

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING <b>DO-C9</b>	PAGE OF <b>1   26</b> PAGES
2. CONTRACT NO.	3. SOLICITATION NO. <b>N00173-00-R-JR03</b>	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED <b>13 Mar 2000</b>	6. REQUISITION/PURCHASE NO. <b>67-1559-00</b>
7. ISSUED BY Procuring Contracting Officer Naval Research Laboratory-SSC, Code3235:JR Department of the Navy Stennis Space Center, MS 39529-5004		CODE <b>N00173</b>	8. ADDRESS OFFER TO (If other than Item 7)		

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

**SOLICITATION**

9. Sealed offers in original and 3 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in NRL-SSC, Bldg 1007, Rm 47 until 4:00pm local time 13 April 2000  
(Hour) (Date)

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

10. FOR INFORMATION CALL:	A. NAME <b>JERRY RILES, Contract Specialist</b>	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <b>(228) 688-4259</b>
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**OFFER (Must be fully completed by offeror)**

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

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

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)		10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
		%	%	%	%
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:		AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)		
15B. TELEPHONE NO. (Include area code)	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.		17. SIGNATURE	18. OFFER DATE	

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

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <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)	
24. ADMINISTERED BY (If other than Item 7)	CODE	25. PAYMENT WILL BE MADE BY	CODE
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	28. AWARD DATE

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

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

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

<b>ITEM NUMBER</b>	<b>SUPPLIES/SERVICES</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>ESTIMATED COST PLUS FIXED FEE</b>
<b>BASE</b>				
0001	The Contractor shall provide research and support in the area of Radiation and Acceleration Physics	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>OPTION 1</b>				
0003	The Contractor shall provide research and support in the area of Radiation and Acceleration Physics	\$	\$	\$
0004	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>OPTION 2</b>				
0005	The Contractor shall provide research and support in the area of Radiation and Acceleration Physics	\$	\$	\$
0006	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>TOTAL EST. COST PLUS FIXED FEE</b>		<b>\$</b>	<b>\$</b>	<b>\$</b>

\* Not Separately Priced

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

**C-1 STATEMENT OF WORK**

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

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

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 28 July 1999 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)

**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 one year thereafter. Each option, if exercised shall extend the term an additional year.

(b) The principal place of performance of this contract shall be \*

*( \* To be completed 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.

Contract Matters- \*

Security Matters- \*

Safety Matters- \*

Patent Matters- \*

Release of Data- \*

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

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

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

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

( \* To be completed at time of award)

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

- (a) For the purposes of this clause, technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
  - (2) Guidelines to the Contractor which assist in interpretation of drawings, specifications or technical portions of work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
- (1) Assign additional work under the contract;
  - (2) Direct a change as defined in the contract clause entitled "Changes";
  - (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
  - (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
- (1) Date of TDM,
  - (2) Contract Number,
  - (3) Reference to the relevant portion or item in the Statement of Work,
  - (4) The specific technical direction or clarification, and
  - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.

(g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

#### **G-4 SUBCONTRACTORS/CONSULTANTS**

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

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

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

#### **G-5 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)**

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

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

*(To be completed at time of award)*

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

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

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

- (1) Contract line item number (CLIN)
- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number(ACRN)
- (4) Payment terms
- (5) Procuring activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract

- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
- (e) A DD Form 250, "Material Inspection and Receiving Report",  
     \_\_\_ is required with each invoice submittal.  
     X is required only with the final invoice.  
     \_\_\_ is not required.
- (f) A Certificate of Performance  
     \_\_\_ shall be provided with each invoice submittal.  
     X is not required.
- (g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.
- (h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

#### **G-6 INCREMENTAL FUNDING**

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

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

#### **G-7 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

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

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

**SECTION H  
SPECIAL CONTRACT REQUIREMENTS**

**H-1 TYPE OF CONTRACT**

This is a \*

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

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

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

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least fifteen (15) days in advance (thirty (30) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

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

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

The following are identified as key personnel: \*

Senior Research Scientist  
Research Scientist  
Engineer/technician

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

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

- (a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 5800 total hours per year of direct labor for the base year and each option year if exercised, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.
- (b) The level of effort for this contract shall be expended at an average rate of 483 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.
- (c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.
- (d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.
- (e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.
- (f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

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

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

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

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the

estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

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

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

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

<u>Labor Category</u>	<u>Base</u>	<u>Option 1</u>	<u>Option 2</u>
Research Scientist	1850	1850	1850
Engineer/Technician	<u>2100</u>	<u>2100</u>	<u>2100</u>
<b>TOTAL</b>	<b>5800</b>	<b>5800</b>	<b>5800</b>

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

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, "Scientific and Technical Reports: Elements, Organization, and Design. "[NOTE: ANSI Z39.18 may be obtained from NISO Press Fulfillment Center, P. O. Box 338, Oxon Hill, MD. 20750-0338.Telephone 1-800-282-6476]

**H-5 OPTION TO EXTEND TERM**

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

**H-6 ON-SITE USE OF GOVERNMENT PROPERTY**

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

**H-7 YEAR 2000 COMPLIANT INFORMATION TECHNOLOGY**

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

**H-8 REPRESENTATIONS AND CERTIFICATIONS**

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

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

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

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

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

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

<b><u>FAR CLAUSE</u></b>	<b><u>TITLE</u></b>
52.202-1	- Definitions (OCT 1995)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52-203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)
52.204-4	- Printing/Copying Double-Sided On Recycled Paper (JUN 1996)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	- Defense Priority and Allocation Requirements (SEP 1990)
52.215-2	- Audit And Records-Negotiation (JUNE 1999)
52.215-2	- Audit And Records-Negotiation (AUG 1996) - Alternate II (APR 1998)
52.215-8	- Order of Precedence - Uniform Contract Format (OCT 1997)
52.215-11	- Price Reduction for Defective Cost or Pricing Data - Modifications (OCT 1997)
52.215-13	- Subcontractor Cost or Pricing Data Modifications (OCT 1997)
52.215-14	- Integrity of Unit Prices (OCT 1997)
52.215-15	- Pension Adjustments And Asset Reversions (DEC 1998)
52.215-17	- Waiver of Facilities Capital Cost of Money (OCT 1997) ( <i>will be included if the successful offeror does not propose facilities capital cost of money</i> )
52.215-18	- Reversion or Adjustment of Plans for Post-retirement Benefits (PRB) Other than Pensions (OCT 1997)
52.215-19	- Notification of Ownership Changes (OCT 1997)
52.215-21	- Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
52.216-7	- Allowable Cost And Payment (APR 1998)
52.216-8	- Fixed-Fee (MAR 1997)
52.219-6	- Notice Of Total Small-Business Set-Aside (JUL 1996)

- 52.219-8 - Utilization Of Small Business Concerns (OCT 1999)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-1 - Notice To The Government Of Labor Disputes (FEB 1997)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (FEB 1999)
- 52.222-35 - Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.223-2 - Clean Air And Water (APR 1984)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention and Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (JAN 1997)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 1996)
- 52.225-11 - Restrictions On Certain Foreign Purchases (AUG 1998)
- 52.226-1 - Utilization Of Indian Organizations And Indian-Owned Economic Enterprises (MAY 1999)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
*(will be included if the successful offeror is a small business or a non-profit organization)*
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-22 - Limitation Of Funds (APR 1984) *(Applicable when the contract or task order is not fully funded)*
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (JUN 1997)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.237-10 - Identification of Uncompensated Overtime (OCT 1997)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (OCT 1995)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)

- 52.244-6 - Subcontracts for Commercial Items and Commercial Components (OCT 1998)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.245-9 - Use And Charges (APR 1984) (DEVIATION)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)( fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

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

**DFARS CLAUSE    TITLE**

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 1998)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)[use in solicitations and contracts with a value of \$100k or more)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 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 (MAR 1998)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7009 - Duty Free Entry- Qualifying Country Supplies (End Products and Components) (MAR 1998)
- 252.225-7010 - Duty Free Entry - Additional Provisions (MAR 1998)
- 252.225-7012 - Preference For Certain Domestic Commodities (MAY 1999)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (AUG 1998)
- 252.225-7021 - Trade Agreements (MAR 1998)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (MAR 1998)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)

- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bids or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (OCT 1988)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.235-7010 - Acknowledgment of Support and Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (SEP 1996)
- 252.243-7002 - Requests for Equitable Adjustment (MAR 1998)
- 252.245-7001 - Reports of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (NOV 1995)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (NOV 1995)  
*(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)*
- 252.251-7000 - Ordering From Government Supply Sources (MAY 1995)

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

### (a) Definitions.

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

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

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

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

**I-3 DFARS 252.225-7008 - SUPPLIES TO BE ACCORDED DUTY- FREE ENTRY (MAR 1998)**

In accordance with paragraph (b) of the Duty-Free Entry clause of this contract, in addition to duty-free entry for all qualifying country supplies (end products and components) and all eligible end products subject to applicable trade agreements (if this contract contains the Buy American Act - Trade Agreements - Balance of Payments Program clause or the Buy American Act - North American Free Trade Agreement Implementation Act - Balance of Payments Program clause ), the following foreign end products that are neither qualifying country end products nor eligible end products under a trade agreement, and the following nonqualifying country components, are accorded duty free entry.

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

**SECTION J**

**LIST OF ATTACHMENTS**

- J-1** Attachment (1) - Statement Of Work - 5 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 2 Pages.
- J-2** Attachment (2) – Personnel Qualifications, 1 Page.
- J-3** Attachment (3) – Accounting and Appropriation Data- page. \*  
(\* To be included at time of award)

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

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

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

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 1999)**

The fill in information is as follows:

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

The small business size standard is **500**.

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

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

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

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

**FAR CLAUSE    TITLE**

52.204-6	-	Data Universal Numbering System (DUNS) Number (JUNE 1999)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)
52.215-1	-	Instructions to Offerors- Competitive Acquisition (DEC 1999)
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)
52.252-5	-	Authorized Deviations in Provisions (APR 1984)

**L-2 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)**

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

**L-3 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)**

- (a) Submission of cost or pricing data is not required.
- (b) Provide information as described in Section L-12.

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

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

**L-5 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

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

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

**L-6 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)**

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

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

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

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

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

\*\*\* Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

\*\*\*\* Corporation, individual, or other person, as appropriate.

\*\*\*\*\* Enter "none" when all data or software will be submitted without restrictions.

Date \_\_\_\_\_

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

Signature \_\_\_\_\_

(End of identification and assertion)

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

**L-7 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)**

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

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

**L-8 GOVERNMENT-FURNISHED PROPERTY**

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

**L-9 INQUIRIES CONCERNING THE RFP**

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

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

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

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

**Solicitation No. N00173-00-R-JR03**

**Closing Date:**

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

**Attn: Code 3235**

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

**L-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES .

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

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

**A. QUALIFICATIONS OF PERSONNEL**

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

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

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

**B. CORPORATE EXPERIENCE**

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

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

**C. UNDERSTANDING THE PROBLEM**

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

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

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

**L-12 VOLUME II - BUSINESS PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

**(1) COST PROPOSAL**

The Offeror shall submit a Cost/Pricing Proposal, which shall include such explanatory data as is necessary to establish that the proposed costs are reasonable, allocable, appropriate, and allowable pursuant to both Part 31 of the Federal Acquisition Regulations (FAR) and Part 231 of the Defense Federal Acquisition Regulation Supplement (DFARS). More specifically, the Cost/Pricing proposals shall provide the following information. It is requested that Offerors provide one copy of their cost proposal on a PC formatted disk that is compatible with LOTUS 123 Version 5 or Microsoft Excel Version 5.

- (a)
  - (i) Labor to include categories of labor, individuals proposed within each category; hours proposed for each individual, and hourly rate for each individual;
  - (ii) indirect or overhead rate(s);
  - (iii) any direct materials proposed;
  - (iv) any other direct costs proposed;
  - (v) general and administrative rate(s);
  - (i) facilities capital cost of money rate(s);
  - (ii) any other applicable rates;
  - (iii) other supporting costs;
  - (iv) fee
  
- (b) Any information reasonably required to explain the Offeror's estimating process, including mathematical algorithms and judgmental factors used in formulating the estimate; and any contingency assumptions employed in arriving at the proposed price.
  
- (c) **CONSULTANTS/SUBCONTRACTS** - Offerors shall describe subcontracting arrangements proposed for completing the work required herein. Subcontractors shall be identified as well as the portion of the work to be subcontracted. Documents establishing a subcontracting relationship shall be submitted with the cost proposal. Offerors may arrange for proposed subcontractors to submit supporting cost data directly to the Government. Any such submission shall not be deemed to establish privity of contract between the Government and the proposed subcontractor. With respect to independent contractors or consultants, the offeror shall document direct labor rates proposed by providing the government with copies of either letters of intent or consultant or independent contractor agreements executed between the offeror and the independent contractor. Offerors who intend to include subcontracted effort as part of their proposal are responsible for ensuring that complete information as described above is provided from each subcontractor as part of their response to this solicitation.
  
- (d) **TRAVEL ESTIMATES (FOR EVALUATION PURPOSES ONLY)** are as follows:
  - The Government estimates the travel costs for this effort to be \$10,000.00 per year or \$30,000 for the total effort.

(e) **EQUIPMENT/MATERIAL ESTIMATES** (FOR EVALUATION PURPOSES ONLY) are as follows:

As is necessary for performance under this contract, the Contractor shall provide materials (or subcontracts) necessary for performing the numerical or experimental studies. In particular, these include equipment required to perform the experimental portion of the task areas. The above are not all-inclusive and binding, but are representative of the type of materials which are anticipated for performance of this contract. The contractor shall also provide supplies for contractor personnel. Equipment and unexpended materials and supplies purchased by the contractor under this contract shall become the property of the Government at the end of the performance period. The Government estimates the costs for equipment for this effort to be \$10,000.00 per year or \$30,000 for the total effort.

## SECTION M EVALUATION FACTORS FOR AWARD

### M-1 EVALUATION

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

### M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. Technical subfactor (1) is of greater importance than technical subfactors (2) and (3). Technical subfactors (2) and (3) are of equal importance.

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

##### (1) QUALIFICATIONS OF PERSONNEL

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

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

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

##### (2) CORPORATE EXPERIENCE:

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

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

**(3) UNDERSTANDING THE PROBLEM:**

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

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

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

**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  
**RESEARCH SUPPORT IN THE AREA OF**  
**RADIATION AND ACCELERATION PHYSICS**

## **1.0 INTRODUCTION**

The Beam Physics Branch (Code 6790) of the Plasma Physics Division uses and develops theoretical, numerical and experimental techniques to solve basic physics problems. The Branch presently studies a broad range of processes including charged particle beam generation, particle beam transport, remote sensing, power beaming, advanced radiation sources and advanced accelerators. Specific research areas include nonlinear optics, laser-induced ionization, free-electron sources of radiation, x-ray sources, high-gradient accelerators, electron and ion beam transport, microwave processing of ceramics and remote sensing and detection of pollutants and hazardous materials. For many years the Branch has developed new concepts with contractor support.

In recent years there has been considerable renewed interest in the development of novel concepts and devices for the production of efficient, tunable high power coherent electromagnetic radiation and high energy, high quality particle beams. The Beam Physics Branch of NRL has been a leader in both these areas. The advanced concepts presently under study include gyrotrons, cyclotron masers and magnicon RF generators, laser and electron beam wakefield accelerators and plasma and vacuum beat wave accelerators. In addition the Branch is interested in nonlinear optics of condensed media and plasmas, laser induced ionization, generation of ultra broad band radiation for remote sensing, microwave processing and the interaction of high power laser beams with matter. The Branch is also interested in shock physics, particle beam and laser beam optics, charged particle beam transport and power beaming and their applications.

The Branch maintains several major experimental facilities and a number of smaller scale experiments. Much of the theoretical and computational research supports these experiments. The two major laser facilities are the table top terawatt ( $T^3$ ) laser and the PHAROS laser. The  $T^3$  laser currently produces a 400 fs long pulse at 1.054  $\mu$ m wavelength with a pulse energy of 1 joule and is undergoing a major upgrade. The PHAROS laser can deliver more than 1 kilojoule of laser energy in a pulse length of several nanoseconds. Construction of a second major multi-kilojoule laser facility is currently under consideration.

The Branch also has a 4.5 MeV RF electron gun that is co-located with the laser experiments. A separate facility houses several major high power microwave experiments. These include an X-band magnicon, an active pulse compression experiment, a tunable high frequency quasi-optical gyrotron, and a high average power fixed frequency gyrotron. The gyrotron sources are primarily used for materials processing applications.

## **2.0 SCOPE**

The contractor shall provide support to perform research in the areas described in Section 3. The basic research nature of the work requires the use of analytical, numerical and experimental techniques as well as computers to study the various problem areas.

## **3.0 TECHNICAL REQUIREMENTS**

The contractor shall perform analytical, numerical and experimental work in the following task areas:

### **3.1 Numerical, Analytical and Experimental Studies of Nonlinear Optical Processes:**

The contractor shall provide on-site scientific support to research programs in the area of nonlinear optics. The contractor shall develop theoretical models based on a nonlinear and spatially and temporally nonlocal refractive index for optical processes such as supercontinuum generation and ultra broad band "white light" generation utilizing high intensity laser interaction with matter. The contractor shall perform analytical and numerical analyses of the spectral and temporal characteristics of nonlinear optical processes. The contractor shall conduct experiments on these processes using high intensity lasers. The contractor shall evaluate the utility of ultra broad band sources for remote sensing and infrared countermeasures applications.

### **3.2 Numerical, Analytical and Experimental Studies of High Gradient Accelerators:**

The contractor shall perform numerical, analytical and experimental studies of cyclotron autoresonant acceleration, vacuum and plasma beat wave accelerators, electron and laser wakefield accelerators, and laser ionization and ponderomotive acceleration (LIPA). These studies shall include development of new approaches or configurations to achieve the energies required for high energy physics applications, as well as for injector applications. The contractor shall provide theoretical and experimental support for continuation of the LIPA experiments at NRL and its applications.

### **3.3 Numerical, Analytical and Experimental Studies of Free-Electron Lasers and the Laser Synchrotron X-Ray Source:**

The contractor shall perform numerical, analytical and experimental studies of free-electron lasers (FELs) employing magnetostatic or electromagnetic wigglers. The research in this area shall include studies of short pulse effects in FELs in the Compton and Raman regimes of operation and applications to power beaming. The contractor shall perform studies of the laser synchrotron source of x-rays, including analysis of ongoing experiments and evaluation of possible applications. Potential applications include micro-lithography of semiconductor wafers, ultrafast imaging of biological or chemical processes, and medical imaging applications such as mammography and angiography.

### **3.4 Numerical, Analytical and Experimental Studies for Gyrotrons, Cyclotron Masers and the Magnicon Laboratory:**

The contractor shall perform numerical, analytical and experimental studies for these Branch projects. The contractor shall develop, use or modify existing computer codes such as gyrotron codes, 3-D cavity codes capable of analyzing the  $TM/E_{nm}$  rotating modes in magnicon gain or output cavities, including self-field effects. In addition the contractor shall perform theoretical studies using steady-state and time-dependent codes to analyze the motion of electrons in electromagnetic fields in gyro-devices; electron gun simulation codes, electrode synthesis, and high power diode design codes. The contractor shall conduct experimental and theoretical studies of magnicons and gyrotrons for applications such as power beaming, RF sources for high gradient accelerators, and microwave processing of ceramics.

### **3.5 Numerical, Analytical and Experimental Studies of Fundamental Processes in Laser-Plasma Systems:**

The contractor shall perform numerical, analytical and experimental studies related to propagation, guiding and stability of intense short pulses of laser radiation in plasmas. The basic physical processes under active investigation include relativistic self-phase modulation, laser-generated ionization, partially-stripped plasma effects, Raman scattering, electromagnetically induced transparency and self-focusing. These phenomena are of interest in wakefield acceleration, x-ray lasers and harmonic generation. Intense laser beam guiding in capillary discharges are of particular interest.

### **3.6 Laser Facility Construction, Operation, and Maintenance:**

The Branch employs the high power T<sup>3</sup> and PHAROS lasers as well as a number of smaller laser systems. The contractor shall perform various tasks involved in the construction, operation, and maintenance of these laser facilities. These tasks include the maintenance and operation of existing vacuum systems, pulsed power circuits, optical systems, target chambers, and diagnostics. In addition, the contractor will be involved in the planning, construction, and testing of upgrades to existing laser systems as well as any future major new systems.

### **4.0 DELIVERABLES:**

The listed reports and other documentation are required in accordance with Exhibit (A), Contract Data Requirements List.

- 4.1 The contractor shall deliver to NRL all codes developed under this contract to use in the numerical modeling, for unrestricted use and further development by NRL. Other contractor proprietary codes may be purchased by NRL on a site license basis.
- 4.2 Monthly project cost and expenditure reports.
- 4.3 On-Site Labor Report
- 4.4 Bi-Annual Progress reports.
- 4.5 The contractor shall submit any design drawings, plans, schematics, and manuals generated.
- 4.6 Final technical report.

# CONTRACT DATA REQUIREMENTS LIST

*Form Approved*  
**OMB No. 0704-0188**

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 0002/0004/0006		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM- _____ OTHER _____																							
<b>D. SYSTEM / ITEM</b>			<b>E. CONTRACT / PR NO.</b> 67-1559-00		<b>F. CONTRACTOR</b> TBD																						
<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> MONTHLY COST REPORTS			<b>3. SUBTITLE</b>																							
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b> SOW Para 4.2		<b>6. REQUIRING OFFICE</b> Naval Rsearch Laboratory																						
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> MTHLY	<b>12. DATE OF FIRST SUBMISSION</b> 45 DAC		<b>14. DISTRIBUTION</b>																						
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> 45DAC	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Blk 16		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>a. ADDRESSEE</b></td> <td colspan="2" style="text-align: center;"><b>b. COPIES</b></td> </tr> <tr> <td colspan="2" rowspan="2"></td> <td colspan="2" style="text-align: center;"><b>Final</b></td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg Repr</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> </table>	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>				<b>Final</b>		Draft	Reg Repr			1	1			1	1	<b>15. TOTAL</b> →		1	2
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<b>16. REMARKS</b> The contractor shall submit status of funds report within 15 days of the close of each monthly reporting period. This report shall itemize labor hours by person, task, expenditures, materials, & travel costs.																											
<b>1. DATA ITEM NO.</b> A002	<b>2. TITLE OF DATA ITEM</b> PROGRESS REPORTS			<b>3. SUBTITLE</b>																							
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b> SOW Para. 4.4		<b>6. REQUIRING OFFICE</b> NRL																						
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> Semi-Annually	<b>12. DATE OF FIRST SUBMISSION</b> 180 DAC		<b>14. DISTRIBUTION</b>																						
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> 180 DAC	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> Each 180 days thereafter		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>a. ADDRESSEE</b></td> <td colspan="2" style="text-align: center;"><b>b. COPIES</b></td> </tr> <tr> <td colspan="2" rowspan="2"></td> <td colspan="2" style="text-align: center;"><b>Final</b></td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg Repr</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> </table>	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>				<b>Final</b>		Draft	Reg Repr			1	1			1	1	<b>15. TOTAL</b> →		2	1
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<b>15. TOTAL</b> →		2	1																								
<b>16. REMARKS</b> The contractor shall submit reports detailing technical progress of R&D. The report may be in the form of a letter report or technical report.																											
<b>1. DATA ITEM NO.</b> A003	<b>2. TITLE OF DATA ITEM</b> Design, Drawings, Plans, Schematics, Manuals			<b>3. SUBTITLE</b>																							
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b> SOW Para 4.5		<b>6. REQUIRING OFFICE</b> NRL																						
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>																						
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>a. ADDRESSEE</b></td> <td colspan="2" style="text-align: center;"><b>b. COPIES</b></td> </tr> <tr> <td colspan="2" rowspan="2"></td> <td colspan="2" style="text-align: center;"><b>Final</b></td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg Repr</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </table>	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>				<b>Final</b>		Draft	Reg Repr			1	1			1	1	<b>15. TOTAL</b> →		1	1
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<b>16. REMARKS</b> The contractor shall submit any design drawings, documentation, plans, schematics, and manuals developed in connection with modified hardware at least 30 days after completion of task or as requested by the COR.																											
<b>1. DATA ITEM NO.</b> A004	<b>2. TITLE OF DATA ITEM</b> FINAL REPORT			<b>3. SUBTITLE</b>																							
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b> SOW Para 4.6		<b>6. REQUIRING OFFICE</b> NRL																						
<b>7. DD 250 REQ</b> Y	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> OTIME	<b>12. DATE OF FIRST SUBMISSION</b> 90 DAC Completion		<b>14. DISTRIBUTION</b>																						
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> 90 DAC Completion	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"><b>a. ADDRESSEE</b></td> <td colspan="2" style="text-align: center;"><b>b. COPIES</b></td> </tr> <tr> <td colspan="2" rowspan="2"></td> <td colspan="2" style="text-align: center;"><b>Final</b></td> </tr> <tr> <td style="text-align: center;">Draft</td> <td style="text-align: center;">Reg Repr</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2"><b>15. TOTAL</b> →</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> </table>	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>				<b>Final</b>		Draft	Reg Repr			1	1			1	1	<b>15. TOTAL</b> →		1	2
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<b>15. TOTAL</b> →		1	2																								
<b>16. REMARKS</b> A final report shall be submitted to the COR within 90 days after contract completion.																											
<b>G. PREPARED BY</b> CODE 6790		<b>H. DATE</b> 11/23/99	<b>I. APPROVED BY</b>		<b>J. DATE</b>																						

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

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# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved  
OMB No. 0704-0188

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

<b>A. CONTRACT LINE ITEM NO.</b> 0002/0004/0006		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____					
<b>D. SYSTEM / ITEM</b>			<b>E. CONTRACT / PR NO.</b> 67-1559-00		<b>F. CONTRACTOR</b> TBD				
<b>1. DATA ITEM NO.</b> A005	<b>2. TITLE OF DATA ITEM</b> SOURCE CODES			<b>3. SUBTITLE</b>					
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b> SOW Para 4.1		<b>6. REQUIRING OFFICE</b> Naval Research Laboratory				
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ		<b>14. DISTRIBUTION</b>				
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ						
<b>16. REMARKS</b> The contractor shall deliver all codes developed under this contract to use in the numerical modeling, for unrestricted use and further development by NRL.					<b>a. ADDRESSEE</b>	<b>b. COPIES</b>			
						Draft	Final		
							Reg	Repro	
					<b>15. TOTAL</b> →				
<b>G. PREPARED BY</b> CODE 3230			<b>H. DATE</b> 02/18/00	<b>I. APPROVED BY</b>		<b>J. DATE</b>			

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

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

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 0002/0004/0006		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____ F _____			
<b>D. SYSTEM / ITEM</b>		<b>E. CONTRACT / PR NO.</b> N00173-00-R-JR03		<b>F. CONTRACTOR</b> TBD			
<b>1. DATA ITEM NO.</b> A006	<b>2. TITLE OF DATA ITEM</b> Contractor On-Site Labor Report			<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A		<b>5. CONTRACT REFERENCE</b> Para 4.3		<b>6. REQUIRING OFFICE</b> NRL CODE			
<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> MNTLY	<b>12. DATE OF FIRST SUBMISSION</b> 30 DAC	<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b> N/A	N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Blk16	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
					Draft	Final Reg Repr	
<b>16. REMARKS</b>				<b>COR</b>	0	1	0
<p>The Contractor shall deliver the On-Site Labor Report no later than five (5) days after the end of each reporting month. The report must include as a minimum the following data:</p> <p>Reporting Period: Contract Number (and Order Number, if applicable): Contract Value: Current Funding: Amount Expended in Current Period: Total Expended to Date: Date Submitted:</p> <p>Labor (including subcontractors) - 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 numbers of hours worked on each task must be shown separately.</p>				<b>AO CODE</b>	0	1	0
				<b>15. TOTAL</b> →			
<b>G. PREPARED BY</b> NRL CODE 3230		<b>H. DATE</b>		<b>I. APPROVED BY</b>		<b>J. DATE</b>	

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

## PERSONNEL QUALIFICATIONS

The following are desired personnel categories:

**SENIOR RESEARCH SCIENTIST** – Ph.D. in plasma physics, optics, or electrical engineering and at least 5 years of demonstrable related experience.

**RESEARCH SCIENTIST** – Ph.D. in plasma physics, optics, or electrical engineering.

**ENGINEER/TECHNICIAN** – M.S./B.S./B.A. in physics, optics, or electrical engineering or at least 5 years related experience.

The Technical Personnel shall be primarily located at NRL.