

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING <b>DO-S10</b>	PAGE OF <b>1   30</b> PAGES
2. CONTRACT NO.	3. SOLICITATION NO. <b>N00173-03-R-RS02</b>	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED <b>04 JUN 2003</b>	6. REQUISITION/PURCHASE NO. <b>76-0256-03</b>
7. ISSUED BY Procuring Contracting Officer, Code 3235:RDS Naval Research Laboratory - SSC Department of the Navy Stennis Space Center, MS 39529-5004		CODE <b>N68462</b>		8. ADDRESS OFFER TO (If other than Item 7)	

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

**SOLICITATION**

9. Sealed offers in original and 5 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. 1007, Room 45, SSC, MS 39529-5004 until 3:30 local time 07 JUL 2003  
(Hour) (Date)

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

10. FOR INFORMATION CALL:	A. NAME <b>Richard D. Sewell</b>	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <b>(2280 688-4571)</b>
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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)	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	%	%	%	%
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
15B. TELEPHONE NO. (Include area code)	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.		17. SIGNATURE
18. OFFER DATE			

**AWARD (To be completed by Government)**

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	
<input type="checkbox"/> 10 U.S.C. 2304(c) ( ) <input type="checkbox"/> 41 U.S.C. 253(c) ( )		ITEM	
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE	
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA	
		(Signature of Contracting Officer)	
		28. AWARD DATE	

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

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

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

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall provide the necessary personnel, equipment and facilities to accomplish the work as described in Section C.	\$	\$	\$
0002	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and Attachment (1)		* NSP	* NSP
<b>TOTAL ESTIMATED COST FIXED FEE:</b>		\$	\$	\$

\* *Not Separately Priced*

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

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

**C-1 STATEMENT OF WORK**

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

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

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

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

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

**SECTION E  
INSPECTION AND ACCEPTANCE**

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

**FAR CLAUSE    TITLE**

52.246-8       -    Inspection Of Research And Development - Cost Reimbursement (MAR 2001)

**DFARS CLAUSE    TITLE**

252.246-7000   -    Material Inspection And Receiving Report (MAR 2003)

**E-2 INSPECTION AND ACCEPTANCE**

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

**SECTION F  
DELIVERIES OR PERFORMANCE**

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

**FAR CLAUSE    TITLE**

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

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

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

(a) The term of this contract shall be a period of twelve (12) months from the date of contract award. The period of performance for each subsequent option, if exercised, shall be for an additional twelve (12) month period.

(b) The principal place of performance of this contract shall be \*  
(\* To be filled in at time of award)

(The Government anticipates that 90% of the required effort will be performed at NRL and 10% of the required effort will be performed at the Contractor's site.)

**SECTION G**  
**CONTRACT ADMINISTRATION DATA**

**G-1 PROCURING OFFICE REPRESENTATIVE**

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

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

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

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

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

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

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

( \* To be completed at time of award)

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

- (a) For the purposes of this clause, technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
  - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
- (1) Assign additional work under the contract;
  - (2) Direct a change as defined in the contract clause entitled "Changes";

- (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
- (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
  - (1) Date of TDM,
  - (2) Contract Number,
  - (3) Reference to the relevant portion or item in the Statement of Work,
  - (4) The specific technical direction or clarification, and
  - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.
- (g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

**G-4 CONTRACTOR-ACQUIRED PROPERTY**

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

Items to be Acquired

Estimated Cost

\*

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

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

**G-5 SUBCONTRACTORS/CONSULTANTS**

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

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

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

**G-6 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992))**

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

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

*(To be completed at time of award)*

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

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

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

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

(e) A DD Form 250, "Material Inspection and Receiving Report",

- is required with each invoice submittal.
- is required only with the final invoice.
- is not required.

(f) A Certificate of Performance

- shall be provided with each invoice submittal.  
 is not required.

(g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.

(h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

### **G-7 INCREMENTAL FUNDING**

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

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

### **G-8 INFORMATIONAL SUBLINE ITEMS**

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

### **G-9 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

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

**SECTION H  
SPECIAL CONTRACT REQUIREMENTS**

**H-1 TYPE OF CONTRACT**

This is a \*

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

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

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

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

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

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

The following are identified as key personnel: \*

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

Labor Category	First/M/Last Name

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

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 152,000 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the

proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 2533.33 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

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

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

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

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

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

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

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

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

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

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

as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort is as follows:  
(For proposal and informational purposes only: The Offeror may assume that the estimated number of hours is equally distributed to each of the base and option years.)

<u>Labor Category</u>	<u>Total Hours</u>
Research Scientist	9,500
Senior Scientist	9,500
Senior Engineer	9,500
Ground and Data Systems Engineer	9,500
Senior Electrical Engineer	19,000
Sr. Database Administrator/Programmer Analyst	9,500
Electrical Engineer	19,000
Operations Engineer	9,500
Data Technician	9,500
Electronic Technician	9,500
Senior Software Engineer	9,500
Senior Analyst	9,500
Senior Research Scientist	9,500
System Administrator	9,500

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

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

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

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

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

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

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four (4) times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

**First Option**

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

**Second Option**

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

**Third Option**

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

**Fourth Option**

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

**H-7 ON-SITE USE OF GOVERNMENT PROPERTY**

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory

(NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

**H-8 GOVERNMENT-FURNISHED PROPERTY**

The following Government property will be furnished to the contractor on a rent-free basis for use in performing the contract:

*(To be completed at time of award)*

**H-9 REPRESENTATIONS AND CERTIFICATIONS**

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

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

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

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

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

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

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

<b>FAR CLAUSE</b>	<b>TITLE</b>
52.202-1	- Definitions (DEC 2001)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52-203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)
52.204-2	- Security Requirements (AUG 1996)
52.204-4	- Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	- Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	- Audit And Records-Negotiation (JUN 1999)
52.215-2	- Audit And Records-Negotiation (JUN 1999) - Alternate II (APR 1998)
52.215-8	- Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-14	- Integrity Of Unit Prices (OCT 1997)
52.215-15	- Pension Adjustments And Asset Reversions (DEC 1998)
52.215-17	- Waiver Of Facilities Capital Cost Of Money (OCT 1997) ( <i>will be included if the successful offeror does not propose facilities capital cost of money</i> )
52.215-18	- Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)
52.215-19	- Notification Of Ownership Changes (OCT 1997)
52.215-21	- Requirements For Cost And Pricing Data Or Information Other Than Cost Or Pricing Data - Modifications (OCT 1997) - Alternate IV (OCT 1997)
52.216-7	- Allowable Cost And Payment (DEC 2002) (fill in <u>30th</u> )
52.216-8	- Fixed-Fee (MAR 1997)

- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999)  Offeror elects to waive the evaluation preference.
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUL 1996)
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-4 - Contract Work Hours And Safety Standards Act-Overtime Compensation (SEP 2000)
- 52.222-19 - Child Labor – Cooperation With Authorities And Remedies (SEP 2002)
- 52.222-20 - Walsh-Healey Public Contracts Act (DEC 1996)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-8 - Duty-Free Entry (FEB 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
(will be included if the successful offeror is a small business or a non-profit organization)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)

- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984) fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items And Commercial Components (APR 2003)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
  
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)( fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

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

<u>DFARS CLAUSE</u>	<u>TITLE</u>
252.201-7000	- Contracting Officer's Representative (DEC 1991)
252.203-7001	- Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
252.203-7002	- Display Of DoD Hotline Poster (DEC 1991)
252.204-7000	- Disclosure Of Information (DEC 1991)
252.204-7003	- Control Of Government Personnel Work Product (APR 1992)
252.204-7004	- Required Central Contractor Registration (NOV 2001)
252.204-7005	- Oral Attestation Of Security Responsibilities (NOV 2001)
252.205-7000	- Provision Of Information To Cooperative Agreement Holders (DEC 1991)
252.209-7000	- Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
252.209-7004	- Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
252.223-7004	- 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 (APR 2003)
252.225-7002	- Qualifying Country Sources As Subcontractors (APR 2003)
252.225-7012	- Preference For Certain Domestic Commodities (FEB 2003)
252.225-7016	- Restriction On Acquisition Of Ball And Roller Bearings (APR 2003)
252.225-7021	- Trade Agreements (APR 2003)

- 252.225-7025 - Restriction On Acquisition Of Forgings (APR 2003)
- 252.225-7031 - Secondary Arab Boycott Of Israel (APR 2003)
- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7026 - Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
- 252.227-7027 - Deferred Ordering Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7003 - Electronic Submission Of Payment Requests (MAR 2003)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)  
*(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)*
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

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

(a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

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

WARNING

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

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

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

<b>J-1</b>	<b>Attachment (1) - Statement Of Work:</b>	<b>Pages 4</b>
<b>J-2</b>	<b>Attachment (2) - Workforce Qualifications and Experience</b>	<b>Pages 5</b>
<b>J-3</b>	<b>Exhibit A - DD Form 1423, Contract Data Requirements:</b>	<b>Pages 6</b>
<b>J-4</b>	<b>Attachment 4 - Contract Security Classification Specification</b>	<b>Pages 2</b>
<b>J-5</b>	<b>Attachment 5 – Accounting and Appropriation Data</b>	<b>Pages 1</b>

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

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

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/reprs&certs.htm>

Use Representations and Certifications: A

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

The fill in information is as follows:

The NAICS code for this acquisition is: 541710

The small business size standard is. 500 people.

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

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

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

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

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

**FAR CLAUSE TITLE**

52.204-6	-	Data Universal Numbering System (DUNS) Number (JUNE 1999)
52.214-34	-	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 (MAY 2001)
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)
52.222-24	-	Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
52.237-10	-	Identification Of Uncompensated Overtime (OCT 1997)

**DFAR CLAUSE TITLE**

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

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

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

Contracting Officer, ATTN: Code 3235  
Naval Research Laboratory – SSC (NRL-SSC)  
Building 1007, Room 45  
Stennis Space Center, MS 39529-5004

Solicitation/RFP No.: N00173-03-R-RS02

Closing Date: 07 JULY 2003

Time 3:30 Local Time

Proposals may be hand delivered to the Contracting Office, NRL-SSC, Building 1007, Room 45, Stennis Space Center, MS 39529-5004 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL-SSC is a controlled-access facility. Photo identification will be required. Report first to Visitor Control at the South Gate for access to NRL. After receiving a Visitor Pass, proceed directly to Building 1007 and contact extension 8-4571 or 8-5784 for access to the

building. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office

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

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

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

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below . The Offeror shall provide information as required in Section L.14.

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

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

**L-6 FAR 52.222-18 - CERTIFICATION REGARDING KNOWLEDGE OF CHILD LABOR FOR LISTED END PRODUCTS (FEB 2001)**

The fill-in information is as follows:

Listed End Product	Listed Countries of Origin

**L-7 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-8 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)**

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

- (1) If a successful offeror will be required to deliver technical data, the Rights in Technical

Data--Noncommercial Items clause; or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

- (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

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

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

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

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

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

- \*\*\* Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).
- \*\*\*\* Corporation, individual, or other person, as appropriate.
- \*\*\*\*\* Enter "none" when all data or software will be submitted without restrictions.

Date \_\_\_\_\_

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

Signature \_\_\_\_\_

(End of identification and assertion)

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

**L-9 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-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 PROPOSAL ORGANIZATION**

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

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

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

REQUIRED COPIES: 1 ORIGINAL AND FIVE (5) COPIES .

**L.13.: GENERAL PROPOSAL CONTENT:**

Offerors shall furnish an original and five copies of a TECHNICAL PROPOSAL with sufficient detail to show compliance with the requirements stated in each subparagraph of Section C of this solicitation. Specific cost or pricing details shall be omitted from the Technical Proposal.

The technical proposal shall include any drawings, including schematic drawings, which will enable independent technical evaluation of the proposal.

The technical proposal shall clearly and concisely identify and discuss the Offeror's technical and managerial qualifications and approaches to accomplishing the requirements outlined in Section C.

The technical proposal shall be subdivided into a "Proposal Summary" section, a "Workforce Qualifications and Experience" section, a "Technical Approach" section, a "Corporate Resources and Organizational Capabilities" section, and a "Corporate Past Performance Information" section in that order.

The technical proposal shall also contain responses to each of the individual requirements listed in Attachment 1, Attachment 2, and Attachment 3. Each response shall furnish the Government with sufficient detail to enable the technical evaluation panel to independently evaluate each response against the respective Government requirement as stated in Section C and Section M.

**L.13.A PROPOSAL SUMMARY**

The proposal summary is an unevaluated requirement. The Offeror shall provide a concise summary, exclusive of cost information, of its proposal. This summary should be complete, stand on its own, and provide executive level reviewers with an understanding of the content of the proposal. The summary should summarize the highlights, plans and qualifications contained in the body of the technical proposal.

**L.13.B WORK FORCE QUALIFICATION AND EXPERIENCE**

The Offeror shall document the experience, education, and other qualifications of all personnel proposed to accomplish the technical requirements stated in Section C of this solicitation. As a minimum, the Offeror shall provide the following information for each proposed individual: (a) name of proposed individual; (b) proposed labor category, as designated in Attachment 2; (c) proposed Task areas of involvement, as identified in Attachment 1; (d) educational qualifications; (e) technical or managerial qualifications and experience as they relate to the Statement of Work and the requirements in Attachment 2; (f) length of experience; and (g) previous work history. Key Personnel shall be identified as such.

In addition to the requirements stated above, the Offeror shall (a) describe their plan to retain key personnel throughout the term of any resulting contract, (b) demonstrate their ability to attract additional trained personnel, and (c) describe their strategy for and ability to respond to surges in effort.

### **L.13.C MANAGERIAL APPROACH**

Pursuant to this requirement, the Offeror shall provide a managerial plan to demonstrate its capability to efficiently, effectively and economically plan, organize, manage, coordinate and control the work effort required under this solicitation. The Offeror's managerial plan shall address its approach for tracking milestones, costs, subcontractor efforts (if applicable) and deliverables. The Offeror's managerial plan shall also address its proposed internal procedures for assuring timely responses to the Government's research needs on any resulting contract.

### **L.13.D CORPORATE RESOURCES AND ORGANIZATIONAL CAPABILITIES**

The Offeror shall describe and document those resources which the firm will make available to this project, including, but not limited to, (a) financial resources, (b) research, development and production facilities and equipment, and (c) any other technical resources offered to meet the Government's requirements as stated in Section C of this solicitation.

The Offeror shall document the firm's experience on similar or related projects through narrative descriptions of these experiences. Prior and current program experience should be identified in these narratives by citing contract numbers, contracting agencies or firms, the COR's name and telephone number, the applicable period of performance, and a summary of the nature of the work. The narratives should show the clear relationship of previous work to the requirements of this project.

The Offeror shall demonstrate its capacity to routinely and rapidly respond to the requirements stated in Attachment 1 to this solicitation by providing specific examples drawn from the previous five years of operations.

### **L.13.E CORPORATE PAST PERFORMANCE INFORMATION**

(i) 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 supplies or services similar in nature to this requirement. Include in

the five any current contract or subcontracts for similar supplies/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 of 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

(ii) 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://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.

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

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

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

**REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES**

The Offeror shall submit a Cost/Pricing Proposal, which shall include such explanatory data as is necessary to establish that proposed costs are reasonable, allocable, appropriate and allowable pursuant to both Part 31 of the Federal Acquisition Regulation (FAR) and Part 231 of the Defense Federal Acquisition Regulation Supplement (DFARS). More specifically, the Cost/Pricing proposals shall provide the following information:

- (a) (i) Labor to include categories of labor, individuals proposed within each category; hours proposed for each individual, and hourly rate for each individual;
- (ii) Indirect or Overhead Rate(s);
- (iii) Any Direct Materials proposed;
- (iv) Any Other Direct Costs proposed;
- (v) General and Administrative Rate(s);
- (vi) Facilities Capital Cost of Money Rate(s);

- (vii) Any other applicable rates;
- (viii) Other supporting costs;
- (ix) Fee

(b) Any information reasonably required to explain the Offeror's estimating process, including mathematical algorithms and judgmental factors used in formulating the estimate; and any contingency assumptions employed in arriving at the proposed price

(c) Consultants/Subcontractors: Offerors shall describe subcontracting arrangements proposed for completing the work required herein. Sub-Contractors shall be identified as well as the portion of the work to be subcontracted. Documents establishing a subcontracting relationship shall be submitted with the cost proposal. Offerors may arrange for proposed subcontractors to submit supporting cost data directly to the Government. Any such submission shall not be deemed to establish privity of contract between the Government and the proposed sub-contractor. With respect to Independent Contractors or Consultants, the Offeror shall document direct labor rates proposed by providing the Government with copies of either letters of intent or Consultant or Independent Contractor Agreements executed between the Offeror and the Independent Contractor. Offerors who intend to include subcontracted effort as part of their proposal are responsible for ensuring that complete information as described above is provided from each subcontractor as part of their response to this solicitation.

(d) Material and Travel: FOR PROPOSAL PURPOSES ONLY, Offerors shall use the following estimates ( with applicable indirect costs added to the estimate) for required material and travel costs. If subcontractors propose material or travel costs, these must also be burdened and that burden added to the estimates.

(i) The "Material" estimate of \$1,425,000.00 for the base year and \$425,000.00 for each of the four option years includes those directly associated items which are expected to be incorporated into end products or expended during performance and minor direct equipment expense.

(ii) The "Travel" estimate of \$100,000.00 for the base year and \$100,000.00 for each of the four option years included in the period of performance includes travel and subsistence for work at alternative sites, and for allowable local travel per the Joint Travel Regulations.

#### **L-15 MULTIPLE AWARDS**

The Contracting Officer may make multiple awards resulting from this solicitation.

## SECTION M EVALUATION FACTORS FOR AWARD

### M-1 EVALUATION

Award will be made to that responsible 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 received in response to this solicitation will be evaluated in accordance with the criteria stated in Sections L.13.B, L.13.C, L.13.D, and L.13.E, which together comprise the Technical Category; and Section L.14, which comprises the Cost/Pricing category.

#### M-2-1 – TECHNICAL CATEGORY

The technical evaluation will consider the Offeror's overall approach to, understanding of, and capability to adequately perform and provide the requirements listed in the Statement of Work, as reflected in the Offeror's responses to the evaluation criteria listed in Sections L.13.B, L.13.C, L.13.D, and L.13.E. Technical scores will be based on evaluative determinations of whether the Offeror's proposal meets, does not meet, or, as proposed, is more advantageous than the Government's minimum requirements. Pursuant to FAR 15.306(c), proposals which are found to contain unrealistic technical or schedule terms, which fail to comply with the requirements stated in this RFP, or which are found to be unrealistically high or low in cost/price, may be significantly downgraded or removed from further consideration. Areas within the Offeror's technical proposal which are found to offer unique or innovative technical solutions or effort beyond the Government's anticipations as stated in Attachment 1 may receive maximum technical scores.

Evaluated Components within the Technical area include "Workforce Qualifications and Experience", "Managerial Approach", "Corporate Resources and Organizational Capabilities" and "Corporate Past Performance Information". Within the Technical category, the component "Workforce Qualifications and Experience" is weighted significantly higher than the components "Managerial Approach", "Corporate Resources and Organizational Capabilities", and "Corporate Past Performance Information", all of which are weighted equally

Past Performance – Past performance will be evaluated on the basis of quality of work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Contract Section L.13.F and other sources, if available. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The Government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may

waive its evaluation in accordance with FAR 15.304(c)(3)(iii).

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

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon the findings of a cost realism analysis. Cost Realism means that the costs in an offeror's proposal represent the most-probable cost; are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes (a) an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates; (b) an analysis of costs proposed for travel, materials, consultants and subcontractors, facility capital cost of money, and fee; and (c) an evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

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

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

STATEMENT OF WORK  
FOR  
SPACE SCIENCE RESEARCH AND DEVELOPMENT

## **1. INTRODUCTION**

The Naval Research Laboratory (NRL) conducts a program of research and evaluation on: (a) the distribution and characteristics of background terrestrial and extraterrestrial sources of radio and infrared radiation, and related areas of atmospheric science, (b) solar physics, upper air physics, radio propagation, infrared transmission, infrared detectors, and related electronics and cryogenic techniques, and (c) investigation of new applications in areas of interest to the Navy, such as precise time, position determination, remote sensing, and surveillance. The techniques employed in these investigations are ground based, airborne, and/or space. Results of this research are of importance to radio communications, to the operation of ships and aircraft, to utilization of the space environment, and to fundamental understanding of natural radiation and geophysical phenomena.

In order to carry out these investigations, research and development effort is needed for (a) the design, fabrication, assembly, and testing of experimental equipment, (b) support of field operations and deployment of experimental packages, (c) satellite design, (d) computer modeling experiment design, (e) data analysis instrument packaging, and (f) payload testing. In addition, because the amount of raw data obtained from these investigations is massive in volume, the data must be processed, reduced and analyzed in a timely manner. To support this requirement, new computer programs are required, existing programs (software) must be modified and documented, or both.

## **2. SCOPE**

The purpose of this contract is to acquire R&D expertise for the design, fabrication, assembly, test, and analysis of NRL projects. The required work shall, as a minimum, include: (a) creation and documentation of software, and (b) the design, fabrication, assembly, integration, testing and operation of sophisticated scientific instruments and experimental payloads. Both on-site and off-site effort will be required. Scientific publications resulting from the research activities are anticipated.

## **3.0 REQUIREMENTS**

### **3.1 The Solar Ultraviolet Spectral Irradiance Monitor (SUSIM) Aboard the Upper Atmosphere Research Satellite (UARS)**

The contractor shall plan, define in detail, and, with COR approval, schedule scientific operations for the SUSIM instrument aboard the UARS. The effort required under this task shall include, but may not be limited to: (a) developing long-range plans to maintain

the on-orbit calibration of the SUSIM instrument, (b) developing daily or as needed SUSIM instrument command loads, and (c) monitoring the health of the instrument and the scientific data. The contractor shall perform data reduction efforts on the raw data acquired from the SUSIM UARS, with the goal of producing scientifically useful SUSIM UV irradiance data sets that will be made available to the public both via the SUSIM WWW pages and through the Data Active Archive Center (DAAC) at Goddard Space Flight Center (GSFC). The contractor shall maintain the SUSIM WWW and FTP sites. The contractor shall perform scientific analyses of the SUSIM data, and shall provide the results of their analyses through both publication of scientific papers in refereed journals and presentations at national and international scientific meetings. All scientific papers and presentation materials shall be subject to COR review and approval prior to public release.

### **3.2 Remote Sensing**

For the purpose of this task, the Contractor shall (a) design, assemble, and calibrate radiometric equipment; (b) design digital control and RF signal processing circuits for incorporation into radiometric instruments; (c) consult with , and contribute to software program development and implementation; (d) contribute to field experiments by performing efforts associated with the installation of electronic equipment and the data retrieval process; and (e) contribute the general services listed above in support of the Airborne Polarimetric Microwave Imaging Radiometer (APMIR) program. Field experiments anticipated under this task will require the concerted efforts of the contractor with Navy and NASA personnel. The Contractor may be required to interface directly with such organizations;

The contractor shall support various satellite programs through efforts associated with space flight hardware, systems design, and calibration/validation efforts. The contractor shall perform functions associated with the Defense Meteorological Satellite Program (DMSP) by assisting in (a) the proper function of the system via radiometer calibration, (b) geo-location correction, (c) software processes, and (d) general imaging capabilities. The contractor shall also perform tasks associated with the SSM/I satellites and their data products. In addition, the contractor shall perform calibration, validation, and sensor health assessment tasks for the next generation of satellites, the SSMIS and WindSat.

The contractor shall perform general system maintenance efforts, network operations and system upgrade for Remote Sensing Group, and shall assist in design and expansion of the overall system architecture.

### **3.3 Space-based Coronagraphs and Imagers**

The contractor shall perform efforts associated with development and operation of the following experiments, which are now in various lifecycle stages: the Large Angle and Spectrometric Coronagraph (LASCO) and EUV Imaging Telescope (EIT) aboard the Solar Heliospheric Observatory (SOHO), the EUV Imaging Spectrometer (EIS) aboard Solar-B, the Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI) aboard the Solar Terrestrial Relations Observatory (STEREO), and the Solar

Heliospheric Activity Research and Prediction Program (SHARPP) experiment aboard the Solar Dynamics Observatory (SDO). The contractor shall develop software and systems for instrument development and eventual data reduction and analysis both before and after launch. The contractor shall (a) perform data reduction tasks for these experiments, (b) distribute data to co-investigators, and (c) maintain WWW pages. The anticipated results of the data reduction tasks will be the production of scientifically useful data sets. The contractor shall perform scientific analyses of these data, which may culminate in publication of the results in scientific journals and in presentations at national and international scientific meetings. All scientific papers and presentation materials shall be subject to COR review and approval prior to public release.

### **3.4 Experiments Flown on Sounding Rockets**

The contractor shall design, and, following COR review and approval, fabricate, assemble, align optics, develop and test software for flight controllers, and test high spectral resolution and/or high spatial resolution optical instruments to be flown on sounding rockets. The spectral domain to be observed will vary from instrument-to-instrument, ranging from the extreme ultraviolet to the near infrared.

### **3.5 Detector and Camera Systems**

The contractor shall test and evaluate electro-optical imaging devices. The contractor shall test equipment used to simulate solar radiation. The contractor shall both test systems for introducing reflected sunlight into vacuum test chambers, and test electro-optical focal plane array detectors (such as CCDs), photodiodes, and photomultipliers. The contractor shall characterize optical instruments, measuring such properties as spectral resolution, throughput, and MTF. The contractor shall precisely photometrically calibrate detector systems and measure stray light properties of telescopes.

### **3.6 Navy Prototype Optical Interferometer (NPOI)**

The contractor shall provide enhancements to NPOI's Digital Signal Processor (DSP) Fringe Engine system in order to obtain more science data. The contractor shall provide the following enhancements: (1) software revisions to make available other methods of collecting photon data; (2) modification of the DSP assembly code to increase the number of data points; (3) modification of the current Altera EPLD VME controller design to implement thirty-two bit and/or Block-Mode data transfers within the current hardware design; (4) an effort to increase the number from one to three spectrograph arrays; (5) fabrication, testing and installation of additional sets of Fringe Engine hardware; and (6) redesign of the Binner/Dither VMEbus assembly to receive thirty-two spectral channels.

### **3.7 General Laboratory Projects and Space Programs**

The contractor shall (a) design, fabricate, assemble, test, and maintain specialized laboratory equipment and facilities shared by the various projects and programs; (b) design, fabricate, assemble, and test prototype instrumentation and software for various space projects; (c) plan, define in detail, and schedule on-orbit operations of space instruments, and (d) develop and document software to scientifically analyze the data from space instruments that study the sun and heliosphere, the earth's atmosphere and magnetosphere, or stars. All designs and plans required under this task shall be submitted for COR review and approval prior to implementation.

### **4.0 PROJECT LEADER**

The Contractor shall designate a senior on-site employee to act as Project Leader. The Project Leader shall be the Contractor's authorized supervisor for technical and administrative performance of all work hereunder. The Project Leader shall provide the single point of contact between the Contractor and the Government's Contracting Officer's Representative (COR). All administrative support of technical personnel required to fulfill the work stated in the contract shall be the responsibility of the contractor. This will be a collateral duty for the person assigned.

### **5.0 REPORTS, DATA, AND OTHER DELIVERABLES**

The Contractor shall provide (a) Monthly Cost and Performance Reports, (b) Computer-Based Deliverables, (c) Technical Reports, Documentation and Deliverables, (d) Designs, Drawings and Schematics, (e) a Final Report, (f) Monthly Technical and Program Progress Reports, (g) Contractor On-Site Labor Reports, and (h) All Other Deliverables as required on Contract Exhibit A – DD Form 1423, Contract Data Requirements List.

## PERSONNEL REQUIREMENTS

Below are the manpower requirements by labor category. Estimated total hours per labor category may be found at Contract Section H-3 – Level of Effort, which starts on Page 9 of this solicitation. All proposed personnel must be U.S. Citizens. All individuals must have the capability to obtain and maintain a SECRET clearance.

Research Scientist  
Senior Scientist  
Senior Engineer  
Ground and Data Systems Engineer  
Senior Electrical Engineer  
Sr. Database Administrator/Programmer Analyst  
Electrical Engineer  
Operations Engineer  
Data Technician  
Electronic Technician  
Senior Software Engineer  
Senior Analyst  
Senior Research Scientist  
System Administrator

**RESEARCH SCIENTIST** – The proposed Research Scientist shall, as a minimum possess a Ph.D. in physical science or mathematics or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of ten years experience in solar and astrophysical research. The proposed Research Scientist shall have demonstrated experience in the overall management of a operational space-based UV optical instrument, including (a) the development of science plans; (b) techniques of instrument operations and characterization; (c) reduction and the scientific interpretation of experimental results; and (d) specification, programming, and management of programming tasks by others. The proposed Research Scientist shall possess a minimum of five years of programming experience with IDL and Fortran, and shall also possess demonstrated ability to produce scientific papers in refereed scientific journals.

**SENIOR SCIENTIST** – The proposed Senior Scientist shall, as a minimum, possess a M.S. in physical science or mathematics (a Ph.D. is desired) or the equivalent as identified in the OPM Qualification Standards for General Schedule with a minimum of seven years experience in solar and astrophysics research. The proposed Senior Scientist shall possess demonstrated experience in analyzing and characterizing space-based EUV and visible solar imaging instruments. The proposed Senior Scientist shall, as a minimum, (a) possess ten years of experience in developing scientific analysis codes using the IDL programming language; (b) possess demonstrable skills in analyzing scientific and image time series (including Fourier) techniques; and (c) possess one year of experience in tomographic image reconstruction techniques and 3D visualization. The

proposed Senior Scientist shall demonstrate the ability to produce scientific experimental results suitable for publication in refereed scientific journals.

**SENIOR ENGINEER** – The proposed Senior Engineer shall, as a minimum, possess an M.S. in astronomy, or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of ten years experience in physical sciences. The proposed Senior Engineer shall possess demonstrated experience as a senior engineer for space-based embedded systems for scientific data acquisition. The proposed Senior Engineer shall possess demonstrable experience (a) with scientific CCD imaging for space use, including test procedures, CCD characteristics, CCD operations, and design of automated test software and camera electronics; (b) in writing spacecraft ground support software including telemetry, planning and operations; and (c) in administering a network of workstations to do data reduction and analysis of coronagraph image data including image decompression and image processing. The proposed Senior Engineer shall possess demonstrable experience on the latest computing techniques and software tools including Java, Tcl, Perl, SQL, HTML and C. The proposed Senior Engineer shall possess the ability to perform independent research and present publishable scientific results.

**SENIOR ELECTRICAL ENGINEER** – The proposed Senior Electrical Engineer shall, as a minimum, possess a B.S. in Electronic or Electrical Engineering, or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of seven years experience in Scientific VMEbus instrumentation and support hardware. The proposed Senior Electrical Engineer shall possess demonstrable experience (a) in mechanical and electrical design, fabrication, testing and installation of VMEbus assemblies for use in the Navy Prototype Optical Interferometer's (NPOI) distributed VMEbus control systems; (b) with the VMEBus specification, VMEBus board design and VMEBus system integration; (c) with digital design skills directly relating to the design of VMEbus circuit board assemblies; and (d) in analog design for designing, testing and debugging high speed and high voltage circuits. To directly support the NPOI, the proposed Senior Electrical Engineer shall possess demonstrable experience with OrCad schematic design software, Tango PCB design software, Altera Programmable Logic Design software, DSP Assembly and SPICE Simulation.

**SR. DATABASE ADMINISTRATOR/PROGRAMMER ANALYST** – The proposed Senior Database Administrator/Programmer Analyst shall, as a minimum, possess a M.S. in Computer Sciences, or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of five years experience in database administration/program analysis. The proposed Senior Database Administrator/Programmer Analyst shall possess demonstrable experience (a) in administering and developing software interfacing to relational databases (including Sybase) using SQL; (b) in reliably performing all data archive tasks including software updates, backups, data updates and database design; (c) with software tools, including HTML forms, PERL, SQL, IDL and C particularly the Sybase C client; and (d) in writing software to access databases and report generating software.

**ELECTRICAL ENGINEERS** – Proposed Electrical Engineers shall, as a minimum, possess a B.S., or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of five years of experience directly related to RF and microwave design. Proposed Electrical Engineers shall possess demonstrable experience (a) in mechanical and electrical design, fabrication, assembly, testing, packaging, and calibration geared towards radiometric instrumentation; (b) with data acquisition systems, computer control, and software for flow control, such as C++ and LabView; (c) with CAD for mechanical design; and (d) with measurement equipment, including network analyzer and spectrum analyzer. Experience with aircraft environment and flight specifications is desired of proposed Electrical Engineers.

**OPERATIONS ENGINEER** – The Proposed Operations Engineer shall, as a minimum, possess B.S. in engineering, or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of five years experience in space-based experiment operations management. The proposed Operations Engineer shall possess (a) a minimum of five years experience in managing the operations of a space-based UV optical instrument including interpretation of ephemeris projections, formulation of command loads and monitoring of instrument activities and status; and (b) a minimum of five years experience in IDL programming on VAX/VMS used for the evaluation and analysis of experimental data products.

**DATA TECHNICIAN** – The proposed Data Technician shall, as a minimum, possess a B.S. in engineering of physical sciences, or the equivalent as identified in the OPM Qualification Standards for General Schedule, with a minimum of two years experience with IDL and Unix. The proposed Data Technician shall possess demonstrable experience (a) with Unix workstations and PCs running Solaris or Windows 95/NT ; (b) with managing a data archive storing several terabytes of scientific data; (c) in operating and maintaining the data archive including the CDROM jukeboxes, PCS and RAID systems that make up the hardware of the archive; (d) with daily operations, operating and maintaining the data archive including reducing data, writing CD-R for the archive and fulfilling data requests; (e) with writing software to perform these tasks as Unix shell scripts, IDL routines and Perl, as required; and (f) in network systems administration.

**ELECTRONIC TECHNICIAN** – The proposed Electronic Technician shall, as a minimum, possess a High School degree with a minimum of three years electronic technology education. The proposed Electronic Technician shall (a) possess a minimum of ten years electronic development experience for space environment; (b) possess demonstrable experience in electronic design and testing of instruments for investigating space; (c) possess demonstrable experience in designing electronic circuits for space environment, and in testing and troubleshooting electronic circuits and components; and (d) shall possess demonstrable experience in coordinating and scheduling of electronic for inception to launch, including supervision of other team members to insure schedule requirements.

**GROUND AND DATA SYSTEMS ENGINEER** – The proposed Ground and Data Systems Engineer shall, as a minimum, possess a M.S. in physics, engineering or a space-related discipline, or equivalent, with at least 3 years of demonstrable experience with data processing and management of space-based imaging experiments. The proposed Ground and Data Systems Engineer shall possess (a) at least 1 year demonstrable experience in ground systems design for an imaging experiment and ground systems software; (b) demonstrable experience programming with IDL and C/C++; (c) demonstrable proficiency with Solaris, Linux, Windows operating systems; (d) demonstrable experience developing requirements for ground data systems, including data processing; (e) a working familiarity with solar science; and (f) demonstrable experience working in collaboration with solar scientists in obtaining relevant imaging data.

**SENIOR SOFTWARE ENGINEER** – The proposed Senior Software Engineer shall, as a minimum, possess a BS in Computer Science, or a related field, and 10 years of applicable experience. The proposed Senior Software Engineer shall demonstrate the ability to work on a broad range of software including real time embedded software and scientific computing. The proposed Senior Software Engineer shall possess (a) demonstrable experience with motor control, camera control and laboratory equipment for working on experiments aboard sounding rockets; and (b) demonstrable experience in Data analysis, data archiving, web services and visualization. The proposed Senior Software Engineer shall develop the NRL Solar Physics branch effort to use advanced scientific computing technologies including grid computing, cluster computing and 3-D visualization systems and software. The candidate shall work with the scientific staff and technical staff on branch-wide issues, and shall have demonstrable management skills.

**SENIOR RESEARCH SCIENTIST** – The proposed Senior Research Scientist shall, as a minimum, possess a BS in Mathematics, or a related field, and at least 10 years experience in calibration/validation techniques and analysis. The proposed Senior Research Scientist shall possess demonstrable experience (a) in analyzing satellite data to develop algorithms for water vapor, cloud liquid water, wind speed and direction; (b) in developing software to compare and analyze data; and (c) in Calibration/validation, to include proper functioning of the GDPS SDRP and EDRP software; radiometer calibration, detecting geo-location errors, evaluating TDR, SDR and EDR imagery.

**SENIOR ANALYST** – The proposed Senior Analyst shall, as a minimum, possess 10 years experience and demonstrable expert knowledge of calibration/validation techniques and data retrieval. The proposed Senior Analyst shall (a) maintain calibration/validation database for joint operational Navy and Air Force meteorological satellite program using data from the Special Sensor Microwave/Imager satellites; (b) process data employing DEC VAX/VMS systems as well as SUN SPARC station; and (c) perform calibration/validation, to include proper functioning of the GDPS SDRP and EDRP software; radiometer calibration, detecting geo-location errors, evaluating TDR, SDR and EDR imagery.

**SYSTEM ADMINISTRATOR** – The proposed System Administrator shall, as a minimum, possess 10 years of experience and technical training in Systems-Network Operations and Unix System Administration. The proposed System Administrator shall (a) possess demonstrable experience managing, installing, and maintaining UNIX systems as well as individual PCs; (b) be responsible for evaluating existing and proposed systems and recommending upgrades and/or modifications; (c) be responsible for effectively analyzing and evaluating hardware and software packages and modifying systems to meet changing needs; (d) establish data security standards and procedures; (e) use operating system performance monitors and related tools, interpret the results, and take appropriate corrective action; and (f) use various operating systems and perform system level programming.









# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 0002, 0004, 0006, 0008, 0010	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM / ITEM</b>	<b>E. CONTRACT / PR NO.</b> N00173-03-R-RS02	<b>F. CONTRACTOR</b> (TO BE PROVIDED AT AWARD)
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<b>1. DATA ITEM NO.</b> A006	<b>2. TITLE OF DATA ITEM</b> TECHNICAL & PROGRAM PROGRESS REPORTS	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> Section C - Attachment 1	<b>6. REQUIRING OFFICE</b> NRL Code ****
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<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> See Blk. 16	<b>12. DATE OF FIRST SUBMISSION</b> See Blk. 16	<b>14. DISTRIBUTION</b>		
		<b>11. AS OF DATE</b> See Blk. 16	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Blk. 16			
				<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final
					Reg	Repro

<b>16. REMARKS</b> The Contractor shall provide monthly progress reports summarizing problems and areas of concern for which Govt. assistance or guidance is needed; state any anticipated deviation in the Contractor's plans to achieve scientific/technical objectives. The Contractor shall describe technical progress during the reporting period, cite any major changes in the technical approach planned at the beginning of the reporting period, and specify any anticipated technical, logistic, or administrative problems. The report shall be concise, including the following topics: task-objectives, general technical approach, status at the beginning and end of reporting period; important findings and their implications; and significant hardware and software developments. Unless specifically stated, the SOW, the format for all deliverables under this CDRL shall be the Contractor's format as reviewed and approved by the COR. Monthly Status Reports shall be provided on a monthly basis beginning 30 DAC and by the 20th of each month thereafter.	<b>15. TOTAL</b> →
	COR
	ACO (trx. ltr. only)
	1
	1
	2

<b>1. DATA ITEM NO.</b> A007	<b>2. TITLE OF DATA ITEM</b> Other Deliverables	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> N00173-03-R-RS02	<b>6. REQUIRING OFFICE</b> NRL CODE ****
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<b>7. DD 250 REQ</b> DD	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ			
				<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final
					Reg	Repro

<b>16. REMARKS</b> The Contractor shall provide any other deliverables that may be required under the Statement of Work, as applicable.  If not specifically stated in the SOW, the format for all deliverables required under this CDRL shall be the Contractor's format as reviewed and approved by the COR.	<b>15. TOTAL</b> →
	COR
	ACO (trs. ltr. only)
	1
	1
	1

<b>G. PREPARED BY</b> RICHARD D. SEWELL	<b>H. DATE</b> 19 MAY 2003	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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



<b>DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				<b>1. CLEARANCE AND SAFEGUARDING SER: 031-03</b> a. FACILITY CLEARANCE REQUIRED <b>SECRET</b> b. LEVEL OF SAFEGUARDING REQUIRED <b>NONE</b>	
<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		<input checked="" type="checkbox"/>		a. ORIGINAL (Complete date in all cases)	
b. SUBCONTRACT NUMBER				DATE (YYYYMMDD) 20030501	
c. SOLICITATION OR OTHER NUMBER				b. REVISED (Supersedes all previous specs)	
76-0256-03				REVISION NO.	
DUE DATE (YYYYMMDD)				DATE (YYYYMMDD)	
X				c. FINAL (Complete Item 5 in all cases)	
DATE (YYYYMMDD)				DATE (YYYYMMDD)	
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.					
<b>5. IS THIS A FINAL DD FORM 254?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.					
<b>6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)</b>					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD				N/A	
<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> SPACE SCIENCE DIVISION RESEARCH AND DEVELOPMENT SUPPORT.					
<b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b>					
	YES	NO	<b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b>		
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	<input checked="" type="checkbox"/>	
b. RESTRICTED DATA		<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY		<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION		<input checked="" type="checkbox"/>	e. PERFORM SERVICES ONLY		<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		<input checked="" type="checkbox"/>
(2) Non-SCI		<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>
g. NATO INFORMATION		<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>	l. OTHER (Specify)		
k. OTHER (Specify)					

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

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 7601

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, and personnel available with DoD granted personnel security clearances commensurate with level of access required for performance of contract.

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

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

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

a. TYPED NAME OF CERTIFYING OFFICIAL TINA SMALLWOOD	b. TITLE CONTRACTING OFFICER, SECURITY	c. TELEPHONE (Include Area Code) (202) 767-2240/2391
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d. ADDRESS (Include Zip Code)  
 NAVAL RESEARCH LABORATORY  
 4555 OVERLOOK AVE. SW  
 WASHINGTON, DC. 20375-5320

e. SIGNATURE  


**17. REQUIRED DISTRIBUTION**

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1221.11, 7601, 7602

**ATTACHMENT 5:**  
**ACCOUNTING AND APPROPRIATION DATA**

(ACCOUNTING AND APPROPRIATION DATA WILL BE PROVIDED AT THE  
TIME OF AWARD)