

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO-C9	PAGE OF PAGES 1 29
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-06-R-SK08	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED 1/11/07	6. REQUISITION/PURCHASE NUMBER 61-0211-06	
7. ISSUED BY Naval Research Laboratory Contracting Division, Code 3220.SK 4555 Overlook Ave. SW Washington DC 20375-5326		CODE N00173	8. ADDRESS OFFER TO (If other than Item 7)		

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

**SOLICITATION**

9. Sealed offers in original and 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Bldg. 222, Rm. 115 until 4:00 pm local time 2/21/2007  
(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 Susan Kelly	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS sue.kelly@nrl.navy.mil
		AREA CODE 202	NUMBER 767-6815	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 <small>(See Section I, Clause No. 52.232-8)</small>	10 CALENDAR DAYS (%)	20 CALENDAR DAYS (%)	30 CALENDAR DAYS (%)	CALENDAR DAYS (%)
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14. ACKNOWLEDGMENT OF AMENDMENTS <small>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</small>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <small>(Type or print)</small>	
15B. TELEPHONE NUMBER	AREA CODE	NUMBER	EXT.	17. SIGNATURE
15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.			<input type="checkbox"/>	18. OFFER DATE

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

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

**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
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Basic Award – Year 1

		Estimated Cost	Fixed Fee	Est. CPFF
0001	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.1.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

		Estimated Cost	Fixed Fee	Est. CPFF
0003	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.2.	\$	\$	\$
0004	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

		Estimated Cost	Fixed Fee	Est. CPFF
0005	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.3.	\$	\$	\$
0006	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

		<b>Estimated Cost</b>	<b>Fixed Fee</b>	<b>Est. CPFF</b>
0007	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.4.	\$	\$	\$
0008	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

		<b>Estimated Cost</b>	<b>Fixed Fee</b>	<b>Est. CPFF</b>
0009	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.5.1	\$	\$	\$
0010	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

		<b>Estimated Cost</b>	<b>Fixed Fee</b>	<b>Est. CPFF</b>
0011	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.5.2.	\$	\$	\$
0012	Data in accordance with Exhibit A (DD 1423)	*NSP	*NSP	*NSP
	<b>TOTAL ESTIMATED COST PLUS FIXED FEE:</b>			\$

\* Not Separately Priced

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

## SECTION C DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

### C-1 STATEMENT OF WORK

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

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

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

**SECTION E  
INSPECTION AND ACCEPTANCE**

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

**FAR CLAUSE    TITLE**

- 52.246-5    -    Inspection Of Services - Cost Reimbursement (APR 1984)  
52.246-9    -    Inspection Of Research And Development (Short Form) (APR 1984)

**DFARS CLAUSE    TITLE**

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

**E-2 INSPECTION AND ACCEPTANCE**

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

**SECTION F  
DELIVERIES OR PERFORMANCE**

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

**FAR CLAUSE    TITLE**

- 52.242-15    -    Stop-Work Order (AUG 1989) - Alternate I (APR 1984)  
52.247-34    -    F.O.B. Destination (NOV 1991)

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

(a) The term of this contract is from date of contract award through twelve (12) months thereafter, with four (4) options each extending the period of performance by an additional twelve months, if exercised.

(b) The principle place of performance of this contract shall be at the NRL, Key West Facility and at NRL DC.

**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 SUBCONTRACTORS/CONSULTANTS**

- (a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).
- (b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

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

#### **G-5 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-6 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

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

**G-7 PAYMENT AND VOUCHER INSTRUCTIONS**

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

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

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

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

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

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

Issue By DODAAC: N00173

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

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

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

Service Acceptor DODAAC: N00173 Extension 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. The contractor shall continue to submit first vouchers to the cognizant auditor. The final voucher shall be submitted to the Administrative Contracting Officer.

**SECTION H  
SPECIAL CONTRACT REQUIREMENTS**

**H-1 TYPE OF CONTRACT**

This is a \*

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

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

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

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

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

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

The following are identified as key personnel: \*

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

Labor Category	First/M/Last Name
Senior Project Manager	
Sr Project Engineer/Scientist	
Project Engineer/Scientist	

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

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 498,230 total hours of direct labor for the base award, 499,230 hours for Option 1, 501,130 hours for Option 2, 485,330 hours for Option 3, and 485,430 hours for Option 4, of direct labor for each option period, if exercised, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 41,519 hours per month for the base award, 41,602 hours for Option 1, 41,761 hours for Option 2, 40,444 hours for Option 3, and 40,453 hours for Option 4, if exercised. 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:

SOW Paragraph 3.1:

Labor Category	Basic Award, Year 1 Hours	Option 1, Year 2 Hours	Option 2, Year 3 Hours	Option 3, Year 4 Hours	Option 4, Year 5 Hours	Total Hours
Sr. Manager	1000	1000	1000	1000	1000	5000
Sr. Engineer/Scientist	5000	5000	5000	5000	5000	25000
Engineer/Scientist	5000	5000	5000	5000	5000	25000
Technician	500	500	500	500	500	2500
Consultant	2000	2000	2000	2000	2000	10000
Student	2000	2000	2000	2000	2000	10000
Technical Assistant	1000	1000	1000	1000	1000	5000
Subcontractor	6000	6200	6500	6500	6000	31200
TOTAL	21500	21700	22000	22000	21500	113700

SOW Paragraph 3.2:

Labor Category	Basic Award, Year 1 Hours	Option 1, Year 2 Hours	Option 2, Year 3 Hours	Option 3, Year 4 Hours	Option 4, Year 5 Hours	Total Hours
Sr. Manager	2200	2200	2200	2200	2200	11000
Sr. Engineer/Scientist	6000	6000	6000	6000	6000	30000
Engineer/Scientist	6000	6000	6000	6000	6000	30000
Technician	2500	2500	2500	2500	2500	12500
Consultant	2000	2000	2000	2000	2000	10000
Student	1000	1000	1000	1000	1000	5000
Technical Assistant	1000	1000	1000	1000	1000	5000
Subcontractor	15000	15550	16200	16200	16500	79450
TOTAL	35700	36250	36900	36900	37200	182950

## SOW Paragraph 3.3:

Labor Category	Basic Award, Year 1 Hours	Option 1, Year 2 Hours	Option 2, Year 3 Hours	Option 3, Year 4 Hours	Option 4, Year 5 Hours	Total Hours
Sr. Manager	2200	2200	2200	2200	2200	11000
Sr. Engineer/Scientist	6000	6000	6000	6000	6000	30000
Engineer/Scientist	6000	6000	6000	6000	6000	30000
Technician	3000	2500	2500	2500	2500	13000
Consultant	500	500	500	500	500	2500
Student	1000	1000	1000	1000	1000	5000
Technical Assistant	1000	1000	1000	1000	1000	5000
Subcontractor	15000	15550	16200	16200	16500	79450
TOTAL	34700	34750	35400	35400	35700	175950

## SOW Paragraph 3.4:

Labor Category	Basic Award, Year 1 Hours	Option 1, Year 2 Hours	Option 2, Year 3 Hours	Option 3, Year 4 Hours	Option 4, Year 5 Hours	Total Hours
Sr. Manager	2000	2000	2000	2000	2000	10000
Sr. Engineer/Scientist	3000	3000	3000	3000	3000	15000
Engineer/Scientist	3000	3000	3000	3000	3000	15000
Technician	0	0	0	0	0	0
Consultant	2000	2000	2000	2000	2000	10000
Student	0	0	0	0	0	0
Technical Assistant	1000	1000	1000	1000	1000	5000
Subcontractor	6000	6200	6500	6000	6000	30700
TOTAL	17000	17200	17500	17000	17000	85700



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

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

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

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

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

**H-6 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.

**H-7 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:

**Option 1 – Year 2**

	<b>Estimated Cost</b>	<b>Fixed Fee</b>	<b>Est. CPFF</b>
<b>SOW Paragraph 3.1</b>			
0001	\$	\$	\$
0002	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	<b>Estimated Cost</b>	<b>Fixed Fee</b>	<b>Est. CPFF</b>
<b>SOW Paragraph 3.2</b>			
0003	\$	\$	\$
0004	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.3</b>			
0005	\$	\$	\$
0006	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.4</b>			
0007	\$	\$	\$
0008	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.1</b>			
0009	\$	\$	\$
0010	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.2</b>			
0011	\$	\$	\$
0012	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

**Option 2 – Year 3**

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.1</b>			
0001	\$	\$	\$
0002	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.2</b>			
0003	\$	\$	\$
0004	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.3</b>			
0005	\$	\$	\$
0006	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.4</b>			
0007	\$	\$	\$
0008	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.1</b>			
0009	\$	\$	\$
0010	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.2</b>			
0011	\$	\$	\$
0012	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

#### Option 3 – Year 4

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.1</b>			
0001	\$	\$	\$
0002	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.2</b>			
0003	\$	\$	\$
0004	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.3</b>			
0005	\$	\$	\$
0006	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.4</b>			
0007	\$	\$	\$
0008	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.1</b>			
0009	\$	\$	\$
0010	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.2</b>			
0011	\$	\$	\$
0012	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

**Option 4 – Year 5**

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.1</b>			
0001	\$	\$	\$
0002	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.2</b>			
0003	\$	\$	\$
0004	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.3</b>			
0005	\$	\$	\$
0006	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.4</b>			
0007	\$	\$	\$
0008	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.1</b>			
0009	\$	\$	\$
0010	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

	Estimated Cost	Fixed Fee	Est. CPFF
<b>SOW Paragraph 3.5.2</b>			
0011	\$	\$	\$
0012	*NSP	*NSP	*NSP
<b>Total CPFF:</b>	\$	\$	\$

## H-8 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.

## 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)
52.209-6	- 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)
- 52.215-15 - Pension Adjustments And Asset Reversions (OCT 2004)
- 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 30<sup>th</sup>)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JUL 2005)  Offeror elects to waive the evaluation preference.
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-9 - Small Business Subcontracting Plan (SEP 2006) - Alternate II (OCT 2001)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 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 "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-39 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.222-50 - Combating Trafficking In Persons (APR 2006)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 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)
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-17 - Interest (JUN 1996)
- 52.232-20 - Limitation Of Cost (APR 1984)
- 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)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.233-4 - Applicable Law For Breach Of Contract Claim (OCT 2004)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 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)
- 52.244-6 - 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)
- 52.246-23 - 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)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Alternate A (NOV 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 2005)
- 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)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.232-7003 - Electronic Submission Of Payment Requests (MAY 2006)
- 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)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (NOV 2005)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.251-7000 - 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 - 9 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 1 Page.
- J-2** Attachment (2) – Personnel Qualifications, 4 Pages.
- J-3** Attachment (3) - Estimated Travel and Materials, 1 Page
- J-4** Attachment (4) – DD 254, Contract Security Classification Specification, 2 Pages.
- J-5** Attachment (5) – Accounting and Appropriation Data- 1 page. \*
- (\* To be included at time of award)

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

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

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

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

Use Contract Representations and Certifications: A

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

The fill in information is as follows:

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

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

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

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

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

**FAR CLAUSE TITLE**

- 52.214-34 - Submission Of Offers In The English Language (APR 1991)
- 52.214-35 - Submission Of Offers In U.S. Currency (APR 1991)
- 52.215-1 - Instructions To Offerors- Competitive Acquisition (JAN 2004)
- 52.215-5 - 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 sue.kelly@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.SK**  
**RFP No. N00173-06-R-SK08      Closing Date: 21 Feb 2007      Time: 4:00 PM**  
**Naval Research Laboratory**  
**4555 Overlook Avenue, S.W.**  
**Washington, D.C. 20375**

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will

be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/aboutdc.htm>

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

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

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

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

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described in Section L-13, Instructions for Submission and Information Required to Evaluate Proposals.

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

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

**L-6 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

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

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

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

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—
  - (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

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

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

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

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

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

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

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

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

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

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

(End of identification and assertion)

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

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

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

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

#### **L-9 GOVERNMENT-FURNISHED PROPERTY**

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

#### **L-10 INQUIRIES CONCERNING THE RFP**

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

#### **L-11 PROPOSAL ORGANIZATION**

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

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

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

REQUIRED COPIES: 1 ORIGINAL AND 4 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 offeror 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:

### **(A) UNDERSTANDING OF THE REQUIREMENT**

Provide a narrative description which clearly shows full understanding of the science, engineering and support tasks outlined and offeror commitment to provide services to the customer. Authority of the Project Manager to commit the resources of the company should be detailed. Proposal should detail an understanding of the importance of materials/corrosion related basic/applied scientific research, engineering, facility support and familiarity of the processes of Navy technology development, fleet demonstration and transition.

### **(B) QUALIFICATION OF PROJECT PERSONNEL**

Provide convincing proof that it has or has the ability to obtain personnel/teaming with relevant experience in the technical areas described in the Personnel Qualifications. The proposal should detail the commitment of key personnel to ensuring continuation of RDT&E activity/support, facility operations and fleet projects. The proposal should include resumes of key personnel with education level, and experience both general and project related. The proposal shall detail the availability of sufficient key project professional and technical personnel by the prime contractor and proposed subcontractors.

### **(C) COMPANY EXPERIENCE**

The proposer should provide a narrative description of company experience on projects with technical tasks identical or similar to those required in the Statement of Work. This description should clearly show the relationship between the company's experience and the particular tasks required and provide details such as project descriptions, complexity, and identification of the customers where work was performed. They should provide information on the size of relevant projects and their demonstrated success in providing adequate service, especially for Navy related efforts. They should provide a detailed explanation with itemized and specific steps used

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

REQUIRED COPIES: 1 ORIGINAL AND 4 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 Offerors 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.

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

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

The Government Estimated Travel per year is shown in Attachment 3 to this solicitation.

The Government estimates the material costs for this effort per year is shown in Attachment 3 to this solicitation.

**L-15 MULTIPLE AWARDS**

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

## SECTION M EVALUATION FACTORS FOR AWARD

### M-1 EVALUATION

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

### M-2 EVALUATION FACTORS FOR AWARD

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

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

- (1) UNDERSTANDING OF THE REQUIREMENT: The proposal will be evaluated on the offeror's/team demonstrated understanding of the tasks involved and the level of support required to maintain/provide continued operations.
- (2) QUALIFICATION OF PROJECT PERSONNEL: The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with : (a) the appropriate qualifications to perform the level of work described in the SOW; (b) actual relevant experience in the technical fields required and experience with the size and complexity of equipment and systems covered in this requirement; (c) and the ability to correctly assess the critical components of a system/facility and make alterations or changes to sub-components as needed to allow for continued operations.
- (3) COMPANY EXPERIENCE: The proposal will be evaluated on the offeror's demonstrated experience in performing projects requiring technical effort which is identical or similar to the effort required by the Statement of Work.

#### 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.

**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

### 1.0 - INTRODUCTION

The Naval Research Laboratory (NRL), Center for Corrosion Science and Engineering (CCSE), is responsible for a wide spectrum of RDT& E programs in the areas of marine corrosion, materials, engineering, electrochemistry, coatings, biofouling remediation and environmental effects as related to the Navy surface ships, submarines, marine structures, aircraft, shore facilities and associated government use in general. The CCSE performs laboratory R & D programs and also provides fleet T & E support at command, intermediate maintenance and fleet field sites throughout the US. The primary RDT&E efforts are performed at the NRL Washington, DC site and the NRL Marine Corrosion facility located in Key West, FL. Field activities contribute to the RDT & E efforts at sites including, but not limited to: San Diego, CA, Norfolk, VA, Puget Sound, WA, Pearl Harbor, HI, Singapore, and NASA Kennedy Space Center. Field activities and personnel assignments can include all applicable DoD sites and associated programmatic locations, as defined by program requirements. Contractor shall be able to provide on-site support, off-site support and permanent personnel assignment if necessary, as requested by the customer and in the best interest of the Navy and contractor.

### 2.0 - SCOPE

The scope of projects associated with the CCSE cover a broad range of RDT&E due to the multi-disciplinary interaction of marine engineered systems with the natural environment. At the basic science level, programs include the study of corrosion mechanisms, electrochemical systems, materials degradation and failure analysis, as related to marine physio-chemistry, protection and associated marine systems. At the applied levels, the CCSE performs detailed engineering design, development and evaluation of systems as related to bio-remediation, cathodic protection, marine coatings, propulsion, materials performance and fuel cell technology. The emphasis revolves around the design and implementation of improved technology for legacy and next generation Naval platforms, but also closely explores the needs of life-cycle extension, improved service life, affordability, condition based maintenance and new technology development and implementation.

The contractor shall provide four basic aspects of effort at the laboratory, field and facility levels:

- 2.1. **RDT&E:** Development of scientific and research oriented test plans, perform analyses, conduct basic/applied studies and conduct RDT& E projects to contribute to the overall objectives of the Center's programs.
- 2.2. **Engineering Support:** Perform engineering design, fabrication, installation and evaluation of equipment, techniques and platform based demonstrations as part of developmental programs, proof of concept and fleet technology transition goals.
- 2.3. **Logistical and Technical Programmatic Support:** Provide logistics support, demonstration coordination, field activity support, facility development and experimental fabrication. Provide programmatic assistance in program presentation, meeting organization, and program promotion while participating in command interaction, professional societies and fleet demonstrations in support of the Center's interaction with the fleet, Navy Systems Commands (SYSCOMS), Office of the Secretary of Defense (OSD) and other government agencies.
- 2.4. **Communication and Information Technology Support:** Provide expertise and system management of information technology (IT), computer operations, computer setup, server operation, website design/maintenance, Labview/Honeywell process control software, electronic instrumentation software/programming, wireless communications, computational software, 3-dimensional imaging, image analysis and virtual space, in support of the Center's activities in

Washington DC and Key West, FL and for interaction with the NRL field activities, fleet demonstrations and related programmatic needs/support.

- 2.5. **Other Efforts:** Provide expertise associated with fuel chemistry, material fire analysis and support for coatings preservation efforts at shipyards.

### **3.0 - TECHNICAL REQUIREMENTS**

The contractor shall provide labor, services, on-site management, reports and logistics as needed to accomplish task objectives. The contractor shall manage and execute each task for responsive, efficient and responsible performance. The contractor shall submit labor, financial and technical status reports and information electronically, where feasible. Reporting must be compliant with the attached contract data requirements (DD 1423). The contractor shall also provide special, non-periodic reports responsive to programmatic requirements. The contractor's efforts shall correspond to the following technical requirement subtask areas:

#### **3.1 Scientific RDT&E Support:**

The contractor shall support the CCSE scientific and analytical disciplines in the technical areas of corrosion science, marine coatings, failure analysis, environmental control/remediation, marine engineering, fuel cells/power systems, electrochemistry, analytical chemistry and materials characterization/degradation.

The contractor shall: 1) conduct fundamental/applied research, scientific study and experimentation directed toward advancing the state-of-the-art in the disciplines, 2) increase scientific knowledge/understanding, concept formulation, assessment of system and subsystem requirements, 3) development, analysis and evaluation of concepts, results, technologies, systems and subsystems, and development of operational concepts and 4) provide recommendations, guidance and technical expertise to address programs of Navy interest. Support may be, but shall not be limited to: a) development of scientific and research oriented test plans, b) provide experimental setup/design support, c) monitor/analyze experimental data and equipment, d) performance, calibration, overhaul and fabrication of experiments, e) provide software writing/IT support and f) compile/report results.

#### **3.1.1 Corrosion Science/Electrochemistry:**

- 3.1.1.1 The contractor shall develop efficient test research methodologies toward determining the crevice corrosion mechanism in high strength active-passive metals, particularly nickel based alloys. The contractor shall design experiments and test cells to be used in both controlled laboratory bench research and in natural seawater exposure studies. The research must be conducted to evaluate such variables including, but not limited to, temperature, ennoblization, crevice geometry, biofilms, heat treatments, crevice solution chemistry, and metallurgical and compositional variations. The contractor shall identify and evaluate countermeasures to mitigate existing crevice corrosion problems.
- 3.1.1.2 The contractor shall define and develop methodologies and measurement techniques concerning electrochemical measurement of electrical isolation in piping systems and related components.
- 3.1.1.3 The contractor shall define the electrochemical parameters and evaluate chemicals in support of descaling, fouling removal and chemical cleaning efforts for shipboard piping and condensers.
- 3.1.1.4 The contractor shall perform RDT&E concerning the biological fouling and mitigation of shipboard piping/condenser systems. These techniques may include: chlorination, filtration, ozonation, seawater deaeration, and chemical removal.
- 3.1.1.5 The contractor shall perform materials evaluations concerning corrosion and degradation effects of materials. These experiments will include: crevice corrosion, galvanic corrosion, cathodic

disbondment, electrical isolation and failure analysis. Use of analytical instrumentation such as Alternating Current (AC) Impedance, Scanning/Transmission Electron microscopy (SEM/TEM), Energy Dispersive XRAY Analysis (EDAX) and Scanning Ion Microscopy (SIMS) will be required.

- 3.1.1.6 The contractor shall perform materials evaluations in support of amorphous materials, new alloys, inhibitors, plating, fabrication technology, surface treatment, annealing and machining operations.
- 3.1.1.7 The contractor shall perform experiments to design and evaluate cathodic protection systems for corrosion protection and signature control. This effort may include physical scale modeling, sacrificial anode test, equipment specification, performance monitoring, assessments, field measurements of platforms and corrosion sensor development for hull and tank.

### **3.1.2 Marine Coatings**

- 3.1.2.1 The contractor shall perform evaluations on anti-foulant coatings to determine relative effectiveness, viability of coatings and organism properties. These tests will include coatings application, evaluation, assessment, quantification/identification of fouling organisms, compilation and reporting of results.
- 3.1.2.2 The contractor shall perform evaluations on ballast tank, fuel, Combined Holding Tank (CHT) and potable water coatings to determine relative effectiveness, viability of coatings and life-cycle performance. These tests shall include coatings application, evaluation, assessment, quantification/identification of physical properties, compilation and reporting of results. Testing of all coatings may also include the use of environmental test chambers (QUV, Weatherometer/others) atmospheric testing to American Society for Testing of Materials (ASTM)/Navy standards (MIL-P-23236C) stds. All coatings systems may be evaluated.
- 3.1.2.3 The contractor shall perform evaluations on topside, underwater, interior, rudder, propeller, non-skid and other marine coatings technology to determine relative effectiveness, properties and performance. These tests shall include coatings application, evaluation, assessment, quantification, burn/fire assessment and measurement of physical properties, compilation and reporting of results. Testing of all coatings may also include the use of environmental test chambers (QUV™, Weatherometer/others) atmospheric testing to ASTM/Navy applicable standards. All coatings systems may be evaluated.
- 3.1.2.4 The contractor shall support the ability to formulate and design new coatings systems, based on organic and inorganic chemical principles and resin technology.
- 3.1.2.5 The contractor shall provide coatings expertise to support basic science experiments, application technology, surface preparation at both laboratory and field demonstrations. If necessary the contractor can team to provide necessary support operations. This effort will support S & T related to specification, qualification and life-cycle performance evaluation of coatings and materials.

### **3.1.3 Aquatic Nuisance Species**

- 3.1.3.1 The contractor shall provide micro-biological and seawater physio-chemical experiments in support of large scale Aquatic Nuisance Species system. These efforts include sampling procedures, culture growth and sustainment in large quantities, injection, biological assay, coulter counting, optical microscopy, statistical analysis,

### **3.1.4 Fuel Cell/Alternate Power Sources**

- 3.1.4.1 The contractor shall perform experiments on fuel cell and fuel cell components in support of alternative powers systems development. These efforts may include electrochemical examination of catalysts, membranes and electrodes.

3.1.4.2 The contractor shall perform experiments concerning energy storage systems, power control, interfaces and deployment in support of Autonomous Underwater Vehicles (AUV), Unmanned Underwater Vehicle (UUV) and other systems of interest.

### **3.1.5 Materials**

3.1.5.1 The contractor shall conduct experiments to determine the degradation, suitability and functionality of marine materials for use in the ocean environment. The materials may be alloys, composites, amorphous materials, nano-materials, polymers, coatings, films, oxide layers, conversion coatings, organic, biological and electrochemical in nature. Experiments may utilize analytical instrumentation, such as: Thermo-gravimetric analysis (TGA), Infrared-vis spectroscopy, physical properties, Transmission Electron Microscopy (TEM), Scanning Electron Microscopy (SEM), Scanning Auger Microscopy (SAM), DC Potentiostats, AC impedance, Kelvin Probe, High Pressure Liquid Chromatography (HPLC), metallographic preparation, pH, dissolved oxygen, Oxidation/reduction probe, dataloggers, electric field sensors, magnetic hall effect cells, chlorination/halogenation and others as appropriate.

3.1.5.2 The contractor shall conduct experiments to determine the physical characteristics, failure mode, strength, stress properties, stress related corrosion, environmental cracking properties, degradation, suitability and functionality of marine materials, fasteners and components for use in the ocean environment. The materials may be alloys, composites, amorphous materials, nano-materials, polymers, coatings, films, oxide layers, conversion coatings, organic, biological and electrochemical in nature. Experiments may utilize analytical instrumentation, such as: potentiostats/galvanostat, power supplies, Instron, slow strain instrumentation, step load, Stress corrosion cracking (SCC) specimens, pure bend, sensors, magnetic hall effect cells and others as appropriate.

3.1.5.3 The contractor shall conduct materials studies to interface with ongoing corrosion, coatings, chlorination, bioremediation/mitigation, aquatic nuisance species, heat budget control, assessment, cathodic protection and other RDT & E programs.

## **3.2 Engineering Support:**

The Contractor shall support the CCSE engineering design, fabrication, installation and evaluation of equipment, techniques and platform based demonstrations as part of developmental programs, proof of concept and fleet technology transition goals.

The contractor shall: 1) conduct on-site engineering design, development and operation of applied test stands, product form, small and large scale test systems, exposure site, test chambers, ballast tanks, test flow loops, immersion tanks, power storage and fabrication/design as required, 2) design, procure and fabricate unique scientific components, test cells, chambers, products for fleet implementation, mock-ups, product demonstration and products/equipment for off-site use, 3) provide off-site demonstration, demonstration support, fleet implementation, preservation team support and commercial development of products identified by government agent, 4) support facility engineering efforts, machine shop, prototyping, specification, proof-of-concept, calibration, tooling and qualification testing.

**3.2.1 Engineering:** The contractor shall conduct on-site engineering design, development and operation of applied test stands, product form, small and large scale test systems, exposure site, test chambers, ballast tanks, test flow loops, immersion tanks, power storage and fabrication/design as required for prototyping, specification, proof-of-concept, calibration, tooling and qualification testing. These tasks may also include logistical support associated with tasking and assistance with presentation, meetings and program development. Off-site engineering may include: design, procurement and fabrication of unique scientific components, test cells, chambers, products for fleet implementation, mock-ups, product demonstration and

products/equipment for off-site use. Engineering support is anticipated for, but not limited to, the following subtasks:

- 3.2.1.1 Cathodic Disbondment: The contractor shall design, construct and maintain cathodic disbondment test tanks for marine coating examination.
- 3.2.1.2 Facility Support: The contractor shall support facility engineering efforts including maintaining the on-site machine shop equipment, standard tool inventories and development necessary to facilitate engineering efforts.
- 3.2.1.3 Subject matter experts: The contractor shall identify and retain services of subject matter experts as program needs arise with specializations including, but not limited to: power systems, marine coatings, materials, corrosion control, and Naval material failure analysis. The contractor should also be familiar with appropriate Navy specifications.
- 3.2.1.4 Biofouling remediation system: The contractor shall engineer demonstration chlorination products for biofouling control for surface ships, submarines and shore facilities.
- 3.2.1.5 Corrosion sensor implementation: The contractor shall engineer demonstration corrosion sensor and datalogging equipment for surface ship and submarine use.
- 3.2.1.6 Cathodic Protection: The contractor shall have the expertise to engineer and design cathodic protection systems, evaluate cathodic protection performance and determine coatings performance evaluations for shore facilities, surface ships and submarine use in accordance with Naval Standard Technical Manual Chapter 633 and American Bureau of Shipping (ABS) Naval Rules is necessary.

### **3.2.2 Demonstration Engineering Support:**

The contractor shall provide off-site demonstration, demonstration support, fleet implementation, preservation team support and commercial development of products identified by government agent. Demonstration engineering support is anticipated for, but not limited to, the following subtasks:

- 3.2.2.1 Aquatic Nuisance Species (ANS) technology demonstrations: The contractor shall provide engineering support for ANS remediation technology testing under the Environmental Testing Vehicle (ETV) protocol governing the operation of the ANS testing facility at the Key West Laboratory. This may include system operation, repair, microbiological efforts, technology insertion and development of portable laboratories, test methods and affiliated ANS support, not limited to: sponsor meetings, software development, IT insertion, logistics support, seawater management, biological assays, and involvement with other test site development.
- 3.2.2.2 Inspection Technology demonstrations: The contractor shall provide engineering support/logistics for the demonstration of shipboard inspection technologies including, but not limited to Insertable Stalk Inspection System (ISIS) coating and remote pipe inspection, and shipboard piping electrical isolation.
- 3.2.2.3 Amorphous Materials: The contractor shall utilize amorphous materials/flame spray system technology and conduct engineering studies/ship demonstration to support corrosion control, coatings design and high performance materials efforts.

### **3.2.3 Emerging Engineering Solutions:** The contractor shall design, procure and fabricate unique engineering systems to address legacy and next generation Naval platforms. Emerging engineering solution support is anticipated for, but not limited to, the following subtasks:

- 3.2.3.1 Corrosion sensor development: The contractor shall develop electrochemical corrosion sensors for incorporation into new and legacy naval vessels.
- 3.2.3.2 Materials compatibility: The contractor shall perform engineering studies on the compatibility of marine materials exposed to extreme environmental conditions including but not limited to heat, pressure, chemical exposure and vibration.

- 3.2.3.3 Technical software support: The contractor shall develop database software, Graphical User Interface (GUI) and materials archiving software related to ONR/NAVSEA/DARPA engineering programs
- 3.2.3.4 The contractor shall perform engineering evaluations on tank, topside, underwater, interior, rudder, propeller, non-skid and other marine coatings technology to determine relative effectiveness, properties and performance. These tests may include laboratory and field coatings application/trial, evaluation, assessment, quantification, burn/fire assessment and measurement of physical properties, compilation and reporting of results. All coatings systems may be evaluated.

### **3.3 Logistical and Technical Programmatic Support**

The Contractor shall provide logistical and technical program support for CCSE RDT&E (Sec 3.1) and Engineering (Sec 3.2) programs including, but not limited to, marine coatings, cathodic protection, marine materials, test and detection equipment, alternative power sources, ANS and biofouling mitigation systems, and emerging engineering solutions to facilitate CCSE Naval and DoD programs.

- 3.3.1 Logistics Support:** The contractor shall provide logistics support for CCSE programs including but not limited to, the acquisition, distribution and collection of program materials and equipment for laboratory and field site, procurement of professional consultation, procurement of services of other contractors. Logistics support is anticipated for, but not limited to, the following sub-tasks:
  - 3.3.1.1 ANS subjects: The contractor shall provide the logistical support for providing viable ANS phyto- and zooplankton samples for ETV testing protocols.
  - 3.3.1.2 Subject matter experts: The contractor shall identify and retain services of subject matter experts as program needs arise with specializations including, but not limited to: Naval sanitary spaces, solvent free marine coatings and Naval material failure analysis in accordance with appropriate Navy specifications.
  - 3.3.1.3 Corrosion Inspection: The contractor shall provide expertise and field support for ship and submarine hull inspections, corrosion assessments, failure analysis, materials/coatings assessment, systems analysis, prototype/sensor evaluation and communications.
- 3.3.2 Demonstration Coordination:** The contractor shall coordinate efforts of the contractor, NRL, the Fleet, other government organizations, and subcontractors on technology demonstrations of RDT&E (3.1) and Engineering (3.2) programs at both laboratory and field locations. The contractor responsibilities include coordination of materials, labor, quality assurance, access, reporting and any associated final deliverables as needed.
  - 3.3.2.1 ANS technology demonstrations: The contractor shall coordinate with technology candidates for the ANS ETV test facility at Key West. The contractor shall act as the primary liaison between the facility and technology provider for participation into the test schedule.
  - 3.3.2.2 Shipboard coating demonstrations: The contractor shall coordinate efforts of material, surface preparation, coating applicator, and support vendors for the successful demonstration of new coating materials on Naval platforms.
- 3.3.3 Facility Development:** The contractor shall provide facility development to expand the capabilities and improve the efficacy of CCSE facility functions while insuring the appropriate safety, security and protection of researchers, scientific equipment, test samples and laboratory infrastructure in order to minimize risks of personal injury, physical damage, and information loss.
  - 3.3.3.1 Cathodic protection modeling tank: The contractor shall design, develop, construct and maintain an appropriate scale model cathodic protection tank that minimizes boundary, vibration and environmental effects on testing.
  - 3.3.3.2 Hazardous waste containment: The contractor shall design, develop, construct and maintain appropriate structures, compliant with OSHA, NAVOSH, the State of Florida and all other

regulating organizations, to contain and confine hazardous waste generated from the testing of coating materials.

- 3.3.4 Analytical Laboratory Support:** The contractor shall provide analytical chemistry support for the analysis of aqueous, organic and inorganic compounds. Samples will be derived from environmental samples, fundement/applied research experiments, developmental/prototype engineering tests, powder metals, materials testing and Naval system Quality Assurance (QA) analysis. Techniques anticipated include, but are not limited to, Thermo-gravimetric analysis (TGA), Infrared-vis spectroscopy, physical properties, Transmission Electron Microscopy (SEM), Scanning Electron Microscopy (SEM), Scanning Auger Microscopy (SAM), DC Potentiostats, AC impedance, Kelvin Probe, High Pressure Liquid Chromatography (HPLC), and X-ray analysis.
- 3.3.5 Experimental Fabrication:** The contractor shall fabricate experimental prototypes/samples for standard CCSE RDT&E (3.1) and Engineering (3.2) programs as needed. The contractor's responsibilities will include precision fabrication procedures/techniques, specialized procurement of necessary equipment, electro-mechanical assembly, prototyping, commercialization, market analysis, customer marketing, patent preparation and implementation procedures for Navy systems.
- 3.3.6 Meeting Support and Coordination:** The contractor shall provide support for planning, organization, participation and executing meetings required for the planning, execution and reporting of CCSE related programs in support of the Center's interaction with the Fleet, SYSCOMS, OSD and other government agencies through reviews, conferences, Naval meetings, and other DoD or government agencies as needed. The contractor's responsibilities will include, but are not limited to:
- 3.3.6.1 Presentation Support: The contractor shall prepare manuscripts, posters and presentation material of CCSE programs.
- 3.3.6.2 Meeting Participation: The contractor shall participate in conferences, meetings and reviews for command interaction, professional societies and fleet demonstrations as directed.
- 3.3.6.3 Meeting Organization: The contractor shall plan, organize and execute meetings for the advancement of CCSE programs for the purpose of sharing technical information, coordinating efforts with CCSE partners, reviewing program progress and identifying new program areas.

#### **3.4 Communication and Information Support**

The Contractor shall provide communication and information support for CCSE RDT&E (3.1) and Engineering (3.2) programs including, but not limited to, marine coatings, marine materials, test and detection equipment, alternative power sources, ANS and biofouling mitigation systems, and emerging engineering solutions to facilitate CCSE Naval and DoD programs. The contractor's system management duties will include but are not limited to: information technology (IT), computer operations, computer setup, server operation, website design/maintenance, Labview/Honeywell process control software, electronic instrumentation (incl: Hewlett Packard and Keithly instruments), wireless communications, computational software, 3-dimensional imaging, image analysis and virtual space, in support of the Center's activities in Washington DC and Key West, FL and for interaction with the NRL field activities, fleet demonstrations and related programmatic needs/support.

- 3.4.1 Computer Information Technology:** The contractor shall design, implement and support computer information technology requirements unique to the mission of the CCSE. The CCSE requires efficient, adaptable and secure information technology solutions for data, video and audio data storage, dissemination, and archiving that incorporates information from laboratory and field sites, with appropriate access and version control with streamlined dissemination to

appropriate Naval and DoD organizations. Expected computer information technology support includes, but is not limited to the following:

- 3.4.1.1 Key West Laboratory IT: The contractor shall design, construction and support the information technology system in place at the Key West facility with special attention to communication systems between the two NRL CCSE facilities in Key West and Washington, DC.
- 3.4.1.2 Coatings/materials database: The contractor shall develop, populate and maintain the database for the accumulation and access of documentation for the qualification of Navy marine coatings with strict version and security control.
- 3.4.1.3 CCSE Website: The contractor shall develop, maintain and operate the CCSE Website for ANS and other related programs of interest to the Navy.
- 3.4.1.4 ANS Process Development: The contractor shall provide expertise to facilitate the design, operation and testing associated with the NRL ANS test facility. This requires knowledge of Honeywell process control software and interface instrumentation.
- 3.4.2 Compilation of Technical Data:** The contractor shall research and compile technical data through government, public and private industry resources, interviews, surveys and other standard techniques to assess the need and impact of past, current and emerging CCSE programs. Efforts include, but are not limited to:
  - 3.4.2.1 Spectrographic Analysis: The contractor shall provide expertise relating to Navy programs on optical imaging, solar adsorption, Ultraviolet/Visible/IR analysis and advanced software/computational techniques.
- 3.4.3 Promotion of CCSE Programs:** The contractor shall provide support to promote CCSE programs through interaction with program stakeholders, professional organizations and professional/technical experts. Efforts will include, but are not limited to:
  - 3.4.3.1 Marketing: The contractor shall coordinate with the CCSE to present programs to organizations in order to leverage current programs, techniques, equipment, and intellectual property to address additional programs in aquatic nuisance species mitigation, marine engineering systems, corrosion science/electrochemistry, fuel cells alternate power sources, materials, and marine coatings.
  - 3.4.3.2 Recruiting: The contractor shall identify, track and recruit staff to meet programmatic goals of CCSE programs.

### **3.5 Other Taskings**

The Contractor shall provide additional effort to support Navy efforts in fuels and fire testing. These efforts may include measurement of physical properties, analysis, test support, field evaluation and tasks associated with Navy fuels and testing concerning emissions and safety related to fire properties in coatings and materials. These efforts may be supported by outside activities and be performed at various sites, including NAVSEA and NAVAIR River Activities

**3.5.1 Fuel Analysis:** The contractor shall support efforts in fuel chemistry and Engineering programs.

- 3.5.1.1 Contractor shall provide chemical and physical property analysis on a continual basis in support of ongoing engineering programs which employ test fuels in both intermediate and large scale devices and components. This analysis may involve unique testing or development of alternative analytical test devices for more routine use. These efforts may be performed at Patuxent Naval Air Station, Patuxent MD, but do not exclude other test sites.
- 3.5.1.2 Contractor shall provide chemical composition analysis, and property information for experimental and test fuels as supplied by the NRL. Contractor shall provide reports in accordance with the attached Form DD 1423.

- 3.5.2 Coatings Technology/Shipyard Application:** The contractor shall support Navy efforts to provide coatings technology application and evaluation for platforms at Navy work sites, including, but not limited to, Puget Sound/Everett/Bangor WA, Norfolk VA, San Diego CA, Pearl Harbor HI, Mayport, MS and Kings Bay GA.
- 3.5.2.1 The contractor shall perform preservation work IAW the following specifications, standards, instructions, documents, etc., establish the technical baseline. Work will be strictly adhered to by the contractor in performance of preservation on Navy vessels. Changes to this baseline may be made over the course of the contract, in which case the Contractor shall be notified by modification to the contract or by Technical Instruction. Several of the documents are available electronically at [www.nstcenter.com](http://www.nstcenter.com) under "Technical Resources" tab.
1. Naval Ship's Technical Manual (NSTM) Chapter 631, S9086-VD-STM-010/CH-631, "Preservation of Ships in Service"
  2. NSTM Chapter 634, S9086-VG-STM-010/CH634, "Deck Coverings"
  3. NSTM Chapter 593, "Pollution Control"
  4. NAVSEA Standard Items, Utilization Category I & II standards
  5. NAVSEA Standard Work Item 077-01, "Hazardous Waste Produced on Naval Vessels; Control"
  6. NAVSEA Clause 5252.223-9114, Management and Disposal of Hazardous Wastes (NOV 1996).
  7. NAVSEA Preservation Process Instructions
  8. SUBMEPP "Submarine Maintenance Standard," Submarine Preservation, MS # 6310-081-015
  9. NAVSEA Technical Publication T9074-AD-GIB-010/1688, "Requirements for Fabrication, Welding, and Inspection of Submarine Structure"
  10. The Society of Protective Coatings, SP, QP and PA Standards
  11. Paint Manufacturer Application/Cure Instructions/Material Safety Data Sheets
  12. Uniform Industrial Process Instruction, Category I, "Electrostatic Powder Coating",
    - a. No. 0631-091
  13. Federal, State, Local, Naval facility, and ship laws, rules, regulations, policies, and procedures, as applicable, including those for safety, security, health, and the environment.

CONTRACT DATA REQUIREMENTS LIST										Form Approved OMB No. 0704-0188			
<p>The public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>													
A. CONTRACT LINE ITEM NO. ALL			B. EXHIBIT A			C. CATEGORY: TDP _____ TM _____ OTHER _____							
D. SYSTEM/ITEM					E. CONTRACT/PR NO. N00173-06-R-SK08			F. CONTRACTOR TBD					
1. DATA ITEM NO. A001		2. TITLE OF DATA ITEM Status of Funds Report					3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) N/A				5. CONTRACT REFERENCE SOW			6. REQUIRING OFFICE NRL, COR						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED NO		10. FREQUENCY Monthly		12. DATE OF FIRST SUBMISSION 45 DAC		14. DISTRIBUTION					
8. APP CODE				11. AS OF DATE AWARD		13. DATE OF SUBSEQUENT SUBMISSION 30		a. ADDRESSEE		b. COPIES			
16. REMARKS Report to include detailed expenditures to date.								NRL, COR		Draft		Final	
												Reg	
15. TOTAL →								0		2		0	
1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM Quarterly Reports					3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) N/A				5. CONTRACT REFERENCE SOW			6. REQUIRING OFFICE NRL, COR						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY Quarterly		12. DATE OF FIRST SUBMISSION 105 DAC		14. DISTRIBUTION					
8. APP CODE				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES			
16. REMARKS These reports should be submitted in accordance with the SOW and COR direction.								NRL, COR		Draft		Final	
												Reg	
15. TOTAL →								0		2		0	
1. DATA ITEM NO. A003		2. TITLE OF DATA ITEM Final Report					3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) N/A				5. CONTRACT REFERENCE SOW			6. REQUIRING OFFICE						
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY Once		12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION					
8. APP CODE				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES			
16. REMARKS This report should be submitted in accordance with the SOW and COR direction.								NRL, COR		Draft		Final	
												Reg	
15. TOTAL →								0		2		0	
1. DATA ITEM NO.		2. TITLE OF DATA ITEM					3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE			6. REQUIRING OFFICE						
7. DD 250 REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY		12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION					
8. APP CODE				11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES			
16. REMARKS										Draft		Final	
												Reg	
15. TOTAL →								0		0		0	
G. PREPARED BY Code 6130				H. DATE 12/17/06		I. APPROVED BY				J. DATE 12/17/06			

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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## Personnel Qualifications

**Senior Project Manager (PM):** PhD/MS/BS degree in Engineering, Physical Sciences or Equiv. from an accredited university. PM shall be a senior R & D manager with a minimum of 8 years demonstrated expertise in a research environment with an appropriate knowledge base pertaining to defined overall SOW. Experience should encompass basic science credentials with further expertise in applied and industrial Navy environments, with proven ability to administer DoD sponsored programs. The technical areas may include, but are not limited to: corrosion science, materials engineering, information technology, Navy/warfighter systems, environmental sciences, alternative power systems, and fleet support.

**Sr Project Engineer/Scientist:** MS/PhD degree in Engineering, Physical Sciences or Equiv. from an accredited university. Candidate should have 5 years demonstrated experience as principle investigator running basic and applied research programs, engineering analyses, field activities, fleet support and appropriate knowledge base pertaining to defined task. These areas should include, but are not limited to: corrosion science, materials engineering, information technology, Navy/warfighter systems, environmental sciences, alternative power systems, and fleet support. Responsibilities will include project conception, proposal writing, oversight of junior staff, experience presenting at flag level, senior program reviews and will require professional participation and excellent technical writing skills.

**Project Engineer/Scientist:** BS/MS degree in Engineering, Physical Sciences or Equiv. from an accredited university. 4 Years demonstrated expertise in performing laboratory research programs, engineering analyses, field activities, fleet support and appropriate knowledge base pertaining to defined task. These areas may include, but are not limited to: marine coatings, corrosion science, materials engineering, information technology, Navy/warfighter systems, environmental sciences, alternative power systems, and fleet support.

**Technician:** AA/BS degree in Engineering, Physical Sciences or Equiv. from an accredited university. 2 Years demonstrated expertise in performing laboratory research programs, engineering analyses, field activities, fleet support, prototyping, electro-mechanical systems and appropriate knowledge base pertaining to defined task.

**Technical Assistant:** Technical personnel with ability to assist with laboratory operation, presentations and run workshops, meetings and reviews. Should have word processing/computational skills and be able to put together presentations, handouts and support activity.

**Student Trainee:** HS or College student with interest or study in Engineering, Physical Sciences. Temporary position with limited benefits and tenure. Reduced overhead rate.

**Deckplate Team Foreman:** Direct experience managing surface preparation and coating application work on marine vessels, similar in scope to the statement of work, at an off-site (customer) facility. Individuals with 5 or more years of experience in this field will be given additional consideration. Further consideration will be given to individuals with direct experience with the application of high-solid, low-VOC coating systems, and edge-retentive coating systems. Additionally, consideration will also be given to individuals with direct experience in surface preparation using SSPC standards (abrasive-blast, power-tool, and hand-tool). Direct experience in employing the specifications and standards listed in the section below and with the environmental regulations (NESHAP, Clean Air & Water Acts, Environmental Protection Agency, and permitting regulations) relevant to the team locales will be given additional weight. Individuals with direct experience in water-jetting and with managing preservation work on U.S. Naval vessels will be given additional consideration.

**Team Planner/Surveyor:** Direct experience in job scope planning of preservation efforts for marine vessels, similar in scope to the statement of work, is required and the Navy desires the individual to have such experience on 20 or more preservation efforts. Additional consideration will be given to individuals having direct experience of 2 or more years with the standards and specifications listed in the section below, for application of coating systems, as well as with environmental regulations—including NESHAP, Clean Air & Water Acts, EPA, and permitting regulations—relevant to the team locales outlined within the statement of work. Further consideration will be given to individuals having direct experience with U.S. Navy in-service ship characteristics and maintenance procedures.

**Deckplate Quality Assurance Professional:** This individual must be certified as a NACE International Certified Coating Inspector. The individual should also have experience, preferably 5 or more years, inspecting the application of marine coatings. Additional consideration will be given to individuals who have inspected 10 or more marine-vessel coating efforts. Further consideration will be given to individuals having direct experience with the standards and specifications listed in the section below with emphasis on NAVSEA Quality Assurance and reporting requirements, for application of coating systems, as well as with advanced coating technologies and applications, including solvent-free edge retentive coatings. Further consideration will also be given to individuals having direct experience with environmental regulations—including NESHAP, Clean Air & Water Acts, EPA, and permitting regulations—relevant to ports for which an offer(s) is submitted, as well as with U.S. Navy in-service ship characteristics and maintenance procedures.

**Abrasive Blast Professional:** This individual must be SSPC-C7, or NAVSEA approved equivalent, certified as required in NAVSEA Standard Item 009-32. The individual should also have preferably 2 or more years experience performing abrasive blast for the application of marine coatings. Additional consideration will be given to individuals with at least 2 years of direct experience performing abrasive blast in support of Navy critical coated areas, as defined in NAVSEA Standard Item 009-32. Further consideration will be given to individuals having direct experience with the standards and specifications listed in the section below regarding other surface preparation and coating application processes/techniques.

**Water Jet Technician:** This individual preferably should have 2 or more years of experience performing water-jet surface preparation. The individual must have a minimum of 100 hours of hands-on experience (documented) with a water-jet lance. Further, the individual must provide documentation of completion for a water-jet safety training course. The individual must have extensive familiarity with SSPC-SP12. Additional consideration will be given to individuals having 2 or more years experience performing abrasive blast for marine coating applications. Further consideration will also be given to individuals with direct experience performing surface preparation of Navy critical coated areas, as defined in NAVSEA Standard Item 009-32, as well as direct experience with the other standards and specifications listed in the section below.

**Spray Application Specialist:** This individual must be SSPC Marine Plural Component Applicator certified, or certified via NAVSEA approved equivalent, in accordance with NAVSEA Standard Item 009-32. The individual should also have preferably 2 or more years experience applying marine coatings with plural component spray systems. Additional consideration will be given to individuals with at least 2 years of direct experience performing spraying applications in support of Navy critical coated areas, as defined in NAVSEA Standard Item 009-32. Further consideration will be given to individuals having direct experience with the standards and specifications listed in the section below regarding surface preparation and coating application processes/techniques.

**Surface Preparation Technician:** This individual should have 2 or more years of extensive experience using power hand tools to prepare surfaces to an SSPC-SP11, as well as using other hand tools to meet SSPC-SP3 and lower. The individual also needs to have entry-level experience using abrasive blast equipment. Further consideration will also be given to individuals with direct experience performing surface preparation of Navy critical coated areas, as defined in NAVSEA Standard Item 009-32, as well as direct experience with the other standards and specifications listed in the section below.

**Coating Applicator:** This individual should have 2 or more years of experience in the application of marine coatings using non-plural component spray equipment, as well as the requirements for applying coatings with brushes and rollers. The individual needs to be familiar with the preparation of surfaces (removal of old coatings and corrosion, as well as surface profiling) employing SSPC standards for steel structures, preferably on marine and/or Naval vessels.

**Preservation Assistant:** This individual is to have sufficient experience to assist with the preparation of surfaces (removal of old coatings and corrosion, as well as surface profiling) and application of new coating systems for steel structures, preferably on marine vessels.

**General Laborer:** General laborer with a minimum of 2 weeks of training relevant to surface preparation and coating application concepts, as well as safety and environmental requirements, specified within the statement of work.

## Estimated Travel and Materials

## Estimated Travel Costs

The Contractor will be required to travel to complete the requirements of this contract. Travel may be for the following purposes: 1) progress meeting and program reviews, 2) NRL support, 3) presentation of material at professional meetings/symposia, academic and industrial activities and organizations, 4) field support for demonstrations, experiments, detail and engineering at various sites, 5) travel between NRL DC and NRL KW for program activity.

Task	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost
Task 3.1	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Task 3.2	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Task 3.3	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Task 3.4	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$275,000
Task 3.5.1	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
Task 3.5.2	\$5,500	\$5,500	\$5,500	\$5,500	\$5,500	\$27,500

## Estimated Materials and ODC

The Contractor shall procure materials and equipment as needed to perform laboratory tasking, engineering assignments and field work.

Task	Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost
Task 3.1	\$510,000	\$510,000	\$510,000	\$510,000	\$510,000	\$2,550,000
Task 3.2	\$2,175,000	\$2,175,000	\$2,175,000	\$2,175,000	\$2,175,000	\$10,875,000
Task 3.3	\$2,175,000	\$2,175,000	\$2,175,000	\$2,175,000	\$2,175,000	\$10,875,000
Task 3.4	\$555,000	\$555,000	\$555,000	\$555,000	\$555,000	\$2,775,000
Task 3.5.1	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
Task 3.5.2	\$4,500,00	\$4,500,00	\$4,500,00	\$4,500,00	\$4,500,00	\$22,500,000

SER: 056-06

<b>DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				<b>1. CLEARANCE AND SAFEGUARDING</b> a. FACILITY CLEARANCE REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">NONE</div>																																																																																																																											
<b>2. THIS SPECIFICATION IS FOR:</b> <i>(X and complete as applicable)</i>				<b>3. THIS SPECIFICATION IS:</b> <i>(X and complete as applicable)</i>																																																																																																																											
a. PRIME CONTRACT NUMBER		b. SUBCONTRACT NUMBER		a. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD) 2006/09/27																																																																																																																									
b. SOLICITATION OR OTHER NUMBER 61-0211-06		DUE DATE (YYYYMMDD)		b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO. DATE (YYYYMMDD)																																																																																																																									
c. SOLICITATION OR OTHER NUMBER		DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete item 5 in all cases)</i>		DATE (YYYYMMDD)																																																																																																																									
<b>4. IS THIS A FOLLOW-ON CONTRACT?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.																																																																																																																											
<b>5. IS THIS A FINAL DD FORM 254?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.																																																																																																																											
<b>6. CONTRACTOR</b> <i>(Include Commercial and Government Entity (CAGE) Code)</i>																																																																																																																															
a. NAME, ADDRESS, AND ZIP CODE				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>																																																																																																																									
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD						N/A																																																																																																																									
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4"><b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b></td> <td colspan="4"><b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b></td> </tr> <tr> <td></td> <td>YES</td> <td>NO</td> <td></td> <td></td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>b. RESTRICTED DATA</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td>b. RECEIVE CLASSIFIED DOCUMENTS ONLY</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>c. RECEIVE AND GENERATE CLASSIFIED MATERIAL</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>d. FORMERLY RESTRICTED DATA</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>e. INTELLIGENCE INFORMATION</td> <td></td> <td></td> <td></td> <td>e. PERFORM SERVICES ONLY</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>(1) Sensitive Compartmented Information (SCI)</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>(2) Non-SCI</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>f. SPECIAL ACCESS INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>h. REQUIRE A COMSEC ACCOUNT</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>g. NATO INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>i. HAVE TEMPEST REQUIREMENTS</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>h. FOREIGN GOVERNMENT INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>i. LIMITED DISSEMINATION INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>j. FOR OFFICIAL USE ONLY INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>l. OTHER <i>(Specify)</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td>k. OTHER <i>(Specify)</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								<b>10. CONTRACTOR WILL REQUIRE ACCESS TO:</b>				<b>11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</b>					YES	NO			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"/>			b. RESTRICTED DATA	<input checked="" type="checkbox"/>			b. RECEIVE CLASSIFIED DOCUMENTS ONLY			<input checked="" type="checkbox"/>	c. 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Reset

**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 6130

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 ( <i>Include Area Code</i> )
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, 6130                         |