY OFF	CDC	092893	3/B							
	00	CONTROL										
8013	GH445	MG CONTROLLER	AUTO	092893	3/E							
8014	230483	COMPUTER POWER	CDC	092893	3/B							
	00	CONTROL										
8015	GE268	MOTOR GEN SET	KATO	092893	3/E							
		40KVA										
8016		RESERVED			/							
8017		RESERVED			/							
8018	181640	TERMINATOR	CDC	092893	3/B							
	00	POWER SUPPLY										
8019	181828	TERMINATOR	CDC	092893	3/B							
	00	POWER SUPPLY										
8020		RESERVED			/							
8021		RESERVED			/							
8022	GE268	MOTOR GEN SET	KATO	092893	3/E							
		40KVA										
8023	GH445	MG CONTROLLER	EM	092893	3/E							



APPENDIX A. PART 3 ENVIRONMENTAL ITEMS

MONTHLY MAINTENANCE COST  
 YEAR 4 YEAR 5 YEAR 6 YEAR 7 YEAR 8  
 BMMC/CIIRG BMMC/CIIRG BMMC/CIIRG BMMC/CIIRG BMMC/CIIRG

MODEL/ ITEM  
 CLIN PRODUCT DESCRIPTION OEM DATE CON ST/

MODEL/ ITEM	CLIN PRODUCT DESCRIPTION	OEM	DATE	CON	ST/	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8
						BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG	BMMC/CIIRG
8000	L21288 KATO MOTOR	KATO	090993	1/E									
	0001 GENERATOR				/								
8001	RESERVED												
8002	YMP HEAT EXCHANGE	CRAY	090993	1/A									
	UNIT												
8003	60 TON REFRIGERATION	COPE	090993	1/E									
	CONDENSING UNIT												
8004	CRAY2 COOLANT	CRAY	090993	2/A									
	RESERVOIR												
8005	L21288 KATO MOTOR	KATO	090993	2/E									
	0001 GENERATOR												
8006	L21288 KATO MOTOR	KATO	090993	2/E									
	0001 GENERATOR												
8007	L21288 KATO MOTOR	KATO	090993	2/E									
	0001 GENERATOR												
8008	CRAY2 SUPPORT HEAT	CRAY	090993	2/A									
	EXCHANGER POD												
8009	CRAY2 MASTER HEAT	CRAY	090993	2/A									
	EXCHANGER POD												
8010	RESERVED				/								
8011	RESERVED				/								
8012	533698 EMERGENCY OFF	CDC	092893	3/B									
	00 CONTROL												
8013	GH445 MG CONTROLLER	AUTO	092893	3/E									
8014	230483 COMPUTER POWER	CDC	092893	3/B									
	00 CONTROL												
8015	GE268 MOTOR GEN SET	KATO	092893	3/E									
	40KVA												
8016	RESERVED				/								
8017	RESERVED				/								
8018	181640 TERMINATOR	CDC	092893	3/B									
	00 POWER SUPPLY												
8019	181828 TERMINATOR	CDC	092893	3/B									
	00 POWER SUPPLY												
8020	RESERVED				/								
8021	RESERVED				/								
8022	GE268 MOTOR GEN SET	KATO	092893	3/E									
	40KVA												
8023	GH445 MG CONTROLLER	EM	092893	3/E									

APPENDIX A, PART 3 ENVIRONMENTAL ITEMS

MODEL/ CLIN PRODUCT DESCRIPTION	ITEM	OEM	EFF. DATE	ST/ CON	YEAR 1 BMMC/CHRG	YEAR 2 BMMC/CHRG	YEAR 3 BMMC/CHRG	YEAR 4 BMMC/CHRG	YEAR 5 BMMC/CHRG	YEAR 6 BMMC/CHRG	YEAR 7 BMMC/CHRG	YEAR 8 BMMC/CHRG	MONTHLY MAINTENANCE COST												
													YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8					
8024	GE268	MOTOR GEN SET 40KVA	KATO	092893	3/E																				
8025	GH445	MG CONTROLLER	AUTO	092893	3/E																				
8026	673284 62	SYSTEM POWER MONITOR	CDC	092893	3/B																				
8027	GH252	CHILLED WATER UNIT	CDC	092893	3/B																				
8028	533698 00	EMERGENCY OFF CONTROL	CDC	092893	3/B																				
8029		RESERVED			/																				
8030	533698 00	EMERGENCY OFF CONTROL	CDC	092893	3/B																				
8031	GE268	MOTOR GEN SET 40KVA	EM	092893	3/E																				
8032	GH445	MG CONTROLLER	AUTO	092893	3/E																				
8033	GH252	CHILLED WATER UNIT	CDC	092893	3/B																				
8034	673284 62	SYSTEM POWER MONITOR	CDC	092893	3/B																				
8035		RESERVED			/																				
8036		RESERVED			/																				

Total Environmental Charge

\*\*\* Null values indicate no separate pricing

APPENDIX B

Acronyms

ACD	Analysis and Computation Division
ACS	Access Control System
ADPE	Automated Data Processing Equipment
ARTSS	Advanced Real-Time Simulation Subsystem
ATM	Asynchronous Transfer Mode
BAFO	Best And Final Offer
BMMC	Basic Monthly Maintenance Charge
CAD	Computer Aided Design
CBX	Computerized Branch Exchange
CDDI	Copper Distributed Data Interface
CLIN	Contract Line Item Number
CSCC	Central Scientific Computing Complex
DCM	Division Computing Manager
DPA	Delegation of Procurement Authority
DVAL	Data Visualization and Animation Laboratory
EMS	Environmental Monitoring System
FAR	Federal Acquisition Regulation
FCO	Field Change Order
FDDI	Fiber Distributed Data Interface
FMR	Facility Malfunction Report
F.O.B.	Free on Board
FSCS	Flight Simulation Computing Subsystem
FTS	Federal Telecommunications System
GDCM	Graphic Data Center Manager
GEOLAB	Geometry Laboratory
GFE	Government Furnished Equipment
HVAC	Heating, Ventilation, and Cooling
Hz	Hertz
IPGP	Installation Provided Government Property
LCN	Loosely Coupled Network
LaRC	Langley Research Center
LaRCNET	LaRC Local Area Network
LaRCVIN	LaRC Video Network
LaTS	LaRC Telecommunications System
M-G	Motor-Generator
MPP	Massively Parallel Processor
NAS	Numerical Aerodynamic Simulator
NCS	NOS Computing Subsystem
NFS	NASA FAR Supplement
NOS	Network Operating System
NQS	Network Queueing System
OAS	Optical Archival System

OCO	Operations Control Office
OEM	Original Equipment Manufacturer
OPM	Operational Procedure Memorandum
PSCN	Program Support Communications Network
PM	Preventive Maintenance
PPM	Principle Period of Maintenance
RFP	Request For Proposal
SCOMAC	Scientific Computing, Operations, Maintenance, and Communications Services
SEB	Source Evaluation Board
SMDS	Switched Multi-Megabit Data Service
SMR	System Malfunction Report
SNS	Supercomputing Network Subsystem
SOW	Statement Of Work
SPR	Software Program Report
SSO	Source Selection Official
ST	Status
SVS	Scientific Visualization System
UPS	Uninterruptible Power Supply
WORM	Write-Once-Read-Many

EXHIBIT B  
CONTRACT DOCUMENTATION REQUIREMENTS

EXHIBIT B - CONTRACT DOCUMENTATION REQUIREMENTS

I. DOCUMENTATION 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 of NASA Form 533M. The form shall be prepared and submitted in accordance with the instructions set forth on the reverse side of the form and NASA Handbook "Procedures for Contractor Reporting of Correlated Cost and Performance Data" (NHB 9501.2) as further definitized below.

Each 533M shall specify the actual monthly maintenance charge for each CLIN. The Contractor shall provide upon request data to support that the specified actual monthly charges were the lowest of the three prices referenced in H.18.

1. Due not later than the 10th operating day following the close of the Contractor's accounting month being reported.

2. Columns 7.b. and d. shall be completed using the time-phased financial baseline plan approved as part of the Management and Operations Plan.

3. Columns 8.a. and b. shall be completed using estimates (forecasts) for the succeeding two months.

4. Minimum reporting categories:

Direct Productive LOE Labor Hours:

- Straight Time Hours
- Overtime Hours
- Subcontract Hours (I-NET)
- Subcontract Hours (Other)
- Total LOE Hours

Non-LOE Hours

Direct Productive LOE Labor Cost:

- Straight Time Costs
- Overtime (w/o premium) Costs
- Overtime Premium
- Subcontract Costs (I-NET)
- Subcontract Costs (Other)
- Total LOE Costs

Non-LOE Labor Costs

Overhead

System Maintenance

ODCs:  
 Specified Other Direct Costs  
 Company Specific:  
   Travel  
   Training  
   Recruiting and Relocation  
   Facility  
   Miscellaneous  
   Subtotal  
  
 Total ODCs

G&A

Total Cost

Award Fee

Phase-In

Total

5. Each 533M shall include a narrative explanation for monthly variances exceeding 10 percent between planned hours and dollars and actual hours and dollars for each reporting category.

6. Each 533M shall include an attachment which details by month and by reporting category the Contractor's current estimate to complete the contract (this should equal the sum of Columns 7c, 8a, 8b, and 8c).

7. The total level-of-effort subcontract cost category should be supported by a separate 533M completed by your subcontractor.

B. Quarterly Financial Management Report--The Contractor shall submit a quarterly financial report detailed by categories specified in A.4 above on NASA Form 533Q at times and in accordance with the instructions contained on the reverse side of the form.

C. Management and Operations Plan--Within 30 calendar days after contract award, the Contractor shall submit for the Contracting Officer's approval a comprehensive Management and Operations Plan containing, as a minimum, the following:

1. Continuing Plan--Detailed plans for maintaining competent staffing at each organizational level. These plans shall include the methods to be employed in accommodating fluctuating workloads, for backup arrangements to accommodate personnel absences, for personnel training and for recruiting replacements and additional personnel. Include management policies which contribute to employee retention, morale, and productivity, such as career development, fringe benefits, leave, salary, employee recognition, and recognizing and correcting morale problems. Include your company policies for the recruitment, hiring, training, and career development of individuals with disabilities. Also, include program(s) for motivating and incentivizing employees to continuously improve and increase productivity.

2. Technical Operations Plan--Plans for organizing, assigning resources, and performing each task area outlined in the Statement of Work; tracking and controlling the work; recognizing and reporting technical problems and schedule slippages and follow-up on reported problems. In addition, include a brief description of: the proposed method of controlling actual versus planned costs; procurement functions to be performed at the Contractor's facility/home office; your purchasing practices and procedures; plans for selecting, monitoring and administering any proposed subcontract effort; and plans for maintaining operational status of Contractor-furnished Items and Government-furnished Equipment.

3. Contractor's Facility--Location, general description, and interior layout of the facility, including lease and/or purchase agreements, the method planned for maintaining full operational capability of the facility.

4. Organization--An organization chart and narrative describing the proposed organization, Contractor/Government interfaces, lines of authority within the organization, and responsibilities and authority of the Key Personnel including a discussion of the proposed managerial authority, autonomy and relationship with the "home office," if applicable.

5. Financial Baseline Plan--A time-phased financial baseline plan, detailing by month how you plan to incur cost for the period, shall be submitted for the initial contract period (24 months). Financial baseline plans for each of the remaining option periods (except for the six one-month option periods) shall be submitted within 10 days of the effective date of the option being exercised. 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 and level of effort reflected in the baseline plans must equal the contract values for the total contract period.

The Management and Operations Plan shall be updated as required during the contract performance by submission of revised pages for approval of the Contracting Officer.

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, Contractor, and subcontractor employees as well as property and equipment. This plan, as approved by the Contracting Officer, shall be in accordance with NASA FAR Supplement 18-52.223-73 and 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 motivated employees to be safety conscious.

3. LaRC Safety Policies/Procedures - Recognition of 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 including immediate notification to the NASA LaRC Safety Manager of all injuries and damage to equipment or facilities.

5. Hazardous Operations -

(a) Description of hazardous operations involved 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. Equipment Inspection/Repair - Procedures for equipment safety inspection and repair.

7. Other Safety Considerations - Any other safety considerations unique to your operation.

E. Quarterly Accident/Injury Report--The Contractor shall submit a Quarterly Accident/Injury Report within 10 days after the end of each quarter.

F. Monthly Progress Report--The Contractor shall submit a monthly progress report summarizing work progress, manpower utilization for assigned work orders, and material expenditures. This report shall be submitted within 10 days following the end of the reporting period.

G. Monthly Staffing Report--The Contractor shall submit a monthly report listing the staffing for that month for each organizational task area.

H. Quarterly Overtime Utilization Report--The Contractor shall submit a summary of overtime utilization by task area with an explanation for the use. This report shall be submitted within 10 days following the end of the quarter.

I. Conformable Wage Rate Agreement--Within 15 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 F.

J. 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.

K. Report of Government-Owned/Contractor Held Property (NASA FORM 1018)-- The Contractor shall submit the NASA Form 1018 no later than July 31 of each year in accordance with the Section I clause entitled "Financial Reporting of Government-owned/Contractor-held Property."

L. Documentation for Transferring Property to the Government

In accordance with the Installation-Provided Government Property clause of this contract, accountability for that property which is acquired for the Government under this contract shall be passed to the Government using the following procedure:

The transfer of accountability shall be initiated by the Contractor submitting a Requisition and Invoice/Shipping Document, DD Form 1149, accompanied by a copy of the Contractor's applicable purchasing and receipt document for the property. The Contractor shall insert both the Contractor's Subcontract/ Purchase Order number and the Government contract number on the DD Form 1149 under the "Federal Stock Number, Description, and Coding of Material and/or Services" block. For purchases of supplies and materials, this document shall be submitted within 30 days after the end of each calendar-year quarter (that is, not later than January 30, April 30, July 30, and October 30). For equipment purchases, this document shall be submitted within five workdays after acceptance of each item of equipment by the Contractor. Receipt by the Contractor of a copy of the DD Form 1149 signed by the Government relieves the Contractor of accountability for the property specified on that form.

M. Subcontracting Reports--The Contractor shall submit Standard Form 294, Subcontracting Report for Individual Contracts, Standard Form 295, Summary Subcontractor Report, and NASA Form 667, Report on NASA Subcontracts, in accordance with the instructions on the reverse of the form. In addition to other instructions on the reverse of the SF 294, the Contractor is required to submit the reports at the end of each calendar quarter (March, June, September, and December) and to report awards to Women-Owned (W-O) business, Historically Black Colleges and Universities (HBCU's) and other Minority Educational Institutions (MEI's). This information shall be detailed in Block 18 as follows:

Subcontract awards to small W-O businesses this report period: \$

Subcontract awards to HBCU's and/or MEI's this reporting period: \$

The total subcontract dollars to W-O businesses, HBCU's, and MEI's shall be included in Blocks 15a and 16.

In addition to the instructions on the reverse of the SF 295, the Contractor is required to comply with Clause 18-52.219-75, Small and Small Disadvantaged Subcontracting Reporting.

N. Award Fee Self-Evaluation Report--Within 10 working days after the conclusion of each award fee evaluation period, the Contractor shall submit a report that summarizes the major work accomplishments including positive and negative aspects of performance and analyzes actual versus planned costs and hours. The summary of the major work accomplishments should include sufficient detail to identify the work and explain the Contractor's accomplishments. This summary should also address the overall performance of the various elements of the Central Scientific Computing Complex (CSCC) and reflect Contractor performance in CSCC operation, and maintenance, communications, and distributed computing and data reduction system area. Employee turnover figures should be included as well. The analyses of actual versus planned costs and hours should address each of the categories described in the Financial Management Reports section of this Exhibit.

This analysis shall be for the award fee evaluation period only, and shall consist of only total contract values (not for each work order). A narrative explanation for each significant variance shall also be included.

O. Skill Mix and Wage Report--Within 30 calendar days after the effective date of the contract and annually thereafter, the Contractor shall submit a skill mix and wage report to include the following: (1) employee name listed alphabetically; (2) current hourly labor rate; and company job title. Follow-up reports shall be submitted within 30 calendar days following the end of each contract year to include the above information as well as the hourly labor rate and percentage of labor escalation (if any) from the previous report, and the amount of any bonuses received.

Company job titles different from the Government job titles specified in RFP 1-41-1100.1015 shall be cross referenced (unless new or additional) to the Government titles. Each report shall include an explanation for any labor escalation, which exceeds 2.25 percent.

P. Award Fee Evaluation Plan--The award fee plan will include separate criteria in which to evaluate the Contractor's continuous improvement achievements during each six-month evaluation period. Accordingly, the Contractor shall submit the following:

1. Identification and description of the continuous improvement area(s) to be considered for award fee evaluation.
2. Quantification of the expected tangible improvements.
3. Identification of the applicable metrics to be used to measure actual achievement of the improvements.
4. Milestones for development and implementation of the improvements.
5. Summary of Contractor's achievements associated with meeting identified continuous improvement objectives.

Items 1 through 4 should be submitted for each of the six-month evaluation period and should be received by the Government no later than 15 working days after the start of each evaluation period. Item 5 shall be submitted to the Government along with the Award Fee Self-Evaluation Report (Ref. Paragraph N above), which is due within 10 working days after the conclusion of each award fee evaluation period.

Q. Miscellaneous Documentation--The Contractor shall provide additional documentation as specified in Section C.8 - Documentation of the Statement of Work.

## II. DOCUMENT DISTRIBUTION REQUIREMENTS--ALTERNATE I (LaRC 52.210-96) (JUN 1988)

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

National Aeronautics and Space Administration  
Langley Research Center  
Attn: \_\_\_\_\_, Mail Stop \_\_\_\_  
Contract NAS1-20048  
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:

- A--Contract Specialist, Mail Stop 126
- B--Contracting Officer Technical Representative, Mail Stop 1570
- C--New Technology Representative, Mail Stop 200
- D--Cost Accounting, Mail Stop 135
- E--Safety Manager, Mail Stop 429
- F--Industry Relations Representative, Mail Stop 144
- G--Programs and Resources Division, Mail Stop 104
- H--Patent Counsel, Mail Stop 143
- I--Industrial Property Office, Mail Stop 377
- J--According to instructions on form
- K--Management Resources Office, Mail Stop 105

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:

<u>DOCUMENT</u>	<u>LETTER CODE AND DISTRIBUTION</u>
Financial Management Report (NASA Forms 533M and 533Q)	A-1, B-2, D-2, K-1, G-1
Management and Operations Plan and Revisions	A-1, B-6
Safety and Health Plan and Revisions	A-1, B-2, E-1
Monthly Progress Report	A-1, B-10
Quarterly Accident/Injury Report	A-1, B-1, E-1
Monthly Staffing Report	A-1, B-4
Quarterly Overtime Utilization Report	A-1, B-6

Conformable Wage Rate Agreement	A-1, B-1, F-1
New Technology Report	C-1, H-1
Collective Bargaining Agreement	A-1, B-1, F-1
Report of Government-Owned/Contractor Held Property (NASA Form 1018)	A-1, B-3, I-4
Subcontracting Report for Individual Contracts (Standard Form 294)	A-1
Summary Subcontractor Report (Standard Form 295)	A-1, J
Report on NASA Subcontracts (NASA Form 667)	A-1, J
Requisition and Invoice/Shipping Document (DD Form 1149)	I-1
Skill Mix and Wage Report	A-1
Award Fee Self-Evaluation Report	A-1, B-1
Award Fee Evaluation Plan	A-1, B-1

D. 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 C  
GOVERNMENT-FURNISHED PROPERTY

The following items will be furnished on or about September 1, 1993.

DESCRIPTION	QTY	U/I	TOTAL VALUE
AUDIOVISUAL CART. 2 SHELF. OAK. HAYNES	1	EA	228.00
BEEPER. METROMEDIA. S/N BD4BSY4XVK	1	EA	142.00
BEEPER. METROMEDIA. S/N BD4XSQXCJG	1	EA	100.00
BEEPER. METROMEDIA. S/N BE4BSU3JI9	1	EA	150.00
BEEPER. METROMEDIA. S/N BE4BSU3JV3	1	EA	150.00
BEEPER. MOTOROLA BRAVO. S/N 334BPS7M52	1	EA	135.00
BEEPER. MOTOROLA BRAVO. S/N 334BPY8U17	1	EA	135.00
BEEPER. MOTOROLA BRAVO. S/N 334BPY8U33	1	EA	135.00
BEEPER. MOTOROLA BRAVO. S/N 334BPY8U47	1	EA	135.00
BEEPER. MOTOROLA BRAVO. S/N 334BPY8U52	1	EA	135.00
BEEPER. MOTOROLA ENVOY. S/N 616BNZ0D58	1	EA	89.00
BEEPER. MOTOROLA ENVOY. S/N 616BNZ0D64	1	EA	89.00
BEEPER. MOTOROLA ENVOY. S/N 616BNZ0D75	1	EA	89.00
BEEPER. MOTOROLA ENVOY. S/N 616BNZ0D76	1	EA	89.00
BEEPER. MOTOROLA ENVOY. S/N 616BNZ0E04	1	EA	89.00
BLACKBOARD. 2x3 FT.	1	EA	20.00
BLACKBOARD. 3x4 FT.	2	EA	36.00
BLACKBOARD. 3x5 FT.	6	EA	194.00
BLACKBOARD. 4x6 FT.	4	EA	261.00
BOOKCASE. 2 SHELF	9	EA	373.00
BOOKCASE. 3 SHELF	23	EA	2,303.00
BULLETIN BOARD. 1-1/2x2 FT., QUARTET	1	EA	12.00
BULLETIN BOARD. 2x3 FT.	37	EA	368.00
BULLETIN BOARD. 3x4 FT.	4	EA	70.00
CABINET. 2 DOOR. GREY. ALL STEEL	2	EA	139.00
CABINET. 2 UNITS. BLACK. DEN. NAT'L	1	EA	334.00
CALCULATOR. CASIO M/N FR-105S. S/N	1	EA	30.00
CALCULATOR. RADIO SHACK EC-4031. SOLAR	1	EA	25.00
CALCULATOR. SHARP EL2630A. S/N 18058396	1	EA	75.00
CALCULATOR. TI542. W/TAPE. TEXAS INST.	1	EA	81.00
CAMERA. POLAROID AE100 W/FLASH	1	EA	144.00
CART. 3 SHELF. BROWN	1	EA	105.00
CHAIR. ARM. BEIGE. TEAK	3	EA	434.00
CHAIR. CONFERENCE	45	EA	2,780.00
CHAIR. EXECUTIVE	10	EA	2,219.00
CHAIR. FOLDING. GREEN SAMSONITE	4	EA	48.00
CHAIR. STENO	13	EA	1,692.00
CHAIR. SWIVEL W/ARMS	15	EA	1,566.00
CHASSIS. EXPANSION. SIGMA INFO. S/N 2200	1	EA	1,986.00
CISCO SYS.. M/N ASM/232EM. S/N A1288Y329	1	EA	9,920.00
CLOCK. WALL	3	EA	63.00
COMPUTER. BSI 486DX2. S/N X393811	1	EA	1,771.00
COMPUTER. BSI FD-556FR. S/N Q854239	1	EA	1,283.00
COMPUTER. COMPAQ DPRO. S/N 4606053B0002	1	EA	2,813.00
COMPUTER. DFI. S/N 91110821	1	EA	1,326.00
COMPUTER. DFI. S/N 91110824	1	EA	1,326.00
COMPUTER. GATEWAY 2000. 33C. S/N 343835	1	EA	2,995.00
COMPUTER. IBM 5170. S/N 01205235170	1	EA	5,362.00
COMPUTER. IC. M/N IC386. S/N 903836	1	EA	1,530.00
COMPUTER. MICROSERVE 286. S/N 61211015	1	EA	1,200.00
COMPUTER. MICROSERVE 286. S/N 61211021	1	EA	1,200.00
COMPUTER. NCD 88K. S/N 0293K118078	1	EA	1,579.00

DESCRIPTION	QTY	U/I	TOTAL VALUE
COMPUTER. NEWPORT NMI 286. S/N NMI5145	1	EA	1,375.00
COMPUTER. SUN 47B. S/N 221M2967	1	EA	8,566.00
COMPUTER. SUN MICRO 147B4. S/N 029F0237	1	EA	11,726.00
COMPUTER W/KEYB. DEC VT220. S/N TA13254	1	EA	461.00
CONSOLE. MICROSERVE 286. S/N 61208161	1	EA	2,155.00
CREDENZA, 2 DR., BROWN	1	EA	259.00
DATA. RACK, BLACK/WALNUT, WILSON JONES	1	EA	94.00
DESK. SINGE PEDESTAL. WOOD	1	EA	80.00
DESK. W/RETURN, PUTTY/WALNUT, STEELCASE	1	EA	718.00
DISK DRIVE. CDROM. M/N 411. S/N 125G5017	1	EA	556.00
DISK DRIVE. TOTAL TEC SYSTEMS. S/N 36767	1	EA	4,883.00
DISPLAY. AAMAZING 8484EX. S/N KAMIH01405	1	EA	307.00
DISPLAY. CASPER TE5154. S/N 89017247	1	EA	399.00
DISPLAY. COMPAQ DESKPRO. S/N DMA9B4429	1	EA	200.00
DISPLAY. GATEWAY PMV1448. S/N T9797333	1	EA	395.00
DISPLAY. HITACHI HM41195. S/N 021CN0397	1	EA	2,500.00
DISPLAY. IMTEC 1256A. S/N 90502249	1	EA	75.00
DISPLAY. IMTEC 1256A. S/N 90703468	1	EA	75.00
DISPLAY. NCD HM-4419-D. S/N 415110-88	1	EA	1,925.00
DISPLAY. SAMSUNG CVM4963. S/N 10201291	1	EA	318.00
DISPLAY. SUN GDM1962B. S/N 9214DX0730	1	EA	400.00
DISPLAY. TATUNG CM14SBS. S/N 12410555	1	EA	290.00
DISPLAY. TATUNG VM3401. S/N 2710046	1	EA	275.00
DISFLAY UNIT. CORDATA. S/N 1092201320	1	EA	469.00
DISPLAY UNIT. CORDATA. S/N 1092201328	1	EA	469.00
DISPLAY UNIT. CTX 5468A. S/N 14803234	1	EA	350.00
DISPLAY UNIT. IBM 5153. S/N 0163693	1	EA	470.00
DRAWING BOARD. KOH-I-NOOR	1	EA	31.00
FAX MACH.. FUJITSU DEX170. S/N 334301165	1	EA	970.00
FILE. 16 DR., GREY	1	EA	180.00
FILE. 2 DRAWER	7	EA	666.00
FILE. 3 TIER. GREY	1	EA	175.00
FILE. 4 DRAWER	10	EA	1,746.00
FILE. 5 DRAWER	2	EA	250.00
FILE. FIRESAFE. W/LOCK. GREY. SCHWAB	1	EA	1,191.00
FOOTREST. KEYPUNCH. WRIGHTLINE	2	EA	22.00
HAND TRUCK. RED	1	EA	15.00
HAYES SMARTMODEM 1200. S/N A05868023754	1	EA	348.00
HAYES SMARTMODEM 1200. S/N A05868023769	1	EA	348.00
HAYES SMARTMODEM 1200. S/N A05868023791	1	EA	348.00
HAYES SMARTMODEM 1200. S/N A05868023798	1	EA	348.00
HEATER. PORTABLE. ARVIN	2	EA	36.00
KEYBOARD. BELTRON. S/N 512655	1	EA	90.00
KEYBOARD. BELTRON. S/N 512656	1	EA	90.00
KEYBOARD. BSI FKB4700-101. S/N HY483316	1	EA	40.00
KEYBOARD. BTC 5060. S/N 61126824	1	EA	50.00
KEYBOARD. BTC 5060. S/N 70427586	1	EA	50.00
KEYBOARD. DELL AT101	1	EA	75.00
KEYBOARD. FUJITSU FKB4700. S/N HX475778	1	EA	44.00
KEYBOARD. GATEWAY. S/N 92117749	1	EA	99.00
KEYBOARD. IBM. S/N 262091659	1	EA	50.00
KEYBOARD. LITEON SK0021U. S/N K910906553	1	EA	55.00



DESCRIPTION	QTY	U/I	TOTAL VALUE
KEYBOARD. LITEON SK0021U. S/N K910906560	1	EA	65.00
KEYBOARD. MAXI-SWITCH. S/N 00002030	1	EA	89.00
KEYBOARD. MAXI-SWITCH. S/N 00541709	1	EA	53.00
KEYBOARD. MAXI-SWITCH. S/N 129096	1	EA	89.00
KEYBOARD. MAXI-SWITCH. S/N 170816	1	EA	89.00
KEYBOARD. MAXI-SWITCH CO.. S/N 00002030	1	EA	89.00
KEYBOARD. MITSUMI. S/N 8902090508	1	EA	105.00
KEYBOARD. MITSUMI. S/N 8902090510	1	EA	105.00
KEYBOARD. MITSUMI. S/N 8902091193	1	EA	105.00
KEYBOARD. MITSUMI. S/N 8902-090728	1	EA	105.00
KEYBOARD. MTEC K104. S/N KB20668112	1	EA	50.00
KEYBOARD. MTEK. M/N K104. S/N-KB20668119	1	EA	70.00
KEYBOARD. M/N JCC-101FX. S/N 0192496	1	EA	90.00
KEYBOARD. NCD N-97. S/N C0120668	1	EA	83.00
KEYBOARD. ORNICRON 101 KEY S/N 80818317	1	EA	105.00
KEYBOARD. ORNICRON BTC5339. S/N 80303269	1	EA	100.00
KEYBOARD. ORNICRON BTC5339. S/N 80818624	1	EA	100.00
KEYBOARD. ORTEK MCK-101FX. S/N 1009845	1	EA	75.00
KEYBOARD. SAMSUNG E0345XTAT. S/N 0779046	1	EA	150.00
KEYBOARD. SAMSUNG E0345XTAT. S/N 0779047	1	EA	150.00
KEYBOARD. SUN E03470014. S/N 9118004845	1	EA	90.00
KEYBOARD. SUN E03470014. S/N 9219004502	1	EA	70.00
KEYBOARD. TELEVIDEO	3	EA	372.00
LAMP. DRAFTING. BRONZE. DAZOR	1	EA	62.00
MONITOR. DELL VC-2. S/N U410019295	1	EA	539.00
MONITOR. FOUNTAIN. S/N 617111402	1	EA	125.00
MONITOR. FOUNTAIN. S/N 6181110057	1	EA	125.00
MONITOR. FOUNTAIN. S/N 618111038	1	EA	125.00
MONITOR. IMTEC 1256A. S/N 90500936	1	EA	75.00
MONITOR. IMTEC 1256A. S/N 90500995	1	EA	75.00
MONITOR. IMTEC 1256A. S/N 90501021	1	EA	75.00
MONITOR. IMTEC 1256A. S/N 90503068	1	EA	75.00
MONITOR. MAGNA. 8CM5150741. S/N 51753993	1	EA	279.00
MONITOR. MAGNA. 8CM5150741. S/N 51754132	1	EA	279.00
MONITOR. MAGNA. 8CM5150741. S/N 52983656	1	EA	279.00
MONITOR. MAGNA. CM8562074G. S/N 54346410	1	EA	279.00
MONITOR. NEC MULTISYNC. S/N 9YM40105J	1	EA	250.00
MONITOR. SAMSUNG. S/N 91101737	1	EA	85.00
MONITOR. SAMSUNG MA2565. S/N 91802319	1	EA	85.00
MONITOR. SUN MODEL M. S/N 847AZ0086	1	EA	1,863.00
MONITOR TELEVIDEO 965 S/N 30B-B88120161D	1	EA	374.00
MONITOR TELEVIDEO 965 S/N 30B-B88120277D	1	EA	374.00
MONITOR TELEVIDEO 965 S/N 30B-B88120294D	1	EA	374.00
MONIT.. SAMSUNG EGA CM4531. S/N 0779046	1	EA	250.00
MONIT.. SAMSUNG EGA CM4531. S/N 81503990	1	EA	250.00
MON. 19" COL. ZENITH. S/N 721-16220072	1	EA	259.00
OVHD PROJ.. APOLLO A1-1000. S/N 7060863	1	EA	230.00
FLOTTER. 6 PEN. FACIT. S/N 92835602-01	1	EA	425.00
PODIUM. WOOD. HANDMADE	1	EA	100.00
PRINTER. APPLE M6000. S/N CA8031EGYM6000	1	EA	3,472.00
PRINTER. BURROUGHS 9252. S/N 313971996	1	EA	1,995.00
PRINTER. DIGITAL LA50-RA. S/N TCH-1760A	1	EA	550.00

DESCRIPTION	QTY	U/I	TOTAL VALUE
PRINTER. HP 2686A. S/N 2602J77021	1	EA	2,676.00
PRINTER. HP LASER JET. S/N 2743J70159	1	EA	1,672.00
PRINTER. LASER. HEW-PAC. S/N 2718J30239	1	EA	2,338.00
PRINTER. NEC LC890. S/N 289299734	1	EA	3,126.00
PRINTER. NEC LC890. #289265320	1	EA	3,117.00
PRINTER. NEC LC890. #289265324	1	EA	3,117.00
PRINTER. OKIDATA 182. S/N 411A0025246	1	EA	279.00
PRINTER. OKIDATA 182. S/N 601B0149862	1	EA	265.00
PRINTER. OKIDATA 182. S/N 605B0179095	1	EA	228.00
PRINTER. OKIDATA 182. S/N 605B0179106	1	EA	228.00
PRINTER. OKIDATA 182. S/N 606B0208542	1	EA	228.00
PRINTER. OKIDATA 182. S/N 607B0211461	1	EA	228.00
PRINTER. PANASONIC. S/N 91MAQI55088	1	EA	315.00
PRINTER. REMOTE. CDC 556-1	1	EA	16,777.00
PRINTER. STAR MICR.. S/N 350090618477	1	EA	175.00
PRINTER. STAR NX-10. S/N 180470401665	1	EA	185.00
PRINTER. STAR NX-10. S/N 180470402005	1	EA	185.00
PRINTER. STAR NX-10. S/N 180470402006	1	EA	185.00
PRINTER. STAR NX-1000. S/N 310071104857	1	EA	160.00
PRINTER. STAR NX-15. S/N 250061200377	1	EA	300.00
PRINTER. STAR NX-15. S/N 250070100599	1	EA	300.00
PRINTER. STAR NX-15. S/N 250280400158	1	EA	310.00
PRINTER. STAR NX-15. S/N 250280600531	1	EA	318.00
PRINTER. TEXAS INSTR.. S/N 4539710219	1	EA	1,645.00
PRINTER. TEXAS INST. P35. S/N 0639720147	1	EA	1,624.00
PRINTER. TI MICROLASER +. S/N 4639720024	1	EA	1,227.00
SCREEN. VIEWGRAPH. 7x7 FT.. WALL. KNOX	1	EA	151.00
SERIAL SWITCH. 5 WAY. MYTECH. SB25/5	1	EA	50.00
SHELVING. UTILITY. 4 SHELF. GREY	1	EA	25.00
SOFA. 3 SEAT. BEIGE. TEAK. TBI	1	EA	388.00
STAPLER. ELECTRIC. BLACK SWINGLINE	1	EA	50.00
STEP LADDER. LOCKING. BALLYMORE CO.	1	EA	68.00
STOOL. BAR. BROWN. VINYL	2	EA	80.00
STOPWATCH. ADVANCE QUARTZ	1	EA	22.00
SUN SPARCSTATION #147. S/N 114F1383	1	EA	5,937.00
TABLE. 2x3 FT.	1	EA	45.00
TABLE. 3x4 FT.	3	EA	330.00
TABLE	5	EA	682.00
TABLE. COFFEE. TEAK. TBI	1	EA	88.00
TABLE. CONFERENCE	2	EA	860.00
TABLE. FOLDING	1	EA	50.00
TABLE. SOFA	1	EA	78.00
TABLE. TERMINAL. WALNUT. TAB	2	EA	470.00
TABLE. WOOD	1	EA	49.00
TABLE SIDE BAR. TERMINAL. WALNUT. TAB	1	EA	95.00
TERMINAL. BELTRON PC/XT	4	EA	3,628.00
TERMINAL. CONSOLE. BELTRON 8088	1	EA	1,120.00
TERMINAL. DELL SYSTEM 325. S/N08J9C	1	EA	4,427.00
TERM.. PC/AT. I.C. COMPUTERS. S/N 19428	1	EA	2,000.00
TERM.. PC/AT. I.C. COMPUTERS. S/N 19458	1	EA	2,000.00
TERM.. PC/AT. MAGITRONIC S/N 8800521	1	EA	1,157.00
TERM.. PC/AT. MAGITRONIC S/N 8800898	1	EA	1,157.00

DESCRIPTION	QTY	U/I	TOTAL VALUE
TERM. PC/XT. CHEUNG LABS, S/N 260531	1	EA	800.00
TERM. CONSOLE. BELTRON 8088	2	EA	2,240.00
TERM. DIGITAL VT220, S/N TA15624	1	EA	770.00
TERM. MICROSERVE X/TURBO, S/N 7704151	1	EA	750.00
TERM. MICROSERVE X/TURBO, S/N 7704158	1	EA	750.00
TERM. MICROSERVE X/TURBO, S/N 7704160	1	EA	750.00
TERM. MICROSERVE X/TURBO, S/N 7704161	1	EA	750.00
TERM. PC/AT, EVEREX 1800A, S/N BN25254	1	EA	2,327.00
TYEWRITER, TA600, ROYAL	1	EA	200.00
TYPEWRITER, CANON ES3, S/N W22084308	1	EA	90.00
TYPEWRITER STAND, BLACK/WALNUT, HUNT	1	EA	175.00
TYPING STAND	2	EA	49.00
UTILITY SHELF, 5 SHELF, GREY, EDSAL CO.	1	EA	50.00
VACUUM, PORT., W/ATTACH., POWERCRAFT	1	EA	45.00
VALET, FREE STANDING	4	EA	140.00
VCR W/RMT, RCA M/N VMT390, S/N 707516863	1	EA	298.00
VOLTMETER, IM-17, HEATHKIT	1	EA	30.00
WALL SHELVES, WOODEN	1	EA	12.00
WALL VALET	8	EA	212.00
WORKSTATION	3	EA	608.00

EXHIBIT D  
INSTALLATION-PROVIDED GOVERNMENT PROPERTY

ECH	ITEMNAME	MANUF	MODEL	SERNO	USER	CC
1090846	ANALYZER, SIGNAL, DIGITAL	NAVTEK SAN DIEGO INC	SM111D	1433008	BELCHER, RODNEY	3510
1090845	ANALYZER, SIGNAL, DIGITAL	NAVTEK SAN DIEGO INC	SM111D	167	BELCHER, RODNEY	1995
G077792	BOX, BREAKOUT	HEWLETT-PACKARD CO	18140A	NONE	CUCURA, STEPHEN J.,	250
0259165	POWER SUPPLY/CONTROLLER	DIGITAL EQUIPMENT CORP	V5240B	AB617026X2	BARNES, DAVID B.,	712
0282622	BUFFER, PRINTER	QUADRAM CORP	MICROFAZER	0596111H	CUCURA, STEPHEN J.,	863
1159238	CHARGER, BATTERY	NAVTEK SAN DIEGO INC	BC3A	2203077	BELCHER, RODNEY	470
G073658	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE	8530E21	23-9840503	SHEVLIN, NANCY K.,	1451
G073906	COMPUTER, MICRO	SUN MICROSYSTEMS INC	147(3/80FMA)	009F0438	TYNES, REGINA V.,	5760
G075104	COMPUTER, MICRO	GATEWAY 2000	486/25DXC	225405	MURRAY, HARVEY W., J	3995
G075831	COMPUTER, MICRO	LANGLEY RESEARCH CENTER	NONE	NONE	BELCHER, RODNEY	700
G077793	COMPUTER, MICRO	REC INFORMATION SYSTEMS INC	EL2	9950351BS	CUCURA, STEPHEN J.,	1925
G077795	COMPUTER, MICRO	LOOP	286/12	666-016669	CUCURA, STEPHEN J.,	950
G077797	COMPUTER, MICRO	LOOP	286/12	666-016673	CUCURA, STEPHEN J.,	950
G077799	COMPUTER, MICRO	LOOP	286/12	666-016675	CUCURA, STEPHEN J.,	950
G077801	COMPUTER, MICRO	LOOP	286/12	666-016674	CUCURA, STEPHEN J.,	950
G077803	COMPUTER, MICRO	LOOP	286/12	666-016677	CUCURA, STEPHEN J.,	950
G077805	COMPUTER, MICRO	LOOP	286/12	666-016671	CUCURA, STEPHEN J.,	950
G077807	COMPUTER, MICRO	LOOP	286/12	666-016672	CUCURA, STEPHEN J.,	950
G077809	COMPUTER, MICRO	LOOP	286/12	666-016670	CUCURA, STEPHEN J.,	950
G077811	COMPUTER, MICRO	LOOP	1270A	666-016696	CUCURA, STEPHEN J.,	1275
G077813	COMPUTER, MICRO	LOOP	286/12	666-016676	CUCURA, STEPHEN J.,	950
G077814	COMPUTER, MICRO	PACKARD BELL ELECTRONICS	PB286	C2615347	CUCURA, STEPHEN J.,	1795
G077815	COMPUTER, MICRO	GATEWAY 2000	386/20	384923	CUCURA, STEPHEN J.,	2720
G077826	COMPUTER, MICRO	DTK CO INC F-VELTRI F & SONS	80386-25	G9091694	CARMODY, THOMAS J	1995
1090844	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	91111893	ARVIOLA, ANTHONY D.,	1187
G077894	COMPUTER, MICRO	RELTRON	PC/XT	6181110110	PAYNE, LAURETTA J.	1120
G077891	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE	5160	000098993	MORLEGE, CLARKE H.,	4372
0849210	COMPUTER, MICRO	MICROSERVE	286	61211023	RAGIN, ANGELA, S.,	1200
G077955	COMPUTER, MICRO	MAGNAVOX ELECTRONIC SYSTEMS	PC/AT	8800522	SMITH, JOHN D.	1157
1089501	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	1A3074	JACKSON, SHARON R.	1284
1089049	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	1A3075	RAGIN, ANGELA, S.,	1284
1089503	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	1A0373	BYRD, CARRIE D.	1284
G077966	COMPUTER, MICRO	PC BRAND INC	NONE	890207-286/12-107	CAREY, DAVID H.	1795
1089047	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	1A3077	STAFFORD, PATRICIA L	1284
0053791	COMPUTER, MICRO	SPERRY CP DEFENSE PRODUCTS GP	500	018712	CUCURA, STEPHEN J.,	2581
0053794	COMPUTER, MICRO	SPERRY CP DEFENSE PRODUCTS GP	500	018429	CUCURA, STEPHEN J.,	2581
0054204	COMPUTER, MICRO	COMPUADD	286	NONE	CUCURA, STEPHEN J.,	1329
0054785	COMPUTER, MICRO	PC'S LIMITED SEE DEL COMPUTERS	300	L005635	VOSS, KENNETH E.	4210
0054948	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE	8560071	9055569	VOSS, KENNETH E.	4755
0055084	COMPUTER, MICRO	APPLE COMPUTER INC	H5000	F8139F9	ROBBINS, STEVEN W.,	724
0055715	COMPUTER, MICRO	HAY COMPUTERS CORP	INFO286	68121531	SMITH, JOHN D.	1080
0055749	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE	8580111	6016956	MULLEN, URSULA H.	8296
0057186	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE	8560071	9078716	VOSS, KENNETH E.	4755

0058644	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 8560071	9071421	SIMPSON, JOHN W.,	4232.00
0058840	COMPUTER, MICRO	SUN MICROSISTEMS INC 247(3/50M4)	841F0179	BOWEN, EARL R.,	3400.00
0060513	COMPUTER, MICRO	APPLE COMPUTER INC MACINTOSH SE H5011	F9088JJ	BYNUM, MARY ANN O.,	2534.00
0061009	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 8530E21	23-7162685	VOSS, KENNETH E.	1435.00
0061778	COMPUTER, MICRO	SUNNYVALE MEMORIES 386	MM10007	LOWELL, RONNIE S.	1965.00
0139637	COMPUTER, MICRO	TANDON CORP F-SYSTEMS CORP TH7000	1419	EARL, PATRICIA A.	3793.00
0139697	COMPUTER, MICRO	APPLE COMPUTER INC M0001	F7115QH	BURGUS, PAUL F.,	1457.00
0140293	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 5170-339	7278008	BURGUS, PAUL F.,	3583.00
0140667	COMPUTER, MICRO	PC'S LIMITED SEE DEL COMPUTERS AT111(286)	21175	GUSTAFSON, CREIGHTON	1786.55
0140777	COMPUTER, MICRO	PC'S LIMITED SEE DEL COMPUTERS PC TURBO XT	004999	VOSS, KENNETH E.	563.00
0140781	COMPUTER, MICRO	PC'S LIMITED SEE DEL COMPUTERS PC112TURBO	004877	CUCURA, STEPHEN J.,	1018.00
1256026	COMPUTER, MICRO	BALES SCIENTIFIC INC. 486DX2	X393819	CAREY, DAVID M.	1771.00
0142435	COMPUTER, MICRO	STANDARD BRAND PRODUCTS TURBO	133869	COOK, MICHELLE I.	500.00
0142514	COMPUTER, MICRO	COMPAQ COMPUTER CORP 101709	1728AB180070	VOSS, KENNETH E.	1561.00
0143106	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 5170-339	7213673	COLLINS, ANNE-MARIE	3603.00
1256028	COMPUTER, MICRO	BALES SCIENTIFIC INC. 486DX2	X393812	JENKINS, SHARON L.	1771.00
1255401	COMPUTER, MICRO	APPLE COMPUTER INC POWERBOOK160	PC30857X450	VOSS, KENNETH E.	2119.00
1255402	COMPUTER, MICRO	APPLE COMPUTER INC POWERBOOK160	PC3032WF450	VOSS, KENNETH E.	2119.00
1255403	COMPUTER, MICRO	TOSHIBA HOSUSEN CO LTD T5200	04115573	VOSS, KENNETH E.	2000.00
1255404	COMPUTER, MICRO	TOSHIBA HOSUSEN CO LTD T5200	02115055	VOSS, KENNETH E.	2000.00
1256030	COMPUTER, MICRO	APPLE COMPUTER INC QUADRAB800	F33198R9CC7	JAKOBOWSKI, ROBERT A	3869.00
1255405	COMPUTER, MICRO	TOSHIBA HOSUSEN CO LTD T5200	02114946	VOSS, KENNETH E.	2000.00
1093081	COMPUTER, MICRO	GATEWAY 2000 486/33DXC	343835	DUERR, ROLF	2995.00
1093083	COMPUTER, MICRO	GATEWAY 2000 486/33DXC	343822	CUCURA, STEPHEN J.,	2995.00
0282361	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 5170-099	0114658	VOSS, KENNETH E.	4569.00
0283799	COMPUTER, MICRO	SPERRY CP DEFENSE PRODUCTS GP SPX	01490	VOSS, KENNETH E.	2592.00
1159928	COMPUTER, MICRO	SUN MICROSISTEMS INC SPARC10	250F2184	VOSS, KENNETH E.	8147.00
1156212	COMPUTER, MICRO	YOUNG MINDS INC CUSTUDIO	000036	SMITH, DIANN P.,	12400.00
0471856	COMPUTER, MICRO	RADIO SHACK F-ALLIED RADIO TRS80/100	306015919	CUCURA, STEPHEN J.,	820.00
0527604	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 5160	2067782	LOWELL, RONNIE S.	2215.00
1256001	COMPUTER, MICRO	COMPAQ COMPUTER CORP P486C/66	8315BBC30155	VOSS, KENNETH E.	24905.00
0846932	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 8530E21	20117	VOSS, KENNETH E.	1535.00
0847159	COMPUTER, MICRO	INTERNATIONAL BUSINESS MACHINE 8530E21	20063	COLLINS, ANNE-MARIE	1535.00
0847180	COMPUTER, MICRO	GATEWAY 2000 2000	366322	ROBBINS, STEVEN W.,	1520.00
0848081	COMPUTER, MICRO	DELL COMPUTER CORP F-PC'S LTD 310	310033064	VOSS, KENNETH E.	3251.00
0848531	COMPUTER, MICRO	MICRO EXPRESS REGAL	R50006400	VOSS, KENNETH E.	2000.00
1084703	COMPUTER, MICRO	I C PERSONAL COMPUTER 386/25	195356	RAGIN, ANGELA, S.,	2106.00
G077938	COMPUTER, MICRO	BELTRON PC/XT	NONE	KENT, GREGORY S.	907.00
1086879	COMPUTER, MICRO	SUN MICROSISTEMS INC IPC4/40CLR	117F1820	LEE, LUCIA L.	2607.00
1086872	COMPUTER, MICRO	SUN MICROSISTEMS INC IPC4/40CLR	122F5133	AUSTIN, BRENDA A.,	2607.00
G077924	COMPUTER, MICRO	BELTRON PC/XT	630111544	SINGLETON, CHARLES B	1055.00
1084847	COMPUTER, MICRO	SUN MICROSISTEMS INC 47	111F0794	COLLINS, ANNE-MARIE	8956.00
1085927	COMPUTER, MICRO	SUN MICROSISTEMS INC 147	122F1055	SHEVLIN, MARY K.,	10896.00
1086502	COMPUTER, MICRO	APPLE COMPUTER INC MCC11FX	F3116M23C40	VOSS, KENNETH E.	5078.00
1087598	COMPUTER, MICRO	MICRO ENHANCEMENTS DF1386	160133	STAPLER, RODGER W.	2079.00

1084696	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARCSTATION1+	040F2584	FRANKLIN, DOYLE B.	3452.00
1087148	COMPUTER, MICRO	APPLE COMPUTER INC	M0350	F1111104L02	MCCARTER, KAREN K.,	1553.41
1087149	COMPUTER, MICRO	APPLE COMPUTER INC	M0350	E1176R0442LL/A	MORLEDGE, CLARKE H.,	1553.41
1087326	COMPUTER, MICRO	HIGH DEFINITION SYSTEMS	386-25	016427	RIEGER, DONALD E.	1430.00
1087550	COMPUTER, MICRO	GATEWAY 2000	486/33DXC	250868	COLLINS, ANNE-MARIE	3960.00
1087552	COMPUTER, MICRO	GATEWAY 2000	486/33DXC	250867	VOSS, KENNETH E.	3960.00
1092281	COMPUTER, MICRO	I C PERSONAL COMPUTER	IC386	903824	WOESSNER, STEVEN A.	1350.00
1089041	COMPUTER, MICRO	APPLE COMPUTER INC	MAC II CI	F113503P724	PRESTON, FRANK S.,	3824.00
1086877	COMPUTER, MICRO	SUN MICROSYSTEMS INC	IPC4/40CLR	117F1821	BARNES, DAVID B.,	2607.00
1089045	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	1A0376	STEIN, CHRISTINE L.	1284.00
1090621	COMPUTER, MICRO	APPLE COMPUTER INC	M5525	F3149MJC40	MCCARTER, KAREN K.,	4402.00
1090622	COMPUTER, MICRO	APPLE COMPUTER INC	M5525	F3149MNC40	MCCARTER, KAREN K.,	4402.00
1157757	COMPUTER, MICRO	DF1 INC USA	486	261042	HINDE, DAVID A.	1799.00
1092282	COMPUTER, MICRO	I C PERSONAL COMPUTER	IC386	903835	BAKER, ROBERT M.,	1350.00
1092074	COMPUTER, MICRO	V-COM ENTERPRISES, INC.	V486QS	NONE	VOSS, KENNETH E.	2050.00
1092302	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	MCD88K	0192K001879	SORLIE, SUSAN E.,	1696.00
1092298	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	MCD88K	0192K001907	HUANG, TYNG-GEIN	1696.00
1092075	COMPUTER, MICRO	V-COM ENTERPRISES, INC.	V486QS	NONE	VOSS, KENNETH E.	2050.00
1092076	COMPUTER, MICRO	V-COM ENTERPRISES, INC.	V486QS	NONE	VOSS, KENNETH E.	2050.00
1092286	COMPUTER, MICRO	SUN MICROSYSTEMS INC	47B	212M0049	SUDIK, STEVEN	2957.00
1092284	COMPUTER, MICRO	SUN MICROSYSTEMS INC	47B	210G3592	JAY, MARY J.	2957.00
1092288	COMPUTER, MICRO	SUN MICROSYSTEMS INC	47B	216M1261	KRUMPEN, BARBARA L.,	12180.00
1092289	COMPUTER, MICRO	I C PERSONAL COMPUTER	IC386	903823	COLLINS, ANNE-MARIE	1350.00
1092275	COMPUTER, MICRO	SUN MICROSYSTEMS INC	47B	207G5258	GOODRICH, STEVEN C.,	2942.00
1092292	COMPUTER, MICRO	MICRO ENHANCEMENTS	DF1386	92030866	SMITH, JOHN D.	1390.00
1092297	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	MCD88K	0192K001901	FRENZER, JAMES B.,	1696.00
1092296	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	MCD88K	0192K001908	MARING, LISE D.,	1696.00
1092300	COMPUTER, MICRO	SUN MICROSYSTEMS INC	147B	149F2461	BYNUM, MARY ANN O.,	15195.00
1090343	COMPUTER, MICRO	APPLE COMPUTER INC	POWERBOOK140	F2204KJY706	VOSS, KENNETH E.	2481.00
G077876	COMPUTER, MICRO	MICROSERVE	386	908001836	FRENZER, JAMES B.,	3958.00
1086870	COMPUTER, MICRO	SUN MICROSYSTEMS INC	IPC4/40CLR	120F1382	SANDERS, LYLE D.,	2607.00
1084694	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARCSTATION1+	040F2502	BOND, JOHN R.	3452.00
1084698	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARCSTATION1+	040F2623	BOND, JOHN R.	3452.00
1084693	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARCSTATION1+	042F0892	STARRIN, TIMOTHY P.,	8261.00
1084700	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARCSTATION1+	038F1321	BARNES, DAVID B.,	3452.00
G077935	COMPUTER, MICRO	BELTRON	PC/XT	NONE	EVANS, AGNES B.	907.00
1084689	COMPUTER, MICRO	MICROSERVE	386	68100946	HAINES, JOHN H.	2758.00
G077942	COMPUTER, MICRO	MAY COMPUTERS CORP	INFO286	61201948	LANDERS, TROY D.,	1850.00
1156831	COMPUTER, MICRO	PORTABLE WAREHOUSE THE	TPW486/33	NONE	MORLEDGE, CLARKE H.,	2195.00
1157755	COMPUTER, MICRO	DF1 INC USA	486	261043	JACKSON CHARLES H.,	1679.00
1254524	COMPUTER, MICRO	SUN MICROSYSTEMS INC	47B	308M5172	RIEGER, DONALD E.	5846.00
1159920	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	88KP17W	1092K109981	EKLUND, LYNNE	1582.00
1159925	COMPUTER, MICRO	SUN MICROSYSTEMS INC	SPARC10	250F2406	EKLUND, LYNNE	8147.00
1255426	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	88K	0293K118184	LOVELL, RONNIE S.	1579.00
1255428	COMPUTER, MICRO	NETWORKING COMPUTING DEVICES	88K	0293K118889	LOVELL, RONNIE S.	1579.00

1255430	COMPUTER, MICRO	APPLE COMPUTER INC	CENTRIS650	F13130PNCAL	392S62
1087321	COMPUTER, MICRO	HIGH DEFINITION SYSTEMS	386-25	016386	1430
0849583	COMPUTER, MICRO	TRONICS	HH860922	CF776802	3000
1088255	COMPUTER, MICRO	BELTRON	EV1251T	6181110402	1121T
1256024	COMPUTER, MICRO	MICRO ENHANCEMENTS	486-66	342139	232
0046161	COMPUTER, MINI	SUN MICROSYSTEMS INC	4/60CX147	93971862	10
0056007	COMPUTER, MINI	SUN MICROSYSTEMS INC	247(3/60M4)	824F0297	496
0056010	COMPUTER, MINI	SUN MICROSYSTEMS INC	247(3/60M4)	824F0855	496
1090767	COMPUTER, MINI	HEWLETT-PACKARD CO	APPOLLOSERIES700	6213A08580	2283
0847781	COMPUTER, MINI	SUN MICROSYSTEMS INC	3/80	946F2017	225
0847782	COMPUTER, MINI	SUN MICROSYSTEMS INC	147	946F1973	230
0847783	COMPUTER, MINI	SUN MICROSYSTEMS INC	147	946F1969	230
1155550	COMPUTER, MINI	SUN MICROSYSTEMS INC	47B(4/50)	221M3185	856
1086866	COMPUTER, MINI	SUN MICROSYSTEMS INC	4/75FGX	121F2317	696
1092097	CONTROL, COMPUTER	PARALLON COMPUTING CORP	PN357	09-18454	176
1091381	CONTROL, COMPUTER	PARALLON COMPUTING CORP	PN357	09-18359	176
0141159	COUNTER, FREQUENCY	HEWLETT-PACKARD CO	5316A	2632A10434	179
0141160	COUNTER, FREQUENCY	HEWLETT-PACKARD CO	5316A	2632A10435	179
1159239	DETECTOR, LEAK	WAVETEK SAN DIEGO INC	CLR4	0613085	20
1092271	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	411	150G1958	53
0060059	DISK DRIVE UNIT	SYSGEN INC	5.25BRIDGE DISK	43-39710	25
0139699	DISK DRIVE UNIT	BODINE INC	S20	7048	85
1256022	DISK DRIVE UNIT	ANDATA CO	702D-P	2075515033	1999
1093495	DISK DRIVE UNIT	CITA TECHNOLOGIES, INC.	ST41200N	TJ610440	156
1108080	DISK DRIVE UNIT	OPTIMEH	1000H	3610	1200
1093496	DISK DRIVE UNIT	CITA TECHNOLOGIES, INC.	ST41200N	TJ610515	156
1156211	DISK DRIVE UNIT	PHILIPS	DD521BK01	16645049	6000
1090016	DISK DRIVE UNIT	HEWLETT-PACKARD CO	C2213A	3173A20245	388
0847786	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	EXP2	943G0657	464
0847787	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	EXP2	938G0126	58
1087603	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	IPC4140MBP40	120F3278	374
1085730	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	EXP2	118G1055	52
1086746	DISK DRIVE UNIT	UNISON INFORMATION SYSTEMS	1598-15	4467	241
1086747	DISK DRIVE UNIT	UNISON INFORMATION SYSTEMS	1598-15	4468	241
1086865	DISK DRIVE UNIT	FUJITSU LTD	F66D1T2T3	J5068	50
1090623	DISK DRIVE UNIT	STORAGE DIMENSIONS INC	MAC2325ZFP111	BS38720	141
1090624	DISK DRIVE UNIT	STORAGE DIMENSIONS INC	MAC2325ZFP111	BS38721	141
1092276	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	CDROM411	20766191	5
1092278	DISK DRIVE UNIT	22YZX FORMLY UNISUN PERIPHERLS	MINT002	92030018	19
1155546	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	811	223G1968	35
1155547	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	811	223G2280	35
1155574	DISK DRIVE UNIT	TOTAL TEC SYSTEMS INC	DUT00251B	04742-0100	37
1089540	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	411	119G2926	5
1086874	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	IPC4/40CLR	120F1380	26
1087601	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	IPC4/40FCBP40	123F2319	35
		LANDERS, TROY D.,			
		ROME, KAYE D.,			
		PARRON, LAURICE E.,			
		PARRON, LAURICE E.,			
		SEALS, THOMAS J.			
		MORLEDGE, CLARKE H.,			
		JAKOBOWSKI, ROBERT A			
		CLEVELAND, JEFF I.,			
		RIEGER, DONALD E.			
		SHEVLIN, NANCY K.,			
		BYNUM, MARY ANN O.,			
		RIEGER, DONALD E.			
		UTLEY, JUDITH A.			
		VOSS, KENNETH E.			
		VOSS, KENNETH E.			
		BELCHER, ROONEY			
		BELCHER, ROONEY			
		BELCHER, ROONEY			
		BYNUM, MARY ANN O.,			
		VOSS, KENNETH E.			
		BURGIS, PAUL F.,			
		HINES, THERESA H.,			
		BARNES, DAVID B.,			
		LOVELL, RONNIE S.			
		BARNES, DAVID B.,			
		SMITH, DIANN P.,			
		CLEVELAND, JEFF I.,			
		SHEVLIN, NANCY K.,			
		BYNUM, MARY ANN O.,			
		RODGERS, ERNESTINE E			
		SHEVLIN, NANCY K.,			
		BYNUM, MARY ANN O.,			
		SHEVLIN, NANCY K.,			
		UTLEY, JUDITH A.			
		MCCARTER, KAREN K.,			
		MCCARTER, KAREN K.,			
		GOODRICH, STEVEN C.,			
		GOODRICH, STEVEN C.,			
		RIEGER, DONALD E.			
		RIEGER, DONALD E.			
		CLEVELAND, JEFF I.,			
		UTLEY, JUDITH A.			
		EVANS, AGNES B.			
		BAGA, CARMEN R.,			



108960	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	411	12565011	BAZA, CARMEN R.,	556.
0802035	DISK DRIVE UNIT	SEAGATE	ST42400N	MR021640	BAZA, CARMEN R.,	2220.
1254703	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	811	31205479	ROME, KAYE D.,	3465.
1159930	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	X571A	303GZ371	VOSS, KENNETH E.	2925.
1159927	DISK DRIVE UNIT	SUN MICROSYSTEMS INC	X571A	303GZ372	EKLUND, LYNNE	2925.
1089044	DISK/TAPE DRIVE UNIT	MICROPOLIS CORP	PC0669-15SE	LP91021315RD3	RODGERS, ERNESTINE E	2900.
G073659	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513001	23DYW05	SHEVLIN, NANCY K.,	472.
G073908	DISPLAY UNIT	SUN MICROSYSTEMS INC	17SHMIZEMITH	009F0438	TYNES, REGINA V.,	400.
G076948	DISPLAY UNIT	SUN MICROSYSTEMS INC	H	850AZ0351	TOWNES, LAYERNE H.,	500.
G077933	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5151	6058867	MORLEGE, CLARKE H.,	125.
G077289	DISPLAY UNIT	PC'S LIMITED SEE DEL COMPUTERS	MON02	90503036	VOSS, KENNETH E.	180.
G077794	DISPLAY UNIT	LOOP	1270A	T91202889	CUCURA, STEPHEN J.,	125.
G077796	DISPLAY UNIT	LOOP	1270A	T91203224	CUCURA, STEPHEN J.,	125.
G077800	DISPLAY UNIT	LOOP	1270A	T91202558	CUCURA, STEPHEN J.,	125.
G077804	DISPLAY UNIT	LOOP	1270A	T91202901	CUCURA, STEPHEN J.,	125.
G077806	DISPLAY UNIT	LOOP	1270A	T91200238	CUCURA, STEPHEN J.,	125.
G077808	DISPLAY UNIT	LOOP	1270A	T91200478	CUCURA, STEPHEN J.,	125.
G077810	DISPLAY UNIT	LOOP	1270A	T91201894	CUCURA, STEPHEN J.,	200.
G077812	DISPLAY UNIT	LOOP	286/12	CF9001V00719	CUCURA, STEPHEN J.,	125.
G077816	DISPLAY UNIT	LOOP	PB286LP	XF261353	CUCURA, STEPHEN J.,	300.
G077865	DISPLAY UNIT	FOUNTAIN ELECTRIC CORP	HL6935K	101000624	MURRAY, HARVEY W., J	1360.
G077931	DISPLAY UNIT	FOUNTAIN TECHNOLOGIES INC	NONE	618111110	PAYNE, LAURETTA J.	329.
1092270	DISPLAY UNIT	RELISYS (SUB TECO ELEC & MACH)	RE951V	11040100	ARVIOLA, ANTHONY D.,	103.
G077956	DISPLAY UNIT	QUADRANT ENGINEERING CORP	QC1418	NONE	EKLUND, LYNNE	3295.
1086862	DISPLAY UNIT	PRINCETON GRAPHIC SYSTEMS	C40	00734	PAYNE, LAURETTA J.	103.
G077958	DISPLAY UNIT	QUADRANT ENGINEERING CORP	QC1418	NONE	JAY, MARY J.	1863.
G077855	DISPLAY UNIT	SUN MICROSYSTEMS INC	3861/M	847AZ0139	KRUPPEN, BARBARA L.,	1727.
1084681	DISPLAY UNIT	MITSUBISHI ELECTRIC CORP	HA3905	911002741	MORRIS DANIEL C., II	349.
1089502	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CNC1412A	1073E00246	JACKSON, SHARON H.	349.
1089500	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CNC1412A	1073D000616	RAGIN, ANGELA, S.,	349.
1089504	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CNC1412A	1073D000456	BYRD, CARRIE D.	349.
1089046	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CNC1412A	1073E000308	STAFFORD, PATRICIA L	349.
0053778	DISPLAY UNIT	SPERRY CP DEFENSE PRODUCTS GP	3585-00	008186	BARRETT, JOHN D.	620.
0053789	DISPLAY UNIT	SPERRY CP DEFENSE PRODUCTS GP	3583-03	014957	CUCURA, STEPHEN J.,	165.
0053792	DISPLAY UNIT	SPERRY CP DEFENSE PRODUCTS GP	3583-03	015113	CUCURA, STEPHEN J.,	165.
0054206	DISPLAY UNIT	SAMSUNG ELECTRONICS	CH12SFA7	6744210288	CUCURA, STEPHEN J.,	139.
0054506	DISPLAY UNIT	SUN MICROSYSTEMS INC	H	810AA4856	BYRUH, MARY ANN O.,	500.
0054507	DISPLAY UNIT	SUN MICROSYSTEMS INC	H	809AA4666	HAMPTON, WILLIAM A.,	500.
0054787	DISPLAY UNIT	MITSUBISHI ELECTRIC CORP	XC1410C	1410001883	VOSS, KENNETH E.	469.
0055551	DISPLAY UNIT	EVEREX SYSTEMS INC	MR200	3WNO3101	CAREY, DAVID H.	355.
0055717	DISPLAY UNIT	PACKARD BELL ELECTRONICS	PB1272A	71226894	SMITH, JOHN D.	435.
0055751	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513001	23F0633	MULLEN, UNSULA H.	432.
0056038	DISPLAY UNIT	SUN MICROSYSTEMS INC	H	821AA0815	MORLEGE, CLARKE H.,	800.
0057188	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513001	23F0909	VOSS, KENNETH E.	432.
0057281	DISPLAY UNIT	SAMSUNG ELECTRONICS	CH12SFA7	8814253346	CUCURA, STEPHEN J.,	115.

1256025	DISPLAY UNIT	MICRO ENHANCEMENTS	HC392519ETK	208000689	SEALS, THOMAS J.	1665.00
1256019	DISPLAY UNIT	TYM PROFESSIONAL MONITOR CORP	141V+(07)	MTVM4118589	STURGIS, WILLIAM J.,	315.00
0058646	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513001	23W1451	SIMPSON, JOHN W.,	432.00
0058841	DISPLAY UNIT	SUN MICROSYSTEMS INC	M	843AZ0248	BOWEN, EARL R.,	400.00
G077875	DISPLAY UNIT	NEC INFORMATIONAL SYSTEMS INC	MULTISYNC3D	09M89702	FRENZER, JAMES B.,	751.00
0061010	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513-001	72-0650034	VOSS, KENNETH E.	432.00
0061780	DISPLAY UNIT	RELISYS (SUB TECO ELEC & MACH)	RE5154E	88845203	LOWELL, RONNIE S.	840.00
0061935	DISPLAY UNIT	SUN MICROSYSTEMS INC	M19P1146124	907BM9211	JAKOBOWSKI, ROBERT A	1237.00
0138642	DISPLAY UNIT	NEC INFORMATIONAL SYSTEMS INC	JC1401P3A	69C113094U	EARL, PATRICIA A.	599.00
0140295	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5154-001	0245312	BURGUS, PAUL F.,	552.00
0140669	DISPLAY UNIT	HITSUBISHI ELECTRIC CORP	XC1430C	4304071	GUSTAFSON, CREIGHTON	599.00
0140783	DISPLAY UNIT	SAMSUNG ELECTRONICS	CK12SP7	871176190	CUCURA, STEPHEN J.,	125.00
1256027	DISPLAY UNIT	TATUNG CO	VN3401	2710578	CAREY, DAVID M.	275.00
0143108	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5151-001	6202003	COLLINS, ANNE-MARIE	179.00
1256029	DISPLAY UNIT	TATUNG CO	VN3401	2710265	JENKINS, SHARON L.	275.00
1256031	DISPLAY UNIT	APPLE COMPUTER INC	1298	S4251040D07	JAKOBOWSKI, ROBERT A	1179.00
1093082	DISPLAY UNIT	GATEWAY 2000	PHV1448	T9797333	DUEHR, ROLF	395.00
1093084	DISPLAY UNIT	GATEWAY 2000	PHV1448	T9787375	CUCURA, STEPHEN J.,	395.00
0259164	DISPLAY UNIT	DIGITAL EQUIPMENT CORP	VR201A	TAS2769	BARNES, DAVID B.,	712.80
1092711	DISPLAY UNIT	SUN MICROSYSTEMS INC	GIM1962B	9146DX0108	SHEVLIN, NANCY K.,	1628.00
1092842	DISPLAY UNIT	SUN MICROSYSTEMS INC	GIM1962B	9137DX1167	BYNUM, MARY ANN O.,	1628.00
0282649	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5151-001	0558848	VOSS, KENNETH E.	192.00
0282650	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5153-001	08746550	CUCURA, STEPHEN J.,	476.00
1090766	DISPLAY UNIT	HEWLETT-PACKARD CO	A1097A	3117J15995	CLEVELAND, JEFF I.,	1529.00
0527606	DISPLAY UNIT	AMDEK CORP	VIDEO310A	6312118	LOWELL, RONNIE S.	180.00
1092301	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	S-NW02	414258-24	SORLIE, SUSAN E.,	2135.00
1092295	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	S-NW02	414258-55	FRENZER, JAMES B.,	2135.00
1156632	DISPLAY UNIT	AMAZING TECHNOLOGY CORP	1488	1109854	CARMODY, THOMAS J	109.00
0547772	DISPLAY UNIT	TELEVIDEO SYSTEMS INC	PT	18AC141140082	VOSS, KENNETH E.	400.00
0547773	DISPLAY UNIT	TELEVIDEO SYSTEMS INC	PT	18AC141140085	VOSS, KENNETH E.	400.00
0547775	DISPLAY UNIT	TELEVIDEO SYSTEMS INC	PT	18AC141140086	VOSS, KENNETH E.	400.00
1092294	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	S-NW02	414285-194	HUANG, TYNG-GENH	2135.00
0550194	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	5151-001	0174744	SMITH, JOHN D.	240.00
0846934	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513	23LR191	VOSS, KENNETH E.	432.00
0847184	DISPLAY UNIT	GATEWAY 2000	2000SAMSUNG CH1495	91949	ROBBINS, STEVEN W.,	466.00
0847553	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513	23TP798	VOSS, KENNETH E.	432.00
0847558	DISPLAY UNIT	INTERNATIONAL BUSINESS MACHINE	8513	23MP639	COLLINS, ANNE-MARIE	432.00
0847784	DISPLAY UNIT	SUN MICROSYSTEMS INC	M19P114	943BK4057	BYNUM, MARY ANN O.,	3000.00
0847785	DISPLAY UNIT	SUN MICROSYSTEMS INC	M19P114	943BK3846	SHEVLIN, NANCY K.,	3000.00
0848082	DISPLAY UNIT	DELL COMPUTER CORP F-PC'S LTD	VC2	90816379	VOSS, KENNETH E.	400.00
1084687	DISPLAY UNIT	RELISYS (SUB TECO ELEC & MACH)	RE9513	01305850	RAGIN, ANGELA, S.,	485.00
1084702	DISPLAY UNIT	MINIMICRO	MH1468J	009000199	RAGIN, ANGELA, S.,	350.00
G077937	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	8CM5150741	51757535	RINDE, DAVID A.	279.00
G077939	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	8CM6430741	40431990	KEAT, GREGORY S.	279.00
1083784	DISPLAY UNIT	QUADRANT ENGINEERING CORP	141B	MT9001002594	BELCHER, RODNEY	101.00

1159929	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9251DX0042	VOSS, KENNETH E.	3900.00
1084167	DISPLAY UNIT	APPLE COMPUTER INC	M0401	5526739	BURGUS, PAUL F.,	656.00
1086878	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9118DM2512	LEE, LUCIA L.	4000.00
1084683	DISPLAY UNIT	MINIMICRO	MML464K	90900139	LEE, LUCIA L.	250.00
1086871	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9118DM2251	AUSTIN, BRENDA A.,	4000.00
1089505	DISPLAY UNIT	AMAZING TECHNOLOGIES	CM8484CX	KAM1R01403	PARRON, LAURICE E.,	307.00
G077929	DISPLAY UNIT	FOUNTAIN TECHNOLOGIES INC	NONE	630111544	SINGLETON, CHARLES B	125.00
1087602	DISPLAY UNIT	SUN MICROSYSTEMS INC	M20P110	115DM2848	RODGERS, ERNESTINE E	3000.00
0849208	DISPLAY UNIT	MEC CORP	MULTISYNC 2A	97M12744C	MCLEMORE, FRANCES D.	250.00
1084848	DISPLAY UNIT	SUN MICROSYSTEMS INC	HM4119S-DA-OL	022CM0197	COLLINS, ANNE-MARIE	400.00
1086219	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1955A15	0120222	RIEGER, DONALD E.	5270.00
1086503	DISPLAY UNIT	SEJNO INSTRUMENTS USA	CM1445C	0931866A	VOSS, KENNETH E.	512.00
0059164	DISPLAY UNIT	SUN MICROSYSTEMS INC	3/60M	828AZ0951	HAMPTON, WILLIAM A.,	1557.00
G077952	DISPLAY UNIT	SUN MICROSYSTEMS INC	3/60C	834AR0255	HINES, THERESA H.,	5078.00
1087597	DISPLAY UNIT	KAMMO-USA	9070U	36379021	STAPLER, RODGER W.	1100.00
1084697	DISPLAY UNIT	SUN MICROSYSTEMS INC	17SPM1	038BU0560	FRANKLIN, DOYLE B.	3500.00
1087150	DISPLAY UNIT	APPLE COMPUTER INC	M0401	5593334	MORLEGE, CLARKE H.,	650.56
1087151	DISPLAY UNIT	APPLE COMPUTER INC	M0401	7039181	MCCARTER, KAREN K.,	650.56
1087328	DISPLAY UNIT	HELA ENGINEERING CORP	CM41VE	122510113	RIEGER, DONALD E.	400.00
1087551	DISPLAY UNIT	MITSUBISHI ELECTRIC CORP	HL6935ATK	012000437	COLLINS, ANNE-MARIE	1350.00
1087553	DISPLAY UNIT	MITSUBISHI ELECTRIC CORP	HL6935ATK	01200459	VOSS, KENNETH E.	1350.00
1084688	DISPLAY UNIT	MEC INFORMATIONAL SYSTEMS INC	JC1403RMA	02M14310K	HAINES, JOHN H.	530.00
1092280	DISPLAY UNIT	CTX INTERNATIONAL INC	CVP5468	CM10002885	WOESSNER, STEVEN A.	350.00
1089042	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	9CM080	62577666	PRESTON, FRANK S.,	434.00
1084686	DISPLAY UNIT	RELISYS (SUB TECO ELEC & MACH)	RE9513	01309261	CRICHESTER, JOSEPH G	485.00
1089048	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CMC1412A	1073D00417	STEIN, CHRISTINE L.	349.00
1157756	DISPLAY UNIT	CORDATA TECHNOLOGIES INC	CMC1412AD	2044301133	JACKSON CHARLES H.,	349.00
1090625	DISPLAY UNIT	APPLE COMPUTER INC	M1297	9024740	MCCARTER, KAREN K.,	630.00
1090626	DISPLAY UNIT	APPLE COMPUTER INC	M1297	9024741	MCCARTER, KAREN K.,	630.00
1086867	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	921DY0892	UTLEY, JUDITH A.	5000.00
1092283	DISPLAY UNIT	CTX INTERNATIONAL INC	CVP5468A	A43-14803229	BAKER, ROBERT H.,	350.00
1092293	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	S-NM02	414258-52	HARING, LISE D.,	2135.00
1092287	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9211DX0069	SUDIK, STEVEN	3000.00
1092285	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9204DX1085	JAY, MARY J.	3000.00
1092279	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	19RP3	30215320215AM	BRITO, JOHN A. F.,	1696.00
1092303	DISPLAY UNIT	SAMSUNG ELECTRONICS	CVM4963	10204147	COOK, MICHELLE I.	318.00
1092290	DISPLAY UNIT	CTX INTERNATIONAL INC	CVP5468A	K43-15100220	COLLINS, ANNE-MARIE	350.00
1092277	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9142DX0327	GOODRICH, STEVEN C.,	3015.00
1092291	DISPLAY UNIT	LEADING TECHNOLOGIES CORP	520S	10903965	SMITH, JOHN D.	320.00
1092077	DISPLAY UNIT	VIEW SONIC	TX14H30PTK	1820547599	VOSS, KENNETH E.	325.00
1092078	DISPLAY UNIT	VIEW SONIC	TX14H30PTK	1820547600	VOSS, KENNETH E.	325.00
1092079	DISPLAY UNIT	VIEW SONIC	TX14H30PTK	1820548310	VOSS, KENNETH E.	325.00
1157758	DISPLAY UNIT	KAND BELD PRODUCTS INC	CMC1412AD	2044301168	HINDE, DAVID A.	349.00
1155551	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9149DX1276	RIEGER, DONALD E.	400.00
1093090	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	7CM321	11049250	CUCURA, STEPHEN J.,	310.00

1093091	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	7CM321	11049253	CUCURA, STEPHEN J.,	310.00
1093092	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	7CM321	11050018	CUCURA, STEPHEN J.,	310.00
1093093	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	7CM321	13142008	CUCURA, STEPHEN J.,	310.00
1093089	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	7CM321	13142315	VOSS, KENNETH E.	310.00
6077802	DISPLAY UNIT	LOOP	1270A	T91200228	CUCURA, STEPHEN J.,	125.00
1157754	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	19RP3	30221520131	EVANS, HARRY K., JR	1696.00
6077798	DISPLAY UNIT	LOOP	1270A	T91200434	CUCURA, STEPHEN J.,	125.00
1086869	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9118DM1893	SANDERS, LYLE D.,	4000.00
1086875	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9118DM2184	BARNES, DAVID B.,	4000.00
1084695	DISPLAY UNIT	SUN MICROSYSTEMS INC	17SM1	0388U0333	BOND, JOHN R.	3500.00
1084699	DISPLAY UNIT	SUN MICROSYSTEMS INC	17SM1	0378U0043	ELLIOTT, DAVID F.	3500.00
1084692	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1604B15	044CR8388	STARRIN, TIMOTHY P.,	3216.00
1084701	DISPLAY UNIT	SUN MICROSYSTEMS INC	17SM1	0388U0051	BARNES, DAVID B.,	3500.00
1086873	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9118DM2456	EVANS, AGNES B.	4000.00
0849203	DISPLAY UNIT	APPLE COMPUTER INC	SE30	BCGSRM5119	RAGIN, ANGELA, S.,	3807.00
G077941	DISPLAY UNIT	MAGNAVOX ELECTRONIC SYSTEMS	8CM5150741	535967719	TALLIPEU, KATHLEEN A.	279.00
G077943	DISPLAY UNIT	PAROSCIENTIFIC INC	CM1488	102406	LANDERS, TROY D.,	125.00
1087599	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1662B	9125DY0611	BAZA, CARMEN R.,	3015.00
1254525	DISPLAY UNIT	SONY CORP	GDM1962B	9308DX0843	RIEGER, DONALD E.	3900.00
1159919	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	19C	414950-382	EKLUND, LYNNE	2135.00
1159926	DISPLAY UNIT	SUN MICROSYSTEMS INC	GDM1962B	9251DX0041	EKLUND, LYNNE	3900.00
1255427	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	HM4419D	415215-154	LOVELL, RONNIE S.	1925.00
1255429	DISPLAY UNIT	NETWORKING COMPUTING DEVICES	HM4419D	415215-169	LOVELL, RONNIE S.	1925.00
1255431	DISPLAY UNIT	HITACHI MFG CO	CH2086A3UX	Y93010108	LANDERS, TROY D.,	1525.00
1087329	DISPLAY UNIT	HELM ENGINEERING CORP	CM41VE	127310306	ROME, KAYE D.,	400.00
1086220	FILE SERVER	SUN MICROSYSTEMS INC	1247	032X0020	RIEGER, DONALD E.	66699.00
0847554	GENERATOR, SYNC	VIDEOTEK INC	VSG201	09890899	BELCHER, RODNEY	1738.00
1255456	INFOKEY, SECURITY	LEEMAN DATACOM SECURITY CORP	380-910	11357	VOSS, KENNETH E.	150.00
1255457	INFOKEY, SECURITY	LEEMAN DATACOM SECURITY CORP	380-910	11358	VOSS, KENNETH E.	150.00
1255458	INFOKEY, SECURITY	LEEMAN DATACOM SECURITY CORP	380-910	11359	VOSS, KENNETH E.	150.00
0533432	MICROSCOPE	BAUSCH AND LOMB INC	31-22-70	NONE	VOSS, KENNETH E.	599.00
1159235	MODULATOR, TELEVISION	SCIENTIFIC-ATLANTA INC	6350	111688	BELCHER, RODNEY	1812.00
1092307	MODULATOR, TELEVISION	SCIENTIFIC-ATLANTA INC	6350	122955	VOSS, KENNETH E.	1822.00
1159234	MODULATOR, TELEVISION	SCIENTIFIC-ATLANTA INC	6350	111725	BELCHER, RODNEY	1812.00
0020749	MONITOR, TELEVISION	PANASONICS	WV5200	242030014	BELCHER, RODNEY	215.00
0020750	MONITOR, TELEVISION	PANASONICS	WV5200	242030016	BELCHER, RODNEY	215.00
0020751	MONITOR, TELEVISION	PANASONICS	WV5200	242030015	BELCHER, RODNEY	215.00
0020752	MONITOR, TELEVISION	PANASONICS	WV5200	24203115	BELCHER, RODNEY	215.00
0020753	MONITOR, TELEVISION	PANASONICS	WV5200	24203114	BELCHER, RODNEY	215.00
0020754	MONITOR, TELEVISION	PANASONICS	WV5200	24203113	BELCHER, RODNEY	215.00
0144531	MONITOR, TELEVISION	PANASONICS	CT1020H	KC5421502	BELCHER, RODNEY	304.00
0144532	MONITOR, TELEVISION	PANASONICS	CT1020H	KC5421509	BELCHER, RODNEY	304.00
0144534	MONITOR, TELEVISION	PANASONICS	CT1020H	KC5421457	BELCHER, RODNEY	304.00
0144537	MONITOR, TELEVISION	PANASONICS	CT1020H	KC5421514	BELCHER, RODNEY	304.00
0144538	MONITOR, TELEVISION	PANASONICS	CT1020H	KC5421455	BELCHER, RODNEY	304.00

1256023	MONITOR, TELEVISION	TVH PROFESSIONAL MONITOR CORP	HD141V	MTVH4126331	STAPLER, RODGER W.	315.00
0527635	MONITOR, TELEVISION	SONY CORP	PVH1910	2014804	BELCHER, RODNEY	602.00
0549008	MONITOR, TELEVISION	SONY CORP	PVH1220	010344	BELCHER, RODNEY	1720.00
0473271	MONITOR, TELEVISION, COLOR	SONY CORP	PVH1211	02171B	BELCHER, RODNEY	1160.00
0801831	MONITOR, VIDEO, WAVEFORM	TEXTRONIX INC	1730	B042960	BELCHER, RODNEY	1973.00
0462552	MULTIMETER, DIGITAL	BECHMAN INDUSTRIAL CORP	3020	90827121	VOSS, KENNETH E.	170.00
G076500	OPTICAL LOSS TEST SET	A T & T TECHNOLOGIES GOVT SYS	938A	61200079	VOSS, KENNETH E.	2206.00
G076501	OPTICAL LOSS TEST SET	A T & T TECHNOLOGIES GOVT SYS	938A	61200080	VOSS, KENNETH E.	2206.00
G076601	OPTICAL MODULE	LASER PRECISION CORP	TD851	8804-0155	VOSS, KENNETH E.	10000.00
0404041	OSCILLOSCOPE, PORTABLE	TEXTRONIX INC	2213	B034725	BELCHER, RODNEY	1152.00
0461981	OSCILLOSCOPE, PORTABLE	TEXTRONIX INC	475R475	NONE	BELCHER, RODNEY	2425.00
0462514	OSCILLOSCOPE, PORTABLE	TEXTRONIX INC	475A	B014022	CUCURA, STEPHEN J.,	3439.00
0141056	PLUG-IN, INTERFACE, REFLECTOR	LASER PRECISION CORP	TD850	8705-0019	VOSS, KENNETH E.	3600.00
1156827	PLUG-IN, SINGLE MODE	HEWLETT-PACKARD CO	814625H	3104G00189	VOSS, KENNETH E.	13466.00
1089536	POLISHING MACHINE	BUEHLER LTD	69-3000	453	VOSS, KENNETH E.	3025.00
1156828	POWER SOURCE	HEWLETT-PACKARD CO	85901A	3052X01408	VOSS, KENNETH E.	1251.00
G077888	PRINTER, ADP	OKIDATA CORP	5232	245417	PARKER, PATRICIA	503.00
G077215	PRINTER, ADP	APPLS COMPUTER INC	M6000	CA017GTT	SHEVLIN, NANCY K.,	3839.00
G077898	PRINTER, ADP	OKIDATA CORP	182	60680187586	PAYNE, LAURETTA J.	228.00
G077887	PRINTER, ADP	OKIDATA CORP	82A	245422	PAYNE, LAURETTA J.	503.00
G077885	PRINTER, ADP	OKIDATA CORP	82A	NONE	JAY, MARY J.	503.00
G077850	PRINTER, ADP	OKIDATA CORP	182	60780211471	CARMODY, THOMAS J	228.00
1084682	PRINTER, ADP	PANASONICS	NONE	ACJ526KX-P10921	MORRIS DANIEL C., II	223.00
0053784	PRINTER, ADP	EPSON AMERICA INC	FX100	142366	BARRETT, JOHN D.	762.00
0055310	PRINTER, ADP	PANASONICS	KXP1091	NONE	COOK, MICHELLE I.	199.00
0055311	PRINTER, ADP	STAR MICRONICS	NX1000	310080311329	CUCURA, STEPHEN J.,	169.95
0055446	PRINTER, ADP	INTERNATIONAL BUSINESS MACHINE	3812001	3510386	CUCURA, STEPHEN J.,	5617.00
0057724	PRINTER, ADP	NEC INFORMATION SYSTEMS INC	P5200	603061793	MURRAY, HARVEY W., J	519.00
0060674	PRINTER, ADP	PANASONICS	KX-P1180	8LMARA05508	LOWELL, RONNIE S.	179.95
0060676	PRINTER, ADP	PANASONICS	KX-P1180	8LMARE09019	COLLINS, ANNE-MARIE	179.95
0140910	PRINTER, ADP	DIGITAL EQUIPMENT CORP	LA50RA	TCX2235A	ATRINS, WARREN C.,	517.00
0283196	PRINTER, ADP	OKIDATA CORP	84	221651	CUCURA, STEPHEN J.,	750.00
1157753	PRINTER, ADP	TEXAS INSTRUMENTS INC CONTROL	PS35+	1839720392	MARING, LISE D.,	1708.00
0462474	PRINTER, ADP	EPSON AMERICA INC	NX80MODIFIED	373492	MURRAY, HARVEY W., J	520.00
0463861	PRINTER, ADP	NORTHERN TELECOM SYSTEMS CORP	NT6K51	229509	WATSON, WILLIAM H.,	795.00
0527607	PRINTER, ADP	EPSON AMERICA INC	P10FC(FX286)	04027439	MCLEMORE, FRANCES D.	479.00
0547998	PRINTER, ADP	OKIDATA CORP	MICROLINE84	155044	CUCURA, STEPHEN J.,	1200.00
0549928	PRINTER, ADP	EPSON AMERICA INC	FX80	434199	PARSON, LAURICE E.,	758.00
0847720	PRINTER, ADP	TEXAS INSTRUMENTS INC CONTROL	855	1885570030	SAULSBURY, GERHARD F	548.00
0141900	PRINTER, ADP	PANASONICS	KXP10911	6LWALC39759	KENT, GREGORY S.	229.00
1089947	PRINTER, ADP	TEXAS INSTRUMENTS INC CONTROL	MICROLASER PLUS	4539710223	HOPSON, VERTLEY V.	1645.00
G077927	PRINTER, ADP	STAR GRAPHIC SYS DATASCAN	NX10	180470401846	ROME, KAYE D.,	185.00
G077946	PRINTER, ADP	APPLE COMPUTER INC	LASERWRITERII	CA8031ENSK6000	HINES, THERESA H.,	3219.00
1086868	PRINTER, ADP	TEXAS INSTRUMENT DIGITAL SYS	56822	1521010006	RODGERS, ERNESTINE E	1551.00
0849207	PRINTER, ADP	HEWLETT-PACKARD CO	33440A	1353271	HAINES, JOHN H.	1800.00

1091371	PRINTER, ADP	PANASONICS	KX-P1124	OMDAQOF45602	CUCURA, STEPHEN J.,	259
1089004	PRINTER, ADP	BRADY W H CO	BHXC	30686	VOSS, KENNETH E.	804
1089043	PRINTER, ADP	HEWLETT-PACKARD CO	2279A	3137563492	PRESTON, FRANK S.,	481
1092299	PRINTER, ADP	TEXAS INSTRUMENTS INC	PS35+	0639720076	ELLIOTT, DAVID F.	1624
G077897	PRINTER, ADP	OKIDATA CORP	182	60780211468	EVANS, AGNES B.	228
G077944	PRINTER, ADP	STAR GRAPHIC SYS DATASCAN	NX-1000	310071104858	UTLEY, JUDITH A.	160
G077945	PRINTER, ADP	DIGITAL EQUIPMENT CORP	LAT5A2	TY70910	HALSEY, WALTER F.	582
1156565	PRINTER, ADP	APPLE COMPUTER INC	LASERWRITER IIG	CA1462614H6000	VOSS, KENNETH E.	328
1255251	PRINTER, ADP	QMS INC	1725-1	Q0074034	CLEVELAND, JEFF I.,	9046
0056388	PRINTER/PLOTTER	IOLINE CORP	LP4000	P4081723	MURRAY, HARVEY W., J	5771
0144162	PROCESSOR, AUDIO	A T I INDUSTRIES F- AIRCRAFT	EM1000-1	5116	BELCHER, RODNEY	1065-
0398498	PROCESSOR, AUDIO	AUDIO TECHNOLOGIES INC	EM1000-1	8667	BELCHER, RODNEY	123-
1159236	PROCESSOR, SIGNAL	SCIENTIFIC-ATLANTA INC	6150	104366	BELCHER, RODNEY	256
1159237	PROCESSOR, SIGNAL	SCIENTIFIC-ATLANTA INC	6150	104336	BELCHER, RODNEY	256
1092308	PROCESSOR, SIGNAL	SCIENTIFIC-ATLANTA INC	6150	045633	VOSS, KENNETH E.	254
0140774	PROGRAMMER, TELEVISION TUNER	SCIENTIFIC-ATLANTA INC	8551-535	SOT500236	BELCHER, RODNEY	100
G077044	BACK, INSTRUMENT	TELEMETRICS	16R	150-057	CUCURA, STEPHEN J.,	945
0053667	RECEIVER	SATELLITE TELEVISION SYSTEMS	SR110	60104803	BELCHER, RODNEY	400
1156840	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032512	BELCHER, RODNEY	1956
1156841	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032513	BELCHER, RODNEY	1956
1156842	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032514	BELCHER, RODNEY	1956
1156843	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032515	BELCHER, RODNEY	1956
1156844	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032516	BELCHER, RODNEY	1956
1156845	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032517	BELCHER, RODNEY	1956
1156846	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032518	BELCHER, RODNEY	1956
1156847	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032519	BELCHER, RODNEY	1956
1156848	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032520	BELCHER, RODNEY	1956
1156849	RECEIVER	SCIENTIFIC-ATLANTA INC	6960SDF	0032521	BELCHER, RODNEY	1956
0144123	RECEIVER, CONTROL	M/A-COM MICROWAVE POWER DEVICES	MA23VFM-RX	1948	BELCHER, RODNEY	249
0144198	RECEIVER, CONTROL	M/A-COM MICROWAVE POWER DEVICES	MA23VFM-RX	1948	BELCHER, RODNEY	249
0019685	RECEIVER, RADIO	MOTOROLA INC	A03TNC2468AC	413BNC-0686	FAY, JOHN D.	31
0021426	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	BRAVO	334BPS7M54	VOSS, KENNETH E.	13
0021427	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	BRAVO	BN4BQJZRPQ	VOSS, KENNETH E.	13
0258778	RECEIVER, RADIO	MOTOROLA INC	A037NC2468AC	413BLJ0531	LITTLE, HUGH D.	31
0258779	RECEIVER, RADIO	MOTOROLA INC	A037NC2468AC	413BLJ0532	NEWTON, CLARENCE P.	31
0258780	RECEIVER, RADIO	MOTOROLA INC	A037NC2468AC	413BLJ0533	STEIN, BRUCE W.	31
0398608	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	A03TNC2468C	413BLJ1389	WATTS, THOMAS F., SR	31
0801800	RECEIVER, RADIO	NEC INFORMATION SYSTEMS INC	R3M4-12A	502094291K	VOSS, KENNETH E.	22
0848976	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	A03TNC2468C	413BQAO258	GUSTAFSON, CREIGHTON	2
0848977	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	A03TNC2468C	413BQAO259	BELCHER, RODNEY	1
0021402	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	BRAVO	BN4BQJZRPQ	VOSS, KENNETH E.	1
0021428	RECEIVER, RADIO	MOTOROLA COMMUNICATIONS GROUP	BRAVO	BN4BQJZRPQ	VOSS, KENNETH E.	1
0021177	RECEIVER, RADIO, BEEPER	MOTOROLA INC	A038AB4961BA	0026707	CUCURA, STEPHEN J.,	26
0021178	RECEIVER, RADIO, BEEPER	MOTOROLA INC	A038AB4961BA	0026757	CUCURA, STEPHEN J.,	26
0021180	RECEIVER, RADIO, BEEPER	MOTOROLA INC	A038AB5961CA	0272401	VOSS, KENNETH E.	195

0021181	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03B8B5961CA	0272449	VOSS, KENNETH E.	190.0
0021182	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03GAB4668MA	452663	VOSS, KENNETH E.	118.0
0801663	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03J8B5961CA	B04BSE6FX8	VOSS, KENNETH E.	119.0
0801664	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03J8B5961CA	B04BSE6FR8	VOSS, KENNETH E.	119.0
0801665	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03J8B5961CA	B04BSE6G3D	VOSS, KENNETH E.	119.0
0021179	RECEIVER, RADIO, BEEPER	MOTOROLA INC AUTOMOTIVE PROD	A03GAB4668MA	452664	VOSS, KENNETH E.	118.0
0058310	RECEIVER, SATELLITE	CHAPARRAL INDUSTRIES INC	03	406827	BELCHER, RODNEY	800.0
0058311	RECEIVER, SATELLITE	CHAPARRAL INDUSTRIES INC	03	400435	BELCHER, RODNEY	800.0
0140861	RECEIVER, TELEVISION	SONY CORP	CWH1271	2008783	BELCHER, RODNEY	600.0
0140862	RECEIVER, TELEVISION	SONY CORP	CWH1271	2008795	BELCHER, RODNEY	600.0
1159865	RECEIVER, TELEVISION	WAVETEX SAN DIEGO INC	1865B	3143012	BELCHER, RODNEY	7595.0
1159233	RECEIVER, VIDEO	SCIENTIFIC-ATLANTA INC	9650	A02017911	BELCHER, RODNEY	1340.0
1259412	RECEIVER, VIDEO	SCIENTIFIC-ATLANTA INC	9650	A020186DA	BELCHER, RODNEY	1285.0
0141278	RECORDER, CASSETTE, VIDEO	SHARP ELECTRONICS CORP	XA120	313573	BELCHER, RODNEY	640.0
1156576	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U55	U55042981	BELCHER, RODNEY	560.0
0144118	RECORDER, CASSETTE, VIDEO	PANASONICS	AG6300	C5TA00346	BELCHER, RODNEY	1431.0
1090618	RECORDER, CASSETTE, VIDEO	PANASONICS	AG2520P	L1KN00601	BELCHER, RODNEY	420.0
1090619	RECORDER, CASSETTE, VIDEO	PANASONICS	AG2520P	L1KN00612	BELCHER, RODNEY	420.0
1090620	RECORDER, CASSETTE, VIDEO	PANASONICS	AG2520P	L1KN00614	BELCHER, RODNEY	420.0
1156575	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U55	U55043395	BELCHER, RODNEY	560.0
1156577	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U55	U55036101	BELCHER, RODNEY	560.0
1159922	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U57	5726274	BELCHER, RODNEY	519.0
1159923	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U57	5727152	BELCHER, RODNEY	519.0
1159924	RECORDER, CASSETTE, VIDEO	MITSUBISHI ELECTRIC CORP	HS-U57	5727337	BELCHER, RODNEY	519.0
G077817	RECORDER, PLAYER, AUDIO	DICTAPHONE CP F-KINELOGIC CP	5842	962751	CUCURA, STEPHEN J.,	3375.0
0144115	RECORDER, TAPE, VIDEO	SONY CORP	V05600	46461	BELCHER, RODNEY	1809.0
0144148	RECORDER, TAPE, VIDEO	SONY CORP	V05600	44961	BELCHER, RODNEY	1809.0
0144193	RECORDER, TAPE, VIDEO	PANASONICS	NV8950	EZH000527	BELCHER, RODNEY	1516.0
0284492	RECORDER, TAPE, VIDEO	MITSUBISHI ELEC INDUS CO	NV8950	C5HL00097	BELCHER, RODNEY	1506.0
1156829	RECORDER, TAPE, VIDEO	SONY CORP	PMW2800	12789	BELCHER, RODNEY	13200.0
0141055	REFLECTOMETER	LASER PRECISION CORP	TD9950	8704-1622	VOSS, KENNETH E.	8955.0
1156826	REFLECTOMETER	HEWLETT-PACKARD CO	8146A	3221G00445	VOSS, KENNETH E.	12710.0
0053668	SATELLITE DISH	SATELLITE TELEVISION SYSTEMS	PAC2085	NONE	BELCHER, RODNEY	1000.0
0058312	SATELLITE DISH	SKY COMPUTER INC	3777	NONE	BELCHER, RODNEY	1450.0
G076829	SCANNER, PAIR	MICROTST INC	3910-00	7504	VOSS, KENNETH E.	1613.0
1088994	SCANNER, PAIR	MICROTST INC	3910-00	PS91G000221	VOSS, KENNETH E.	1653.0
1088995	SCANNER, PAIR	MICROTST INC	3910-00	PS91G000225	VOSS, KENNETH E.	1653.0
G077882	SHREDDING MACHINE, PAPER, OFFICE	ELECTRIC WASTEBASKET CORP.	299	NONE	STAPLER, RODGER W.	189.0
1156580	SPLICER, FIBER OPTIC	SIECOR OPTICAL CABLES	H900SH-WC	711	VOSS, KENNETH E.	31500.0
0144171	SWITCHER, AUDIO/VIDEO	HINN MINING & MFG	15X120UT	NONE	BELCHER, RODNEY	5440.0
0137887	SWITCHER, VIDEO	DYNAIR ELECTRONICS INC	FR2101C	260896	BELCHER, RODNEY	2167.0
0137888	SWITCHER, VIDEO	DYNAIR ELECTRONICS INC	FR2102C	266520	BELCHER, RODNEY	3017.0
0144131	SWITCHER, VIDEO	DYNAIR ELECTRONICS INC	F2102C	233406/H3	BELCHER, RODNEY	2805.0
0144132	SWITCHER, VIDEO	DYNAIR ELECTRONICS INC	F2102C	198611/K3	BELCHER, RODNEY	1913.0
0144152	SWITCHER, VIDEO	VIDEOTEK INC	RC10A	08850140	BELCHER, RODNEY	1092.0

1092092 SWITCHING UNIT, ELECTRONIC COM	FARALLON COMPUTING CORP	PN357	09-18444	VOSS, KENNETH E.	1742.
1090329 TABLET, GRAPHICS	SUNMAGRAPHS CORP	MHT11812	010343004E31110027	MURRAY, HARVEY W., J	549.
1255463 TELETYPEWRITER	KROWN RESEARCH	MP200	34402-42	WATTS, THOMAS F., SR	425.
1255466 TELETYPEWRITER	KROWN RESEARCH	MP200	33657-42	WATTS, THOMAS F., SR	425.
1255467 TELETYPEWRITER	KROWN RESEARCH	MP200	33664-42	WATTS, THOMAS F., SR	425.
1255470 TELETYPEWRITER	KROWN RESEARCH	MP200	33665-42	WATTS, THOMAS F., SR	425.
1255471 TELETYPEWRITER	KROWN RESEARCH	MP200	33663-42	WATTS, THOMAS F., SR	425.
1255472 TELETYPEWRITER	KROWN RESEARCH	MP200	33664-42	WATTS, THOMAS F., SR	425.
1255464 TELETYPEWRITER	KROWN RESEARCH	MP200	34411-42	WATTS, THOMAS F., SR	425.
1255465 TELETYPEWRITER	KROWN RESEARCH	MP200	33660-42	WATTS, THOMAS F., SR	425.
1255468 TELETYPEWRITER	KROWN RESEARCH	MP200	33670-42	WATTS, THOMAS F., SR	425.
1255469 TELETYPEWRITER	KROWN RESEARCH	MP200	33669-42	WATTS, THOMAS F., SR	425.
6076625 TERMINAL SERVER	CISCO SYSTEMS INC	ASH1-64BX	A0688S024	VOSS, KENNETH E.	11240
6077954 TERMINAL, DATA PROCESSING	MAGITRONIC TECHNOLOGY INC	PC/AT	8800518	PAYNE, LAURETTA J.	1157
6077149 TERMINAL, DATA PROCESSING	CHEUNG LABS	PC/XT	260532	PAYNE, LAURETTA J.	800
6077957 TERMINAL, DATA PROCESSING	MAGITRONIC TECHNOLOGY INC	PC/AT	8800523	EKLUND, LYRNE	1157
6077959 TERMINAL, DATA PROCESSING	MAGITRONIC TECHNOLOGY INC	PC/AT	8800519	JAY, MARY J.	1157
1086863 TERMINAL, DATA PROCESSING	PRINCETON GRAPHIC SYSTEMS	ULTRA X	M210900200440	PAYNE, LAURETTA J.	1376
1089538 TERMINAL, DATA PROCESSING	NETWORKING COMPUTING DEVICES	999035902E	M201526	PAYNE, LAURETTA J.	1330
1089539 TERMINAL, DATA PROCESSING	NETWORKING COMPUTING DEVICES	NC0999035902E	M201309	PAYNE, LAURETTA J.	1330
1084680 TERMINAL, DATA PROCESSING	SUNNYVALE MEMORIES	486	MH10043	MORRIS DANIEL C., II	2835
6077861 TERMINAL, DATA PROCESSING	MICROSERVE	X/TURBO	7704155	BRITTO, JOHN A. F.,	750
0054499 TERMINAL, DATA PROCESSING	SUN MICROSYSTEMS INC	3/50	810F1095	HAMPTON, WILLIAM A.,	3271
0054500 TERMINAL, DATA PROCESSING	SUN MICROSYSTEMS INC	3/50	809F0006	BYNUM, MARY ANN O.,	3271
0054501 TERMINAL, DATA PROCESSING	SUN MICROSYSTEMS INC	3/50	806F0495	TOWNES, LAVERNE H.,	3271
0055583 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	C1003A	281404639	COLLINS, ANNE-MARIE	181
0055584 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	C1003A	2815A04643	COLLINS, ANNE-MARIE	181
1256018 TERMINAL, DATA PROCESSING	BI-LINK COMPUTER INC	VGA433	24310668	STURGIS, WILLIAM J.,	1448
0060727 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	C1003A	2908A07065	COLLINS, ANNE-MARIE	220
0060728 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	C1003A	2908A07071	COLLINS, ANNE-MARIE	220
0137803 TERMINAL, DATA PROCESSING	DIGITAL EQUIPMENT CORP	VT220F2	TN638E0017	JACKSON CHARLES H.,	633
1256021 TERMINAL, DATA PROCESSING	BI-LINK COMPUTER INC	VGA433	24310669	STAPLER, RODGER W.	1448
0140909 TERMINAL, DATA PROCESSING	DIGITAL EQUIPMENT CORP	VT220F2	HK71030099	BYNUM, MARY ANN O.,	6926
0258693 TERMINAL, DATA PROCESSING	TEKTRONIX INC	4107A	B023547	DUCKETT, ROY J.,	38
0258847 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	PT	86040312A	VOSS, KENNETH E.	745
0280022 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	925	C271140023	CUCURA, STEPHEN J.,	745
0280023 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	925	C271140024	CUCURA, STEPHEN J.,	1050
0280099 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	970	93091759	CUCURA, STEPHEN J.,	400
0280208 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	PT	D280150095	CUCURA, STEPHEN J.,	400
0281610 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	PT	D29035014	VOSS, KENNETH E.	400
0398638 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	PT	18AD86060079A	BEICHER, ROUNEY	750
0398881 TERMINAL, DATA PROCESSING	LEAR SIEGLER ELECTR INSTR DIV	ADM3E	3019	VOSS, KENNETH E.	295
0404046 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	2623A MODIFIED	2342V70834	COOKE, BARBARA A.	3440
0404047 TERMINAL, DATA PROCESSING	HEWLETT-PACKARD CO	2623A MODIFIED	2342V70929	COOK, MICHELLE I.	3440
0404509 TERMINAL, DATA PROCESSING	TELEVIDEO CORP	925	73109345	CUCURA, STEPHEN J.,	795



0827163	TERMINAL, DATA PROCESSING	APPLIED DIGITAL DATA SYSTEMS	VPT122	K202259	500.	LOVELL, RONNIE S.
0462107	TERMINAL, DATA PROCESSING	LEAR SIEGLER ELECTR INSTR DIV	ADM3A	510601	737.	VOSS, KENNETH E.
0548782	TERMINAL, DATA PROCESSING	TELEVIDEO SYSTEMS INC	PT	40300673	400.	VOSS, KENNETH E.
1084685	TERMINAL, DATA PROCESSING	MICROSERVE	386SX	68105723	1349.	RAGIN, ANGELA, S.,
1084670	TERMINAL, DATA PROCESSING	SUN MICROSYSTEMS INC	3/50	711E2051	6557.	KAISER, JOHN B.
0549610	TERMINAL, DATA PROCESSING	DIGITAL EQUIPMENT CORP	VT240A	ABA11010D69	1624.	CLEVELAND, JEFF I.,
6077960	TERMINAL, DATA PROCESSING	MAGITRONIC TECHNOLOGY INC	PC/AT	8800520	1157.	LEE, LUCIA L.
1084673	TERMINAL, DATA PROCESSING	MICROSERVE	X/TURBO	7704166	750.	HAMPTON, WILLIAM A.,
1084714	TERMINAL, DATA PROCESSING	MICROSERVE	X/TURBO	7704153	750.	ROBBINS, STEVEN W.,
0059163	TERMINAL, DATA PROCESSING	SUN MICROSYSTEMS INC	3/60M4P14	838F2327	4169.	HAMPTON, WILLIAM A.,
0849206	TERMINAL, DATA PROCESSING	I C PERSONAL COMPUTER	9PT12L	16818	3594.	MCLEMORE, FRANCES D.
1084684	TERMINAL, DATA PROCESSING	MICROSERVE	386SX	68105846	1349.	CRICHESTER, JOSEPH G
6077163	TERMINAL, DATA PROCESSING	TELEVIDEO SYSTEMS INC	TV1970	93040247	1150.	PARKER, PATRICIA
1084712	TERMINAL, DATA PROCESSING	MICROSERVE	X/TURBO	7704167	750.	JACKSON CHARLES H.,
6077968	TERMINAL, DATA PROCESSING	MICROSERVE	X/TURBO	7704154	750.	SAULSBURY, GERHARD F
6077940	TERMINAL, DATA PROCESSING	EVEREX SYSTEMS INC	1800A	BK26988	2327.	FALLIEU, KATHLEEN A.
0221791	TERMINAL, DATA PROCESSING	SELMAR CORP (DISCONTINUED)	RITREZ100XL	611007302	1300.	HAUSEY, WALTER F.
6076768	TERMINAL, SERVER	CISCO SYSTEMS INC	ASH	A12887329	9920.	VOSS, KENNETH E.
6076770	TERMINAL, SERVER	CISCO SYSTEMS INC	ASH	A12887330	9920.	VOSS, KENNETH E.
6076776	TERMINAL, SERVER	CISCO SYSTEMS INC	ASH1-32EM	A06885022	8120.	VOSS, KENNETH E.
6076777	TERMINAL, SERVER	CISCO SYSTEMS INC	ASH1-32EM	A06885023	8120.	VOSS, KENNETH E.
6077042	TEST INSTRUMENT	PROBIX MICROSPACE INC.	5575	504	3320.	CUCURA, STEPHEN J.,
0282471	TEST SET, MODEN LINE	INTERNATIONAL DATA SCIENCES	4010	401363	2785.	CUCURA, STEPHEN J.,
0282472	TEST SET, MODEN LINE	INTERNATIONAL DATA SCIENCES	4010	401364	2785.	CUCURA, STEPHEN J.,
0462472	TEST SET, MODEN LINE	INTERNATIONAL DATA SCIENCES	1200	90371	1641.	CUCURA, STEPHEN J.,
0462550	TEST SET, MODEN LINE	INTERNATIONAL DATA SCIENCES	1310MODIFIED	131470	2362.	VOSS, KENNETH E.
0462551	TEST SET, MODEN LINE	INTERNATIONAL DATA SCIENCES	1310MODIFIED	131468	2362.	CUCURA, STEPHEN J.,
0404225	TESTER, CABLE	TEXTRONIX INC	1502	B114783	6576.	VOSS, KENNETH E.
0548687	TESTER, CABLE	TEXTRONIX INC	1503	R095557	6325.	VOSS, KENNETH E.,
6076603	FINE DOMAIN REFLECTOMETER	TEXTRONIX INC	ADPT	B025041	4673.	VOSS, KENNETH E.
6076596	TRANSCIEIVER, EIGHTPORT	AMERICAN NETWORK CONNECTION	ANC80	10033	661.	VOSS, KENNETH E.
6076618	TRANSCIEIVER, EIGHTPORT	AMERICAN NETWORK CONNECTION	ANC80	10067	661.	VOSS, KENNETH E.
1092072	TRANSCIEIVER, RADIO	MOTOROLA INC AUTOMOTIVE PROD	HT600	651ASG0506	463.	VOSS, KENNETH E.
1092073	TRANSCIEIVER, RADIO	MOTOROLA INC AUTOMOTIVE PROD	HT600	651ASG0507	463.	VOSS, KENNETH E.
0144085	TRANSMITTER, CONTROL	M/A-COM MICROWAVE POWER DEVICES	MA23VFN-TX	1915	2499.	BELCHER, ROONEY
1156838	TRANSMITTER, ELECTRONIC	SCIENTIFIC-ATLANTA INC	6460SDF	0022512	13000.	BELCHER, ROONEY
1156839	TRANSMITTER, ELECTRONIC	SCIENTIFIC-ATLANTA INC	6460SDF	0022517	13000.	BELCHER, ROONEY
1159921	TRANSMITTER, VIDEO	WAVETEX SAN DIEGO INC	1855B	3053099	4745	BELCHER, ROONEY
0827160	TRANSPORT, MAGNETIC TAPE	APPLIED DIGITAL DATA SYSTEMS	2922	611-1318	10000	LOVELL, RONNIE S.
1084849	TRANSPORT, MAGNETIC TAPE	SUN MICROSYSTEMS INC	EXP2	110C4280	5200	COLLINS, ANNE-MARIE
1091771	TRANSPORT, MAGNETIC TAPE	HEWLETT-PACKARD CO	9144A	3107E, 98932	1950	CLEVELAND, JEFF I.,
1156035	TRANSPORT, MAGNETIC TAPE	HEWLETT-PACKARD CO	C1521B	3216E01335	4150	CLEVELAND, JEFF I.,
1084691	TRANSPORT, MAGNETIC TAPE	SUN MICROSYSTEMS INC	EXP2	048C0648	1280	ELLIOTT, DAVID F.
6077866	TRANSPORT, MAGNETIC TAPE	COMPUTER DESIGN CORP	94171	2341	4177.	BAZA, CARMEN R.,
0802034	TRANSPORT, MAGNETIC TAPE	EXABYTE CORP	EX88200	728569	2220.	BAZA, CARMEN R.,

1159931 TRANSPORT, MAGNETIC TAPE  
0144126 TRAY, FIBER OPTIC  
0144130 TRAY, FIBER OPTIC  
1157752 TRUCK, PICKUP  
1157750 TRUCK, VAN, PANEL  
1157751 TRUCK, VAN, PANEL  
0061068 TRUCK, VAN, PANEL  
0061069 TRUCK, VAN, PANEL  
0061070 TRUCK, VAN, PANEL  
0061071 TRUCK, VAN, PANEL  
0462164 TYPEWRITER  
G076786 VAN  
G061486 VAN, MINI  
G061487 VAN, MINI  
0801830 VECTORSCOPE  
G074787 WORK STATION, OFFICE  
G074788 WORK STATION, OFFICE  
G074789 WORK STATION, OFFICE

SUN MICROSYSTEMS INC  
GRASS VALLEY GROUP INC THE  
GRASS VALLEY GROUP INC THE  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
INTERNATIONAL BUSINESS MACHINE 895  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
FORD MOTOR CO FORD PARTS  
TEXTRONIX INC  
CENTER CORE INC  
CENTER CORE INC  
CENTER CORE INC

X660A  
NONE  
NONE  
F250  
ECONOLINE E150  
ECONOLINE E150  
AEROSTAR  
AEROSTAR  
AEROSTAR  
AEROSTAR  
AEROSTAR  
INTERNATIONAL BUSINESS MACHINE 895  
AEROSTAR  
AEROSTAR  
MINI VAN1989  
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NONE  
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NONE

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IFTDA14U4K2B64397  
IFTDA14U7K2B11757  
2408688  
IFTDE14Y1GHA75360  
IFTDA1402K2C21843  
VM/IFTDA1446K2C21845  
B031615  
NONE  
NONE  
NONE

VOSS, KENNETH E.  
BELCHER, RODNEY  
BELCHER, RODNEY  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
BYANS, AGNES B.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
VOSS, KENNETH E.  
BELCHER, RODNEY  
LITTLE, HUGH D.  
SWEDLUND, MARILYN K.  
WOODCOCK, CLARKE T.,

1200.00  
3182.00  
3182.00  
15490.00  
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11773.00  
660.00  
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11892.00  
11892.00  
1973.00  
2048.45  
2048.45  
2048.45

**EXHIBIT E**  
**SUBCONTRACTING PLAN**

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#### 4.1.1 Definitions

##### 4.1.1.1 Small Business Concern

As used in this Subcontracting Plan, the term "Small Business Concern" means a business as defined pursuant to Section 3 of the Small Business Act and relevant regulations. Generally, this means a Small Business Concern organized for profit, which is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in Government regulations.

##### 4.1.1.2 Small Disadvantaged Business Concern

As used in this Subcontracting Plan, the term "Small Disadvantaged Business Concern" means a Small Business Concern which is at least 51 percent owned by one or more socially and economically disadvantaged individuals; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individuals; and, whose management and daily business operations are controlled by one or more such individuals.

The term "socially and economically disadvantaged individuals" includes Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans, Subcontinent Asian Americans, and other minorities (as qualified by the U.S. Small Business Administration), or any other individual found to be qualified by the Small Business Administration under 13 CFR 121.1. The term "Native Americans" includes American Indians, Eskimos, Aleuts, and Native Hawaiians.

The term "Asian-Pacific Americans" includes United States citizens whose origins are in Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, the U.S. Trust Territory of the Pacific Islands, the Northern Mariana Islands, Laos, Kampuchea (Cambodia), Taiwan, Burma, Republic of the Marshall Islands, or the Federated States of Micronesia. Socially and economically disadvantaged entities also include Indian tribes and Native Hawaiian organizations.

4.1.2 Percentage Goals

The following goals for the use of Small Business and Small Disadvantaged Business Concerns as subcontractors have been established based upon the estimated total dollar amount specified in paragraph 4.1.3:

- Small Business Concerns 40.5%
- Small Disadvantaged Business Concerns 37.6%

4.1.3 Dollar Goals

CSC has established, in this Plan, the following subcontracting goals:

- Small Business Concerns \$2,092,510
- Small Disadvantaged Business Concerns 27,002,628
- Other than Small or Small Disadvantaged Business Concerns \$42,700,210
- Total Dollars to be Subcontracted \$71,795,349

4.1.4

4.1.5 Principal Types of Subcontracts

The principal types of supplies and services CSC contemplates subcontracting are:

- 
- 
- 
- 
- 
- 
- 
- 

4.1.5.1 The types of supplies and services planned to be subcontracted to Small Business Concerns include:

- 
- 
- 
- 
- 
-

TOTAL CONTRACT

CSC's Percentage and Dollar Base / Subcontracting Goals	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Total All Perqs
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Percentage Goals by Contract Period

Small Business Concerns	42.5%	39.9%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	40.5%
Small Disadvantaged Business Concerns	39.6%	37.0%	36.2%	36.2%	36.2%	36.2%	36.2%	36.2%	37.6%

Dollar Goals by Contract Period

Small Business Concerns	\$477,971	\$901,424	\$26,651	\$26,651	\$26,651	\$26,651	\$26,651	\$26,651	\$2,092,510
Small Disadvantaged Business Concerns	6,632,401	11,404,605	326,715	326,715	326,715	326,715	326,715	326,715	27,002,628
Other Than Small or Small Disadvantaged Business Concerns	9,501,924	18,540,801	551,464	551,464	551,464	551,464	551,464	551,464	42,700,210

Total Estimated Amount To Be Subcontracted	\$16,512,375	\$18,995,089	\$30,846,909	\$806,829	\$906,829	\$906,829	\$906,829	\$906,829	\$71,795,349
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Table 4.1-1  
CSC's Subcontracting Goals by Contract Period



BASIC LEVEL OF EFFORT

CSC's Percentage and Dollar Subcontracting Goals	Base Period	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Total All Periods

Percentage Goals by Contract Period

Small Business Concerns  
 Small Disadvantaged Business Concerns

Dollar Goals by Contract Period

Small Business Concerns  
 Small Disadvantaged Business Concerns  
 Other Than Small or Small Disadvantaged Business Concerns

Total Estimated Amount To Be Subcontracted

Table 4.1-2  
 CSC's Subcontracting Goals by Contract Period

ADDITIONAL LEVEL OF EFFORT

CSC's Percentage and Dollar Subcontracting Goals	Base Contract Period	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Total All Period

Percentage Goals by Contract Period

Small Business Concerns  
 Small Disadvantaged Business Concerns

Dollar Goals by Contract Period

Small Business Concerns Percent of Contract Amount  
 Small Disadvantaged Business Concerns Percent of Contract Amount  
 Other Than Small or Small Disadvantaged Business Concerns

Total Estimated Amount To Be Subcontracted

Total Contract Amount

Table 4.1-3  
 CSC's Subcontracting Goals by Contract Period

- Training

4.1.5.2 The types of supplies and services planned to be subcontracted to Small Disadvantaged Business Concerns include:

- 
- 
- 
- 
- 
- 

4.1.5.3 The types of supplies and services planned to be subcontracted to Women-Owned Small Business Concerns include:

- 
- 
- 

4.1.6

#### 4.1.9 Administration of the Subcontracting Program

##### 4.1.9.1 Administrator

The individual who will administer the Subcontracting Program for this contract is:

Name:

Title:

Telephone No:

##### 4.1.9.2 Description of Duties

The \_\_\_\_\_ will be responsible for implementing corporate policy to ensure CSC's compliance with Federal regulations.

The \_\_\_\_\_ also will maintain liaison with Government representatives charged with monitoring those efforts. Specific functions will be:

- To collect and review current information regarding Government regulations, and to disseminate that information to appropriate CSC personnel.
- To assist in establishing goals and measuring performance against those goals.

- To ensure that all required reports are submitted in a timely manner.
- To coordinate with the Contracting Officer and other appropriate Government officials concerning CSC's actions with respect to any subcontracts awarded or any other considerations with respect to CSC's Small and Small Disadvantaged Business Subcontracting Program.
- To coordinate CSC participation in studies and programs which further the interests of Small and Small Disadvantaged Business Concerns.

#### 4.1.10 Efforts to Assure Equitable Opportunity to Compete

The following is a description of efforts which will be taken to assure Small Business and Small Disadvantaged Business Concerns will have equitable opportunity to compete for subcontracts.

##### 4.1.10.1

- To ensure consideration of Small and Small Disadvantaged Business Concerns
  
- To promote discussions with small and small disadvantaged businesses regarding potential subcontracting opportunities.
  
- To retain capabilities information for small and small disadvantaged firms,
  
  
- To ensure that, to the maximum extent practicable, small and small disadvantaged businesses are encouraged to compete for subcontracts.
  
- To ensure that, in keeping with the urgency of the requirement, sufficient time is allowed to determine if and why small and small disadvantaged businesses did not respond to solicitations.
  
- 
  
-

#### 4.1.12 Clause Inclusion

In accordance with FAR 19.708(a), CSC will include the clause at 52.219-8, entitled "Utilization of Small Business Concerns and Small Disadvantaged Business Concerns," in solicitations and subcontracts when the value is expected to exceed \$25,000, unless for personal services or to be performed entirely outside the United States and its territories and possessions. In addition, as the prime contractor, CSC will require all subcontractors (except Small Business Concerns) who receive subcontracts in excess of \$500,000 (\$1,000,000 in the case of a contract for construction of any public facility) to adopt a plan

similar to the plan required by the clause at 52.219-9, entitled "Small Business and Small Disadvantaged Business Subcontracting Plan."

#### 4.1.13 Cooperation and Reporting

CSC will cooperate in any small and small disadvantaged business studies or surveys as may be required by the Small Business Administration. In addition, CSC will submit periodic reports in order that the Government may determine the extent of CSC's compliance with this subcontracting plan, including Standard Form 294, Subcontracting Report for Individual Contracts, and Standard Form 295, Summary Subcontract Report, in accordance with the instructions on the forms. CSC assures that any subcontractors who are selected to perform services, will agree to submit these Standard Forms, as applicable.

#### 4.1.14 Records Maintenance

To assist in demonstrating compliance with Government requirements, CSC will maintain at least the following types of records:

##### 4.1.14.1 Identification of Small/Small Disadvantaged Business Concerns

CSC will document compliance by maintaining Small Business and Small Disadvantaged Business Concern source lists, guides, and other data identifying potential suppliers.



#### 4.1.14.2 Organizations Contacted

CSC will maintain records indicating organizations contacted to locate Small and Small Disadvantaged Business Concerns.

#### 4.1.14.3 Subcontract Solicitations of More Than \$100,000

CSC will maintain, on a contract-by-contract basis, records on all subcontract solicitations over \$100,000, indicating on each solicitation (a) whether Small Business Concerns were solicited, and if not, why not; (b) whether small disadvantaged business concerns were solicited, and if not, why not; and (c) if applicable, reasons for the failure of solicited Small or Small Disadvantaged Business Concerns to receive the subcontract award.

#### 4.1.14.4 Outreach Efforts To Locate Small/Small Disadvantaged Business Sources

Records to support outreach efforts will include contacts with minority and small business trade associations, business development organizations, and attendance at small and small disadvantaged procurement conferences and trade fairs.

#### 4.1.14.5 Internal Guidance and Encouragement to Buyers

Records will be maintained to support internal activities that guide and encourage buyers to monitor activities and to evaluate compliance with the program's requirements. CSC is committed to achieving the objectives established in its Small Business and Small Disadvantaged Business Subcontracting Plan.

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#### 4.1.14.6 Support of Award Data Submitted to the Government

CSC will prepare and maintain the following subcontract documentation package which will contain the history of activities from decision to buy through the solicitation process and subsequent award.

- Customer Work Requirements
- 
- Statement of Work or Specifications
- Notification of Intent To Subcontract
- 
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- 
- Certifications and Representations

- 
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- 
- 
- Contracting Officer Consent to Placement
- 

The primary records maintained by CSC to monitor and evaluate our subcontracting results will be the Subcontracting Report for Individual Contracts, Standard Form 294, and the Summary Subcontracting Report, Standard Form 295. These reports list prime contract number, title and value, business classification, the dollar amount of total subcontracting, and percentage for small business, small disadvantaged business, and large business of the total amount. CSC's detailed Small Business Program Report then is compiled on the Standard Forms 294 and 295 for reporting to the Government.

#### 4.1.15 Approved Purchasing System

CSC's Applied Technology Division is integrated into a centralized, fully-automated procurement function which is DCMC-approved, in accordance with Contractor Purchasing System Review (CPSR) procedures.

#### 4.1.16 Payment to Subcontractors

CSC complies with the statutory requirements in FAR 19-702.

4.1.17 Corporate Policy

CSC's Corporate Management Policies on Small Business and Small Disadvantaged Business Subcontracting Programs, Labor Surplus Area Subcontracting Programs, and Utilization of Women-owned Business Concerns, along with the

are firmly committed to fulfilling the goals of the Small and Small Disadvantaged Contracting Plan as stated, pursuant to the requirements of the RFP.

EXHIBIT F  
REGISTER OF WAGE DETERMINATION AND FRINGE BENEFITS

U. S. DEPARTMENT OF LABOR  
 EMPLOYMENT STANDARDS ADMINISTRATION  
 WAGE AND HOUR DIVISION  
 WASHINGTON, D. C. 20210

REGISTER OF WAGE DETERMINATIONS UNDER  
 THE SERVICE CONTRACT ACT  
 By direction of the Secretary of Labor



Alan L. Moss      Division of  
 Director          Wage Determinations

LOCALITY	State: Virginia		
	Area: VA COUNTIES: HAMPTON		
Wage Determination No.: 78-1030 (Rev. 23) Date: 08/08/1992			
Minimum Hourly Wage	Fringe Benefit Payments		
	Health & Welfare	Vacation	Holiday
	Other		

Class of Service Employees

Employed on contracts for Administrative, Clerical, and Technical services at NASA Langley Research Center in the above locality:

- |                         |          |
|-------------------------|----------|
| 1. Accounting Clerk I   | \$ 6.55  |
| 2. Accounting Clerk II  | \$ 8.21  |
| 3. Accounting Clerk III | \$ 8.55  |
| 4. Accounting Clerk IV  | \$ 10.37 |
| 5. File Clerk I         | \$ 5.17  |
| 6. File Clerk II        | \$ 5.73  |
| 7. File Clerk III       | \$ 6.99  |
| 8. Inventory Clerk      | \$ 5.39  |
| 9. Messenger            | \$ 5.62  |
| 10. Order Clerk I       | \$ 6.36  |
| 11. Order Clerk II      | \$ 8.34  |
| 12. Payroll Clerk       | \$ 7.50  |
| 13. Receptionist        | \$ 6.09  |
| 14. Secretary I         | \$ 7.50  |
| 15. Secretary           | \$ 8.67  |
| 16. Secretary III       | \$ 9.23  |
| 17. Secretary IV        | \$ 10.13 |
| 18. Secretary V         | \$ 10.58 |
| 19. Stenographer I      | \$ 7.63  |
| 20. Stenographer II     | \$ 8.56  |

U.S. DEPARTMENT OF LABOR  
 EMPLOYMENT STANDARDS ADMINISTRATION  
 WAGE AND HOUR DIVISION  
 WASHINGTON, D.C. 20210

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Alan L. Moss                      Division of  
 Director                          Wage Determinations

LOCALITY	State: Virginia
	Area: VA COUNTIES: HAMPTON

Wage Determination No.: 78-1030 (Rev. 23) Date: 08/08/1992

Minimum Hourly Wage	Fringe Benefit Payments		
	Health & Welfare	Vacation	Holiday

Class of Service Employees

21. Switchboard Operator	\$	6.34			
22. Switchboard Operator- Receptionist	\$	6.65			
23. Typist I	\$	6.41			
24. Typist II	\$	7.67			
25. Word Processor I	\$	6.43			
26. Word Processor II	\$	7.97			
27. Computer Data Librarian	\$	7.47			
28. Computer Operator I	\$	7.73			
29. Computer Operator II	\$	9.06			
30. Computer Operator III	\$	10.84			
31. Computer Operator IV	\$	12.46			
32. Computer Programmer I 4/	\$	10.92			
33. Computer Programmer II 4/	\$	13.50			
34. Computer Programmer III 4/	\$	16.03			
35. Computer Systems Analyst I 4/	\$	14.65			
36. Computer Systems Analyst II 4/	\$	16.57			
37. Computer Systems Analyst III 4/	\$	19.34			
38. Key Entry Operator I	\$	6.35			
39. Key Entry Operator II	\$	7.86			
40. Peripheral Equipment Operator	\$	7.22			
41. Aircraft Mechanic	\$	13.09			
42. Aircraft Sheetmetal Mechanic	\$	13.09			
43. Aircraft Worker	\$	11.96			
44. Drafter I	\$	7.01			

U.S. DEPARTMENT OF LABOR  
 EMPLOYMENT STANDARDS ADMINISTRATION  
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LOCALITY	State: Virginia
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Wage Determination No.: 78-1030 (Rev. 23) Date: 08/08/1992

Minimum Hourly Wage	Fringe Benefit Payments		
	Health & Welfare	Vacation	Holiday

45. Drafter II	\$ 8.74			
46. Drafter III	\$ 10.65			
47. Drafter IV	\$ 13.36			
48. Drafter V	\$ 16.25			
49. Illustrator I	\$ 7.09			
50. Illustrator II	\$ 8.84			
51. Illustrator III	\$ 10.77			
52. Technician I	\$ 8.21			
53. Technician II	\$ 10.16			
54. Technician III	\$ 12.24			
55. Photo Lab Technician	\$ 8.06			
56. Emergency Medical Technician 4/	\$ 10.00			
57. Registered Industrial Nurse 4/	\$ 13.39			

Fringe benefits applicable to all classes of service employees engaged in contract performance:

1/ 2/ 3/



- 1/ **HEALTH & WELFARE:** Life, accident, and health insurance plans, sick leave, pension plans, civic and personal leave, severance pay, and savings and thrift plans: Employer contributions costing an average of \$2.23 per hour computed on the basis of all hours worked by service employees employed on the contract.
- 2/ **VACATION:** 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 10 years of service. Length of service includes the whole span of continuous service with the present (successor) contractor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 4.173)
- 3/ **HOLIDAYS:** 10 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 name holidays another day off with pay in accordance with a plan communicated to the employees involved.)
- 4/ The term "Service employee" does not include any employee who qualifies as an executive, administrative, or professional employee as those terms are identified in Regulations, Part 541, issued under the Fair Labor Standards Act. (See CFR, Part 541).

NOTE: The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. A written report of the proposed conforming action, including information regarding the agreement or disagreement of the authorized representative of the employees involved or, where there is no authorization of the representative, the employees themselves, shall be submitted by the contractor to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work. The contracting officer shall review the proposed action and promptly submit a report of the action, together with the agencies' recommendation and all 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 4)

UNIFORM ALLOWANCE: If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.80 a week (or 76 cents a day); and effective April 1, 1991, the rate shall be \$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.

NOTE: The duties of employees under job titles listed are those described in the Service Contract Act Directory of Occupations, Second Edition, July 1986, unless otherwise indicated. See also 29 CFR Part 4 Section 4.152.

\*\*\*\*\* OCCUPATIONS NOT INCLUDED IN THE SCA DIRECTORY OF OCCUPATIONS \*\*\*\*\*

PHOTO LAB TECHNICIAN

The photo lab technician must be able to process and evaluate the quality of the exposed rolls of aerial film, annotate the film with required identifying numbers and letters, make and process contact prints from aerial film, and make to scale project photoindexes of the mosaicked strips of aerial photography by use of a copy camera.

**EXHIBIT G**  
**CONTRACT SECURITY CLASSIFICATION SPECIFICATION**

<b>DEPARTMENT OF DEFENSE</b> <b>CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>	<b>1. CLEARANCE AND SAFEGUARDING</b> a. FACILITY CLEARANCE REQUIRED <b>SECRET</b> b. LEVEL OF SAFEGUARDING REQUIRED <b>NONE</b>
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2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>		3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>	
A. PRIME CONTRACT NUMBER	X NAS1-20048	a. ORIGINAL <i>(Complete date in all cases)</i>	X <span style="float: right;">Due Date (YYMMDD) 930726</span>
B. SUBCONTRACT NUMBER		b. REVISED /Supersedes all previous specs	Revision No. <span style="float: right;">Due Date (YYMMDD)</span>
C. SOLICITATION OR OTHER NUMBER	Due Date (YYMMDD)	c. FINAL <i>(Complete item 3 in all cases)</i>	Due Date (YYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT?  YES  NO If Yes, complete the following:  
 Classified material received or generated under \_\_\_\_\_ *(Preceding Contract Number)* is transferred to the follow-on contract.

5. IS THIS A FINAL DD FORM 254?  YES  NO If Yes, complete the following  
 In response to the contractor's request dated N/A, retention of the identified classified material is authorized for the period of N/A

6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i> a. NAME, ADDRESS, AND ZIP CODE COMPUTER SCIENCES CORPORATION 3217 N. ARMISTEAD AVENUE HAMPTON, VA. 23666	b. CAGE CODE T15720	c. Cognizant Security Office <i>(Name, Address, and Zip Code)</i> DEFENSE INVESTIGATIVE SERVICE 2461 EISENHOWER AVENUE ALEXANDRIA, VA. 22331
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7. SUBCONTRACTOR a. NAME, ADDRESS, AND ZIP CODE N/A	b. CAGE CODE N/A	c. Cognizant Security Office <i>(Name, Address, and Zip Code)</i> N/A
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8. ACTUAL PERFORMANCE a. LOCATION COMPUTER SCIENCES CORPORATION 3217 N. ARMISTEAD AVENUE HAMPTON, VA. 23666	b. CAGE CODE T15720	c. Cognizant Security Office <i>(Name, Address, and Zip Code)</i> N/A
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9. GENERAL IDENTIFICATION OF THIS PROCUREMENT  
 TO PROVIDE DATA PROCESSING SERVICE TO LANGLEY RESEARCH CENTER

10. THIS CONTRACT WILL REQUIRE ACCE	YES	NC	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		X	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	X
b. RESTRICTED DATA		X	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
d. FORMERLY RESTRICTED DATA		X	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	
e. INTELLIGENCE INFORMATION		X	e. PERFORM SERVICES ONLY	X
(1) Sensitive Compartmented Information (SCI)		X	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
(2) Non-SCI		X	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	
f. SPECIAL ACCESS INFORMATION		X	h. REQUIRE A COMSEC ACCOUNT	
g. NATO INFORMATION		X	i. HAVE TEMPEST REQUIREMENTS	
h. FOREIGN GOVERNMENT INFORMATION		X	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	
i. LIMITED DISSEMINATION INFORMATION		X	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	
j. FOR OFFICIAL USE ONLY INFORMATION		X	l. OTHER <i>(Specify)</i>	
k. OTHER <i>(Specify)</i>		X		