

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO-C9	PAGE OF PAGES 1 28
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-06-R-JR06	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 28 MAR 06	6. REQUISITION/PURCHASE NUMBER 67-0372-06
7. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE., SW WASHINGTON, DC 20375-5320		CODE N00173	8. ADDRESS OFFER TO (If other than Item 7)		

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

**SOLICITATION**

9. Sealed offers in original and 3 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in BLDG 222, RM 115 until 4:00 pm local time 27 APR 06  
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME MR. JERRY RILES	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS jerry.riles@nrl.navy.mil
		AREA CODE 202	NUMBER 767-0667	EXT.

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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)	<input checked="" type="checkbox"/> 10 CALENDAR DAYS (%)	<input type="checkbox"/> 20 CALENDAR DAYS (%)	<input type="checkbox"/> 30 CALENDAR DAYS (%)	<input type="checkbox"/> CALENDAR DAYS (%)
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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)
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15B. TELEPHONE NUMBER AREA CODE NUMBER EXT.	<input type="checkbox"/> 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE	18. OFFER DATE
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**AWARD (To be completed by Government)**

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
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22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) ) <input type="checkbox"/> 41 U.S.C. 253(c) ( )	23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM
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24. ADMINISTERED BY (If other than Item 7) CODE	25. PAYMENT WILL BE MADE BY CODE
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26. NAME OF CONTRACTING OFFICER (Type or print)	27. UNITED STATES OF AMERICA <i>(Signature of Contracting Officer)</i>	28. AWARD DATE
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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 research support in the area Plasma Physics Research Support in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>TOTAL ESTIMATED COST PLUS FIXED FEE</b>		\$	\$	\$

\* *Not Separately Priced*

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

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

**C-1 STATEMENT OF WORK**

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

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

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 30 July 2004 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm> .

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

**D-1 PACKAGING AND MARKING**

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

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

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

**FAR CLAUSE    TITLE**

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

**DFARS CLAUSE    TITLE**

252.246-7000   -    Material Inspection And Receiving Report (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 is from date of contract award through twelve (12) months thereafter. If exercised, each option shall extend the period of performance an additional twelve (12) month period.
- (b) The principal place of performance of this contract shall be NRL, Washington, DC

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

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

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

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

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

**G-1 PROCURING OFFICE REPRESENTATIVE**

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

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

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

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

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email 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

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

**G-6 INCREMENTAL FUNDING**

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

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

**G-7 INFORMATIONAL SUBLINE ITEMS**

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

**G-8 PAYMENT INSTRUCTIONS FOR 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.

**G-9 PAYMENT AND VOUCHER INSTRUCTIONS**

In accordance with the contract clause, *Electronic Submission of Payment Requests* (DFARS 252.232-7003), the contractor must submit requests for payment electronically.

If the contractor uses the Wide Area Workflow (WAWF), it may be accessed at its homepage <https://wawf.eb.mil/>. If the contractor has not registered with WAWF, instructions for doing so may be accessed at: <https://wawf.eb.mil/vreg.htm>

The following information is applicable to vouchers submitted under this contract using WAWF:

Under "Create New Document" select "Public Voucher". When you enter the contract number, some of the other fields in the document may fill out automatically.

Use the appropriate Item Number stated in the contract (e.g., 0001, 0002 or 0001AA, 0001AB, etc).

Contract Number: [Use the contract number as listed on page one of the award document.]

Issue By DODAAC: N00173

Admin DODAAC: [Use the 6 character "ADMINISTERED BY" CODE as listed on page one of the award document]

Pay DODAAC: [Use the 6 character "PAYMENT WILL BE MADE BY" CODE as listed on page one of the award document]

DCAA Auditor DODAAC: Go to <http://www.dcaa.mil/> Select "Audit Office Locator" from Left Menu

Service Acceptor DODAAC: N00173 Extension

Ship To Code DODAAC: N00173 Extension

LPO DODAAC: N00173

Cage Code: [Use your company specific code.]

When submitting vouchers using WAWF, email notification is to be given to the COR identified in Section G of the contract.

If the contractor uses a method other than WAWF to submit vouchers under this contract, a copy of the voucher is to be sent (preferably by email) to the COR identified in Section G of the contract.

Pursuant to DFARS 242.803(b)(i)(c), if the cognizant Government auditor has notified the contractor of its authorization to do so, the contractor may submit vouchers under this contract direct to the payment office. Such authorization does not extend to the first and final vouchers. The contractor shall continue to submit first vouchers to the cognizant auditor. The final voucher shall be submitted to the Administrative Contracting Officer.

**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)*

<b>Labor Category</b>	<b>First/M/Last Name</b>
Senior Research Scientist	*
Research Scientist	*
Research Scientist	*
Research Scientist	*

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

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 26,200 total hours of direct labor for the Base year; 32,800 for Option Year 1; 35,800 total hours for Option Year 2; 36,500 total hours for Option Year 3; and 37,600 total hours for Option Year 4. These amounts include 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 2,183 hours per month for the Base year; 2,733 hours per month for Option Year 1; 2,983 per month for Option Year 2; 3,041 per month for Option Year 3; and 3,133 per month for Option Year 4.. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

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

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

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

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

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

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

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

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

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

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

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

<b>LABOR CATEGORY</b>	<b>BASE</b>	<b>OPT 1</b>	<b>OPT 2</b>	<b>OPT 3</b>	<b>OPT 4</b>
Senior Research Scientist	7,914	9,979	10,178	10,345	10,610
Research Scientist	3600	3600	5400	5400	5400
Senior Engineer	6,746	6,930	7,441	7,515	8,200
Engineer	0	1800	1800	1800	1800
Technician Level 1	5400	6000	6400	6800	6800
Technician Level 2	2,540	4491	4,581	4,640	4,790
<b>TOTAL</b>	<b>26,200</b>	<b>32,800</b>	<b>35,800</b>	<b>36,500</b>	<b>37,600</b>

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

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

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

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

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

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

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four (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 FAR 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.acqnet.gov/far>

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

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

**FAR CLAUSE    TITLE**

- 52.202-1    -    Definitions (JUL 2004)
- 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 (SEP 2005)
- 52.204-2    -    Security Requirements (AUG 1996)
- 52.204-4    -    Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
- 52.204-7    -    Central Contractor Registration (OCT 2003)
- 52.204-9    -    Personal Identity Verification Of Contractor Personnel (JAN 2006)
- 52.209-6    -    Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JAN 2005)
- 52.211-15    -    Defense Priority And Allocation Requirements (SEP 1990)
- 52.215-2    -    Audit And Records-Negotiation (JUN 1999)
- 52.215-8    -    Order Of Precedence - Uniform Contract Format (OCT 1997)
- 52.215-10    -    Price Reduction For Defective Cost Or Pricing Data (OCT 1997)
- 52.215-11    -    Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997)
- 52.215-12    -    Subcontractor Cost Or Pricing Data (OCT 1997)
- 52.215-13    -    Subcontractor Cost Or Pricing Data Modifications (OCT 1997)
- 52.215-14    -    Integrity Of Unit Prices (OCT 1997)
- 52.215-15    -    Pension Adjustments And Asset Reversions (OCT 2004)
- 52.215-17    -    Waiver Of Facilities Capital Cost Of Money (OCT 1997)  
*( will be included if the successful offeror does not propose facilities capital cost of money)*
- 52.215-18    -    Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (JUL 2005)

- 52.215-19 - Notification Of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements For Cost Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 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 (JUN 2003)
- 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)
- 52.222-39 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (MAR 2003)
- 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)
- 52.232-20 - 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 (OCT 2003) Alternate I(FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)

- 52.233-4 - Applicable Law For Breach Of Contract Claim (OCT 2004)
- 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 (MAR 2005)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items (FEB 2006)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (FEB 2006)
- 52.247-63 - Preference For U. S. Flag Air Carriers (JUN 2003)
- 52.249-6 - Termination (Cost-Reimbursement) (MAY 2004)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)( fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

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

### **DFARS CLAUSE    TITLE**

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (DEC 2004)
- 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 - Alternate A (NOV 2003)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 252.223-7001 - Hazard Warning Labels (DEC 1991)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)

- 252.225-7001 - Buy American Act And Balance Of Payments Program (JUN 2005)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7013 - Duty Free Entry (JUN 2005)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 2005)
- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 2005) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
  
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995) - Alternate I (JUN 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995) - Alternate I (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7026 - 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)
- 252.227-7037 - 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 (JAN 2004)
- 252.232-7010 - Levies On Contract Payments (SEP 2005)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (NOV 2004)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (NOV 2005)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)  
*(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)*
  
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

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

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

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

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

**WARNING**

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

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

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

- J-1** Attachment (1) - Statement Of Work – 7 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 4 Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 009-06 Dated 13 Mar 2006, 2 Pages.
- J-3** Attachment (3) – Personnel Qualifications, 4 Pages.
- J-4** Attachment ( ) – Accounting and Appropriation Data- 1 page. \*  
 (\* To be included at time of award)

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

**K-1 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

In accordance with FAR 4.1201, prospective contractors must complete electronic annual federal representations and certifications via the Online Representations and Certifications Application (ORCA) at <http://orca.bpn.gov> in conjunction with required registration in the Central Contractor Registration (CCR) <http://www.ccr.gov> database. The representations and certification must be updated as necessary, but at least annually, to ensure they are kept current, accurate and complete.

In addition, each offeror must submit completed DFARS and contract specific Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep sandcerts.htm> .

Use Contract Representations and Certifications: A

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2004)**

The fill in information is as follows:

- (a) (1) The NAICS code for this acquisition is 541710  
(2) The small business size standard is 500 Employees

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

**L-1 FAR 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.acqnet.gov/far>  
<http://heron.nrl.navy.mil/contracts/home.htm>

**FAR CLAUSE    TITLE**

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 (JAN 2004)
52.215-16	-	Facilities Capital Cost Of Money (JUN 2003)
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 (SEP 2004)
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**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:

**Contracting Officer, ATTN: Code 3230, Mr Jerry Riles**  
**RFP No. N00173- 06 – R- JR06      Closing Date: 13 Apr 2006      Time: 1600 EST.**  
**Naval Research Laboratory**  
**4555 Overlook Avenue, S.W.**  
**Washington, D.C. 20375**

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

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

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

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

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

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described in Sections L-14 and L-15.

**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 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

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

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

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

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

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

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

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

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

\*\* Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation,

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

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

Date \_\_\_\_\_  
 Printed Name and Title \_\_\_\_\_  
 \_\_\_\_\_  
 Signature \_\_\_\_\_  
 \_\_\_\_\_

(End of identification and assertion)

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

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

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

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

**L-9 GOVERNMENT-FURNISHED PROPERTY**

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

**L-10 INQUIRIES CONCERNING THE RFP**

Any questions concerning the RFP must be submitted in writing to the Contracting Officer

representative at the contact location noted in blocks 7 and 10 of the Standard Form 33, *Solicitation, Offer and Award*. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

## **L-11 PROPOSAL ORGANIZATION**

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

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

## **L-12 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

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

(1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. The contractor must propose in accordance with the Level of Effort breakdown set forth in Section H of the RFP. Should the Contractor's labor categories differ from those specified in Section H, the offeror should include a matrix relating the offeror's labor categories to those in Section H. This matrix shall not contain labor rates or any other indication of price.

(2) The following information is required for evaluation of your technical/management

#### **A. QUALIFICATIONS OF PERSONNEL:**

The Offeror should provide documented proof that it has, or has the ability to obtain personnel with relevant experience, both general and project related, and educational levels described in Attachment (3). The Offeror should indicate the specific personnel to be assigned to this project, their backgrounds, and the approximate amount of time each will be working on this project, including any proposed subcontractors and /or consultants . Key personnel should be clearly identified and their expertise stated and justified. The Offeror must demonstrate that all key personnel has or will be capable of obtaining the required security clearance plus any other personnel requiring security clearance.

#### **B. MANAGEMENT APPROACH:**

Offerors should demonstrate a sound technical understanding of the objectives of the required work and the issues involved in carrying out this work.

The Offeror should provide a detailed description of their proposed response to tasks from Sections 2.1 – 2.6 of the Statement of Work.

The Offeror should provide means for managerial control of quality, cost and timeliness for both smaller tasks requiring a rapid response, and for tasks involving complex design, fabrication, and installation of major laboratory equipment. The ability/procedure for accurate estimation of the cost of tasks is an important component. The rapid response capability requires that key personnel be based within daily commuting distance of NRL.

#### **C. COMPANY EXPERIENCE:**

Offerors should demonstrate the company's capacity to routinely and rapidly respond to the design engineering, fabrication and installation requirements of a research laboratory. Examples from within the previous 5 years must be provided. The Offeror should show a demonstrated capability to manage the design, fabrication, and installation of large, expensive (>\$100,000.00) components engineered for research applications. Examples and references should be provided for the prime contractor and proposed subcontractors.

#### **D. PAST PERFORMANCE INFORMATION**

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

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

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

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

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

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

**(1) COST PROPOSAL**

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

**L-14 MATERIALS/TRAVEL ESTIMATES AND OTHER DIRECT COSTS (FOR EVALUATION PURPOSES ONLY)**

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

**MATERIALS:**

The Government estimates the material costs for this effort to be as set forth below:

	<b>Base Year</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>	<b>Total</b>
Materials	\$450,000	\$450,000	\$500,000	\$550,000	\$550,000	\$2,500,000

**TRAVEL:**

The Government estimates the travel costs for this effort to be as set forth below:

	<b>Base Year</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>	<b>Total</b>
Travel	\$75,000	\$80,000	\$85,000	\$90,000	\$95,000	\$425,000

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

### **M-1 EVALUATION**

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

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

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor.

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

##### **A. QUALIFICATIONS OF PERSONNEL -**

The proposal will be evaluated on the offerors demonstrated ability to provide or obtain personnel with relevant experience, both general and project related, and educational levels described in Attachment (3). The proposal will be evaluated on the offerors specific personnel proposed to be assigned to this project, their backgrounds, and the approximate amount of time each are proposed to work on this project, including proposed subcontractors and /or consultants . The proposal will be evaluated on the offerors identified Key personnel and their applicable expertise. The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with, or, capable of obtaining a security clearance. This includes the key personnel and any other personnel requiring security clearances.

##### **B. MANAGEMENT APPROACH –**

The proposal will be evaluated on the offerors demonstration of a sound technical understanding of the objectives of the required work and the issues involved in carrying out this work.

The proposal will be evaluated on the offerors detailed description of their proposed response to tasks from Sections 2.1- 2.6 of the Statement of Work.

The proposal will be evaluated on the offerors demonstrated means for managerial control of quality, cost and timeliness for both smaller tasks requiring a rapid response, and for tasks involving complex design, fabrication, and installation of major laboratory equipment. The ability/procedure for accurate estimation of the cost of tasks will be evaluated as an important component. The rapid response capability requires that key personnel be based within daily commuting distance of NRL.

**C. COMPANY EXPERIENCE:**

Proposals will be evaluated on the company's demonstrated capacity to routinely and rapidly respond to the design engineering, fabrication and installation requirements of a research laboratory. The available examples from within the previous 5 years will be considered in evaluation of this capacity. The proposal will be evaluated on the offerors demonstrated capability to manage the design, fabrication, and installation of large, expensive (>\$100,000.00) components engineered for research applications. Evaluation will consider available examples and references for the prime contractor and proposed subcontractors.

**D. PAST PERFORMANCE**

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

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

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

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

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

**STATEMENT OF WORK**

**FOR ENGINEERING DESIGN, FABRICATION,  
TESTING, REPAIR AND MAINTENANCE  
SUPPORT FOR PLASMA PHYSICS RESEARCH**

## 1.0 INTRODUCTION AND SCOPE

The Naval Research Laboratory (NRL) Laser Plasma Branch is a significant part of the national research effort on inertial confinement fusion (ICF), laser-matter interaction, and high power lasers for fusion application. The Laser Plasma Branch has developed and is operating two multi-kilojoules KrF lasers, NIKE and ELECTRA as well as a kilojoule Nd:glass laser, PHAROS. The NIKE laser is unique in that it produces an extremely uniform laser focal profile. In addition to the laser, the NIKE facilities include a large target chamber and associated vacuum and cryogenic equipment, beam transport, focusing and diagnostic optics and electro-optics. Smaller lasers operating at many different wavelengths are utilized in diagnostics and beam alignment. There is a continuing need to improve the reliability and the performance of NIKE, and to improve diagnostic techniques for measuring the laser's operational performance. The NIKE laser is used for laser-target interaction, shock physics, and equation of state studies in support of the national Department of Energy (DOE) program for Inertial Confinement Fusion, concentrating on the use of its uniform focal profile to accelerate and diagnose custom designed targets. NIKE is also employed to produce and study uniform multi-megabar compression and shocks in materials of interest. The ELECTRA laser project is developing and demonstrating the technologies for a repetitively pulsed, electron beam pumped KrF laser that can meet the Inertial Fusion Energy (IFE) requirements for durability, efficiency, and cost. The main amplifier on Electra is pumped by two 500 kV, 100 kA electron beams. A major focus of current research efforts is to realize durability, which is primarily an issue of thermal management of the "hibachi" foil. The PHAROS Laser is a dual-beam flash lamp pumped Nd:glass laser capable of producing ~ 500 Joules/beam in ~8 nanosecond pulses. This system includes a 1.4 meter diameter target chamber, associated high vacuum equipment, target positioning controls, beam steering and focusing optics, and associated beam and target diagnostics. Research efforts utilizing PHAROS include efficient X-ray production from novel targets, simulation of astrophysical jets, shock propagation in gases and materials, and diagnostic development for the NIKE program. The Laser Plasma Branch includes a Special Projects Section. Projects to be supported within this section include laser based biohazard detection, shock propagation in energetic materials, as well as designing and conducting ultra-high speed imaging and spectral diagnostics for energetic events at sites other than NRL.

The Naval Research Laboratory (NRL) Beam Physics Branch plays a significant part in the national research efforts on beam plasma interaction, strong field physics, the production and investigation of shock waves in gases and solids, and the high-speed and high-dynamic range diagnostics required for these investigations. The Beam Physics Branch has several major research facilities including (1) a Table-Top Terawatt (T-Cubed or T3) laser which provides sub-picosecond multi-terawatt laser pulses for research in strong field physics and laser interaction with materials. (2) a Ti:sapphire Femtosecond Laser (TFL) which provides femtosecond multi-terawatt laser pulses for research in nonlinear laser propagation and interactions in various media. (3) Facilities for novel extreme ultraviolet (XUV) and X-Ray radiation generation from interaction of intense laser pulses with electron beams and plasmas. (4) Continuous wave (CW) kilowatt lasers for directed energy research of high energy laser propagation in the atmosphere. (5) High power CW and pulsed Gyrotrons operating at frequencies from 35 to 120 GHz for materials processing and microwave vulnerability studies.

The scope of this contract will be to provide technical and engineering support services for the Laboratory's efforts in laser-plasma interaction, beam-plasma interactions, shock physics, high power microwave interactions, and the high speed, high dynamic range diagnostics associated with these research efforts and other projects. Support will also be required for the operation, maintenance and modification of existing facilities including: the NIKE, ELECTRA, PHAROS, T3, TFL and CW kilowatt lasers (and numerous other lasers used in these facilities, or to be added at a later date), as well as high power Gyrotrons and the target facilities, experiment facilities and diagnostics dedicated to these lasers. This shall include the contractor's design, fabrication, installation, repair, maintenance and support of research hardware and related equipment. The contractor shall furnish design and engineering support, as well as machining, construction, and the acquisition and assembly of hardware and/or systems or subsystems off site, which will become an integral part of the Government Facility. Such hardware may be specialized, one-of-a-kind, or prototype hardware needed to conduct experiments, for example, target chamber construction or modification, fixtures for beam transport, focusing and aligning, laser upgrades, diagnostic equipment and set up, etc. Some of the equipment may be commercial off-the-shelf (COTS) equipment when the government is unable to obtain the equipment directly in a timely manner. The contractor shall also deliver systems or subsystems. The contractor shall perform design work both on-site and off-site. The contractor shall attend status updates, hardware reviews, planning meetings and other technical meetings and programs, both on-site and off-site, when requested. In addition, the contractor shall provide professional and technical on-site support to coordinate designs with existing hardware, and for assemble, debugging, maintenance, repair and support of research hardware delivered to the Government and to repair and/or modify existing hardware (such as laser amplifiers, vacuum systems, optical systems or diagnostics).

## **2.0 TECHNICAL REQUIREMENTS**

The Contractor shall provide technical and engineering support for the Laboratory's facilities and experiments. In addition, the Contractor shall design, fabricate and deliver to NRL incidental hardware required for the operation of and research within the Laboratory facilities. The Contractor shall also modify, repair or maintain existing equipment in support of on-going research efforts and document performance of systems or subsystems. The Contractor shall provide experiment support, design, fabrication, maintenance, and repair of systems or subsystems. The general areas of design, fabrication, operation, repair and maintenance, and experiment support are specified below. Experiment support may include the operation of specific diagnostic equipment, the archiving and analysis of data obtained, and the presentation of results at scientific meetings or preparation for publication in scientific journals.

## 2.1 DESIGN

The contractor shall design specific pieces of hardware for the support and use in the research carried out by the Beam Physics and Laser Plasma Branches of the Plasma Division of NRL. This requirement may include the design of modifications, maintenance, and enhancement of existing hardware or new systems depending on the research in progress throughout the life of the contract. The Contractor shall provide, to the Government, the design details, drawings and/or Computer Aided Design (CAD) files in accordance with the DD Form 1423, Contract Data Requirements List (CDRL Item A004). Examples of typical designs to be performed include: transport of the NIKE, ELECTRA, PHAROS, T3 and TFL laser beam(s) or high power microwave beams to various locations in their respective target areas, transport of various probing laser beams for diagnostic applications, vacuum spatial filters, laser pump chamber heads, pulse forming networks for flash lamp driven lasers, precision electro-mechanical translators for target positioning or laser focusing, specialized optics holders and opto-electronics for laser synchronization, diagnostics, and laser pulse shaping. The design work will be primarily mechanical, electro-mechanical, electro-optical, and opto-mechanical; however, the design may be some combination of electro-optic, electronics, and control engineering. From time-to-time, the Contractor may be required to provide expertise and support in the areas of spectroscopy, ultra-fast electro-optics or other ultra-fast diagnostics, X-ray optics and imaging, as well as a wide variety of optical imaging of shock waves and other high speed high dynamic range events.

## 2.2 FABRICATION AND MODIFICATION

The Contractor shall provide fabrication of new hardware and modification of existing hardware that is required for the research efforts of Beam Physics and Laser-Matter Interaction Branches of the Plasma Division of the Naval Research Laboratory. The contractor shall deliver this hardware to the Government for use in the experimental programs. Examples of such fabrication tasks would be similar to those listed in Section 2.1. The contractor shall provide a rapid response (Not-to-exceed a two-day turnaround) to small scale machining modification tasks such as providing or modifying custom target holders, optical mounts, or components of diagnostics. Within thirty (30) days from the delivery of the fabricated hardware or completion of the existing hardware modification, the Contractor shall provide Operating Instructions and/or Manuals for each. These manuals/instructions must be submitted in accordance with the DD Form 1423, Contract Data Requirements List. (CDRL Item A005)

### **2.3 OPERATION AND MAINTENANCE OR REPAIR OF FACILITIES**

The contractor shall provide experiment support by on-site personnel for the operation of existing Laboratory Facilities such as the NIKE, ELECTRA, PHAROS, T3 and TFL lasers and high-power microwaves, their diagnostics and associated target facilities. The contractor shall also maintain and/or repair existing and newly fabricated hardware related to the research performed by the Laboratory. This would include trouble shooting, removal and reinstallation of equipment, shipping of equipment to manufacturers for repair and/or modification, and design, fabrication and modification of existing research equipment. For the NIKE and ELECTRA KrF Laser Systems, the contractor shall provide technical support, operation and maintenance of the electron beam amplifiers and vacuum and electronics systems, as well as systems in the NIKE propagation bay and the target chamber. For the PHAROS facility, the contractor shall provide technical support, operation and maintenance of laser components, target chamber and control system. For the T3 and TFL lasers the contractor shall provide technical support, operation and maintenance of laser components, beam lines including pulse stretching and compression, target system and control. For the special projects section the contractor shall provide technical support, operation and maintenance of specialized lasers, data acquisition systems, as support of systems deployed off site.

As part of the facilities support, the Contractor shall maintain a record that contains the repair and maintenance history of all hardware repaired or modified (by the contractor) in support of each of the facilities, whether currently in existence or newly fabricated. This record must contain the name of the hardware item, a short description of the problem (if any) and what action was taken. This record must be available to Government personnel at all times. Upon contract completion, the Contractor shall provide this record to the Government in accordance with the DD Form 1423, Contract Data Requirements List. (CDRL Item A006)

### **2.4 SUPPORT OF LARGE SCALE DESIGN, FABRICATION, AND INSTALLATION OF SUB-SYSTEMS FOR THE LASERS AND TARGET FACILITIES**

The contractor shall support design through fabrication and installation of major modifications and/or additions to Laboratory facilities including the NIKE, ELECTRA, PHAROS, T3 and other specialized Lasers and their associated experiment facilities, target chambers and diagnostics. Typical major systems may include large aperture grating pulse compressor and vacuum chamber, ELECTRA laser components, or novel beam lines. In addition, the Contractor may be required to support the following efforts (or similar): redeployment of the laser facilities to other locations on the NRL, Washington DC site, the design and deployment of an additional multi-kilojoule laser facility, automated beam alignment and beam diagnostics, low jitter probe lasers synchronized with one or more of the principal laser systems, beam transport and frequency doubling (or other harmonics) capability for the lasers, multi-channel fiber optic data acquisition utilizing state-of-the-art imaging and streak cameras. On the T3 and TFL lasers, typical major systems might include upgrades of the TFL to higher power operation as well as underwater laser propagation and interaction chambers. Contractors shall support the following efforts: installation of supporting structures and utilities for the pump lasers of the upgraded system, interlock system design, fabrication and installation, automated alignment system and beam diagnostics, harmonic generations, underwater chamber design, fabrication and deployment of diagnostics. Other similar projects may arise in response to sponsor identified requirements and will be specified to the Contractor through technical direction. The contractor shall manage these systems, minimizing the costs for design, fabrication, and installation of the systems and subsystems, and ensuring that the work is completed with schedule. The contractor shall communicate frequently with the COR to insure that the work continues to meet the research requirements.

The Contractor shall provide documentation similar to the requirements previous to this Section. This documentation must include design drawings (including files from CAD programs), as well as any necessary operating instructions/manuals. During the process of major facility fabrication/ modification, the Government may require the Contractor to provide a brief report of the progress and current cost estimates as the fabrication/ modification continues to completion. The above documentation must be submitted in accordance with the DD Form 1423, Contract Data Requirements List. (CDRL Item A004, A005, and A007)

## 2.5 SUPPORT OF ON-SITE AND FIELD EXPERIMENTS

The Contractor shall provide support, to include design, fabrication, and calibration as well as hardware, software, and diagnostics for the Laboratory's research efforts both on-site and for fielded experiments at off-site locations, such as Lawrence Livermore Laboratory, Sandia Laboratory, the Laboratory for Laser Energetics, or NRL's field sites such as Chesapeake Bay and Stennis Space Center. An example of Contractor required off-site support might be experiment design, installation and operation of an NRL high speed film or gated optical framing camera for imaging of an energetic event at a remote Government site (such as White Sands, NM). The contractor shall also provide technical and scientific support for experiments utilizing the NIKE, ELECTRA, PHAROS, T3, AND TFL lasers (or other lasers) and target chamber diagnostics. Examples of diagnostic instruments are fast streak and framing cameras in the visible, UV, and X-ray radiation bands, as well as time-resolved spectral diagnostics relevant to laser-target interaction studies.

The Contractor, in support of the requirements herein, shall install and operate diagnostic equipment, acquire raw data, process the data, as well as analyze and archive collected data. Upon completion of this analysis, the Contractor shall provide the data acquired, including all computer files, portable drives, disks, tapes, films and digital images, etc., and submit a written report (when required) of the results, in accordance with the DO Form 1423, Contract Data Requirements List. (CDRL Items A008 and A009) or assist in the preparation of this data for presentation at scientific conferences or submission to scientific publications. (For instance, for the high speed camera example illustrated above, the Contractor would be required to acquire and develop the images on film, digitize, analyze and archive the image data, as well as provide a report of the results/analysis of such data.)

## 3.0 DELIVERABLES

The Contractor shall provide the following additional items in accordance with attached Contract Data Requirements List (DD Form 1423):

- (a) On-Site Labor Report. (CDRL Item A001) This on-site labor report must include the following information at a minimum:
  - Part (A)
    - Reporting Period:
    - Contract Number:
    - Contract Value:
    - Current Funding:
    - Amount Expended in the Current Period:
    - Total Expended to Date:
    - Date Submitted:

Part (B)

- Labor (including subcontractors/consultants) - Show employee name, number of hours, and total amount billed for contractor employees working on-site at NRL. If the contractor employees worked on multiple tasks (as defined by the COR), the number of hours worked on each task must be shown separately.

(b) Cost Status Report (CDRL Item A002).

(c) Final Report (CDRL Item A010)

(d) Hardware and Hardware Modification Designs, Drawings, and CAD Files (CDRL A004)

(e) Fabricated and/or Modified Hardware Operating Instructions and Manuals (CDRL A005)

(f) Hardware Repair and Maintenance History Records (CDRL A006)

(g) In-Process Fabrication/Modification Progress Reports (w/Cost Estimates) (CDRL A007)

(h) Software, Software Source Codes, and Documentation (CDRL A008)

(i) Data Analysis Reports (CDRL A009)

(j) Technical Progress Reports (semi-annually) (CDRL A003)

(k) Final Reports (CDRL A010)

<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</b> SER: 009-06 a. FACILITY CLEARANCE REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;"><b>SECRET</b></div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;"><b>NONE</b></div>	
<b>2. THIS SPECIFICATION IS FOR:</b> <i>(X and complete as applicable)</i>			<b>3. THIS SPECIFICATION IS:</b> <i>(X and complete as applicable)</i>		
	a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/>	a. ORIGINAL <i>(Complete date in all cases)</i>	DATE (YYYYMMDD)
	b. SUBCONTRACT NUMBER			b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO. DATE (YYYYMMDD)
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER 67-0372-06	DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete Item 5 in all cases)</i>	DATE (YYYYMMDD)
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under <u>N00173-99-C-2055</u> <i>(Preceding Contract Number)</i> 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</b> <i>(Include Commercial and Government Entity (CAGE) Code)</i>					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>		
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD			N/A		
<b>7. SUBCONTRACTOR</b>					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>		
N/A			N/A		
<b>8. ACTUAL PERFORMANCE</b>					
a. LOCATION		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>		
N/A			N/A		
<b>9. GENERAL IDENTIFICATION OF THIS PROCUREMENT</b> ENGINEERING DESIGN, FABRICATION, TESTING, REPAIR AND MAINTENANCE					
<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				e. PERFORM SERVICES ONLY	<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)			<input checked="" type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	<input checked="" type="checkbox"/>
(2) Non-SCI			<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION			<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT	<input checked="" type="checkbox"/>
g. NATO INFORMATION			<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS	<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION			<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION			<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION			<input checked="" type="checkbox"/>	l. OTHER <i>(Specify)</i>	
k. OTHER <i>(Specify)</i>					

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

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 6731

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 final DoD granted personnel security clearances commensurate with level of access required for performance of contract.

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

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

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

a. TYPED NAME OF CERTIFYING OFFICIAL <b>VICKI CICALA</b>	b. TITLE <b>CONTRACTING OFFICER, SECURITY</b>	c. TELEPHONE ( <i>Include Area Code</i> ) <b>(202) 767-2240/2576</b>
d. ADDRESS ( <i>Include Zip Code</i> ) <b>NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE. SW WASHINGTON, DC 20375-5320</b>	<b>17. REQUIRED DISTRIBUTION</b> <input checked="" type="checkbox"/> a. CONTRACTOR <input type="checkbox"/> b. SUBCONTRACTOR <input checked="" type="checkbox"/> c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR <input type="checkbox"/> d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION <input type="checkbox"/> e. ADMINISTRATIVE CONTRACTING OFFICER <input checked="" type="checkbox"/> f. OTHERS AS NECESSARY <b>1226.2, 6702, 6731</b>	
e. SIGNATURE 		

## **Personnel Qualifications**

The contractor shall (as required) propose and provide personnel that have a DOD issued SECRET security clearance or capable of receiving the required clearance prior to contract award. Personnel not holding or capable of receiving the required security clearance(s) may be proposed for non-classified projects. The following are the minimum desired personnel qualifications.

### **1. Senior Research Scientist**

**Education:** BS degree in Mathematics or Physics from an accredited four-year college or university.

**Experience:** A minimum of 10 years experience of progressive responsibility in science or applied science disciplines associated with the design, testing, fabrication, deployment, and operation of apparatus for experiments. This experience must include:

a. A minimum of 5 years of progressive responsibilities in design, fabrication and operation of experiments investigating high power lasers, plasma, or microwaves. Relevant experience could include experiments using fast gated optical or x-ray imaging of laser produced plasmas, laser beam profile analysis, or shock propagation diagnostics.

b. Successful management or principal investigator (PI) for at least one major research project. Projects that would be considered adequate include: diagnostics for harmonic generation in laser-plasma interactions, characterization of laser produced shock propagation in solids and liquids, determination of equations of state in ultra-high pressure environments, or measurement of compressed matter densities.

c. Demonstrated ability to solve diagnostic problems, analyze and report data from experiments. Examples must be provided such as publications in refereed scientific publication, reports to sponsoring agencies, articles and contributions to books, etc.

### **2. Senior Mechanical, Optical, or Electrical Engineer**

**Education:** BS degree in Engineering (Mechanical, Optical, or Electrical) or Physics or Mathematics from an accredited four-year college or university.

**Experience:** A minimum of 10 years of progressive responsibility in applied disciplines associated with the design, manufacturing, testing, fabricating, and installation of mechanical, opto-mechanical, electro-mechanical, or electro-optical equipment. This experience must include:

a. A minimum of 5 years experience in design, fabrication operation of components of high power lasers or microwave systems. Relevant experience could include design of high physical stability precision optical mounts for large diameter lenses, mirrors, and other optical components; design or construction of Q-switches, high power laser heads or high current pulse forming networks.

**b.** Successful management or principal responsibility for at least one major project involving the design, fabrication, and installation of unique equipment for research applications in laser development, high intensity laser-target interaction, or high voltage pulsed power projects. Projects that would be considered adequate include: a large target chamber system, a unique laser system, a high energy (>10 J) laser amplifier, or a large (>10 kJ) pulsed power machine. At least one example must be for work completed within the past five years.

**c.** Demonstrated ability to solve unusual problems in mechanical, optical, or electrical engineering that arise routinely in supporting research. Examples must be provided.

### **3. Research Scientist**

**Education:** BS degree in Mathematics or Physics from an accredited four-year college or university.

**Experience:** A minimum of 6 years experience of progressive responsibility in science or applied science disciplines associated with the design, testing, fabrication, deployment, and operation of apparatus for experiments. This experience must include:

**a.** A minimum of 3 years experience in design, fabrication operation of experiments investigating high power lasers, plasma, or microwaves. Relevant experience could include experiments using fast gated optical or x-ray imaging of laser produced plasmas, laser beam profile analysis, or shock propagation diagnostics.

**b.** Designated responsibility for at least one element of a major research project. Projects that would be considered adequate include: diagnostics for harmonic generation in laser-plasma interactions, characterization of laser produced shock propagation in solids and liquids, determination of equations of state in ultra-high pressure environments, or measurement of compressed matter densities.

**c.** Demonstrated ability to solve diagnostic problems, analyze and report data from experiments. Examples must be provided such as co-authored articles in refereed scientific publication or other acknowledgement of contributions, reports to sponsoring agencies, etc.

**4. Mechanical, Optical, or Electrical Engineer**

**Education:** BS degree in Engineering (Mechanical, Optical, or Electrical) or Physics from an accredited four-year college or university.

**Experience:** A minimum of 6 years of progressive responsibility in applied disciplines associated with the design, manufacturing, testing, fabricating, and installation of mechanical, opto-mechanical, electro-mechanical, or electro-optical equipment. This experience must include:

a. A minimum of 3 years experience in design, fabrication, or operation of components of high power lasers or microwave systems. Relevant experience could include design of high physical stability precision optical mounts for large diameter lenses, mirrors, and other optical components; design or construction of Q-switches, high power laser heads or high current pulse forming networks.

b. Responsibility for at least one project involving the design, fabrication, and installation of equipment for research applications in laser development, high intensity laser-target interaction, vacuum systems, or high voltage pulsed power projects. At least one example must be for work completed within the past five years.

c. Demonstrated ability to work independently to solve problems in mechanical, optical, or electrical engineering that arise routinely in supporting research. Examples must be provided.

**5. Mechanical, Optical, or Electrical Technician Level 1.**

**Education:** AA degree in Science, Technology or Engineering from an accredited two-year college (junior college) or technical program. Experience may be substituted for this requirement.

**Experience:** A minimum of 6 years of experience (4 years if the above education requirement is met) in applied science disciplines associated with the testing and installation of vacuum, mechanical, opto-mechanical, electro-mechanical, or electro-optical, or process control equipment. This experience must include:

a. A minimum of 2 years experience in design, fabrication, or operation of components of control, vacuum, lasers or microwave systems. Relevant experience could include maintenance of electro-optical, vacuum processing, or other research or production systems.

b. Participation in at least one project involving installation or maintenance of equipment for research applications or commercial manufacturing. At least one example must be for work completed within the past five years.

c. Demonstrated ability to work as assigned and to complete tasks in a timely and efficient manner. Examples should be provided via references.

6. **Mechanical, Optical, or Electrical Technician level 2.**

**Education:** AA degree in Science, Technology or Engineering from an accredited two-year college (junior college) or technical program. Experience may be substituted for this requirement.

**Experience:** A minimum of 2 years of experience (no experience required if the above education requirement is met) in applied science disciplines associated with the testing and installation of vacuum, mechanical, opto-mechanical, electro-mechanical, or electro-optical, or process control equipment. This experience must include:

a. When substituting experience for education, a minimum of 2 years experience in design, fabrication, or operation of components of control, vacuum, lasers or microwave systems. Relevant experience could include maintenance of electro-optical, vacuum processing, or other research or production systems.

b. When substituting experience for education, participation in at least one project involving installation or maintenance of equipment for research applications or commercial manufacturing. At least one example must be for work completed within the past five years.

c. Ability to work as assigned and to complete tasks in a timely and efficient manner. Examples should be provided via references.



**CONTRACT DATA REQUIREMENTS LIST**

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The public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

**A. CONTRACT LINE ITEM NO.** 0002 **B. EXHIBIT** A **C. CATEGORY:** TDP \_\_\_\_\_ TM \_\_\_\_\_ OTHER \_\_\_\_\_

**D. SYSTEM/ITEM** PLASMA PHYSICS RESEARCH SPPT **E. CONTRACT/PR NO.** N00173-06-R-JR06 **F. CONTRACTOR** TBD

**1. DATA ITEM NO.** A002 **2. TITLE OF DATA ITEM** COST STATUS REPORT **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** MTHLY **12. DATE OF FIRST SUBMISSION** 45 DAC Awd  
**8. APP CODE** **11. AS OF DATE** 45 DAC Awd **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**15. TOTAL** → 0 1 0

**16. REMARKS**  
The Contractor shall provide a report citing the status of funds, including: all labor expenditures (persons, hours worked, cost), materials (description, cost and use on contract); travel( name, from/to, reason); applied overhead & G&A

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A003 **2. TITLE OF DATA ITEM** SEMI-ANNUAL PROGRESS REPORT **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** SEMIA **12. DATE OF FIRST SUBMISSION** 180 DAC Awd  
**8. APP CODE** **11. AS OF DATE** 180 DAC Awd **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**16. REMARKS**  
The Contractor shall provide semi-annual technical reports for the purpose of reporting progress under the contract. The report may be in letter format of technical report format.

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A004 **2. TITLE OF DATA ITEM** DESIGNS, DRAWINGS, PLANS, CAD FILES **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW SEC 2.1, 2.4, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** ASREQ **12. DATE OF FIRST SUBMISSION** See Blk 16  
**8. APP CODE** **11. AS OF DATE** See Blk 16 **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**16. REMARKS**  
The Contractor shall submit any drawings, documentation, plans, schematics, manuals, and applicable CAD files developed in connection with modified and /or fabricated hardware NLT 30 days after completion of task.

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A005 **2. TITLE OF DATA ITEM** OPERATING INSTRUCTIONS AND MANUALS **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 2.2, 2.4, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** ASREQ **12. DATE OF FIRST SUBMISSION** See Blk 16  
**8. APP CODE** **11. AS OF DATE** See Blk 16 **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**15. TOTAL** → 0 1 0

**16. REMARKS**  
The Contractor shall provide all applicable manuals and operating instructions within 30 days after delivery of fabricated and modified hardware.

17. PRICE GROUP  
18. ESTIMATED TOTAL PRICE

**G. PREPARED BY** CODE 6702 **H. DATE** 02/24/06 **I. APPROVED BY** **J. DATE**

**CONTRACT DATA REQUIREMENTS LIST**

Form Approved  
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The public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

**A. CONTRACT LINE ITEM NO.** 0002 **B. EXHIBIT** A **C. CATEGORY:** TDP \_\_\_\_\_ TM \_\_\_\_\_ OTHER \_\_\_\_\_

**D. SYSTEM/ITEM** PLASMA PHYSICS RESEARCH SPPT **E. CONTRACT/PR NO.** N00173-06-R-JR06 **F. CONTRACTOR** TBD

**1. DATA ITEM NO.** A006 **2. TITLE OF DATA ITEM** HARDWR REPAIR AND MAINT. HISTORY RECORD **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 2.3, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** ASREQ **12. DATE OF FIRST SUBMISSION** See Blk 16  
**8. APP CODE** **11. AS OF DATE** ASREQ **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**16. REMARKS**  
The Contractor shall maintain appropriate logs, on-site at NRL, making them available at all times. The Contractor shall provide this log to the Government upon contract completion.  
**15. TOTAL** → 0 1 0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A007 **2. TITLE OF DATA ITEM** IN-PROCESS FABRICATION/MOD PROGRESS RPT **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 2.4, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** SEMIA **12. DATE OF FIRST SUBMISSION** 180 DAC Awd  
**8. APP CODE** **11. AS OF DATE** 180 DAC Awd **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**16. REMARKS**  
The Contractor shall provide a report of the progress and current cost estimates as the fabrication and modification continues to completion, within 15 days of the request.  
**15. TOTAL** → 0 1 0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A008 **2. TITLE OF DATA ITEM** SOFTWARE, SOFTWARE DOC., SOURCE CODES **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW SEC 2.5, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** ASREQ **12. DATE OF FIRST SUBMISSION** ASREQ  
**8. APP CODE** **11. AS OF DATE** ASREQ **13. DATE OF SUBSEQUENT SUBMISSION** ASREQ

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**16. REMARKS**  
The contractor shall provide all software,, software documentation, and source codes developed under this contract at Government's expense  
**15. TOTAL** → 0 1 0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

**1. DATA ITEM NO.** A009 **2. TITLE OF DATA ITEM** DATA ANALYSIS REPORTS **3. SUBTITLE**

**4. AUTHORITY (Data Acquisition Document No.)** **5. CONTRACT REFERENCE** SOW, SEC 2.5, 3.0 **6. REQUIRING OFFICE** NRLDC

**7. DD 250 REQ** LT **9. DIST STATEMENT REQUIRED** **10. FREQUENCY** ASREQ **12. DATE OF FIRST SUBMISSION** See Blk 16  
**8. APP CODE** **11. AS OF DATE** ASREQ **13. DATE OF SUBSEQUENT SUBMISSION** See Blk 16

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**16. REMARKS**  
The Contractor shall provide all data acquired and submit a written report of the results within sixty days from completion of the experiment.  
**15. TOTAL** → 0 1 0

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

**G. PREPARED BY** CODE 6702 **H. DATE** 02/24/06 **I. APPROVED BY** **J. DATE**

