



**PART I - THE SCHEDULE  
SECTION B  
SUPPLIES OR SERVICES AND PRICES/COSTS**

**B-1 SUPPLIES/SERVICES AND COSTS**

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall conduct research and development in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>TOTAL ESTIMATED COST PLUS FIXED FEE</b>		\$	\$	\$

\* *Not Separately Priced*

**NOTICE TO OFFERORS:** In addition to inserting the estimated cost and fixed fee for the base year above, the estimated cost and fixed fee for each optional extension of the term of the contract are to be inserted in Section H.

**SECTION C  
DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK**

**C-1 STATEMENT OF WORK**

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

**C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS**

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 08 October 2002, which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

**SECTION E  
INSPECTION AND ACCEPTANCE**

**E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE**

**FAR CLAUSE    TITLE**

52.246-9        -    Inspection Of Research And Development (Short Form) (APR 1984)

**DFARS CLAUSE    TITLE**

252.246-7000   -    Material Inspection And Receiving Report (DEC 1991)

**E-2 INSPECTION AND ACCEPTANCE**

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

**SECTION F  
DELIVERIES OR PERFORMANCE**

**F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:**

**FAR CLAUSE    TITLE**

52.242-15       -    Stop-Work Order (AUG 1989) - Alternate I (APR 1984)

52.247-34       -    F.O.B. Destination (NOV 1991)

**F-2 PERIOD AND PLACE OF PERFORMANCE**

- (a) The term of this contract is from date of contract award through 12 months thereafter, with four (4) options that will extend the period of performance for an additional 12 months each, if exercised.
- (b) The principal place of performance of this contract shall be at the contractor's facility.

**F-3 PLACE OF DELIVERY - FOB DESTINATION**

The contractor shall deliver supplies, all transportation charges paid, to destination in accordance with the clause in Section F of the Schedule titled FAR 52.247-34 FOB Destination (NOV 1991).

Receiving Officer  
Naval Research Laboratory  
Contract Number  
ATTN: \*  
CODE: \*  
LOCATION: \*  
Bldg. 49  
4555 Overlook Avenue, SW  
Washington DC 20375-5320

(\* To be filled in at time of award.)

**SECTION G  
CONTRACT ADMINISTRATION DATA**

**G-1 PROCURING OFFICE REPRESENTATIVE**

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Security Matters- Contracting Officer for Security, Code 1221, (202) 767-2240, DSN 297-2240, email [security-group@nrl.navy.mil](mailto:security-group@nrl.navy.mil)

Safety Matters- Head Safety Branch, Code 3540, (202) 767-2232, DSN 297-2232, email [safety@nrl.navy.mil](mailto:safety@nrl.navy.mil)

Patent Matters-Associate Counsel (Intellectual Property), Code 1008.2, (202) 404-1552, DSN 297-1552, email [patents@nrl.navy.mil](mailto:patents@nrl.navy.mil)

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email [publicaffairs@nrl.navy.mil](mailto:publicaffairs@nrl.navy.mil)

**G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS**

\* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

( \* To be completed at time of award)

**G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)**

- (a) For the purposes of this clause, technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
  - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
- (1) Assign additional work under the contract;
  - (2) Direct a change as defined in the contract clause entitled "Changes";
  - (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
  - (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
- (1) Date of TDM,
  - (2) Contract Number,
  - (3) Reference to the relevant portion or item in the Statement of Work,
  - (4) The specific technical direction or clarification, and
  - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.
- (g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

**G-4 SUBCONTRACTORS/CONSULTANTS**

(a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).

(b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name	Estimated Cost
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*(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)*

**G-5 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992))**

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to the contract auditor at the following address:

*(To be completed at time of award)*

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)
- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number (ACRN)
- (4) Payment terms
- (5) Procuring activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract
- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided

- (e) A DD Form 250, "Material Inspection and Receiving Report",  
 is required with each invoice submittal.  
 is required only with the final invoice.  
 is not required.
- (f) A Certificate of Performance  
 shall be provided with each invoice submittal.  
 is not required.
- (g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.
- (h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

#### **G-6 INCREMENTAL FUNDING**

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$\* and it is estimated that this amount is sufficient for contract performance through \* .

*(\*this provision will be included and completed at time of award, if applicable)*

#### **G-7 INFORMATIONAL SUBLINE ITEMS**

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

#### **G-8 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

Payments shall be made in accordance with the ACRN(s) cited on the contractor's invoice. The Contractor may contact the COR regarding which ACRN(s) to cite on an invoice.

### **SECTION H SPECIAL CONTRACT REQUIREMENTS**

#### **H-1 TYPE OF CONTRACT**

This is a \*

*(\*To be completed at time of award)*

**H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)**

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death, or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: \*

*(\*To be completed at time of award)*

Labor Category	First/M/Last Name
Project Manager	
Test Engineer	
Program Analyst	
Computer Scientist	

**H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)**

- (a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 24,170 total hours for the basic award and 24,170 hours of direct labor for each option period, if exercised. A breakdown of labor categories and hours is set forth in paragraph (k) below.
- (b) The level of effort for this contract shall be expended at an average rate of 2,014 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.
- (c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.
- (d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.
- (e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.
- (f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fixed Fee} \times \frac{(\text{Required LOE Hours} - \text{Expended LOE Hours})}{\text{Required LOE Hours}}$$

or (ii) subject to the provisions of the clause of this contract entitled "Limitation of Cost," require the Contractor to continue to perform the work until the total number of hours of direct labor specified in paragraph (a) shall have been expended, at no increase in the fixed fee of this contract.

(g) In the event the government fails to fully fund the contract in a timely manner, the term of the contract may be extended accordingly with no change to cost or fee. If the government fails to fully fund the contract, the fee will be adjusted in direct proportion to that effort which was performed.

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

- (i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort, which was estimated by the government or proposed by the Contractor.
- (j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses as incorporated herein applies to this contract.
- (k) The anticipated breakdown by labor category of the total level of effort is as follows:

<b>Labor Category</b>	<b>Basic Award and each Option, if exercised</b>
Project Manager	960
Senior Systems Engineer	450
Electronics Engineer	960
Computer Scientist	4000
Test Engineer	3000
Environmental Test Engineer	1000
Electronic Technician	900
Engineering Model Maker	300
Program Analyst	3000
Inventory Manager	1920
Industrial Service Specialist	1920
Production Controller	1920
Equipment Specialist	1920
Technical Reliability Specialist	1920
<b>Total</b>	<b>24170</b>

#### **H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 02)**

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at <http://www.niso.org/standards/index.html> . NISO standards can also be purchased in hardcopy form from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904 ax: 301-206-9789.]

#### **H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)**

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

**H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT**

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

**First Option**

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

**Second Option**

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

**Third Option**

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

**Fourth Option**

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

**H-7 OPTION(S)**

The Government may require performance of the numbered line items identified in the Schedule as optional items at the price stated in the Schedule. The Contracting Officer may unilaterally exercise the option by written notice to the Contractor anytime prior to the current completion date of the contract. . The Government may elect to exercise its option by issuing a new contract for the option. Except as provided in the schedule, the new contract will have the same terms and conditions as this contract including any unexercised options.

**H-8 ON-SITE USE OF GOVERNMENT PROPERTY**

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

**H-9 REPRESENTATIONS AND CERTIFICATIONS**

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

**H-10 PROTECTION OF HUMAN SUBJECTS**

It is understood and agreed that in the performance of this contract the Contractor shall comply, as appropriate, with the provisions of the following directives/regulations:

- (a) Department of Defense, Title 32, Code of Federal Regulations, Part 219 (32 CFR 219), "Protection of Human Subjects" and "Protection of Human Subjects in DoD Supported Research", August 1991;
- (b) DHHS Regulations, "Protection of Human Subjects" (45 Code of Federal Regulations Part 46) of 19 August 1991; and
- (c) DoD Directive 3216.2, "Protection of Human Subjects in DoD Supported Research", 7 January 1983, as amended.

**H-11 CONFLICT OF INTEREST**

The Contractor shall not have a vested interest in any aspect of General Purpose Electronic Test Equipment. Specifically, the Contractor shall not produce, market, sell or distribute General Purpose Electronic Test Equipment (GPETE), nor shall the contractor represent a manufacturer in any capacity related to GPETE or that might appear to be related to GPETE, during the term of this contract. Contractor employees may be required to sign nondisclosure agreements.

**H-12 CONTRACTOR FACILITY**

The Contractor shall maintain a facility not more than 50 miles outside the Naval Research Laboratory, Washington, DC. The office space must include a meeting area with a capacity for at least 20 people, and a laboratory suitable for testing or fabrication of prototype electronic equipment such as that described in the statement of work. The proximity requirement is based on the sequential nature of testing that requires frequent transport between NRL and the Contractor's facility.

**PART II - CONTRACT CLAUSES  
SECTION I  
CONTRACT CLAUSES**

**I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

**a. FEDERAL ACQUISITION REGULATION CLAUSES****FAR CLAUSE    TITLE**

52.202-1	-	Definitions (DEC 2001)
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	-	Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6	-	Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	-	Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	-	Audit And Records-Negotiation (JUN 1999)
52.215-8	-	Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-10	-	Price Reduction For Defective Cost Or Pricing Data (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	-	Pension Adjustments And Asset Reversions (DEC 1998)
52.215-17	-	Waiver Of Facilities Capital Cost Of Money (OCT 1997)
		<i>( will be included if the successful offeror does not propose facilities capital cost of money)</i>

- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement 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) - Alternate IV (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (FEB 2002)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUL 1996)
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-19 - Child Labor – Cooperation With Authorities And Remedies (SEP 2002)
- 52.222-20 - Walsh-Healey Public Contracts Act (DEC 1996)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-29 - Notification Of Visa Denial (FEB 1999)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-8 - Duty-Free Entry (FEB 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
(will be included if the successful offeror is a small business or a non-profit organization)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (NOV 1999)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)

- 52.232-25 - Prompt Payment (FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (JUL 2002)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items (MAY 2002)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
- 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)( fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

**b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES**

<u>DFARS CLAUSE</u>	<u>TITLE</u>
252.201-7000	- Contracting Officer's Representative (DEC 1991)
252.203-7001	- Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
252.203-7002	- Display Of DoD Hotline Poster (DEC 1991)
252.204-7000	- Disclosure Of Information (DEC 1991)
252.204-7003	- Control Of Government Personnel Work Product (APR 1992)
252.204-7004	- Required Central Contractor Registration (NOV 2001)
252.204-7005	- Oral Attestation Of Security Responsibilities (NOV 2001)
252.205-7000	- Provision Of Information To Cooperative Agreement Holders (DEC 1991)
252.209-7000	- Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
252.209-7004	- Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
252.215-7000	- Pricing Adjustments (DEC 1991)
252.223-7001	- Hazard Warning Labels (DEC 1991)
252.223-7004	- Drug-Free Work Force (SEP 1988)

- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (MAR 1998)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7009 - Duty-Free Entry – Qualifying Country Supplies (End Products and Components (AUG 2000)
- 252.225-7012 - Preference For Certain Domestic Commodities (APR 2002)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (DEC 2000)
- 252.225-7021 - Trade Agreements (OCT 2002)
- 252.225-7025 - Restriction On Acquisition Of Forgings (JUN 1997)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (JUN 2000)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7027 - Deferred Ordering Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7005 - Reimbursement Of Subcontractor Advance Payment—DoD Pilot Mentor-Protégé Program (SEP 2001)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)  
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)

252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

**I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)**

- (a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –
- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
  - (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

**WARNING**

Contains (or manufactured with, if applicable) \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\*The Contractor shall insert the name of the substance(s).

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

- J-1** Attachment (1) - Statement Of Work - 10 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 6 - Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 035-02 Dated May 29, 2002, 2 - Pages.
- J-3** Attachment (3) – Personnel Qualifications, 5 - Pages.
- J-4** Attachment (4) – Accounting and Appropriation Data- 1 page. \*
- (\* To be included at time of award)

**PART IV - REPRESENTATIONS AND INSTRUCTIONS**  
**SECTION - K**  
**REPRESENTATIONS, CERTIFICATIONS**  
**AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

**K-1 Representations, Certifications, and Other Statements of Offerors or Respondents**

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at [HTTP://HERON.NRL.NAVY.MIL/CONTRACTS/REPS&CERTS.HTM](http://heron.nrl.navy.mil/contracts/reps&certs.htm)

Use Representations and Certifications: A

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)**

The fill in information is as follows:

The NAICS code for this acquisition is 541710

The small business size standard is 500 employees.

**SECTION L**  
**INSTRUCTIONS CONDITIONS AND NOTICES**  
**TO OFFERORS OR RESPONDENTS**

**L-1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)**

This solicitation incorporates one or more solicitation provisions 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. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

**FAR CLAUSE    TITLE**

52.204-6	-	Data Universal Numbering System (DUNS) Number (JUNE 1999)
52.215-1	-	Instructions To Offerors- Competitive Acquisition (MAY 2001)
52.215-5	-	Facsimile Proposals (OCT 1997)
		Paragraph (c) is completed as follows: (202) 767-3720 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to <a href="mailto:sandy@contracts.nrl.navy.mil">sandy@contracts.nrl.navy.mil</a> (primary) or <a href="mailto:bays@contracts.nrl.navy.mil">bays@contracts.nrl.navy.mil</a> (alternate) in either Microsoft Word (version 97 or earlier) or pdf format.
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)

52.237-10 - Identification Of Uncompensated Overtime (OCT 1997)

**DFAR CLAUSE TITLE**

252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country  
(MAR 1998)

**L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS**

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors- Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or delivery services shall be addressed to:

Contracting Officer, ATTN: Code 3220.MS  
Naval Research Laboratory(NRL)  
4555 Overlook Avenue, S.W.  
Washington, D.C. 20375

Solicitation/RFP No. – N00173-02-R-MS08

Closing Date: January 7, 2003 Time 4:00 P.M. EST

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/aboutdc.htm>

If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

**L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)**

Any contract awarded as a result of this solicitation will be a  DX rated order;  DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

**L-4 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)**

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below
- (c) See Section L-13.

**L-5 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)**

The Government contemplates award of a Cost Plus Fixed Fee term type contract resulting from this solicitation.

**L-6 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

**L-7 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)**

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—

(1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

(2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

(b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.

(c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of  
Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data Computer Software to be Furnished With Restrictions*	Basis for Assertion **	Asserted Rights Category ***	Name of Person Asserting Restrictions****
(List)*****	(List)	(List)	(List)

\* For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.

\*\* Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

\*\*\* Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

\*\*\*\* Corporation, individual, or other person, as appropriate.

\*\*\*\*\* Enter "none" when all data or software will be submitted without restrictions.

Date \_\_\_\_\_

Printed Name and Title \_\_\_\_\_

Signature \_\_\_\_\_

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

**L-8 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)**

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;

- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

#### **L-9 CONFLICT OF INTEREST**

The Statement of Work requires technical advice to the Government involving development of procurement specification for NAVY test instruments and evaluation of technical proposals and bid samples during the award process and will draft salient characteristics for Navy instrument procurements. This technical advice must be impartial and objective. Therefore, the performing contractor must be free of relationship or activities that would be potentially impairing or that might create an unfair competitive advantage. Your attention is directed to FAR Subpart 9.5 and to the provision in Section H, "Conflict of Interest," which implements appropriate restrictions. Your attention is also invited to the provision in Section L, "Instructions for Submission and Information Required to Evaluate Proposals," under the paragraph "Statements Regarding Contractor Facility and Conflict of Interest," which will result in data to evaluate responsiveness.

#### **L-10 INQUIRIES CONCERNING THE RFP**

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

#### **L-11 PROPOSAL ORGANIZATION**

(1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).

(2) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

**L-12 TRAVEL AND MATERIAL ESTIMATES - FOR EVALUATION PURPOSES ONLY**

The travel and material set forth below must be included in each offeror's cost proposal. During the term of the contract, the contractor will be reimbursed actual and verifiable travel and material expenses.

- a) The Government estimates the travel costs for this effort to be \$10,000 per year for the basic contract, and \$10,000 per year for each option, if exercised.
- b) The Government estimates the material costs for this effort to be \$25,000 per for the basic contract, and \$25,000 per year for each option, if exercised.
- c) The travel and material estimates are direct costs and the offeror should add applicable indirect costs, if any.

**L-13 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

- (1) Include a matrix matching proposed labor hours and categories with the required level of effort. This matrix shall not contain labor rates or any other indication of price.
- (2) The following information is required for evaluation of your technical/management proposal:

Statement regarding Contractor Facility and Conflict of Interest

- Document ability to satisfy the "Contractor Facility" and "Conflict of Interest" clauses in Section H. (These are responsiveness issues).

Under the Technical Subfactor entitled "Company Experience and Management Approach":

- The proposal must document the company's experience base in the technology areas in the statement of work, including proven capability to perform timely design and fabrication of electronic equipment, including parts purchasing, printed circuit and chassis fabrication and wiring; timeliness often involves urgent operational needs. The proposal must document the company's understanding of the nature of the project from both management and technical standpoints, including the project management approach for accomplishing the statement of work. The proposal must document company experience in maintaining project capability by reliably providing capable personnel and management support sufficient to avoid interruptions resulting in program disruption or loss of key, project corporate memory.

Under the Technical Subfactor entitled "Personnel Qualifications and Laboratory "

- The proposal must provide documentation to demonstrate the availability, experience, abilities, and other qualifications or proposed personnel with respect to the statement of work and requirements set forth in Attachment No. 3, Personnel Qualifications. The evaluation will include assessment of the specific abilities needed to perform the SOW as well as satisfactory of the other requirements. The offeror must provide resumes for all proposed personnel. In addition to career experience and education, each resume should describe specific experience supporting the statement of work, including project skills, education, and other qualifications unless obvious from the career experience. The resumes should include customer points-of-contact with office telephone number, organization, contract or project number and title, and skill areas known to the point of contact. Ensure resume data for a bachelor's degree includes the year the degree was granted.

- Abilities to be addressed.

Project Manager; ability to perform independently, in managing projects similar to work described in the SOW

Senior Systems Engineer: ability to create, review, and modify test plans/procedures; ability to analyze test results.

Test Engineer: Proven ability in the design of optimized software and of software enhancement for optimization purposes.

Under the Technical Subfactor entitled "Past Performance Information":

(a) Offerors shall submit the following information as part of their proposal. (*Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.*) List the last five contracts or subcontracts completed by the offeror or predecessor companies during the past three years for services similar in nature to this requirement. Include in the five any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

1. Name of contracting organization.
2. Contract number
3. Contract type
4. Total contract value
5. Description of the contract work
6. Contracting officer and telephone number
7. Contracting officer's representative, program manager, or similar official and telephone number

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is located at <http://heron.nrl.navy.mil/contracts/pastperf.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

(c) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations.

## **L-14 VOLUME II - BUSINESS PROPOSAL**

**REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES**

### **(1) COST PROPOSAL**

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element. Should rates be used in the proposal, which are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

## **SECTION M EVALUATION FACTORS FOR AWARD**

### **M-1 EVALUATION**

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although technical considerations are more important than the cost factor, the closer the technical scores of the various proposals are to one another, the more important the business considerations become.

## **M-2 EVALUATION FACTORS FOR AWARD**

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. The first two technical factors, which are of equal importance, are more important than the third factor.

### **M-2-1. TECHNICAL/MANAGEMENT**

#### **(1) COMPANY EXPERIENCE AND MANAGEMENT APPROACH**

Each offeror will be evaluated on the following: (1) on the company's experience in the field of electronic equipment, including proven capability to perform timely design and fabrication of electronic equipment, including parts purchasing, printed circuit and chassis fabrication and wiring; timeliness often involves urgent operational needs; (2) on the soundness of the offeror's project management approach for accomplishing the statement of work; and (3) on the offeror's success in maintaining continuity: avoiding interruptions resulting in program disruption or loss of key, project corporate memory by reliably providing capable personnel and management support.

#### **(2) PERSONNEL QUALIFICATIONS AND LABORATORY**

Each offeror will be evaluated on the availability, experience, abilities and other qualifications of its proposed personnel and ability to provide a laboratory with respect to the requirements set forth in the statement of work, Attachment (1) and Personnel Qualifications, Attachment (3).

#### **(3) PAST PERFORMANCE**

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L-13 and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iii).

**M-2-2 COST TO THE GOVERNMENT**

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

**M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)**

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

## Statement of Work for Instrumentation and Integration Support

### 1. INTRODUCTION

The Naval Research Lab (NRL), Information Technology Division, is tasked by the Navy Inventory Control Point (NAVICP), Marine Corps System Command, Federal Aviation Administration (FAA), Naval Sea Systems Command (NAVSEA) to support the development, testing, and Fleet implementation of General Purpose Electronic Test Equipment (GPETE) to meet current and future equipment performance monitoring requirements for Shipboard Prime Electronic Systems. In addition a component of the tasking is to repair, maintain and calibrate select equipment in the inventory of the sponsors. A Sample of the types of GPETE tested, maintained and calibrated at the NRL includes: Microwave Synthesized Signal Generators, Oscilloscopes, Spectrum Analyzers, Local Area Network Testers, Fiber Optic Cable Testers, Power Meters, Optical Time Domain Reflectometers, sophisticated ESM Test Systems, and other instruments that are by nature consistent with emerging technology.

The Defense Research and Engineering Network (DREN) provides wide area network (WAN) services to High Performance Computing (HPC) users throughout the United States. The DREN Inter-site Services Contract (DISC) currently serves as the contractual vehicle through which AT&T provides digital data transfer services and related technical support services. A follow-on DREN contract was awarded to WorldCom, Inc. and transition efforts from AT&T's WAN under the DISC contract to WorldCom's WAN under the DREN contract are underway. The DoD High Performance Computing Modernization Office (HPCMO) is the program manager and operations manager for the DREN. The DREN Program Manager at the HPCMO is responsible for initiating and authorizing wide-area network (WAN) connectivity to all DREN users, monitoring the performance of the WAN and providing oversight of the commercial carrier contracts. An additional function of the DREN PM is to provide Information assurance (IA) for the HPCMP. A component of this is to explore new information assurance architectures, optimize the structure of the current IA components and document those processes. The Naval Research Laboratory (NRL) supports the DREN PM in accomplishing those goals and objectives. The Naval Research Laboratory in conjunction with the HPCMO provides support of network security supporting the DREN/SDREN, and provides technical guidance and performs test, evaluation and certification for the Designated Approving Authority (DAA), HPCMO. The workload encompasses performing Comprehensive Security Assessments, Coordination and maintenance of Network Security Documentation, development of information databases for security and budgetary information, application and developmental computer programming, maintaining the AEGIS database, transitional pricing and scheduling of site installations, and interaction with site points of contact for dissemination and compliance with HPCMO policies.

The Information Technology Division, is tasked by the Space And Naval Warfare Systems Command (SPAWAR) to support the development of equipment to enhance the operations of VLF/LF transmitter sites throughout the world. Some of the recent equipment delivered to the transmitter sites is the MD-1310/U MSK modulator, the Digital Processing Clock, the Time Integrity Modem and many others. Because of the expertise that resides at NRL, projects requiring the testing or analysis of VLF/LF communication systems is often encountered. To perform these projects special equipment and one-time designs are often produced.

The Information Technology Division conducts research and development on the Advanced Testing Technology tasks. These tasks incorporate sophisticated research technology in prototype instruments. The prototypes developed are unique and are used to demonstrate the underlying concepts.

## 2. SCOPE

This contract effort will provide analysis, testing support (Electrical and Environmental: Temperature, Humidity, Shock, Vibration, and Electromagnetic Interference (EMI)), design, engineering, fabrication of prototype hardware, and software development to meet Sponsor requirements. Tasking shall also include studies and reports on areas of provisioning, logistic support, requirements analysis, and testing. The Contractor shall provide engineering support for the following task areas: GPETE Bid Sample and Production Lot Testing, Salient Characteristic development for the various sponsor GPETE Programs, the Sponsor's GPETE Acquisition Programs, GPETE testing software development, Equipment Performance Monitoring – TWT for communication systems instrumentation development, and task areas related to the VLF/LF Transmitter Site Modernization.

Management analysis and technical support of the sponsor program management structure is required and includes analysis of the effectiveness of logistic support systems, maintenance, repair and calibration facilities, preparing documentation, reports and presentations to support the technical and budgetary requirement for the procurement of new or replacement equipment.

Provide technical and programmatic support to the DREN Program Manager in executing his core function of oversight of network security services for the High Performance Computing (HPC) center and user community. This includes evaluating the security posture of HPC centers and user sites. The work environment involves continuous and direct participation with the Director of the HPCMO, DREN PM, HPCMP Security Action Officer, HPC site networking personnel and the network service providers regarding security actions that occur within the DREN program. The Contractor shall provide NRL, Washington DC and the HPCMO with engineering and technical services to satisfy the requirements stated herein and to assure that continuity, accountability, and standardization will be maintained with respect to the on-going projects at the HPCMO and NRL-DC.

## 3. TASK REQUIREMENTS

The Contractor shall perform the tasks, render the services, provide the facilities, and deliver all supplies and services set forth herein.

The Contractor must not have a vested interest in any aspect of general or special purpose electronic test equipment. Specifically the Contractor must not produce, market, sale or distribute GPETE, nor may the Contractor represent to the government a manufacturer in any capacity, during the term of this contract. The Contractor will assist the Naval Research Laboratory in the development of procurement specifications for Navy test instruments and evaluate the technical proposals and Bid Samples during the award process for Navy instrument procurements. The Contractor shall also draft salient characteristics. The Contractor must not present an actual or perceived conflict of interest.

The facilities must be in close proximity (within 50 miles) of the Naval Research Laboratory located in South West, Washington DC, in order to assure the timely scheduling and completion of tests. The office space must include a meeting area with a capacity for at least 20 people, and a laboratory suitable for testing or fabrication of prototype electronic equipment. The proximity requirement is based on the sequential nature of testing that requires frequent transport between NRL and the Contractor's facility. The expected distribution of hours on-site at NRL is estimated to be 40 % of the total labor hours. The remaining 60% of labors hours are expected to be performed at the Contractor's facility.

The Contractor shall have facilities suitable to accomplish the tasks identified in this Statement of Work. Contractor facilities must be capable of augmenting the test facilities at the Naval Research Laboratory. The Contractor must provide the ability to fabricate equipment designs in a timely manner, to meet the often-urgent operational needs and to support the timely completion of testing.

### **3.1 Salient Characteristics**

Salient Characteristics are technical specifications that define the performance characteristics of instruments required to support the Navy operations. The Salient Characteristics define the performance of GPETE required to support the test and maintenance of Navy electronic systems. The Salient Characteristics are incorporated into solicitations for the purchase of the defined instruments. The Contractor shall provide technical input and completed text for the Salient Characteristics. The technical input will address the performance parameters, size, and weight requirements, and environmental characteristics for each item based upon an analysis of the operational environment. To perform this effort the Contractor may be required to discuss technical requirements with fleet personnel and access information from equipment vendors to formulate technical recommendations reconciled to Navy needs, while maintaining a realistic perspective of the competitive marketplace.

The Contractor shall submit Salient Characteristics to the COR, and conform to technical instructions provided by the COR. Milestones are established for the submissions and the Contractor must be able to provide the necessary technical recommendations in a timely manner, such that the recommendations can be reviewed by NRL personnel involved in preparing the Salient Characteristics. The COR shall provide the Contractor with the format for Salient Characteristics, and the Contractor shall deliver Salient Characteristics in the established format. In addition, the Contractor is required to maintain the revision history of each Salient Characteristic.

### **3.2 Bid Sample and Production Lot Testing**

Bid Sample testing is a process used by the GPETE program to ensure that equipment offered to fulfill the requirements of an established fleet need are in accordance with the salient characteristics of a solicitation used to procure the equipment. Generally the equipment offered is either commercial-off-the-shelf (COTS) instruments or COTS equipment that has been modified by a manufacturer to meet the required salient characteristics. When an instrument manufacturer chooses to bid on the solicitation, the Navy may require that the offered instrument (a Bid Sample) be provided by the manufacturer for evaluation against the salient characteristics of the solicitation. A quantity of two Samples is normally required. These Bid Samples are then evaluated at the Naval Research Laboratory to determine conformance to the salient characteristics. This evaluation includes evaluation of the electrical characteristics in a laboratory environment. The bid Samples are also evaluated during and after environmental tests have been performed. The environmental tests include bench handling, transit case drop, shock, vibration, temperature, humidity and EMI. The Electrical, temperature and humidity, shock and vibration portion of the testing is normally performed in facilities at NRL by NRL personnel. The Contractor shall provide support in the testing of selected Bid Samples. The Contractor shall perform Bid Sample Testing in accordance with the Specified Salient Characteristics. Guidance in the type of testing required can be obtained from MIL-PRF-28800. This task includes the development of automated test programs and techniques using IEEE-488 interface bus controlled test instrumentation systems.

Production Lot Sample Testing is testing of a deliverable item on a specific Navy acquisition. The vendor may have recently developed the instrument or modified an existing instrument in order to meet the salient characteristics of the acquisition. The intent of the Production Lot Sample testing is to verify that instruments that are new technology and new to the Navy inventory meet the specification of the acquisition contract. Production Lot Testing verifies that the vendor is able to manufacture and deliver a production instrument (selected from a production lot) that meets the same technical characteristics as that initially offered.

In addition to the actual testing, this task shall include development of a test plan for each item tested, a test report showing all data and results of the testing, and pass/fail recommendations. The Contractor shall perform testing on Bid or Production Lot Samples. The tasking will outline the type of testing that is required for a Bid or Production Lot Sample and establish a required completion date. A test plan will be developed by the Contractor and will cover the procedures that will be used to achieve the testing requirements. The resulting test plan will include discussion of both the testing performed by

Government personnel and those tests performed by the Contractor. When manufacturers provide Samples, they are required to submit a technical manual for the Sample. The technical manual is evaluated during the Bid Sample Testing process and again during Production Lot testing. The Contractor shall evaluate the technical manual for the Sample in accordance with the guidance of MIL-PRF-28800. As tasking is performed, the Contractor shall enter appropriate data, consistent with the tasking, in a database. The Database application currently in use is Filemaker and is maintained on a Macintosh computer. Entries in the database will reflect the progress of the tasked effort. Upon completion of the testing of a Sample Evaluation a test report will be prepared by the Contractor and submitted to the Government for approval. The test report shall contain both the applicable data and indicated results. Although evaluation of the technical manual of Samples is required, it will only be performed on technical manuals of Samples that have passed Sample testing. As such, a separate report detailing the results of the technical manual review will be submitted by the Contractor. The report on the technical manual will express deficiencies in the technical manual as well as provide a summary recommendation concerning the acceptability of the technical manual. Finally a summary letter will be prepared that will provide pass/fail recommendations for a particular Sample.

The Contractor shall coordinate the testing process, provide weekly status reports to indicate the progress of Sample testing procedures, prepare a test plan for approval, consolidate test results, and provide an organized test report. The Contractor shall maintain details of revision history and test results for past and current Samples.

### **3.3 Electromagnetic Interference Testing**

To support the Bid Sample and Production Lot testing the Contractor shall have the capability and facilities of testing equipment for Electromagnetic Interference (EMI). While NRL has facilities to support EMI testing it is often impractical due to cost, scheduling or personnel constraints to use those facilities, which belong organizationally to other components within NRL. Projects that involve classified equipment will require that the EMI testing be performed at NRL, however other general unclassified EMI tests may be performed at the Contractor's facility. The Contractor shall be accredited by the Department of Commerce National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for Electromagnetic Compatibility and Telecommunications. This criteria encompasses the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as a supplier of test results. At a minimum the test laboratory shall be accredited for the following emissions and immunity test methods;

- Electrostatic Discharge Immunity Test
- Radiated, Radio-Frequency Electromagnetic Field Immunity Test
- Electrical Fast Transient/Burst Immunity Test
- Surge Immunity Test
- Conducted Disturbance, Induced Radio-Frequency Fields Immunity Test
- Radiated and Conducted Emissions

### **3.4 Testing Software Development**

Testing at the Naval Research Laboratory is often automated through the use of computer-controlled instrumentation. Instruments used in testing usually have a communications port that can be accessed by an instrument controller. The communications port may be either serial, parallel, or IEEE-488 compatible. There also is the necessity to control instruments in system architectures, where VXI and MMS are most often used. The Contractor must be familiar with instrumentation interfaces and programming a variety of computers to control instruments.

The Contractor shall develop software for test systems at NRL. The task shall involve programming the HP-9800 series family of computers in HP-Basic and HPL, or Macintosh or IBM personal computers in C or BASIC computer languages or in one of the many graphical development

systems, i.e., LABVIEW. The software must be supported with documentation and development shall be compatible with NRL generated software.

### **3.5 Maintenance, Repair and Calibration Support**

Maintenance and calibration support is required for a diverse number and type of systems distributed throughout the USA. Both field and depot level support are required to maintain the readiness of systems. The Contractor shall provide a calibration and repair laboratory capable of servicing a wide range of test equipment received from a wide variety of locations and quickly returning the equipment to the operational source location. The actual time required for the repair will be determined upon receipt of the equipment by the Contractor. It is anticipated that repair and calibration service will be required for instruments such as multimeters, scopes, analyzers, power supplies, fiber optic equipment, RF equipment, communication equipment and specialized test equipment. The Contractor's laboratory shall have the following characteristics: The laboratory shall be fully equipped to perform in-house repairs and calibrations to insure quick turn around of equipment. The laboratory shall have NIST traceable standards. The laboratory shall have a documented quality system that is ISO 9001 compliant and meet all ANSI/NCSS Z540-1 requirements. The laboratory shall be affiliated with organizations such as the National Conference of Standards Laboratories International (NCSL) to remain up to date with the latest changes in technology. The laboratory must provide a tracking system that will insure all maintenance performed on equipment is properly logged in the system. A calibration recall system shall be in place capable of automated recall of equipment by due date. The laboratory personnel will be properly trained to handle all Test, Measurement & Diagnostic Equipment (TMDE).

### **3.6 GPETE Requirements List Data Management System.**

NRL provides support to NAVICP by maintaining the database that provides management information for the procurement of all general-purpose test equipment. The information in the database includes information on the test equipment required by each of the claimants. The Oracle relational database software program is used to manipulate the data and produce reports. Oracle Reports and Developer software is used to provide an easier interface for users. The effort will be to continue support of the current capabilities and to enhance the access capabilities for a larger client base that may include access over the internet. The Contractor shall maintain the database and this shall include, but is not limited to: maintenance of the data in the database, producing reports on demand, verifying the reports, assisting in use of the user interface, development of user interface enhancements, administration tasks, and maintaining current backup of the system.

### **3.7 Prototype Hardware Development**

The Contractor shall provide engineering support to the development of new prototype hardware. This task includes design, fabrication, testing, and installation of new prototype equipment for the variety of hardware development projects that require prototype or limited production models. The Contractor is required to fabricate circuit boards, equipment chassis, fixtures, sub-assemblies, and assemblies.

### **3.8 Research and Development Project Support.**

The Contractor shall provide engineering and technical support for the Research and Development projects pursued by the NRL in communications and information security, encompassing research and evaluation of state-of-the-art concepts and components for instrumentation. The Contractor shall provide general technical support to this area in the form of assembly, fabrication or design of components that may be integrated with the other developmental components. In addition, this task will

require analysis of the technical design of components, assessment of requirements to create new or improved instrumentation, and the preparation of briefing materials (viewgraphs, slides, etc.)

### **3.9 Support of Network Security Initiatives and CSAs.**

The Contractor shall assist the HPCMP Security Assessment team in performing security assessments at HPCMP Shared Resource Center, and verify implementation of HPCMP policy and guidance for user access and clearances, Kerberos and SecurID, and export control and ITAR compliance. The Contractor shall conduct penetration testing of the DREN WAN, where necessary (pre-CSA, and post follow-up). The Contractor shall: develop DREN specific security plans and implementations; ensure execution of the generic HPCMP CSA test plan and procedures at sites where designated an HPCMO representative; review security procedures currently in use at the visited DREN and SDREN locations for accuracy and applicability; represent the DoD HPCMO during site visits for DREN issues beyond the immediate security assessment; communicate HPCMP related concerns to the HPCMP Security Action Officer, during the CSA as well as in summary following the CSA through a trip report; review the CSA report provided by the CSA team/technical lead for accuracy and consistency; make recommendations for changes and/or approval of the CSA report; ensure that the information gathered during the CSA is incorporated into the HPCMP storage and retrieval process; and facilitate the preparation, update and storage of information with other support personnel.

### **3.10 Coordination and Maintenance of Network Security Documentation.**

The Contractor shall: ensure that the information gathered during the CSA is incorporated into the HPCMP storage and retrieval process; facilitate the preparation, update and storage of information with other support personnel; institute processes to monitor the status of connection approvals, accreditations, CSA schedules, Security website information; ensure the findings database of CSA findings remains current with latest CSA results; assist in the preparation of security related memoranda regarding various HPCMP security practices and provide input for the development of HPCMP security policy and assist in the preparation of accreditation documentation for the HPCMP and its constituent parts. All may be applicable to either DREN or SDREN.

### **3.11 Computer Application and Database Development.**

The Contractor shall develop databases and tables for use within the HPCMO Local Area Network. Databases must provide information related to DREN connectivity charges, service provider charges, DREN budget, DREN Service Delivery Orders, Site Connectivity Information (Interface and Transfer Rate), Site Points of Contact, DREN Service Agreement and SDREN Connection Approval Information, Accreditation and Authority to Connect expirations, IP Address files, Suspense files, and Other Network and Security related information. Databases must be developed to provide reports as necessary. The Contractor shall also maintain and administer the AEGIS database, which holds High Performance Computing user information. The Contractor shall import and export SecurID tokens, and update AEGIS web access control lists. The Contractor shall develop and/or modify software as required in the support of DREN/SDREN initiatives. The Contractor shall review software documentation, specifications, test plans, and software engineering changes. Tasking includes participation in software verification and validation efforts.

### **3.12 HPC CERT Support services.**

The Contractor shall develop and provide Computer Emergency Response Team (CERT) specific solutions when required. The Contractor shall provide on-site emergent integration for INFOSEC and network related items. The Contractor shall provide support in the selection, maintenance, configuration management, and security of network installed intrusion detection systems. The Contractor

shall provide CERT monitoring, maintenance of access control lists, and in-line encryptors and provide CERT coordination in accordance with CERT Standard Operating Procedures. The Contractor shall evaluate new applications and tools in support of intrusion detection.

### **3.13 Information Assurance/Computer Security.**

The Contractor shall provide design, implementation, and operation of information security technologies and systems. These span the life cycle from requirements analysis, risk assessments, system specification, security architecture design, system implementation, product integration, and Information Assurance (IA) operations. Technology and products include network discovery and mapping tools, vulnerability scanning tools, identification and authentication, firewalls, and other boundary protection tools, virtual private networks, telephony security products, intrusion detection systems. IA operations support includes security system management, vulnerability assessment, intrusion detection, and incident response.

### **3.14 Program Management Support.**

The Contractor shall provide management support to include preparation and analysis, strategic planning, preparation of briefings, and preparation of white papers. The Contractor shall provide POM preparation and analysis, strategic planning, acquisition planning and support, proposal preparation and reviews, prepare and give briefings regarding security or logistics aspects of the programs. The Contractor shall investigate program requirements, perform studies, analyze system/equipment performance, and submit recommendations for developments, upgrades, modifications, or alterations of security hardware and/or software as appropriate to improve system operation in the field environment. The Contractor shall study operational requirements to determine system performance criteria and to outline functional requirements. The Contractor shall participate in design reviews, technical reviews, and discussions regarding security systems, logistics, equipment, maintenance, calibration within the programs. The Contractor may be required to attend seminars, conferences, and/or specific training courses in support of the programs. The Contractor shall analyze system descriptions, specifications and performance, and shall determine requirements for systems, equipment, and programs. The Contractor shall generate/review test plans and procedures that will verify that the system/equipment is operable for its intended purpose. The Test Plan shall detail the function and intent of what is to be done and the Test Procedure shall discuss how the test will be carried out. The Contractor shall participate in design reviews, technical reviews, audits and discussions, and shall provide NRL-DC with management status reports that shall be updated and delivered on a weekly/monthly basis, or as required. The report shall be augmented by oral presentations as directed by the PI or PM.

### **3.15 Logistics Support.**

Support for projects performed under this statement of work often require the consideration of Logistic Support aspects. Specifically the Contractor shall deliver the documentation support package required for fielding a system in the operational environment. This includes but is not limited to: preparation of the equipment technical manual, operational manual, training manual, repair manual, drawing packages, training materials, provisioning information, mean-time-to-repair and mean-time-to-failure statistics, etc. In addition, the Contractor shall perform provisioning analysis and integrate this information into a form used by the Navy supply system for supporting material. All logistics packages shall be acceptable for submission and approval.

### **3.16 Site Survey Support**

The Contractor shall provide engineering and technical support for evaluation of the operational status of the communications and network aggregation facilities located throughout the world. The Contractor's survey team must inspect the operations of the facilities and provide recommendations on improvement, upgrades or refurbishment that are required to maintain the facilities as reliable communication stations. The survey must include information on the physical plant and electronics (both low power and high power components and subsystems). The survey team shall include experts in the evaluation of structural defects and of electronics used in communications.

Site Surveys may also include the development of specialized test systems to perform various tests. In most applications the Contractor will be required to be able to analyze the requirement of system testing and to be able to formulate a plan for successfully performing the tests. Included in the plan may be requirements to assemble a mobile test suite that includes a computer controller, various stand-alone test equipment or VXI test systems, digitizers and specialized test software designs specifically for the test. The Contractor shall provide technical support in the development of the specialized test systems. The Contractor shall provide hardware integration capability, the ability to design and fabricate specialized instruments, the ability to design and produce software to control system tests, collect test data, and produce verifiable test results, and produce reports describing test system development, testing procedures, and test results.

### **3.17 MD-1310/U Quality Assurance Testing.**

The MD-1310/U MSK modulator is a state-of-the-art instrument that is being deployed at VLF/LF transmitter sites to modernize the existing capability. Before delivery an extensive testing procedure is performed on each unit and set of spare printed circuit cards. The Contractor shall provide technical support for the testing and quality assurance of modulators. This includes following the established procedures, performing the necessary tests, recording the resulting data and preparing the equipment for shipment. As such, the Contractor shall provide maintenance support and analysis for modulators that experience failures before the logistic support is available at a Navy depot. The Contractor shall be required to repair the modulators and perform the quality assurance testing performed on new modulators. The Government shall furnish a test system that shall be used in modulator testing. The test system is used to test the modulators and provide quality assurance of signal characteristics. The instruments typically controlled are spectrum analyzers, signal generators, oscilloscopes, and peripherals such as printers and plotters.

### **3.18 Documentation for Existing Prototype Equipment**

The Contractor shall develop new, or modify existing, documentation for prototype hardware units implemented at Navy VLF/LF transmitter sites. The documentation includes schematic drawings, wiring diagrams, illustrations, and technical procedures as appropriate. Documentation currently exists in the electronic formats used on Apple Macintosh computers. Software used to produce the documentation is primarily Microsoft Word, Claris CAD, and Ashlar-Vellum CAD. The Contractor shall deliver documentation in electronic formats that are compatible with Apple Macintosh computers. The Contractor shall also access the documentation that currently exists and be able to modify or update the documentation as revisions are performed.

The Contractor shall also be familiar with and apply the requirements for obtaining Navy Program office approval for modifications to deployed instruments and systems. Generally approval is obtained by submitting an Engineering Change Proposal (ECP). The Contractor shall be familiar with and apply the documentation requirements needed to produce an ECP and with the process required to achieve approval of the ECP from the program office.

#### **4. DELIVERABLE PRODUCTS**

##### **4.1 Progress Reports**

Progress reports will consist of a summary of the engineering support provided in relation to each of the task areas described in the Requirements section of this Statement of Work. There shall be a section in the progress report that enumerates the level of effort in each task area and the corresponding cost of the effort; this includes both manpower expenditures and financial expenditures of the Contractor. There shall be a section that defines a projected level of effort based on tasking, including both personnel man-hours and cost. Finally, there shall be a summary financial section. Full progress reports shall be provided monthly, however the Contractor shall identify the manpower, and financial expenditures incurred in the previous week and report this in a weekly report.

##### **4.2 Technical Reports**

The Contractor shall provide reports to the COR that conform to NRL report NRL/PU/5230-93-0241, "NRL Report Format," published by the Naval Research Laboratory. The reports shall be provided as a single hardcopy with an electronic copy stored on computer disk. The hardcopy of reports shall be of laser printer quality or better. The electronic copy shall be in a format that is directly compatible with Apple Macintosh computers and accessible through PageMaker or Microsoft Word, word processing, software packages. Reports shall include but are not limited to, the following sections: Abstract, Introduction, Applicable Specification, Body describing the effort performed, Results, Analysis, Summary and References. The technical report may also include the following items:

**4.2.1 Engineering Drawings** - Schematics and engineering drawings shall be provided for each hardware prototype effort. These shall be provided in a hardcopy form and as a corresponding electronic copy on computer disk. The electronic copy shall be in an Apple Macintosh compatible format. The deliverable shall be sufficient to perform fabrication of the hardware item.

**4.2.2 Software Code** - All software must will be delivered as both source code and as executable code. Software shall be compatible with one of the following computers: Apple Macintosh, IBM compatible or HP series 80, 200, 300 or 9000; or as firmware to embedded controllers in hardware prototypes. The computer platform and programming language shall be specified before any software development. The software code provided as a deliverable shall conform to industry conventions of good programming techniques and shall include comments internal to the software that will adequately describe the functionality of the software to a programmer conversant in the software language used for the development.

##### **4.3 Documentation**

Documentation shall be provided to accompany delivery of all software or hardware deliverables. The documentation shall be provided as a single hardcopy, with an electronic copy stored on computer disk. The hardcopy of reports shall be of laser printer quality or better. The electronic copy shall be in a format that is directly compatible with Apple Macintosh computers and accessible through PageMaker or Microsoft Word, word processing, software packages. The format provided shall be the same as for reports, but content shall be restricted to discussion of the accompanying software or hardware and include a technical overview, a section detailing the technical effort and a summary of the results. Documentation may also include the following items:

**4.3.1 Engineering Drawings** - Schematics and engineering drawings shall be provided for each hardware prototype effort. These shall be provided in a hardcopy form and as a corresponding electronic

copy on computer disk. The electronic copy shall be in an Apple Macintosh compatible format. The deliverable shall be sufficient to perform fabrication of the hardware item.

**4.3.2 Software Code** - All software code will be delivered as both source code and as executable code. Software shall be compatible with one of the following computers: LINUX, Sun Sparc, Apple Macintosh, IBM compatible or HP series 80, 200, 300 or 9000; or as firmware to embedded controllers in hardware prototypes. The computer platform and programming language shall be specified before any software development. The software code provided as a deliverable shall conform to industry conventions of good programming techniques and shall include comments internal to the software that will adequately describe the functionality of the software to a programmer conversant in the software language used for the development.

#### 4.4 Prototype Hardware

Prototype hardware shall consist of a working model of electronic equipment that can readily be transformed into engineering development models. The delivered prototype shall meet the specification established at the beginning of the task effort.

### 5. APPLICABLE DOCUMENTS

The following documents, of the issue in effect on the date of the contract award, form a part of this SOW to the extent specified herein. In the event of a conflict between any of the referenced documents and the requirements of this SOW, the contents of this SOW shall be considered a superseding requirement.

#### 5.1 Military Specifications and Standards

##### Document Number

##### Description

MIL-PRF-28800F                      Test Equipment For Use With Electrical and Electronic Equipment

Note: All documents may be obtained from the Naval Publications and Forms Center, 5801 Tabor Avenue, ATTN: NPODS, Philadelphia, PA 19120-5099. Telephone (215) 697-1187/2179.

#### 5.2 Program Documents

##### Document Number

##### Description

NRL/MR/5524-94-7386	MD-1310/U VLF/LF Modulator: Technical Operations and Maintenance Manual with Illustrated Parts Breakdown
1	MD-1310/U VLF/LF Modulator Drawing Package: DoD Level II, Drawings and Associated Parts Lists
2	Quality Assurance, Alignment, and Test Procedures for the MD-1310/U Modulator
3	Test Procedures and Results for the MD-1310/U Modulator

Note: All documents may be obtained by written request from the Naval Research Laboratory, 4555 Overlook Ave., SW, Code 5524, Washington DC 20375-5337.

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
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The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing

<b>A. CONTRACT LINE ITEM NO.</b> 0002				<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM- _____ OTHER _____				
<b>D. SYSTEM / ITEM</b>				<b>E. CONTRACT / PR NO.</b> N00173-02-R-MS08		<b>F. CONTRACTOR</b>				
<b>1. DATA ITEM NO.</b> A001		<b>2. TITLE OF DATA ITEM</b> Progress Reports			<b>3. SUBTITLE</b>					
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 4.1		<b>6. REQUIRING OFFICE</b> NRL Code 5524				
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> MTHLY		<b>12. DATE OF FIRST SUBMISSION</b> 30DAC		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b> N/A		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> MTHLY		<b>a. ADDRESSEE</b>		<b>b. COPIES</b>		
								Draft		Final
<b>16. REMARKS</b>						COR		0	1	0
<b>15. TOTAL</b> →						0	1	0		

<b>1. DATA ITEM NO.</b> A002		<b>2. TITLE OF DATA ITEM</b> Technical Reports			<b>3. SUBTITLE</b>					
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 4.2		<b>6. REQUIRING OFFICE</b> NRL Code 5524				
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b> N/A		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A		<b>a. ADDRESSEE</b>		<b>b. COPIES</b>		
								Draft		Final
<b>16. REMARKS</b>						COR		0	1	0
<b>15. TOTAL</b> →						0	1	0		

<b>1. DATA ITEM NO.</b> A003		<b>2. TITLE OF DATA ITEM</b> Technical Reports - Engineering Drawings			<b>3. SUBTITLE</b>					
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 4.2.1		<b>6. REQUIRING OFFICE</b> NRL Code 5524				
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b> N/A		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A		<b>a. ADDRESSEE</b>		<b>b. COPIES</b>		
								Draft		Final
<b>16. REMARKS</b>						COR		0	1	0
<b>15. TOTAL</b> →						0	1	0		

<b>1. DATA ITEM NO.</b> A004		<b>2. TITLE OF DATA ITEM</b> Technical Reports - Software Code			<b>3. SUBTITLE</b>					
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 4.2.2		<b>6. REQUIRING OFFICE</b> NRL Code 5524				
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b> N/A		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A		<b>a. ADDRESSEE</b>		<b>b. COPIES</b>		
								Draft		Final
<b>16. REMARKS</b>						COR		0	1	0
<b>15. TOTAL</b> →						0	1	0		

<b>G. PREPARED BY</b> NRL CODE 5524				<b>H. DATE</b>		<b>I. APPROVED BY</b>		<b>J. DATE</b>	
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

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<b>A. CONTRACT LINE ITEM NO.</b> 0002	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM- _____ OTHER _____	
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<b>D. SYSTEM / ITEM</b>	<b>E. CONTRACT / PR NO.</b> N00173-02-R-MS08	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A005	<b>2. TITLE OF DATA ITEM</b> Documentation	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW 4.3	<b>6. REQUIRING OFFICE</b> NRL Code 5524
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<b>7. DD 250 REQ</b> NO	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
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<b>8. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
				Draft	Final	

<b>16. REMARKS</b>	COR	0	1	0
	<b>15. TOTAL</b> →	0	1	0

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A006	<b>2. TITLE OF DATA ITEM</b> Documentation - Engineering Drawings	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW 4.3.1	<b>6. REQUIRING OFFICE</b> NRL Code 5524
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<b>7. DD 250 REQ</b> NO	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
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<b>8. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
				Draft	Final	

<b>16. REMARKS</b>	COR	0	1	0
	<b>15. TOTAL</b> →	0	1	0

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A007	<b>2. TITLE OF DATA ITEM</b> Documentation - Software Code	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW 4.3.2	<b>6. REQUIRING OFFICE</b> NRL Code 5524
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<b>7. DD 250 REQ</b> NO	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
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<b>8. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
				Draft	Final	

<b>16. REMARKS</b>	COR	0	1	0
	<b>15. TOTAL</b> →	0	1	0

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A008	<b>2. TITLE OF DATA ITEM</b> Salient Characteristics	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> NRL Code 5524
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<b>7. DD 250 REQ</b> NO	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
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<b>8. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
				Draft	Final	

<b>16. REMARKS</b>	COR	0	1	0
	<b>15. TOTAL</b> →	0	1	0

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>G. PREPARED BY</b> NRL CODE 5524	<b>H. DATE</b>	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT A		C. CATEGORY: TDP _____ TM- _____ OTHER _____			
D. SYSTEM / ITEM			E. CONTRACT / PR NO. N00173-02-R-MS08		F. CONTRACTOR		
1. DATA ITEM NO. A009	2. TITLE OF DATA ITEM Bid Sample Test Plan			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.2		6. REQUIRING OFFICE Code 5524			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE	b. COPIES		
16. REMARKS				COR	Draft	Final	
					Reg	Repro	
				15. TOTAL →	0	1	0
1. DATA ITEM NO. A010	2. TITLE OF DATA ITEM Bid Sample Test Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.2		6. REQUIRING OFFICE Code 5524			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE	b. COPIES		
16. REMARKS				COR	Draft	Final	
					Reg	Repro	
				15. TOTAL →	0	1	0
1. DATA ITEM NO. A011	2. TITLE OF DATA ITEM Results of Technical Manual Review			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.2		6. REQUIRING OFFICE Code 5524			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE	b. COPIES		
16. REMARKS				COR	Draft	Final	
					Reg	Repro	
				15. TOTAL →	0	1	0
1. DATA ITEM NO. A012	2. TITLE OF DATA ITEM Testing Software Development			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SOW 3.3		6. REQUIRING OFFICE Code 5524			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE	b. COPIES		
16. REMARKS The software must be supported with documentation and development must be compatible with NRL generated software.				COR	Draft	Final	
					Reg	Repro	
				15. TOTAL →	0	1	0
G. PREPARED BY NRL CODE 5524		H. DATE		I. APPROVED BY		J. DATE	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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<b>A. CONTRACT LINE ITEM NO.</b> 0002				<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM- _____ OTHER _____																															
<b>D. SYSTEM / ITEM</b>				<b>E. CONTRACT / PR NO.</b> N00173-02-R-MS08		<b>F. CONTRACTOR</b>																															
<b>1. DATA ITEM NO.</b> A013		<b>2. TITLE OF DATA ITEM</b> GPETE Requirements List Data Management				<b>3. SUBTITLE</b>																															
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 3.6		<b>6. REQUIRING OFFICE</b> Code 5524																															
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>																													
<b>8. APP CODE</b> N/A				<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width:30%;"><b>a. ADDRESSEE</b></td> <td colspan="3"><b>b. COPIES</b></td> </tr> <tr> <td style="width:10%;"><b>Draft</b></td> <td colspan="2"><b>Final</b></td> </tr> <tr> <td></td> <td style="width:10%;"></td> <td style="width:10%;"><b>Reg</b></td> <td style="width:10%;"><b>Repro</b></td> </tr> <tr> <td><b>16. REMARKS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			<b>Draft</b>	<b>Final</b>				<b>Reg</b>	<b>Repro</b>	<b>16. REMARKS</b>												<b>15. TOTAL</b> →		0	1	0
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		<b>Reg</b>	<b>Repro</b>																																		
<b>16. REMARKS</b>																																					
<b>15. TOTAL</b> →		0	1	0																																	
								0	1	0																											
<b>1. DATA ITEM NO.</b> A014		<b>2. TITLE OF DATA ITEM</b> DREN Security Plans/Implementations				<b>3. SUBTITLE</b>																															
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 3.9		<b>6. REQUIRING OFFICE</b> Code 5524																															
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>																													
<b>8. APP CODE</b> N/A				<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width:30%;"><b>a. ADDRESSEE</b></td> <td colspan="3"><b>b. COPIES</b></td> </tr> <tr> <td style="width:10%;"><b>Draft</b></td> <td colspan="2"><b>Final</b></td> </tr> <tr> <td></td> <td style="width:10%;"></td> <td style="width:10%;"><b>Reg</b></td> <td style="width:10%;"><b>Repro</b></td> </tr> <tr> <td><b>16. REMARKS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			<b>Draft</b>	<b>Final</b>				<b>Reg</b>	<b>Repro</b>	<b>16. REMARKS</b>												<b>15. TOTAL</b> →		0	1	0
<b>a. ADDRESSEE</b>	<b>b. COPIES</b>																																				
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<b>15. TOTAL</b> →		0	1	0																																	
								0	1	0																											
<b>1. DATA ITEM NO.</b> A015		<b>2. TITLE OF DATA ITEM</b> Program Management Support Test Plan				<b>3. SUBTITLE</b>																															
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b> SOW 3.14		<b>6. REQUIRING OFFICE</b> Code 5524																															
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>																													
<b>8. APP CODE</b> N/A				<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width:30%;"><b>a. ADDRESSEE</b></td> <td colspan="3"><b>b. COPIES</b></td> </tr> <tr> <td style="width:10%;"><b>Draft</b></td> <td colspan="2"><b>Final</b></td> </tr> <tr> <td></td> <td style="width:10%;"></td> <td style="width:10%;"><b>Reg</b></td> <td style="width:10%;"><b>Repro</b></td> </tr> <tr> <td><b>16. REMARKS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			<b>Draft</b>	<b>Final</b>				<b>Reg</b>	<b>Repro</b>	<b>16. REMARKS</b>												<b>15. TOTAL</b> →		0	1	0
<b>a. ADDRESSEE</b>	<b>b. COPIES</b>																																				
	<b>Draft</b>	<b>Final</b>																																			
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<b>16. REMARKS</b>																																					
<b>15. TOTAL</b> →		0	1	0																																	
								0	1	0																											
<b>1. DATA ITEM NO.</b> A016		<b>2. TITLE OF DATA ITEM</b> Logistics Support Manuals				<b>3. SUBTITLE</b>																															
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> Code 5524																															
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>																													
<b>8. APP CODE</b> N/A				<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width:30%;"><b>a. ADDRESSEE</b></td> <td colspan="3"><b>b. COPIES</b></td> </tr> <tr> <td style="width:10%;"><b>Draft</b></td> <td colspan="2"><b>Final</b></td> </tr> <tr> <td></td> <td style="width:10%;"></td> <td style="width:10%;"><b>Reg</b></td> <td style="width:10%;"><b>Repro</b></td> </tr> <tr> <td><b>16. REMARKS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			<b>Draft</b>	<b>Final</b>				<b>Reg</b>	<b>Repro</b>	<b>16. REMARKS</b>												<b>15. TOTAL</b> →		0	1	0
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<b>15. TOTAL</b> →		0	1	0																																	
								0	1	0																											
<b>G. PREPARED BY</b> NRL CODE 5524				<b>H. DATE</b>		<b>I. APPROVED BY</b>		<b>J. DATE</b>																													

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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<b>A. CONTRACT LINE ITEM NO.</b> 0002				<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM- _____ OTHER _____														
<b>D. SYSTEM / ITEM</b>				<b>E. CONTRACT / PR NO.</b> N00173-02-R-MS08		<b>F. CONTRACTOR</b>														
<b>1. DATA ITEM NO.</b> A017		<b>2. TITLE OF DATA ITEM</b> Documentation for Existing Prototype Equipment				<b>3. SUBTITLE</b>														
<b>4. AUTHORITY (Data Acquisition Document No.)</b>				<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> Code 5524														
<b>7. DD 250 REQ</b> NO		<b>9. DIST STATEMENT REQUIRED</b>		<b>10. FREQUENCY</b> ASREQ		<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>												
<b>8. APP CODE</b> N/A				<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width:30%;"><b>a. ADDRESSEE</b></td> <td colspan="3"><b>b. COPIES</b></td> </tr> <tr> <td style="width:10%;"><b>Draft</b></td> <td colspan="2"><b>Final</b></td> </tr> <tr> <td></td> <td style="width:10%;"><b>Reg</b></td> <td style="width:10%;"><b>Repro</b></td> <td></td> </tr> </table>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			<b>Draft</b>	<b>Final</b>			<b>Reg</b>	<b>Repro</b>	
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<b>16. REMARKS</b>						COR		0	1	0										
						<b>15. TOTAL</b> →		0	1	0										

<b>1. DATA ITEM NO.</b>		<b>2. TITLE OF DATA ITEM</b>				<b>3. SUBTITLE</b>														
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<b>G. PREPARED BY</b> NRL CODE 5524				<b>H. DATE</b>		<b>I. APPROVED BY</b>		<b>J. DATE</b>	
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>17. PRICE GROUP</b>
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<b>18. ESTIMATED TOTAL PRICE</b>



<b>DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				<b>1. CLEARANCE AND SAFEGUARDING SER: 035-02</b> a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;"><b>SECRET</b></p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;"><b>SECRET</b></p>																																																																																					
<b>2. THIS SPECIFICATION IS FOR: (X and complete as applicable)</b> a. PRIME CONTRACT NUMBER  b. SUBCONTRACT NUMBER  c. SOLICITATION OR OTHER NUMBER <p style="text-align: center;">55-2061-02</p> DUE DATE (YYYYMMDD)			<b>3. THIS SPECIFICATION IS: (X and complete as applicable)</b> <input checked="" type="checkbox"/> a. ORIGINAL (Complete date in all cases) DATE (YYYYMMDD) <p style="text-align: center;">20020529</p> <input type="checkbox"/> b. REVISED (Supersedes all previous specs) REVISION NO. DATE (YYYYMMDD) <input checked="" type="checkbox"/> c. FINAL (Complete item 5 in all cases) DATE (YYYYMMDD)																																																																																						
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <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 this follow-on contract.																																																																																									
<b>5. IS THIS A FINAL DD FORM 254?</b> <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 classified material is authorized for the period of _____																																																																																									
<b>6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)</b> a. NAME, ADDRESS, AND ZIP CODE <p style="text-align: center;">FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD.</p> b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) <p style="text-align: center;">N/A</p>																																																																																									
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**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 releases shall be submitted for approval prior to release  Direct  Through (Specify)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 5524

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 to that agency.

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

Access to classified information is not required for the purpose of submitting a bid/proposal for this statement of work. However, prior to award of contract, the successful contractor will be required to have a SECRET facility clearance, SECRET storage capabilities, and personnel available with DoD granted personnel security clearances commensurate with level of access required for performance of contract.

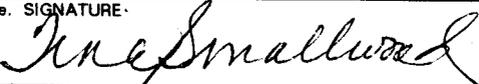
**14. ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract.  Yes  No  
 (If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

**15. INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office.  Yes  No  
 (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.)

**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 TINA SMALLWOOD	b. TITLE CONTRACTING OFFICER, SECURITY	c. TELEPHONE (Include Area Code) (202) 767-2240/2521
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d. ADDRESS (Include Zip Code)  
 NAVAL RESEARCH LABORATORY  
 4555 OVERLOOK AVE., SW  
 WASHINGTON, DC. 20375-5320

e. SIGNATURE  


**17. REQUIRED DISTRIBUTION**

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY

## **PERSONNEL QUALIFICATIONS**

The following labor category descriptions present the minimum personnel requirements for the solicited effort. Each individual proposed must, as a minimum, possess the personal qualifications set forth for the labor category in which the individual is proposed.

### **I. Definitions**

*A. Appropriate Academic Discipline* - refers to the fields of physics, engineering (i.e., electrical, electronic, or digital), computer science, or a related technical field such as mathematics.

*B. General Experience* - includes training and work experience in general scientific or engineering processes and practices.

*C. Related Experience* - includes training and work experience in one or more of the following areas:

- Project Management
- Logistics Analysis
- Prototype Hardware Development
- Microprocessor Design
- Software Development

*D. Specialized Experience* - includes training and work experience in one or more of the following areas:

- Test System Design and Analysis
- Software Development for Testing or Database Applications
- Instrumentation Communications and Bus Networks
- Navy VLF Transmitter Sites and Equipment

### **II. Labor Categories**

**Project Manager** - position requires the following:

A bachelor's degree in Business, Management, Economics, Electrical Engineering or other appropriate academic discipline plus a minimum of five (5) years of project management experience and twelve (12) years of combined general, related, and specialized experience.

Must be able to contribute to the technical effort in support of the Navy General Purpose Electronic Test Equipment Program. Must have demonstrated qualities of leadership and responsibility in managing projects representative of the work described in the SOW. Must have a thorough understanding of Government Acquisition processes and the related testing and engineering analysis requirements of Government equipment acceptance. Must be capable of directing the work of subordinates including engineering staff, and be capable of performing tasks independently. Must review and approve the work performed by program staff and maintain effective liaison with Government and other contractor personnel.

**Senior Systems Engineer** - position requires the following:

A Master's degree in Engineering or an appropriate academic discipline plus a minimum of four (4) years of combined general, related, and specialized experience; or a bachelor's degree in Engineering or an appropriate academic discipline plus a minimum of six (6) years of combined general, related, and specialized experience.

At least three (3) years of general experience must be related to programs or systems addressed in the SOW. Shall have the ability to direct and/or perform all efforts required by this contract. Must have a demonstrated ability to create, review and modify test plans/procedures, and analyze test results. Must be experienced with the design and development of all levels of electronic systems from circuits to complete systems. Must be familiar with the integration of electronic subsystems to form functional systems, and the areas of Logistic support analysis, hardware and software configuration management, and Life Cycle cost analysis. Must be familiar with mechanical, electrical, and structural characteristics of VLF/LF transmitter facilities.

**Electronics Engineer** - position requires the following:

A bachelor's degree in Engineering or an appropriate academic discipline plus a minimum of three (3) years of combined general, related, and specialized experience.

General experience must include actual experience related to programs or systems addressed in the SOW. Must have actual hands-on experience with microprocessor circuit design, integrated circuit technology, and printed circuit board layout and design. Familiarity with prototype equipment design through all phases from concept formulation to fabrication, testing, and deployment is highly desirable.

Must have demonstrated experience with the development of Test Plans, Maintenance Plans, and Test Documentation. Must have demonstrated experience with development of equipment specifications.

**Computer Scientist** - position requires the following:

A bachelor's degree in Computer Science or an appropriate academic discipline plus a minimum of three (3) years of combined general, related, and specialized experience.

General experience must include actual experience related to programs or systems addressed in the SOW. Must have actual hands-on experience with Oracle database systems, SQL, C, C++, and/or Basic. Familiarity with prototype software design through all phases of development to delivery of a documents software product is highly desirable.

Must have demonstrated experience with the development of software documentation and user's manuals. Must have demonstrated experience with development of software specifications. This position requires personnel to be familiar with Defense Research and Engineering Network (DREN/SDREN) network operations electronic equipment and/or system design, installation, and planning, and have knowledge of Department of Defense (DoD) and Service Information Assurance policies and procedures.

**Test Engineer** - position requires the following:

A bachelor's degree in Computer Science or Engineering plus a minimum of four years of combined general, related, and specialized experience. In addition, the general experience must include design of software for military equipment, test instrumentation, and software simulation design. Two (2) years of the general experience shall have been with the programming in BASIC, C, or other computer language. Must have demonstrated experience with the development of all forms of program documentation from conception to delivery of a final users or operators manual. Must also have demonstrated ability in the design of optimized software and of software enhancement for optimization purposes.

**Environmental Test Engineer** - position requires the following:

A bachelor's degree in Engineering or an appropriate academic discipline plus two (2) years of combined general, related, and specialized experience. In addition, the general experience must include test program development and experience in performing temperature, humidity, shock, vibration, and EMI tests.

**Electronic Technician** - position requires the following:

A diploma or certificate from an accredited vocational or technical institution, or completion of military electronics "A" school plus four (4) years of experience with electronic equipment assembly and repair. Must have a demonstrated ability to inspect, test, adjust, and certify electronic equipment or assemblies for compliance to specifications.

**Engineering Model Maker** - position requires the following:

Six (6) years of experience in engineering model making. Must have a demonstrated ability to fabricate from sketches or engineering drawings the more complex parts for new instruments. Must have capability to assemble, test, repair, and inspection of prototype equipment. Must be able to construct special fixtures for testing and assembling of equipment.

**Program Analyst** - position requires the following:

A minimum of five (5) years of general experience, education, or training in the field of program analysis. Three (3) years of experience shall have been in preparing reports and specifications for procurements of GPETE instrumentation. Specific knowledge of the reporting procedures, format, and organization for GPETE reports is required. Must have a demonstrated ability to examine elements of a program and prepare and organize a unified presentation of data. Must have a demonstrated ability to coordinate scheduling aspects of several tasks, provide updated status reports, and coordinate the collection of data used to prepare program support documentation.

**Inventory Manager** - position requires the following:

A minimum of five (5) years of general experience, education, or training in the field of inventory management. Three (3) years of experience shall have been in managing inventory for procurements of GPETE instrumentation. Provide supply support to all the Test Equipment program, including: purchasing new Test Equipment for stock and commercial direct/ship, providing repair services for existing equipment, processing customer orders for supplies or services, managing inventory on 200 plus items (per IM), providing OJT for other IM's, purchasing and distributing equipment in accordance with the National test equipment replacement Program, recommends/provides information regarding upgrades to old/obsolete equipment, processes/addresses customer reported deficiencies via the Customer Service (CS) program, serves on the Center of Excellence for Item Managers and assists in the writing and implementation of Inventory Management work instructions.

**Industrial Service Specialist** - position requires the following:

A minimum of five (5) years of general experience, education, or training in the field of industrial maintenance service. Three (3) years of experience shall have been in developing schedules and assigning work to local shop calibration program. Must have demonstrated ability to: Monitor turn-around times, approves calibration procedures and Production Data Records (PDR), manages Government Furnished Property (GFP), and performs inventories at the contractor facility. Initiate Procurement Requests, manages contract budget, and approves contractor's monthly Billing invoices for the contractor. Monitors quality program and CS program. Procure equipment, service manuals and difficult to obtain parts for the contractor. Coordinate with field and local customers, Contractor Project Manager, Contracting Officer, and AML management to

resolve problems and improve services. Write Statements of Work and performs as Technical Evaluation Team Leader for the contractor.

**Production Controller** - position requires the following:

A minimum of five (5) years of general experience, education, or training in the field of industrial maintenance production control. Three (3) years of experience shall have been in developing schedules and assigning work to maintenance shops and controlling throughput. This person is the focal point for workload planning, scheduling, reviewing, and expediting material for the shop. Must have demonstrated ability to: Initiate work orders/cost data authorization documents to control workload requirements and accomplishments. Prepare production plans for specific projects and operations through compilation of customer requirements, determines the status of work in progress, and time required to complete the job. Expedite jobs in progress by any appropriate means. Review schedules and identifies equipment on the shop repair list, which justify shop repair. Prevent or alleviate production delays and scheduling conflicts. Make determinations of which projects can be rescheduled to accomplish emergency workloads based on knowledge of agency's requirements and Logistic Center commitments. Coordinate with other organizations to resolve conflicts in work schedules. Capture cost and hours for contractor reports.

**Equipment Specialist** - position requires the following:

A minimum of three (3) years of general experience, education, or training in the field of test equipment. One (1) year of experience shall have been in researching and processing requisitions from the field and suggest possible substitutes when appropriate. Must have demonstrated ability to: Research and identify replacement equipment and/or sources for obsolete equipment. Research and identify sources and pricing for equipment. Research and resolve technical problems with equipment performance as requested.

**Technical Reliability Specialist** - position requires the following:

A minimum of five (5) years of general experience, education, or training in the field of test equipment. Three (3) years of experience shall have been in managing field calibration services, purchases test equipment for new system acquisition, provides advice and consulting services on test equipment issues to program offices, and works special projects as the team lead.