

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)

RATING

DO-C9

PAGE OF

1 | 26

PAGES

2. CONTRACT NO.

3. SOLICITATION NO.

N00173-01-R-CR04

4. TYPE OF SOLICITATION

- SEALED BID (IFB)
 NEGOTIATED (RFP)

5. DATE ISSUED

29 MAR 2001

6. REQUISITION/PURCHASE NO.

7. ISSUED BY
CONTRACTING OFFICER
NAVAL RESEARCH LABORATORY
ATTN: CODE 3220.CR
WASHINGTON DC 20375-5326

CODE N00173

8. ADDRESS OFFER TO (If other than Item 7)

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

SOLICITATION

9. Sealed offers in original and 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Bldg 222, Room 115 until 4pm local time 30 APR 2001
 (Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:

A. NAME

Alan Wayne Crupi

B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS)

(202) 767-3595

11. TABLE OF CONTENTS

(✓)	SEC.	DESCRIPTION	PAGE(S)	(✓)	SEC.	DESCRIPTION	PAGE(S)
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES			
X	A	SOLICITATION/CONTRACT FORM	1	X	I	CONTRACT CLAUSES	13-17
X	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2-4	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
X	C	DESCRIPTION/SPECS./WORK STATEMENT	4	X	J	LIST OF ATTACHMENTS	17
X	D	PACKAGING AND MARKING	5	PART IV - REPRESENTATIONS AND INSTRUCTIONS			
X	E	INSPECTION AND ACCEPTANCE	5	X	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	18
X	F	DELIVERIES OR PERFORMANCE	5	X	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	18-24
X	G	CONTRACT ADMINISTRATION DATA	6-9	X	M	EVALUATION FACTORS FOR AWARD	24-26
X	H	SPECIAL CONTRACT REQUIREMENTS	9-13				

OFFER (Must be fully completed by offeror)

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

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

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS	%	20 CALENDAR DAYS	%	30 CALENDAR DAYS	%	CALENDAR DAYS	%
--	------------------	---	------------------	---	------------------	---	---------------	---

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
----------------------------------	------	----------	---

15B. TELEPHONE NO. (Include area code)	<input type="checkbox"/> 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE	18. OFFER DATE
--	---	---------------	----------------

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
-----------------------------------	------------	----------------------------------

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()	23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM
---	---	------

24. ADMINISTERED BY (If other than Item 7)	CODE	25. PAYMENT WILL BE MADE BY	CODE
--	------	-----------------------------	------

26. NAME OF CONTRACTING OFFICER (Type or print)	27. UNITED STATES OF AMERICA (Signature of Contracting Officer)	28. AWARD DATE
---	--	----------------

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

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

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
BASIC 0001	The Contractor shall provide Research and Development Engineering, Systems Analysis, and Program Management services in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423).	NSP *	NSP	NSP
TOTAL EST. COST PLUS FIXED FEE		\$	\$	\$
<i>* Not Separately Priced</i>				
OPTION I 0003	The Contractor shall provide Research and Development Engineering, Systems Analysis, and Program Management services in accordance with Section C.	\$	\$	\$
0004	Data in accordance with Exhibit A (DD 1423).	NSP *	NSP	NSP
TOTAL EST. COST PLUS FIXED FEE		\$	\$	\$

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
OPTION II 0005	The Contractor shall provide Research and Development Engineering, Systems Analysis, and Program Management services in accordance with Section C.	\$	\$	\$
0006	Data in accordance with Exhibit A (DD 1423).	NSP *	NSP	NSP
TOTAL EST. COST PLUS FIXED FEE		\$	\$	\$
OPTION III 0007	The Contractor shall provide Research and Development Engineering, Systems Analysis, and Program Management services in accordance with Section C.	\$	\$	\$
0008	Data in accordance with Exhibit A (DD 1423).	NSP *	NSP	NSP
TOTAL EST. COST PLUS FIXED FEE		\$	\$	\$

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
OPTION IV 0009	The Contractor shall provide Research and Development Engineering, Systems Analysis, and Program Management services in accordance with Section C.	\$	\$	\$
0010	Data in accordance with Exhibit A (DD 1423).	NSP *	NSP	NSP
TOTAL EST. COST PLUS FIXED FEE		\$	\$	\$

**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 Dec 2000 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

C-3 SUBCONTRACTING PLAN

Subcontracting Plan * dated is hereby incorporated by reference and made a material part of this contract.

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

**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

- | | | |
|----------|---|--|
| 52.246-8 | - | Inspection Of Research And Development - Cost Reimbursement (APR 1984) |
| 52.246-9 | - | Inspection Of Research And Development (Short Form) (APR 1984) |

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, with 4 options, which 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 Naval Research Laboratory, Washington, D.C. 20375.

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.

Contract Matters- *

Security Matters- *

Safety Matters- *

Patent Matters- *

Release of Data- *

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 1008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

(To be completed at time of award)*

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
-------------------------------	----------------

(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 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

The purpose of these instructions is to permit the paying office to charge the accounting classification citations in the contract in a manner that reflects the performance of the contract. These instructions do not create any obligation on the part of the Government or the contractor nor do they in any way alter any obligation created by any other provision of the contract. Invoices should be paid from available ACRNs in the following order:

- (a) ACRNs cited on the contractor's invoice.
(b) On a proportional basis from any ACRNs assigned to funds which will cancel at the end of the current fiscal year.
(c) The ACRN assigned to the following line of accounting:
97X4930.NH4A 000 77777 0 000173 2F 000000 N00173Z45000.
(d) If funds appropriated in more than one fiscal year are allotted to the contract, the ACRN assigned to the oldest allotment of funds.
(e) On a proportional basis from all ACRNs assigned to allotments of funds appropriated in a single fiscal year.

**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 fifteen (15) days in advance (thirty (30) 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:

LABOR CATEGORY	NAME OF INDIVIDUAL
Section Manager	* (To be completed at time of award)

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 23,850 total hours of direct labor for the basic award, and approximately 26,100 total hours for each option, if exercised, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. 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 1988 hours per month for the basic award and 2175 hours per month for each option period, if exercised. 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:

Labor Category	Basic	Option I	Option II	Option III	Option IV
<i>Tasks 3.1 through 3.8</i>					
Section Manager	900	900	900	900	900
Senior Simulations System Engineer	1800	1800	1800	2700	2700
Computer Scientist / Software Engineer	1800	1800	1800	1800	2400
Digital Systems Design Engineer	1800	1800	1800	1800	1800
Computer Scientist / Digital Engineer	2250	2250	3000	3000	3000
RF-Microwave Engineer	1800	2700	2700	2700	2700
Quality Assurance Engineer	450	450	450	450	450
Administrative Support	450	450	600	600	900
<i>Tasks 3.9 through 3.10</i>					
Military System Analyst	1800	1800	1800	1800	1800
Technical Program Specialist / Analyst	3600	3600	3600	3600	3600
Digital EW Engineer	1800	1800	1800	1800	1800
Computer Scientist	1800	1800	1800	1800	1800
Senior RF - Microwave Systems Engineer	1800	1800	1800	1800	1800
Administrative Support	1800	1800	1800	1800	1800

H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 97)

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: ANSI Z39.18 may be obtained from NISO Press Fulfillment Center, P. O. Box 338, Oxon Hill, MD. 20750-0338. Telephone 1-800-282-6476]

H-5 OPTION TO EXTEND TERM

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer's notice of renewal to the Contractor within the existing term of the contract.

H-6 ON-SITE USE OF GOVERNMENT PROPERTY

Government facilities and equipment specified or approved for use in the performance of any portion of the contract at the U.S. Naval Research Laboratory (NRL) or any of its field sites may be used by the contractor's personnel on a rent free basis. All such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-7 YEAR 2000 COMPLIANT INFORMATION TECHNOLOGY

This requirement applies to information technology (IT) that processes date-related information. All such IT delivered under this contract shall be Year 2000 compliant as defined at FAR 39.002.

H-8 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.

**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 (OCT 1995)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52-203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)
52.204-2	- Security Requirements (AUG 1996)
52.204-4	- 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 (JUNE 1999)
52.215-8	- Order Of Precedence - Uniform Contract Format (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)
(*will be included if the successful offeror does not propose facilities capital cost of money*)
- 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 Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (MAR 2000)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999) Offeror elects to waive the evaluation preference.
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-9 - Small Business Subcontracting Plan (OCT 2000) - Alternate II (JAN 1999)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 1999)
- 52.219-25 - Small Disadvantaged Business Participation Program-Disadvantaged Status And Reporting (OCT 1999)
- 52.222-1 - Notice To The Government Of Labor Disputes (FEB 1997)
- 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)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (FEB 1999)
- 52.222-35 - Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 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 (JAN 1997)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.226-1 - Utilization Of Indian Organizations And Indian-Owned Economic Enterprises (JUN 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)
- 52.227-11 - 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*)
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)
(*will be included if the successful offeror is not 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)
- 52.232-17 - 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 (JUN 1997)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-10 - Identification of Uncompensated Overtime (OCT 1997)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (OCT 1995)
- 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 And Commercial Components (OCT 1998)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 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

DFARS CLAUSE TITLE

- 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)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 2000)

- 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)
- 252.219-7003 - Small Business And Small Disadvantaged Business Subcontracting Plan (DoD Contracts) (APR 1996)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7012 - Preference For Certain Domestic Commodities (AUG 2000)
- 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)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995) - Alternate I (JUN 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995) - Alternate I (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)
- 252.227-7030 - 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)
- 252.235-7010 - 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 (MAR 2000)

- 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 (MAY 1995)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (JUN 1996)

(a) Definitions.

"Ozone-depleting substance", as used in this clause, means any substance designated as Class I by the Environmental Protection Agency (EPA) (40 CFR Part 82), including but not limited to chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or any substance designated as Class II by EPA (40 CFR Part 82), 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 - 11 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 5 Pages.
- J-2** Attachment (2) – Personnel Qualifications, 11 Pages
- J-3** Attachment (3) - DD Form 254, Contract Security Classification Specification, Ser 048-00 Dated 20001215, 2 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>

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (OCT 2000)

The fill in information is as follows:

The NAICS code for this acquisition is 541710.

The small business size standard is 500.

**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 (FEB 2000)
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)
52.219-24	-	Small Disadvantaged Business Participation Program - Targets (JAN 1999)
52.222-24	-	Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
52.252-5	-	Authorized Deviations In Provisions (APR 1984)

L-2 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-3 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) See Section L, Volume II - Business Proposal

L-4 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

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

L-5 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-6 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 or 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-7 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-8 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-9 INQUIRES 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-10 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS

(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 Identification/Mailing - The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

Solicitation No. N00173-00-R-CR04
Closing Date: (As specified in Block 9, RFP face page)
Attn: Code 3220.CR

(3) 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-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES.

Offerors must propose in accordance with H-3 Level of Effort, Paragraph (k).

A. PERSONNEL QUALIFICATIONS

The offeror must provide resumes of proposed personnel. The resume must reflect experience and qualifications of the proposed personnel relevant to the proposed task; the quantity and quality of the Offeror's corporate experience relevant to the proposed task; and previous experience of the personnel including the degree to which they meet the requirements set forth in the Personnel Qualifications.

B. TECHNICAL UNDERSTANDING

Provide documentation to support the understanding of each of the technical requirements (task areas) in the SOW. Provide documentation to reveal knowledge of project monitoring and control, achievement of task assignments, on-time completion, quality assurance, resource management, and responsiveness to workload fluctuation in support of multiple tasks.

C. MANAGEMENT PLAN

The Offeror shall provide documentation to show corporate ability to simultaneously coordinate numerous interrelated technical and management support tasks of similar size and complexity as this requirement. The offeror shall provide documentation of experience involving similar research, set

forth in the SOW and establishing internal systems for effective continuity, quality assurance, and contract completion.

L-12 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 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.

(2) SMALL BUSINESS PARTICIPATION

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (Jan 1999) with its Alternate II, proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) Proposals must also include information to permit evaluation of the extent of participation of small disadvantaged business concerns in performance of the contract. See the provision at FAR 52.219-24, Small Disadvantaged Business Participation Program--Targets (Jan 1999), and the clause at 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (Jan 1999). Any targets will be incorporated into and become part of any resulting contract. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

L-13 MATERIAL ESTIMATE (FOR EVALUATION PURPOSES ONLY)

The material estimate and other direct costs set forth MUST be included in each offeror's cost proposal for evaluation purposes only. During the term of the contract, the contractor will be reimbursed actual and verifiable material and other direct associated expenses.

The Government estimates the material cost for this effort as follows:

Basic:	\$227,000.00
Option I (if exercised):	\$243,000.00
Option II: (if exercised)	\$260,000.00
Option III: (if exercised)	\$278,000.00
Option IV: (if exercised)	\$298,000.00

L-14 TRAVEL ESTIMATE (FOR EVALUATION PURPOSES ONLY)

The travel estimate and other direct costs set forth MUST be included in each offeror's cost proposal for evaluation purposes only. During the term of the contract, the contractor will be reimbursed actual and verifiable travel and other direct associated expenses in accordance with federal travel guidelines.

The Government estimates the travel cost for this effort as follows:

Basic:	\$10,000.00
Option I (if exercised):	\$10,000.00
Option II: (if exercised)	\$10,000.00
Option III: (if exercised)	\$10,000.00
Option IV: (if exercised)	\$10,000.00

**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 Personnel Qualifications factor is of more importance than Technical Understanding and Management Plan. Technical Understanding and Management Plan are of equal importance.

M-2-1. TECHNICAL/MANAGEMENT**(1) PERSONNEL QUALIFICATIONS**

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the proposed task, the quantity and quality of the Offeror's corporate experience relevant to the proposed task; and the previous experience of the key personnel including the degree to which they meet the requirements set forth in the Personnel Qualifications.

(2) TECHNICAL UNDERSTANDING

Evaluation will be based on the demonstrated overall soundness, ability to understand, and accomplish the technical requirements in the SOW.

(3) MANAGEMENT PLAN

Evaluation will be based on the extent of corporate experience in performing, accomplishing, and managing projects related specifically to tasks in the SOW. The soundness of the Offeror's project management approach for accomplishing the tasks in the SOW.

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-2-3 SMALL BUSINESS PARTICIPATION

(a) The extent of participation of small businesses and historically black colleges or universities and minority institutions in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) The extent of participation of small disadvantaged business concerns in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

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

**R&D ENGINEERING, SYSTEMS ANALYSIS, AND PROGRAM MANAGEMENT
FOR
TACTICAL ELECTRONIC WARFARE SIMULATIONS**

Table of Contents

Table of Contents

1.0 Background

2.0 Scope

3.0 Task Requirements

3.1 CTS Facility Development and Operations Support

3.2 Special Projects Support

3.3 Software Development to Support Branch Facilities, Operations, and Projects

3.4 Research and Development of RF-Modulation Hardware and Control Software

3.5 Development of RE-Guided Anti-Ship Missile Seekers and Simulators

3.6 Investigation and Development of a Generic Architecture to Emulate Advanced Signal-Processing Hardware Components

3.7 Development and Integration of New, Verifiable, Real-Time HIL Modeling

3.8 Quality Assurance

3.9 Program Development and Conference Support

3.10 In-Service Defense Reliance Technology Panel for Electronic Warfare Support

4.0 Reviews

STATEMENT OF WORK

R&D ENGINEERING, SYSTEMS ANALYSIS, AND PROGRAM MANAGEMENT FOR TACTICAL ELECTRONIC WARFARE SIMULATIONS

1.0 BACKGROUND

This Statement of Work (SOW) specifies R&D Engineering, Systems Analysis, and Program Management support of various Integrated Electronic Warfare Simulations (IEWS) Branch activities and the Central Target Simulator (CTS) Facility at the Naval Research Laboratory (NRL).

The IEWS Branch is an integral part of NRL's Tactical Electronic Warfare (TEW) Division. The primary mission of the IEWS Branch is to conduct a multifaceted simulation program to advance U.S. Navy RDT&E. As an integral part of the Navy's Effectiveness of Naval EW Systems (ENEWS) Program, it provides for the research development, operation, and maintenance of RF antiship missile (ASM) simulators, a large hardware-in-the-loop simulation facility (the Central Target Simulator), and a specially-equipped NP-3D flying Electronic Warfare (EW) laboratory. These assets directly support the effectiveness evaluation of current systems and future EW systems and techniques in the Radio Frequency (RF) domain. The Branch also includes a Special Projects Section that conducts investigations and performs analyses of military hardware that support threat-simulator and electronic-countermeasures developments.

Knowledge of the following systems will be necessary in satisfying the stated task requirements:

- RF-ASM Simulators-Hardware versions
- Hybrid/HIL laboratory simulation facilities - ASM engagement simulation
- Electronic Attack (EA) systems and techniques - passive and active

2.0 SCOPE

The Contractor shall provide the following support tasks:

2.1 CTS Facility Development and Operations;

2.2 Special Projects;

2.3 Software Development;

- 2.4 Research and Development of RF-Modulation Hardware and Control Software;
- 2.5 Development of RF-Guided Anti-Ship Missile Seekers and Simulators;
- 2.6 Investigation and Development of Generic Architecture to Emulate Advanced Signal-Processing Hardware Components;
- 2.7 Development and Integration of New, Verifiable, Real-Time Hardware-In-The-Loop (HIL) Models;
- 2.8 Quality Assurance;
- 2.9 Program Development and Conference Support;
- 2.10 In-Service Defense Reliance Technology Panel for Electronic Warfare (DR/TPEW) Support.

3.0 TASK REQUIREMENTS

3.1 CTS Facility Development and Operations Support Task

The contractor shall provide maintenance, operations, and development/upgrade support for the CTS Facility. The CTS Facility is a state-of-the-art laboratory test facility consisting of a large shielded anechoic chamber, a three-axis flight table, RF generation and modulation equipment, an array of microwave antennas, and both analog and digital control subsystems. The contractor shall provide support in the disciplines of RF engineering, software engineering, analog and digital-control system engineering, as well as interface engineering. The contractor shall coordinate its engineers assigned to support the CTS their activities and collaborate with cognizant NRL employees. The contractor shall document their work in accordance with the Contract Data Requirements List (DD 1423). In the RF realm, the contractor shall provide expertise to assist with Facility calibration. The contractor shall assist with RF-component (e.g., amplifier, phase shifter, attenuator, switch, etc.) troubleshooting as well as routine maintenance and repair of RF equipment. The contractor shall design, fabricate, integrate, and test major RF subsystem upgrades to the facility. These upgrades will primarily be in the areas of calibrated frequency agility, high-fidelity radar-return generation, inter-pulse amplitude modulation, as well as intra-pulse amplitude, frequency, and phase modulation. In the software engineering area, the contractor shall maintain and upgrade existing custom software used throughout the facility. CTS Facility software is used to control RF-target generation, RF amplification, and elements of the microwave antenna-array subsystem. Custom-device drivers for the fiber-optic network, used throughout the facility, shall be maintained and upgraded by the contractor. In the area of control engineering, the contractor shall maintain and

upgrade the open-loop test control program, based upon customer requirements. Currently, two computing environments predominate in the Facility -- Intel x86 types in the Windows operating systems (Win98/NT/2000) and MIPS RISC in SGI under the IRIX operating system. The contractor shall maintain the existing analog and digital control systems and interfaces, primarily the two Target Array Controller (TAC) systems; however, the contractor shall upgrade these systems or design and develop entirely new control systems. Much of this work involves custom printed-circuit boards. Many of these boards host field-programmable gate array (FPGA) devices. Thus, the contractor shall support the current design or design new FPGA logic. To date, the FPGAs most utilized are from the Altera product line. However, other vendors may be included in future development activities. The correct handling of multiple signals, with timing accuracy in the nanosecond range, is critical for valid Facility operation and is a major design factor that shall be considered by the contractor. The contractor shall design, fabricate, integrate, and test new control systems and interfaces. The contractor shall support facility operations during a series of experimental test runs; this includes the operation and maintenance of facility subsystems during such test runs. This task shall include the following:

- 3.1.1 The contractor shall provide RF engineering design, integration, test, and documentation of upgrades to the facility;
- 3.1.2 The contractor shall troubleshoot and repair the existing RF components as well as provide system and subsystem performance analysis and calibration support;
- 3.1.3 The contractor shall provide engineering design, integration, testing, and documentation of digital circuit boards as well as the circuits located in facility upgrades;
- 3.1.4 The contractor shall provide engineering design and design documentation of larger scale components and subsystems;
- 3.1.5 The contractor shall provide design, or redesign, of FPGA logic located on new or existing custom printed circuit boards as well as the related documentation;
- 3.1.6 The contractor shall provide software design, development, and testing using existing processors such as Intel Win98/NT/2000 and MIPS RISC in SGI under IRIX as well as providing design/redesign documentation;
- 3.1.7 The contractor shall provide support, including hardware and software upgrades as well as development of new network nodes, for fiber-optic network and associated custom software drivers;
- 3.1.8 The contractor shall provide support of facility operations during testing programs.

3.2 Special Projects Support Task

The contractor shall support the Branch's Special Projects section. The contractor shall provide reverse engineering of electronic and RF portions of autonomous flyable systems (i.e. miniature, heavier than air, pilotless airborne vehicles). These flyable systems may have very little or no prior documentation; also, they may contain older-to-modern components such as discrete and integrated circuitry as well as embedded computers. The contractor's reverse-engineering activities shall include investigating computer software and system hardware. The contractor shall thoroughly document their findings and closely collaborate with NRL to develop a detailed understanding of subsystem functions and overall system performance. The Contractor shall design hardware and/or software tools to assist the reverse-engineering process. The Contractor shall design and develop control panels for these systems after all subsystem functions and complete system performance are understood. To increase the understanding of system operation, the control panel designer initially requires an in-depth understanding and detailed documentation of all interface signals that either control the system or receive data from the system. Another aspect of control panel design requires Contractor's attention to the user interface that may either be implemented traditionally via hardware, or virtually via computer display (using a mouse, trackball, keys, keyboard, touch screen, or other facilities). In addition, the contractor shall investigate and develop architectures for emulating advanced signal-processing hardware components (e.g., microprocessors and Digital Signal Processors (DSPs)) found in modern threats. This task shall include the following:

3.2.1 The contractor shall provide reverse engineering of electronic, RF, and software components for autonomous flyable systems;

3.2.2 The contractor shall document reverse-engineering findings;

3.2.3 The contractor shall design, develop, and document reverse-engineering support techniques and tools;

3.2.4 The contractor shall design, develop, and document engineering support of flyable system (miniature, heavier than air, pilotless airborne vehicles) control panels;

3.2.5 The contractor shall design, develop, and document digital hardware, firmware, and software subsystems used to emulate threat system processors in reverse-engineering support tasks.

3.3 Software Development to Support Branch Facilities, Operations, and Projects Task

The contractor shall provide support of software development related to various elements of NRL facilities, operations, and projects such as research and development

of algorithms for missile models, target scenario and environment models, HIL user-interface; simulation-results visualization, both real-time and post-run, or the development of software for hardware control, i.e., Three-Axis Flight Simulator (TAFS), antenna, or EA/RF equipment. The contractor shall develop software for programmable (pod-mounted) systems or design FPGA and microcontroller firmware. The contractor shall design, upgrade, and maintain several NRL computer networks and configure various operating systems used within NRL such as IRIX, VxWorks, and Win98/NT/2000. The contractor shall investigate and implement upgrades to the HIL software used in CTS in order to improve scenario databases, user interface, and HIL operation. The contractor shall coordinate their activities with the COR and document their work. This task shall include the following:

3.3.1 The contractor shall research, develop, and document algorithms for missile models, target scenarios, environment models, and HIL user-interface;

3.3.2 The contractor shall develop and document methods and means to visualize HIL simulations, both real-time and post-run;

3.3.3 The contractor shall develop and document software used for hardware control of the TAFS, antenna, and EA/RF equipment;

3.3.4 The contractor shall develop and document software used in programmable, pod-mounted systems on both the application and driver levels;

3.3.5 The contractor shall develop and document FPGA and microcontroller firmware used in programmable, pod-mounted systems;

3.3.6 The contractor shall design, upgrade, maintain, and document the several NRL computer networks; and

3.3.7 The contractor shall configure and document the various operating systems.

3.4 Research and Development of RF-Modulation Hardware and Control Software Task

The contractor shall research options and develop RF-modulation hardware and control software required to generate high-fidelity target and decoy radar returns for real-time HIL tests in the CTS Facility. Strong emphasis shall be placed on developing the capability to accurately trigger the special target discrimination features that are found, or postulated to exist in advanced threats. These discriminating features must be triggered properly in laboratory environments in order to evaluate EW effectiveness.

The research shall include areas such as inter- and intra-pulse amplitude, frequency and phase modulation as well as calibrated wide-band frequency agility and radar-return modeling. This task shall include the following:

3.4.1 The contractor shall implement and document a mechanical cross-pol generation system to support definition of EA techniques;

3.4.2 The contractor shall provide the written evaluation of vector modulators from several sources for use in intra-pulse modulation;

3.4.3 The contractor shall select a vector modulator; implement and document non-dynamic amplitude pulse-shaping for near-term application to test requirements;

3.4.4 The contractor shall expand and document vector modulator capability to include dynamic (i.e., pulse-to-pulse) amplitude and phase shaping in support of future test requirements;

3.4.5 The contractor shall provide and document calibrated frequency agility used for HIL experiments.

3.5 Research and Development of RF-Guided Anti-Ship Missile (ASM) Seekers and Simulators Task

The Contractor shall research and develop RF-guided antiship missile (ASM) simulators with advanced signal processing and target discrimination capabilities. These assets shall be designed for laboratory and field environment applications and shall provide the means to assess and improve the Navy's EW response to evolving ASM technologies. Initially, this task shall focus on the Navy's requirement for high performance EW test platforms and improved test-platform instrumentation. This task shall include the following:

3.5.1 The contractor shall investigate use of captive-carry platforms. The contractor shall document analysis of available test data as well as miniaturization of seeker-simulator control panel and data collection electronics;

3.5.2 The contractor shall adapt a Harpoon simulator with a compact data-collection system for flight testing aboard a supersonic, low altitude aircraft (e.g., F-104);

3.5.3 The contractor shall investigate and document conclusions with regard to adding coherent-on-receive (COR) simulation capability;

3.5.4 The contractor shall participate in, as well as document, controlled at-sea testing to evaluate differences between NP-3D and alternative aircraft.

3.6 Investigation and Development of Generic Architecture to Emulate Advanced Signal-Processing Hardware Components Task

The contractor shall investigate and develop a generic architecture to emulate embedded advanced signal-processing hardware components (i.e. modem microprocessor and digital signal processing integrated circuits) anticipated to be used in next-generation threats. The contractor shall develop a flexible architecture that can be (a) used to analyze and simulate specific threat systems and (b) quickly adapted to new or modified threat architectures subsequently acquired, simulated, and modeled. The finished product will be a suitable analysis system for portions of all such threats. This task shall include the following:

- 3.6.1. The contractor shall develop a system specification/description document;
- 3.6.2 The contractor shall design, develop, and document system components;
- 3.6.3 The contractor shall provide and document a functional system-specific emulation/simulation hardware/software package.

3.7 Development and Integration of New, Verifiable, Real-Time HIL Modeling Task

The contractor shall develop and integrate new, verifiable, real-time HIL models (e.g., target, environment, missile, etc.), placing emphasis on OEM seeker-simulators that become available in the near term. The contractor shall explore development of standardized modular interfaces to facilitate model portability between HIL and all-digital simulation environments. This task shall include the following:

- 3.7.1. The contractor shall define and document required upgrades of the existing scenario processor and user interface software to support HIL operations.
- 3.7.2. The contractor shall develop, integrate, and document simulator control panels for use in HIL simulation.

3.8 Quality Assurance Task

The contractor shall, for any specific system, subsystem, or software components developed by the contractor, perform quality control and assurance. This shall include:

- 3.8.1 Participating in project reviews to ensure that deliverable items meet technical and maintainability requirements, etc.

3.8.2 Review project technical and maintenance documentation to ensure readability and adequacy.

3.8.3 Participate in development of test plans, test conduct, and maintenance of test documents to ensure thoroughness and repeatability.

3.9 Program Development and Conference Support Task

The contractor shall provide support to the Navy in areas of program development and conference support. Program and conference development support includes subtasks such as coordinating program participants, conducting facilitator meetings, developing program information and participant packets, conducting and participating in action-status meetings, program requirements reviews, and program walkthroughs. The contractor shall, at all program events, include registration, operation of a message center, graphics, printing of schedules and executive summaries, computer coordination, and audio/visual presentations. After-action support shall include preparation of final reports and briefing packages as well as web site updates. The contractor shall coordinate input from several organizations to various plans, refinement of such plans, circulation back to organizations for comment, preparation of final versions, and distribution to required parties. In addition, the contractor shall develop briefing materials for ongoing and new-concept programs.

3.10 Tri-Service Defense Reliance Technology Panel for Electronic Warfare (DR/TPEW) Support Task

The Contractor shall provide support to the Defense Reliance Technology Panel for Electronic Warfare (DR/TPEW), a tri-service panel. Much of the work of this panel is performed at a classified level, thus the contractor must have personnel and facilities to handle classified information. A major portion of the effort relates to various meetings, briefings and reviews held by committees of the DR/TPEW that includes RFCM (Radio Frequency Control Measures), C3CM (Command, Control, Communication and Countermeasures), and EO/IRCM (Electro Optical/Infrared Counter Measures). The contractor shall provide preparation for subcommittee, committee, and DR/TPEW panel conferences; support and/or hosting of said conferences; and post-meeting documentation. Preparation work includes coordination with the service principals, drafting of agendas/schedules, iterative finalization among the participants, and coordination of facilities that often include use of contractor's facilities in the Washington, DC metro area. Support or hosting of such conferences shall include registration, operation of a message center, graphics, printing of schedules and executive summaries, and coordination of computer and audio/visual presentations. Post-conference support shall include preparation of minutes, final reports and briefing packages (in print or CD format - format to be determined by the government), and web

site updates. These conferences are sometimes held at facilities outside the Washington, DC area, such as Air Force facilities in Rome, NY; WPAFB, OH; or Army facilities in Ft. Monmouth, NJ. Under Defense Reliance Technology Area Review and Assessment (TARA), the TPEW programs fall within the Sensors, Electronics, and Electronic Warfare (SEEW) Defense Technology Area Plan (DTAP). There are multiple Defense Technology Objectives (DTO) involved in this area. The Contractor shall provide support to the TPEW by coordinating the many reporting requirements with DOD personnel in charge of the TARA and DTAP boards. This also includes working with the TPEW service principals and committee chairs to ensure DOD-established deadlines are met.

The contractor shall develop and update databases in regard to host-program information related to the TPEW such as S&T Work Unit Summaries. The contractor shall coordinate inputs with similar databases that are located in individual service committees and then derive inputs from such review materials. The TPEW has established a web site that can be accessed by the principals and committee chairpersons. The contractor shall control and maintain the website. This web site has security provisions to prevent unauthorized access.

The contractor shall draft assignment-appointment letters and arrange for laboratory briefings and visits of new TPEW committee positions to the tri-service EW laboratories. The contractor shall coordinate inputs as well as the drafting and iterative finalization of documents that may be reviewed at meetings and/or published in print or displayed on web sites.

4.0 REVIEWS

The contractor shall participate in program, project, or other reviews the Government may periodically schedule. Participation shall include, but not be limited to, the following: preparation of presentation material, attendance at reviews, and presentation of subject matter. Such periodic reviews may be conducted at Government and/or Contractor facilities.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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 Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002, 0004, 0006, 0008, 0010	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ X _____
--	------------------------	---

D. SYSTEM / ITEM 0001	E. CONTRACT / PR NO. 57-6021-01	F. CONTRACTOR
---------------------------------	---	----------------------

1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Monthly Expenditure Report	3. SUBTITLE
---------------------------------	--	--------------------

4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE All Tasks	6. REQUIRING OFFICE NRL Code 5761
--	---	---

7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 30DAC	14. DISTRIBUTION	
----------------------------	-----------------------------------	-------------------------------	--	-------------------------	--

8. APP CODE N/A	9. DIST STATEMENT REQUIRED N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION *	a. ADDRESSEE	b. COPIES	
---------------------------	--	-----------------------	---	---------------------	------------------	--

16. REMARKS The contractor shall provide a monthly report pertaining to the preceding month, by the 10th workday of each month. (1) This report shall include the following information: (a) Reporting period (b) Contract number (c) Contract value (d) Current funding (e) Amount expended in current period (f) Total expenditure to date (g) Total remaining funds (h) Date submitted (2) For each individual charged to direct labor on the contract, provide the following information: (a) Individuals name and number of hours charged (b) Total cost to the contract due to all direct labor (c) Itemize other costs such as material, travel, and subcontracts (3) Since funds are incrementally applied to the contract, the COR may specify the breakdown of funds versus each required task. For each required task, the monthly report shall include the following data: (a) Cumulative applied funding (b) Monthly expenditure (c) Remaining funds (4) One task may be to establish an account for direct labor and other charges that support the contract as a whole. * 10th workday of month	14. DISTRIBUTION												
	COR												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td colspan="2" style="width: 80%; text-align: center;">Final</td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg</td> <td style="text-align: center;">Repro</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </table>			Final		Draft	Reg	Repro		1	1	1	1
		Final											
Draft	Reg	Repro											
1	1	1	1										
	15. TOTAL → 1 1												

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY NRL Code 5761	H. DATE 01/30/01	I. APPROVED BY	J. DATE
--	----------------------------	-----------------------	----------------

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

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 Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002, 0004, 0006, 0008, 0010	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ X _____
--	------------------------	---

D. SYSTEM / ITEM 0001	E. CONTRACT / PR NO. 57-6021-01	F. CONTRACTOR
---------------------------------	---	----------------------

1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM Technical Program Support Document	3. SUBTITLE
---------------------------------	--	--------------------

4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE All Tasks	6. REQUIRING OFFICE NRL Code 5761
--	---	---

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	9. DIST STATEMENT REQUIRED N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
						Draft	Final
						Reg	Repro

16. REMARKS The contractor may be requested by the COR to provide or develop various documents to support the overall program. The following are example documents that may be required: (a) System or subsystem hardware/software enhancement documents (b) CTS chamber test plans (c) System or subsystem maintenance documents (d) Briefing and presentation material	15. TOTAL →
--	--------------------

17. PRICE GROUP
18. ESTIMATED

1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM Major Task Documentation	3. SUBTITLE
---------------------------------	--	--------------------

4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE All Tasks	6. REQUIRING OFFICE NRL Code 5761
--	---	---

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	9. DIST STATEMENT REQUIRED N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
						Draft	Final
						Reg	Repro

16. REMARKS The contractor shall provide engineer design, integration, and testing design data for the CTS facility development and operations tasking.	15. TOTAL →
---	--------------------

17. PRICE GROUP
18. ESTIMATED

G. PREPARED BY NRL Code 5761	H. DATE 01/30/01	I. APPROVED BY	J. DATE
--	----------------------------	-----------------------	----------------

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

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 Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002, 0004, 0006, 0008, 0010	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____ X _____
--	------------------------	---

D. SYSTEM / ITEM 0001	E. CONTRACT / PR NO. 57-6021-01	F. CONTRACTOR
---------------------------------	---	----------------------

1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM OPNAV N91 & JDL TPEW Support document	3. SUBTITLE
---------------------------------	---	--------------------

4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE SOW 3.9 - 3.10	6. REQUIRING OFFICE NRL Code 5761
--	--	---

7. DD 250 REQ NO	8. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Reg	Repro

16. REMARKS For associated on-going tasking, the contractor shall provide the following when requested by the COR. (a) Conference participant information package (b) Conference minutes, proceedings, compilations, action-summaries (c) Program planning and development documentation and source software (d) Web site development documentation and source software (e) Database design documentation and data updates (f) Program briefing package (computer-based and/or hardcopy)	15. TOTAL → 2
--	----------------------

1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM Final Report	3. SUBTITLE
---------------------------------	--	--------------------

4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE All Tasks	6. REQUIRING OFFICE NRL Code 5761
--	---	---

7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE *	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES		
					Draft	Final	
						Reg	Repro

16. REMARKS The contractor shall provide a final report identifying the overall tasking and programs. This shall be a comprehensive report identifying problems, problems solved, recommendations and overall views of the program. This report may encompass other tasking reports provided during the life of the program. * Final report is due NLT 30 working days after contract completion.	15. TOTAL → 3
--	----------------------

G. PREPARED BY NRL Code 5761	H. DATE 01/30/01	I. APPROVED BY	J. DATE
--	----------------------------	-----------------------	----------------

17. PRICE GROUP
18. ESTIMATED

17. PRICE GROUP
18. ESTIMATED

PERSONNEL QUALIFICATIONS

**R&D ENGINEERING, SYSTEMS ANALYSIS, AND PROGRAM MANAGEMENT
FOR
TACTICAL ELECTRONIC WARFARE SIMULATIONS**

**Naval Research Laboratory
4555 Overlook Avenue, SW
Washington, DC 20375**

**Integrated Electronic Warfare Simulation Branch
Tactical Electronic Warfare Division**

Table of Contents

Table of Contents

- 1.0 Labor Categories for Statement of Work Tasks in Sections 3.1 through 3.7
 - 1.1 Section Manager
 - 1.2 Senior Simulations System Engineer
 - 1.3 Computer Scientist/Software Engineer
 - 1.4 Digital Systems Design Engineer
 - 1.5 Computer Specialist/Digital Engineer
 - 1.6 RF/Microwave Engineer
 - 1.7 Quality Assurance Engineer
 - 1.8 Administrative/Clerical Support
- 2.0 Labor Categories For Statement of Work Tasks In Sections 3.9 and 3.10
 - 2.1 Military System Analyst
 - 2.2 Technical Program Specialist/Analyst
 - 2.3 Digital EW Engineer
 - 2.4 Computer Scientist
 - 2.5 Senior RF/Microwave Systems Engineer
 - 2.6 Administrative/Clerical Support

PERSONNEL QUALIFICATIONS

**R&D ENGINEERING, SYSTEMS ANALYSIS, AND PROGRAM MANAGEMENT
FOR
TACTICAL ELECTRONIC WARFARE SIMULATIONS**

**1.0 LABOR CATEGORIES FOR STATEMENT OF WORK (SOW) TASKS IN
SECTIONS 3.1 THROUGH 3.8**

**1.1 SECTION MANAGER (This individual will oversee contractor on-site personnel
in SOW Sections 3.1 through 3.8.)**

Education:

Shall have at least a BS (Bachelor of Science) degree in Electrical Engineering (EE).

AND

Experience:

Shall have a least 5 years EE R&D work experience in EW technical support for Real-Time Microprocessor-Based System Hardware and Software Design; Computer Work Station applications for EW R&D; and Management support of small groups (3 to 5 engineers).

**1.2 SENIOR SIMULATIONS SYSTEM ENGINEER (This category is required for
SOW Sections 3.1, 3.3, and 3.7)**

Education:

Shall have at least a BS degree in EE, Physics, or Mathematics.

AND

Experience:

Shall have at least 15 years work experience in the design and development of Hardware-In-The-Loop (HIL) Simulation Systems and at least 10 years work experience in two or more of the six subject areas indicated below

- 1) Mini/Microcomputer Real-Time Software Design and Development;
- 2) Intel 80586 (Pentium class), VME Bus, and Fiber-Optics Data Transmission;
- 3) Data Encoding, Formatting, and Processing;
- 4) Digital Hardware Design and Development;
- 5) EW System Test and Evaluation; and
- 6) Electronic-Attack (EA) Techniques.

1.3 COMPUTER SCIENTIST/SOFTWARE ENGINEER (This category is required for SOW Sections 3.1, 3.3, and 3.7)

Education:

Shall have at least a BS degree in Computer Science (CS) or EE (with emphasis in CS).

AND

Experience:

Shall have at least 5 years work experience as a Computer Scientist or Software Engineer, which includes experience programming in at least three of the following subject areas:

- 1) Microprocessor systems, including programming RF/Microwave Controllers, analog circuits and high-speed data collection systems;
- 2) Application of Intel-Based Operating Systems, and UNIX and/or Vx Works Operating Systems; C and C++ Programming Languages; and Intel and Motorola Microprocessors;
- 3) Application of standard programming procedures to scientific and analytical calculations;
- 4) Computer-controlled Hardware-In-The-Loop (HIL) Real-Time Simulation;
- 5) Multiprocessor Systems Communication via Fiber-Optic Shared-Memory Interfaces for real-time simulation.

1.4 DIGITAL SYSTEMS DESIGN ENGINEER (This category is required for SOW Sections 3.1, 3.2, 3.4, 3.5, 3.6, 3.7)

Education:

Shall have at least a BS degree in Electrical Engineering.

AND

Experience:

Shall have at least 5 years work experience as a Digital Systems Design Engineer, which includes experience in all of the following subject areas:

- 1) Detailed logic design;
- 2) Analog circuit design;
- 3) Programmable logic array;
- 4) Digital or communications system design.

1.5 COMPUTER SPECIALIST/DIGITAL ENGINEER (This category is required for SOW Sections 3.1 through 3.4)

Education:

Shall have at least a BS degree in Electrical or Computer Engineering.

AND

Experience:

Shall have at least 5 years work experience as a Computer Specialist/Digital Engineer, which includes experience in at least three of the following subject areas:

- 1) Software Design, Programming experience in Minicomputer and Microcomputer Software Development for Multiprocessor Networking;
- 2) RF missile-seeker interface design for closed-loop anechoic chamber simulation applications;

- 3) Software Programming of Real-Time Color Graphics on a Silicon Graphics work station;
- 4) Digital System Design experience with the M68K, Intel X86-series Microprocessors;
- 5) Experience with installing, troubleshooting, and interfacing of SCRAM7Net interfaces to Intel X86 and SGI equipment that participate in multiprocessor real-time simulations.

1.6 RF/Microwave Engineer (This category is required for SOW Sections 3.1 and 3.5)

Education:

Shall have at least a Bachelors of Science (BS) degree in Electrical Engineering or Physics.

AND

Experience:

Shall have at least 5 years experience as RF engineer in Microwave System Design, Test, and Troubleshooting in the S-, X-, and Ku-bands.

This experience shall include the repair of the following:

RF Microwave Components and Systems (including Switches, Attenuators, Phase Shifters, and Traveling-Wave Tube Amplifiers).

Majority of the experience shall include RF and general laboratory test equipment such as the following:

Network Analyzers, Spectrum Analyzers, Power Meters, Synthesizers, and Oscilloscopes.

1.7 QUALITY ASSURANCE ENGINEER (This category is required to support SOW Sections 3.1 through 3.8)

Education:

Shall have at least a Bachelors degree in quality assurance, statistics, mathematics, production management, industrial management, engineering,

engineering technology, or physical sciences.

AND

Experience:

Shall have at least 3 years work experience in engineering, quality control, and/or test and evaluation that provided the following skills or experience:

- 1) Familiarity with quality assurance or related work;
- 2) Electronic hardware/software product or process knowledge and skill;
- 3) Ability to interpret technical requirements and engineering specifications;
- 4) Skill in dealing with engineering and technical specialists;
- 5) Experience in reading, interpreting, and applying technical data such as blueprints, engineering drawings, product specifications, and technical manuals;
- 6) Experience in critical evaluation of proposed designs and adequacy of associated documentation;
- 7) Experience in development of quality control procedures applicable to the engineering research and development environment.

1.8 ADMINISTRATIVE/CLERICAL SUPPORT (This category is required to support the SOW Sections 3.1 through 3.8)

Education:

Shall have at least a Bachelor's degree and/or experience as indicated below.

AND

Experience:

Shall have a least 1 year cumulative work experience in progressively responsible clerical and/or office work that indicates an ability to acquire the necessary knowledge and skills to demonstrate consistent, conscientious work habits.

If the individual does not possess a Bachelor Degree, then 3 years of cumulative work experience may be substituted.

The cumulative experience shall be in the following areas:

- 1) Clerical duties such as filing, record keeping, and preparing written documents;
- 2) Operation of office equipment such as computers, copiers, and fax machines;

- 3) Review of draft documents as well as some editing, formatting, and preparing same for publication as electronic and/or hardcopy products;
- 4) Collaborate with multiple technical personnel to accomplish administrative tasks;
- 5) Demonstration of proficiency with computer-based, office-productivity tools such as word processors, spreadsheets, briefing presentation packages, and desktop publishing.

2.0 LABOR CATEGORIES FOR STATEMENT OF WORK SECTIONS 3.9 AND 3.10

2.1 MILITARY SYSTEM ANALYST

Education:

Shall have at least a Masters degree in Engineering.

AND

Experience:

Shall have at least 5 years work experience as a Military Systems Analyst, which includes operational experience in EW-related Squadrons or Organizations as well as programmatic experience in EW-related acquisition programs.

2.2 TECHNICAL PROGRAM SPECIALIST/ANALYST

Education:

Shall have at least a BS degree in any technical background.

AND

Experience:

Shall have at least 5 years work experience in EW Test and Evaluation (T & E) programs which includes:

- 1) Performing nonroutine and complex assignment with responsibility for planning and conducting a complete project that was relatively complicated in scope;

- 2) Analyzing and preparing threat documents and evaluating performance of EW threat systems in field and laboratory operations, including testing in an anechoic chamber;
- 3) Reviewing and analyzing engineering data to determine requirements to meet engineering objectives;
- 4) Calculating design data, as well as preparing specifications, estimates, and procedures;
- 5) Analyzing drawings, specifications, and estimates to determine adequacy of drawing and designs;
- 6) Preparing and reporting test evaluation costs as well as supervising and directing other contract employees in operational test and evaluation environments.

2.3 DIGITAL EW ENGINEER

Education:

Shall have at least a BS degree in Electrical Engineering including course work in radar systems and electromagnetics.

AND

Experience:

Shall have at least 5 years work experience as Digital Engineer, general experience shall be on EW techniques with main experience emphasis an in-depth knowledge of digital techniques as applied to Simulation of Threat Missile Systems, including the control of RF/Microwave components and transmitting devices.

The 5 years experience shall include at least three of the below subject areas:

- 1) Diverse radar systems, modulation schemes, and methods of simulating threat missile systems;
- 2) Specifying microprocessor system design (including experience using Intel and Motorola microprocessors), designing with PCI and VME Bus Back Planes, and programming in C and assembly language;
- 3) Planning and conducting work that required independent evaluation; selection; and adaptation of standard techniques, procedures and criteria;
- 4) Handling complex system features and design requirements using common principles and practices of system design.

2.4 COMPUTER SCIENTIST

Education:

Shall have at least a BS degree in CS or EE (with an emphasis in CS).

AND

Experience:

Shall have at least 5 years work experience as a Computer Scientist which includes programming experience in at least four of the following subject areas:

- 1) Microprocessor systems, including programming RF/Microwave controllers, analog circuits and High-Speed Data Collection systems;
- 2) Application of Intel-Based and UNIX operating systems; C/C++ Programming Languages; and Intel and Motorola Microprocessors;
- 3) Application of standard programming procedures toward scientific and analytical calculations;
- 4) Capability to follow detailed coding and documentation conventions, and to produce highly modular and transportable code;
- 5) Capability of designing and implementing Code Modifications that involve intermodule, interfile, and interprocessor communications;
- 6) Evaluating processor utilization and program efficiency.

2.5 SENIOR RF/MICROWAVE SYSTEMS ENGINEER

Education:

Shall have at least a BS degree in Engineering.

(Electromagnetics coursework or training is required, preferably at the graduate level).

AND

Experience:

Shall have at least 8 years work experience in programs and procedures in R&D EW systems which includes formulating and guiding innovative approaches to extremely difficult problems. Such experience may be characterized by (1) lack of scientific precedent, (2) little or no source material, (3) failed prior research and

analysis, (4) solutions that dealt with system and system-integration issues, or (5) complete systems or architectures designed to respond to specific EW challenges that significantly impacted the EW community.

2.6 ADMINISTRATIVE/CLERICAL SUPPORT

Education:

Shall have at least a Bachelor's degree and/or experience as indicated.

AND

Experience:

Shall have a least 1 year cumulative work experience in progressively responsible clerical and/or office work that indicates ability to acquire the necessary knowledge and skills and demonstrates consistent, conscientious work habits.

If the individual does not possess a Bachelor degree, then three years of cumulative work experience is minimally required.

The cumulative experience shall be in the following areas:

- 1) Clerical duties such as filing, record keeping, and preparing written documents;
- 2) Operation of office equipment such as computers, copiers, and fax machines;
- 3) Review of draft documents as well as some editing, formatting, and preparation of same for publication in electronic and/or hardcopy formats;
- 4) Collaborate with multiple technical personnel to accomplish administrative tasks;
- 5) Demonstration of proficiency with computer-based, office-productivity tools such as word processors, spreadsheets, briefing presentation packages, and desktop publishing.

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING SER:048-00 a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;">TOP SECRET</p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;">SECRET</p>			
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>			3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>				
a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/>		a. ORIGINAL <i>(Complete date in all cases)</i>	DATE (YYYYMMDD) 20001215		
b. SUBCONTRACT NUMBER				b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO. DATE (YYYYMMDD)		
<input checked="" type="checkbox"/> c. SOLICITATION OR OTHER NUMBER 57-6021-01		DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete Item 5 in all cases)</i> DATE (YYYYMMDD)			
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.							
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request _____, retention of the classified material is authorized for the period of _____.							
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>							
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>				
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD			N/A				
7. SUBCONTRACTOR							
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>				
N/A			N/A				
8. ACTUAL PERFORMANCE							
a. LOCATION		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>				
N/A			N/A				
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT							
PROVIDE ENGINEERING SUPPORT TO THE INTEGRATED ELECTRONIC WARFARE SIMULATION BRANCH.							
10. CONTRACTOR WILL REQUIRE ACCESS TO:		YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:		YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION			<input checked="" type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY			<input checked="" type="checkbox"/>
b. RESTRICTED DATA			<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY			<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION			<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>	
d. FORMERLY RESTRICTED DATA			<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE			<input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION				e. PERFORM SERVICES ONLY			<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES			<input checked="" type="checkbox"/>
(2) Non-SCI		<input checked="" type="checkbox"/>		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		<input checked="" type="checkbox"/>	
f. SPECIAL ACCESS INFORMATION			<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT			<input checked="" type="checkbox"/>
g. NATO INFORMATION			<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS			<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION			<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS			<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION			<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE			<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION			<input checked="" type="checkbox"/>	l. OTHER <i>(Specify)</i>			
k. OTHER <i>(Specify)</i>							

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

Direct Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 5760.
NO PUBLIC RELEASE OF SCI AUTHORIZED.

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

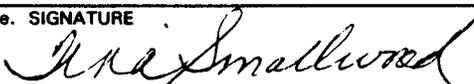
13. **SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged 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*

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 TOP SECRET facility clearance, SECRET storage capabilities and personnel eligible for Sensitive Compartmented Information.

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 (<i>Include Area Code</i>) (202)767-2240/2521
d. ADDRESS (<i>Include Zip Code</i>) NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE SW WASHINGTON, DC 20375-5320	17. REQUIRED DISTRIBUTION	
e. SIGNATURE 	<input checked="" type="checkbox"/> a. CONTRACTOR <input checked="" 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 1221.1, 1223.1, 5760, ONI-532	