

CONTRACT NAS1-98110

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

- Cost and Fee
- Estimated Cost and Maximum Incentive Fee
- Estimated Cost and Incentive Fee for Option Periods
- Advance Agreement on Indirect Rates

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).

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.

AWARD/CONTRACT	1 THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ▶	RATING DO-C9	PAGE OF PAGE(S) 1 68
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2 CONTRACT NO (Proc Inst Ident) NO NAS1-98110	3 EFFECTIVE DATE 5/1/98	4 REQUISITION/PURCHASE REQUEST/PROJECT NO GJE 8762
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5 ISSUED BY National Aeronautics and Space Administration Langley Research Center Hampton, VA 23681-2199	6 ADMINISTERED BY (if other than item 5) Delegation being made Via NF 1430 Critically Designator C
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7 NAME AND ADDRESS OF CONTRACTOR (No. street, city, county, State and ZIP code) Raytheon Support Services Company 5740 E. Bayside Road Virginia Beach, VA 23455	8 DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)
	9 DISCOUNT FOR PROMPT PAYMENT NONE
	10 SUBMIT INVOICES (4 copies unless other-wise specified) TO THE ADDRESS SHOWN IN: G.3

11 SHIP TO/MARK FOR See F.2 and F.3.	CODE	FACILITY CODE	12. PAYMENT WILL BE MADE BY: Financial Management Division, M/S 175 NASA, Langley Research Center Hampton, VA 23681-2199
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13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()	14 ACCOUNTING AND APPROPRIATION DATA GGI.2090; C200202; \$10,850; Complete GJE.8762; M2079; \$200,000; Partial
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15A. ITEM NO.	15B. SUPPLIES/SERVICES	15C. QTY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
	Electronics Fabrication and Electronic Equipment Support Services	Base	Cost	Fee	
		Option 1	\$	\$	\$ 2,205,167
		Option 2	\$	\$	\$ 2,183,960
		Option 3	\$	\$	\$ 2,190,076
		Option 4	\$	\$	\$ 2,197,609
		Total	\$	\$	\$ 2,207,935
15G. TOTAL AMOUNT OF CONTRACT					\$10,984,747

(v)	SEC	DESCRIPTION	PAGE(S)	(v)	SEC	DESCRIPTION	PAGE(S)
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X	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS			
X	C	DESCRIPTIONS/SPECS./WORK STATEMENTS	3	X	J	LIST OF ATTACHMENTS	22
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE

17. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return 3 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 (s) 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.
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19A. NAME AND TITLE OF SIGNER (Type or print) BY	20A. NAME OF CONTRACTING OFFICER ROSEMARY C. FROELICH
19B. NAME OF CONTRACTOR BY <i>(Signature of person authorized to sign)</i>	20B. UNITED STATES OF AMERICA ORIGINAL SIGNED BY <i>(Signature of Contracting Officer)</i>
19C. DATE SIGNED	20C. DATE SIGNED APR 16 1998

PART I - THE SCHEDULE

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 SUPPLIES AND/OR SERVICES TO BE FURNISHED (LaRC 52.211-90) (AUG 1997)

A. The Contractor shall provide all resources (except as may be expressly stated in this contract as furnished by the Government) necessary to furnish the Description/Specifications/Work Statement in Section C. The Statement of Work covers the general requirements for Contract Line Item 1 (CLIN 1), Electronics Fabrication and CLIN 2, Electronic Equipment Support.


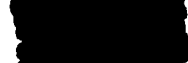
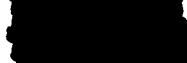


B. The requirement identified in CLIN 1 (Tasks 1.1-4) will be ordered through the issuance of individually priced Government authorized Work Requests. The following are the applicable labor categories and associated fully burdened fixed hourly rates (exclusive of fee and material costs) for regular time and overtime to be used in issuing Work Requests. These labor categories and rates will be utilized by the Government to establish cost standards for comparison purposes in calculating the Incentive Fee.

	<u>Fully Burdened Rate Per Hour</u>	<u>Fully Burdened Overtime Rate Per Labor Hour</u>
Engineering Technician II (CLIN 1)	\$29.72	\$36.23
Engineering Technician I (CLIN 1)	\$28.21	\$34.16

C. The requirement identified in CLIN 2 will be ongoing and shall begin on the effective date of the contract and continue without interruption through the period of performance of the contract. The CLIN 2 estimated cost identified in Section B.2 will be the cost standard for comparison purposes in calculating the Incentive Fee.

B.2 ESTIMATED COST AND MAXIMUM INCENTIVE FEE

The estimated cost of this contract is \$2,080,346. The incentive fee is \$124,821. The total estimated cost and maximum incentive fee are \$2,205,167.

	<u>Est. Cost</u>	<u>Max. Available Incentive Fee</u>	<u>Total Est. Cost and Max. Incentive Fee</u>
CLIN 1			\$2,021,310
CLIN 2			<u>183,857</u>
Total			\$2,205,167

B.3 INCENTIVE FEE

The Government shall evaluate the Contractor's performance at three (3) month intervals from the date of contract award in accordance with Attachment B, Surveillance and Cost Plus Incentive Fee Plan, of the contract. The Contractor's reporting requirements for this evaluation are specified therein. The quality, schedule and cost metrics that the Contractor will be measured against in determining earned incentive fee are defined in the Statement of Work.

B.4 CONTRACT FUNDING (NASA 1852.232-81) (JUN 1990)

(a) For purposes of payment of cost, exclusive of fee, in accordance with the Limitation of Funds clause, the total amount allotted by the Government to this contract is \$210,850. This allotment is for Electronics Fabrication and Electronic Equipment Support and covers the following estimated period of performance: May 1, 1998 through June 1, 1998.

(b) An additional amount of \$0 is obligated under this contract for payment of fee.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 STATEMENT OF WORK - ELECTRONICS FABRICATION AND ELECTRONIC EQUIPMENT CONTRACT

Introduction

This Statement of Work (SOW) covers the general requirements for Electronics Fabrication and Electronic Equipment support at the Langley Research Center (LaRC). The majority of the effort shall be performed in a Contractor-furnished facility. Some work will be performed at LaRC, primarily in those instances where equipment or other items to be worked on, or with, are located at LaRC, and other sites as designated by work requests. In responding to LaRC work requests, the Contractor must meet strict research schedules. The Contractor shall respond to LaRC emergency requirements in all statement of work areas on a 24 hours, 7 days a week basis. The Contractor shall respond to LaRC emergency requirements within 1-hour after receiving notification of the request from the Government. "Response" is defined as having personnel working on-site at the NASA LaRC facility. The Contractor shall furnish all personnel, services, materials, equipment, vehicles, and facilities (other than those provided by the Government) necessary and/or incidental to the performance of the functional work areas identified below.

Quality Assurance

1. The Contractor shall utilize a quality assurance program that is in compliance with the requirements of the current version of the International Organization for Standardization's ISO 9002 Standard Series or the American National Standards Institute/American Society for Quality Control's Q9002 Series, or equivalent.

2. In performing the prescribed electronics fabrication services and quality assurance inspections, the Contractor shall comply with the quality provisions set forth in NASA Assurance Standards Publications NAS/NHB 5300.4 Series (latest version) or NASA approved standard and as specified in work requests. Personnel qualifications and certifications shall be in accordance with the training and certification requirements as set forth by the NASA Assurance Standards Publications.

3. The following summarizes the quality assurance inspection process under CLIN 1, for Tasks 1.1-3 of this Statement of Work. Additional/special inspection instructions may be given in individual work requests. The Contractor shall inspect all work prior to delivery to insure compliance with the NAS/NHB 5300.4 series and/or work request. A written inspection report shall be delivered with the completed item on a Quality Assurance Control Card (Form FD-EFDB N-969) along with a Shipping Receipt (Form FD-686). A NASA quality assurance inspector or other authorized NASA representative (as designated on work request) will inspect the completed deliverable and either accept or reject the item. Completed items/repairs delivered under CLIN 1, Task 1.4 and CLIN 2 will be delivered to the NASA requester for final inspection and acceptance. All rejected items will be documented and returned to the Contractor for rework.

CLIN 1.0 ELECTRONICS FABRICATION SUPPORT

The Contractor shall provide technical support to fabricate research-oriented electronics circuitry. This includes circuit assemblies for ground support, aircraft, spaceflight, laboratory, and research test facility instrumentation requirements. Work shall encompass four (4) functional work areas: general, aircraft, and micro electronics fabrication, and special fabrication processes as described herein.

The Contractor shall work from work requests which may include schematics, assembly drawings, sketches, wiring diagrams, and/or written narratives describing the work to be performed along with any special fabrication operations, procedures, and techniques. Electronics fabrication support shall include but not be limited to the following services as directed by work requests:

- Layout of parts, wiring, fabrication, installation, functional checkout, and modification of electronics circuitry
- Installation of parts/components (including both surface mount and through hole devices) such as resistors, capacitors, coils, transistors, integrated circuits, etc. in printed circuit board assemblies
- Routing and soldering of wires to form circuitry
- Soldering of cable wires to specified terminals to connect circuits and subassemblies
- Machining and painting of miscellaneous hardware such as panels, chassis, and cabinets
- Quality assurance functions including checking continuity of circuits using circuit analyzers; performing quality assurance inspection of components, assemblies, and completed instrumentation systems; analyzing problems encountered and documenting all inspections and tests performed; recording of nonconformances, rejections, reworks, and repairs; integrating Government-provided subassembly drawings/specifications to form detailed schematic of completed task; and assuring compliance of end items with the NASA Assurance Standards Publications.

1.1 General Electronics Fabrication - The Contractor shall provide electronics fabrication support to produce general electronics circuitry and hardware. Requirements range from fabrication and assembly of printed circuit boards, cable assemblies, wiring harnesses, and electronics chassis; to installation and wiring of complete research test facilities; to fabrication and assembly of electronics hardware components and subsystems for Center aeronautical or aerospace research projects. Approximately 70 percent of the work will be performed in a Contractor-furnished facility; approximately 30 percent of the work will be performed at various LaRC work sites as required.

1.2 Aircraft Electronics Fabrication - The Contractor shall operate a Government-furnished electronics fabrication shop in LaRC's Building 1244 Hangar and shall provide electronics fabrication support to produce aircraft electronics circuitry such as data acquisition instrumentation, telemetry systems, electronic display units, and a variety of ground support equipment for LaRC's flight research aircraft. Work will be performed in LaRC's Building 1244 Hangar and on-board the various research aircraft.

1.3 Microelectronics Fabrication - The Contractor shall provide electronics fabrication support to produce microelectronics circuitry. This includes the performance of technical functions necessary for microelectronic circuit and sensor fabrication such as deposition of materials, photochemical patterning of circuit elements and interconnections, mounting of microminiature components, etc. The specialized microelectronics facilities and equipment necessary for performance of this work are located in LaRC's Building 1238 Microelectronics Laboratory and shall be provided for use by the Contractor.

1.4 Special Fabrication Processes - The Contractor shall perform a variety of special fabrication processes including but not limited to the following:

- Photoplotting, photographing, and processing of printed circuit board electronic artwork data files. The Contractor shall utilize these processes to produce printed circuit board artwork film plots. (In producing the required film plots, the Contractor shall electronically interface with the Government in an automated fashion utilizing compatible standard electronic file formats.)
- Printed circuit board fabrication. (The Government may issue up to ten (10) work requests per contract year for fabrication of printed circuit boards from Government-provided schematics/artwork.)
- Graphics-related processes including computerized engraving and vinyl cutting; metal-photo imaging; and graphics artwork layout, screen-printing, decaling, and transfer lettering. The Contractor shall utilize these processes to: fabricate and install miscellaneous signage such as building/room identification signs, nameplates, tags, and other placards; produce highly-durable plaques, plates, and panels; and label /identify instrumentation panels, chassis, cabinets, printed circuit boards, etc.
- Coatings application processes including conformal coating, staking, encapsulating and other processes related to the application of protective coatings to printed circuit boards and electronic assemblies.

Approximately 95 percent of the work involving special fabrication processes will be performed in a Contractor-furnished facility; approximately 5 percent of the work will be performed at various LaRC work sites as required.

1.5 Metrics - The Quality and Schedule metrics are applicable to Tasks 1.1-3. Task 1.4 may be measured against Quality and/or Schedule Metrics on a case-by-case basis and will be noted accordingly on the work request. The cost metric is applicable to all tasks under CLIN 1.

- Quality -- Conformance with NASA Assurance Standards Publications NAS/NHB 5300.4 Series is required. All specifications (assembly drawings, wiring diagrams, sketches, special fabrication procedures and techniques etc.) identified in individual work requests must be met. "Quality Sensitive" represents those work requests that a quality error could impact overall project objective(s) or milestones.
- Schedule -- A specific completion date will be defined for each work request. Work requests designated with a "Must Hold" represents those work requests that could severely impact overall project objective(s) or milestones if the delivery date is not met. A "Must Hold" work request will be considered late if the article is delivered to the NASA Quality Office or other designated delivery site, or is available for customer pickup after the close of business on the required delivery date.
- Cost -- The negotiated cost for each work request established utilizing the contract hourly labor rate per labor category will serve as the cost standard.

CLIN 2.0 ELECTRONIC EQUIPMENT SUPPORT

2.1 This requirement is on going and shall begin on the effective date of the contract and continue without interruption through the period of performance of the contract. The Contractor shall provide electronic equipment support to include the installation, repair, maintenance, assembly, modification, setup, operation, and testing of a variety of Government-owned Computer Numerical Control (CNC) and conventional machinery and equipment including but not limited to the equipment listed in Exhibit H. Additionally, the Contractor shall provide annual calibration of selected machine tool equipment including but not limited to the equipment listed in Exhibit H, List 2. The overall electronic equipment effort

supports LaRC's Fabrication Division (FD). The reliable operation of CNC and conventional machinery and equipment is critical to the mission of the FD. The equipment to be serviced are located in three primary FD facilities: Building 1225, Advanced Machining Development Lab; Building 1283B, Engineering and Fabrication Lab; and Building 1238B, Composite and Models Development Lab. Ninety percent of the tasks are 10 hours or less in duration.

2.2 Metrics

- Quality--Completion of work without Contractor error. A task completed with a Contractor error is identified as a "Call Back". "Call Backs" are defined as a request to re-repair equipment that after being repaired by the Contractor, has subsequently failed/malfunctioned as a result of an unsatisfactory initial repair by the Contractor.
- Schedule--Equipment "Down Time" shall serve as a measure of the timeliness of the Contractor's efforts in effecting repairs. "Down Time" is the period of time a machine is out of service while awaiting/undergoing repairs and shall include the period of time from receipt of repair request to completion of repair and restoration of machine to service.
- Cost--The negotiated cost for CLIN 2 (See B.2) broken out on a quarterly basis will serve as the cost standard.

SECTION E - INSPECTION AND ACCEPTANCE

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

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

SECTION F - DELIVERIES OR PERFORMANCE

F.1 PERIOD OF PERFORMANCE (LaRC 52.211-91) (AUG 1997)

The period of performance of this contract shall be 12 months from the effective date of the contract.

F.2 PLACE OF DELIVERY (LaRC 52.211-92) (OCT 1992)

Delivery shall be f.o.b. destination:

As specified in work requests.

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

The place(s) of performance shall be at the Contractor's facility, NASA, Langley Research Center, Hampton, Virginia; and other sites as may be designated by work requests.

SECTION G - CONTRACT ADMINISTRATION DATA

G.1 TECHNICAL DIRECTION (NASA 1852.242-70) (SEP 1993)

- (a) Performance of the work under this contract is subject to the written technical direction of the Contracting Officer's Technical Representative (COTR), who shall be specifically appointed by the Contracting Officer in writing in accordance with NASA FAR Supplement 18-42.270. "Technical direction" means a directive to the Contractor that approves approaches, solutions, designs, or refinements; fills in details or otherwise completes the general description of work or documentation items; shifts emphasis among work areas or tasks; or furnishes similar instruction to the Contractor. Technical direction includes requiring studies and pursuit of certain lines of inquiry regarding matters within the general tasks and requirements in Section C of this contract.
- (b) The COTR does not have the authority to, and shall not, issue any instructions purporting to be technical direction that -
- (1) Constitutes an assignment of additional work outside the statement of work;
 - (2) Constitutes a change as defined in the changes clause;
 - (3) In any manner causes an increase or decrease in the total estimated contract cost, the fixed fee (if any), or the time required for contract performance;
 - (4) Changes any of the expressed terms, conditions, or specifications of the contract; or
 - (5) Interferes with the Contractor's rights to perform the terms and conditions of the contract.
- (c) All technical direction shall be issued in writing by the COTR.
- (d) The Contractor shall proceed promptly with the performance of technical direction duly issued by the COTR in the manner prescribed by this clause and within the COTR's authority. If, in the Contractor's opinion, any instructions or direction by the COTR falls within any of the categories defined in paragraph (b) above, the Contractor shall not proceed but shall notify the Contracting Officer in writing within 5 working days after receiving it and shall request the Contracting Officer to take action as described in this clause. Upon receiving this notification, the Contracting Officer shall either issue an appropriate contract modification within a reasonable time or advise the Contractor in writing within 30 days that the instruction or direction is -
- (1) Rescinded in its entirety; or
 - (2) Within the requirements of the contract and does not constitute a change under the changes clause of the contract and that the Contractor should proceed promptly its performance.
- (e) A failure of the Contractor and Contracting Officer to agree that the instruction or direction is both within the requirements of the contract and does not constitute a change under the changes clause, or a failure to agree upon the contract action to be taken with respect to the instruction or direction shall be subject to the Disputes clause of this contract.
- (f) Any action(s) taken by the Contractor in response to any direction given by any person other than the Contracting Officer or the COTR shall be at the Contractor's risk.

G.2 NASA CONTRACTOR FINANCIAL MANAGEMENT REPORTING (NASA 1852.242-73) (JUL 1997)

- (a) The Contractor shall submit NASA Contractor Financial Management Reports on NASA Forms 533 in accordance with the instructions in NASA Policy Guidance (NPG) 9501.2, NASA Contractor Financial Management Reporting, and on the reverse side of the forms, as supplemented in the Schedule of this contract. The detailed reporting categories to be used, which shall correlate with technical and schedule reporting, shall be set forth in the Schedule. Contractor implementation of reporting requirements under this clause shall include NASA approval of the definitions of the content of each reporting category and give due regard to the Contractor's established financial management information system.
- (b) Lower level detail used by the Contractor for its own management purposes to validate information provided to NASA shall be compatible with NASA requirements.
- (c) Reports shall be submitted in the number of copies, at the time, and in the manner set forth in the Schedule or as designated in writing by the Contracting Officer. Upon completion and acceptance by NASA of all contract line items, the Contracting Officer may direct the Contractor to submit Form 533

reports on a quarterly basis only. report only when changes in actual cost incur, or suspend reporting altogether.

(d) The Contractor shall ensure that its Form 533 reports include accurate subcontractor cost data, in the proper reporting categories, for the reporting period.

(e) If during the performance of this contract NASA requires a change in the information or reporting requirements specified in the Schedule, or as provided for in Paragraph (a) or (c) of this clause, the Contracting Officer shall effect that change in accordance with the Changes clause of this contract.

G.3 SUBMISSION OF VOUCHERS FOR PAYMENT (NASA 1852.216-87) (DEC 1988)

(a) Public vouchers for payment of costs shall include a reference to this contract NAS1-98110, your Taxpayer Identification Number and be forwarded thru:

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

This is the designated billing office for cost and fee vouchers for purposes of the Prompt Payment clause of this contract. Payments of cost will be made in monthly installments. Cost and fee vouchers are to be submitted separately.

Cost vouchers shall be submitted through the delegated Government Audit Agency identified as follows, with a copy to the delegated Administrative Contracting Officer:

DCAA, Raytheon Service Company
2 Wayside Road
Berlington, MA 01803

(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

(c) Public vouchers for payment of fee shall be prepared similarly and be forwarded thru [3] to:

NASA Langley Research Center
Attn: Contracting Officer, Mail Stop 126
Hampton, VA 23681-0001

(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.4 WORK REQUESTS

A. The work to be performed under CLIN1, Electronics Fabrication Support of Section C, Description/ Specifications/Work Statement, will be more specifically directed by means of written Work Requests issued by the Contracting Officer (CO), Contracting Officer's Technical Representative (COTR) or Authorized Government Representative and will contain the following information:

1. Date and Work Request Number
2. Special Designations i.e. Quality Sensitive, Must Hold
3. Description of work, specifications and/or end item
4. Name of NASA originator
5. Quantity
6. Required Schedule
7. Final Cost Estimate
8. Applicable special instructions i.e. Delivery Site, Required Quality Assurance Inspection

B. A complete work package consisting of the items identified in paragraph A above will be submitted to the Contractor for review. The CO, COTR or authorized representative will negotiate any necessary changes with the Contractor. Once mutual agreement is made on the conditions of the work package, an official work request will be issued to the Contractor on a Form FD-EFDB N-1395 or equivalent. The final cost estimate specified in the work request will serve as the cost standard for that work. If, after the Contractor has started the work it becomes necessary for the Government to make technical changes that affect the overall scope of the work request, the cost estimate and/or schedule shall be renegotiated to reflect the change in scope. The renegotiated cost estimate and/or schedule shall become the new standard for that work. The quality, schedule and cost metrics are addressed in the Statement of Work and work requests as applicable. The Contractor shall acknowledge receipt and acceptance of the work request by a signed Acknowledgment/Acceptance form or equivalent and return it to the COTR.

C. The Contractor shall respond within one hour of notification, for emergency requirements. The Contractor shall designate a primary individual point of contact that can be notified of emergency requirements 24 hours per day. The Contractor shall accept verbal orders of emergency services from the COTR or authorized representative. Written directions through a work request, following the above process in Paragraph B, will be provided within 2 working days.

D. The Contractor shall furnish a control and reporting system capable of accurately maintaining data required for the submission of reporting requirements identified in Exhibits A and B of the contract.

G.5 LIST OF GOVERNMENT-FURNISHED PROPERTY (NASA 1852.245-76) (OCT 1988)

For the performance of work under this contract, the Government will make available Government property identified in Exhibit G 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 52.245-5 Government Property clause of this contract, the Contractor is accountable for the identified property.

G.6 LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (NASA 1852.245-77) (JUL 1997)

In accordance with the clause at 1852.245-71, Installation-Accountable Government Property, the Contractor is authorized use of the types of property and services listed below, to the extent they are

available, in the performance of this contract within the physical borders of the installation which may include buildings and space owned or directly leased by NASA in close proximity to the installation, if so designated by the Contracting Officer.

(a) Office space, work area space, and utilities. Government telephones are available for official purposes only.

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

(1) Equipment to be made available is listed in Exhibit F. The Government retains accountability for this property under the clause at 1852.245-71, Installation-Accountable Government Property, regardless of its authorized location.

(2) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records as required by the clause at 1852.245-71, Installation-Accountable Government Property.

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

(4) All equipment necessary to perform in the areas of Aircraft Electronics Fabrication and Microelectron Fabrication.

(c) General (excluding office supplies) and electronic supplies from store stock.

(d) Publications and blank forms stocked by the installation.

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

(f) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty.

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

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

(i) 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.

(j) The user responsibilities of the Contractor are defined in paragraph (a) of the clause at 1852.245-71, Installation-Accountable Government Property.

G.7 PROVIDING FACILITIES TO CONTRACTORS (LaRC 52.245-90) (AUG 1997)

A. In accordance with FAR 45.302-1, it is policy of the Government that Contractors shall furnish all facilities required for performing Government contracts. "Facilities" include real property and plant equipment including personal property such as general purpose off-the-shelf equipment, machine tools, test equipment, furniture and vehicles. "Facilities" do not include material, special test equipment, special tooling or agency-peculiar property.

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

C. However, the Government will provide EXISTING facilities as listed in G.5 and 6 and Exhibits F and G. Any of these existing facilities that reach the end of their useful life during the contract period, or which are beyond economical repair, shall be replaced by the Contractor, if the facilities are still needed for contract performance.

D. Notwithstanding the "Allowable Cost and Payment" clause of this contract, cost of facilities are not an allowable cost except when charged to this contract in accordance with your approved accounting system.

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

A. Reassignment--After receipt, inspection, and acceptance by the Government of all required articles and/or services, and resolution of any pending issues raised during the Period of Performance, this contract will be reassigned to the NASA Langley Research Center Contracting Officer for Contract Closeout. All transactions subsequent to the physical completion of the contract should, therefore, be addressed to the said Contracting Officer at NASA Langley Research Center, Mail Stop 126, who may be reached by telephone at (757) 864-7765.

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 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>
Engineering Technician II (CLIN 1)	\$14.85
Engineering Technician I (CLIN 1)	\$13.45
Engineering Technician III (CLIN 2)	\$16.36

Engineering Technician II (CLIN 2)

\$14.85

FRINGE BENEFITS

- Annual Leave - Receives 13 days paid leave for service up to 3 years; 20 days for 3 to 15 years service; and 26 days for 15 years service or over.
- Sick Leave - Receives 13 days paid leave per year.
- Holidays - Receives 10 paid holidays per year.
- Health Insurance - Government pays up to 60% of health insurance.
- Group Life Insurance - Government pays two-thirds of life insurance rate premiums.
- Retirement - The Government provides three retirement plans identified as the Civil Service Retirement System (CSRS), the Federal Employees Retirement System (FERS), and the CSRS Offset. Under the CSRS, the Government contributes 7% of the employees' base pay towards the retirement benefit and 1.45% towards Medicare. Under the FERS, the Government contributes 11.4% of the employees' base pay towards a basic benefit plan, 6.2% to Social Security, 1.45% towards Medicare, and 1% (plus matching contributions of up to 4% of basic pay, depending on employees' contributions) to a thrift savings plan. Under the CSRS Offset, the Government contributes 0.8% of the employees' base pay towards the retirement benefit, 6.2% to Social Security, and 1.45% towards Medicare.

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

H.2 OPTIONS

Priced Options/Extended Term

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

<u>Item</u>	<u>First Option Period</u>	<u>Second Option Period</u>	<u>Third Option Period</u>	<u>Fourth Option Period</u>
Period of Performance (Ref. F.1)	12 months	12 months	12 months	12 months
Fully Burdened Rate Per Hour (Ref. B.1.B)				
Engineering Technician II (CLIN 1)	\$29.39	\$29.47	\$29.57	\$29.72
Engineering Technician I (CLIN 1)	\$27.85	\$27.93	\$28.03	\$28.17
Overtime Fully Burdened Rate Per Hour (Ref. B.1.B)				
Engineering Technician II (CLIN 1)	\$35.86	\$35.94	\$36.04	\$36.19
Engineering Technician I (CLIN 1)	\$33.79	\$33.87	\$33.97	\$34.12

<u>Item</u>	<u>First Option Period</u>	<u>Second Option Period</u>	<u>Third Option Period</u>	<u>Fourth Option Period</u>
Estimated Cost (Ref. B.2)	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]
CLIN 1	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]
CLIN 2	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]
Incentive Fee (Ref. B.2)	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]
CLIN 1	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]
CLIN 2	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]	\$ [REDACTED]

H.3 CONTRACTOR EMPLOYEE'S SECURITY CLEARANCE (LaRC 52.204-90) (OCT 1996)

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

H.4 SECURITY PROGRAM/FOREIGN NATIONAL EMPLOYEE INVESTIGATIVE REQUIREMENTS (LaRC 52.204-91) (AUG 1997)

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

H.5 WORK SCHEDULE--ON-SITE ONLY (LaRC 52.211-103) (JUL 1991)

In order that the necessary and proper inspection of the Contractor's work may be effectively accomplished, and to assure the availability of required Government interface, the Contractor shall schedule work performance hereunder so as to be compatible with the established workweek and hours of work observed by the Government organization having cognizance over the work being performed, which is 6:30 a.m. to 3:00 p.m., Monday through Friday.

H.6 OBSERVATION OF REGULATIONS AND IDENTIFICATION OF CONTRACTOR'S EMPLOYEES (LaRC 52.211-104) (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.7 INCORPORATION OF SECTION K OF THE PROPOSAL BY REFERENCE (LaRC 52.215-107) (MAR 1989)

Pursuant to FAR 15.406-1(b), the completed Section K of the proposal dated January 16, 1998, is hereby incorporated herein by reference.

H.8 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.9 ADVANCE AGREEMENT ON INDIRECT RATE(S) (LaRC 52.231-90) (JUN 1988)

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

<u>Indirect Cost Pool</u>	<u>Ceiling Percentage</u>	<u>Allocation Base</u>
Labor Overhead - 1998 Cal. Year	[REDACTED] %	Direct Labor
Labor Overhead - 1999	[REDACTED] %	
Labor Overhead - 2000	[REDACTED] %	
Labor Overhead - 2001	[REDACTED] %	
Labor Overhead - 2002	[REDACTED] %	
Labor Overhead - 2003	[REDACTED] %	
General and Administrative - 1998	[REDACTED] %	Total Costs (except Material, Subcontracts, and Interdivisional Work Requests)
General and Administrative - 1999	[REDACTED] %	
General and Administrative - 2000	[REDACTED] %	
General and Administrative - 2001	[REDACTED] %	
General and Administrative - 2002	[REDACTED] %	
General and Administrative - 2003	[REDACTED] %	

B. The above rate ceilings are predicated upon the bases listed above and the accounting practices and accounting system in effect on January 16, 1998. 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.

C. The limitation(s) on indirect cost rates set forth above consider all known indirect costs that will occur during the term of this contract. However, after contract award, should there be changes to statutes, court decisions and/or written ruling or regulation by the Internal Revenue Service or any other taxing authority, or wage determination and/or regulations issued by the Department of Labor pursuant to the provisions of the Services Contract Act of 1965, as amended, that affect the Contractor's indirect costs, the above limitation(s) on indirect cost rates may be adjusted by the Contracting Officer to the extent that such changes cause an increase or a decrease to the Contractor's indirect costs.

H.10 QUALITY MANAGEMENT SYSTEM REQUIREMENTS (ISO-9000)

No later than 12 months after award of the contract, the Contractor shall be certified by a third-party registrar as compliant with the current version of the International Organization for Standardization's "ISO 9002" Standard Series or the American National Standards Institute/American Society for Quality Control's "Q9002 Series" and associated documentation. The Contractor shall maintain their registration during the contract term.

H.11 COMPUTER SOFTWARE AND SYSTEMS

The Contractor warrants that the items or services acquired under this contract are required to include accurate processing of the date and date-related data including, but not limited to, calculating, comparing, sequencing, and the manipulation of data with dates prior to, through, and beyond January 1, 2000. This capability must be included in all hardware and software products delivered under this contract, or used to perform services required by the contract, individually and in combination, and shall be transparent to the user. Hardware and software products provided under this contract, and used to perform services required by the contract, shall individually, and in combination, be able to successfully transition into the Year 2000 with the correct system date, including leap year calculations, without human intervention. Such products shall also provide correct results when moving forward and backward in time across the Year 2000 and subsequent years.

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 (OCT 1995)
52.203-3	Gratuities (APR 1984)
52.203-5	Covenant Against Contingent Fees (APR 1984)
52.203-6	Restrictions on Subcontractor Sales to the Government (JUL 1995)

52.203-7 Anti-Kickback Procedures (JUL 1995)
52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (JAN 1997)
52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (JAN 1997)
52.203-12 Limitation on Payments to Influence Certain Federal Transactions (JUN 1997)
52.204-2 Security Requirements (AUG 1996)
52.204-4 Printing/Copying Double-Sided on Recycled Paper (JUN 1996)
52.209-6 Protecting the Government's Interest when Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JUL 1995)
52.211-5 Material Requirements (OCT 1997)
52.211-7 Other Than New Material, Residual Inventory, and Former Government Surplus Property (MAY 1995)
52.211-15 Defense Priority and Allocation Requirements (OCT 1997)
52.215-2 Audit and Records—Negotiation (OCT 1997)
52.215-8 Order of Precedence (OCT 1997)
52.215-11 Price Reduction for Defective Cost or Pricing Data—Modifications (OCT 1997)
52.215-13 Subcontractor Cost or Pricing Data—Modifications (OCT 1997)
52.215-14 Integrity of Unit Prices (OCT 1997)
52.215-15 Termination of Defined Benefit Pension Plans (OCT 1997)
52.215-17 Waiver of Facilities Capital Cost of Money (OCT 1997)
52.215-18 Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions (OCT 1997)
52.215-19 Notification of Ownership Changes (OCT 1997)
52.215-21 Requirements for Cost and Pricing Data or Information Other Than Cost or Pricing Data - Modifications (OCT 1997)
52.216-7 Allowable Cost and Payment (MAR 1997)
52.219-8 Utilization of Small, Small Disadvantaged, and Women-Owned Small Business Concerns (JUN 1997)
52.219-9 Small, Small Disadvantaged, and Women-Owned Small Business Subcontracting Plan (AUG 1996) Alternate II (MAR 1996)
52.219-16 Liquidated Damages - Subcontracting Plan (OCT 1995)
52.222-1 Notice to the Government of Labor Disputes (FEB 1997)
52.222-3 Convict Labor (AUG 1996)
52.222-4 Contract Work Hours and Safety Standards Act—Overtime Compensation (JUL 1995)
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)
52.222-37 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)
52.223-2 Clean Air and Water (APR 1984)
52.223-3 Hazardous Material Identification and Material Safety Data (Jan 1997) Alternate I (Jul 1995)
52.223-5 Pollution Prevention and Right-To-Know Information (MAR 1997)
52.223-6 Drug-Free Workplace (JAN 1997)
52.223-14 Toxic Chemical Release Reporting (OCT 1996)
52.225-3 Buy American Act - Supplies (JAN 1994)
52.225-11 Restrictions on Certain Foreign Purchases (OCT 1996)
52.225-19 European Union Sanction For Services (JAN 1996)
52.227-1 Authorization and Consent (JUL 1995)
52.227-2 Notice and Assistance Regarding Patent and Copyright Infringement (AUG 1996)

52.227-11	Patent Rights--Retention by the Contractor (Short Form) (JUN 1989)--as modified by NASA FAR Supplement 1852.227-11
52.227-14	Rights in Data--General (JUN 1987)--as modified by NASA FAR Supplement 1852.227-14
52.228-7	Insurance—Liability to Third Persons (MAR 1996)
52.230-2	Cost Accounting Standards (APR 1996)
52.230-6	Administration of Cost Accounting Standards (APR 1996)
52.232-9	Limitation on Withholding of Payments (APR 1984)
52.232-17	Interest (JUN 1996)
52.232-22	Limitation of Funds (APR 1984)
52.232-23	Assignment of Claims (JAN 1986)
52.232-25	Prompt Payment (JUN 1997)
52.232-33	Mandatory Information for Electronic Funds Transfer Payment (AUG 1996)
52.233-1	Disputes (OCT 1995)--Alternate I (DEC 1991)
52.233-3	Protest After Award (AUG 1996)--Alternate I (JUN 1985)
52.237-2	Protection of Government Buildings, Equipment and Vegetation (APR 1984)
52.237-3	Continuity of Services (JAN 1991)
52.239-1	Privacy or Security Safeguards (AUG 1996)
52.242-1	Notice of Intent to Disallow Costs (APR 1984)
52.242-3	Penalties for Unallowable Costs (OCT 1995)
52.242-4	Certification of Final Indirect Costs (JAN 1997)
52.242-13	Bankruptcy (JUL 1995)
52.242-15	Stop-Work Order (AUG 1989)--Alternate I (APR 1984)
52.243-2	Changes--Cost-Reimbursement (AUG 1987)--Alternate II (APR 1984)
52.244-2	Subcontracts (Cost-Reimbursement and Letter Contracts) (FEB 1997)--Alternate I (AUG 1996)
52.244-5	Competition in Subcontracting (DEC 1996)
52.244-6	Subcontracts for Commercial Items and Commercial Components (OCT 1995)
52.245-5	Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts) (JAN 1986)(DEVIATION) (JUL 1995)
52.246-3	Inspection of Supplies--Cost-Reimbursement (APR 1984)
52.246-5	Inspection of Services--Cost-Reimbursement (APR 1984)
52.246-25	Limitation of Liability--Services (FEB 1997)
52.248-1	Value Engineering (MAR 1989)
52.249-6	Termination (Cost-Reimbursement) (SEP 1996)
52.249-14	Excusable Delays (APR 1984)
52.251-1	Government Supply Sources (APR 1984)
52.252-6	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>
1852.208-81	Restrictions on Printing and Duplicating (AUG 1993)
1852.216-89	Assignment and Release Forms (JUL 1997)
1852.219-74	Use of Rural Area Small Businesses (SEP 1990)
1852.219-75	Small, Small Disadvantaged, and Women-Owned Small Business Subcontracting Reporting (JUL 1997)
1852.219-76	NASA 8 Percent Goal (JUL 1997)
1852.223-70	Safety and Health (MAR 1997)
1852.223-74	Drug and Alcohol-Free Workforce (MAR 1996)
1852.228-75	Minimum Insurance Coverage (OCT 1988)
1852.237-70	Emergency Evacuation Procedures (DEC 1988)

1852.242-70	Technical Direction (SEP 1993)
1852.242-71	Travel Outside of the United States (DEC 1988)
1852.242-72	Observance of Legal Holidays (AUG 1992) — Alternate I (SEPT 1989) and Alternate II (SEP 1989)
1852.242-73	NASA Contractor Financial Management Reporting (JUL 1997)
1852.243-71	Shared Savings (MAR 1997)
1852.245-70	Contractor Requests for Government-Owned Equipment (JUL 1997)
1852.245-73	Financial Reporting of NASA Property in the Custody of Contractors (SEP 1996)

I.2 CLAUSES IN FULL TEXT

The clauses listed below follow in full text:

<u>CLAUSE NUMBER</u>	<u>TITLE AND DATE</u>
52.252-2	Clauses Incorporated by Reference (JUN 1988)
52.217-9	Option to Extend the Term of the Contract (MAR 1989)
52.222-2	Payment for Overtime Premiums (JUL 1990)
1852.204-75	Security Classification Requirements (SEP 1989)
1852.204-76	Security Requirements for Unclassified Automated Information Resources (SEP 1993)
1852.215-84	Ombudsman (OCT 1996)
1852.245-71	Installation-Accountable Government Property (JUL 1997)- Alternate I (MAR 1989)

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 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 period of performance.
- (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 60 months.

I.5 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.

I.6 SECURITY CLASSIFICATION REQUIREMENTS (NASA 1852.204-75) (SEP 1989)

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

I.7 SECURITY REQUIREMENTS FOR UNCLASSIFIED AUTOMATED INFORMATION RESOURCES (NASA 1852.204-76) (SEP 1993)

(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 initiate personnel screening checks and obtain user responsibility agreements, as required by this clause, for each Contractor employee requiring unescorted or unsupervised physical access or electronic access to the following limited or controlled areas, systems, programs and data:

Central Scientific Computing Complex (Building 1268)

(1) The Contractor shall submit a personnel security questionnaire (NASA Form 531, Name Check Request, for National Agency Check (NAC) investigations and Standard Form 85P, Questionnaire for Public Trust Positions, for specified sensitive positions) and a Fingerprint Card (FD-258 with NASA overprint in Origin Block) to the installation Security Officer for each Contractor employee who requires access. The required forms may be obtained from the installation security office. Employees may have finger-prints taken at the NASA Contract Badge and Pass Office, located at 1 Langley Boulevard (Building No. 1228), only between the hours of 6:30 a.m. and 4:30 p.m., Monday through Friday, or at any police department.

(i) Several months may be required for completion of complex personnel screening investigations. Background screening may not be required for employees with recent or current Federal Government investigations.

(ii) When employee access is necessary prior to completion of personnel screening, each Contractor employee requiring access may be considered for escorted access. The installation Security Officer will establish the eligibility of proposed escorts.

(2) The Contractor shall ensure that each Contractor employee requiring access executes any user responsibility agreements required by the Government prior to access. The Contractor shall provide signed copies of the agreements to the installation Security Officer for inclusion in the employee's security file. Unauthorized access is a violation of law and punishable under the provisions of 18 U.S.C. 1029, 18 U.S.C. 1030 and other applicable statutes.

(3) The Contractor shall notify the installation AIS Manager no later than the end of the day of the termination for cause of an authorized employee's access. The Contractor shall notify the COTR no later than 10 days after an authorized employee no longer requires access for any other type of termination. Verbal notifications shall be confirmed in writing within 30 days.

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

I.8 OMBUDSMAN (NASA 1852.215-84) (OCT 1996)

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

I.9 INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NASA 1852.245-71) (JUL 1997) ALTERNATE I (MAR 1989)

(a) The Government property described in the clause at 1852.245-77, List of Installation-Provided Property and Services, shall be made available to the contractor on a no-charge basis for use in performance of this contract. This property shall be utilized only within the physical confines of the NASA installation that provided the property. Under this clause, the Government retains accountability for, and title to, the property, and the contractor assumes the following user responsibilities: User responsibilities in accordance with NASA Handbook NHB 4200.1, NASA Equipment Management Manual.

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

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

(i) The contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area;

(ii) The contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area;

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

(iv) Contractor use of Government property at an off-site location and off-site subcontractor use require advance approval of the contracting officer and notification of the SEMO. The contractor shall assume accountability and financial reporting responsibility for such property. The

contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR Part 45.5 until its return to the installation.

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

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

PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

SECTION J - LIST OF ATTACHMENTS

- Exhibit A Contract Documentation Requirements, 6 pages
- Exhibit B Surveillance and Cost Plus Incentive Fee (CPIF) Plan, 5 pages
- Exhibit C Contract Security Classification Specification, DD Form 254, 2 pages
- Exhibit D Register of Wage Determination and Fringe Benefits, July 2, 1997, 10 pages
- Exhibit E Subcontracting Plan, 11 pages
- Exhibit F Installation-Accountable Government Property, 4 pages
- Exhibit G List of Government-Furnished Property, 6 pages
- Exhibit H Computer Numerical Control (CNC) and Conventional Machinery and Equipment,
4 pages
- Exhibit I Monthly Progress Report for Socioeconomic Goals (Sample), 1 page

EXHIBIT A - 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 Policy and Guidelines (NPG) 9501.2C, "NASA Contractor Financial Management Reportings," as further definitized below.

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

2. Columns 7.b. and d. shall be completed using the 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:

Labor Hours

- Direct:
 - CLIN 1 (ST)
 - CLIN 1 (OT)
 - CLIN 2 (ST)
 - CLIN 2 (OT)
- Subtotal:
- Additional Labor
- Total Direct Hours

Cost

- Direct:
 - CLIN 1 (ST)
 - CLIN 1 (OT)
 - CLIN 2 (ST)
 - CLIN 2 (OT)
- Subtotal
- Additional Labor
- Total Direct Labor
- OH
- OH Rate
- ODC's Company Specific
 - Subcontract
 - CLIN 1 OT Premium
 - CLIN 2 OT Premium
 - Facility
 - Other
- Total ODC's Company Specific
- ODC's Gov. Specific
 - CLIN 1 Material
 - CLIN 2 Material
 - CLIN 1 Travel
 - CLIN 2 Travel
- Total ODC Gov. Specific
- G&A
- G&A Rate
- Total Cost
- Incentive Fee
- Total CPIF

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

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. The initial 533Q shall be submitted within 10 operating days after award of the contract.

C. Financial Baseline Plan--A time-phased financial baseline plan, detailing by month how you plan to incur costs for the period, shall be submitted for the first 12-month interval of the total five year contract period. Financial baseline plans for each of the remaining 12-month intervals shall be submitted within 10 days of the anniversary of the effective date of this contract. Financial baseline plan revisions resulting from the exercise of priced option hours shall be submitted 10 days following the effective date of the option being exercised. This plan shall include the periods by the cost categories specified in Paragraph A.4 above. The total estimated cost and level of effort reflected in the baseline plans must equal the contract values for the total contract period. The Financial Baseline Plan will be revised each time a contract modification is executed which increases or decreases the contract estimated cost for a reason other than an overrun. The Financial Baseline Plan shall not be revised to include overrun costs.

D. Safety and Health Plan--Within 30 calendar days after the effective date of the contract, the Contractor shall submit a detailed safety and health plan showing how the Contractor intends to protect the life, health, and well being of NASA and Contractor employees as well as property and equipment. This plan, as approved by the Contracting Officer, should contain, as a minimum the following:

1. Points of Contact and Responsibility--Organizational flow chart and description of responsibilities of each employee in your organization for safety.

2. Employee Safety Training, Certification and Programs--Detailed information on type of training required, parties responsible for certification, and outline of applicable regulations. Detail company programs which emphasize personal safety and motivate employees to be safety conscious.

3. LaRC Safety Policies/Procedures--Recognition 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. Process for initiating changes/corrective actions in response to NASA LaRC Notice of Contractor Violation for unsafe operations, improper equipment, and other activities in noncompliance with construction and environmental regulations.

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. People with Disabilities--In accordance with the Americans with Disabilities Act, the plans should specify that prior to assigning a person with disabilities to this contract, the Contractor shall contact the Disability Program Manager at (804) 864-7718.

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

E. Quality Plan--Within 30 calendar days after the effective date of the contract, the Contractor shall submit a quality plan which addresses how the contract quality requirements will be met. The Plan and subsequent revisions will be reviewed and approved by the Contracting Officer or the designated representative.

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

G. Quarterly Equipment Report--The Contractor shall submit a Quarterly Government-furnished Equipment Report summarizing maintenance/calibration performed on the equipment. This report shall be submitted within 10 operating days following the end of the reporting period.

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

I. 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.

J. Property in the Custody of Contractors (NASA FORM 1018)--The Contractor shall submit the NASA Form 1018 no later than October 31 of each year in accordance with the Section I clause entitled "Financial Reporting of NASA Property in the Custody of Contractors."

K. Subcontracting Reports--The Contractor shall submit Standard Form 294, Subcontracting Report for Individual Contracts, Standard Form 295, Summary Subcontractor Report, and in accordance with the instructions on the reverse of the form.

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

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

L. Work Request Status Report - The Contractor shall submit a weekly status report illustrating the actual effort expended against all work requests. The report shall include but is not limited to information such as work requests status (active, hold or complete), cost, hours, description (title) and applicable work tracking numbers (i.e. work request, program, fabrication numbers etc.). Contractor may submit via electronic medium i.e. e-mail or via authorized access to reporting generation system.

M. Work Request Expenditure Report - The Contractor shall submit a weekly report identifying the actual effort expended against those work requests designated as applicable to this reporting requirement. The report shall identify the costs and hours expended in comparison to the parameters of the negotiated work request. Cost are to be broken out as labor and supply costs. Supply includes all material, components/parts and equipment which may be required to accomplish the work

request. Contractor may submit via electronic medium i.e. e-mail or via authorized access to reporting generation systems

N. Incentive Fee Report—The Contractor shall submit a Quarterly Incentive Fee Report within 10 operating days after the end of each quarter in accordance with Exhibit B, Surveillance and Cost Plus Incentive Fee (CPIF) Plan.

O. Federal Contractor Veterans Employment Report--In compliance with Clause 52.222-37, Employment Reports on Special Disabled Veterans and Veterans of the Vietnam Era, the Contractor shall submit the Federal Contractor Veterans Employment Reports (VETS-100) as required by this clause.

P. Evidence of Insurance--The Contractor shall submit evidence of the insurance coverage, required by the NASA Clause 1852.228-75 in Section I entitled "Minimum Insurance Coverage" (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.

Q. Virginia and Local Sales Taxes--In accordance with Section H.8, you are required to submit a copy of the letter sent to the Virginia Tax Commission and a copy of the subsequent response.

II. DOCUMENT DISTRIBUTION REQUIREMENTS

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

National Aeronautics and Space Administration
Langley Research Center
Attn: Contracting Officer, Mail Stop 126
Contract NAS1-97162
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 390

C--New Technology Representative, Mail Stop 212

D--Cost Accounting, Mail Stop 135

E--Safety Manager, Mail Stop 429

F--Industry Relations Office, Mail Stop 144

G--Programs and Resources Division, Mail Stop 104

H--Patent Counsel, Mail Stop 212

I--Industrial Property Office, Mail Stop 377

J--According to instructions on form

K--Small Business Specialist, Mail Stop 144

C. The following are the distribution requirements for reports and other documentation required with the numeral following the letter code specifying the number of copies to be provided:

<u>DOCUMENT</u>	<u>LETTER CODE AND DISTRIBUTION</u>
Financial Management Report (NASA Forms 533M and 533Q)	A-1, B-2, D-2, G-1
Financial Baseline Plan	A-1, B-2
Safety and Health Plan	A-1, B-1, E-1
Quality Plan	A-1, B-1, E-1
Monthly Progress Report	A-1, B-3
Quarterly Equipment Report	A-1, B-3
Quarterly Accident/Injury Report	A-1, B-1, E-1
Collective Bargaining Agreement	A-1, B-1, F-1
Property in the Custody of Contractors (NASA Form 1018)	A-1, B-1, I-4
Subcontracting Report for Individual Contracts (Standard Form 294)	A-1, K-1
Summary Subcontractor Report (Standard Form 295)	J
Monthly Progress Report for Socioeconomic Goals	A-1, K-1
Work Request Status Report	B-1
Work Request Expenditure Report	B-1
Incentive Fee Report	A-1, B-2
Federal Contractor Veterans Employment Report (VETS-100)	F-1
Virginia and Local Sales Tax Correspondence	A-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 B

SURVEILLANCE AND COST PLUS INCENTIVE FEE (CPIF) PLAN

1. Evaluation Criteria

The criteria for determining incentive fee earned for each quarter is defined below. The Contractor shall submit an incentive fee report on a quarterly basis in response to the defined criteria which, will be evaluated by the Contracting Officer (CO) and Contracting Officer's Technical Representative (COTR) and appointed representative(s). The report to be submitted is addressed in Section 3 of this plan. Ratings shall be applied based upon the details provided in Section 2 of this plan.

(a) Quality		50%
Electronics Fabrication (Tasks 1.1-3)	45%	
Electronic Equipment (CLIN 2.0)	5%	
(b) Schedule		30%
Electronics Fabrication (Tasks 1.1-3)	25%	
Electronic Equipment (CLIN 2.0)	5%	
(c) Cost Control		20%
Electronics Fabrication (CLIN 1.0)		
Electronic Equipment (CLIN 2.0)		
		100%

2. Performance Measurement

A. Quality/Electronics Fabrication - Forty-five percent of the available incentive fee shall be based upon the number of completed electronics fabrication work requests returned by the customer or the NASA Quality Inspector with errors attributable to the Contractor (reference Table A). An error attributable to the Contractor is work not in compliance with the NASA Assurance Standards Publications NAS/NHB 5300.4 Series and/or work not conforming to assembly drawings, diagrams, etc., and/or specifications provided with work requests. Earned fee shall be reduced by an additional 10 percent for each work request designated as "Quality Sensitive" that is returned with errors attributable to the Contractor. (All work requests returned with errors attributable to the Contractor shall be reworked.)

TABLE A

Number of Work Requests Returned With Errors Attributable to the Contractor	Percentage of 45 Percent of Available Fee
0	100%
1 - 2	80%
3 - 4	60%
> 4	0%

B. Quality/Electronic Equipment - Five percent of the available incentive fee shall be based upon the number of completed electronic equipment work requests/tasks with errors attributable to the Contractor (reference Table B). The number of "Call Backs" on equipment repairs shall serve as a measure of equipment repair quality.

TABLE B

Number of "Call Backs" for Equipment Repairs	Percentage of 5 Percent of Available Fee
0	100%
1 - 2	80%
3	60%
> 3	0%

C. Schedule/Electronics Fabrication - Twenty-five percent of the available incentive fee shall be based upon the percentage of completed electronics fabrication work requests completed within schedule (reference Table C). The final percentage for earned fee shall be reduced by an additional 10 percent for each missed "Must Hold" delivery date.

TABLE C

Percentage of Work Requests Completed On Time	Percentage of 25 Percent of Available Fee
98 - 100%	100%
94 - 97%	80%
90 - 93%	60%
< 90%	0%

D. Schedule/Electronic Equipment - Five percent of the available incentive fee shall be based upon the percentage of completed electronic equipment work requests/tasks completed in a timely manner (reference Table D). In computing the quarterly down time percentage, it is assumed that eight (8) hours of operational time are required each day (excluding weekend days and holidays) for the machines listed in Exhibit H, Equipment List 3. This results in an average total of 500 hours operational time per machine in Exhibit H, Equipment List 3. The equipment down time percentage shall be calculated as follows:

$$\text{Down Time Percentage} = \frac{\text{Total down time (in hours) for all machines listed in Exhibit H, List 3} \times 100}{\text{Number of machines in Exhibit H, List 3} \times 500 \text{ Operation Hours}}$$

TABLE D

Equipment "Down Time" Percentage	Percentage of 5 Percent of Available Fee
0 - 1.5%	100%
1.6 - 2.0%	80%
2.1 - 2.5%	60%
> 2.5%	0%

E. Cost Control - Twenty percent of the available incentive fee shall be based upon the Contractors ability to control cost under CLIN 1.0 and CLIN 2.0. See Section 3, Step 5F for the calculation of cost. The following Incentive Fee chart (Table E) will be used in determining the appropriate fee per period for cost.

TABLE E

Fee Category	Percentage
Maximum Fee	6.0%
Target Fee	5.0%
Minimum Fee	0.0%

3. Reporting Requirements and Evaluation Frequency

The Contractor shall submit on a quarterly basis to the CO and COTR a fee determination report. The report shall contain a contract number, the current date, report number with the applicable reporting period, and the total fee for the period in accordance with the instructions. The total fee computed will be subjected to Government Surveillance in accordance with Section 4 of this plan. The amount of incentive fee earned shall be based upon the Contractor's performance for work requests completed during the period as measured against the performance metrics specified in the SOW. The quarterly report should appear as follows or in a like format and be completed using the directions below.

(1) Work Requests	(2) Quality Metric	(3) Schedule Metric	(4) Target Cost	(5) Total Actual Cost

Step 1 - In Column 1, make a complete listing of the work requests completed during the quarter under CLIN 1.0. While work requests are not issued for CLIN 2.0, identify only those tasks performed during the quarter in which the metric was not met for quality and/or schedule.

Step 2 - In Column 2, applicable work requests under CLIN 1.0 should be annotated with a "QS" if identified as "Quality Sensitive". In addition, indicate if the Contractor has failed to meet the work request quality metric by placing an "X" in the column. Work requests that required rework as a result of not meeting the quality metric will not be fee bearing and identified in Column 4, Target Cost, as \$0. If the Contractor has met the metric then the space should be left blank. Identify for CLIN 2.0 tasks that required a "Call Back" with a "CB".

Step 3 - In Column 3, applicable work requests under CLIN 1.0 should be annotated with a "MH" if identified as "Must Hold". In addition, indicate if the Contractor has failed to meet the work request schedule metric by placing an "X" in the column. If the Contractor has met the schedule then the space should be left blank. Identify for CLIN 2.0 tasks that experienced "Down Time" with a "DT" and the representative down time/hours.

Step 4 - In Column 4, identify the target cost for CLIN 2.0 and for each completed work request under CLIN 1.0. The target cost for CLIN 2.0 is the estimated cost identified in Section B.2 of the contract schedule broken out on a quarterly basis. The target cost for each work request under CLIN 1.0 is the negotiated work request amount (reference Section G.5, Work Requests). As stated above, any work requests that were reworked as a result of missing the quality metric will not be fee bearing and are to be identified in Column 4 as \$0. In Column 5, identify the total actual cost incurred under CLIN 2.0 for the three month period and for each work request completed under CLIN 1.0.

Step 5 - The Contractor shall calculate the following:

- A. Target Cost:
The cumulative target cost for the period is the sum of Column 4.
- B. The dollar amounts for Target Fee, Maximum Fee, and Minimum Fee:
Multiply the target cost by the negotiated fee percentages contained in the Incentive Fee Chart referenced in Table E.
- C. The percentage of fee associated with the Quality Metric:
- (1) The percentage for Quality/Electronics Fabrication is derived by taking the total number of X's in Column 2 and applying it to Table A of this plan. For example, if 3 work requests missed the quality metric then the percentage is 60%. Reduce the fee percentage by 10 additional percentage points for each missed quality work request annotated with a "QS". For example, if 2 of the 3 missed work requests were annotated with a "QS" then the 60% will be reduced by 20 percentage points to 40%.
- (2) The percentage for Quality/Electronic Equipment is derived by taking the total number of X's or "CBs" in Column 2 and applying it to Table B of this plan. For example, if 2 tasks missed the quality metric then the percentage is 80%.
- D. The percentage of fee associated with the Schedule Metric:
- (1) The percentage for Schedule/Electronics Fabrication is calculated by subtracting the total number of X's in Column 3 from the total number of work requests completed during the period and dividing the resulting number by the total number of work requests completed during the period times 100. This percentage is then applied to Table C of this plan. For example, if there is 1X and 10 work requests completed during the period then the percentage of work requirements where the Contractor has met the schedule is $((10-1)/10) \times 100 = 90\%$. The 90% is then applied to Table C of this plan, resulting in 60% for schedule. Reduce the final fee percentage by 10 additional percentage points for each missed schedule annotated with a "MH". For example, if the 1 missed schedule was annotated with a "MH" then the 60% will be reduced by 10 percentage points to 50%.
- (2) The down time percentage for Schedule/Electronic Equipment is calculated as shown in Section 2, Paragraph D of this plan. The hours identified in Column 3 for CLIN 2.0 will be used in the formula identified in Paragraph D. The calculated down time percentage is then applied to Table D.
- E. The quality and schedule metric fee amount:
Multiply the percentages computed under C and D above by the maximum fee amount established in B above. The Quality Fee and the Schedule Fee will be used in G below to compute the Final Fee.
- F. The fee associated with cost:
Calculate by using an 70/30 Fee adjustment formula which represents a share line where the Government's share is 70% and the Contractor's share is 30%. The calculation is as follows:
- (1) Compute the cost variance:
Cost Variance = Total Actual Cost (sum of Column 5) - Target Cost (sum of Column 4)
- (2) Compute the Change in Fee:
Change in Fee = Contractor's Share (30%) x Cost Variance
- (3) Compute the Fee associated with the cost metric:

Underrun

Fee for cost metric = Underrun (Actual cost < Target Cost) then: Target Fee + Change in Fee or the Maximum Fee calculated in Step 5B, whichever is less.

Overrun

Fee for cost metric = Overrun (Actual Cost > Target Cost) then: Target Fee - Change in Fee or the Minimum Fee calculated in Step 5B, whichever is greater.

G. Calculation of Final Fee:

Final Fee = (Quality/Electronics Fabrication from Step 5E) x (0.45) +
 (Quality/Electronic Equipment from Step 5E) x (0.05) +
 (Schedule/Electronics Fabrication from Step 5E) x (0.25) +
 (Schedule/Electronic Equipment from Step 5E) x (0.05) +
 (Cost from Step 5F) x (0.20)

4. Surveillance

The quarterly fee report will be reviewed by the Government to verify that the Contractor has correctly and accurately computed the appropriate amount of fee for the period. This review will be completed by the Government within 5 working days from receipt of the Incentive Fee Report. Once the Government notifies the Contractor of acceptance of the report a proper voucher may be submitted for payment. Accuracy of reporting of quality and schedule will be consist of periodic visual monitoring of operations by the COTR or dually appointed representative(s), the NASA Quality Inspector and ISO Auditor and random audits of reports during the evaluation period. Other surveillance techniques may be employed if considered necessary by the Government. If random audits detect reporting errors, the Contractor's final percentage of incentive fee on the element(s) found in error will be reduced by 5% for the first occurrence. Any repeated reporting errors will result in an incentive fee of 0% for the element(s) found in error.

The Government reserves the right to audit actual cost records to verify accuracy for computation of fee for the cost metric. Upon any such audit, the Government may adjust the fee claimed for the current period or previous periods to reflect the correct actual cost. The Contractor shall maintain accounting records that show costs for each work requirement.

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING a. FACILITY CLEARANCE REQUIRED SECRET b. LEVEL OF SAFEGUARDING REQUIRED NONE	
2. THIS SPECIFICATION IS FOR: <small>X and complete as applicable</small>			3. THIS SPECIFICATION IS: <small>X and complete as applicable</small>		
X	a. PRIME CONTRACT NUMBER NAS1- 98110		X	a. ORIGINAL (Complete date in all cases) 98/04/08 Date: YYMMDD	
	b. SUBCONTRACT NUMBER			b. REVISED (Supersedes all previous specs)	Revision No. Date: YYMMDD
	c. SOLICITATION OR OTHER NUMBER	Due Date (YYMMDD)		c. FINAL (Complete Item 5 in all cases) Date: (YYMMDD)	
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes, complete the following: In response to the contractor's request dated _____, retention of the identified classified material is authorized for the period of _____					
6. CONTRACTOR <small>(Include Commercial and Government Entry (CAGE) Code)</small>					
a. NAME, ADDRESS, AND ZIP CODE RAYTHEON SUPPORT SERVICES COMPANY 5740 E. BAYSIDE ROAD VIRGINIA BEACH, VA 23455		b. CAGE CODE OPXX6	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) DEFENSE SECURITY SERVICES PEMBROKE 5 SUITE 5250 VIRGINIA BEACH VA. 23462 -5460		
7. SUBCONTRACTOR					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)		
8. ACTUAL PERFORMANCE					
a. LOCATION NASA Langley Research Center Hampton, VA 23681		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)		
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT ELECTRONIC FABRICATION AND ELECTRONIC EQUIPMENT SUPPORT SERVICES CONTRACT					
10. THIS CONTRACT WILL REQUIRE ACCESS TO:				11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
	YES	NO		YES	NO
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		X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		X
d. FORMERLY RESTRICTED DATA		X	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		X
e. INTELLIGENCE INFORMATION:			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		X
(2) Non-SCI		X	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		X
f. SPECIAL ACCESS INFORMATION		X	h. REQUIRE A COMSEC ACCOUNT		X
g. NATO INFORMATION		X	i. HAVE TEMPEST REQUIREMENTS		X
h. FOREIGN GOVERNMENT INFORMATION		X	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		X
i. LIMITED DISSEMINATION INFORMATION		X	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		X
l. FOR OFFICIAL USE ONLY INFORMATION		X	l. OTHER (Specify)		
k. OTHER (Specify)					

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U. S. Government authority. Proposed public release shall be submitted for approval.

Direct Through (Specify):

No Public Release Authorized

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DOD User Agencies, requests for disclosure shall be submitted by that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for the classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance of the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

ALL WORK ON THIS CONTRACT WILL BE PERFORMED AT GOVERNMENT FACILITIES WHERE CLASSIFICATION GUIDANCE WILL BE PROVIDED AS NECESSARY.

THE CONTRACTOR WILL BE SUPPORTING ONGOING RESEARCH AND DEVELOPMENT PROGRAMS REQUIRING INDIVIDUALS, DESIGNATED BY GOVERNMENT, TO HAVE A SECRET SECURITY CLEARANCE.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. (If yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies additional requirements. Provide a copy of the requirements to the cognizant security office. Use item 13 if additional space is needed.)

YES NO

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. (If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

YES NO

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL Sam A. Harvey	b. TITLE Program Security Team Leader	c. TELEPHONE (Include Area Code) 757-864-6507
--	---	---

d. ADDRESS (Include Zip Code) NASA LANGLEY RESEARCH CENTER M/S 182 HAMPTON VA. 23681-0001	17. REQUIRED DISTRIBUTION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>a. CONTRACTOR</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>b. SUBCONTRACTOR</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>d. U. S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>e. ADMINISTRATIVE CONTRACTING OFFICER</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>f. OTHERS AS NECESSARY</td> </tr> </table>	<input checked="" type="checkbox"/>	a. CONTRACTOR	<input type="checkbox"/>	b. SUBCONTRACTOR	<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR	<input type="checkbox"/>	d. U. S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION	<input checked="" type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER	<input type="checkbox"/>	f. OTHERS AS NECESSARY
<input checked="" type="checkbox"/>	a. CONTRACTOR												
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<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR												
<input type="checkbox"/>	d. U. S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION												
<input checked="" type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER												
<input type="checkbox"/>	f. OTHERS AS NECESSARY												
e. SIGNATURE 													

EXHIBIT D

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

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON, D.C. 20210
Wage Determination No.: 94-2544
Revision No.: 14
Date of Last Revision: 07/02/1997

William W. Gross Division of
Director Wage Determinations

State(s): North Carolina, Virginia

Area: NORTH CAROLINA COUNTIES OF CAMDEN, CHOWAN, CURRITUCK, GATES,
 PASQUOTANK, PERQUIMANS.
 VIRGINIA COUNTIES OF CHESAPEAKE, GLOUCESTER, HAMPTON, ISLE OF WIGHT, JAMES
 CITY, MATHEWS, NEWPORT NEWS, NORFOLK, POQUOSON, PORTSMOUTH,
 SOUTHAMPTON, SUFFOLK, SURRY, VIRGINIA BEACH, WILLIAMSBURG, YORK.

**** Fringe Benefits Required For All Occupations Included In
This Wage Determination Follow The Occupational Listing ****

OCCUPATION CODE AND TITLE**MINIMUM HOURLY WAGE****ADMINISTRATIVE SUPPORT AND CLERICAL:**

01011 Accounting Clerk I	\$ 6.75
01012 Accounting Clerk II	\$ 8.52
01013 Accounting Clerk III	\$10.60
01014 Accounting Clerk IV	\$11.50
01030 Court Reporter	\$10.81
01050 Dispatcher, Motor Vehicle	\$ 9.23
01060 Document Preparation Clerk	\$ 9.29
01070 Messenger (Courier)	\$ 9.01
01090 Duplicating Machine Operator	\$ 9.29
01110 Film/Tape Librarian	\$ 9.28
01115 General Clerk I	\$ 7.34
01116 General Clerk II	\$ 9.03
01117 General Clerk III	\$11.23
01118 General Clerk IV	\$12.55
01120 Housing Referral Assistant	\$11.98
01131 Key Entry Operator I	\$ 7.78
01132 Key Entry Operator II	\$ 9.79
01191 Order Clerk I	\$ 7.40
01192 Order Clerk II	\$ 9.68
01261 Personnel Assistant (Employment) I	\$ 8.85
01262 Personnel Assistant (Employment) II	\$10.23
01263 Personnel Assistant (Employment) III	\$10.80
01264 Personnel Assistant (Employment) IV	\$12.38

01270 Production Control Clerk	\$11.98
01290 Rental Clerk	\$ 9.28
01300 Scheduler, Maintenance	\$ 9.28
01311 Secretary I	\$ 9.28
01312 Secretary II	\$10.80
01313 Secretary III	\$12.38
01314 Secretary IV	\$14.46
01315 Secretary V	\$15.18
01320 Service Order Dispatcher	\$ 9.28
01341 Stenographer I	\$ 8.78
01342 Stenographer II	\$ 9.86
01400 Supply Technician	\$11.50
01420 Survey Worker(Interviewer)	\$10.80
01460 Switchboard Operator-Receptionist	\$ 8.08
01510 Test Examiner	\$10.80
01520 Test Proctor	\$10.80
01531 Travel Clerk I	\$ 6.91
01532 Travel Clerk II	\$ 7.63
01533 Travel Clerk III	\$ 8.13
01611 Word Processor I	\$10.00
01612 Word Processor II	\$11.27
01613 Word Processor III	\$12.62

AUTOMATIC DATA PROCESSING:

03010 Computer Data Librarian	\$ 8.26
03041 Computer Operator I	\$ 9.25
03042 Computer Operator II	\$10.70
03043 Computer Operator III	\$13.25
03044 Computer Operator IV	\$15.34
03045 Computer Operator V	\$16.31
03071 Computer Programmer I 1/	\$13.38
03072 Computer Programmer II 1/	\$15.15
03073 Computer Programmer III 1/	\$18.05
03074 Computer Programmer IV 1/	\$21.52
03101 Computer Systems Analyst I 1/	\$17.62
03102 Computer Systems Analyst II 1/	\$20.28
03103 Computer Systems Analyst III 1/	\$24.98
03160 Peripheral Equipment Operator	\$ 8.26

AUTOMOTIVE SERVICE:

05005 Automobile Body Repairer, Fiberglass	\$16.22
05010 Automotive Glass Installer	\$14.79
05040 Automotive Worker	\$14.79
05070 Electrician, Automotive	\$15.49
05100 Mobile Equipment Servicer	\$13.37
05130 Motor Equipment Metal Mechanic	\$16.22
05160 Motor Equipment Metal Worker	\$14.79
05190 Motor Vehicle Mechanic	\$16.22
05220 Motor Vehicle Mechanic Helper	\$12.61
05250 Motor Vehicle Upholstery Worker	\$14.07
05280 Motor Vehicle Wrecker	\$14.79
05310 Painter, Automotive	\$15.49

05340 Radiator Repair Specialist	\$14.07
05370 Tire Repairer	\$13.37
05400 Transmission Repair Specialist	\$16.22

FOOD PREPARATION AND SERVICE:

07010 Baker	\$ 8.68
07041 Cook I	\$ 7.85
07042 Cook II	\$ 8.68
07070 Dishwasher	\$ 6.05
07100 Food Service Worker (Cafeteria Worker)	\$ 6.05
07130 Meat Cutter	\$ 8.68
07250 Waiter/Waitress	\$ 6.58

FURNITURE MAINTENANCE AND REPAIR:

09010 Electrostatic Spray Painter	\$15.49
09040 Furniture Handler	\$11.21
09070 Furniture Refinisher	\$15.49
09100 Furniture Refinisher Helper	\$12.61
09110 Furniture Repairer, Minor	\$14.07
09130 Upholsterer	\$15.49

GENERAL SERVICES AND SUPPORT.

11030 Cleaner, Vehicles	\$ 6.05
11060 Elevator Operator	\$ 6.05
11090 Gardener	\$ 7.75
11121 Housekeeping Aide I	\$ 5.93
11122 Housekeeping Aide II	\$ 6.49
11150 Janitor	\$ 6.05
11210 Laborer, Grounds Maintenance	\$ 6.58
11240 Maid or Houseman	\$ 5.52
11270 Pest Controller	\$ 8.25
11300 Refuse Collector	\$ 6.05
11330 Tractor Operator	\$ 7.38
11360 Window Cleaner	\$ 6.58

HEALTH:

12020 Dental Assistant	\$10.15
12040 Emergency Medical Technician/ Paramedic Ambulance Driver	\$ 9.13
12070 Licensed Practical Nurse I	\$ 8.00
12071 Licensed Practical Nurse II	\$ 8.98
12072 Licensed Practical Nurse III	\$10.05
12100 Medical Assistant	\$ 8.98
12130 Medical Laboratory Technician	\$ 8.98
12160 Medical Record Clerk	\$ 8.98
12190 Medical Record Technician	\$12.45
12221 Nursing Assistant I	\$ 6.52
12222 Nursing Assistant II	\$ 7.33
12223 Nursing Assistant III	\$ 8.00
12224 Nursing Assistant IV	\$ 8.98

12250 Pharmacy Technician	\$11.20
12280 Phlebotomist	\$ 8.98
12311 Registered Nurse I	\$12.45
12312 Registered Nurse II	\$15.23
12313 Registered Nurse II, Specialist	\$15.23
12314 Registered Nurse III	\$18.43
12315 Registered Nurse III, Anesthetist	\$18.43
12316 Registered Nurse IV	\$22.09

INFORMATION AND ARTS:

13002 Audiovisual Librarian	\$11.96
13011 Exhibits Specialist I	\$15.02
13012 Exhibits Specialist II	\$18.25
13013 Exhibits Specialist III	\$20.27
13041 Illustrator I	\$15.02
13042 Illustrator II	\$18.25
13043 Illustrator III	\$20.27
13047 Librarian	\$13.75
13050 Library Technician	\$11.02
13071 Photographer I	\$11.33
13072 Photographer II	\$15.02
13073 Photographer III	\$18.25
13074 Photographer IV	\$20.27
13075 Photographer V	\$24.53

LAUNDRY, DRY CLEANING, PRESSING:

15010 Assembler	\$ 5.49
15030 Counter Attendant	\$ 5.49
15040 Dry Cleaner	\$ 6.77
15070 Finisher, Flatwork, Machine	\$ 5.49
15090 Presser, Hand	\$ 5.49
15100 Presser, Machine, Dry Cleaning	\$ 5.49
15130 Presser, Machine, Shirts	\$ 5.49
15160 Presser, Machine, Wearing Apparel, Laundry	\$ 5.49
15190 Sewing Machine Operator	\$ 7.22
15220 Tailor	\$ 7.67
15250 Washer, Machine	\$ 5.93

MACHINE TOOL OPERATION AND REPAIR:

19010 Machine-tool Operator (Toolroom)	\$15.49
19040 Tool and Die Maker	\$17.84

MATERIALS HANDLING AND PACKING:

21010 Fuel Distribution System Operator	\$13.37
21020 Material Coordinator	\$12.19
21030 Material Expediter	\$12.19
21040 Material Handling Laborer	\$ 7.44
21050 Order Filler	\$ 8.46
21071 Forklift Operator	\$ 9.05
21080 Production Line Worker (Food Processing)	\$10.54

21100 Shipping/Receiving Clerk	\$ 8.85
21130 Shipping Packer	\$ 8.85
21140 Store Worker I	\$ 8.40
21150 Stock Clerk (Shelf Stocker, Store Worker II)	\$ 9.92
21210 Tools and Parts Attendant	\$10.95
21400 Warehouse Specialist	\$10.54

MECHANICS AND MAINTENANCE AND REPAIR:

23010 Aircraft Mechanic	\$16.22
23040 Aircraft Mechanic Helper	\$12.61
23050 Aircraft Quality Control Inspector	\$16.94
23060 Aircraft Servicer	\$14.07
23070 Aircraft Worker	\$14.79
23100 Appliance Mechanic	\$15.49
23120 Bicycle Repairer	\$13.37
23125 Cable Splicer	\$16.22
23130 Carpenter, Maintenance	\$15.49
23140 Carpet Layer	\$14.79
23160 Electrician, Maintenance	\$16.22
23181 Electronics Technician, Maintenance I	\$13.99
23182 Electronics Technician, Maintenance II	\$14.31
23183 Electronics Technician, Maintenance III	\$15.33
23260 Fabric Worker	\$14.07
23290 Fire Alarm System Mechanic	\$16.22
23310 Fire Extinguisher Repairer	\$13.37
23340 Fuel Distribution System Mechanic	\$16.22
23370 General Maintenance Worker	\$14.79
23400 Heating, Refrigeration and Air Conditioning Mechanic	\$16.22
23430 Heavy Equipment Mechanic	\$16.22
23440 Heavy Equipment Operator	\$16.22
23460 Instrument Mechanic	\$16.22
23470 Laborer	\$ 9.68
23500 Locksmith	\$15.49
23530 Machinery Maintenance Mechanic	\$16.18
23550 Machinist, Maintenance	\$16.22
23580 Maintenance Trades Helper	\$12.61
23640 Millwright	\$16.22
23700 Office Appliance Repairer	\$15.49
23740 Painter, Aircraft	\$15.49
23760 Painter, Maintenance	\$15.49
23790 Pipefitter, Maintenance	\$16.22
23800 Plumber, Maintenance	\$15.49
23820 Pneudraulic Systems Mechanic	\$16.22
23850 Rigger	\$16.22
23870 Scale Mechanic	\$14.79
23890 Sheet-metal Worker, Maintenance	\$16.22
23910 Small Engine Mechanic	\$14.79
23930 Telecommunications Mechanic I	\$16.22
23940 Telecommunications Mechanic II	\$16.94
23950 Telephone Lineman	\$16.22
23960 Welder, Combination, Maintenance	\$16.22
23965 Well Driller	\$16.22
23970 Woodcraft Worker	\$16.22

23980 Woodworker	\$13.37
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PERSONAL NEEDS:

24570 Child Care Attendant	\$ 6.34
24580 Child Care Center Clerk	\$ 7.91
24600 Chore Aide	\$ 4.91
24630 Homemaker	\$ 8.33

PLANT AND SYSTEM OPERATION:

25010 Boiler Tender	\$16.22
25040 Sewage Plant Operator	\$15.49
25070 Stationary Engineer	\$16.22
25190 Ventilation Equipment Tender	\$12.61
25210 Water Treatment Plant Operator	\$15.49

PROTECTIVE SERVICE:

27004 Alarm Monitor	\$ 7.21
27006 Corrections Officer	\$11.47
27010 Court Security Officer	\$11.47
27040 Detention Officer	\$11.47
27070 Firefighter	\$11.47
27101 Guard I	\$ 6.03
27102 Guard II	\$ 7.21
27130 Police Officer	\$12.28

STEVEDORING/LONGSHOREMEN SERVICE OCCUPATIONS:

28010 Blocker and Bracer	\$12.33
28020 Hatch Tender	\$12.33
28030 Line Handler	\$12.33
28040 Stevedore I	\$11.80
28050 Stevedore II	\$12.96

TECHNICAL:

29010 Air Traffic Control 2/Specialist, Center	\$23.96
29011 Air Traffic Control 2/Specialist, Station	\$16.53
29012 Air Traffic Control 2/Specialist, Terminal	\$18.20
29023 Archeological Technician I	\$11.43
29024 Archeological Technician II	\$12.85
29025 Archeological Technician III	\$15.87
29030 Cartographic Technician	\$15.87
29035 Computer Based Training Specialist/Instructor	\$17.62
29040 Civil Engineering Technician	\$15.87
29061 Drafter I	\$10.07
29062 Drafter II	\$11.33
29063 Drafter III	\$14.24
29064 Drafter IV	\$17.30
29081 Engineering Technician I	\$11.50
29082 Engineering Technician II	\$12.30
29083 Engineering Technician III	\$15.15

29084 Engineering Technician IV	\$18.35
29085 Engineering Technician V	\$21.43
29086 Engineering Technician VI	\$26.48
29090 Environmental Technician	\$15.87
29100 Flight Simulator Instructor (Pilot)	\$20.28
29150 Graphic Artist	\$17.62
29160 Instructor	\$15.23
29210 Laboratory Technician	\$11.83
29240 Mathematical Technician	\$15.87
29361 Paralegal/Legal Assistant I	\$10.80
29362 Paralegal/Legal Assistant II	\$13.12
29363 Paralegal/Legal Assistant III	\$16.05
29364 Paralegal/Legal Assistant IV	\$19.42
29390 Photooptics Technician	\$15.87
29480 Technical Writer	\$15.02
29491 Unexploded Ordinance Technician I	\$15.23
29492 Unexploded Ordinance Technician II	\$18.43
29493 Unexploded Ordinance Technician III	\$22.09
29494 Unexploded Safety Escort	\$15.23
29495 Unexploded Sweep Personnel	\$15.23
29620 Weather Observer, Senior 3/	\$12.80
29621 Weather Observer, Combined 3/Upper Air and Surface Programs	\$11.83
29622 Weather Observer, Upper Air 3/	\$11.83

TRANSPORTATION/MOBILE EQUIPMENT OPERATION:

31030 Bus Driver	\$ 9.42
31260 Parking and Lot Attendant	\$ 6.98
31290 Shuttle Bus Driver	\$ 9.01
31300 Taxi Driver	\$ 8.50
31361 Truckdriver, Light Truck	\$ 9.01
31362 Truckdriver, Medium Truck	\$ 9.42
31363 Truckdriver, Heavy Truck	\$10.50
36364 Truckdriver, Tractor-Trailer	\$10.50

MISCELLANEOUS :

99020 Animal Caretaker	\$ 7.00
99030 Cashier	\$ 5.93
99041 Carnival Equipment Operator	\$ 5.93
99042 Carnival Equipment Repairer	\$ 7.38
99043 Carnival Worker	\$ 7.75
99050 Desk Clerk	\$ 7.00
99095 Embalmer	\$17.63
99300 Lifeguard	\$ 5.36
99310 Mortician	\$17.63
99350 Park Attendant (Aide)	\$ 6.73
99400 Photofinishing Worker (Photo Lab / Dark Room Technician)	\$ 6.01
99500 Recreation Specialist	\$13.04
99510 Recycling Worker	\$ 7.41
99610 Sales Clerk	\$ 5.36
99620 School Crossing Guard (Crosswalk Attendant)	\$ 6.05
99630 Sports Official	\$ 5.36

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

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

HEALTH & WELFARE: Life, accident, and health insurance plans, sick leave, pension plans, civic and personal leave, severance pay, and savings and thrift plans. Minimum employer contributions costing an average of \$2.56 per hour computed on the basis of all hours worked by service employees employed on the contract.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 8 years; 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with predecessor contractors in the performance of similar work at the same Federal facility. (See 29 CFR. 4.173)

HOLIDAYS: Minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

- 1 Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See 29 CFR 4.156)
- 2 **APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL:** An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.
- 3 **APPLICABLE TO WEATHER OBSERVERS ONLY - NIGHT PAY & SUNDAY PAY:** If you work at night as a part of a regular tour of duty, you will earn a NIGHT DIFFERENTIAL and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employee (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

**** 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 \$4.25 per week (or \$.85 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**** NOTES APPLYING TO THIS WAGE DETERMINATION ****

Source of Occupational Titles and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Second Supplement, dated August 1995, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE
{Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. (See Section 4.6 (C)(vi)) When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See Section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

EXHIBIT E

RAYTHEON SUPPORT SERVICES COMPANY
2 WAYSIDE ROAD
BURLINGTON, MA 01803

SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS
MASTER SUBCONTRACTING PLAN


THIS SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN COMPLIES WITH PUBLIC LAW 95-507 AND DESCRIBES THE METHODS, MEANS, POLICIES AND PROCEDURES EMPLOYED BY RSSC TO ENSURE COMPLIANCE WITH FAR 52.219-8 AND 52.219-9, AND DFARS 219.704 AND 252.219-7003, ON WHICH THE RSSC MASTER SUBCONTRACTING PROGRAM IS BASED.

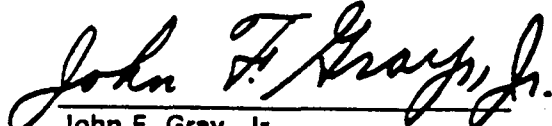
EFFECTIVE PERIOD

01 OCTOBER 1996 - 30 SEPTEMBER 1999

RAYTHEON SUPPORT SERVICES COMPANY

DCMC, RAYTHEON


Patrick M. Roddy
President


John F. Gray, Jr.
Division Administrative Contracting Officer

10 October 1996
Dated

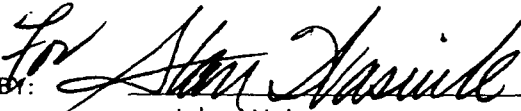
10 October 1996
Dated


Donald S. Johnson
Procurement Manager

2 October 1996
Dated

SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED
SMALL BUSINESS SUBCONTRACTING PLAN

PROGRAM NAME: NASA Langley Research Center DATE: January 16, 1998
DESCRIPTION: Electronics Fabrication and
Electronic Equipment Support RFP Nº: 1-135-GJE.8762
PROPOSAL Nº: SJW:013-98 CONTRACT Nº: _____

REVIEWED BY: 
John W. Lemont
Small Business Liaison Officer
(781) 238-3235

A. **SUBCONTRACTING GOALS - FAR 52.219-9, (d) (1) and (2)**

	(1) PERCENT	(2) DOLLARS
Total Planned Subcontracts:	100	\$1,750,000
Total Small Business Goals: (including SDB and WOSB)	56	\$987,500
Small Disadvantaged Business (SDB) Goals: (including HBCU/MI's)	51	\$900,000
Women-Owned Small Business (WOSB) Goals:	5	\$87,500

B. **SUPPLIES/SERVICES TO BE SUBCONTRACTED - FAR 52.219-9, (d) (3)**

RSSC is a service company and, as such, does not manufacture any standard products. RSSC procures materials and services as required to meet individual contract requirements. The following commodities/ services have been identified for potential subcontract placement with Small, Small Disadvantaged and Women-Owned Small Business concerns:

1. Printed circuit boards
2. Calibration technician hours
3. Electronic supplies/materials
4. Computer components/parts
5. Custodial services
6. Temporary Hire services

RAYTHEON SUPPORT SERVICES COMPANY'S MASTER SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN, FOR THE PERIOD 01 OCTOBER 1996 TO 30 SEPTEMBER 1999, DESCRIBES THE METHODS, MEANS, POLICIES AND PROCEDURES EMPLOYED BY RSSC IN THE IMPLEMENTATION OF ITS SMALL BUSINESS SUBCONTRACTING PROGRAM AND IS INCORPORATED HEREIN BY REFERENCE.

C. METHOD OF DEVELOPING GOALS - FAR 52.219-9 (d) (4)

1. To develop the proposed goals set forth in this subcontracting plan, the entire RFP statement of work is reviewed by RSSC's proposal/program manager and purchasing representatives to determine the types of contract materials and services that could be furnished by Small, Small Disadvantaged and Women-Owned Small Business concerns.
2. Approved vendor lists are established and maintained by the Purchasing operation who then identifies vendors as Large, Small, Small Disadvantaged or Women-Owned Small Business concerns.
3. In addition to reliance on internal vendor directories and inter-company Small, Small Disadvantaged, Women-Owned Small Business data exchange lists for Small, Small Disadvantaged and Women-Owned Small Business vendor sources, RSSC Procurement personnel utilize the following outside directories, lists and services:
 - o SBA 8(a) Regional Minority Firm Listing
 - o National Minority Business Directory
 - o Directory of Minority and Women-Owned Business Firms
 - o New England Minority Purchasing Council (NEMPC) Vendor Directory
 - o U.S. Government Small Business Utilization Office Listings
 - o State Government SDB Directories (where available)

RSSC Procurement personnel also attend SB/SDB/WOSB trade fairs, procurement conferences, company seminars, etc. in order to expand existing vendor listings, maintain individual knowledge in SB/SDB/WOSB Government regulations and company practices so as to increase proficiency in their practical applications.

4. Buyers identify qualified Small, Small Disadvantaged and Women-Owned Small Business concerns in four ways: by referring to company small and minority vendor listings; by written representations submitted by the subcontractor; by self-initiated action to expand the supplier base; and by enlisting the assistance of the RSSC SBLO who contacts the Regional Office of the Small Business Administration and other services as required. As new or additional data on Small, Small Disadvantaged and Women-Owned Small Business is accumulated, it is added to the Company's approved Vendor list. Prospective subcontractors make verbal representations regarding their SB/SDB/WOSB status, but they must be evaluated, proved qualified, and then selected through competitive bidding or negotiation process the same as other suppliers. Buyers are not required to verify representations made by these firms.

D. METHODS USED FOR SOLICITATION - FAR 52.219-9 (d) (5)

Alt. 1 - No significant solicitation was made in development of RSSC's proposal. Solicitation will be made from Company vendor lists and other available information.

Alt. 2 - Solicitations were made in development of RSSC's proposal based upon company vendor lists and other information.

E. OVERHEAD ITEMS FAR 52.219-9 (d) (6)

1. Because identification of specific overhead items with individual contract procurements is not practical, RSSC has elected not to include indirect and overhead cost items as an element in its Plan. However, RSSC affords SB/SDB/WOSB concerns the maximum practicable opportunity to participate in procurement of overhead items. Prior to the procurement of these items, review and determination is made as to which items can be procured from SB/SDB/WOSB concerns.

F. ADMINISTRATION - FAR 52.219-9 (d) (7)

Responsibility for the implementation and administration of this Subcontracting Plan for RSSC is hereby vested in our Small Business Liaison Officer, Mr. John Lemont. His duties include, but are not limited to, the following:

1. Reviewing all proposed small business subcontracting plans with program management staffs.
2. Reviewing the list of make-or-buy candidate items and making recommendations as to potential Small, Small Disadvantaged and Women-Owned Small Business suppliers capable of providing program support, as appropriate.
3. Screening bills-of-material to identify commodities and/or services which may be obtainable from Small, Small Disadvantaged and Women-Owned Small Business firms.
4. Encouraging buyers to solicit Small, Small Disadvantaged and Women-Owned Small Business sources of supply in conformance with Company purchasing practices.
5. Ensuring that buyers have current directories of Small, Small Disadvantaged and Women-Owned Small Business firms.
6. Arranging introductions for SB/SDB/WOSB concerns to cognizant procurement and/or technical personnel responsible for source evaluation/ selection.
7. Giving advice to SB/SDB/WOSB concerns in the techniques of bid preparation, as appropriate.
8. Preparation of required statistical reports and validating their accuracy.
9. Bringing to Management's attention any problems, current or foreseeable, that could impair compliance with the plan.
10. Maintaining RSSC's Small, Small Disadvantaged and Women-Owned Small Business listings.
11. Obtaining current 8A firm listings from the U.S. Small Business Administration.
12. Maintaining relations with U.S. Government agencies responsible for socio-economic requirements of prime contract/subcontract procurements to ensure compliance with existing regulations and to plan for the implementation of new and/or changed regulations.

The RSSC Small Business Liaison Officer acts as the central clearing office for the Small Business Subcontracting Program and functions as the intermediary between the Raytheon Corporate/Small Business Liaison Office and RSSC program personnel.

G. IMPLEMENTING EFFORTS - FAR 52.219-9 (d) (8)

RSSC, as a Government contractor, will help develop maximum practicable opportunities for Small, Small Disadvantaged and Women-Owned Small Businesses to participate in the performance of Government contracts. A special effort will be made to identify, create procurement opportunities, solicit, and fairly consider such businesses for subcontracting, consistent with efficient contract performance. To this end:

1. Solicitations, time periods for bidding, and delivery schedules will be set to enable known Small, Small Disadvantaged and Women-Owned Small Business to compete.
2. Procurements will be reviewed for possible breakout into economic quantities suitable for procurement from Small, Small Disadvantaged and Women-Owned Small Business concerns.
3. Make-or-buy deliberations will include adequate and timely consideration of known Small, Small Disadvantaged and Women-Owned Small Business firm capabilities.
4. Specifications, drawings, and other relevant data will be made available so that qualified known Small, Small Disadvantaged and Women-Owned Small Business concerns are not handicapped in preparing bids.
5. Best efforts will be made to engage Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) in procurements that are expected to involve research or studies that are traditionally performed by institutions of higher education.
6. Best efforts will be made to promote and to engage, where possible, National Institute for the Blind (NIB) and National Institute for the Severely Handicapped (NISH) suppliers under the Javits-Wagner-O'Day Program.

H. FLOW DOWN REQUIREMENTS - FAR 52.219-9 (d) (9)

RSSC will include the clause entitled "Utilization of Small, Small Disadvantaged and Women-Owned Small Business concerns," referenced in FAR 52.219-9 and in effect on the date hereof in all subcontracts which offer further subcontracting possibilities in the United States, and will require all subcontractors (except small business concerns) who receive subcontracts in excess of \$500,000 (or in the case of a contract for construction of any public facility, \$1,000,000), to adopt a similar subcontracting plan in consonance with the requirements of this clause. RSSC acknowledges submittal by lower tier subcontractors.

For planned procurement in excess of \$500,000.00, RSSC will review the offeror's plan for compliance with FAR 53.219(a) and 53.219(b) in order to ensure proper SF294/295 preparation and submittal.

I. STUDIES, SURVEYS AND REPORTS - FAR 52.219-9 (d) (10)

RSSC will 1) cooperate in any studies or surveys as may be required; 2) submit period reports for the Government to determine the extent of compliance by RSSC with the subcontracting plan; 3) submit SF294, "Subcontracting Report for Individual Contracts" and/or SF295, "Summary Subcontract Report" in accordance with the instructions on the form; and 4) ensure that its subcontractors submit SF294s and/or SF295s.

J. RECORD KEEPING - FAR 52.219-9 (d) (11)

RSSC has evolved a system to record and classify its subcontracting transactions. The system captures data regarding Large, Small, Small Disadvantaged and Women-Owned Small Businesses. Quarterly data on Small, Small Disadvantaged and Women-Owned Small Businesses are provided to Corporate Purchasing.

Approved vendor lists are required to be established and maintained by RSSC's procurement activities as per Company practice.

Raytheon's computerized data bank represents the status of suppliers in a listing/directory distributed to procurement and program office personnel. This listing/directory identifies each supplier as to its status as a Small, Small Disadvantaged and Women-Owned Small Business concern.

In addition to reliance on internal directories and inter-organizational data exchange for identification of potential disadvantaged suppliers, Company procurement personnel use numerous outside directories, personally visit minority business firms, and attend procurement conferences, trade fairs, etc., related to Small, Small Disadvantaged and Women-Owned Small Businesses. Records are maintained on these activities.

K. RECORD OF SOLICITATIONS

Monthly small business activity reports are submitted to the Raytheon Corporate SBLO. The report identifies all purchase orders placed, and their value, with SDB concerns. Examples of standard forms utilized to administer this program are:

1. Small Business Checklist - See attached copy.
2. Report of Solicitation - SDB Concern - See attached copy.
3. Minority Business Referral Form - See attached copy.

L. OUTREACH RECORDS

RSSC's Small Business Liaison Officer will maintain records of all outreach efforts. He will maintain written contact with disadvantaged and small business trade associations and with business development organizations. He will attend, when appropriate, Small, Small Disadvantaged and Women-Owned Small Business procurement conferences and trade fairs.

M. RECORDS OF INTERNAL SUPPORTING ACTIVITIES

Records will be maintained by RSSC's Small Business Liaison Officer of internal support activities such as:

- (i) workshops, seminars, training programs, etc.; and
- (ii) monitoring activities to evaluate compliance

N. RECORDS TO SUPPORT AWARD DATA

Records will be kept, on a contract by contract basis, of awarded subcontracts that support award data submitted to the Government, including name, address, and size status of subcontractor. When subcontracts are awarded for stocking purposes or for supplying more than one contract, and a portion of the subcontract effort relates to this contract, such records will be kept in identifiable files.

O. MAKE OR BUY DECISIONS

Company policy requires buyers to utilize Small, Small Disadvantaged and Women-Owned Small Business concerns owned and managed by socially and economically disadvantaged individuals to the greatest extent practicable consistent with efficient performance of Government contracts or subcontracts. Buyers are required to provide adequate and timely information of the capabilities of Small, Small Disadvantaged and Women-Owned Small Business concerns during all "Make-or-Buy" decisions. (Reference Policy No. 10-5001-110)

P. TRAINING

RSSC has an informal program of training and motivating purchasing personnel in the support of Small, Small Disadvantaged and Women-Owned Small Business concerns.

Q. ASSISTANCE TO SB/SDB/WOSB CONCERNS

1. RSSC's policy requires buyers to utilize Small, Small Disadvantaged and Women-Owned Small Business concerns owned and controlled by socially and economically disadvantaged individuals, to the greatest extent practicable, consistent with efficient performance of Government contracts and subcontracts. Buyers must evaluate each procurement to determine that qualified Small, Small Disadvantaged and Women-Owned Small Businesses are given equitable opportunities to compete. Purchasing will provide a reasonable time to all suppliers for submission of their bids.
2. Allowances, consistent with contract requirements and good purchasing practices, will be made to permit delivery of economical quantities with reasonable delivery schedules. Procurements will not be delayed for the benefit of a small supplier or small disadvantaged supplier when to do so would adversely affect contract performance. Any reason for order deviation must be justified and documented in the procurement file.
3. Specifications, drawings, and other pertinent data will be made available to technically and financially competent small businesses and small businesses owned and controlled by socially and economically disadvantaged individuals so that they may intelligently prepare their bids.
4. When mutually beneficial, management and technical assistance may be provided. The type of assistance offered may include, but not be limited to, quality control guidance, technical, manufacturing and management consultation.

R. POLICY STATEMENTS

1. Raytheon has issued company-wide policy statements in support of Small, Small Disadvantaged and Women-Owned Small Business concerns owned and controlled by socially and economically disadvantaged individuals. (Reference Policy No. 73-2005-610).
2. RSSC has developed written procedures to implement the effort to support the above policy statement.
3. Included in the Company Purchasing/Traffic Manual are work instructions which implement the Company's commitment to Small, Small Disadvantaged and Women-Owned Small Businesses as well as Equal Employment Opportunity, Employment of Handicapped Persons, and Veteran Employment Programs.
4. RSSC has assigned specific responsibilities to its SBLO in the implementation of Small, Small Disadvantaged and Women-Owned Small Business plans and other requirements of FAR 52.219-9 in effect on the date hereof.

S. MANAGEMENT COMMITMENT

The President of RSSC has firmly committed the Company to uphold existing Government policies and enacted congressional regulations regarding Small, Small Disadvantaged and Women-Owned Small Business concerns owned and controlled by socially and economically disadvantaged individuals, as a matter of policy. These businesses shall have the maximum practicable opportunity to compete for subcontract awards to the fullest extent consistent with efficient performance of this contract.

At the Raytheon Corporate level, senior Company management meets periodically with the Corporate Director of Procurement to review the Company's Small, Small Disadvantaged and Women-Owned Small Business subcontracting achievements so as to assess the effectiveness of the Company's Socio-Economic Program.

a:/mastpin.RSSC-10/98

SMALL BUSINESS CHECKLIST

AWARDS OVER \$100,000

P.O. NO.	P.O. VALUE	PART NAME	PART NO.
AWARD MADE TO: LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> BUSINESS <input type="checkbox"/> SMALL DISADVANTAGED BUSINESS <input type="checkbox"/>			
VENDOR NAME AND ADDRESS		LABOR SURPLUS AREA	DATE OF AWARD
		YES <input type="checkbox"/> NO <input type="checkbox"/>	
SMALL BUSINESS		SMALL DISADVANTAGED BUSINESS	
NUMBER OF SMALL BUSINESS CONCERNS SOLICITED		NUMBER OF SMALL DISADVANTAGED BUSINESS CONCERNS SOLICITED	
<input type="checkbox"/> 3 or more <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> NONE		<input type="checkbox"/> 3 or more <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> NONE	
REASON FOR NON-SOLICITATION OF ANY SMALL BUSINESS CONCERN, IF SUCH WAS THE CASE:		REASON FOR NON-SOLICITATION OF ANY SMALL DISADVANTAGED BUSINESS CONCERN IF SUCH WAS THE CASE:	
<input type="checkbox"/> I. No Known Small Business <input type="checkbox"/> II. Follow-on Business <input type="checkbox"/> III. Qualified/Approved Source per Raytheon Specification/QVL <input type="checkbox"/> IV. Proprietary Item <input type="checkbox"/> V. Standard Catalogue Item <input type="checkbox"/> VI. Mandatory (Company-wide Agreement) <input type="checkbox"/> VII. Customer Directed Source <input type="checkbox"/> VIII. Other (Explain)		<input type="checkbox"/> I. No Known Small Disadvantaged Business <input type="checkbox"/> II. Follow-on Business <input type="checkbox"/> III. Qualified/Approved Source per Raytheon Specification/QVL <input type="checkbox"/> IV. Proprietary Item <input type="checkbox"/> V. Standard Catalogue Item <input type="checkbox"/> VI. Mandatory (Company-wide Agreement) <input type="checkbox"/> VII. Customer Directed Source <input type="checkbox"/> VIII. Other (Explain)	
REASON FOR SMALL BUSINESS FAILURE TO RECEIVE THE AWARD, IF SUCH WAS THE CASE; WHEN THEY WERE SOLICITED:		REASON FOR SMALL DISADVANTAGED BUSINESS FAILURE TO RECEIVE THE AWARD, IF SUCH WAS THE CASE; WHEN THEY WERE SOLICITED:	
<input type="checkbox"/> I. No Bids Received from Small Business <input type="checkbox"/> II. Small Business not Competitive <input type="checkbox"/> III. Capabilities of Small Business Insufficient to Meet Requirement <input type="checkbox"/> IV. Other (Explain)		<input type="checkbox"/> I. No Bids Received from Small Disadvantaged Business <input type="checkbox"/> II. Small Disadvantaged Business not Competitive <input type="checkbox"/> III. Capabilities of Small Disadvantaged Business Insufficient to Meet Requirement <input type="checkbox"/> IV. Other (Explain)	
DATE OF NOTIFICATION TO CONTRACTING OFFICER (WHERE REQUIRED)			
PRIME CONTRACT NUMBER: _____			
BUYER _____		DATE _____	

MINORITY BUSINESS REFERRAL FORM

TO: Charles S. Warner - Manager, Minority Vendor Relations, Lexington
(copy to Minority Business Liaison Officer)

Please assist in locating a minority source for the following item(s):

PART NO. _____ PART NAME _____

BUSINESS TYPE _____ QUANTITY _____

The following specifications, drawings, etc. are included:

Please reply by _____ if possible.

Buyer

Date

Buyer's Location and Box No.

MINORITY BUSINESS SOLICITATION FORM

ITEM DESCRIPTION _____

NUMBER OF MINORITY FIRMS CONTACTED

TELEPHONE _____

FORMAL _____

NUMBER OF OTHER FIRMS CONTACTED

TELEPHONE _____

FORMAL _____

BUYER _____ DATE _____

EXHIBIT F

LARC EMS REPORT IPGPLIST
DATA AS OF 10/01/97

EQUIPMENT ASSIGNED TO ON SITE CONTRACTORS

PROCESS DATE 10/01/97
PAGE NUMBER

NEW	ECN	OLD	DESCRIPTION MANUFACTURER	SERIAL NO MODEL	USER NAME CUST NAME	ACQ DOCUMENT ACQ DATE	BLDG ROOM	COST
0418448	192939		DISPLAY, DIGITAL, LASER HEWLETT-PACKARD CO	2144A02731 505A		NAS 1 17196 82/10/28	1225 100	6,900
0418450	193785		COMPENSATOR, AUTOMATIC, LASER HEWLETT-PACKARD CO	2044A02565 5510A MODIFIED		L 49216B 83/03/01	1225 100	7,590
0418452	192938		LASER, HELIUM-NEON HEWLETT-PACKARD	1920A02218 5500C		NAS 1 17196 82/10/28	1225 100	7,900
0427432	192943		TRIPOD, LASER HEWLETT-PACKARD CO	NONE 10580A		NAS 1 17196 82/10/28	1225 100	1,400
0532017	191386		PLOTTER, GRAPHICS HEWLETT-PACKARD CO	2210A027233 7470A		L 38896B 82/05/26	1225 100	1,116
G078775			OSCILLOSCOPE, PORTABLE TEKTRONIX INC	B017701 222		L 83924C 90/10/12	1225 201	2,303
0020160			MULTIMETER, DIGITAL BECKMAN INDUSTRIAL CORP	80318064 HD110T		L 44041C 88/09/02	1225 201	197
0020161			MULTIMETER, DIGITAL BECKMAN INDUSTRIAL CORP	80331088 HD110T		L 44041C 88/09/02	1225 201	197
0021309			MULTIMETER, DIGITAL FLUKE JOHN MFG CO INC	51950123 85		L 98906C 91/07/01	1225 201	200
0055678			OSCILLOSCOPE HITACHI MFG CO	803164 V1065		L 36325C 88/05/31	1225 201	1,421
0080327			COMPUTER, MICRO COMPUADD	057172 286		L 50369C 89/02/21	1225 201	1,777
0403824	403824		COMPUTER, MICRO HEWLETT-PACKARD CO	2327A07004 HP85A		L 55807B 83/09/29	1225 201	2,509
0418451	195074		STRAIGHTNESS ADAPTOR, LASER HEWLETT-PACKARD CO	2112A00897 10597A		L 48430B 83/09/29	1225 201	1,810
0418453	195073		INTERFEROMETER, STRAIGHTNESS HEWLETT-PACKARD CO	1332A00803 10690A		L 48430B 83/06/20	1225 201	3,725
0418454	195076		OPTICAL SQUARE, LASER HEWLETT-PACKARD CO	1524A00699 10692B		L 48430B 83/06/20	1225 201	3,020

NEW	E C N	OLD	DESCRIPTION MANUFACTURER	SERIAL NO MODEL	USER NAME CUST NAME	ACQ DOCUMENT ACQ DATE	BLDG ROOM	COST
0424176	182937		RETROREFLECTOR HEWLETT-PACKARD CO	1216A02495 105508		NAS 1 17196 82/10/28	1225 201	1,265.
0777805	192315		INTERFEROMETER, LASR HEWLETT-PACKARD CO	1948A02405 105658		NAS 1 17196 82/10/28	1225 201	3,950.
0777807	192942		BEAM BENDER, LASR HEWLETT-PACKARD CO	1208A01550 10558A		ERROR 83/06/17	1225 201	1,400.
1087075			TESTER, INTERFACE DATACOM TECHNOLOGIES F-DATACOM	9108702 550		L 98898C 91/07/24	1225 201	241.
0055259			OSCILLOSCOPE PHILIPS ELECTRONIC INSTRUMENTS	0002602 PM3267		1-18655F 90/06/26	1225 .107	1,576.
G075038			DISPLAY UNIT COMPUADD	00600867 51086		L 80886C 09/08/13	1225 .201	400.
0038457			RECEIVER, RADO, BEEPER MOTOROLA INC AUTOMOTIVE PROD	724XVW7LQF A03GVC5961AA		L 3824 96/10/24	1225 .201	126.
1257709			PRINTER, ADP MATSUSHITA ELEC INDUS CO	3H5BMG03478 KX-P2180		L 42601D 93/12/27	1225 201	177.
008195			COMPUTER, MICRO EVERGREEN WEIGH INC	16733 EX02804A001		L 54028C 89/04/25	1238A .150	5,960
0847005			PRINTER, ADP MATSUSHITA ELEC INDUS CO	9FKARN87898 KX-P1130		L 61181C 89/08/23	1238A .150	195.
0847408			DISPLAY UNIT DELL COMPUTER COPR F-PC'S LTD	90715247 VC2		L 63194C 89/10/02	1238A .150	400.
1087675			PLOTTER, GRAPHICS HEWLETT-PACKARD CO	2929A35756 7440A		L 1199D 91/08/26	1244 .142	855.
1158939			COMPUTER, MICRO GOVERNMENT MICRO RESOURCES	GM920907030 EXPERT486/33		NAS 1 19468 92/12/15	1244 .142	2,199.
1158945			COMPUTER, MICRO GOVERNMENT MICRO RESOURCES	GM920907015 EXPERT486/33		NAS 1 19468 92/12/15	1244 .142	2,199.
G074966			COMPUTER, MICRO MICROSMART INC	89A-19303 SMART MICRO286		NA90211-1 09/07/26	1244 .142	1,626
0847402			DISPLAY UNIT PC'S LIMITED SEE DEL COMPUTERS	90714980 VC2		L 63201C 09/07/26	1244 .142	400

LARC EMS REPORT IPGPLIST
DATA AS OF 10/01/97

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PAGE NUMBER

NEW	E C N	OLD	DESCRIPTION MANUFACTURER	SERIAL NO MODEL	USER NAME CUST NAME	ACQ DOCUMENT ACQ DATE	BLDG ROOM	COST
1091882			MODEM, COMMUNICATIONS INTERNATIONAL BUSINESS MACHINE	23-00C7263 5883		L 9783D 92/03/23	1244 .142	481.
0038455			RECEIVER, RADI MOTOROLA INC	724XWW7LQH A03GVC5961AA		L 3824 96/10/24		126.
0038458			RECEIVER, RADI MOTOROLA INC	724XWW7LQG A83GVC5961AA		L 3824 96/10/24		126.
0038458			RECEIVER, RADI MOTOROLA INC	724XWW7LQD A03GVC5961AA		L 3824 96/10/24		126.
0038459			RECEIVER, RADI MOTOROLA INC	724XWW7LQC A03GVC5961AA		L 3824 96/10/24		126.
TOTAL								\$58,119

EXHIBIT G

LIST OF GOVERNMENT-FURNISHED PROPERTY

CONTRACT NAS1 -

INVENTORY WORKSHEET - ALL ITEMS

TAG NUMBER	ITEM DESCRIPTION	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	NASA PROPERTY NUMBER	UNIT COST	DATE ACQUIRED
1003	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1023	CABINET, STEEL	GLOBAL	154556TN			192	88/11/00
1049	CABINET, STORAGE	HALLOWELL				82	
1053	CABINET W: SELVES	EDSAL	95654/24C			100	88/12/00
1057	TABLE, OFFICE	ROBERT BROS				130	
1062	BENCH, WORK	HALLOWELL	649M52933			197	
1063	BENCH, WORK	HALLOWELL	649M52933			197	
1074	BENCH, WORK	HALLOWELL	649M52933			197	
1075	BENCH, WORK	HALLOWELL	649M52933			197	
1082	CRIMP TOOL KITS	DANIELS	DMC220		1256869	1754	
1094	BENCH, WORK	HALLOWELL	622W530			354	
1085	TOOL, WIRE WRAP	OK MACH. & TOOL CO	EW8BF	3510		124	
1086	PUNCH/ANVIL SET 15PC	TERIONIC CORP		1500		150	
1092	GUN, ZAP	RAYCHEM	IR500	7038		350	
1098	BENCH, WORK RISER	HALLOWELL	1006010			32	
1099	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1106	PERMATIZER, MINI	RAYCHEM	IR0168	313		632	
1123	TOOL, WIRE WRAP	OK MACH. & TOOL CO	EW8BF	3532		128	
1126	GUN, ZAP	RAYCHEM	IR500	07848		350	
1132	GUN, ZAP	RAYCHEM	IR500	08184		350	
1152	STATICMETER	ANDERSON EFFECTS	DCA1200/1	4234		295	
1182	SLEEVE CUTTER	MCDONALD & CO.	SC202B			360	
1183	PRESS, LEAD FORMING	FANCORT INDUSTRIES	TOF-3			2100	
1188	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1189	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1190	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1191	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1192	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1193	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1194	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1195	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1196	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1197	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1198	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1199	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1200	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1201	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1202	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1203	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1204	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1205	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1206	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1207	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1208	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1209	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1210	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1211	BENCH, WORK	LISTA	01746WS321			922	88/10/00
1216	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1217	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1218	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1219	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1220	CABINET W: DOORS	EDSAL	3000			160	88/12/00
1221	CABINET W: SHELVES	EDSAL	95654/24C			100	88/12/00
1222	CABINET W: SHELVES	EDSAL	95654/24C			100	88/12/00
1261	PERMATIZER	RAYCHEM	TMS208MK11	2644		500	91/10/31

TAG NUMBER	ITEM DESCRIPTION	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	NASA PROPERTY NUMBER	UNIT COST	DATE ACQUIRED
1280	SHELVING, UTILITY	HALLOWELL	56017218			99	
1282	SHELVING, UTILITY	HALLOWELL	56017218			99	
1283	SHELVING, UTILITY	HALLOWELL	56017218			99	
1284	SHELVING, UTILITY	HALLOWELL	56017218			99	
1285	SHELVING, UTILITY	HALLOWELL	56017218			99	
1286	SHELVING, UTILITY	HALLOWELL	56017218			99	
1287	SHELVING, UTILITY	HALLOWELL	56017218			99	
1288	SHELVING, UTILITY	HALLOWELL	56017218			99	
1290	WIRE MESURING UNIT	HYKON	220	42681		93	
1291	DISPENSER, WIRE	GREENLEE	909			294	
1293	SHELVING, UTILITY	F.E.S.	N/A			67	
1294	SHELVING, UTILITY	F.E.S.	N/A			67	
1297	SHELVING, UTILITY	F.E.S.	N/A			67	
1298	SHELVING, UTILITY					28	
1308	CABINET W/ DOORS	HALLOWELL	551018			84	
1317	SHELVING, UTILITY	F.E.S.	N/A			67	
1319	BENCH, WORK	HALLOWELL	649M52933			197	
1322	BENCH, WORK	HALLOWELL	649M52933			197	
1323	BENCH, WORK	HALLOWELL	649M52933			197	
1324	BENCH, WORK	HALLOWELL	649M52933			197	
1325	BENCH, WORK	HALLOWELL	649M52933			197	
1326	BENCH, WORK	HALLOWELL	649M52933			197	
1327	BENCH, WORK	HALLOWELL	649M52933			308	
1328	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1329	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1330	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1331	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1332	BENCH, WORK RISER	HOLLOWELL	1006010			32	
1335	CABINET, STORAGE	COLE	772			183	
1337	SOLDER REMOVER	PACE	SX/301	3258		635	
1349	CABINET W/ DOORS	EDSAL	3000			160	88/12/00
1350	ILLUMINATOR F/O	BAUSCH & LOMB	313050			588	89/04/00
1351	WRIST STRAP TESTER	3M	716	71616896		373	90/01/00
1357	SOLDERING STATION	WELLER	EC2001	A00027960		255	92/03/06
1358	SOLDERING STATION	WELLER	EC2001	A00027958		255	92/03/06
1359	MICROSCOPE	BAUSCH & LOMB	SVC125	2190	1256811	450	
1431	DRAWER UNIT	DAYTON	2W787			124	
1432	DRAWER UNIT	DAYTON	2W787/2			124	
1433	DRAWER UNIT	DAYTON	2W787/2			124	
1434	DRAWER UNIT	DAYTON	2W787/2			124	
1438	DRAWER UNIT	DAYTON	2W787/28			124	
1439	DRAWER UNIT	DAYTON	2W787/28			124	
1453	CABINET, STORAGE	F.E.S.				29	
1456	CABINET, STORAGE	HALLOWELL	815S18			82	
1492	STAND, PRINTER	ALFAX	5159			154	
1525	SHELVING, UTILITY					28	
1527	CABINET, STORAGE	HALLOWELL	815S18			82	
1532	BENCH, WORK RISER	HENRY MANN	1006010			32	
1533	CHEST, TOOL	SEARS	9GT6510C			228	
1537	BENCH, WORK	HALLOWELL	649M52933			197	
1542	TESTER CABLE	INMAC	301	01/00721		279	
1551	POUCH LAMINATOR	IBICO	PL-140IC	1407-0507		199	92/06/09
1605	LADDER STEP	LOUISVILLE	3W142/8			140	
1607	CRIMP TOOL KITS	DANIELS	DMC220		1256870	1754	
1608	CABINET, STORAGE	HALLOWELL	815S18			82	
1609	CHEST, TOOL	SEARS	65258			190	
1613	SPLICING KIT, W/TOOLS	GTE PRODUCTS CANADA	900548/536		1256871	2720	
1614	SLEEVE CUTTER	LITTLE JOE	SC102	9256		130	
1615	TABLE PRINTER	BRADY MARKER	BXMC-1	14253		985	88/08/00
1616	DRAWERS, CABINET	QUALITEX	B310186272			100	88/11/00
1617	TOOL KIT	ASTRO	ATK4003	51800007		716	89/05/00
1621	CABINET, STORAGE	F.E.S.				29	
1626	MICROSCOPE	BAUSCH & LOMB	SVC125			588	
1630	SOLDER REMOVER	PACE	PPS5	7681		475	
1639	DESOLDERING SYSTEM	PACE	MBT210	4102		924	90/10/25

TAG NUMBER	ITEM DESCRIPTION	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	NASA PROPERTY NUMBER	UNIT COST	DATE ACQUIRED
1647	TABLE, OFFICE					120	
1663	CABINET, STORAGE	DAYTON	N/A			35	
1669	CABINET	HON	1491663			284	09/09/17
1689	TABLE, CONFERENCE	STEELCASE				206	
1691	CABINET, STORAGE	HALLOWELL				82	
1692	CABINET, STORAGE	HALLOWELL	815S18			82	
1721	LADDER, FIBERGLASS	NOLAND	1224			220	
1723	LIFT, HYDRAULIC	PRESTO ELECTRIC CO	PS262	0186	1256872	1978	
1724	BOOTH, PAINT/SPRAY	ALEMITE	3551T	V2		743	
1731	CABINET SAFETY	JUSTRITE	25720			448	92/04/02
1733	MACHINE, SANDBLAST	ZERO	506865381	14542	1256868	2246	
1736	ROTO BOR (10PCS)	JACY ENGINEERING	RBA			341	
1737	ROTO BOR (8PCS)	JACY ENGINEERING CO	RBAD			447	
1738	BENCH, WORK	HALLOWELL	649M52933			197	
1739	DRILL PRESS	DUMORE	37021	83233084		690	
1740	DRILL PRESS	DUMORE	37021	83233086		690	
1742	DRILL PRESS	DUMORE	37021	83233088		690	
1743	SANDER	POWERMATIC	30A	430A003		869	
1744	BANDSAW	HOUDAILLE POWERMTIC	87	487375	1256855	1956	
1745	BRAKE, METAL	PEXTO	PX24A	375		690	
1748	BENCH, WORK	HALLOWELL	605H53033			237	
1749	BANDSAW WELDER	POWERMATIC	600	599118		451	
1751	BENCH, WORK	HALLOWELL				402	
1752	BENCH, WORK	HALLOWELL				321	
1753	BENCH, WORK	HALLOWELL				354	
1765	COUNTER BOR SET	CLEVELAND	39			527	
1770	CABINET, STORAGE	DAYTON				20	
1772	DRAWER UNIT	HALLOWELL				57	
1783	LIGHT, EMERGENCY	DUALITE	AS80BC	8304		231	
1794	CABINET, STORGE	F. E. S.				29	
1796	PUMP COMPRESSOR	GRAINGER WW INC	Z493		12568856	1165	88/12/00
2056	BENCH, WORK	HALLOWELL	605H6633			233	
2100	FLAMMABLE, CABINET	JUSTRITE	25450			655	93/01/01
2102	HAZ WSTE CABINET	JUSTRITE	61155			734	93/01/01
2106	ILLUMINATOR F/O	BAUSCH & LOMB	313050			588	93/01/01
2108	METAL RACK, WIRE					50	
2110	SHELVING, UTILITY	F. E. S.				49	93/01/01
2111	SHELVING, UTILITY	F. E. S.				49	93/01/01
2112	SHELVING, UTILITY	F. E. S.				49	93/01/01
2113	SHELVING, UTILITY	F. E. S.				49	93/01/01
2114	SHELVING, UTILITY	F. E. S.				49	93/01/01
2142	PRESS, LEVER	POPER WHITNEY	34	1086 11 92	1158910	2305	4/08/93
2149	FIBER OPTIC TEST KIT	NOYSE	0LS-1-2			1495	93/10/15
2168	LIT NING WORKSTATION	SIRCO	4602WA			324	94/03/04
2174	250MB TAPE BACKUP	COLORADO TRAKKER	JT20C9	189008TA		369	94/04/27
2192	LABEL PRINTER	BROTHER	PT 12	E39325165		140	94/06/28
2240	WORKBENCH	VIDMAR	CCT			409	95/09/15
2242	FIRE PROOF LOCKER	JUSTRITE	4T196			600	95/09/15
2243	FIRE PROOF LOCKER	JUSTRITE	4T196			600	95/09/15
2244	OVEN	BLUE M	POM71406F	P38 25098	0549823	5797	95/09/15
2246	RESISTIVITY METER	ACL INC	499375	A2		150	95/09/15
2247	STRAP TESTER					124	95/09/15
2248	STATIC SENSOR	3M				522	95/09/15
2252	MICROSCOPE	CAMBRIDGE	Z00M4		1091713	1490	95/09/15
2253	INSPECTION LIGHT	WALDMAN	STK215FN			350	95/09/15
2256	LARGE FLAT FILE CAB	STANLEY/MIDMAR				380	95/09/15
2257	VINYL CUTTER	IOLINE	STUDIO 8	M40941803	1262008	7120	95/09/15
2258	WORK BENCH	PARENT				233	95/09/15
2259	ROLLER CUTTER	ALVIN	30			689	95/09/15
2260	WORK BENCH 3PARTS	STANLEY/MIDMAR				409	95/09/15
2261	WORK BENCH 3PARTS	STANLEY/MIDMAR				409	95/09/15
2263	HOLDING RACK	EDSAL				159	95/09/15
2264	LIGHT TABLE	GRADCO				224	95/09/15
2268	BENCH TOP OVEN	FISHER	349	645		1995	95/09/15
2287	PRINTING TABLE	MICROJUST	2000UA	910		2904	95/09/15

TAG NUMBER	ITEM DESCRIPTION	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	NASA PROPERTY NUMBER	UNIT COST	DATE ACQUIRED
2268	GROUNDED PAINT LOCKE	EAGLE	1947			385	95/09/15
2269	WORK BENCH 3PARTS	STANLEY/VIDMAR				509	95/09/15
2270	MONITOR	DESK TOP DISPLAYS	DDU 4128N	LN 0036	1261444	400	95/09/15
2271	FILM PLOTTER	GERBER	3244	360	061527	42570	95/09/15
2273	CHEMICAL CABINET					100	95/09/15
2274	MONITOR, PLOTTER	LINK	MC2	QOV150062	061528	5100	95/09/15
2275	PUNCH, FILM					100	95/09/15
2276	TRIPLE BEAM SCALE	WELCH				107	95/09/15
2277	TABLE TOP CABINET	EDSAL				159	95/09/15
2278	HALIDE EXP.UNIT	DOUTHITT	3002S			4950	95/09/15
2279	SHELF UNIT					28	95/09/15
2280	DRYING RACK					500	95/09/15
2281	FILM PROCESSOR	COMPUGRAPHICS	66	19 66A0859	1156296	7200	95/09/15
2282	COPY CAMERA	NUARC	SS782024	3LU H92001	1156352	9896	95/09/15
2283	STORAGE CABINET	EDSAL				159	95/09/15
2284	ZIP PROCESSOR	METAL PHOTO	14 7	14 7 390		1890	95/09/15
2285	OVEN	FISHER	ISOTEMP349			1995	95/09/15
2286	EXPOSURE UNIT	NUARC	26 1K8LC	8LC D90067	G077373	1400	95/09/15
2287	MERLIN	VARITRONICS	ELITE 2000	JH10222371	1092871	1865	95/09/15
2288	DRILL PRESS	DUMORE	37 021	8923 2445		690	95/09/15
2292	SEALING TANK	METAL PHOTO	2024PST	2024ST571	1432194	1150	95/09/15
2294	CONTACT PRINTER	NUARC	KB8	KB8 G91 02	1086286	1475	95/09/15
2295	FILM CABINET	VIDMAR	4421		1084067	1928	95/09/15
2296	TIMER/CONTOLLER	NUARC				200	95/09/15
2297	RINSE RECIRCULATOR	AGFA	G29F0501	F2900176	1156201	500	95/09/15
2298	DEHUMIDIFIER	WESTINGHOUSE	ED308K6	UNO4201900		285	95/09/15
2299	LIGHT TABLE	SSTE	2024C3LU	3LU H9201		224	95/09/15
2300	METAL SHEAR	DI ACRU	4	EB3183		100	95/09/15
2301	ENGRAVING TABLE	NEW HERMES	V900EP	800150/43	1255778	15807	95/09/15
2302	ENGRAVING TABLE	NEW HERMES	V700EP	400872/44	1261023	11851	95/09/15
2303	CABINET	VIDMAR				750	95/09/15
2304	CABINET	VIDMAR				750	95/09/15
2306	CABINET	VIDMAR				409	95/09/15
2307	CABINET	VIDMAR				409	95/09/15
2308	CABINET	VIDMAR				409	95/09/15
2309	CABINET	VIDMAR				409	95/09/15
2314	VACUUM SYSTEM	GAST	R1102C 14	493		468	95/09/15
2315	VACUUM SYSTEM	GAST	R1102C 14	890		468	95/09/15
2316	VACUUM SYSTEM	GST	R1102C 14	1293		468	95/09/15
2317	SAW	NEW HERMES	100184			1500	95/09/15
2318	SHEAR METAL	NEW HERMES				350	95/09/15
2319	SHEAR PLASTIC	NEW HERMES				350	95/09/15
2320	DRILL PRESS	DELTA	R9006			175	95/09/15
2321	BEVELER	NEW HERMES	B4	B4 100335		500	95/09/15
2322	BEVELER	NEW HERMES	B6	B6 910613		500	95/09/15
2323	CUTTER, MAXI PRESS	ABILITY PLASTIC	MP9353			275	95/09/15
2324	CORNER ROUNDER	ACCU CUTTER				250	95/09/15
2325	DRILL PORTABLE	DEWALT	37299			175	95/09/15
2327	VACUUM CLEANER	MINUTEMAN	C82904/6	83500073		200	95/09/15
2328	VACUUM CLEANER	ADVACE	PA500	153056		150	95/09/15
2329	VAC EXPOSURE FRAME	NAZ DAR	SPE0616			995	95/09/15
2331	WASHOUT SINK					100	95/09/15
2332	PRESSURE WASHER	AMER. SCREEN	K073			559	95/09/15
2333	PUMP W/CART	AIR	SPE	0522V103G		200	95/09/15
2335	FABRIC STRETCHER	DIAMOND CHASE				121	95/09/15
2336	METER	NEWMAN	ST METER	1E		395	95/09/15
2337	MICROSCOPE	BAUSCH & LAUMB	32 26 94	794	0472833	754	95/09/15
2338	TABLE TOP SCALE	FISHER	XD 8KD	0056695	803558	1425	95/09/15
2339	OVEN, TABLE TOP	FISHER	750G	10700028	1086388	1995	95/09/15
2340	VACUUM PUMP	WELCH	1402	132387	1158092	1435	95/09/15
2342	BEL JAR & GAUGE	DOW/TELEDYNE	VT 4	1310		1609	95/09/15
2343	INSPECTION STATION	ULTRA VIOLET PRO	CX 50			1315	95/09/15
2344	HYGROMETER	BACHARACH	22 7059			100	95/09/15
2346	SCALE, TABLE TOP	FISHER	XD 8KD	1698	G078925	1696	95/09/15
2347	INSPECTION LIGHT	WALDMANN LIGHT	STK215FN			350	95/09/15

TAG NUMBER	ITEM DESCRIPTION	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	NASA PROPERTY NUMBER	UNIT COST	DATE ACQUIRED
2348	ANALYZER	IND. SCIENCE	TMX410	9404058 16	0803418	1559	95/09/15
2349	SURFACE PLATE	DIGIMATIC	2010			279	95/09/15
2350	CALIPERS	DIGAMATIC	CD 12P	7006878		529	95/09/15
2353	STORAGE CABINET					159	95/09/15
2354	FILE CABINET	SUPREME				100	95/09/15
2355	DRAFTING TABLE	COMMANDO	ALVIN			500	95/12/04
2356	REVOLVING DOOR	ARISTO				2500	95/12/04
2357	CABINET	EDSAL				159	95/12/04
2423	COMPOSING MACH	JCM	ELITE2000	JH10925367	1156210	1865	96/11/01
2451	8" LADDER	LOUISVILLE				274	
TOTAL COUNT	260					241071	

NOTE: Items without an acquisition date were purchased before January 1988, and there are no records of when these items were acquired.

EXHIBIT H

EQUIPMENT LIST 1REPRESENTATIVE LIST OF COMPUTER NUMERICAL CONTROL (CNC) & CONVENTIONAL MACHINERY AND EQUIPMENT TO BE MAINTAINED BY THE CONTRACTOR

{ } = Machine age if known

**NASA LaRC Bldg 1225, 7 Langley Boulevard
Advanced Machining Development Laboratory**

CNC Machines

Bridgeport Milling machine (2 ea) {2, 1}
Fadal 4020 HT - Vertical Machining Center {5}
Fadal 8030 HT - Vertical Machining Center {4}
Giddings & Lewis Horizontal DiMill {22}
Japax Wire Burner, Electrical Discharge Machine {6}
P&W BG-71/Keller Contour Mill {26}
Sundstrand Omnimil OM3 {22}
Takisawa Lathe {1}
Wasino LJ 103-M Lathe (2 ea) {9, 12}

Controller Type

Proto-Trak M3-2
Fadal CNC-88
Fadal CNC-88
Allen Bradley 9230
Manufacturer control
Allen Bradley 8400H MP
LM-2/MM Micro Swinc
Fanuc 10T
Fanuc 10T

Conventional Machinery

Agie Die Sinker, Electrical Discharge Machine
Bridgeport Milling Machine (10 ea)

Cordax 100 Measurement Machine
Cordax 7000 Measurement Machine
DeVlieg 43H-48 Spiramatic JigMil
Elox Die Sinker, Electrical Discharge Machine
Lucas Precision Mill
Monarch Lathe, w/tube type spindle drive (4 ea)
Monarch Lathe, w/solid state spindle drive (5 ea)

Controller and/or Readout Type

Manufacturer control
10 w/SONY digital readout system & 6 w/variable speed X-axis
Manufacturer readout system
Manufacturer readout system
SONY digital readout system
Manufacturer control
SONY digital readout system
Manufacturer control
Manufacturer control 1 w/SONY digital readout system
SONY digital readout system
SONY digital readout system
N/A
SONY digital readout system
SONY digital readout system

P&W 1A Jig Borer
P&W 4E Jig Borer
Precision Drill, Mountable (2 ea)
Sheffield 1520 Jig Borer
Tree Mill (4 ea)

**NASA LaRC Bldg 1232A, 6 Langley Boulevard
Space and Facility Support Laboratory**

Conventional Machinery

Clausing Lathe
Bridgeport Milling Machine

LVD Power Brake

Controller and/or Readout Type

Manufacturer readout system
SONY digital readout system with variable speed X-axis
axis
Manufacturer control

**NASA LaRC Bldg 1237C, 1C South Marvin Street
Glass Blowing Laboratory**

CNC Machinery

Bridgeport Milling Machine {5}

Santech Instruments Milling Machine {3}

**NASA LaRC Bldg 1238, 1 East Durand Road
Electronics Technology Laboratory**

Conventional Machinery

Bridgeport Milling Machine
Monarch Lathe

**NASA LaRC Bldg 1238B, 3 East Durand Road
Composite and Model Development Laboratory**

CNC Machinery

Fadal 6030 HT - Vertical Milling Center {2}
Okamoto 3000 - Horizontal Milling Machine {15}
Supermax YCM-60 - Vertical Milling Center {11}

Conventional Machinery

Onsrud overhead router
Bridgeport Milling Machine
Gorton Mastermil Milling Machine
Pathe Single Needle/Fixed Frame Quilting Machine

**NASA LaRC Bldg 1283, 1 Lewis Loop
Engineering and Fabrication Laboratory**

CNC Machinery

Bostomatic - Vertical Milling Center {24}
Fadal 6030 HT - Vertical Milling Center {6}
Hillyer - Fixed Bridge Milling Center {16}
LeBlond-Knight Lathe {15}

Conventional Machinery

Bridgeport Milling Machine (2 ea)

Cordax 3000 Measurement Machine
Elox Die Sinker - Electrical Discharge Machine
Meuser - Horizontal Milling Machine
Monarch Lathe (2 ea)
P&W Jig Borer 2A
Tree Milling Machine

Controller and/or Readout Type

Incontrol Micromotion control and readout system
Centroid control and readout

Controller and/or Readout Type

Acu-Rite III digital readout system
Manual scale readout system

Controller and/or Readout Type

Fadal CNC-88
Fanuc 6M-A
Allen Bradley 8400 H MP

Controller and/or Readout Type

SONY digital readout system
Trak 103 digital readout system
SONY digital readout system
SONY digital readout system

Controller and/or Readout Type

Allen Bradley 8400H MP
Fadal CNC-88
Allen Bradley 8400G MP
General Electric 1050

Controller and/or Readout Type

2 w/SONY digital readout system &
1 w/ Variable speed XY & Z axis & 1 w/Variable
speed X axis only
Manufacturer readout system
Manufacturer control
SONY digital readout system
Tube controlled spindle drive
SONY digital readout system
SONY digital readout system & Variable speed X & Z
axis

EQUIPMENT LIST 2

**REPRESENTATIVE LIST OF COMPUTER NUMERICAL CONTROL (CNC)
& CONVENTIONAL MACHINERY AND EQUIPMENT TO BE
CALIBRATED BY THE CONTRACTOR**

**NASA LaRC Bldg 1238B, 3 East Durand Road
Composite and Model Development Laboratory**

Okamoto HMC 3000 Horizontal CNC Mill
YCI/YCM-60 Supermax Vertical CNC Mill
Fadal VMC 6030 Vertical Machining Center - 5 Axis

**NASA LaRC Bldg 1283, 1 Lewis Loop
Engineering and Fabrication Laboratory**

Bostomatic Vertical CNC Mill
Fadal VMC 6030 Vertical Machining Center
Hillyer Fixed Bridge Mill
LeBlond-Knight CNC Lathe
Mauser Conventional Mill
Pratt & Whitney 2A Conventional Jig Borer

**NASA LaRC Bldg 1225, 7 Langley Boulevard
Advanced Machining Development Laboratory**

DeVlieg 43H-48 Spiramatic JigMil
Fadal VMC 4020 Vertical Machining Center
Fadal VMC 8030 Vertical Machining Center
Giddings & Lewis DiMil Horizontal CNC Mil
Japax LDM-S Wire EDM Machine
K&T/Milwaukee-Matic 1015 Manufacturing Center
Lucas Precision 441B 48 Mil
Pratt & Whitney 4E Conventional Jig Borer
P&W BD-71/Keller CNC Contour Milling Machine
Sheffield 1520 Conventional Jig Borer
Sundstrand Omnimil OM3 CNC Mil
Wasino LJ 103-M CNC Lathe (New)
Wasino LJ 103-M CNC Lathe (Old)
DeVlieg 3B
Tasikawa CNC Lathe
Pratt & Whitney Jig Borer 1-1/2 B

**NASA LaRC Bldg 1232A, 6 Langley Boulevard
Space and Facility Support Laboratory**

Waterjet Model 72120

Note: *Approximately 18-20 of the listed machines are calibrated each year*

EQUIPMENT LIST 3**REPRESENTATIVE LIST OF COMPUTER NUMERICAL CONTROL (CNC)
& CONVENTIONAL MACHINERY AND EQUIPMENT FOR WHICH THE
CONTRACTOR SHALL TRACK & REPORT "DOWN TIME"****NASA LaRC Bldg 1238B, 3 East Durand Road
Composite and Model Development Laboratory**

Okamoto HMC 3000 Horizontal CNC Mill
 YCI/YCM-60 Supermax Vertical CNC Mill
 Fadal VMC 6030 Vertical Machining Center - 5 Axis

**NASA LaRC Bldg 1283, 1 Lewis Loop
Engineering and Fabrication Laboratory**

Fadal VMC 6030 Vertical Machining Center
 Hillyer Fixed Bridge Mill
 LeBlond-Knight CNC Lathe
 Pratt & Whitney 2A Conventional Jig Borer

**NASA LaRC Bldg 1225, 7 Langley Boulevard
Advanced Machining Development Laboratory**

DeVlieg 43H-48 Spiramatic JigMil
 Fadal VMC 4020 Vertical Machining Center
 Fadal VMC 8030 Vertical Machining Center
 Giddings & Lewis DiMil Horizontal CNC Mill
 Japax LDM-S Wire EDM Machine
 Pratt & Whitney 4E Conventional Jig Borer
 P&W BD-71/Keller CNC Contour Milling Machine
 Sheffield 1520 Conventional Jig Borer
 Sundstrand Omnimil OM3 CNC Mill
 Wasino LJ 103-M CNC Lathe (New)
 Wasino LJ 103-M CNC Lathe (Old)
 Tasikawa CNC Lathe

**NASA LaRC Bldg 1237C, 1C South Marvin Street
Glass Blowing Laboratory**

Bridgeport Milling Machine
 Santech Instruments Milling Machine

EXHIBIT I

126 (NAS1-##/##)

TO: NASA Langley Research Center
126/Contract Specialist
Hampton, VA 23681-0001

FROM: (Insert Company Name)

SUBJECT: Monthly Progress Report for Socioeconomic Goals -- NAS1-_____ for Period _____
month/day/year

- 10a. Small Business Concerns: \$ _____
(include SDB, WOSB, HBCU/MI)
- 10b. Large Business Concerns: \$ _____
- 10c. Total (sum of Sm & Lg Bus): \$ _____
- 11. Small Disadv. Bus. Concerns: \$ _____
(include HBCU/MI)
- 12. Woman-Owned Small Bus.: \$ _____
(include as part of 10a & 11 above)
- Historically Black Colleges/Univ.: \$ _____
and/or Minority Institutions (include as
part of 10a & 11 above)

You shall propose your approach for satisfying the Government's technical requirements as set forth in Section C, Statement of Work. Your technical approach shall be structured to specifically address the seven (7) Qualitative Evaluation Criteria (QEC) listed below. The QEC's will be used by the Government to evaluate the qualitative merit of your technical proposal.