

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

1. SOLICITATION NUMBER

2. (X one)

N00173-98-R-DB03

- |                                     |                     |
|-------------------------------------|---------------------|
| <input type="checkbox"/>            | a. SEALED BID       |
| <input checked="" type="checkbox"/> | b. NEGOTIATED (RFP) |
| <input type="checkbox"/>            | 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 3230.DB  
WASHINGTON DC 20375-5326

4. ITEMS TO BE PURCHASED (Brief description)

RESEARCH AND DEVELOPMENT

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.)

<input checked="" type="checkbox"/>	(1) Small Business	<input type="checkbox"/>	(2) Labor Surplus Area Concerns	<input type="checkbox"/>	(3) Combined Small Business/Labor Area Concerns
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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.

NOTE: THIS PROCUREMENT IS 100 % SET-ASIDE FOR SMALL BUSINESSES

7. POINT OF CONTACT FOR INFORMATION

a. NAME (Last, First, Middle Initial)

Brinkworth, Daniel

b. ADDRESS (Include Zip Code)

Naval Research Laboratory  
4555 Overlook Ave., SW  
Washington DC 20375-5326

c. TELEPHONE NUMBER (Include Area Code and Extension) (NO COLLECT CALLS) (202) 767-6746

<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)	
<b>c. ACTION OFFICER</b>			
(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 N00173-98-R-DB03	
DATE (YYMMDD) 98 May 11	LOCAL TIME 4:00 PM

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	PAGE OF 1   43 PAGES
2. CONTRACT NO.	3. SOLICITATION NO.  N00173-98-R-DB03	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED  08 APR 98	6. REQUISITION/PURCHASE NO.
7. ISSUED BY Contracting Officer, Code 3230.DB Naval Research Laboratory 4555 Overlook Ave., SW Washington DC 20375-5326		CODE N00173	8. ADDRESS OFFER TO (If other than Item 7)		

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

**SOLICITATION**

9. Sealed offers in original and 02 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 4:00 local time 11 MAY 98  
(Hour) (Date)

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

10. FOR INFORMATION CALL: <span style="float: right;">▶</span>	A. NAME  Daniel Brinkworth	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS)  (202) 767-6746
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<input checked="" type="checkbox"/>	C	DESCRIPTION/SPECS./WORK STATEMENT	3	<input checked="" type="checkbox"/>	J	LIST OF ATTACHMENTS	19
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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. <input type="checkbox"/>		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	28. AWARD DATE	
		(Signature of Contracting Officer)		

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

PART I - THE SCHEDULE

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES OR SERVICES	MAXIMUM ESTIMATED COST	MAXIMUM FIXED FEE	MAXIMUM TOTAL EST COST PLUS FIXED FEE
0001	The Contractor shall provide \$ technical, scientific, and logistical expertise in support of the research and development requirements in accordance with attachment number 1 and Section C.		\$	\$
0002	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
TOTAL ESTIMATED COST PLUS FIXED FEE \$			\$	\$

\* Not Separately Priced

MINIMUM AND MAXIMUM QUANTITIES

As contemplated by the clause of the solicitation entitled, "Indefinite Quantity", the minimum quantity that will be ordered by the Government during the effective period of the contract is research and development support requiring the contractor to provide a level of effort of 36,000 direct labor hours.

The maximum quantity that the Government may order during the effective period of the contract is research and development support requiring the contractor to provide a level of effort of 183,000 direct labor hours.

The minimum and maximum quantities may consist of any combination of the tasks contained in the statement of work.

**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>.

**C-3** The specific work to be carried out shall be further described in task orders issued under this contract.

**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**

52.246-5    -    Inspection Of Services - Cost Reimbursement (APR 1984)

**E-2 INSPECTION AND ACCEPTANCE**

Inspection and acceptance of the final delivery under this contract must be accomplished by the Contracting Officer's Representative (COR) designated in Section G of this contract within seven (7) days after delivery of final report. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5326.

**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 DELIVERIES OR PERFORMANCE**

(a)    The effective period of this contract during which delivery orders/task orders may be issued is from date of contract award through five (5) years

(b)    Each delivery order/task order shall specify the period of performance.

**SECTION G**

**CONTRACT ADMINISTRATION DATA**

**G-1 PROCURING OFFICE REPRESENTATIVE**

In order to expedite administration of this 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 –Dan Brinkworth, Code , (202) 767-6746, DSN 297-6746, or Telecopier (202)767-6197

Security Matters - Mr. Charles Rogers, Code 1221, (202) 767-2240, DSN 297-2240

Safety Matters - Mr. Kirk J. King, Code 1240, (202) 767-2232, DSN 297 2232

Patent Matters - Mr. Thomas McDonnell, Code 3008.2, (202) 767-3427, DSN 297-3427

Release of Data - Mr. Richard L. Thompson, Code 1230 (202) 767-2541, DSN 297-2541

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.

**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 may be personally liable for unauthorized acts. 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. This COR appointment shall be effective through the life of this contract unless otherwise relieved in writing and is not redelegable.

( \* 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 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.

  X is not required.

(f) A Certificate of Performance

   \*\* shall be provided with each invoice submittal.

  X 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-5 INCREMENTAL FUNDING**

Orders issued under this contract may be incrementally funded. Incrementally funded orders will contain a provision substantially as follows:

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

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

**G-6 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.

**G-7 ACCOUNTING AND APPROPRIATION DATA**

Each delivery order/task order will contain the accounting and appropriation data for payment under the contract.

**G-8 TASK ORDER PROCEDURES FOR INDEFINITE QUANTITY CONTRACTS**

The following procedure shall be followed when placing task orders under this contract:

- (a) Only properly appointed Contracting Officers employed at the Naval Research Laboratory (NRL) shall issue task orders under this contract.
- (b) A DD Form 1155 will be issued for each task order. The DD Form 1155, "Order for Supplies or Services", shall constitute the instrument for the placement of requirements under this contract.
- (c) Each task order shall be subject to FAR 52.232-20 Limitation of Cost or FAR 52.232-22 Limitation of Funds clause, as appropriate. Each task order is subject to the terms and conditions of the clause in Section H entitled, "Level of Effort Task Orders".
- (d) Prior to the issuance of a task order, the contractor will be provided with the statement of work and shall promptly submit a cost proposal for performing the work. The fixed fee shall be in the same proportion to the estimated cost for each task order as the maximum fixed fee is to the maximum estimated cost for the contract as set forth in Section B.
- (e) Task orders issued shall include, but not be limited to, the following information:
  - (1) Date of Order
  - (2) Contract Number and Task Order Number
  - (3) Accounting and Appropriation Data
  - (4) Description of the Work to be Performed
  - (5) Level of Effort
  - (6) DD Form 1423 (Contract Data Requirements List)
  - (7) Place of Performance
  - (8) Period of Performance
  - (9) Estimated Cost Plus Fixed Fee
  - (10) DD Form 254 (Contract Security Classification Specifications)
  - (11) List of Government furnished material and the estimated value thereof for each order.
- (f) The ceiling amount for each task order will be the ceiling price stated therein and may not be exceeded except when authorized by a modification to the task order.

**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 LEVEL OF EFFORT TASK ORDERS**

- (a) In the performance of each task order issued under this contract, the Contractor agrees to provide the level of effort specified in the task order and in accordance with this provision.
- (b) The level of effort per task order shall be expended at the average monthly rate specified therein. It is understood and agreed that the rate of direct labor hours expended each 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 task order.
- (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, at any time it is forecast that during the last three months of the task order 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 under a task order 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 under a task order such that the labor-hours of effort specified therein 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 ten days of receipt.
- (f) If the total level of effort specified in each task order is not provided by the Contractor during the term of the task order, the Contracting Officer shall either (i) reduce the fixed fee of the task order 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 the task order shall have been expended, at no increase in the fixed fee of the task order.

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

(h) Notwithstanding any of the provisions of the above paragraphs, the Contractor may furnish labor-hours up to five percent in excess of the total direct labor-hours specified in the task order 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 specified in the task order.

(i) It is understood that the mix of labor categories provided by the Contractor under the task order, 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 incorporated herein applies to each task order under this contract.

**H-4 SUBCONTRACTORS/CONSULTANTS**

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

Subcontractor/Consultant Name	Time or Unit	Estimated Cost
-------------------------------	--------------	----------------

(To be filled in at time of award)

(b) The Contracting Officer's consent required by Paragraph (c) of the contract clause entitled "Subcontracts (Cost-Reimbursement and Letter Contracts)" is hereby given for the listed subcontracts/consultants unless (i) they are of the cost-reimbursement, time-and-materials, or labor-hour type and are estimated to exceed \$10,000, including any fee, (ii) are proposed to exceed \$100,000, or (iii) are one of a number of subcontracts with a single subcontractor, under this contract, for the same or related supplies or services that, in the aggregate, are expected to exceed \$100,000. In such cases consent shall be requested from the Administrative Contracting Officer.

(c) Any changes to the above list must be authorized by the Administrative Contracting Officer (ACO).

**H-5 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-6 ORGANIZATIONAL CONFLICT OF INTEREST**

The Contractor (in its capacity as a prime Contractor, or as a Subcontractor, or as a Consultant or Supplier) agrees that it will not supply to the Department of Defense any system, subsystem, or major component utilized for or in connection with any item or other matter that is (directly or indirectly) the subject of the systems engineering, technical direction of other services performed under this contract during the period of performance.

For the purposes of this clause, the term "Contractor" means the Contractor, its subsidiaries and affiliates, joint ventures involving the Contractor or contract teaming partners, any entity with which the Contractor may hereafter merge or affiliate, and any other successor or assignee of the Contractor.

**H-7 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-far.npr.gov/References/References.html>

<http://www.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)
- 52.215-11 - Price Reduction for Defective Cost or Pricing Data - Modifications (OCT 1997)
- 52.215-13 - Subcontractor Cost or Pricing Data Modifications (OCT 1997)
- 52.215-14 - Integrity of Unit Prices (OCT 1997)
- 52.215-17 - Waiver of Facilities Capital Cost of Money (OCT 1997)
- 52.215-21 - Requirements for Cost and Pricing Data or Information Other Than Cost or Pricing Data - Modifications (OCT 1997) - Alternate IV (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (FEB 1998)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUL 1996)

- 52.219-8 - Utilization Of Small, Small Disadvantaged And Women-Owned Small Business Concerns (JUN 1997)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 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 (APR 1984) (DEVIATION)
- 52.222-26 - Equal Opportunity (APR 1984)
- 52.222-28 - Equal Opportunity Preaward Clearance Of Subcontracts (APR 1984)
- 52.222-35 - Affirmative Action For Special Disabled And Vietnam Era Veterans (APR 1984)
- 52.222-36 - Affirmative Action For Handicapped Workers (APR 1984)
- 52.222-37 - Employment Reports On Special Disabled Veterans And Veterans Of The Vietnam Era (JAN 1988)
- 52.223-2 - 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 (MAR 1997)
- 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 (OCT 1996)
- 52.227-1 - Authorization And Consent (JUL 1995)
- 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)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 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)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (JUN 1997)
- 52.232-33 - Mandatory Information For Electronic Funds Transfer Payment (AUG 1996)
- 52.233-1 - Disputes (OCT 1995)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-10 - Identification of Uncompensated Overtime (OCT 1997)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (OCT 1995)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate I (APR 1984)
- 52.244-2 - Subcontracts (Cost-Reimbursement And Letter Contracts) (OCT 1997) - Alternate I

- (AUG 1996)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
  - 52.244-6 - Subcontracts for Commercial Items and Commercial Components (OCT 1995)
  - 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
  - 52.245-9 - Use And Charges (APR 1984) (DEVIATION)
  - 52.245-18 - Special Test Equipment (FEB 1993)
  - 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
  - 52.246-23 - Limitation Of Liability (FEB 1997)
  - 52.246-25 - Limitation Of Liability - Services (FEB 1997)
  - 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
  - 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
  - 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
  - 52.249-14 - Excusable Delays (APR 1984)
  - 52.251-1 - Government Supply Sources (APR 1984)
  - 52.252-6 - Authorized Deviations in Clauses (APR 1984) fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2)
  - 52.253-1 - Computer Generated Forms (JAN 1991)

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

**DFARS CLAUSE    TITLE**

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Special Prohibition On Employment (JUN 1997)
- 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)
- 252.205-7000 - 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)
- 252.223-7001 - Hazard Warning Labels (DEC 1991)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (JAN 1994)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7012 - Preference For Certain Domestic Commodities (FEB 1997)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (NOV 1995)
- 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)
- 252.227-7016 - Rights In Bids or Proposal Information (JUN 1995)
- 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)
- 252.232-7006 - Reduction Or Suspension Of Contract Payments Upon Finding Of Fraud (AUG 1992)
- 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 - Certification of Requests for Equitable Adjustment (JUL 1997)
- 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)
- 252.251-7000 - Ordering From Government Supply Sources (MAY 1995)

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

(a) Definitions.

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

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

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

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

**I-3 DFARS 252.225-7008 - SUPPLIES TO BE ACCORDED DUTY- FREE ENTRY (DEC 1991)**

In accordance with paragraph (a) of the Duty-Free Entry clause and/or paragraph (b) of the Duty-Free Entry--Qualifying Country End Products and Supplies clause of this contract, the following supplies are accorded duty-free entry:

**I-4 FAR 52.216-18 ORDERING (OCT 1995)**

(a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from date of contract award through five (5) years.

(b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.

(c) If mailed, a delivery order or task order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

**I-5 FAR 52.216-19 ORDER LIMITATIONS (OCT 1995)**

(a) *Minimum order.* When the Government requires supplies or services covered by this contract in an amount of less than 2000 hours, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) *Maximum order.* The Contractor is not obligated to honor -

(1) Any order for a single item in excess of \$4,000,000

(2) Any order for a combination of items in excess of \$6,000,000 or

(3) A series of orders from the same ordering office within 60 days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

(c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) above.

(d) Notwithstanding paragraphs (b) and (c) of this section, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within 60 days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

**I-6 FAR 52.216-22 INDEFINITE QUANTITY (OCT 1995)**

- (a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.
- (b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum". The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum".
- (c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.
- (d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after ninety (90) days following the expiration of the contract.

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

**SECTION J**

**LIST OF ATTACHMENTS**

- J-1** Attachment (1) - Statement Of Work -11Pages with enclosures (1), (2), and (3) and Exhibit A - DD Form 1423, Contract Data Requirements And Enclosure (1) - Instructions For Distribution- 3 Pages
- J-2** Attachment ( 2) - DD 254, Contract Security Classification Specification Form Ser 124-97 Dated 971117 - 2 Pages

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

**K-1** The following Representations, Certifications, and Other Statements Of Offerors or Respondents are incorporated 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.

**FAR CLAUSE TITLE**

52.203-11 - Certification And Disclosure Regarding Payments To Influence Certain Federal Transactions (APR 1991)

**DFARS CLAUSE TITLE**

252.209-7001 - Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (SEP 1994)

**K-2** FAR 52.204-3 - TAXPAYER IDENTIFICATION (JUN 1997)

(a) *Definitions.*

"Common parent," as used in the solicitation provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Corporate status," as used in this solicitation provision, means a designation as to whether the offeror is a corporate entity, an unincorporated entity, (e.g., sole proprietorship or partnership), or corporation providing medical and health care services.

"Taxpayer Identification Number (TIN)," as used in this solicitation provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns.

(b) All offerors are required to submit the information required in paragraphs (c) through (e) of this solicitation provision in order to comply with reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to reporting requirements described in FAR 4.903, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) *Taxpayer Identification Number (TIN).*

TIN: \_\_\_\_\_.

TIN has been applied for.

TIN is not required because:

Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;

Offeror is an agency or instrumentality of a foreign government;

Offeror is an agency or instrumentality of a Federal, state, or local government;

Other. State basis. \_\_\_\_\_

(d) *Corporate Status.*

Corporation providing medical and health care services, or engaged in the billing and collecting of payments for such services;

Other corporate entity;

Not a corporate entity;

Sole proprietorship

Partnership

Hospital or extended care facility described in 26 CFR 501(c)(3) that is exempt from taxation under 26 CFR 501(a).

(e) *Common Parent.*

Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.

Name and TIN of common parent:

Name \_\_\_\_\_

TIN \_\_\_\_\_

**K-3 FAR 52.204-5 -WOMAN-OWNED BUSINESS (OCT 1995)**

(a) *Representation.* The offeror represents that it  is,  is not a women-owned business concern.

(b) *Definition.* "Women-owned business concern," as used in this provision, means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

**K-4 FAR 52.209-5 - CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (MAR 1996)**

(a)(1) The Offeror certifies, to the best of its knowledge and belief, that-

(i) The Offeror and/or any of its Principals-

(A) Are  are not  presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have  have not , within a 3-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(C) Are  are not  presently indicted for, or otherwise criminally or civilly charged by a governmental entity with commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.

(ii) The Offeror has  has not , within a 3-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

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

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror non-responsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

**K-5 FAR 52.215-4 -TYPE OF BUSINESS ORGANIZATION (OCT 1997)**

The offeror or respondent, by checking the applicable box, represents that -

(a) It operates as  an individual,  a partnership,  a nonprofit organization,  a joint venture, or  a corporation incorporated under the laws of the State of \_\_\_\_\_.

(b) If the offeror or respondent is a foreign entity, it operates as  an individual,  a partnership,  a nonprofit organization,  a joint venture, or  a corporation, registered for business in \_\_\_\_\_.  
(country)

**K-6 FAR 52.215-6 -PLACE OF PERFORMANCE (OCT 1997)**

(a) The offeror or respondent, in the performance of any contract resulting from this solicitation,  intends,  does not intend [check applicable block] to use one or more plants or facilities located at a different address from the address of the offeror or respondent as indicated in this proposal or response to request for information.

(b) If the offeror or respondent checks "intends" in paragraph (a) of this provision, it shall insert in the following spaces the required information:

PLACE OF PERFORMANCE  
(STREET ADDRESS, CITY,  
STATE, COUNTY, ZIP CODE)

NAME AND ADDRESS OF OWNER  
AND OPERATOR OF THE PLANT  
OR FACILITY IF OTHER THAN  
OFFEROR OR RESPONDENT

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

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

**K-7 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (JAN 1997)**

(a) (1) The standard industrial classification (SIC) code for this acquisition is \_\_8711\_\_.

(2) The small business size standard is \_\_\$20M\_\_.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) *Representation.*

(1) The offeror represents as part of its offer that it  is ,  is not a small business concern.

(2) (Complete only if offeror represented itself as a small business concern in block (b)(1) of this section.) The offeror represents as part of its offer that it  is,  is not a small disadvantaged business concern.

(3) (Complete only if offeror represented itself as a small business concern in block (b)(1) of this section.) The offeror represents as part of its offer that it  is,  is not a women-owned small business concern.

(c) *Definitions.* "Small business concern", as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in CFR Part 121 and the size standard in paragraph (a) of this provision.

"Small disadvantaged business concern", as used in this provision, means a small business concern that (1) is at least 51 percent unconditionally owned by one or more individuals who are both socially and economically disadvantaged, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more socially and economically disadvantaged individuals, and (2) has its management and daily business controlled by one or more such individuals. This term also means a small business concern that is at least 51 percent unconditionally owned by an economically disadvantaged Indian tribe or Native Hawaiian Organization, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more of these entities, which has its management and daily business controlled by members of an economically disadvantaged Indian tribe or Native Hawaiian Organization, and which meets requirements of 13 CFR Part 124.

"Women-owned small business concern", as used in this provision, means a small business concern -

(1) Which is at least 51 percent owned by one or more women or, in the case of any

publicly owned business , at least 51 percent of the stock of which is owned by one ore more women; and

(2) Whose management and daily business operations are controlled by one ore more women.

(d) *Notice.*

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small or small disadvantaged business concern in order to obtain a contract to be awarded under the preference programs established pursuant to sections 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall --

- (i) Be punished by imposition of fine, imprisonment, or both;
- (ii) Be subject to administrative remedies, including suspension and debarment; and
- (iii) Be ineligible for participation in programs conducted under the authority of the Act.

**K-8 FAR 52.222-22 - PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (APR 1984)  
(DEVIATION)**

The offeror represents that--

- (a) It  has,  has not participated in a previous contract or subcontract subject either to the Equal Opportunity clause of this solicitation,
- (b) It  has,  has not filed all required compliance reports; and
- (c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

**K-9 FAR 52.222-25 - AFFIRMATIVE ACTION COMPLIANCE (APR 1984)**

The offeror represents that--

- (a) It  has developed and has on file,  has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of

Labor (41 CFR 60-1 and 60-2), or

(b) It  has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

**K-10 FAR 52.223-1 - CLEAN AIR AND WATER CERTIFICATION (APR 1984)**

The Offeror certifies that--

(a) Any facility to be used in the performance of this proposed contract is , is not  listed on the Environmental Protection Agency List of Violating Facilities;

(b) The Offeror will immediately notify the Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, of the Environmental Protection Agency, indicating that any facility that the Offeror proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and

(c) The Offeror will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.

**K-11 FAR 52.223-13 - CERTIFICATION OF TOXIC CHEMICAL RELEASE REPORTING (OCT 1996)**

(a) Submission of this certification is a prerequisite for making or entering into this contract imposed by Executive Order 12969, August 8, 1995.

(b) By signing this offer, the offeror certifies that --

(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or

(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons: (*Check each block that is applicable*)

(l) The facility does not manufacture, process, or otherwise use any toxic chemicals listed under section 313(c) of EPCRA, 42 U.S.C. 11023(c);

(ii) The facility does not have 10 or more full-time employees as specified in section 313(b)(1)(A) of EPCRA, 42 U.S.C. 11023(b)(1)(A);

(iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);

(iv) The facility does not fall within Standard Industrial Classification Code (SIC) designations 20 through 39 as set forth in section 19.102 of the Federal Acquisition Regulation; or

(v) The facility is not located within any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Northern Mariana Islands, or any other territory or possession over which the United States has jurisdiction.

**K-12 FAR 52.226-2 - HISTORICALLY BLACK COLLEGE OR UNIVERSITY AND MINORITY INSTITUTION REPRESENTATION (MAY 1997)**

(a) *Definitions.* As used in this provision--

“Historically Black College or University” means an institution determined by the Secretary of Education to meet the requirements of 34 CFR 608.2. For the Department of Defense, the National Aeronautics and Space Administration, and the Coast Guard, the term also includes any nonprofit research institution that was an integral part of such a college or university before November 14, 1986.

“Minority Institution” means an institution of higher education meeting the requirements of Section 1046(3) of the Higher Education Act of 1965 (20 U.S.C. 1135d-5(3)) which, for the purpose of this provision, includes a Hispanic-serving institution of higher education as defined in Section 316(b)(1) of the Act (20 U.S.C. 1059c(b)(1)).

(b) *Representation.* The offeror represents that it--

is  is not a Historically Black College or University;

is  is not a Minority Institution.

**K-13 FAR 52.227-6 - ROYALTY INFORMATION (APR 1984)**

(a) *Cost or charges for royalties.* When the response to this solicitation contains costs or charges for royalties totaling more than \$250, the following information shall be included in the response relating to each separate item of royalty or license fee:

- (1) Name and address of licensor.
- (2) Date of license agreement.

- (3) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable.
- (4) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable.
- (5) Percentage or dollar rate of royalty per unit.
- (6) Unit price of contract item.
- (7) Number of units.
- (8) Total dollar amount of royalties.

(b) *Copies of current licenses.* In addition, if specifically requested by the Contracting Officer before execution of the contract, the offeror shall furnish a copy of the current license agreement and an identification of applicable claims of specific patents.

**K-14 DFARS 252.209-7002 DISCLOSURE OF OWNERSHIP OR CONTROL BY A FOREIGN GOVERNMENT (SEP 1994)**

(a) *Definitions.*

As used in this provision --

(1) "Effectively owned or controlled" means that a foreign government or any entity controlled by a foreign government has the power, either directly or indirectly, whether exercised or exercisable, to control or influence the election, appointment, or tenure of the Offeror's board of directors by any means, e.g., ownership, contract, or operation of law (or equivalent power for unincorporated organizations).

(2) "Entity controlled by a foreign government" --

(i) Means --

(A) Any domestic or foreign organization or corporation that is effectively owned or controlled by a foreign government; or

(B) Any individual acting on behalf of a foreign government.

(ii) Does not include an organization or corporation that is owned, but is not controlled, either directly or indirectly, by a foreign government of the ownership of that organization or corporation by that foreign government was effective before October 23, 1992.

(3) "Foreign government" includes the state and the government of any country (other than the United States and its possessions and trust territories) as well as any political subdivision, agency, or instrumentality thereof.

(4) "Proscribed information" means --

- (i) Top Secret information;
- (ii) Communications Security (COMSEC) information, except classified keys used to operate secure telephone units (STU IIIs);
- (iii) Restricted Data as defined in the U.S. Atomic Energy Act of 1954, as amended;
- (iv) Special Access Program (SAP) information; or
- (v) Sensitive Compartmented Information (SCI).

(b) *Prohibited on award.*

No contract under a national security program may be awarded to an entity controlled by a foreign government if that company requires access to proscribed information to perform the contract, unless the Secretary of Defense or a designee has waived application of 10 U.S.C. 2536(a).

(c) *Disclosure.*

The Offeror shall disclose any interest a foreign government has in the Offeror when that interest constitutes control by a foreign government as defined in this provision. If the Offeror is a subsidiary, it shall also disclose any reportable interest a foreign government has in any entity that owns or controls the subsidiary, including reportable interest concerning the Offeror's immediate parent, intermediate parents, and the ultimate parent. Use separate paper as needed, and provide the information in the following format:

Offeror's Point of Contact for Questions about Disclosure (Name and Phone Number with Country Code, City Code and Area Code, as applicable)

Name and Address of Offeror

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Name and Address of Entity Controlled by a Foreign Government	Description of Interest, Ownership Percentage, and Identification of Foreign Government
<hr/>	<hr/>
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<hr/>	<hr/>

**K-15 DFARS 252.219-7000 - SMALL DISADVANTAGED BUSINESS CONCERN REPRESENTATION (DOD CONTRACTS) (JUN 1997)****(a) Definition.**

Small disadvantaged business concern, as used in this provision, means a small business concern, owned and controlled by individuals who are both socially and economically disadvantaged, as defined by the Small Business Administration at 13 CFR Part 124, the majority of earnings of which directly accrue to such individuals. This term also means a small business concern owned and controlled by an economically disadvantaged Indian tribe or Native Hawaiian organization which meets the requirements of 13 CFR Part 124.112 or 124.113, respectively. In general, 13 CFR Part 124 describes a small disadvantaged business concern as a small business concern--

- (1) Which is at least 51 percent unconditionally owned by one or more socially and economically disadvantaged individuals; or
- (2) In the case of any publicly owned business, at least 51 percent of the voting stock of which is unconditionally owned by one or more socially and economically disadvantaged individuals; and
- (3) Whose management and daily business operations are controlled by one or more such individuals.

**(b) Representations.**

Check the category in which your ownership falls--

\_\_\_\_\_ Subcontinent Asian (Asian-Indian) American (U.S. citizen with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal)

\_\_\_\_\_ Asian-Pacific American (U.S. Citizen with origins from Japan, China, the Philippines, Vietnam, Korea, Samoa, Guam, U.S. Trust Territory of the Pacific Islands (Republic of Palau), the Northern Mariana Islands, Laos, Kampuchea (Cambodia), Taiwan, Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Republic of the Marshall Islands, the Federated States of Micronesia, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru)

\_\_\_\_\_ Black American (U.S. Citizen)

\_\_\_\_\_ Hispanic American (U.S. Citizen with origins from South America, Central America, Mexico, Cuba, the Dominican Republic, Puerto Rico, Spain, or Portugal)

\_\_\_\_\_ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians including

Indian tribes or Native Hawaiian organizations)

\_\_\_\_\_ Individual/concern, other than one of the preceding, currently certified for participation in the Minority Small Business and Capital Ownership Development Program under Section 8(a) of the Small Business Act

\_\_\_\_\_ Other

(c) *Certifications.*

Complete the following--

- (1) The Offeror is \_\_\_ is not \_\_\_ a small disadvantaged business concern.
- (2) The Small Business Administration (SBA) has \_\_\_ has not \_\_\_ made a determination concerning the offeror's status as a small disadvantaged business concern. If the SBA has made a determination, the date of the determination was \_\_\_\_\_ and the Offeror--
  - \_\_\_\_\_ Was found by SBA to be socially and economically disadvantaged and no circumstances have changed to vary that determination.
  - \_\_\_\_\_ Was found by SBA not to be socially and economically disadvantaged but circumstances which caused the determination have changed.

(d) *Penalties and Remedies.*

Anyone who misrepresents the status of a concern as a small disadvantaged business for the purpose of securing a contract or subcontract shall--

- (1) Be punished by imposition of a fine, imprisonment, or both;
- (2) Be subject to administrative remedies, including suspension and debarment; and
- (3) Be ineligible for participation in programs conducted under authority of the Small Business Act.

**K-16** DFARS 252.226-7001 - HISTORICALLY BLACK COLLEGE OR UNIVERSITY AND MINORITY INSTITUTION STATUS(JAN 1997)

(a) *Definitions.*

"Historically black colleges and universities," as used in this provision, means institutions determined by the Secretary of Education to meet the requirements of 34 CFR 608.2.

"Minority institutions," as used in this provision, means institutions meeting the requirements of paragraphs (3), (4), and (5) of Section 321(b) of the Higher Education Act of 1965 (20 U.S.C. 1058). The term also means any nonprofit research institution that was an integral part

of a historically black college or university before November 14, 1986.

(b) *Certification.*

The Offeror certifies that it is--

\_\_\_\_\_A historically black college or university

\_\_\_\_\_A minority institution

(c) *Notification.*

Notify the Contracting Officer before award if your status as a historically black college or university or minority institution changes.

**K-17** DFARS 252.247-7022 - REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA (AUG 1992)

(a) The Offeror shall indicate by checking the appropriate blank in paragraph(b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term "supplies" is defined in the Transportation of Supplies by Sea clause of this solicitation.

(b) *Representation.*

The Offeror represents that it--

\_\_\_\_\_Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

\_\_\_\_\_Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notice of Transportation of Supplies by Sea.

**K-18** COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING

The Offeror's CAGE Code is\_\_\_\_\_.

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-far.npr.gov/References/References.html>

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

**FAR CLAUSE    TITLE**

52.204-6	-	Contractor Identification Number - Data Universal Numbering System (DUNS) Number (DEC 1996)
52.211-2	-	Availability of Specifications Listed in the DOD Index of Specifications and Standards (DODISS) (JUN 1997)
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 Review (APR 1984)DEVIATION
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 described below.

See Section L-12

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

The Government contemplates award of an Indefinite Delivery Indefinite Quantity type contract with Task orders 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 for Rights AssertingWith Restrictions*	Asserted Assertion**	Name of Person to be Furnished Category***	Basis 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 DFARS 252.237-7019 - IDENTIFICATION OF UNCOMPENSATED OVERTIME (APR 1992)****(a) Definitions.**

As used in this provision--

- (1) "Uncompensated overtime" means the hours worked in excess of an average of 40 hours per week by direct charge employees who are exempt from the Fair Labor Standards Act (FLSA) without additional compensation. Compensated personal absences, such as holidays, vacations, and sick leave, shall be included in the normal work week for purposes of computing uncompensated overtime hours.
  - (2) "Uncompensated overtime rate" is the rate which results from multiplying the hourly rate for a 40 hour work week by 40, and then dividing by the proposed hours per week. For example, 45 hours proposed on a 40 hour work week basis at \$20.00 would be converted to an uncompensated overtime rate of \$17.78 per hour.  $(\$20 \times 40) \text{ divided by } 45 = \$17.78$ .
- (b) For any hours proposed against which an uncompensated overtime rate is applied, the Offeror shall identify in its proposal the hours in excess of an average of 40 hours per week, at the same level of detail as compensated hours, and the uncompensated overtime rate per hour, whether at the prime or subcontract level. This includes uncompensated overtime hours that are indirect cost pools for personnel whose regular hours are normally charged direct.
  - (c) The Offeror's accounting practices used to estimate uncompensated overtime must be consistent with its cost accounting practices used to accumulate and report uncompensated overtime hours.
  - (d) Proposals which include unrealistically low labor rates, or which do not otherwise demonstrate

cost realism, will be considered in a risk assessment and evaluated for award in accordance with that assessment.

- (e) The Offeror shall include a copy of its policy addressing uncompensated overtime with its proposal.

**L-10 GOVERNMENT-FURNISHED PROPERTY**

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

**L-11 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-12 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS**

(1) Information for the technical and management proposal shall be placed in Volume I and be completely separate from the cost 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. N00173-98-R-DB03**  
**Closing Date:**  
**(As specified in Block 9, RFP face page)**  
**Attn: Code 3230**

(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.

(4) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price.

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

VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

**Technical Factor (1): Personnel Qualifications**

The offeror should provide convincing proof that the offeror has, or has the ability to obtain, personnel with relevant experience in the scientific and technical areas described in the statement of work. These are highly specialized fields and personnel without actual experience in these areas are not acceptable. The proposal should indicate the specific key personnel who will work on this contract, their background and pertinent experience, and the amount of effort each will be performing on this contract. This will include the education level, experience, both general and project related. The proposal must show the availability of sufficient key project professional and technical personnel by the prime contract as well as any proposed subcontractors and consultants.

**Technical Factor (2): Company Experience**

The proposal must provide a narrative description of company experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show: (1) the relationship between the company's experience and the tasks required under the Statement of Work and (2) prior or current programs in the task areas.

**Technical Factor (3): Management Ability**

The proposal must provide a narrative description of company management experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show previous performance at meeting instrument performance, cost and schedule goals on these projects.

**Technical Factor (4): Past Performance**

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

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

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is available at <http://www.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.

### VOLUME II - COST PROPOSAL

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

Offerors are requested to provide one copy of their cost proposal on a PC formatted disk that is readable by Excel

TRAVEL AND MATERIAL ESTIMATES (FOR EVALUATION PURPOSES ONLY) are contained in Enclosures 2 and 3 respectively of Attachment Number 1.

The offeror shall submit 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-13 ANTICIPATED DISTRIBUTION OF DIRECT LABOR HOURS BY LABOR CATEGORIES**

The following is the anticipated distribution by labor category of the maximum level of effort. 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 matrix clearly relating their proposed labor categories to those in this provision.

Labor Category	Hours
Sr. Program Manager	9,400
Principal Scientist, Theoretical/Experimental Physics	18,800
Sr. Systems Eng., Communications	9,400
Sr. Systems Eng., Software	9,400
Principal Scientist, Image and Signal Processing	9,400
Systems Eng., Terrestrial Systems	9,400
Sr. Systems Eng., Guidance, Navigation, and Controls	18,800
Eng., Digital Hardware or Software	18,800
Eng., General Design and Support	18,800
Project Analyst	9,400
Technical Writer/Editor	14,100
Sr. Computer Graphics Artist	18,800
Administrative, Clerical, and Graphics Support	18,800

**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 cost, the closer the technical scores of the various proposals are to one another, the more important cost considerations become.

**M-2 EVALUATION FACTORS FOR AWARD**

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. The technical subfactors are listed in descending order of importance. The cost subfactors are listed in descending order of importance.

Technical Factor (1)-- The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with: (1) the appropriate qualifications set forth in Enclosure (1) of the Statement of Work; and (2) actual relevant experience in the technical and scientific areas set forth in the Statement of Work.

Technical Factor (2)-- The proposal will be evaluated on the offeror's demonstrated company experience in performing projects requiring scientific and technical effort which is closely similar or related to the scientific and technical efforts set forth in the Statement of Work.

Technical Factor (3)— The proposal will be evaluated on the offeror's demonstrated management ability and success in managing projects of similar complexity and duration as that set forth in the Statement of Work.

Technical Factor (4)-- 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 –12 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).

I. COST

(1) PROPOSED OVERALL COST

Proposed estimated cost and fixed-fee.

(2) THE REALISM OF THE PROPOSED COST

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 Government may adjust the proposed cost for purposes of evaluation based upon the results of the cost realism evaluation.

# NAVAL RESEARCH LABORATORY

STATEMENT OF WORK

FOR

SYSTEMS ENGINEERING ANALYSIS AND TECHNICAL SUPPORT

FOR

INNOVATIVE CONCEPTS AND ADVANCED TECHNOLOGY DEMONSTRATIONS



4555 Overlook Avenue, S.W.

Washington, D.C. 20375-5000

ATTACHMENT NUMBER 1

## **1. Introduction**

The Naval Research Laboratory's (NRL) space research and development program objectives are to preserve and enhance a strong space technology base and to provide expert capabilities in the development and acquisition of space and ground systems. To meet that charter, NRL conducts a broad range of space technology studies and other pertinent applied research and development (R&D) projects. NRL applies systems engineering, applied research and development, and technical expertise to a wide-ranging suite of scientific, operational, and quick reaction space, terrestrial, and command, control, communications, computers, and intelligence (C<sup>4</sup>I) missions. NRL develops and applies technologies for future space systems, space transportation systems, and C<sup>4</sup>I efforts, and transitions these technologies to industry for operational systems.

The scope of NRL's efforts is quite broad and entails multi-disciplinary approaches to discovering and applying new knowledge and technologies to space and avionics applications and designing, fabricating, testing, and operating space systems and related technology systems (e.g., space and ground systems, launch vehicle integration, and mission operations). Recent examples of these efforts include: the Interim Control Module (ICM), the Hyperspectral Remote Sensing Technology (HRST) initiative, the Tether Physics and Survivability (TiPS) Experiment; the Microelectronics Photonics Test Bed (MPTB); the Breakout Information Age Technology (BiaTECH) demonstration; the CLEMENTINE Deep Space Program Science Experiment (DSPSE) advanced technology demonstration (ATD); the Low Power Atmospheric Compensation Experiment (LACE) laser compensation and plume experiment space test vehicle; the Improved Data Modem for avionics applications; the Special Sensor Ultraviolet Limb Imager (SSULI) scientific instrument for the Defense Meteorological Support Program (DMSP); and hybrid engine concepts.

## 2. Scope

NRL has a requirement to support applied R&D programs with U.S. Navy and non-Navy sponsors, where the results of such efforts may be of interest to the Navy. NRL has a number of projects at various stages of development, including conceptual or design phases of advanced, leading edge projects that may be included in future space systems. Some of these projects involve long-term development, while others emphasize short time-frame deliveries of advanced technology systems.

To meet these needs, the contractor shall provide technical, engineering, scientific, and logistical expertise to support the NRL in the areas of research, development, test and evaluation (RDT&E), and operation of advanced concept and prototype spacecraft and their payloads, and their launch systems, airborne systems, and related innovative technology development. Efforts will range from concept exploration through specification formulation, development, test, integration, launch, operations, proof-of-concept and quick-reaction capability (QRC) demonstrations, innovative solutions for wide area remote sensing, information age technologies, space systems architectures, and advanced launch vehicle systems.

The requirements will include development of appropriate hardware and systems; systems analysis, planning, management, and engineering; analysis and planning for the collection, reduction, analysis, and documentation of space experiments and operational data; modeling and simulation; test and evaluation; and logistics support.

Recent NRL projects have entailed building smaller high-technology space systems in a short time-frame. Due to the fast-track nature of some of these projects, the contractor shall support NRL or provide independent concurrent engineering of specified space systems, subsystems, components, and procedures. The contractor shall test and evaluate work in progress; initiate alternative or parallel inquiries; and otherwise verify the technical validity of concepts, designs, components, and procedures.

### **3. Requirements**

This section provides NRL's requirements under this procurement. Unless otherwise specified, the Contractor shall perform the tasks, render the services, provide the facilities, and deliver all supplies, equipment, items, and services as set forth herein.

#### **3.1 Technical and Scientific Assessment**

The contractor shall provide technical and scientific assessment tasks for exploratory R&D and advanced technology development projects. The Contractor shall perform technical studies related to space, payload, launch, and ground system applications, designs, and laboratory tests. On the basis of these assessments, the contractor shall report recommendations regarding mission applications, techniques, designs, and testing protocols. This includes efforts related to technical data reduction and analysis of sensor data with respect to bench, static, dynamic, and flight tests, along with correlation with other space and avionics payloads, sensors, and related systems technology. (CDRL A003, A006, A007)

#### **3.2 System Engineering**

The Contractor shall provide technical expertise for system interface definitions, interoperability and performance assessments, and design alternatives for space, launch, and terrestrial systems. The Contractor shall meet with NRL engineers, scientists, users, and other agencies designated by the Contracting Officer's Representative (COR) to document system requirements. The contractor shall generate: system performance requirements documents and specifications, project requirements, product assessments, and the analysis and test of the technical performance.

The Contractor shall document technical specifications in COR approved formats. The Contractor shall coordinate and develop interface control documents (ICD) required in the interoperability design and assessment. The Contractor shall monitor and support systems engineering activities, review and develop related documentation, participate in the conceptualization of a system design, and provide for an integrated logistical and systems engineering planning. Contractor tasks include experiment requirements and definition, system requirements allocation, system design and analysis, and test requirements definition and planning.

The Contractor shall prepare technical assessments and reports to identify, recommend, and implement resolutions of critical design and/or performance deficiencies. The Contractor shall provide system-level integration test plans and procedures and shall originate technical orientation briefings. The Contractor shall review hardware, automated systems, operations, facilities, and management documents for compliance with the project-established standards and plans. (CDRL A003, A006, A007)

### **3.3 Quick Reaction and Rapid Prototyping**

The Contractor shall become familiar with existing NRL equipment and program assets (e.g., Blossom Point Command and Tracking Facility, Transportable Ground Station (TGS), Launch Control Center (LCC), Mission Operations Center (MOC) and the Portable Ground Station (PGS)) to maximum use of non-developmental items (NDI) in a Quick Reaction Capability (QRC) situation. The contractor shall provide QRC feasibility investigations and analyses in specific space, terrestrial, and launch system technology research areas and in the areas related to the tasks described herein. The Contractor shall participate in all aspects of QRC and rapid prototyping efforts to include flight test and other system tests and evaluation projects (such as image data collection and processing, launch support, electronic command and control, and interface operating functions). The contractors shall use NRL Government Furnished Equipment (GFE) in the deployment, installation, and operation of these systems. The contractor shall perform appropriate engineering design, equipment modification, component integration, and test of deployable command and control subsystems. The Contractor shall perform technical analyses, trade studies, and risk analyses. The contractor shall document and present the evaluations, resultant designs, and recommendations for enhancement to the COR. (CDRL A003, A006, A007)

### **3.4 Demonstration and Operations**

The contractor shall support capability and performance testing, and application demonstrations of NRL space and ground systems. The Contractor shall provide systems analysis, engineering R&D, documentation, integration and test, and logistics to support demonstration efforts. These efforts will include using ATDs, operational test beds and imagery displays, command and control of prototype as well as one-of-a-kind systems. Demonstrations will incorporate protocols using RF and fiber optic links to demonstrate the high-speed transfer of sensor data from common ground stations to processing sites located at diverse locations. (CDRL A003, A006, A007)

### **3.5 Design and Integration**

The contractor shall provide the engineering effort to support the design of a space vehicle system capable of rendezvous and docking to form a single integrated space vehicle. The contractor shall review the design and analysis of the space vehicle system, as well as the design and integration activities of the space vehicle as a separate vehicle. The contractor shall consider the development of alternate design approaches for propulsion, avionics, and structures. The contractor shall conduct design and development tasks including building breadboards and brassboards, engineering release, fabrication planning, and test planning for the subsystems. The contractor shall initiate development and checkout of the software necessary for operation and test of the space vehicle and its subsystems (CDRL A003, A006, A007)

### **3.6 Optical Payloads**

The contractor shall provide for optical payload systems including the design of an engineering integrated optical payload and subsystems that meet approved system specifications and requirements. The contractor shall define optical payload subsystem requirements, optical payload performance and integration, definition/design of optical payload functional test bed and mockups. The contractor shall provide optical payload planning and support as well as subcontractor system engineering support. The contractor shall initiate optical payload planning activities, including optical payload operations planning, concept development, design reviews, and system evaluations. The contractor shall support optical payload requirements tasking and working group activities including Program Management, Systems Engineering and Integration, Space Vehicle, Ground Segment, Test, and Launch Operations, and Quality or Safety working groups. This task includes the design, analysis, and development (including breadboards or brassboards, as required), and planning for fabrication and test of the subsystems of the optical payload. It also includes the development of the software necessary to operate and test the optical payload and its subsystems. Procurement requirements definition is included in this task and the initiation of procurement for hardware fabrication. (CDRL A003, A006, A007)

### **3.7 Ground Systems**

The Contractor shall support the design and development of ground segment and related flight operations infrastructure. Such ground systems will support the command, control, and communications elements of the ground segment, along with

the payload tasking, collection, and data processing functions. The design for the ground segment shall be consistent with the requirements established in the Spacecraft-to-Ground Segment Specification and related ICDs. The Contractor shall present the system trades, special studies, and the recommended system design approach during design reviews. The Contractor shall design, fabricate, procure, modify, and adapt Ground Support Equipment (GSE) to support spacecraft, payload, and launch vehicle processing requirements. Typical GSE elements will include: Mechanical and Electrical Aerospace Ground Support Equipment (MAGE/EAGE), thermal chambers (vacuum/cycle/shock), ordnance systems, Engineering Development Models (EDM) and related support structures, environmental test data acquisition systems, command and data handling systems, wiring harnesses, and supporting engineering design systems (e.g., CAD/CAM). (CDRL A003, A006, A007)

### **3.8 Image Processing**

The contractor shall conceptualize and implement methodologies for the collection, implementation, and archival of imaging data from space and airborne platforms. The contractor shall develop and operate systems for converting realtime imagery on to storage media and processing the data into standard datasets. Such systems shall process the data to Level 1a (including radiometric and geometric calibrations) for standard data sets; for selected data sets products shall be created beyond Level 1a using algorithms supplied by the NRL. Metadata and browse files shall be generated, with metadata tags that include quality and cloud cover statistics, calibration values, engineering, and attitude data. Data products shall be made available using a mix of NRL and other archival assets using commercial, non-proprietary browsers and standard media. Equipment procurement requirements definition is included in this task. (CDRL A003, A006, A007)

### **3.9 General Laboratory Support**

The contractor shall design, procure, fabricate, assemble, test, calibrate, and maintain specialized laboratory equipment, models and test beds, MAGE/EAGE, GSE, instrumentation, and their support facilities. (CDRL A003, A006, A007)

### **3.10 Payload Processing**

The Contractor shall provide engineering services to support the requirements of the selected launch range(s). These activities include the review of facility provisions, assessment of the launch range requirements for each mission, and verification that the

requirements are met. This task shall include coordination with the applicable range safety and logistical personnel to plan, assemble, consolidate, and control the information necessary to assure a safe and efficient launch operation according to the requirements set forth in applicable launch and test range regulations.

The Contractor shall conduct preliminary planning necessary to determine spacecraft and launch vehicle integration requirements, launch operations, and aerospace support equipment requirements.

The Contractor shall become familiar with existing NRL test plans, detailed operating procedures, and safety hazard reports. The contractor shall utilize these existing documents to the maximum extent possible. The Contractor shall provide technical support to the payload and launch vehicle working groups with respect to payload development, launch vehicle integration, training, launch processing, pre-flight and post-flight operations, and all related activities for a particular mission.

The Contractor shall provide documentation for the payload and launch vehicle processing activities. This shall include data, experiment and spacecraft ground controls, plans and procedures, launch vehicle and spacecraft verifications, ground simulations and controls, and functional tests to support the processing and integration environment. The Contractor shall develop, maintain, and revise detailed operating procedures as required by ground tests, hardware and software functional tests, and ground crew training.

The Contractor shall apply safety engineering and safety management principles, criteria, and techniques as a formal system safety program to optimize safety and enhance mission effectiveness within the constraints of operational effectiveness, time, and cost.

The contractor shall develop safety procedures that incorporate early hazard identification and evaluation. In addition, to preclude system damage or injury to personnel, the contractor shall devise safety procedures designed to eliminate and/or reduce residual risks. All contractor activities shall interface and coordinate with the NRL's designated Safety Manager in defining and implementing the requirements defined herein. (CDRL A003, A006, A007)

### **3.11 Technical Documentation**

The contractor shall be responsible for technical writing and editing associated with the approved technology tasks, related investigations and analyses, and flight test

evaluations. The contractor shall document information generated under this effort that relates to: concept development, specifications, interface development and control, designs, plans, procedures, and processes, tests, operations, or other stipulated SOW activity. The contractor shall use appropriate techniques in the development of documents, specifications, plans, procedures, drawings, test data, operating instructions, electrical and electronic schematics, and reference data. The contractor shall be responsible to review and edit all types of technical manuals, reports, and documentation for accuracy, literacy, and technical content. The contractor shall deliver documentation in the COR-specified formats. Using the guidelines provided by the COR, the contractor shall provide technical data packages and conference minutes that document the design and developmental efforts. (CDRL A003, A004, A005, A006, A007)

### **3.12 Media and Graphics**

The Contractor shall obtain, store, maintain, and reproduce technical data as appropriate to fulfill the other SOW requirements. The Contractor shall develop and provide technical orientation briefings and documentation (black/white and color) in the form of graphics transparencies and slides (8"x10" view graph format), posterboard charts, and multi-media videos. The contractor shall consolidate and prepare submissions from Government and other sources in NRL specified formats. The contractor shall provide publication and editing services including graphics, multimedia and SGML/HTML documents, video scripting, all-digital video for engineering presentations, document preparation, technical editing, and reproduction. The Contractor shall issue and maintain a current project catalogue of common graphical elements, and shall make all such graphics available to project personnel through various communications channels. The Contractor shall prepare briefing materials for use in presentations to NRL and Sponsor management and for other conferences, program, or review meetings. The Contractor shall provide logistical support for various meetings, reviews, and conferences. (CDRL A004)

### **3.13 Project Analysis, Reporting, and Support**

The contractor shall provide technical project analysis and support. The contractor shall review and assess technical project elements and mechanisms, work breakdown structures, project forecasting methods, planning and budget models, project schedule and related tracking mechanisms (i.e. network charts), coordination of project assets, and logistical support. (CDRL A003, A006, A007)

#### **4. Personnel Requirements**

The contractor shall provide the personnel specified in Enclosure No. 1.

## 5. Acronyms

A list of acronyms and meanings are provided below:

AGE	Aerospace Ground Equipment	LACE	Low Power Atmospheric Compensation Experiment
ATD	Advanced Technology Demonstration	LAN	Local Area Network
ATM	Asynchronous Transfer Mode	LCC	Launch Control Center
BiaTECH	Breakout Information Age Technology	MAGE	Mechanical AGE
BMDO	Ballistic Missile Defense Organization	MPTB	Microelectronics Photonics Test Bed
BOE	Basis Of Estimate	NASA	National Aeronautics and Space Administration
BP	Blossom Point	NCST	Naval Center For Space Technology
C <sup>4</sup> I	Command, Control, Communications, and Intelligence	NRL	Naval Research Laboratory
CALS	Computer Aided Logistics System	ODC	Other Direct Costs
CDR	Critical Design Review	PC	Personal Computer
CDRL	Contract Data Requirements List	PDR	Preliminary Design Review
COR	Contracting Officer's Representative	QRC	Quick Reaction Capability
COTS	Commercial Off-The-Shelf	R&D	Research and Development
CPM	Critical Path Method	RDT&E	Research, Development, Test, and Evaluation
CWBS	Contract Work Breakdown Structure	SCSI	Small Computer Systems Interface
DMSP	Defense Meteorological Satellite Program	SGML	Standard General Markup Language
DMSP	Defense Meteorological Support Program	SOW	Statement Of Work
DoD	Department Of Defense	SSULI	Special Sensor Ultraviolet Limb Imager
DPPH	Direct Productive Person Hours	TBD	To Be Determined
DSPSE	Deep Space Program Science Experiment	TDM	Technical Direction Memorandums
EAGE	Electrical AGE	TIPS	Tether Physics and Survivability Experiment
FPGA	Field Programmable Gate Array	UAV	Unmanned Aerial Vehicle
G&A	General and Administrative	WAN	Wide Area Network
GFE	Government Furnished Equipment	WBS	Work Breakdown Structures
GSE	Ground Support Equipment		
HRST	Hyperspectral Remote Sensing Technology		
HTML	Hypertext Markup Language		
ICD	Interface Control Documents		
ICE	Independent Cost Estimates		
ICM	Interim Control Module		
IDM	Improved Data Modem		

## **ENCLOSURE 1 OF ATTACHMENT 1 - PERSONNEL QUALIFICATIONS**

Key personnel are indicated below:

### **Sr. Program Manager [Key Personnel]**

The minimum qualifications include at least eight years experience in the area of program management or project leadership including at least five years as a program manager on projects involving NRL spaceflight systems or substantially equal satellite systems. At least four of the years of experience must be related to elements of the SOW. Minimum requirements shall include a Bachelor degree; a higher degree is desirable.

The candidate shall have demonstrated management experience in the definition, design, and development of aerospace systems. The position requires a thorough understanding of the DoD acquisition process, and technical program planning required to support the systems engineering management plan, including: risk analysis, engineering program integration, program reviews, technical performance measurement, interface control, documentation control, and planning for technical and program management tasks.

### **Principal Scientist, Theoretical/Experimental Physics [Key Personnel]**

The minimum qualifications include at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience must be related to elements of the SOW. Minimum requirements shall include a Ph.D. in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate shall have demonstrated experience, knowledge, and familiarity with specific experience with the specification, analysis, test, and integration of advanced lightweight optical sensors for spaceflight applications, including the reduction and analysis of post-flight image data.

### **Sr. Systems Engineer, Communications [Key Personnel]**

The minimum qualifications include at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience must be related to elements of the

SOW. Minimum requirements shall include a Ph.D. in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have demonstrated experience, knowledge, and familiarity with: the planning and execution of hardware and software development programs for spaceflight communications using Reduced Instruction Set Computing (RISC) processors, advanced compression algorithms and their related space-qualified chipsets, and design of ground image processors and displays. The candidate shall have demonstrated knowledge of the C++ and Ada software languages, digital data links, and the concepts, protocols, and implementation of a multi-tier system providing intelligence, surveillance, and Command, Control, and Communications(C<sup>3</sup>) over multi-gigabit data links. The candidate shall have a demonstrated knowledge of asynchronous transfer mode (ATM) with the expertise and capability to specify and develop ATM protocols for use in terrestrial communications systems.

#### **Sr. Systems Engineer, Software [Key Personnel]**

The candidate shall have minimum qualifications that include at least five years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. Minimum requirements include Master's degree in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate shall have demonstrated experience, knowledge, and familiarity with: the planning, execution, and documentation of software development programs. The candidate shall have demonstrated capability to perform the systems analysis, simulation, algorithm design, and system evaluation required to design and implement complex realtime software systems using assembly, C, FORTRAN, and C++ programming languages. The candidate shall have a demonstrated knowledge of ATM with the expertise and capability to specify and develop ATM protocols for use in terrestrial communications systems.

#### **Principal Scientist, Image and Signal Processing [Key Personnel]**

The minimum qualifications include at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience must be related to elements of the SOW. Minimum requirements shall include a Ph.D. in the technical areas of

Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems.

The candidate shall have demonstrated experience, knowledge, and familiarity with: the application of the principles, theories, and concepts in the field of image and signal processing for space systems and space experiments, coupled with a working knowledge of opto-mechanical sensors and related disciplines; demonstrated experience providing innovative solutions to a wide range of difficult software, algorithmic, calibration, and image processing problems for spaceflight instrumentation; demonstrated capability to design, implement, process, and archive very large image data sets in forms suitable for broad distribution to the scientific community; and experience with super resolution algorithms to improve the effective spatial resolution of staring imaging systems. The candidate shall have working knowledge for the development of mission planning and data analysis tools used in commercial image processing workstations, with a demonstrated capability to develop custom software for image processing, analysis, display, and archival.

#### **Systems Engineer, Terrestrial Systems [Key Personnel]**

The candidate shall have minimum qualifications that include at least eight years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. Minimum requirements include a Bachelor's degree in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate shall have demonstrated experience, knowledge, and familiarity with the analysis, research, design, development, test, and evaluation of complex digital hardware and software development programs, particularly as these developments relate to specific spaceflight and related terrestrial equipment developed by the NRL. The candidate must have demonstrated engineering experience related to the electrical analysis, design, integration, and test of digital processors, Application Specific Integrated Circuits (ASICs), field programmable gate arrays (FPGA), and their related development systems. The candidate shall have demonstrated capability with the i80486 processor and the DSP2100.

### **Sr. Systems Engineer, Guidance, Navigation, and Controls [Key Personnel]**

The minimum qualifications include at least eight years of directly applicable experience to conceptualize, analyze, solve, and accomplish the complex work required by the SOW. Four years of experience must be related to elements of the SOW. Minimum requirements shall include an M.Sc. in the technical areas of Aerospace Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems.

The candidate shall have demonstrated experience, knowledge, and familiarity with: developing mathematical and computer models of control theory to provide performance assessments of the attitude determination and control systems for spaceflight vehicles; demonstrated capability to analyze control systems and develop mathematical models, computer simulations, and spacecraft simulator software supporting stability analysis, parametric sensitivity, control loops, and system responses; and demonstrated capability and experience developing custom software for control system modeling and prediction of system responses, with specific experience in realtime software systems, including requirements analysis, development, and testing. The candidate shall have a demonstrated capability to interface and support the flight operations staff in attitude determination and control, control system configuration, and anomaly resolution.

### **Engineer, Digital Hardware or Software**

The candidate shall have minimum qualifications that include at least four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. Minimum requirements include a bachelor's degree in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate shall have a demonstrated understanding of: specifying, developing, and documenting a developmental test program; conducting systems level environmental and reliability tests; documenting acceptance tests in formal plans and procedures; and

planning and conducting tests and demonstrations in conjunction with an integrating contractor.

### **Engineer, General Design and Support**

The candidate shall have minimum qualifications that include at least four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. Minimum requirements include a bachelor's degree in the technical areas of Engineering, Physical Sciences, or Mathematics. The candidate shall have a demonstrated application of the principles, theories, and concepts in the complex work required by the SOW, particularly as it relates to advanced concept and prototype spacecraft systems, space and airborne systems, and launch systems. The candidate shall have a demonstrated understanding of: specifying, developing, and documenting a developmental test program; conducting systems level environmental and reliability tests; documenting acceptance tests in formal plans and procedures; and planning and conducting and demonstrations in conjunction with an integrating contractor.

### **Project Analyst**

The project analyst shall, as a minimum, possess a bachelor's degree and three years of experience in physical science, engineering, math, physics, or aerospace. Four years of experience must be related to elements of the SOW. The candidate shall have a demonstrated understanding of: specifying, developing, and documenting a developmental spaceflight test program; developing systems-level environmental and reliability test procedures; documenting acceptance tests in formal plans and procedures; and planning and conducting payload and launch tests and demonstrations in conjunction with an integrating contractor.

### **Technical Writer/Editor**

The candidate shall, as a minimum, possess a bachelor's degree in Engineering, Journalism, Economics, or English and four years of directly applicable experience to analyze, solve, and accomplish the complex work required by the SOW. The position requires proficiency with PC and Macintosh™ cross-platform word processing and spreadsheet programs (e.g., FRAMEMAKER™, WORD™, EXCEL™, FILEMAKER PRO™). The candidate shall have a demonstrated capability to coordinate, prepare, edit, and proof technical specifications, plans, procedures, and documents related to space and launch vehicle programs. The candidate shall have a working knowledge of the requirements for military technical manuals in a computer-aided logistics systems

(CALs) environment. The candidate shall have a demonstrated capability to collect, compile, and track technical data and comments thereto, to include the documentation and tracking of CDRLs.

### **Sr. Computer Graphics Artist**

The Senior Computer Graphics Artist shall, as a minimum, possess a bachelor's degree and have at least five years of directly applicable experience in the creation of original artwork for technical, scientific, and presentation purposes. The candidate must have demonstrated experience in the rendering of complex aerospace artwork that incorporates Macintosh™ applications programs that are available for technical drawing, drafting, rendering, and shading, e.g., ADOBE ILLUSTRATOR™ and PHOTOSHOP™, POWERPOINT™, CLARISDraw™ ALDUS FREEHAND™, MINI-CAD™, FETCH™, and FASTRACK™. The candidate must have experience, knowledge, and familiarity with the various computer file formats used to store and translate computer text and graphics files, including TIFF, EPS, and PICT. The candidate shall have experience in setting up large graphics, clip art, and presentation server files and maintaining those files for ready access by multiple graphics personnel. The candidate shall be familiar with the setup and operation of Macintosh related products, including scanners, SCSI drives, LANs, and other peripheral devices. The candidate shall possess working knowledge of digital, on-line non-linear video editing on a standard multi-media Macintosh™ platform.

### **Administrative, Clerical, and Graphics Support**

This category covers all candidates who support the assignments of the engineering and technical personnel. The candidate's duties include non-technical writing, word-processing, proofreading, general computer art, pasteups, database maintenance, and reference checking. The candidate generally requires some supervision and exercises limited judgment and/or discretion. The task requires a minimum of high school diploma with three years of experience. Candidates shall have experience with standard PC and Macintosh™ cross-platform applications software, e.g., WORD™, EXCEL™, FILEMAKER PRO™.

## Estimated Travel Costs

Travel to Boston, MA - three (3) people; two (2) trips

Airfare	\$500/trip x 3 people x 2 trips	3,000
Per diem	\$158/day x 2 days x 3 people x 2 trips	2,400
Car rental	\$50/day x 2 days x 3 people x 2 trips	600
		<hr/>
		6,000

Travel to Orlando, FL - two (2) people; three (3) trips

Airfare	\$500/trip x 2 people x 3 trips	3,000
Per diem	\$103/day x 10 days x 2 people x 3 trips	9,000
Car rental	\$50/day x 10 days x 2 people x 3 trips	3,000
		<hr/>
		15,000

Travel to Chicago, IL - three (3) people; two (2) trips

Airfare	\$500/trip x 3 people x 2 trips	3,000
Per diem	\$161/day x 2 days x 3 people x 2 trips	2,400
Car rental	\$50/day x 2 days x 3 people x 2 trips	600
		<hr/>
		6,000

Travel to L.A., CA - two (2) people; three (3) trips

Airfare	\$1,000/trip x 2 people x 3 trips	6,000
Per diem	\$139/day x 10 days x 2 people x 3 trips	12,000
Car rental	\$50/day x 10 days x 2 people x 3 trips	3,000
		<hr/>
		21,000

Travel to Rome, Italy - two (2) people; one (1) trip

Airfare	\$2,000/trip x 2 people	4,000
Per diem	\$218/day x 7 days x 2 people	3,052
Car rental	\$50/day x 10 days x 2 people	1,000
		<hr/>
		8,052

Travel to Frankfurt, Germany - two (2) people; one (1) trip

Airfare	\$2,000/trip x 2 people	4,000
Per diem	\$211/day x 7 days x 2 people	2,954
Car rental	\$50/day x 10 days x 2 people	3,000
		<hr/>
		9,954

Travel to Paris, France - two (2) people; one (1) trip

Airfare	\$2,000/trip x 2 people	4,000
Per diem	\$225/day x 7 days x 2 people	3,150
Car rental	\$50/day x 10 days x 2 people	3,000
		<hr/>
		10,150
		76,156

TRAVEL WILL BE ESTIMATED AT \$75,000 PER YEAR FOR PROPOSAL PURPOSES.

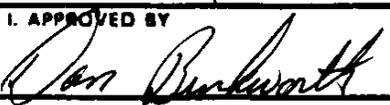
## ESTIMATED MATERIAL AND OTHER DIRECT COST

	Estimated Annual Cost	Total Cost
Materials, Parts, Spares, Replacements	\$300,000	\$1,500,000
Rentals and Services	30,000	150,000
Training	10,000	50,000
Misc.	10,000	50,000
Total	\$350,000	\$1,750,000

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

The 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 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.

A. CONTRACT LINE ITEM NO.		B. EXH/ATCH NO.		C. CATEGORY:		
0002		A		TOP TM OTHER		
D. SYSTEM/ITEM			E. CONTRACT/PR NO.		F. CONTRACTOR	
Technical Contract					TBD	
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE		
A001	Progress Status and Mgmt Report			N/A		
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A					COR	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION	
NO	N/A	Monthly	As Req'd By COR			
8. APP CODE	9. DIST STATEMENT REQUIRED	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	
N		TBD				
16. REMARKS					b. COPIES	
Contractor format, as approved by the COR					COR	
See Continuation Sheet					Draft Reg Repr	
					0 1 0	
15. TOTAL					0 1 0	
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE		
A002	Funds and Labor Hours Expenditure Rep			N/A		
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A					COR	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION	
NO	N/A	Monthly	As Req'd By COR			
8. APP CODE	9. DIST STATEMENT REQUIRED	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	
N		TBD				
16. REMARKS					b. COPIES	
Contractor format, as approved by the COR					COR	
					Draft Reg Repr	
					0 1 0	
15. TOTAL					0 1 0	
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE		
A003	Technical Reports			N/A		
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A			SOW 3.1 - 3.11, 3.13		COR	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION	
NO	N/A	ONE/R	As Req'd By COR			
8. APP CODE	9. DIST STATEMENT REQUIRED	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	
N		TBD				
16. REMARKS					b. COPIES	
					COR	
					Draft Reg Repr	
					0 1 0	
15. TOTAL					0 1 0	
1. DATA ITEM NO.	2. TITLE OF DATA ITEM			3. SUBTITLE		
A004	Presentation and Briefing Materials			N/A		
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A			SOW 3.11, 3.12		COR	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION	
NO	N/A	ONE/R	As Req'd By COR			
8. APP CODE	9. DIST STATEMENT REQUIRED	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	
N		TBD				
16. REMARKS					b. COPIES	
					COR	
					Draft Reg Repr	
					0 1 0	
15. TOTAL					0 1 0	
G. PREPARED BY		H. DATE		I. APPROVED BY		
						
				J. DATE		
				3/19/98		

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

The 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 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.

A. CONTRACT LINE ITEM NO.		B. EXH/ATCH NO.		C. CATEGORY:	
0002		A		TOP FM OTHER	
D. SYSTEM/ITEM			E. CONTRACT/PR NO.		F. CONTRACTOR
Technical Contract					TBD
1. DATA ITEM NO.	2. TITLE OF DATA ITEM		3. SUBTITLE		
A005	Conference Minutes		N/A		
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A		SOW 3.11		COR	
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION
NO	N/A	ONE/R	As Req'd By COR		
8. APP CODE	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE
N		TBD			
16. REMARKS					
See Continuation Sheet					
15. TOTAL		→		0	1 0
1. DATA ITEM NO.	2. TITLE OF DATA ITEM		3. SUBTITLE		
A006	Integration, Test & Eval Plans and Proc		N/A		
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A		SOW 3.1 - 3.11, 3.13		COR	
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION
NO	N/A	ONE/R	As Req'd By COR		
8. APP CODE	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE
N		TBD			
16. REMARKS					
15. TOTAL		→		0	1 0
1. DATA ITEM NO.	2. TITLE OF DATA ITEM		3. SUBTITLE		
A007	Dev Spec, Interface Control Doc & Mgmt Plan		N/A		
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A		SOW 3.1 3.11, 3.13		COR	
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION
NO	N/A	ONE/R	As Req'd By COR		
8. APP CODE	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE
N		TBD			
16. REMARKS					
15. TOTAL		→		0	1 0
1. DATA ITEM NO.	2. TITLE OF DATA ITEM		3. SUBTITLE		
A008	Contract Final Report		N/A		
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE		6. REQUIRING OFFICE	
N/A				COR	
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION
NO	N/A	O/Time	As Req'd By COR		
8. APP CODE	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE
N		TBD			
16. REMARKS					
Contractor format, as approved by the COR					
15. TOTAL		→		0	1 0
G. PREPARED BY		H. DATE	I. APPROVED BY		J. DATE
					3/19/98

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

## CDRL CONTINUATION SHEET

<u>CLIN</u>	<u>Description</u>	<u>PARA.</u>	<u>Frequency</u>	<u>Format</u>
A001	Progress Status and Management Report	3.9, 3.10	MNTHLY	Provide progress and status of all work tasked under this effort, including procurements; report shall provide this period status, plans for next period, and shall identify any potential problems or areas of concern; shall be in contractor's format
A002	Funds and Labor Hours Expenditure Report	3.10	MNTHLY	As required by Technical Directive Memorandum in Contractor's Format
A003	Technical Report(s)	3.1, 3.2, 3.3, 3.4, 3.5 3.6	ASREQ	Provide technical community with a description of the precise nature and results accomplished; shall be in contractor's format and prefaced with an executive summary
A004	Presentation and Briefing Materials	3.1, 3.5, 3.7 3.11	ASREQ	Provide technical community with the ideas and concepts being presented using graphic and textual elements
A005	Conference Minutes	3.7	ASREQ	Contractor's format
A006	Integration, Test and Evaluation Plans and Procedures	3.1, 3.3, 3.4, 3.8	ASREQ	As required by Technical Directive Memorandum and following guidelines of MIL-STD-490 and MIL-STD-1521
A007	Developmental Specifications, Interface Control Documents, and Management Plans	3.1, 3.2, 3.3	ASREQ	As required by Technical Directive Memorandum and following guidelines of MIL-STD-490 and MIL-STD-1521
A008	Contract Final Report	3.10	O/TIME	Contractor's Format

**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	N00173	1	1
Code: 4555 Overlook Ave., S.W. Washington, DC 20375-5320			
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

<b>DEPARTMENT OF DEFENSE</b>				<b>1. CLEARANCE AND SAFEGUARDING</b> SER: 124-97	
<b>CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b>				a. FACILITY CLEARANCE REQUIRED	
<i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				SECRET	
				b. LEVEL OF SAFEGUARDING REQUIRED	
				SECRET	
<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) 971117
b. SUBCONTRACT NUMBER				b. REVISED (Supersedes all previous specs)	Revision No. Date (YYMMDD)
c. SOLICITATION OR OTHER NUMBER	Due Date (YYMMDD)			c. FINAL (Complete Item 5 in all cases)	Date (YYMMDD)
X	80-0031-98				
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.					
<b>5. IS THIS A FINAL DD FORM 254?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the identified classified material is authorized for the period of _____					
<b>6. CONTRACTOR</b> (Include Commercial and Government Entity (CAGE) Code)					
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>					
SPACECRAFT AND AIRBORNE SYSTEMS DEVELOPMENT TASKS					
<b>10. THIS CONTRACT WILL REQUIRE ACCESS TO:</b>		YES	NO	<b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b>	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		X		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	X
b. RESTRICTED DATA			X	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION			X	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	X
d. FORMERLY RESTRICTED DATA			X	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	X
e. INTELLIGENCE INFORMATION:				e. PERFORM SERVICES ONLY	X
(1) Sensitive Compartmented Information (SCI)			X	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	X
(2) Non-SCI			X	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	X
f. SPECIAL ACCESS INFORMATION			X	h. REQUIRE A COMSEC ACCOUNT	*X
g. NATO INFORMATION			X	i. HAVE TEMPEST REQUIREMENTS	X
h. FOREIGN GOVERNMENT INFORMATION			X	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	X
i. LIMITED DISSEMINATION INFORMATION			X	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	X
j. FOR OFFICIAL USE ONLY INFORMATION			X	l. OTHER (Specify) *SECURE VOICE CAPABILITY	
k. OTHER (Specify) Any ADP/WP equipment used to process classified info must be approved by DIS for such purpose.		X			

**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 8130.10.

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

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

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

**14. ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. (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.

a. TYPED NAME OF CERTIFYING OFFICIAL TINA SMALLWOOD	b. TITLE Contracting Officer, Security	c. TELEPHONE (Include Area Code) (202)767-2240/2521
d. ADDRESS (Include Zip Code) Naval Research Laboratory Washington, DC 20375-5320	<b>17. REQUIRED DISTRIBUTION</b> <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, 1221.4, 8130.1, 8102	
e. SIGNATURE 