

**INFORMATION TO OFFERORS OR QUOTERS  
SECTION A - COVER SHEET**

1. SOLICITATION NUMBER

2. (X one)

N00173-99-R-JR07

a. SEALED BID

b. NEGOTIATED (RFP)

c. NEGOTIATED (RFQ)

**INSTRUCTIONS**

NOTE THE AFFIRMATIVE ACTION REQUIREMENT OF THE EQUAL OPPORTUNITY CLAUSE WHICH MAY APPLY TO THE CONTRACT RESULTING FROM THIS SOLICITATION.

You are cautioned to note the "Certification of Non-Segregated Facilities" in the solicitation. Failure to agree to the certification will render your reply nonresponsive to the terms of solicitations involving awards of contracts exceeding \$25,000 which are not exempt from the provisions of the Equal Opportunity clause.

"Fill-ins" are provided on the face and reverse of Standard Form 18 and Parts I and IV of Standard Form 33, or other solicitation documents and Sections of Table of Contents in this solicitation and should be examined for applicability.

See the provision of this solicitation entitled either "Late Bids, Modifications of Bids or Withdrawal of Bids" or "Late Proposals, Modifications of Proposals and Withdrawals of Proposals."

When submitting your reply, the envelope used must be plainly marked with the Solicitation Number, as shown above and the date and local time set forth for bid opening or receipt of proposals in the solicitation document.

If NO RESPONSE is to be submitted, detach this sheet from the solicitation, complete the information requested on reverse, fold, affix postage, and mail. NO ENVELOPE IS NECESSARY.

Replies must set forth full, accurate, and complete information as required by this solicitation (including attachments). The penalty for making false statements is prescribed in 18 U.S.C. 1001.

**3. ISSUING OFFICE (Complete mailing address, including ZIP Code)**

**CONTRACTING OFFICER  
NAVAL RESEARCH LABORATORY  
ATTN: CODE  
WASHINGTON DC 20375-5326**

**4. ITEMS TO BE PURCHASED (Brief description)**

**RESEARCH AND DEVELOPMENT SUPPORT FOR THE NAVY TECHNOLOGY CENTER FOR SAFETY AND SURVIVABILITY**

**5. PROCUREMENT INFORMATION (X and complete as applicable)**

a. THIS PROCUREMENT IS UNRESTRICTED

b. THIS PROCUREMENT IS A 100 % SET-ASIDE FOR ONE OF THE FOLLOWING (X one). (See Section I of the Table of Contents in this solicitation for details of the set-aside.)

(1) Small Business

(2) Labor Surplus Area Concerns

(3) Combined Small Business/Labor Area Concerns

**6. ADDITIONAL INFORMATION**

The Naval Research Laboratory Contracting Division issues solicitations and amendments to solicitations electronically via the Internet at the following website: <http://heron.nrl.navy.mil/contracts/home.htm>.

Any amendments to this solicitation will be posted at that website. Amendments will not be distributed by any other means. It is the responsibility of potential offerors to periodically review the website for amendments to this solicitation.

**7. POINT OF CONTACT FOR INFORMATION**

a. NAME (Last, First, Middle Initial)

**RILES, JERRY**

b. ADDRESS (Include Zip Code)

Naval Research Laboratory  
4555 Overlook Ave., S.W.  
Washington, D.C. 20375-5326

c. TELEPHONE NUMBER (Include Area Code and Extension) (NO COLLECT CALLS) (202) 767-2120

<b>8. REASONS FOR NO RESPONSE (X all that apply)</b>			
a. CANNOT COMPLY WITH SPECIFICATIONS		b. CANNOT MEET DELIVERY REQUIREMENT	
c. UNABLE TO IDENTIFY THE ITEM(S)		d. DO NOT REGULARLY MANUFACTURE OR SELL THE TYPE OF ITEMS INVOLVED	
e. OTHER (Specify)			
<b>9. MAILING LIST INFORMATION (X one)</b>			
YES	NO	WE DESIRE TO BE RETAINED ON THE MAILING LIST FOR FUTURE PROCUREMENT OF THE TYPE OF TIME(S) INVOLVED.	
<b>10. RESPONDING FIRM</b>			
a. COMPANY NAME		b. ADDRESS (Include Zip Code)	
c. ACTION OFFICER			
(1) Typed or Printed Name (Last, First, Middle Initial)	(2) Title	(3) Signature	(4) Date Signed (YYMMDD)

DD FORM 1707 REVERSE, MAR 90

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FROM

AFFIX  
STAMP  
HERE

SOLICITATION NUMBER N00173-99-R-JR07	
DATE (YYMMDD) 12 JUL 1999	LOCAL TIME 4:00

TO

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) <span style="float: right;">▶</span>		RATING <b>DO C9</b>	PAGE OF <b>1</b>   <b>28</b> PAGES
2. CONTRACT NO.	3. SOLICITATION NO. <b>N00173-99-R-JR07</b>	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED <b>11 June 99</b>	6. REQUISITION/PURCHASE NO. <b>61-0817-99</b>
7. ISSUED BY <b>CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE WASHINGTON DC 20375-5326</b>		CODE <b>N00173</b>	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 3 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 4:00pm local time 12 July 1999  
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section I, 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: <span style="float: right;">▶</span>	A. NAME <b>JERRY RILES, Contract Specialist</b>	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <b>(202) 767- 2120</b>
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<input checked="" type="checkbox"/>	C	DESCRIPTION/SPECS./WORK STATEMENT	4	<input checked="" type="checkbox"/>	J	LIST OF ATTACHMENTS	17
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**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) <span style="float: right;">▶</span>	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)	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:		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified) <span style="float: right;">▶</span>	ITEM
<input type="checkbox"/> 10 U.S.C. 2304(c) ( )	<input type="checkbox"/> 41 U.S.C. 253(c) ( )		
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**

<b>ITEM NUMBER</b>	<b>SUPPLIES/SERVICES</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>ESTIMATED COST PLUS FIXED FEE</b>
<b>BASE YEAR</b>				
0001	The Contractor shall conduct research as decribed in Section C	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
<b>OPTION I – YEAR 2</b>				
0003	The Contractor shall conduct research as decribed in Section C	\$	\$	\$
0004	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
<b>OPTION II –YEAR 3</b>				
0005	The Contractor shall conduct research as decribed in Section C	\$	\$	\$
0006	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
<b>OPTION III – YEAR 4</b>				
0007	The Contractor shall conduct research as decribed in Section C	\$	\$	\$

0008	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
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**OPTION IV – YEAR 5**

0009	The Contractor shall conduct research as deccribed in Section C	\$	\$	\$
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00010	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
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<b>TOTAL EST. COST PLUS FIXED FEE</b>		\$	\$	\$
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\* Not Separately Priced

**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 02 February 1998 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

**SECTION D**  
**PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

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

**SECTION E**  
**INSPECTION AND ACCEPTANCE**

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

**FAR CLAUSE    TITLE**

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

**DFARS CLAUSE    TITLE**

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

**E-2 INSPECTION AND ACCEPTANCE**

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

**SECTION F  
DELIVERIES OR PERFORMANCE**

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

**FAR CLAUSE    TITLE**

52.242-15    -    Stop-Work Order (AUG 1989) - Alternate I (APR 1984)  
52.247-34    -    F.O.B. Destination (NOV 1991)

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

**(a)** The term of this contract is from **date of contract award** through **twelve(12) months thereafter.**

(b) The term of each option will be from the date the option is exercised through twelve (12) months.

(c)(i) The principal place of performance of this contract shall be: **ex -USS SHADWELL  
Mobile, AL**

(ii) A significant amount of performance shall be at : **Naval Research Laboratory  
4555 Overlook Ave, S.W.  
Washington, DC 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 3008.2, 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 filled in 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 filled in 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 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 CONTRACTOR-ACQUIRED PROPERTY**

- (a) The contractor is authorized to acquire the following items of facilities which are needed to accomplish this contract.

Items to be Acquired

Estimated Cost

(To be filled in at time of award)

- (b) This authorization does not constitute any consent required pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2). Advance notification or requests for consent pursuant to that clause shall be directed to the administrative contracting officer (ACO).
- (c) Pursuant to the contract clause entitled "Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts)" (FAR 52.245-5), title to the property shall vest in the Government.
- (d) Prior to acquisition of any item of Industrial Plant Equipment, the Contractor must comply with the requirements of Department of Defense Federal Acquisition Regulation Supplement (DFARS 245.302-1(b)(1)(A). (See DFARS 245.301 for definition of "Industrial Plant Equipment.")

**G-5 SUBCONTRACTORS/CONSULTANTS**

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

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

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

**G-6 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 filled in 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-7 INCREMENTAL FUNDING**

This contract is incrementally funded pursuant to the Limitation of Funds clause, FAR 52.232-22. Funds are allotted to the contract in the amount of \$ \* and it is estimated that they are sufficient for contract performance through \*.

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

### **G-8 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

(To be filled in 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:

(To be filled in 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 the base contract shall be **41,000** hours with four options of **41,000** hours each, of direct labor, 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 **3,417** hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations

occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

(d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

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

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

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

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

(i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort which was estimated by the government or proposed by the Contractor.

(j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort is as follows:

<u>LABOR CATEGORY</u>	<u>BASE</u>	<u>OPTION I</u>	<u>OPTION II</u>	<u>OPTION III</u>	<u>OPTION IV</u>
Senior Engineer	8,000	8,000	8,000	8,000	8,000
Engineer	10,100	10,100	10,100	10,100	10,100
Junior Engineer	7,900	7,900	7,900	7,900	7,900
Technician	13,000	13,000	13,000	13,000	13,000
Support	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>
<b>TOTAL HOURS</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>

#### **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**

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

#### **H-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  | - | Printing/Copying Double-Sided On Recycled Paper (JUN 1996)   |
| 52.209-6  | - | Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)                              |
| 52.211-15 | - | Defense Priority and Allocation Requirements (SEP 1990)  |
| 52.215-2  | - | Audit And Records-Negotiation (AUG 1996)   |
| 52.215-8  | - | Order of Precedence - Uniform Contract Format (OCT 1997)   |
| 52.215-10 | - | Price Reduction for Defective Cost or Pricing Data (OCT 1997)  |
| 52.215-11 | - | Price Reduction for Defective Cost or Pricing Data - Modifications (OCT 1997)  |
| 52.215-12 | - | Subcontractor Cost or Pricing Data (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)<br>( <i>will be included if the successful offeror does not propose facilities capital cost of money</i> ) |
| 52.215-18 | - | Reversion or Adjustment of Plans for Post-retirement Benefits (PRB) Other than Pensions (OCT 1997)   |
| 52.215-19 | - | Notification of Ownership Changes (OCT 1997)   |
| 52.215-21 | - | Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)   |

- 52.216-7 - Allowable Cost And Payment (APR 1998)
- 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.
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUL 1996)
- 52.219-8 - Utilization Of Small Business Concerns (JAN 1999)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 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)
- 52.223-2 - Clean Air And Water (APR 1984)
- 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)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 1996)
- 52.225-11 - Restrictions On Certain Foreign Purchases (AUG 1998)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
*(will be included if the successful offeror is a small business or a non-profit organization)*
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (APR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 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) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.237-10 - 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)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984)fill in 30
- 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)
- 52.245-9 - Use And Charges (APR 1984) (DEVIATION)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 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)
- 52.252-6 - 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)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 1998)
- 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)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 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 (JAN 1999)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (MAR 1998)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)

- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bids or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7026 - Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
- 252.227-7027 - Deferred Ordering Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (OCT 1988)
- 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 (NOV 1995)
- 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 (MAY 1995)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.243-7002 - Requests for Equitable Adjustment (MAR 1998)
- 252.245-7001 - Reports of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (NOV 1995)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (NOV 1995)  
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)

## **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 – 5 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements And Enclosure (1) - Instructions For Distribution- 5 Pages
  
- J-2** Attachment (2) – Personnel Qualifications, 1 Page
  
- J-3** Attachment (3) - DD 254, Contract Security Classification Specification Form Ser 013-99, Dated 15 Mar 199, W/Attachments - 2 Pages
  
- J-4** Attachment (4) - ACCOUNTING AND APPROPRIATION DATA \*- 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/rep&certs.htm>

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (OCT 1998)**

The fill in information is as follows:

The standard industrial classification (SIC) code for this acquisition is 8731.

The small business size standard is 500 Employees.

**K-3 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING**

The Offeror's CAGE Code is {fill-in}\_\_\_\_\_.

See DFARS 252.204-7001 in Section L for procedures on requesting a CAGE Code.

**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 (APR 1998)
52.211-2	-	Availability of Specifications Listed in the DOD Index of Specifications and Standards (DODISS) and Descriptions Listed in the Acquisition Management Systems and Data Requirements Control List, DOD 5010.12-L (AUG 1998)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)
52.215-1	-	Instructions to Offerors- Competitive Acquisition (OCT 1997)
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)
52.222-24	-	Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
52.237-1	-	Site Visit (APR 1984)
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) Provide information as described in Section L-13.

**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 252.204-7001 - COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (DEC 1991)**

- (a) The Offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter CAGE Before the number.
- (b) If the Offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Services Center (DLSC). The Contracting Officer will--
- (1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of the Commercial and Government Entity (CAGE) Code;
  - (2) Complete section A and forward the form to DLSC; and
  - (3) Notify the Contractor of its assigned CAGE code.
- (c) Do not delay submission of the offer pending receipt of a CAGE code.

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

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation--
- (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
  - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror,

its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror: Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

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

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

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

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

**L-9 GOVERNMENT-FURNISHED PROPERTY**

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

**L-10 INQUIRIES CONCERNING THE RFP**

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

**L-11 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. N00173-99-R-JR07**

**Closing Date:**

**(As specified in Block 9, RFP face page)**

**Attn: Code 3220JR**

- (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-12 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

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

(1) Proposal Labor Hours and Equipment/Materials: Offerors must propose the Government estimate for the maximum number of labor hours in accordance with Section H-2, entitled "Level of Effort"; and the Government estimate for the maximum equipment and materials in accordance with Section L-15, entitled "Equipment/Material".

(2) The following information is required for evaluation of your technical/management and cost proposal. Any additional information may be provided.:

### **1. QUALIFICATIONS OF PERSONNEL**

The proposal should indicate technical competence of the offerors key and supporting personnel as demonstrated by their resumes, experience (both general and project related), publication records, and the degree to which they meet the requirements set forth in the RFP, Attachment (2), Personnel Qualifications.

The proposal should indicate the availability of key personnel to support the effort on a permanent basis. Key personnel must be currently employed by the offeror or documentation included showing their immediate availability. A statement of commitment by the offeror that specific personnel will be committed to the effort is essential.

The proposal should indicate the key personnel's demonstrated oral and written communication skills and the ability to work independently.

### **2. CORPORATE EXPERIENCE:**

The proposals should indicate the offerors demonstrated corporate experience and technical base, both general and task specific, in providing the necessary technical support for performance of the SOW requirements, particularly in an "on-site" environment. The proposal should address the ability to administratively support "on-site" efforts with minimum demands upon Government personnel assistance.

The proposals should indicate the sufficiency of the offerors staff to accommodate program changes within the scope of the SOW.

### **3. UNDERSTANDING THE PROBLEM:**

The proposal should indicate the offeror's complete understanding of the technical requirements and the general nature of the tasks set forth in the SOW. The offeror's understanding of the Statement of Work (SOW) will be evaluated.

The proposal should demonstrate the offeror's experience in the type of research and development required by the tasks set forth in the SOW.

The proposal should address each of the technical requirements stated in the SOW. A simple statement of understanding or playback of the SOW will not be considered as responsive.

#### **4. PAST PERFORMANCE INFORMATION:**

(a) Offerors shall submit the following information as part of their proposal. (Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.) List the last **3** contracts or subcontracts completed during the past **2** years for services similar in nature to this requirement. Include in the **3**, any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

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

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

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

### **L-13 VOLUME II - BUSINESS PROPOSAL**

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

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

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate the cost elements.

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.

#### L-14 TRAVEL

It is expected that the following travel within the Continental US will be required during each year of contract performance:

<b>LOCATION</b>	<b>PERSONS</b>	<b>DAYS/WKS</b>	<b>TRIPS</b>
Mobile, AL	2	4 weeks	12
	2	2 weeks	12
	1	1 week	9
China Lake, CA	4	4 weeks	4
	2	1 week	4
Norfolk, VA	2	5 days	4

In addition, the contractor should estimate the travel of 1-2 persons to the Naval Research Laboratory, Washington, DC, at approximately one trip per month.

#### L-15 EQUIPMENT/MATERIALS ESTIMATES

The material estimates set forth must be included in each offerors cost proposal for evaluation purposes only. During the term of this contract, the contractor will be reimbursed actual and allowable material costs.

The Government's estimated amount for the materials and supplies is not expected to exceed **\$100,000** per year or **\$500,000** for the total effort.

These estimates are direct costs, and the offeror should add any applicable indirect costs.

**L-16 ANTICIPATED DISTRIBUTION AND LOCATION OF DIRECT LABOR HOURS**

The following is the anticipated distribution by labor category of the level of effort, with an estimated percentage allocation within areas of performance. This distribution shall be used by the offeror in preparing the cost proposal. If the offeror uses labor category terminology other than that used in this provision, the offeror must provide a table clearly relating their proposed labor categories to those in this provision. For purposes of the proposal, the estimated percentage allocation of labor, within areas of performance are at the following locations: Naval Research Laboratory- DC (40%), ex- *USS SHADWELL* ( 50%), China Lake, CA ( 5%), Other Designated Facilities (5%).

<b><u>LABOR CATEGORY</u></b>	<b><u>BASE</u></b>	<b><u>OPTION I</u></b>	<b><u>OPTION II</u></b>	<b><u>OPTION III</u></b>	<b><u>OPTION IV</u></b>
Senior Engineer	8,000	8,000	8,000	8,000	8,000
Engineer	10,100	10,100	10,100	10,100	10,100
Junior Engineer	7,900	7,900	7,900	7,900	7,900
Technician	13,000	13,000	13,000	13,000	13,000
Support	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>	<u>2,000</u>
<b>TOTAL HOURS</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>	<b>41,000</b>

## 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. Technical subfactor (1) is of greater importance than technical subfactors (2) through (4). Technical subfactor (2) is of greater importance than technical subfactors (3) and (4). Technical subfactor (3) is of greater importance than technical subfactor (4).

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

##### (1) QUALIFICATIONS OF PERSONNEL

The proposal will be evaluated on the technical competence of the offerors key and supporting personnel as demonstrated by their resumes, experience (both general and project related), publication records, and the degree to which they meet the requirements set forth in the RFP, Attachment (2), Personnel Qualifications.

The proposal will be evaluated on the availability of key personnel to support the effort on a permanent basis. Key personnel must be currently employed by the offeror or the proposal shall include documentation showing their immediate availability. A statement of commitment by the offeror that specific personnel will be committed to the effort should be provided.

The proposal will be evaluated on the key personnel's demonstrated oral and written communication skills and the ability to work independently.

##### (2) CORPORATE EXPERIENCE:

The proposal will be evaluated on the offerors demonstrated corporate experience and technical base, both general and task specific, in providing the necessary technical support for performance of the SOW requirements, particularly in an "on-site" environment. The proposal should address the ability to administratively support "on-site" efforts with minimum demands upon Government personnel assistance.

The proposal will be evaluated on the sufficiency of the offerors staff to accommodate program changes within the scope of the SOW.

**(3) UNDERSTANDING THE PROBLEM:**

The proposal will be evaluated on the offeror's complete understanding of the technical requirements and the general nature of the tasks set forth in the SOW. The offeror's understanding of the Statement of Work (SOW) will be evaluated.

The proposal will be evaluated on the offeror's demonstrated experience in the type of research and development required by the tasks set forth in the SOW.

The proposals will be evaluated on whether the offeror addressed each of the technical requirements stated in the SOW. A simple statement of understanding or playback of the SOW will not be considered as responsive.

**(4) PAST PERFORMANCE**

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iii).

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

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

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

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

## STATEMENT OF WORK

### **I INTRODUCTION**

The Naval Research Laboratory (NRL), through its Navy Technology Center for Safety and Survivability, is responsible for a wide variety of survivability and fire protection RDT&E projects for Navy surface ship, submarine, aircraft and shore facilities applications, and DOD use in general. Among these are development of new fire fighting technology and evaluation of fire extinguishing agents and hardware systems, fire fighting and damage control hardware, tactics, doctrine training, and safety, preparation of military specifications, establishment of qualified products lists, and conducting small and large-scale tests in shipboard, submarine, aircraft and shore environments. The programs include basic research, technology development and test and evaluation (including numerical simulation). Recent and current work includes massive interior ship fires due to multiple threats, evaluation of performance of submarine materials and development of alternatives to Halon for shipboard fire fighting. Work often must be done on a fast-response basis to meet Fleet needs and deal with urgent problems. It involves RDT&E at the Naval Research Laboratory in Washington, D. C., its Chesapeake Bay Detachment, at the Naval Weapons Center, China Lake, CA, at the ex-USS SHADWELL fire test facility in Mobile, AL, aboard ship and at other military facilities; and the logistics support e.g., fuel, fire fighting agents and equipment, instrumentation, environmentally-safe disposal of waste agents and fuels, professional fire fighters, statisticians, photographers and other support services) required to conduct these test programs.

### **II SCOPE**

a. The contractor shall develop test plans, perform analyses, conduct studies and conduct RDT&E projects to contribute to the accomplishment of conceptual and developmental objectives for the Center's research program, as described above. The contractor shall provide the required logistics support, possess the ability to transmit data and reports electronically, reply to electronic mail over such medium as Internet, and submit monthly and final technical reports in accordance with the following Task Areas:

#### **FIRE EXTINGUISHING AGENTS/DELIVERY SYSTEMS**

b. The contractor shall evaluate the performance of fire fighting agents, such as: fine water mist, aqueous film-forming foam (AFFF), superconcentrated AFFF (1% or less); fluoroprotein and other fire fighting foams, Halons and Halon alternatives; dry chemical agents and the associated delivery systems (such as proportioners and nozzles) for applicability to Navy platforms and facilities. The contractor shall develop a test plan for evaluating the performance of these agents in accordance with the applicable military or federal specifications, collect and analyze the data and submit a final task summary report for each task. The applicable specifications include: Military Specification - Fire Extinguishing Agent, Aqueous Film Forming Foam (AFFF) Liquid Concentrate, for Fresh and Seawater, MIL-F- 24398F and Federal Specifications for Dry Chemical Fire Extinguishing Agents: 0-D-1407 (Potassium Bicarbonate) and 0-D-1380 (Multipurpose Phosphate). If the government determines that changes to existing specifications or new specifications are required, the contractor shall also submit draft copies of the changes or new specifications. These revised or new specifications may be delivered as part of the final task summary report.

### **FIRE HAZARD ANALYSIS/PASSIVE FIRE SAFETY**

c. The contractor shall develop/implement a computer model describing spread of fire and heat from a shipboard compartment containing Class A materials, Class B fuels and burning missile propellant to adjacent compartments and spaces. The model must be based on data acquired from simulated compartment studies and from shipboard tests and include the effectiveness of materials in preventing fire spread. Government will provide the data. These models will be used to assess the hazards and vulnerability of existing and new classes of ships such as LPD-17, DD21 and CVX.

d. The contractor shall also conduct fire tests to assess the effectiveness of insulation, intumescent paints and of other passive protection/measures for steel, aluminum and composites. The contractor shall prepare a test plan describing the various fire threats for specific compartments, the instrumentation required and the approach to testing. The contractor shall install samples of the materials to be tested on the ex-USS SHADWELL, such as: insulation, intumescent paint, and composite materials, provide the fire source, install the necessary instrumentation, conduct the tests, collect and analyze the data and submit a final report. A complete description of the ex-USS SHADWELL, including available instrumentation, may be found in Reference (1). Compartments will be mocked as exists on current and proposed ships and tested.

### **SMALL AND LARGE SCALE FIRE TESTS**

e. The contractor shall furnish a test plan which includes ship, compartment or facilities modifications; instruments; materials and time to setup, test, analyze data and write the report for full scale testing on ex-USS SHADWELL. The materials to be tested include balanced pressure doors, hydraulic fans composites and lightweight insulation.

f. The contractor shall furnish the necessary personnel as defined in the test plan, including the test director, test mechanics, fire fighters and logistic support individuals. The test plan must conform to the requirements of the operational levels of SHADWELL (Reference (2)) and minimum manpower for ship operation (Reference (3)). The test plan developed by the contractor shall be approved by COR prior to implementation. Following approval of the test plan, the contractor shall perform modifications to the ship, compartment or facility as required (welding, grinding, painting, pipe fitting) and install appropriate instrumentation. Instruments must include heat, temperature and air-velocity sensors. Video and audio records must be made of the tests in process and gaseous products must be fully monitored in real time in accordance with the approved test plan. The contractor shall evaluate performance of instrumentation and adequacy of the safety plan. All instrumentation and associated software, including audio and video tapes, and computer software, shall be provided by the government. Following test set-up, the contractor shall conduct full-scale tests as required in the test plan and collect the necessary data.

g. As described in the test plan approved by the COR, the contractor shall restore the facility to its condition before the test, analyze the data, perform statistical analysis as necessary, and provide reports. These reports will consist of a summary of findings within three weeks of completion of a test or test series. The summary report will be submitted in electronic form as an NRL Letter Report. Following the Letter Report, a Memorandum or Formal Report format will be submitted within six weeks also in electronic form fully documenting the test. On occasion where video clips are appropriate in a report, it will be delivered in CD-ROM format. The test plan shall state the condition of the facility prior to the planned test and the condition to which it will be restored. If required by the test plan, a numerical simulation must be developed and benchmarked against the actual data. Toxicity assessments must be limited to analytical analyses of the fire products produced from the fire.

### **FIRE FIGHTING TRAINING AND TACTICS**

h. The contractor shall develop improved agents, procedures and equipment for reducing the impact of fire fighting training on the environment. Such improvements include biodegradable fire fighting agents, smoke control and techniques for separating AFFF and fuels from fire fighting water. The contract shall demonstrate and monitor the efficacy of such improvement by installing prototypes at fire fighting training facilities in accordance with a test plan approved by the COR.

### **FIRE PROTECTION IN SUBMARINES AND OTHER ENCLOSED SPACES**

i. The contractor shall furnish a test plan which includes all chamber/ship modifications, instrumentation, materials, and a time line to set up, test, analyze data, and write the report for full scale testing of : submarine fire fighting, damage control doctrine and tactics, the water mist suppression system, the solid nitrogen suppression system, and compartment configuration and ventilation parameters. Those tests shall be conducted either in FIRE I, which is a 324 m<sup>3</sup> simulated submarine compartment located at the Naval Research Laboratory's Chesapeake Bay Detachment (Reference (4)), or aboard the ex-USS SHADWELL in the 688/SHADWELL Port Wingwall (Reference (5)).

j. Following an approved test plan, the contractor shall modify the facility and install the appropriate heat, pressure, temperature and air velocity sensors. The contractor shall collect video and audio records of the test. Gaseous products must be monitored with gas chromatograph, mass spectrometry, Fourier transform infrared analysis and non-dispersion infrared analysis. Smoke densities are also to be measured. All instrumentation and associated software, including audio and video tapes and computer programs, shall be furnished by the government. The contractor shall conduct the full-scale tests as required by the test plan and return the facility to the same condition as before testing, including replacement and recalibration of instruments destroyed in the fire. The contractor shall provide all basic instrumentation and materials required to restore the facility to its original condition. The test plan shall state the condition of the

facility prior to the planned test and the condition to which it will be restored. The specialized test equipment will not be replaced. The contractor shall provide all logistical support, including statistical analysis if required by the test plan. The contractor shall analyze the data as required by the test plan and provide a report, and video report if appropriate as outlined in Section II g.

### **SIMULATED PROPELLANT INDUCED FIRES**

k. The contractor shall conduct a series of burns to characterize the thermal effects from a shipboard weapons hit. The tests must be conducted in a simulated shipboard compartment to characterize the effects of fuel weight, composition and ventilation. Confirmatory tests must be conducted in an actual shipboard compartment on the ex-USS SHADWELL and the China Lake facility. The contractor will also be asked to participate in destruction tests associated with SINKX tests. The contractor will not be required to restore the decommissioned ship to its original condition. The contractor shall use the results of the simulated compartment tests to develop a model to predict what will happen in the shipboard studies. The compartments for these tests will be provided by the government.

l. The contractor shall develop a test plan for the simulated propellant burns describing objectives, instrumentation to be employed, provide the necessary test personnel, install the instrumentation, collect and analyze the data and submit final reports as outlined in Section II g.

### **TOTAL SHIP SURVIVABILITY TESTS**

m. The contractor shall develop plans for conducting fully integrated Damage Control experiments on ex-USS SHADWELL. This includes the role of offensive and defensive weapons, Hull, Mechanical and Electrical (HM&E) systems, vital circuits, realistic threats, the role of command and control including the Commanding Officer and Executive Officer, the Damage Control Officer, Damage Control Assistant, Damage Control Central and three repair lockers. Baselines of current ships, tactics, doctrine and equipment and manning will be compared with reduced manning, automated systems, advanced sensors, fire main management, chilled water, flooding and vital circuits. The contractor shall coordinate the participating organizations, modify the ship, install the appropriate instrumentation, code the proper data and issue reports in written and video form as outlined in Section II g.

### **REMOTE DAMAGE CONTROL**

n. The contractor shall develop plans for conducting remote damage control experiments on ex-USS SHADWELL using sensor suites, remote activation of ventilation, closures and suppression systems. The contractor will show the feasibility of conducting these experiments from an off-site location, i.e., by remotely activating damage control systems on the ex-USS SHADWELL in Mobile AL from NRL's main site in Washington DC. The contractor shall modify the ship, establish the protocols for the communication links and conduct the experiments. The contractor will issue final written and video reports on these experiments.

o. The contractor will design a set of Remote Manual and Reflexive tests to show the feasibility of reduced manning up to 85%. These tests will be conducted on ex-USS SHADWELL. Instrumentation will be proposed by the contractor to maintain total ship situational awareness. The effort will be documented as set forth in Section II g.

### **III LOGISTICAL SUPPORT**

The contractor shall provide all of the logistical support, including professional firefighters for safety and support in fire tests and personnel to set up and dismantle the fire test apparatus. Contractor personnel shall also restore the fire test site as required by the test plan approved by the COR. Statisticians and photographers shall also be provided if required by the plan. The contractor shall provide for the removal of all fire fighting agents in accordance with all applicable environmental regulations, and shall restore the test site to its pre-test condition.

### **IV FORMAL REPORTS**

Final task summary reports shall be prepared in accordance with the format described in the NRL editorial guide, Reference (6). Copies of the guide are available upon request. The reports are to be electronically transmitted to NRL for review to enhance "turnaround" time. The format and software shall be in Navy Standard, i.e., Word Perfect, format. All other reports and specifications required by the DD1423 shall be sent as First Class mail.

### **V REFERENCES**

1. Carhart, H. W. and Williams, F. W., "The ex-SHADWELL - Full Scale Fire Research and Test Ship," NRL Memo Report 6074, October 6, 1987.
2. Havlovick, B., Williams, F. W. and Toomey, T., "Ex-USS SHADWELL's (LSD-15) Operational Levels and Casualty Procedures," NRL Ltr. Rpt. 6180-171, 6 April 1990.
3. Williams, F. W., Toomey T. and Havlovick, B., "Ex-USS SHADWELL's Minimum Manpower for Emergencies," NRL Ltr. Rpt. 6180-385, in preparation.
4. Alexander, J. I., et al, "Large Scale Pressurizable Fire Test Facility - FIRE I," NRL Report 8643, 30 December 1982.
5. Scheffey, J. L., Satterfield, D. and Williams, F. W., Submarine Fire Protection Project Proposal Test Plan," NRL Ltr. Rpt. 6180/0340.2, 15 June 1994.
6. Calderwood, T. D., "NRL Formal Reports," NRL/PU/230--93--0241, 10 December 1993.

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 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, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. 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 _____ R&D		
D. SYSTEM / ITEM R&D			E. CONTRACT / PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. 001	2. TITLE OF DATA ITEM Test Plan			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW Paragraph II		6. REQUIRING OFFICE NAVAL RESEARCH LABORATORY		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION AS REQ		14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE AS REQ	13. DATE OF SUBSEQUENT SUBMISSION AS REQ	a. ADDRESSEE		b. COPIES	
						Draft Reg Repro	
16. REMARKS Contractor shall submit a test plan at the beginning of each task to be performed in accordance with the statement of work for each task.				15. TOTAL			
1. DATA ITEM NO. 002	2. TITLE OF DATA ITEM Informal (Letter) Management/Financial Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE NRL		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY Monthly		12. DATE OF FIRST SUBMISSION 30 DAC		14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 30 DAC	13. DATE OF SUBSEQUENT SUBMISSION every 30 days thereafter	a. ADDRESSEE		b. COPIES	
						Draft Reg Repro	
16. REMARKS The contractor shall submit monthly status funds report within 15 days of close of each monthly reporting period to include itemized expenditures, materials, and all accumulated cost to date.				15. TOTAL			
1. DATA ITEM NO. 003	2. TITLE OF DATA ITEM Informal (Letter) Technical Progress Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW PARA IV		6. REQUIRING OFFICE		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY Monthly		12. DATE OF FIRST SUBMISSION 30 DAC		14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE 30 DAC	13. DATE OF SUBSEQUENT SUBMISSION every 30 days thereafter	a. ADDRESSEE		b. COPIES	
						Draft Reg Repro	
16. REMARKS Contractor shall provide monthly progress reports based on the statement of work to include accomplishments made, objectives for next reporting period and/or a listing of problems or delays foreseen.				15. TOTAL			
1. DATA ITEM NO. 004	2. TITLE OF DATA ITEM Task Summary Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW PARA IV		6. REQUIRING OFFICE NRL		
7. DD 250 REQ DD(elec)	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION AS REQ		14. DISTRIBUTION	
8. APP CODE		11. AS OF DATE AS REQ	13. DATE OF SUBSEQUENT SUBMISSION AS REQ	a. ADDRESSEE		b. COPIES	
						Draft Reg Repro	
16. REMARKS The contractor shall submit a final summary letter report of each task completed which summarizes program results and accomplishments.				15. TOTAL			
G. PREPARED BY			H. DATE	I. APPROVED BY		J. DATE 3/18/99	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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<b>A. CONTRACT LINE ITEM NO.</b> 0002, 0004 0006, 0008, 0010	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____ R&D
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<b>D. SYSTEM / ITEM</b> R&D	<b>E. CONTRACT / PR NO.</b>	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> 005	<b>2. TITLE OF DATA ITEM</b> Task Summary Memo/Formal Report	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW Para IV	<b>6. REQUIRING OFFICE</b> NRL
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<b>7. DD 250 REQ</b> DD (elec)	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b> 30 DAC	<b>14. DISTRIBUTION</b>	
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<b>8. APP CODE</b>	<b>11. AS OF DATE</b> 30 DAC	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> AS REQ	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
				Draft	Final	
				Reg	Repro	

<b>16. REMARKS</b> The contractor shall submit a final summary report (memo/formal) of each task completed which minimizes program results and accomplishments.	<b>15. TOTAL</b> →
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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

<b>16. REMARKS</b>	<b>15. TOTAL</b> →
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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

<b>16. REMARKS</b>	<b>15. TOTAL</b> →
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b>	<b>2. TITLE OF DATA ITEM</b>	<b>3. SUBTITLE</b>
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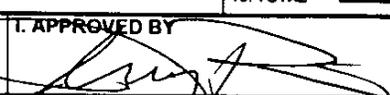
<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b>
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<b>7. DD 250 REQ</b>	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b>	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>	
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				Draft	Final	
				Reg	Repro	

<b>16. REMARKS</b>	<b>15. TOTAL</b> →
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>G. PREPARED BY</b>	<b>H. DATE</b>	<b>I. APPROVED BY</b> 	<b>J. DATE</b> 2/18/89
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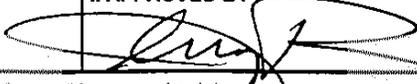
**CONTRACT DATA REQUIREMENTS LIST**  
**(1 Data Item)**

Form Approved  
OMB No. 0704-0188

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, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. 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 _____	
D. SYSTEM / ITEM N/A		E. CONTRACT / PR NO.		F. CONTRACTOR	
1. DATA ITEM NO. 006	2. TITLE OF DATA ITEM CONTRACTOR ON-SITE LABOR REPORT	3. SUBTITLE N/A			
4. AUTHORITY (Data Acquisition Document No.) N/A		5. CONTRACT REFERENCE		6. REQUIRING OFFICE SEE SECTION G	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 30 DAC	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE 30 DAC	13. DATE OF SUBSEQUENT 5th working day of month	a. ADDRESSEE Code 6102	b. COPIES Draft Final Reg Repro
15. REMARKS The contractor shall provide a monthly contractor on-site labor report by the 5th workday of each month for the preceding month. The report must include the following data: (1) Reporting Period: Contract Number: Contract Value: Current Funding: Date Submitted:  (2) Labor (including subcontractors) - Show employee name and number of hours worked on site at NRL and/or CBD. If the contractor employees worked on multiple tasks (as defined by the COR), the number of hours worked on each task must be shown separately.					
				15. TOTAL	1

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY	H. DATE	I. APPROVED BY 	J. DATE 3/18/99
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## CONTRACT DATA REQUIREMENTS LIST (continued)

**NOTE: Additional information for A004 and A005**

The final summary report for each task or test series shall be prepared in accordance with the "Formal Guide for Scientific and Technical Reports", Naval Research Laboratory, Washington, D.C. Copies are available upon request. If changes to existing specifications, or new specifications, are required as a result of Task 1, they shall be delivered as part of this final summary report for each task. Video and audio records, if required by the test plan, shall also be provided as part of the final summary report.

6180/0133  
3/2/99

**ENCLOSURE (1) TO DD FORM 1423  
INSTRUCTIONS FOR DISTRIBUTION**

**DISTRIBUTION OF TECHNICAL REPORTS**

The minimum distribution of **technical reports** and the **final report** submitted in connection with this contract is as follows:

ADDRESSEE	DODAAD CODE	NUMBER OF COPIES	
		UNCLASSIFIED/ UNLIMITED	UNCLASSIFIED/LIMITED AND CLASSIFIED
COR Naval Research Laboratory  Code: 4555 Overlook Ave., S.W. Washington, DC 20375-5320	N00173	1	1
Administrative Contracting Officer		1	1
Director Naval Research Laboratory ATTN: Code: 5227 4555 Overlook Ave., S.W. Washington, DC 20375-5326	N00173	1	1
Defense Technical Information Center (DTIC) 8725 John J. Kingman Rd. Suite #0944 Fort Belvoir, VA 22060-6218	S47031	4	2

**DISTRIBUTION OF NON-TECHNICAL REPORTS**

The minimum distribution of non-technical reports submitted in connection with this contract is as follows:

ADDRESSEE	DODAAD CODE	NUMBER OF COPIES	
		UNCLASSIFIED/ UNLIMITED	UNCLASSIFIED/LIMITED AND CLASSIFIED
COR	N00173	1	1
Administrative Contracting Officer (DCMAO)		1	1

## PERSONNEL QUALIFICATIONS

### **\* SENIOR ENGINEER**

Minimum B.S. degree in Engineering or in one of the Physical Sciences and have a minimum of 8 years of post graduate experience including acting as principal investigator for 4 years in one or more of the areas described in the Statement of Work.

### **ENGINEER:**

Must possess a B.S. degree in Engineering or in one of the Physical Sciences and have a minimum of 4 years of post graduate experience, including acting as principal investigator for 2 years in one or more of the areas described in the Statement of Work.

### **JUNIOR ENGINEER:**

Must possess a B.S. degree in Engineering or in one of the Physical Sciences.

### **TECHNICIAN**

Minimum of 5 years experience as a Technician in one or more of the areas described in the Statement of Work.

### **SUPPORT PERSONNEL:**

No specific work experience is required.

**\* DENOTES KEY PERSONNEL. Only the categories denoted as Key Personnel are subject to the requirements as set forth under Section H-2, KEY PERSONNEL.**

<b>DEPARTMENT OF DEFENSE</b> <b>CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				<b>1. CLEARANCE AND SAFEGUARDING SER: 013-99</b> a. FACILITY CLEARANCE REQUIRED SECRET b. LEVEL OF SAFEGUARDING REQUIRED NONE	
<b>2. THIS SPECIFICATION IS FOR: (X and complete as applicable)</b>			<b>3. THIS SPECIFICATION IS: (X and complete as applicable)</b>		
a. PRIME CONTRACT NUMBER		X		a. ORIGINAL (Complete date in all cases) Date (YYMMDD) 990315	
b. SUBCONTRACT NUMBER				b. REVISED (Supersedes all previous specs)      Revision No. Date (YYMMDD)	
c. SOLICITATION OR OTHER NUMBER X      61-0817-99		Due Date (YYMMDD)		c. FINAL (Complete Item 5 in all cases) Date (YYMMDD)	
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.					
<b>5. IS THIS A FINAL DD FORM 2547?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the identified classified material is authorized for the period of _____.					
<b>6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)</b>					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD					
<b>7. SUBCONTRACTOR</b>					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
N/A				N/A	
<b>8. ACTUAL PERFORMANCE</b>					
a. LOCATION		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
N/A				N/A	
<b>9. GENERAL IDENTIFICATION OF THIS PROCUREMENT</b>  R & D SUPPORT FOR NAVY TECHNOLOGY CENTER SAFETY SURVIVABILITY					
<b>10. THIS CONTRACT WILL REQUIRE ACCESS TO:</b>			<b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b>		
			YES    NO		
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION			a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY		
			YES    NO		
b. RESTRICTED DATA			b. RECEIVE CLASSIFIED DOCUMENTS ONLY		
			YES    NO		
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION			c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		
			YES    NO		
d. FORMERLY RESTRICTED DATA			d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		
			YES    NO		
e. INTELLIGENCE INFORMATION:			e. PERFORM SERVICES ONLY		
(1) Sensitive Compartmented Information (SCI)			f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		
			YES    NO		
(2) Non-SCI			g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		
			YES    NO		
f. SPECIAL ACCESS INFORMATION			h. REQUIRE A COMSEC ACCOUNT		
			YES    NO		
g. NATO INFORMATION			i. HAVE TEMPEST REQUIREMENTS		
			YES    NO		
h. FOREIGN GOVERNMENT INFORMATION			j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		
			YES    NO		
i. LIMITED DISSEMINATION INFORMATION			k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		
			YES    NO		
j. FOR OFFICIAL USE ONLY INFORMATION			l. OTHER (Specify)		
			YES    NO		
k. OTHER (Specify)					

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

Direct  Through (Specify):

Commanding Officer, Naval Research Laboratory, Washington, DC 20375-5320, Code 6183.

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

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

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

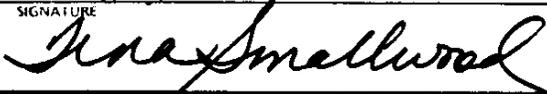
1999 MAR 15 P 1:35  
 NRL CONTRACTS  
 DIVISION

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

**15. INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office. (If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)  Yes  No

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

<b>a. TYPED NAME OF CERTIFYING OFFICIAL</b> TINA SMALLWOOD	<b>b. TITLE</b> Contracting Officer, Security	<b>c. TELEPHONE (Include Area Code)</b> 202-767-2240/2521
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<p><b>d. ADDRESS (Include Zip Code)</b>                  Naval Research Laboratory                  4555 Overlook Ave., SW                  Washington, DC 20375-5320</p> <p><b>e. SIGNATURE</b>  </p>	<p><b>17. REQUIRED DISTRIBUTION</b></p> <table style="width: 100%;"> <tr><td><input checked="" type="checkbox"/></td><td>a. CONTRACTOR</td></tr> <tr><td><input type="checkbox"/></td><td>b. SUBCONTRACTOR</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR</td></tr> <tr><td><input type="checkbox"/></td><td>d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION</td></tr> <tr><td><input type="checkbox"/></td><td>e. ADMINISTRATIVE CONTRACTING OFFICER</td></tr> <tr><td><input checked="" type="checkbox"/></td><td>f. OTHERS AS NECESSARY 1221.11, 6183, 6102</td></tr> </table>	<input checked="" type="checkbox"/>	a. CONTRACTOR	<input type="checkbox"/>	b. SUBCONTRACTOR	<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR	<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION	<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER	<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1221.11, 6183, 6102
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