

SOLICITATION, OFFER AND AWARD			1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO-C9	PAGE OF PAGES 1 26
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-06-R-SC03	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 10/05/2006	6. REQUISITION/PURCHASE NUMBER 61-0336-06	
7. ISSUED BY Contracting Officer Naval Research Laboratory ATTN: CODE 3220.SC Washington, DC 20375-5326		CODE N00173	8. ADDRESS OFFER TO (If other than Item 7)			

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

SOLICITATION

9. Sealed offers in original and 2 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 Building 222, Room 115 until 4:00 pm local time 11/06/2006
(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 Christy Mitchell	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS Christy.Mitchell@nrl.navy.mil
		AREA CODE 202	NUMBER 767-0397	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 (%)	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 (Signature of Contracting Officer)	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 and development in accordance with Section C-1.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
TOTAL ESTIMATED COST PLUS FIXED FEE			\$	\$

* *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 13 April 2006 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/11onsite.htm>

C-3 SUBCONTRACTING PLAN

Subcontracting Plan _____ dated _____ is hereby incorporated by reference and made a material part of this contract.

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

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

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

**SECTION E
INSPECTION AND ACCEPTANCE**

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE**FAR CLAUSE TITLE**

52.246-8 - Inspection Of Research And Development - Cost Reimbursement (MAY 2001)
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 award through 12 months with four (4) options that will extend the period of performance for an additional 12 months each, if exercised.

(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 technical monitoring and administration of this contract. In accordance with Section E, the COR will accomplish inspection and acceptance of deliverables under this contract. 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 the statement of work, a modification must be issued in writing and signed by the Contracting Officer. Unless terminated sooner, this appointment is effective for the

period of performance of this contract including any options, if exercised. COR authority may not be redelegated. No change in COR assignment shall be made without written notice by the Contracting Officer, who will modify the contract to reflect the change of COR assignment.

*(* 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)

If there is more than one ACRN within a contract line item, the payment office will make payment using the ACRN(s) cited on the contractor's 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 "Cost 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).

If the contract contains multiple accounting classification reference numbers (ACRNs), the ACRN(s) from which payment is to be made must be cited on the voucher. If more than one ACRN is cited, the voucher must indicate the amounts to be paid from each. Information may be obtained from the COR to assist the contractor in determining the appropriate ACRNs from which payment is to be made.

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 6100

Ship To Code DODAAC: N00173 Extension 6100

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.

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

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

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

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

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

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

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

The following are identified as key personnel: *

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

Labor Category	First/M/Last Name
Senior Research Scientist/Engineer	

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 10,980 hours for the base year and 10,980 for each option if exercised, of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 915 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 Hours</u>	<u>Option I Hours</u>	<u>Option II Hours</u>	<u>Option III Hours</u>	<u>Option IV Hours</u>	<u>Total Hours</u>
Project Manager (Contractor Facility)	1680	1680	1680	1680	1680	8400
Project Manager (NRL-DC)	120	120	120	120	120	600
Senior Research Scientist or Engineer (Contractor Facility)	1800	1800	1800	1800	1800	9000
Senior Research Scientist or Engineer (NRL-DC)	1800	1800	1800	1800	1800	9000
Research Scientist or Engineer (Contractor Facility)	1800	1800	1800	1800	1800	9000
Research Scientist or Engineer (NRL-DC)	1800	1800	1800	1800	1800	9000
Technician (Contractor Facility)	1800	1800	1800	1800	1800	9000
Operations Manager (NRL-DC)	60	60	60	60	60	300
Office Manager (NRL-DC)	60	60	60	60	60	300
Budget Analyst (Contractor Facility)	60	60	60	60	60	300
Total	10980	10980	10980	10980	10980	54900

H-4 ONR 5252.235-9714 - REPORT PREPARATION (JUL 2005)

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 Z39.18-2005, 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 (if exercised)

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

Second Option (if exercised)

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

Third Option (if exercised)

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

Fourth Option (if exercised)

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. NRL will provide on-site laboratory space, personal computers, desks and furnishings, for the project manager, senior research scientist(s) or engineer(s), research scientist(s) or engineer(s), and technician working as needed.

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:

NRL will also provide personal computers for the project manager, senior research scientist(s) or engineer(s), research scientist(s) or engineer(s), and technician in the off-site contractor facility.

Rheometrics ARES Rheometer
Haake Constant Stress Rheometer
Dynastat Mark II Mechanical Spectrometer
Bohlin VOR Dynamic Mechanical Spectrometer
Bohlin VOR Low Torque Rheometer
Novocontrol Alpha Dielectric Spectrometer
IMass Time Domain Dielectric Spectrometer
HP Frequency Domain Dielectric Spectrometer
Plazek Creep Rheometer
Instron Capillary Rheometer
Instron Universal Testing Instruments (with environmental chamber)
Monsanto Fatigue Tester
Differential Scanning Calorimeter (Perkin-Elmer DSC-7 and DSC-2)
Thermogravimetric Analyzer (Perkin-Elmer TGA-7)
Thermal Mechanical Analyzer (Perkin-Elmer TMA-7)
Zeiss UEM Optical Microscope with digitizing tablet, hot stage, and video system
Brabender Plasticorder Mixer
Custom Scientific Injection Molding System
Two Roll Mill Mixer
Philips ComScan X-Ray Backscatter Imaging System
Gnomix Pressure-Volume-Temperature instrument
High pressure (1.4 GPa) dielectric measurements

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

<u>FAR CLAUSE</u>	<u>TITLE</u>
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 (JUL 2006)
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) (<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 (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 <u>30th</u>)
52.216-8	- Fixed-Fee (MAR 1997)
52.219-4	- Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JUL 2005) <input type="checkbox"/> Offeror elects to waive the evaluation preference.
52.219-6	- Notice Of Total Small-Business Set-Aside (JUN 2003) - Alternate I (OCT 1995)
52.219-8	- Utilization Of Small Business Concerns (MAY 2004)
52.219-9	- Small Business Subcontracting Plan (JUL 2005) - Alternate II (OCT 2001)
52.219-16	- Liquidated Damages-Subcontracting Plan (JAN 1999)
52.219-25	- Small Disadvantaged Business Participation Program-Disadvantaged Status And Reporting (OCT 1999)
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 " <u>0</u> "

- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-19 - Child Labor – Cooperation With Authorities And Remedies (JUN 2004)
- 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)

- 52.222-50 - Combating Trafficking In Persons (APR 2006)

- 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)
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)
(will be included if the successful offeror is not a small business or a non-profit organization)

- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (APR 2005)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) *(Applicable when the contract or task order is fully funded)*
- 52.232-22 - Limitation Of Funds (APR 1984) *(Applicable when the contract or task order is not fully funded)*
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (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)
- 52.244-2 - 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) (MAY 2004)
- 52.245-9 - Use And Charges (AUG 2005)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.247-1 - 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)
- 252.204-7000 - 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)
- 252.219-7003 - Small Business And Small Disadvantaged Business Subcontracting Plan (DoD Contracts) (APR 1996)
- 252.219-7004 - Small, Small Disadvantaged And Women-Owned Small Business Subcontracting Plan (Test Program) (JUN 1997)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7012 - Preference For Certain Domestic Commodities (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 (MAR 2006) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (OCT 2003)
 - 252.227-7000 - Non Estoppel (OCT 1966)
 - 252.227-7001 - Release Of Past Infringement (AUG 1984)
 - 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
 - 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
 - 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
 - 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
 - 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
 - 252.227-7030 - 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 (MAY 2006)
 - 252.232-7005 - Reimbursement Of Subcontractor Advance Payment—DoD Pilot Mentor-Protégé Program (SEP 2001)
 - 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)
 - 252.242-7004 - Material Management And Accounting System (NOV 2005)
 - 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)
 - 252.246-7001 - Warranty Of Data (DEC 1991)
 - 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
 - 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
 - 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

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

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

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

WARNING

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

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

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

SECTION J

LIST OF ATTACHMENTS

- 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) - DD Form 254, Contract Security Classification Specification, Ser 048-06 Dated 17 AUG 2006 - 2 Pages.
- J-3** Attachment (3) – Personnel Qualifications, 2 Pages.
- J-4** Attachment (4) – 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/repsandcerts.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

**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

- | | | |
|-----------|---|---|
| 52.204-6 | - | Data Universal Numbering System (DUNS) Number (OCT 2003) |
| 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) |
| 52.215-5 | - | Facsimile Proposals (OCT 1997) |
| | | Paragraph (c) is completed as follows: (202) 767-5896 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to Christy.Mitchell@nrl.navy.mil (primary) or Jan.Bays @.nrl.navy.mil (alternate) in either Microsoft Word (2000 or earlier) or pdf format. |
| 52.215-16 | - | Facilities Capital Cost Of Money (JUN 2003) |
| 52.219-24 | - | Small Disadvantaged Business Participation Program - Targets (OCT 2000) |
| 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) |
|---------------|---|--|

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 3220

RFP No. N00173-06-R-SC03

Closing Date: November 6, 2006 Time: 4:00pm

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 below

L-5 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-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

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 _____

- (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) The Contractor must propose the labor categories in accordance with the Level of Effort Breakdown in Section H-3. If the offeror uses labor category terminology other than that used in Section H-3, the offer must provide a matrix clearly relating their proposed labor categories to those stated.
- (2) The following information is required for evaluation of your technical/management proposal:

1. QUALIFICATIONS OF KEY PERSONNEL

(a) Provide documentation to show the proposed key personnel are technically competent to accomplish the statement of work (SOW), by providing resume's to reflect their experience and public records. Provide evidence to show the proper key personnel are available to support the effort on a full-time permanent basis. Demonstrate credibility by technical team span the total requirements of the statement of work. Provide credibility statements of the designated project manager, that he/she is qualified to address the total scope.

(b) Provide resumes for key and supporting personnel indicating technical competence as demonstrated by both general and project related experience, publication records and the degree to which they meet the requirements, set forth in the RFP and any attachments/Exhibits to the RFP. Indicate the availability of key and supporting personnel to support the effort on a permanent basis. Provide documentation that key personnel must be currently employed or documentation indicating their immediate availability. Provide a statement of commitment for Key personnel for the contract period.

2. TECHNICAL UNDERSTANDING:

(a) Provide documentation to support a complete understanding of the task requirements and understanding of the technical issues and the complex nature of the efforts required by the statement of work. Demonstrate a soundness of approach by a feasible and workable program for each task requirement. Demonstrate experience in similar research and development required by the tasks in

the statement of work, nature and scope of similar work, relevancy of prior work to proposed work and past performance on same/similar work for the Government. Demonstrate credibility, realism and logic to the proposed tasking requirements and required deliverables.

3. FACILITIES

(a) The facilities must be adequate and appropriate to support the in-house component of the proposed effort.

4. PAST PERFORMANCE INFORMATION

(a) Offerors shall submit the following information as part of their proposal. (*Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.*) List the last (5) five contracts or subcontracts completed by the offeror or predecessor companies during the past (3) three years for services similar in nature to this requirement. Include in the (5) five any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

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

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

5. MANAGEMENT/CORPORATE EXPERIENCE

(a) The offereor must demonstrate experience and maturity required to successfully manage the proposed effort.

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.

(2) SMALL BUSINESS PARTICIPATION

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (JAN 2002) with its Alternate II (OCT 2001), proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) Proposals must also include information to permit evaluation of the extent of participation of small disadvantaged business concerns in performance of the contract. See the provision at FAR 52.219-24, Small Disadvantaged Business Participation Program--Targets (OCT 2000), and the clause at 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (OCT 1999). Any targets will be incorporated into and become part of any resulting contract. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

L-14 TRAVEL, MATERIAL, SUB-CONTRACTOR AND CONSULTANT ESTIMATES (FOR EVALUATION PURPOSES ONLY)

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

The Government estimates the Material costs for this effort to be \$150,000 for the basic award and \$150,000.00 for each option period, if exercised.

The Government estimates the Travel costs for this effort to be \$35,000 for the basic award and \$35,000 for each option period, if exercised.

The Government estimates the Sub-Contractor costs for this effort to be \$200,000 for the basic award and \$200,000.00 for each option period, if exercised.

The Government estimates the Consultant costs for this effort to be \$60,000 for the basic award and \$60,000.00 for each option period, if exercised.

SECTION M EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

The contract will be awarded upon the basis of an affirmative determination that the offer received is acceptable technically, the offeror is responsible and that the price is fair and reasonable.

M-2 EVALUATION FACTORS FOR AWARD

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

M-2-1. TECHNICAL/MANAGEMENT

(1) QUALIFICATIONS OF KEY PERSONNEL

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the proposed task; the quantity and quality of the Offeror's corporate experience relevant to the proposed task; and the previous experience of the key personnel including the degree to which they meet the requirements set forth in the Personnel Qualifications.

(2) TECHNICAL UNDERSTANDING

The soundness of the Offeror's technical understanding, including the Offeror's understanding of the technical requirement.

(3) FACILITIES

Adequacy of facilities relevant to the proposed effort.

(4) PAST PERFORMANCE

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. 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).

(5) MANAGEMENT/CORPORATE EXPERIENCE

The soundness of the Offeror's project management approach for accomplishing the task.

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-2-3 SMALL BUSINESS PARTICIPATION

- (a) The extent of participation of small businesses and historically black colleges or universities and minority institutions in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.
- (b) The extent of participation of small disadvantaged business concerns in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

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

1. INTRODUCTION

The Materials Chemistry Branch (Code 6120) is responsible for the synthesis and characterization of advanced chemical materials destined for use in Navy systems. The branch also examines chemical materials in fleet service, to identify and propose solutions to problems resulting from deficiencies in such materials. The scope of the branch effort covers a variety of material concepts, from new chemicals for use as precursors in the synthesis of new polymers and chemical vapor deposition coatings, to modification of existing materials to enhance properties such as strength and environmental safety. The branch has assumed a leadership role in developing compounds which lead to significant advances for fleet use. The branch continues to produce materials and processes for polymers for lightweight composite structural elements, environmentally safe hull coatings and specialty chemicals for a variety of unique Navy needs. The branch also provides the system commands with technical support, for development and improved maintenance of certain Navy systems. Because of the diverse nature of the materials field, the branch mission is necessarily broad.

The Materials Chemistry Branch requires contractor technical activities to pursue applied research projects, and to assist the transition of discoveries which arise from basic research, to products for use in the Navy.

2. SCOPE OF WORK

This contract is to provide research in the following five tasks:

1. Reliability improvement of Sonar Dome Rubber Windows and Sonar Rubber Domes
2. Nondestructive Examination Techniques for Sonar Domes
3. New Materials for Sonar Domes
4. Material Synthesis for Nanotechnology
5. Characterization of Advanced Materials

These tasks are described separately below.

3. TASK REQUIREMENTS

Task 1: *Reliability Improvement of Sonar Dome Rubber Windows and Sonar Rubber Domes.* On most of its sonar-equipped ships, the Navy uses rubber/steel-cord structures known as sonar dome rubber windows (SDRWs), or sonar rubber domes (SRDs), to protect the sonar transducers. These structures are located either at the bow (SDRW) or on the keel (SRD) of the ship. While general performance of the current domes is good, there are cases when sea water can penetrate the structure,

causing corrosion fatigue of the steel cords, which eventually leads to failure. This has serious ramifications if the failure occurs during service at sea. For this reason the Navy, with the assistance of NRL, has set up non-destructive examination (NDE) procedures. NRL is tasked to evaluate NDE results, recommend action, develop and maintain data bases for historical analysis and statistical predictions, maintain a developmental web site where the database information may be formatted, updated and transferred to a web site maintained by a NAVSEA operation, conduct analyses of failed domes, postulate failure mechanisms and suggest changes or improvements in manufacturing procedures and design to overcome real problems or prevent potential ones.

1. The Contractor shall perform interpretation, immediate analysis, and assessment of radiographs of SDRWs, and SRDs, received from radiographic inspection contractors. This task shall be first priority, and the Contractor shall assure that qualified staff are always on hand to perform it. The Contractor shall report the results to the NRL task manager, and others designated by NRL, as quickly as possible, to bring about the necessary action to return ships to service in a timely manner.
2. In special cases of urgency to the Navy, the Contractor shall provide the NDE interpretation, as described in immediately preceding paragraph, on-site at shipyards or other Navy installations and report as above.
3. The Contractor shall prepare reports of the analysis of these radiographic inspections, as well as those from inspections of repairs and of newly manufactured domes, verification of unusual construction features with the manufacturer, and periodic summary inspection reports.
4. The Contractor shall develop radiograph interpretation procedures, standards and/or specifications for radiographs, including density, sensitivity and coverage requirements and suggest changes in procedures as experience allows.
5. The Contractor shall develop and maintain data bases which shall include cord damage, lines of compressed radial cords, subtly deflected longitudinal cords, and any additional information useful in analysis of damage growth and prediction of service life as required by NRL for sonar dome life cycle monitoring. Also included in the data base shall be other information related to dome installation and ship dome history. The data base management shall include treating radiographic files to preserve images for 20 year storage, maintaining files of radiographs and reports, providing data for statistical analysis of failures, and updating the computerized records of this information.
6. The Contractor shall maintain a developmental web site where the database information may be formatted, updated and transferred to a web site maintained by a NAVSEA organization for real time internet access by ship and Fleet program personnel.
7. The Contractor shall conduct failure analyses of damaged SDRWs/SRDs selected by NRL and compare results to radiographic data. The Contractor shall propose damage mechanisms, tests to verify such proposals, and means to correct problems.
8. The Contractor shall investigate new methods to enhance radiographic images to detect voids and corrosion, and improve radiographic evaluation of SDRWs/SRDs.

Task 2: *Advanced Nondestructive Examination Techniques for Sonar Domes.* Recent advancements in technology, resulting in new instrumentation, better means for data reduction and enhanced interpretation techniques, are revolutionizing the field of nondestructive examination. This task involves monitoring these advancements and evaluating their application to inspection of SDRWs and SRDs, with the goal of making inspections more reliable, more efficient or less costly. The task requires not only an extensive knowledge of the SDRW and SRD structures and the damage mechanisms responsible for failure, but also the ability to understand the scientific foundations of a wide variety of NDE techniques, interpret their application, and engineer approaches to fit the needs of the Navy inspection program. In addition, radiographic inspection of the new composite domes is not sufficient to correctly predict failure. Work is required to define most probable failure mechanisms and develop a nondestructive inspection approach to reliably detect damage initiation.

1. The Contractor shall monitor the NDE field, by reviewing the NDE literature and attending NDE symposia, watching for new techniques or improvements in older ones, which may be of value to the Navy for inspection of SDRWs and SRDs. The Contractor shall arrange for evaluations of any particularly promising NDE technique, and report on the desirability of initiating work to further explore the technique.
2. The Contractor shall investigate potential damage mechanisms in the developmental composite sandwich sonar domes, to identify those which will adversely affect sonar performance or lead to physical failure of the domes. The Contractor shall evaluate current (e.g., ultrasonics, microwave imaging, acoustic emission) NDE techniques as well as promising new techniques.

Task 3: *Advanced Materials for Sonar Domes.* The Navy often receives proposals for new material systems and designs for sonar domes to replace the current materials and designs. Research in this Task focuses on the evaluation of these new systems and designs, to suggest changes in approach, to establish adequate testing procedures and to assist in performing such tests. The scope of work that falls under this task is broad. Research in this task may include, but is not limited to, advanced anti-fouling and or fouling release systems for sonar domes; longevity and corrosion of the sonar dome mold; evaluation of the dome pressurization system for modernization; mechanical testing of the new composite domes; and evaluation of new sonar dome manufacturing processes and manufacturers. The task requires an extensive knowledge of sonar dome response to environmental and physical forces, knowledge of documented procedures of mechanical, chemical, and biological testing of advanced materials, and the ability to design, construct and carry out test procedures of relevant value.

1. The Contractor shall assist NRL with the evaluation of proposals for new sonar dome materials and/or designs, to determine the reasonableness for proceeding with any particular approach.
2. The Contractor shall provide support for testing new sonar dome materials and/or designs in accordance with accepted industry and Navy procedures, working with NRL, NAVSEA and other interested parties to generate a consensus for the testing approach and the interpretation of results.

Task 4: *Materials Synthesis for Nanotechnology.* The construction of nanometer scale electronic and magnetic devices is a new and critical area of miniaturization technology. Successful developments in this area will have substantial impact in any application involving computers, surveillance,

sensors, etc. The synthesis of metal nanoclusters with well defined sizes and size distribution, to assemble and interconnect them in regular arrays with nanoscale precision and hybridize such constructions with e-beam microlithography, are operations for which procedures must be developed.

1. The contractor shall develop and conduct syntheses and methods for the preparation of metal clusters with controlled sizes and size distribution, and obtain necessary characterization of the surface composition and size. These materials will be utilized in chemical self assembly operations and made available to other workers at NRL.
2. The contractor shall develop methodologies for chemical self assembly of the metal nanoclusters onto various surfaces and lithographic devices for collaborative scientific study and technical evaluation.
3. The contractor shall design and synthesize, if necessary, organic tethering agents necessary for the self assembly chemistry.

Task 5: Characterization of Advanced Materials. The Materials Chemistry Branch is responsible for the development and characterization of advanced novel chemical materials for use in naval systems. This work focuses on research and development efforts which will provide the Navy with the sophisticated materials required for next-generation structural elements, composites, coatings, etc. These materials may come from synthetic efforts or through sophisticated manufacturing processes such as drawing, blending, etc. Because the materials currently being developed are both complex and diverse in nature, an equal degree of sophistication is required for the characterization of thermal, mechanical, and chemical properties of these new materials.

1. The Contractor shall characterize polymers as required in the Tasks by selected physio-chemical test methods, including, but not limited to, molecular weight determination and structure identification by infrared, ultraviolet and visible spectroscopies, nuclear magnetic resonance, light scattering, and gel permeation chromatography.
2. The Contractor shall conduct detailed material characterization to evaluate the physical and chemical properties of other chemical materials including, but not limited to, those produced under the contract. The Contractor shall apply and interpret the results of a broad range of diagnostic methods including, but not limited to, differential scanning calorimetry (DSC), thermal gravimetric analysis (TGA), dynamic mechanical analysis (DMA), scanning electron microscopy (SEM), transmission electron microscopy (TEM), nuclear magnetic resonance (NMR), electron spin resonance (ESR), X-ray scattering, and infrared and ultraviolet spectroscopies. In addition to local testing and diagnostics, portions of the characterization program may have to be conducted at other Naval facilities, or obtained through certified commercial analytical laboratories.
3. The Contractor shall conduct, or arrange for at commercial testing laboratories, materials testing, fabrication, and flow and processing studies of materials including, but not limited to, those produced under the contract. These may include capillary rheometry, steady state and dynamic shear flow, processing, formulating, blending, and compounding.
4. The Contractor shall conduct tests according to ATSM or NRL specified testing procedures,

including, but not limited to, measuring mechanical and failure properties, and measurements of dynamic behavior. These characteristics will be determined according to NRL specified control variables of temperature, load, cycle frequencies, and specimen configuration, etc. Furthermore, electric, dielectric, and acoustic tests may be required as part of more comprehensive evaluation programs. At times it may be necessary for the Contractor to arrange for these tests at commercial testing laboratories.

5. The Contractor shall perform the following experiments on polymers and polymer-matrix composites: structural analysis, including, but not limited to, wide-angle x ray diffraction and electron microscopy; mechanical behavior, for example the generation of stress/strain curves for various modes of deformation and/or measurement of fatigue life, fracture toughness and constitutive properties; and measurement of electrical and thermal conductivity; carry out thermal degradation and fire resistance measurements.
6. The Contractor shall process new materials into films and castings using appropriate processing techniques such as casting, spin casting, thermoforming, vacuum pressing, autoclaving, and self-assembly techniques.

4. CONTRACTOR FACILITY

The Contractor shall provide a climate-controlled facility to house Government Furnished Equipment. The facility shall have a room of at least 1000 ft² with ceiling height of at least 16 feet with suitable lighting, water and electrical hook-ups for occasional laboratory use. It shall also have three separate offices with fast internet connections, and a storage room of 500 ft². Such facility shall be within 15 miles of NRL-Washington.

5. REPORTS AND DATA

The Contractor shall provide reports and data in accordance with the Contract Data Requirements List, Exhibit C (DD Form 1423).

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

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 Service 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 _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO. N00173-06-R-SC03	F. CONTRACTOR
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1. DATA ITEM NO.	2. TITLE OF DATA ITEM Monthly Status of Funds Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW section 5	6. REQUIRING OFFICE NRL code 6120
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7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY MNTLY	12. DATE OF FIRST SUBMISSION 45 DAC	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE 45 DAC	13. DATE OF SUBSEQUENT SUBMISSION 30 days	a. ADDRESSEE	b. COPIES
				Draft	Final
				Reg	Repro

16. REMARKS For each task, list employee name, hours worked over past month, current hourly rate, current month wages; also list cumulative hours and wages. Itemize travel, material, and other expenses. List overhead, G & A and total billings.	Code 6120		1	
	15. TOTAL →	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO.	2. TITLE OF DATA ITEM X-ray Radiography Reports	3. SUBTITLE
-------------------------	---	--------------------

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW section 5	6. REQUIRING OFFICE NRL code 6120
---	---	---

7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY WEKLY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
				Reg	Repro

16. REMARKS Compiled results of x-ray radiography over the past week. Include ship name and country, sonar dome type and serial number, and findings.	Code 6120		1	
	15. TOTAL →	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO.	2. TITLE OF DATA ITEM Special Progress Reports	3. SUBTITLE
-------------------------	--	--------------------

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW section 5	6. REQUIRING OFFICE NRL code 6120
---	---	---

7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
				Reg	Repro

16. REMARKS Report on completion of significant portions of a task for use as a publication or as a report to sponsor.	Code 6120		1	
	15. TOTAL →	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO.	2. TITLE OF DATA ITEM Trip Report	3. SUBTITLE
-------------------------	---	--------------------

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW section 5	6. REQUIRING OFFICE NRL code 6120
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7. DD 250 REQ N/A	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES
				Draft	Final
				Reg	Repro

16. REMARKS Short report describing who went where, what happened, findings, and pending actions. One report per trip for all travellers.	Code 6120		1	
	15. TOTAL →	0	1	0

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Code 6120	H. DATE	I. APPROVED BY	J. DATE
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**DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION**

(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)

1. CLEARANCE AND SAFEGUARDING SER: 048-06

a. FACILITY CLEARANCE REQUIRED

SECRET

b. LEVEL OF SAFEGUARDING REQUIRED

NONE

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/>	e. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD)
b. SUBCONTRACT NUMBER			b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO.
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER	DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete item 5 in all cases)</i>	
	61-0336-06			DATE (YYYYMMDD)	

4. IS THIS A FOLLOW-ON CONTRACT? YES NO. If Yes, complete the following:
Classified material received or generated under _____ *(Preceding Contract Number)* is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254? YES 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 _____

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

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

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>
N/A		N/A

8. ACTUAL PERFORMANCE

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>
N/A		N/A

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

PROVIDE TRANSPORTATION EQUIPMENT MANAGEMENT, OPERATION, AND MAINTENANCE OF TRANSPORTATIONS EQUIPMENT

10. CONTRACTOR WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
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"/>	<input checked="" type="checkbox"/>
b. RESTRICTED DATA		<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY		<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION		<input checked="" type="checkbox"/>	e. PERFORM SERVICES ONLY		<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		<input checked="" type="checkbox"/>
(2) Non-SCI		<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>
g. NATO INFORMATION		<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>	l. OTHER <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 6120

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.

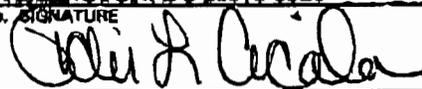
14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. Yes No
If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide 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. TITLE	c. TELEPHONE (Include Area Code)
VICKI CICALA	CONTRACTING OFFICER, SECURITY	(202) 767-2240/2576

d. ADDRESS (Include Zip Code)
NAVAL RESEARCH LABORATORY
4555 OVERLOOK AVE. SW
WASHINGTON, DC 20375-5320

e. SIGNATURE


17. **REQUIRED DISTRIBUTION**

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1226.2, 6102, 6120

PERSONNEL QUALIFICATIONS

The tasks often require access by contractor personnel to Navy facilities such as Naval Stations, shipyards and ships. Personnel proposed by Contractor must have, or be able to get, a security clearance at Secret level.

The minimum qualifications for the personnel are:

1. *Project Manager*. BS or a minimum of 5 years experience in engineering or physical science. Must have a minimum of ten years of experience directly related to Navy sonar domes. Must have a record of publications and a demonstrated ability to communicate results of research to the scientific community by means of publications and presentations or by internal reports. Must have demonstrated broad capabilities and accomplishments in materials science, chemistry and/or engineering. Must have demonstrated the ability to manage technical programs, including, but not limited to, managing personnel, managing budgets, balancing priorities, and communicating problems and results to government sponsors. Must have shown ability to work independently, as well as the ability to work cooperatively with other independent government contractors. The person that fulfills this category is designated as key personnel.
2. *Senior Research Scientist or Engineer*. BS or a minimum of 5 years experience in engineering, materials science, or physical science. Must have a minimum of three to five years of related experience, or an advanced degree. Must have a demonstrated ability to communicate results of research to the scientific community by means of publications and presentations or by internal reports. Must have demonstrated broad capabilities and accomplishments in materials science, chemistry and/or engineering. Must have capability to work independently, as well as the ability to work with other researchers. The person that fulfills this category is designated as key personnel.
3. *Research Scientist or Engineer*. BS or a minimum of 5 years experience in a physical science or an appropriate field of engineering (e.g., chemical, mechanical, or materials). Must have a minimum of one to three years of related experience relevant to SOW. Must have demonstrated capabilities and accomplishments in materials science, chemistry and/or engineering. Must have capability to work independently, as well as the ability to work with other researchers.
4. *Technician*. Technical training. Experience in basic mechanical or electrical shop procedures and implementing prescribed test procedures. Ability to suggest and implement improvements in tests and procedures.
5. *Operations Manager*. BS or a minimum of 5 years experience in engineering or physical science. Must have a minimum of ten years of experience with research and development (R&D) programs with at least five years experience with Navy R&D. Contractual knowledge of Navy policies and procedures; such knowledge should include, but not limited to, contractual compliance, fiscal responsibility, safety and security, intellectual property and technology transfer. Experience in recruiting and supervising the work of scientists, technical personnel, and administrative support personnel.

6. *Office Manager*. Associate degree, or a minimum of 3 years training. Appropriate administrative or clerical experience directly relevant to support scientific and engineering research efforts.
7. *Budget Analyst*. Technical training. Experience in analytical methodologies, or a minimum of 2 years training or experience related to decision-making analysis, program development/analysis/control, or database analysis.