

IMPORTANT NOTICE

The U.S. Postal Service continues to irradiate letters, flats, Express and Priority Mail with stamps for postage and other packages with stamps for postage destined to government agencies in the ZIP Code ranges 202 through 205.

Mail that is irradiated may exhibit a discolored (tan-colored) quality, as well as be brittle, show spots on envelopes and make address labels unreadable. Irradiation may destroy electronic format materials provided on computer discs. Customers and businesses sending mail to ZIP Codes 202-205 can avoid the irradiation process by affixing postage meter strips or permit indicia instead of postage stamps to Express or Priority Mail. The use of corporate accounts for Express Mail or registered mail also is another way to avoid the irradiation process.

Due to potential delays in receiving mail and potential for receipt of damaged computer discs, offerors are encouraged to use alternatives to the mail when submitting proposals.

This solicitation contains the provision at FAR 52.215-5 which authorizes facsimile proposals. Offerors are encouraged to use alternatives to the mail when submitting proposals.

2. CONTRACT NO. 3. SOLICITATION NO. **N00173-05-R-DL02** 4. TYPE OF SOLICITATION
 SEALED BID (IFB)
 NEGOTIATED (RFP) 5. DATE ISSUED **01/27/05** 6. REQUISITION/PURCHASE NO.

7. ISSUED BY
CONTRACTING OFFICER
NAVAL RESEARCH LABORATORY
4555 OVERLOOK AVENUE SW
WASHINGTON DC 20375-5326
ATTN: CODE 3220.dl

8. ADDRESS OFFER TO (If other than Item 7)

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

SOLICITATION

9. Sealed offers in original and 3 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in See Section L-2 until 4:00pm local time 02/28/05
 (Hour) (Date)

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

10. FOR INFORMATION CALL: A. NAME **Dian Lockamy** B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) **(202) 767-3782**

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OFFER (Must be fully completed by offeror)

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

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

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)

10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
%	%	%	%

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:

AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR CODE _____ FACILITY _____ 16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

15B. TELEPHONE NO. (Include area code) 15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE. 17. SIGNATURE 18. OFFER DATE

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED 20. AMOUNT 21. ACCOUNTING AND APPROPRIATION

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:
 10 U.S.C. 2304(c) () 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) CODE _____ 25. PAYMENT WILL BE MADE BY CODE _____

26. NAME OF CONTRACTING OFFICER (Type or print) 27. UNITED STATES OF AMERICA (Signature of Contracting Officer) 28. AWARD DATE

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

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

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall conduct research and development for "Off board Electronic Warfare" as Described in Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
TOTAL ESTIMATED COST PLUS FIXED FEE:		\$	\$	\$

* *Not Separately Priced*

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

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

C-1 STATEMENT OF WORK

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

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

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

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

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

**SECTION E
INSPECTION AND ACCEPTANCE**

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE

FAR CLAUSE TITLE

52.246-8 - Inspection Of Research And Development - Cost Reimbursement (MAY 2001)
52.246-9 - Inspection Of Research And Development (Short Form) (APR 1984)

DFARS CLAUSE TITLE

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

E-2 INSPECTION AND ACCEPTANCE

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

**SECTION F
DELIVERIES OR PERFORMANCE**

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

FAR CLAUSE TITLE

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

F-2 PERIOD AND PLACE OF PERFORMANCE

- (a) The term of this contract is from through date of award through 12 months thereafter, with four (4) options that will extend the period of performance for an additional 12 months each, if exercised.
- (b) The principal place of performance of this contract shall be the Naval Research Laboratory, Washington 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 administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

(* To be completed at time of award)

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

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

contract performance; or

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

G-4 SUBCONTRACTORS/CONSULTANTS

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

Subcontractor/Consultant Name	Estimated Cost
-------------------------------	----------------

(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 INFORMATIONAL SUBLINE ITEMS

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

G-7 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

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

G-8 PAYMENT AND INVOICE INSTRUCTIONS (COST REIMBURSEMENT)Submission of Invoices

The contractor shall submit invoices and any necessary supporting documentation to the contract auditor at the following address:

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

Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clauses(s) of this contract.

The contractor shall provide an information copy of each invoice submitted to the COR identified in Section G.

The contractor shall review instructions at website www.dfas.mil/commpaycontractorpayment to determine

The contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this 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 shown in Block 12 of SF 26 instead of to the address shown above. Such authorization does not extend to the first and final vouchers. The contractor shall continue to submit first vouchers to the cognizant auditor shown above. The final voucher shall be submitted to the Administrative Contracting Officer (SF 26, Block 6) with a copy to the cognizant auditor.

**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 Electrical Engineer	
Senior Systems Engineer	

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

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be total 22,000 hours of direct labor for the base award, and 22,000 total hours 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 1,833 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less

than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

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

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

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

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

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

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

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

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

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

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

<u>Labor Category</u>	<u>Hours, for Base Year And Each Option Year, If exercised</u>
Senior Electrical Engineer	4,000
Senior Scientist	1,000
Senior Systems Engineer	1,000
Senior Analyst	4,000
Electrical Engineer/Physicist	2,000
Senior Mechanical Engineer	2,000
Senior Electronics Technician	2,000
Electronics Technician	2,000
Senior Security Specialist	1,000
Security Specialist	1,000
Technical Writer	1,000
Technical Support	<u>1,000</u>
	22,000

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

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

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

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

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

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

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

this contract and at the estimated cost and fixed fee set forth below:

First Option

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

Second Option

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

Third Option

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

Fourth Option

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

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-8 REPRESENTATIONS AND CERTIFICATIONS

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

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

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

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

Also, the full text of a clause may be accessed electronically at this/these address(es):

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

a. FEDERAL ACQUISITION REGULATION CLAUSES**FAR CLAUSE TITLE**

- | | | |
|-----------|---|--|
| 52.202-1 | - | Definitions (JUL 2004) |
| 52.203-3 | - | Gratuities (APR 1984) |
| 52.203-5 | - | Covenant Against Contingent Fees (APR 1984) |
| 52.203-6 | - | Restrictions On Subcontractor Sales To The Government (JUL 1995) |
| 52.203-7 | - | Anti-Kickback Procedures (JUL 1995) |
| 52-203-8 | - | Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997) |
| 52.203-10 | - | Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997) |
| 52.203-12 | - | Limitation On Payments To Influence Certain Federal Transactions (JUN 2003) |
| 52.204-2 | - | Security Requirements (AUG 1996) |
| 52.204-4 | - | Printed Or Copied Double-Sided On Recycled Paper (AUG 2000) |
| 52.209-6 | - | Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995) |
| 52.211-15 | - | Defense Priority And Allocation Requirements (SEP 1990) |
| 52.215-2 | - | Audit And Records-Negotiation (JUN 1999) |
| 52.215-8 | - | Order Of Precedence - Uniform Contract Format (OCT 1997) |
| 52.215-11 | - | Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997) |
| 52.215-13 | - | Subcontractor Cost Or Pricing Data Modifications (OCT 1997) |
| 52.215-14 | - | Integrity Of Unit Prices (OCT 1997) |
| 52.215-15 | - | Pension Adjustments And Asset Reversions (OCT 2004) |
| 52.215-17 | - | Waiver Of Facilities Capital Cost Of Money (OCT 1997)
(<i>will be included if the successful offeror does not propose facilities capital cost of money</i>) |
| 52.215-18 | - | Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997) |
| 52.215-19 | - | Notification Of Ownership Changes (OCT 1997) |
| 52.215-21 | - | Requirements For Cost And Pricing Data Or Information Other Than Cost Or Pricing |

- 52.216-7 - Data - Modifications (OCT 1997) - Alternate IV (OCT 1997)
- 52.216-8 - Allowable Cost And Payment (DEC 2002) (fill in 30th
- 52.219-6 - Fixed-Fee (MAR 1997)
- 52.219-8 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-14 - Utilization Of Small Business Concerns (MAY 2004)
- 52.222-2 - Limitations On Subcontracting (DEC 1996)
- 52.222-3 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-19 - Convict Labor (JUN 2003)
- 52.222-21 - Child Labor – Cooperation With Authorities And Remedies (JUN 2004)
- 52.222-26 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-29 - Equal Opportunity (APR 2002)
- 52.222-35 - Notification Of Visa Denial (JUN 2003)
- 52.222-36 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-37 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-39 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.223-5 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-6 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-14 - Drug-Free Workplace (MAY 2001)
- 52.225-13 - Toxic Chemical Release Reporting (AUG 2003)
- 52.227-1 - Restrictions On Certain Foreign Purchases (JAN 2004)
- 52.227-2 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-11 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.228-7 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)
- 52.230-3 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-6 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.232-9 - Administration Of Cost Accounting Standards (NOV 1999)
- 52.232-17 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-20 - Interest (JUN 1996)
- 52.232-22 - Limitation Of Cost (APR 1984) (*Applicable when the contract or task order is fully funded*)
- 52.232-23 - Limitation Of Funds (APR 1984) (*Applicable when the contract or task order is not fully funded*)
- 52.232-25 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-33 - Prompt Payment (OCT 2003)
- 52.233-1 - Prompt Payment (OCT 2003) Alternate I(FEB 2002)
- 52.233-3 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-4 - Disputes (JUL 2002)
- 52.237-2 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.242-1 - Applicable Law For Breach Of Contract Claim (OCT 2004)
- 52.242-3 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.242-3 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)

- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984)fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items (DEC 2004)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JUN 2003)
- 52.249-6 - Termination (Cost-Reimbursement) (MAY 2004)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)(fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (DEC 2004)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Alternate A (NOV 2003)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7013 - Duty Free Entry (JAN 2004)
- 252.225-7031 - Secondary Arab Boycott Of Israel (APR 2003)
- 252.226-7001 - Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (OCT 2003)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)

- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7003 - Electronic Submission Of Payment Requests (JAN 2004)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (NOV 2004)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

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

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

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

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

WARNING

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

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

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

- J-1** Attachment (1) - Statement Of Work - 4 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 3 Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 070-04 Dated 11/24/2004 w/Attachments 6 Pages.
- J-3** Attachment (3) – Personnel Qualifications, 3 Pages.
- J-4** Attachment () – Accounting and Appropriation Data- 1 page. *
(* To be included at time of award)

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

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

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

Use Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (APR 2002)

The fill in information is as follows:

The NAICS code for this acquisition is 5412330

The small business size standard is. \$4,000,000

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

FAR CLAUSE TITLE

- 52.204-6 - Data Universal Numbering System (DUNS) Number (OCT 2003)
- 52.204-7 - Central Contractor Registration (OCT 2003)
- 52.211-2 - Availability Of Specifications Listed In The DOD Index Of Specifications And Standards (DoDISS) And Descriptions Listed In The Acquisition Management Systems And Data Requirements Control List, DoD 5010.12-L (DEC 2003)
- 52.214-34 - Submission Of Offers In The English Language (APR 1991)
- 52.214-35 - Submission Of Offers In U.S. Currency (APR 1991)
- 52.215-1 - Instructions To Offerors- Competitive Acquisition (JAN 2004)
- 52.215-16 - Facilities Capital Cost Of Money (JUN 2003)
- 52.222-24 - Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
- 52.237-10 - Identification Of Uncompensated Overtime (OCT 1997)

DFAR CLAUSE TITLE

- 252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (SEP 2004)
- 252.211-7005 - Substitutions For Military Or Federal Specifications And Standards (FEB 2003)

L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

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

Contracting Officer, ATTN: Code 3220
 Naval Research Laboratory(NRL)
 4555 Overlook Avenue, S.W.
 Washington, D.C. 20375

Solicitation/RFP No. – N00173-05-R-DL02

Closing Date: 2/28/2005 Time 4:00 PM

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 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 type contract resulting from this solicitation.

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

The fill-in information is as follows:

Listed End Product	Listed Countries of Origin

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

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

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

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

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

clause.

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

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

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

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

- * For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.
- ** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.
- *** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

- **** Corporation, individual, or other person, as appropriate.
- ***** Enter "none" when all data or software will be submitted without restrictions.

Date _____
 Printed Name and Title _____

 Signature _____

(End of identification and assertion)

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

L-9 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)

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

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

L-10 GOVERNMENT-FURNISHED PROPERTY

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

L-11 INQUIRIES CONCERNING THE RFP

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

L-12 PROPOSAL ORGANIZATION

- (1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).
- (2) Proposal Format and Length - No attempt is made to restrict the proposal format and style.

However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-13 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES.

(1) The Contractor must propose the labor categories in accordance with the Level of Effort Breakdown in Section H-3. If the offeror uses labor category terminology other than that used in Section H-3, the offer must provide a matrix clearly relating their proposed labor categories to those stated.

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

(A) Personnel Qualifications

Provide resumes to demonstrate that the personnel proposed have the relevant experience and qualifications of the requirements as set forth in the RFP and any attachments/exhibits. Indicate the availability of key and supporting personnel that would enable them to accomplish the tasks in the statement of work. A statement of commitment by the contractor that specific personnel will be committed to the effort is essential.

(B) Company Experience

Provide a narrative description of the extent of company experience as related to tasks stated in the statement of work, attachment (1) of the RFP.

(C) Technical Understanding

Demonstrate understanding of the requirement the scientific concepts, the technical issues, and the engineering challenges involved in the successful undertaking of each task in the statement of work, attachment (1) of the RFP. Prior experience that demonstrates both scholarly and successful approaches can serve to characterize qualifications. Fully address each of the critical issues involved in each of the tasks.

(D) Company Facilities and Equipment

Demonstrate the adequacy of the general and unique facilities and equipment required for the requirement.

L-14 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

(1) COST PROPOSAL

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

L-15 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 estimates the travel costs for this effort to be \$100,000 for the basic award and \$100,000.00 for each option period, if exercised.

The Government estimates the material costs for this effort to be \$500,000 for the basic award and \$500,000.00 for each option period, if exercised.

L-16 CRITERIA FOR ALTERNATE PROPOSALS

Proposals submitted in response to this solicitation are not limited to the suggested approaches of the acquisition data furnished. In order to be evaluated, alternate proposals must offer technical improvements or modifications, which are to the overall benefit of the Government. Offerors are encouraged to submit alternate proposals containing new ideas, unique approaches or other significant beneficial program improvements. The alternate proposal will be evaluated in accordance with the evaluation criteria. If the alternate proposal is considered most advantageous to the Government but involves a substantive or material departure from the stated basic proposal requirements or the stated evaluation criteria, all Offerors shall be given an opportunity to submit new or amended proposals on the basis of the revised requirements provided this can be done without revealing to the other Offerors innovative solutions or techniques or other information entitled to protection from disclosure. The Government reserves the right to award a contract based upon an alternate proposal, which meets the government's technical requirements and is otherwise awardable in accordance with the evaluation and award criteria.

SECTION M EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

Award will be made to that offeror whose proposal is determined to be the best value to the

Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although technical considerations are more important than the cost factor, the closer the technical scores of the various proposals are to one another, the more important the cost considerations become.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The Technical Management factor is more important than the Cost to the Government factor. The Technical subfactors are listed in descending order of importance. Technical factor 1 is significantly more important than factor 2, 3, and 4. Factor 2 and 3 are of similar importance and factor 4 is significantly less important.

M-2-1. TECHNICAL/MANAGEMENT

(1) PERSONNEL QUALIFICATIONS

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

(2) COMPANY EXPERIENCE

The Offeror will be evaluated on the extent of the experience with the related types of projects described.

(3) TECHNICAL UNDERSTANDING

The Offeror will be evaluated on the understanding of the requirement, the scientific concept, the technical issues, and the engineering challenges involved. Every critical issue should be fully addressed for the tasks described in the statement of work.

(4) COMPANY FACILITIES AND EQUIPMENT

The proposals will be evaluated on the adequacy of general and unique facilities and equipment required in performance of all tasks as stated in the SOW.

M-2-2 COST TO THE GOVERNMENT

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

the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

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

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

**RESEARCH AND DEVELOPMENT
SERVICES FOR
OFFBOARD ELECTRONIC WARFARE**

STATEMENT OF WORK

1.0 INTRODUCTION

The Naval Research Laboratory (NRL), Washington, DC, Code 5710 is responsible for research, development, and management support of countermeasure technology development projects. The technology development projects encompass a broad spectral range, primarily the radio frequency (RF) and millimeter wave regions, but also the infrared (IR) spectral region, to improve the countermeasure capabilities of the Fleet for both shipboard and airborne applications. With the development of advanced missile seekers by potential adversaries, advanced countermeasure technologies play an increasing role in protecting Fleet assets in both the blue water and littoral environments. Technical support is required to evaluate the performance of technologies in areas which include, but are not limited to, off board countermeasure systems, RF, millimeter, and IR systems, airborne and surface sensors, and unique countermeasure capabilities and systems. Under this contract, the application of advanced technologies will be tested with hardware developments. The technologies will then be assessed with laboratory and field tests to demonstrate and improve countermeasure and sensor systems for these missions.

2.0 SCOPE

The contractor shall provide scientific and engineering support for the design, test and performance evaluation of off board countermeasure systems, including RF systems, millimeter wave systems, IR systems, and surveillance sensors to support blue water and littoral missions for the Navy. The tasks shall include the areas of threat analysis, system analysis, system design and development, system test and evaluation, data collection and analysis, computer simulation design and development, and various facility operations and support. The acquisition of foreign technology information and hardware may be required to support development projects. Expertise for the development and analysis of specific technologies as reflected in the tasks is required. The contractor shall be required to operate in classification environments that require security clearances up to the Top Secret level.

3.0 TECHNICAL REQUIREMENTS

The contractor shall provide scientific, engineering, and analytical support for technology assessments and the design, test, and evaluation of off board countermeasure technologies, RF, millimeter wave, and IR countermeasure systems, surveillance sensors, data acquisition and processing systems, and test and evaluation systems. The contractor shall perform research and systems engineering in special project areas and accomplish specific technology applications and the development of prototype and engineering hardware as part of this contract. The contractor's tasks shall encompass technical areas of foreign and U.S. threat and countermeasure capabilities, and security control technology for airborne and surface warfare capabilities.

3.1 SYSTEM DEFINITION ANALYSES

The contractor shall perform analyses and evaluations to support the definition of radar systems, millimeter wave systems, RF systems, IR systems, surveillance systems, electronic countermeasures systems, weapons systems and subsystems, and component concepts and alternatives. Areas of application include assessment of threats at the all source intelligence level, analysis of the operational environment, determination of system performance requirements, specification of system configuration, definition of interface parameters, definition of integration and support requirements, definition of multi-sensor coordination, and analyses of environmental impact.

3.2 PERFORMANCE ANALYSES

The contractor shall provide systems engineering support in the analyses of conceptual designs, development equipment, and existing systems to assess system and subsystem performance in both controlled and operational environments. The evaluation of various system performance techniques will require the use of very specialized devices and systems, calibration facilities, radar measurement systems, radiometric instrumentation, data acquisition systems, and image processing systems. The contractor shall calibrate, operate, and maintain these complex devices, systems, and facilities and perform detailed data reduction and analysis. The contractor shall select, develop, and integrate measurement platforms. Field exercises will be conducted in a variety of geographic locations within the free world, but the majority will be located within the US. This effort shall include evaluation of performance under both controlled laboratory conditions and dynamic field conditions. It shall also include the development of system models and computerized simulation capabilities in order to evaluate performance in a cost-effective manner. The effort shall include parametric performance studies, sensitivity studies, and multi-sensor correlation studies. Environmental impact and the effects on

both hardware and personnel shall be assessed.

3.3 SYSTEM EVALUATION

The contractor shall provide technical and engineering support for the evaluation of emerging technologies for proposed and fielded sensor and countermeasure systems. The technologies are primarily under development in the U.S.; however, foreign technologies shall also be evaluated for applications for the aforementioned systems. The contractor shall acquire and assess foreign technologies and systems, as required. The contractor shall provide support for static and dynamic tests at specified sites, under the direction of the COR, to evaluate the various systems of interest. The contractor shall participate in test planning and utilize the computerized simulation capabilities to predict testing outcomes.

3.4 ANALYSIS OF TEST RESULTS

The contractor shall provide technical and engineering support in the analysis of test results, support technical evaluation of the test results, develop planning information, and report on the test results.

3.5 PROGRAM DOCUMENTATION

The contractor shall provide technical and system engineering support for analyses and investigations and provide input to NRL in support of NRL preparing and updating program documentation. This includes analysis of proposed system or equipment changes; recommended changes to documentation; analysis of technical, operational, cost, risk, and schedule factors in support of the development of program documentation; and preparation of technical descriptive materials in support of program reporting requirements.

3.6 TEST SUPPORT

The contractor shall provide the personnel, supplies, and facilities required to evaluate technologies of interest, as well as design and fabricate specialized hardware to support system tests at various Government test facilities. The hardware required for supporting test and evaluation tasks shall include data acquisition and storage systems. The hardware shall also include electrical or mechanical fixtures to interface system or test equipment to land, ship, or airborne platforms. Any support material designed and fabricated by the contractor under this contract shall become the property of the Government and shall remain at the testing location if the Government deems it to be reusable. Any other disposition of contract hardware shall be directed by the COR.

3.7 TECHNICAL DATA, PUBLICATIONS, AND SPECIFICATIONS

The contractor shall search out and evaluate technical data and publications pertinent to a particular system under consideration. The effort shall include assessments of specifications, test plans and procedures, drawings and drawing packages, study reports, and test data reports.

3.8 SECURITY SUPPORT

The contractor shall provide specialized security support in the control of classified information. Contractor security specialists shall ensure that Government and contractor personnel and sites have appropriate clearances and approved facilities for access to classified information.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. 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 DMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ F _____												
D. SYSTEM / ITEM		E. CONTRACT / PR NO. 57-1125-04		F. CONTRACTOR												
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Contractor On-Site Labor Report			3. SUBTITLE												
4. AUTHORITY (Data Acquisition Document No.) N/A		5. CONTRACT REFERENCE		8. REQUIRING OFFICE NRL CODE 5715												
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MNTLY	12. DATE OF FIRST SUBMISSION 30 DAC	14. DISTRIBUTION												
6. APP CODE N/A	N/A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION 45 DAC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width: 50%;">a. ADDRESSEE</th> <th colspan="3">b. COPIES</th> </tr> <tr> <th>Draft</th> <th colspan="2">Final</th> </tr> <tr> <td></td> <td></td> <th>Reg</th> <th>Repro</th> </tr> </table>		a. ADDRESSEE	b. COPIES			Draft	Final				Reg	Repro
a. ADDRESSEE	b. COPIES															
	Draft	Final														
		Reg	Repro													
16. REMARKS The Contractor shall deliver the On-Site Labor Report no later than five (5) days after the end of each reporting month. The report must include as a minimum the following data: Reporting Period: Contract Number (and Order Number, if applicable): Contract Value: Current Funding: Amount Expended in Current Period: Total Expended to Date: Date Submitted: Labor (including subcontractors) - Show employee name, number of hours, and total amount billed for contractor employees working on-site at NRL. If the contractor employees worked on multiple tasks (as defined by the COR), the numbers of hours worked on each task must be shown separately.				COR		0	1	0								
				AO CODE 5702		0	1	0								
				CODE 5710B		0	1	0								
						15. TOTAL →		0	1	0						
G. PREPARED BY NRL CODE 5715		H. DATE 01/04/05	I. APPROVED BY		J. DATE											

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. 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 DD NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0001	B. EXHIBIT "A"	C. CATEGORY: TDP _____ TM- _____ OTHER _____
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D. SYSTEM / ITEM	E. CONTRACT / PR NO. 57-1125-04	F. CONTRACTOR
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1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM Progress Report	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE SOW 3.0	6. REQUIRING OFFICE NRL Code 5715
--	---	---

7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	10. FREQUENCY MNTHLY	12. DATE OF FIRST SUBMISSION 30 DAC	14. DISTRIBUTION				
9. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION 45 DAC	a. ADDRESSEE			b. COPIES		
						Draft	Final	
					Reg	Repro		

16. REMARKS The Contractor shall deliver the report no later than five (5) days after the end of each reporting month. The report must include as a minimum a summary of the current technology, including pertinent observations, nature of technical problems, positive as well as negative resresultult and design criteria established to this point. Whwere feasible, mateial should be prepared in such maner as to permit read incorporating without change into teh final report.	15. TOTAL → 0 1 1
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM Ad Hoc Reports	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) N/A	5. CONTRACT REFERENCE SOW 3.0	6. REQUIRING OFFICE NRL Code 5715
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7. DD 250 REQ N/A	8. DIST STATEMENT REQUIRED	10. FREQUENCY ONE TIME	12. DATE OF FIRST SUBMISSION *See Block 16	14. DISTRIBUTION				
9. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE			b. COPIES		
						Draft	Final	
					Reg	Repro		

16. REMARKS The Contractor shall provide the temporary, provisional reports n a one time basis as requested by the COR. The COR will identify the basic contents of the Report and delivery time.	15. TOTAL → 0 1 1
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY NRL Code 5715	H. DATE 01/04	I. APPROVED BY	J. DATE
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DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING SER: 070-04 a. FACILITY CLEARANCE REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">TOP SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">SECRET</div>							
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>				3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>							
a. PRIME CONTRACT NUMBER				X		a. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD)			
b. SUBCONTRACT NUMBER						b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO.			
c. SOLICITATION OR OTHER NUMBER		DUE DATE (YYYYMMDD)				c. FINAL <i>(Complete Item 5 in all cases)</i>		DATE (YYYYMMDD)			
X		57-1125-04						20041124			
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <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.											
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.											
6. CONTRACTOR <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					
7. SUBCONTRACTOR											
a. NAME, ADDRESS, AND ZIP CODE				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>					
N/A						N/A					
8. ACTUAL PERFORMANCE											
a. LOCATION				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>					
N/A						N/A					
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT SCIENTIFIC AND ENGINEERING SERVICES FOR COUNTERMEASURE TECHNOLOGY DEVELOPMENT AND ASSESSMENTS											
10. CONTRACTOR WILL REQUIRE ACCESS TO:				YES		NO		11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:			
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION				X				a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY			
b. RESTRICTED DATA						X		b. RECEIVE CLASSIFIED DOCUMENTS ONLY			
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION						X		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL			
d. FORMERLY RESTRICTED DATA						X		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE			
e. INTELLIGENCE INFORMATION						X		e. PERFORM SERVICES ONLY			
(1) Sensitive Compartmented Information (SCI)						X		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES			
(2) Non-SCI				X				g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER			
f. SPECIAL ACCESS INFORMATION						X		h. REQUIRE A COMSEC ACCOUNT			
g. NATO INFORMATION				X				i. HAVE TEMPEST REQUIREMENTS			
h. FOREIGN GOVERNMENT INFORMATION						X		j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS			
i. LIMITED DISSEMINATION INFORMATION						X		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE			
j. FOR OFFICIAL USE ONLY INFORMATION						X		l. OTHER <i>(Specify)</i>			
k. OTHER <i>(Specify)</i>								SECURE VOICE CAPABILITY			

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 5715.

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 TOP SECRET facility clearance, SECRET storage capabilities, and contractor personnel assigned to this contract must be US citizens, have a favorable DoD adjudicated clearance commensurate with the level of access required for the performance of this 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 SHELIA NEAL	b. TITLE CONTRACTING OFFICER, SECURITY	c. TELEPHONE (<i>Include Area Code</i>) (202) 767-2240/2391
---	---	--

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

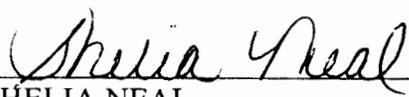
e. SIGNATURE


17. REQUIRED DISTRIBUTION

- a. CONTRACTOR
- b. SUBCONTRACTOR
- c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
- d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- e. ADMINISTRATIVE CONTRACTING OFFICER
- f. OTHERS AS NECESSARY 1226.2, 1227, 5717, 5702

INTELLIGENCE INFORMATION SHEET

1. The intelligence information furnished in connection with this contract may be withdrawn at any time. Upon expiration of the contract, all intelligence material furnished shall be returned to the Naval Research Laboratory, Attn: Code 1221.11. No classified material, regardless of classification, may be retained without prior authorization of the Naval Research Laboratory, Code 1221.11.
2. The contractor shall not release intelligence material to any activity or person of the contractor's organization not directly engaged in providing service under the contract, or to another contractor or sub-contractor, Government agency (including Navy activities, Government, individual, or organization) without the prior approval of the Naval Research Laboratory, Code 1221.11.
3. Intelligence material shall not be released to foreign nationals or immigrant aliens employed by the contractor, regardless of the level of security clearance, without prior approval of the Naval Research Laboratory, Code 1221.11.
4. Intelligence material shall not be reproduced without prior approval of the Naval Research Laboratory, Code 1221.11. All intelligence material shall bear prohibition against reproduction while in custody of the contractor.
5. The contractor shall maintain such records as will permit him to furnish, on demand, the names of individuals who have or have had access to intelligence information in his custody.


SHELIA NEAL
Contracting Officer, Security

UNCLASSIFIED

OPNAVINST S5513.8B

5 APR 1980

01. IDENTIFYING DATA

ID: 08B-03
CL: U
SU: ECM/ECCM, GENERAL
OC: CNO (OP-09N2); DTIC-A
CA: CNO (OP-09N)
OD: 75-03-24
CD: 89-02-15
RD: 91-02-15

02. THREAT/BACKGROUND:

- A. This guidance is applicable in the absence of specific ECM/ECCM program guidance.
- B. Information previously authorized for publication at a lower classification than now required by this guide is not upgraded.

03. MISSION:

A. Definition: Electronic Countermeasures (ECM) is that major subdivision of Electronic Warfare involving actions taken to prevent or reduce the effectiveness of enemy equipment and tactics employing or affected by electromagnetic radiations and to exploit the enemies use of such radiation.

B. Definition: Electronic counter-countermeasures (ECCM) is that major subdivision of Electronic Warfare involving actions taken to ensure our own effective use of electromagnetic radiations despite the enemy's use of countermeasures.

04. FINANCIAL: All budgetary data shall be designated: FOUO (Unclassified upon release to Congress).

05. MILESTONES: IOC dates: C (Declassify after IOC).

06. DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS:

- A. Accuracy (includes direction finding (DF)):
- (1) System range, bearing, range rate: C-OADR
 - (2) Circuitry: C-OADR (where basic system characteristics are specified or are an accumulation).
 - (3) IFF: C-OADR
 - (4) Target classification capability: S-OADR
- B. Control:
- (1) Interface, NTDS: S-OADR
 - (2) Manning requirements: U
 - (3) Data links: S-OADR
 - (4) Infrared, optics: S-OADR

UNCLASSIFIED

OPNAVINST S5513.8B

C. Range:

- (1) Predicted detection: C-OADR
- (2) Operational detection: C-OADR
- (3) Maximum detection: C-OADR
- (4) Target classification versus range capability: S-OADR

D. Resolution:

- (1) Beam patterns: C-OADR
- (2) Target resolution/range/bearing: C-OADR
- (3) Frequency response: C-OADR
- (4) Narrow bandwidth frequency response: S-OADR

E. Signature characteristics:

- (1) Receiving bandwidth: C-OADR
- (2) Transmission bandwidth: C-OADR
- (3) Receiving sensitivity: C-OADR
- (4) Source level: C-OADR
- (5) IR signature information: S-OADR
- (6) Radar cross-section information: S-OADR
- (7) Noise figure: C-OADR
- (8) IR suppression: S-OADR

F. Reliability/availability:

- (1) System reliability/availability demonstrated capability:
C-OADR

- (2) Effectiveness: C-OADR

G. System capability:

- (1) Target capability: S-OADR
- (2) Operational capability with respect to threat environment defined by current intelligence information: TS-OADR
- (3) Power output: C-OADR
- (4) Signal display capacity: C-OADR
- (5) Data storage capacity: C-OADR
- (6) Information rate: C-OADR
- (7) Modes of operation: C-OADR
- (8) IFF: C-OADR
- (9) Response time: C-OADR
- (10) Interface capability for data input to command system:
S-OADR

- (11) Modulation techniques: S-OADR

H. Energy requirements:

- (1) Specific, related to performance parameters: C-OADR
- (2) Total, related to overall system requirements: U

I. Vulnerability:

- (1) Susceptibility to:
 - (a) Countermeasures: S-OADR
 - (b) Counter-countermeasures: S-OADR
 - (c) Detection decoys: S-OADR
 - (d) Motional interference: C-OADR
 - (e) Electromagnetic pulse radiation: C-OADR

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5 APR 1990

- (a) Suppression: S-OADR
- (b) Effects of threat signals in operational environment: S-OADR
- (3) Jamming: S-OADR
- (4) Deception: S-OADR
- (5) Overpressure: S-OADR
- J. Sidelobe canceller techniques:
 - (1) Basic theory: U
 - (2) Application to a specific military system or family of systems: C-OADR

07. OPERATIONAL AND TACTICAL:

A. Seaborne tests and evaluation:

- (1) Specific operational test and evaluation data shall be classified following topics of this guide. Data revealing:
 - (a) Minor deficiencies: C (Declassify when corrected).
 - (b) Major deficiencies: S (Declassify when corrected).
 - 1 Specific: S-OADR
 - 2 General: C-OADR

B. Logistics and support: U (Unless information is revealed requiring classification by other topics of this guide for operational security purposes).

C. Tactics developed for operational use: C-OADR unless information requiring a higher classification by this guide is revealed.

D. Environment requirement and parameters: S-OADR

E. Objectives:

- (1) Specific: S-OADR
- (2) General: C (Declassify 6 years after IOC of equipment involved).
- (3) Tests: S-OADR

F. Infrared deception and suppression related to threat systems in operational environment: TS-OADR

08. HARDWARE:

A. Hardware will be classified only if it in itself reveals classified aspects of the system or if necessary for operational security purposes.

09. OTHER: Not applicable.

10. BRIEF JUSTIFICATION: Not applicable.

11. SECONDARY DISTRIBUTION: U. S. Government and its contractors.

Senior Electrical Engineer (Two Resumes)

Must have at least ten years of demonstrated experience in the design, development, and implementation of electronic warfare (EW) systems for Navy and Marine Corps applications, including RF, millimeter wave, and IR systems. Must have experience on current Navy EW research and development programs. Must have a working knowledge on the interaction and use of off board decoys in missile-ship engagements. Must have current knowledge and experience with directed energy technologies. Must have extensive experience with DoD operational, research and development, and intelligence organizations in directed energy weapons technology. Requires current and active participation with Tri-Service technology advisory committees. Must have at least a BS in electrical engineering. An advanced degree is preferred. Must have a Top Secret clearance on the contract award date.

Senior Scientist (One resume)

Must have at least 20 years of direct experience in laboratory/field research, development, test, and evaluation related to electromagnetic, electronic, and electro-optical sensor systems for U.S. Navy warfare applications. Must have a working knowledge on the interaction and use of off board decoys in missile-ship engagements. Must have demonstrated capability of performing detailed analysis of sensor system design and of planning and conducting laboratory and field characterization and radiometric measurements utilizing a wide variety of instrumentation. Must have demonstrated experience in developing and evaluating accurate measurement techniques. Must have demonstrated experience in organizing and conducting large-scale field tests, such as the evaluation of Advanced Technology Demonstration systems. Must have experience with NATO-related programs and with the foreign materiel acquisition process. Must have current experience on Navy EW research and development programs. Must have at least an MS in physics or electrical engineering. Must have a Top Secret clearance on the contract award date.

Senior Systems Engineer (One resume)

Must have at least 20 years of experience in experimental research and systems engineering programs. Must have current experience with Navy-related EW and RF countermeasure research and development programs, particularly with the Nulka decoy program. Must have at least ten years and current experience in utilizing systems engineering techniques and procedures for the development of systems for the Navy. Must have experience with the development of systems engineering documents. Must have at least a BS degree in electrical or aerospace engineering. An advanced degree is preferred. Must have a Top Secret clearance on the contract award date.

Senior Analyst (Two resumes)

Must have a minimum of two years of experience in performing modeling and simulation of RF effects for U.S. Navy applications. Must have current experience in performing model validation studies and analyses, including statistical and Monte Carlo analysis, experimental error analysis, and model sensitivity analysis. Must have current experience with UNIX-based computer hardware and software systems. Must have at least an M.S in physics, electrical engineering, or mathematics. A PhD is highly desired. Must have a Top Secret clearance on the contract award date.

Electrical Engineer/Physicist (One resume)

Must have at least three years of experience in sensor and system laboratory and field test and evaluation. Must be very familiar with a wide variety of sensor system characterization tests. Must be intimately familiar with accurate radiometric calibration and data collection and reduction techniques for electronic and/or electromagnetic sensors. Must have experience in the integration of measurement suites for land, ship, and air platforms. Must have experience in conducting experiments from land, ship, and air platforms. Must have at least an MS in physics or electrical engineering. Must have a Top Secret clearance on the contract award date.

Senior Mechanical Engineer (One resume)

Must have at least ten years of experience in supporting sensor and system laboratory and field test and evaluation. Must have at least five years of experience in the design and development of mechanical fixtures for integrating measurement systems into land, ship, and air platforms. Must have experience in conducting experiments from land, ship, and air platforms. Must have at least an MS in mechanical engineering. Must have a Top Secret clearance on the contract award date.

Senior Electronics Technician (Two resumes)

Must have at least ten years experience in supporting the design, development, test, and evaluation of a wide variety of electronic and electromagnetic sensors and systems. Must have extensive experience in setting up and conducting laboratory and field tests; in the design and fabrication of electronic and electro-mechanical components and subsystems; and in the integration of measurement suites for land, ship, and air platforms. Must have at least a Secret clearance on the contract award date.

Electronics Technician (One resume)

Must have at least one year of experience in the operation, troubleshooting, and repair of a wide variety of electronic and electromagnetic sensors and supporting instrumentation. Must have knowledge and experience in operating and maintaining support equipment such as vacuum systems, cryogenic equipment, data analysis workstations, and electrical and electronic test equipment. Must have experience in setting up and conducting laboratory and field tests; in the design and fabrication of electronic and electro-mechanical components and subsystems; and in the integration of measurement suites for land, ship, and air platforms. Must have at least a Secret clearance on the contract award date.

Senior Security Specialist (One resume)

Must have at least ten years of experience in DoD security policies and procedures. Must have at least ten years experience with Top Secret and Special Access Program security policies and procedures. Must have current experience with Navy EW research and development programs. Must have specialized security training. Must have a Top Secret clearance on the contract award date.

Security Specialist (One resume)

Must have at least two years of experience in DoD security policies and procedures. Must have a working knowledge of Top Secret and Special Access Program security policies and procedures. Must have current experience with Navy EW research and development programs. Must have specialized security training. Must have a Top Secret clearance on the contract award date.

Technical Writer (One resume)

Must have at least five years of experience in the preparation, review, and formalization of technical reports. Must have current experience in the formalization of technical reports and conference proceedings. Must be experienced in security procedures and classified document tracking and maintenance. Must have at least a BA degree. Must have a Top Secret clearance on the contract award date.