

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE OF PAGES
2. CONTRACT NUMBER	3. SOLICITATION NUMBER	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED	6. REQUISITION/PURCHASE NUMBER	
7. ISSUED BY		CODE	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 \_\_\_\_\_ 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 \_\_\_\_\_ until \_\_\_\_\_ local time \_\_\_\_\_ (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	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS
		AREA CODE	NUMBER	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 <i>(See Section I, Clause No. 52.232-8)</i>	<input type="checkbox"/> 10 CALENDAR DAYS (%)	<input type="checkbox"/> 20 CALENDAR DAYS (%)	<input type="checkbox"/> 30 CALENDAR DAYS (%)	<input type="checkbox"/> CALENDAR DAYS (%)
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14. ACKNOWLEDGMENT OF AMENDMENTS <i>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</i>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

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

**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		28. AWARD DATE

*(Signature of Contracting Officer)*

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

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

<b>ITEM NUMBER</b>	<b>SUPPLIES/SERVICES</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>ESTIMATED COST PLUS FIXED FEE</b>
0001	The Contractor shall conduct research in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>TOTAL ESTIMATED COST PLUS FIXED FEE</b>			\$	\$

\* *Not Separately Priced*

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

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

**C-1 STATEMENT OF WORK**

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

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

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

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

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

**SECTION E  
INSPECTION AND ACCEPTANCE**

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

**FAR CLAUSE    TITLE**

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

**DFARS CLAUSE    TITLE**

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

**E-2 INSPECTION AND ACCEPTANCE**

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

**SECTION F  
DELIVERIES OR PERFORMANCE**

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

**FAR CLAUSE    TITLE**

52.242-15       -    Stop-Work Order (AUG 1989) - Alternate I (APR 1984)

52.247-34       -    F.O.B. Destination (NOV 1991)

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

(a) The term of this contract is from date of contract award through twelve (12) months. Option periods, if exercised by the Government shall commence upon the completion of the preceding period of performance and continue through twelve (12) months

(b) The principal place of performance of this contract shall be at the contractor's facility.

**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](mailto:security-group@nrl.navy.mil)

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

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

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email [publicaffairs@nrl.navy.mil](mailto: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
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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 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.

A DD Form 250 "Material Inspection and Receiving Report" is required only with the final invoice.

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

**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 39,000 hours of direct labor for the base year and 39,000 hours for each option year if exercised by the Government, 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 3,250 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 for each year is as follows:

<u>Labor Category</u>	<u>Hours</u>
Program Manager/Senior Scientist	2,080
Lead Engineer	2,080
Senior Research Engineer	7,280
Research Test Engineer	3,120
Research Engineer	8,320
Research Engineer/Analyst	4,160
Senior Research Analyst	3,640
Research Analyst	8,320

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

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

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

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

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

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

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

**First Option**

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

**Second Option**

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

**Third Option**

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

#### Fourth Option

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

#### H-7 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 (JAN 2005)
- 52.211-15 - Defense Priority And Allocation Requirements (SEP 1990)
- 52.215-2 - Audit And Records-Negotiation (JUN 1999)
- 52.215-8 - Order Of Precedence - Uniform Contract Format (OCT 1997)
- 52.215-10 - Price Reduction For Defective Cost Or Pricing Data (OCT 1997)
- 52.215-11 - Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997)
- 52.215-12 - Subcontractor Cost Or Pricing Data (OCT 1997)
- 52.215-13 - Subcontractor Cost Or Pricing Data Modifications (OCT 1997)
- 52.215-14 - Integrity Of Unit Prices (OCT 1997)
- 52.215-15 - Pension Adjustments And Asset Reversions (OCT 2004)
- 52.215-17 - Waiver Of Facilities Capital Cost Of Money (OCT 1997)  
( *will be included if the successful offeror does not propose facilities capital cost of money*)
- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)
- 52.215-19 - Notification Of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements For Cost Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (OCT 2004)  Offeror elects to waive the evaluation preference.
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-39 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (DEC 2003)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)

- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
(will be included if the successful offeror is a small business or a non-profit organization)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (OCT 2003)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.233-4 - Applicable Law For Breach Of Contract Claim (OCT 2004)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-7 - 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)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.246-23 - Limitation Of Liability (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)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (APR 2003)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7013 - Duty Free Entry (JAN 2005)
- 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)
- 252.227-7030 - 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 and enclosure (1) –9 and 5 Pages respectively, With Exhibit A - DD Form 1423, Contract Data Requirements List, 7 Pages.
- J-2** Attachment (2 ) - DD Form 254, Contract Security Classification Specification, Ser 002-05 Dated 2005/03/17 2 Pages.
- J-3** Attachment ( ) – Accounting and Appropriation Data- 1 page. \*  
(\* To be included at time of award)

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

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

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

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

**K-2 Representations, Certifications, and Other Statements of Offerors or Respondents**

Prospective contractors must complete electronic representations and certifications at <http://orca.bpn.gov> in conjunction with required registration in the Central Contractor Registration (CCR) database. The representations and certification must be updated as necessary, but at least annually, to ensure they are kept current, accurate and complete. (See FAR Subpart 4.12).

**K-3 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 54710  
The small business size standard is. 500

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

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

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

<http://www.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)
52.204-8	-	Annual Representations and Certifications (JAN 2005)
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)
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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: 3230DB  
Naval Research Laboratory(NRL)  
4555 Overlook Avenue, S.W.  
Washington, D.C. 20375

Solicitation/RFP No. N00173-05-R-DB01  
Closing Date: 20 Apr 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)

(a) *Exceptions from cost or pricing data.* (1) In lieu of submitting cost or pricing data, offerors may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable.

(i) *Identification of the law or regulation establishing the price offered.* If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) *Commercial item exception.* For a commercial item exception, the offeror shall submit, at a minimum, information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include--

(A) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to

which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities.

(B) For market priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.

(C) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offeror's determination of the prices to be offered in the catalog or marketplace.

(b) *Requirements for cost or pricing data.* If the offeror is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The offeror shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

(2) As soon as practicable after agreement on price, but before contract award (except for unpriced actions such as letter contracts), the offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed in FAR 15.406-2.

**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 52.222-18 – 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) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price.

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

Technical Subfactor (1) Qualifications of Project Personnel: The offeror should provide convincing proof that it has, or has the ability to obtain, personnel with relevant experience in the task areas described in the Statement of Work. These are highly specialized fields and personnel without actual experience in these areas are not acceptable. The Statement of Work sets forth the desired qualifications. In particular, the proposal should indicate specific persons and their qualifications and experience in each task area of the Statement of Work, and the amount of effort each will be performing on the contract. It is essential for the offeror to demonstrate that all key personnel will be capable of obtaining a secret clearance. The proposal will include each person's education level, experience (both general and project related), and software and hardware specific knowledge when appropriate. The proposal must show the availability of sufficient key project professional and technical personnel by the prime contractor as well as any proposed subcontractors and consultants.

Technical Subfactor (2) Company Experience: Proposal should provide a narrative description of company experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show: (1) the relationship between the company's experience and the tasks required under the Statement of Work, (2) prior or current programs in the task areas, and (3) the project schedule, plans for each task, and approach to each particular scientific task. Prior experience should be identified by citing contracting agency, period of performance of the contract, and a summary of the nature of the work.

Technical Subfactor (3) Management Capability: The proposal must provide a narrative description of company management experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show previous performance at meeting instrument performance, cost and schedule goals on these projects.

**PAST PERFORMANCE INFORMATION**

(a) Offerors shall submit the following information as part of their proposal. *(Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.)* List the last two (2) contracts or subcontracts completed by the offeror or predecessor companies during the past three (3) years for services similar in nature to this requirement. Include in the two (2) contracts any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

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

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

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

**L-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. In addition, the contractor shall provide a soft copy of the cost proposal readable by Excel. 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. The Government estimates material and travel cost to be \$550K and \$75K respectively for each year. The offeror shall include the estimated material and travel cost plus applicable indirect cost in their proposal.

## **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 factors are listed in descending order of importance and when combined are more important than the cost factor.

**M-2-1. Qualifications of Project Personnel:** The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with: (1) the appropriate qualifications set forth in the Statement of Work; (2) actual relevant experience in the task areas set forth in the Statement of Work; and (3) the ability to obtain a secret clearance prior to commencing work.

(  
(2) **Company Experience:** The proposal will be evaluated on the offeror's demonstrated company experience in performing projects requiring scientific and technical effort with is closely similar or related to the technical and scientific efforts set forth in the Statement of Work

(3) **Management Capability:** The proposal will be evaluated on the offeror's demonstrated management ability and success in managing projects of similar complexity and duration as that set forth in the Statement of Work.

### **(4) PAST PERFORMANCE**

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except

evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

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

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

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

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

## **Statement of Work**

### **Next Generation EO/IR Systems**

#### **1.0 INTRODUCTION/BACKGROUND**

The Optical Sciences Division of the Naval Research Laboratory carries out a variety of research and development activities in support of Naval aviation. This analytic and experimental research includes: (a) research, development, test, measurement and evaluation of self-protection systems for Navy and Marine Corps aircraft, including reconnaissance systems and associated sensor systems; (b) identification of requirements for developing solutions to threat systems, including development of technical specifications to accommodate aircraft platform requirements; (c) technical insertion of new technologies into current and near term systems in order to provide solutions to advanced threat systems; (d) analysis and evaluation of promising technology, including development of one-of-a-kind measurement and evaluation processes; and (e) technical management and engineering support to aid the transition of new technologies into System Development and Demonstration.

#### **2.0 SCOPE OF WORK**

The purpose of the contract is to acquire the highly skilled personnel possessing the qualifications described in enclosure (1), equipment and facilities to support the Optical Sciences Division with a comprehensive, integrated program of technical engineering, independent assessments, engineering analysis, and research activities pertaining to the development, measurement, and evaluation of new and existing airborne systems and avionics for Navy and Marine Corps aircraft into the future. The required engineering efforts and areas of technical investigation will be broad, but will emphasize the development of electronic systems and embedded software to facilitate the operation and optimum exploitation of visible, electro-optic, and infrared (EO/IR) sensors and systems. The function of these systems will include, but may not be limited to, reconnaissance systems and equipment and platform survivability systems and equipment. Additional effort will be directed at identifying and evaluating what reconnaissance capabilities can be achieved with the addition of low-cost sensor suites and the use of other existing or planned sensors whose primary function is not reconnaissance. Initial candidate aircraft will include, but may not be limited to, the P-3, AV-8B, F/A-18, and JSF aircraft as well as unmanned experimental aircraft.

Technical work under this action will require in-depth expertise in current implementation of complex, high resolution, visible and IR sensors similar to those which were implemented in the Navy's Shared Reconnaissance Pod (SHARP) and Full Capability Pod (FCAP) programs. The overall objectives of this program are (a) the development of EO/IR systems including but not limited to Directed Infrared Countermeasures (DIRCM) and

airborne reconnaissance systems; (b) the identification and development of state-of-the-art technologies which will provide solutions to current or projected Fleet survivability problems; and (c) the implementation, evaluation, and transition of these technologies into engineering development programs.

The Government anticipates that the work to be performed under this contract will be performed at the contractors site, the Naval Research Laboratory (NRL), the Navy Center at Patuxent River, and other government sites in pursuit of NRL objectives.

Deliverables required under this contract shall include monthly cost and progress reports; a final technical report; both computer and non-computer based algorithms, source code, executable code and documentation; design drawings, documentation, plans and manuals; and task specific technical reports in accordance with attached DD Form 1423s.

### 3.0 TASKS

#### TASK 3.1 -- SOFTWARE DEVELOPMENT AND TESTING OF VISIBLE, ELECTRO-OPTICAL, AND INFRARED (VIS/EO/IR) SYSTEMS

The Contractor shall complete the subsystem development and integration necessary to support Navy flight testing of the SHARP System. The contractor shall develop algorithms for functions not available in commercial products. Examples of such algorithms are geo-registration algorithms referenced to stored terrain data bases, stitching of video frames into a mosaic with minimal distortion, and development of automatic modes of operation for collection of airborne imagery. The contractor shall develop the software for exercising the full range of hardware capabilities including automode capabilities, and shall verify these capabilities in laboratory tests. The Contractor shall complete the development of the subsystems for FCAP and integrate these subsystems into the Tactical Air Reconnaissance Pod. The Contractor shall develop hardware and software solutions necessary to support the integration of VIS/EO/IR sensor systems into the NRL P-3 research aircraft, Navy F-18E/F, Navy QF-4, and Navy F-14 or into pods which could be carried by these aircraft. The development and integration work will include in air collection of data from reconnaissance sensors such as the CA-270, CA-263, CA-295, CA-279, and DB-110 cameras and the display of data on NRL screening stations specifically engineered for this task.

##### Task 3.1.1 – Develop Image Screening and Collection Algorithms

The Contractor shall develop algorithms for effective screening of both still and video frames of imagery for real time exploitation and analysis. These algorithms shall be developed only in those cases where commercial products are not available. The contractor shall optimize the display for ease of use and clarity of presentation to the image analyst. The purpose of these displays shall be to facilitate target detection and identification and to provide simple means of extracting small image sections for rapid image transmission. The underlying principles of the algorithms shall be fully described in technical reports submitted upon completion of each task.

### Task 3.1.2 – Develop Embedded Software

The Contractor shall develop embedded software for the real time operation and control of VIS/EO/IR electronics systems and subsystems utilizing to the greatest extent possible Commercial-Off-The-Shelf hardware and Real-Time Operating System application development environments. The contractor shall develop applications utilizing vxWorks to control software for the following interfaces and components: MIL-STD-1553; SVME-179; SVME-783; MU1119/A Memory Unit; Honeywell Embedded GPS/INERTIAL navigational unit; CA-263/270/295 Sensors; DB110 Sensor; Advanced Recce Compression Hardware (ARCH) suite; DCRSi tape recorder; Calculex Solid State Recorder; L3Com STAR solid state recorder; and MIDL Common Data Link (CDL).

### Task 3.1.3 – Software Integration

The contractor shall develop software for integration of VIS/EO/IR systems with Navy tactical aircraft, including but not limited to F/A-18 E/F, AV-8B, V-22, P-3, and UAV aircraft such as Dragon Warrior, Dragon Eye, and other developmental systems. Integration shall include software development for:

- Integration of digital framing cameras with Reconnaissance Management Systems (RMS)

  - Integration of RMS systems with aircraft mission computers, TAMPS, CDL, INS, Recorders and Environmental Control Systems (ECS).

  - Real time autonomous control of digital framing cameras

  - Custom electronics with very high bandwidths circuits.

## TASK 3.2 -- RESEARCH, ENGINEERING, ANALYSIS, MEASUREMENT, AND EVALUATION OF ADVANCED TECHNOLOGY VIS/EO/IR SYSTEMS AND SUBSYSTEMS

The Contractor shall participate in the analysis of (a) current capabilities, (b) the shortfalls of existing systems, (c) the documentation of requirements, and (d) analysis/evaluation of alternatives in pursuit of the NRL Advanced Technology program mission and goals. The subtasks within Task 3.2 shall be performed on a continuing basis throughout this program to provide periodic updates to the analyses and recommendations to ensure that any development programs initiated as a result of this effort are optimal. Efforts associated with this task shall include the following Tasks:

### Task 3.2.1 – Engineering Evaluations based on Threat Documents

The Contractor shall review and analyze mission profiles and Intelligence Agency threat documents relevant to Naval aircraft. The analysis shall include an engineering evaluation relative to the adequacy of existing onboard avionics systems to meet currently-deployed and projected threats. This analysis shall include assessments of the limitations imposed on aircraft mission profiles due to existing and projected threats, and the consequent impact on on-board VIS/EO/IR systems to achieve their performance capabilities.

### Task 3.2.2 – Engineering Evaluations of Existing Capabilities

The Contractor shall review existing capabilities with the Navy, other services, and industry to identify cost-effective modifications or upgrades to address mission and avionics deficiencies. The Contractor shall identify the specific performance deficiencies, both mission degradation and platform survival, and provide an analysis of the technical

potential for upgrades of the existing systems to reduce or eliminate the deficiencies. The Contractor shall provide an analysis of the cost, schedule, and performance tradeoffs between the likely alternatives.

#### Task 3.2.3 – Assessment of New Avionics Systems

The Contractor shall review current programs, within the Navy and other Services, for addressing the deficiencies due to threat systems and shall identify any probable shortcomings. The Contractor shall also assess new technologies yet to be incorporated into systems addressing the threats and provide an analysis of the impact of introducing new VIS/EO/IR systems. This analysis of both the current programs and new technologies shall include cost, schedule and performance assessments. The contractor shall then develop a set, or sets, of plans for developing engineering solutions utilizing these new technologies. These plans shall include identification of any deficiencies in the measurements and analyses needed to provide firm support of the new solutions, and shall prepare a set, or sets, of plans for measurement and analysis programs to correct these deficiencies. The contractor shall perform the measurements and analyses as directed by the COR.

#### Task 3.2.4 – Alternative Technologies

The Contractor shall review technologies other than VIS/EO/IR to assess their potential for addressing the identified deficiencies. The Contractor shall examine the maturity of these technologies, their suitability for use on the platforms of interest, their performance capabilities, and the likely cost of and schedule for their introduction. The Contractor shall perform analyses, tests, and measurements where necessary and appropriate to achieve a definitive assessment. Based on this analysis, the Contractor shall provide a recommendation on the most cost effective course that the Navy should pursue.

#### Task 3.2.5 – Provide Support Documentation

The Contractor shall identify and delineate those threat systems having deficient threat solution requirements documents. Based on the capabilities that can be developed as identified in the preceding analyses, the Contractor shall develop and present to the Contracting Officer Representative (COR) (a) a priority-based ordering of the deficient threat solution requirements documents, and (b) a detailed plan and rationale for addressing these documentation deficiencies. Upon direction from the COR, the Contractor shall provide draft versions of such documentation as is necessary to support decisions for transitioning those new technologies capable of addressing the deficiencies noted above into the next stage of development. These documents shall include drafts of a Mission Needs Statements, Operational Requirements Documents, and Engineering Development Plan, and a Test and Evaluation Master Plan.

### TASK 3.3 – ENGINEERING, ANALYSIS AND EVALUATION OF ADVANCED TECHNOLOGY PROGRAMS TO FACILITATE TRANSITION TO PRODUCTION

The Contractor shall provide engineering support and technology transfer support to facilitate transition of NRL developed systems to production. It is anticipated that upon successful demonstration of systems such as SHARP and FCAP, that they will be reproduced in quantities to fulfill current Naval mission requirements. The Contractor will facilitate any and all efforts to expedite the transfer of the technology to the manufacturer

of such EO/IR systems demonstrated at NRL. The contractor shall perform the planning, measurements, and analyses necessary to support the successful transition of these technologies

#### Task 3.3.1 -- Evaluation Of Technical Alternatives

The continuing development of radar, electronic warfare sensors, acoustic sensors, and magnetic sensors and systems provides a set of system options for Naval aircraft whose collected data may complement the data collected from EO/IR sensors. The Contractor shall examine methods for effective utilization of these sensor systems in coordination with EO/IR systems. The contractor shall assess what tradeoffs can be made in the design of new EO/IR systems to reduce cost, improve usefulness, or otherwise take advantage of the presence of other sensor systems. The Contractor shall also assess development programs and new technologies in these disciplines that would improve their system performance and be alternatives to EO/IR systems. The contractor shall assess the potential impact of these developments on the prospects for introducing EO/IR systems, shall identify weaknesses and deficiencies in their performance and implementation, and shall provide a relative assessment of the use of EO/IR systems versus these alternative technical approaches.

#### Task 3.3.2 -- Technical Assessment Of Research & Development (R&D) Programs

The Contractor shall perform an analysis of each EO/IR system that is a candidate for transition to assess its technical maturity, its operational suitability, and the probable cost and schedule for effecting a transition. The analysis of technical maturity shall address all the technical development areas of the system and shall develop the rationale and Technical Readiness Level rating for each area. The contractor shall assess the operational suitability by examining the candidate platforms and missions to determine how well the EO/IR system supports the mission requirements. The Contractor shall also assess the reliability and maintainability of the system. The Contractor shall develop draft plans for any required engineering development, providing the COR with an estimate of the schedule and cost for achieving an appropriate production design. Pursuant to this task, the Contractor shall review the formal documentation required for transition of technology programs into the next stage of development. The technical and engineering evaluations shall be delivered as separate reports for each EO/IR system.

#### Task 3.3.3 -- Risk Reduction Engineering

Based on the measurements, technical analysis, and threat capabilities previously addressed in this document, the Contractor shall develop a risk assessment of the components of the EO/IR systems and prepare a set of lower risk technical alternatives. These alternatives shall be assessed for their impact on the system, including performance, reliability, and cost. The Contractor shall develop a set of metrics and milestones for the development programs that would guide the decisions for selecting a lower risk alternative. Efforts associated with this task shall include a modeling and simulation capability suitable for reconnaissance systems. The contractor shall develop plans and recommendations on how such a modeling and simulation capability could best be utilized to reduce design risks and to optimize the number and types of field tests required.

#### Task 3.3.4 – Development Research and Engineering

The Contractor shall provide research and engineering support for the required system transition program. The support shall include measurements and analysis to support the engineering development program developing and demonstrating a design suitable for production. The Contractor shall also develop plans for testing of components, subsystems, and systems as required to support continuing transition of the technology. The Contractor shall perform laboratory measurements on components and subsystems as required, shall analyse the results of these efforts, and shall prepare results describing these activities. The Contractor shall also participate in system field tests by developing test plans, calibrating instrumentation, installing equipment into aircraft, operating equipment during tests, analysing test results, and preparing reports on the tests.

#### TASK 3.4 – RESEARCH, ENGINEERING, ANALYSIS, DESIGN, DEVELOPMENT, AND TEST OF UNMANNED AERIAL VEHICLE (UAV) PAYLOADS

The Contractor shall participate in the analysis of (a) current capabilities, (b) the shortfalls of existing systems, (c) the documentation of requirements, and (d) analysis/evaluation of alternatives for Navy UAVs. The Contractor shall provide detailed designs necessary to meet rapid prototyping goals for unique, one-of-a-kind systems. In addition, the Contractor shall be responsible for development of UAV hardware and software and for their testing. As UAV payload systems reach a level of maturity to support transition of the system to industry or the Fleet, the contractor shall provide engineering support and documentation necessary to support a smooth transition. Following transition, the contractor shall provide support until transition has reached a sustaining level and can be considered complete.

##### Task 3.4.1 – Concept of Operations, Requirements Analysis and Trade-Off Studies

Currently operational UAV systems are expensive, manpower intensive, limited in capability and controlled at a fairly high level in the command structure. Their ability to affect the battle in real time is limited by these factors. Critical in the advent of UAVs for military applications is their integration into evolving battlefield operations. The contractor shall work with the users of UAV systems and develop a concept of operations for future systems design and integration. The Contractor shall participate in the review of existing capabilities with the Navy, other services, and industry to identify cost-effective alternate solutions to mission deficiencies. The Contractor shall develop recommendations for technology insertion to incorporate new or improved capabilities. The Contractor shall participate in the assessment of the impact of introducing new or modified systems into current operational systems or into projected systems. The Contractor shall conduct research studies which may include topics such as: all weather, day and night operation, sensor integration for offboard and onboard processing, power supply alternatives, and bandwidth reduction analysis.

##### Task 3.4.2 – Detailed Design and Design Support

UAV development for front line, battlefield support of U.S. forces has increased and will continue to do so in the future. The use of the UAVs provides a significant intelligence boost and a stealthy, real time support function to the troops on the ground that can't be realized through the use of manned systems. NRL is developing UAV systems, which integrate complex EO/IR sensor payloads with onboard navigation, and control systems. These UAVs will operate in an autonomous or manual mode and will utilize wireless data

link for transmission of data in real time to new or existing in-service ground stations. The Contractor shall design UAV airborne payloads and ground station systems/interfaces to include circuit boards, chassis, and cabling necessary to achieve operational requirements.

#### Task 3.4.3 – Hardware and Software Development

Upon approval of design concepts, NRL will embark on the development and test of prototype systems. The contractor shall be responsible for developing and integrating prototype hardware and software necessary to meet design goals. The Contractor shall develop plans for the prototype hardware to pass through the Naval Air Systems Command Flight Certification Process which is outlined in OPNAV 3710. Extensive experience with UAV hardware and software development is required along with experience in the design and development of autonomous systems including payload and flight control systems. In addition to those previously required, deliverables under this subtask shall include hardware and software documentation, presentations necessary to support detailed design or program reviews, test plans and reports, and the data package required for flight certification.

#### Task 3.4.4 – Fleet Transition and Interim Support

Following development of prototype UAV systems, NRL will transition the equipment to either the Fleet for battlefield employment/further testing or to industry for further development or production. The contractor shall support all avenues of system transition with on-site engineering support and documentation. Documentation shall include but may not be limited to operator manuals and presentations to include video documentation of system operation and maintenance. Contractor support shall continue until the system has completely transitioned from NRL.

### TASK 3.5 -- PROTOTYPE DESIGN, DEVELOPMENT, AND INSTALLATION

To facilitate the development of new sensor systems and to provide a means to evaluate new and/or refurbished systems, the Contractor shall design and construct prototype VIS/EO/IR reconnaissance, or other avionics system installations, for both NRL research-configured P-3 aircraft and for various pod systems suitable for flight on a variety of tactical Naval aircraft as well as unmanned aircraft. Efforts associated with this task shall include the following:

- Design, fabrication, and installation of unique, one of a kind devices for flight testing, demonstration or concept exploration.

- Design, fabrication, and installation of unique ground support equipment.

- Modification of aircraft for testing of advanced technology VIS/EO/IR systems and subsystems.

- Installation of equipment on aircraft to meet test, measurement and evaluation goals.

- Modifications, refurbishment, payload design, payload alteration, aircraft installation and de-installation, maintenance, and fabrication of unique one-of-a-kind systems.

- Design and mounting of environmental sensors, threat warning sensors, pointer tracker systems, reconnaissance systems, cameras, multi-spectral sensors and various instrumentation packages to pods, and R&D platforms on manned and unmanned aircraft.

Initiation and approval of necessary flight certifications for aircraft payloads, pod designs, and pod modifications including consulting services for engineering analysis of new designs and modifications to expedite the certification process. Development and control of engineering drawings and analysis for fabrication of new designs, modifications, and refurbishment.

### TASK 3.6 – RESEARCH, ENGINEERING, TEST, MEASUREMENT AND EVALUATION OF FOREIGN EXPLOITATION SYSTEMS AND SUB-SUBSYSTEMS.

Task 3.6.1 – Interface with Foreign Governments to share research, development, testing, and evaluation concepts, data, and planning. NRL frequently interfaces with Canada, United Kingdom, Australia, and New Zealand to share advanced EO/IR technology, test, measurement and evaluation methodology, and potential applications of system development on current and near term country-unique aircraft platforms. The Contractor shall assist NRL with coordination of international memorandums of understanding, project arrangements, requirements definition and plans. Additionally, for purposes of risk reduction, the contractor shall schedule, coordinate, and conduct joint test, measurement, and evaluation efforts with the ABCA 4 countries.

Task 3.6.2 – Modeling and Simulation for Foreign Development and Analysis Programs  
The Contractor shall assist NRL with developing modeling and simulation of DAS and threat systems for use in Cost and Operational Effectiveness Analysis (Analysis of Alternatives). Additionally, the contractor shall assist NRL with developing “flight-test candidate” systems and technologies for future situational awareness displays, concepts and technologies.

Task 3.6.3 – Foreign Cooperative Test, Measurement and Evaluation  
The Contractor shall assist NRL with engineering analysis, independent evaluations, and resolution of programmatic issues for Foreign Cooperative Test (FCTs) programs. The contractor shall design, structure and conduct FCT testing on a variety of foreign advanced technology products/systems and devices.

### TASK 3.7 – TECHNICAL PROGRAM SUPPORT

#### Task 3.7.1 – Earned Value Management

Earned Value Management (EVM) principles and techniques are used to manage research, development, and test and measurement programs. The Contractor shall assist NRL in transitioning current projects and programs to the Earned Value Management and Analysis process. This includes:

- Training of NRL Staff.

- Development of program baseline plans that identify tasks, defines the schedule and assigns the resources.

- Establishment of baseline metrics to measure cost, schedule and technical performance goals.

- Establishment of the project critical path and identification of task interdependencies.

#### Task 3.7.2 – Compliance with DoD 5000 Series (January 2001)

The Contractor shall assist NRL with program management functions and tasks in order to transition Concept & Tech Development Programs to System Development & Demonstration (SDD). This tasking includes development of budget submissions, briefings, threat studies and analysis, engineering assessments, assistance with preparation of Mission Need Statement (MNS) and Operational Requirements Document (ORDs), providing input for Acquisition Strategy and Plans, and development of risk mitigation plans.

#### 4.0 - Personnel Qualifications

Detailed Personnel Qualifications are specified in enclosure (1).

## Personnel Qualifications

**A. Senior Scientist:** Individuals should have at least 15 years experience in research, engineering and technical support for advanced development programs in EO/IR Systems, and at least 10 years experience in aircraft and system test, measurement, and evaluation. Individuals must have substantial experience in avionics weapons systems research, development, testing and acquisition requiring knowledge of the programmatic requirements of DOD 5000 series directives, strategic planning, and advanced management. Individuals must also have direct experience as well as staff management experience in performing hardware development and/or data analysis in Electronic Warfare or Avionics Systems and demonstrated experience in developing and writing planning documents such as Test and Evaluation Master Plans (TEMP), Mission Needs Statements (MNS), and Operational Requirements Documents (ORD). Individuals must possess a PhD in a physical science or technical management. A MS in a physical science or technical management plus an additional 5 years of related experience may be substituted for a PhD.

**B. Senior Systems Engineer:** Individuals should have at least 15 years experience leading major research, development, test, and evaluation programs, and at least 15 years experience in systems planning, research, development and engineering, including measurement and evaluation of complex systems and equipment. Individuals must have in-depth knowledge of weapons system acquisition including engineering development, production and test and evaluation of Naval weapons and systems. Knowledge is required of DoD, OSD, OPNAV and NAVAIR organizations along with a working knowledge of systems acquisition reform initiatives and related documentation requirements. Experience should include demonstrated ability to formulate, lead and manage a multi-disciplined team toward the efficient and successful accomplishment of stated goals and objectives. Individuals must possess a MS in Systems Engineering or Systems Management. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**C. Senior Research Engineer, I:** Individuals should have at least 10 years experience in providing engineering and technical support to research, development, test and evaluation of advanced development programs, including EO/IR programs in real time reconnaissance and electronic warfare. Individuals must have at least 10 years experience in use of Electronic Combat or Avionics systems aboard larger Navy aircraft such as the P-3, E-2C, or S-3. Individuals must also have substantial technical, engineering, and management experience for DOD acquisition programs, including experience in the milestone review process, configuration control, contract management, and budgetary and financial planning documents such as Five-Year Defense Plans and Program Objective Memoranda. Individuals must also have direct experience in planning, coordinating and conducting technical and engineering measurement evaluations for

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advanced technology directed energy EO/IR systems as well as advanced development reconnaissance systems. Individuals must have a MS in Engineering. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**D. Senior Research Engineer, II:** Individuals should have at least 10 years experience in providing engineering and technical support to research, development, test, and evaluation for advanced technology programs. Individuals must have at least 10 years experience in planning, scheduling, coordinating measurement and evaluation of complex EO/IR systems and equipment, including open-air flight tests of complex advanced technology systems and equipment. Individuals must have substantial direct experience in Electronic Combat or Avionics programs or systems engineering for Naval aircraft related programs, including experience in engineering support for airborne Research and Development (R&D) projects in RF and EO/IR technologies. Individuals must have experience in developing system testing programs including knowledge of foreign development and testing of aircraft systems and equipment and knowledge of US and foreign government test facilities, processes and infrastructure. Individuals must have a MS in Engineering. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**E. Research Engineer:** Individuals should have at least 10 years experience in providing engineering and technical support to advanced technology research, development, test, and evaluation programs for real time avionics systems. Individuals should have at least 10 years experience leading and/or managing the research, development, measurement, integration and evaluation of either reconnaissance or electronic combat systems for naval aircraft. Individuals must also have substantial experience in planning, scheduling, coordinating and conducting measurement and evaluation programs, and experience in establishing and coordinating policy for electronic combat or avionics programs. Individuals must have expertise in EO/IR advanced systems research, development and testing, operations of a simulation facilities and managing major avionics system programs. Individuals must have a MS in Engineering. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**F. Senior Research Analyst:** Individuals should have at least 10 years experience in providing analytical and technical support to research, development, test and evaluation for advanced development programs. Individuals must have substantial experience in the later stages of system development specifically in the area of measurement, testing, evaluation and transition to SDD. Individuals must have experience integrating of Electronic Combat and avionics systems into tactical aircraft such as F-14 and F/A-18 and in coordinating introduction of the avionics into the Fleet. Individuals must have experience planning, coordinating and directing flight tests, and developing TEMPS and other test and evaluation documents. Individuals must also have experience in the exploitation of foreign tactical threats to naval aviation and in the design and the testing of

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current and developmental systems to counter these threats. Individuals must have a MS in Engineering or Science. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**G. Research Analyst I:** Individuals should have at least 5 years experience in providing analytic and technical support to research, development, test and evaluation for advanced development programs. Individuals must have substantial experience in planning, development, coordination and directing major test, evaluation, and measurement programs. . Individuals must also have experience in planning, coordinating and execution of aircraft and systems operational test and evaluation programs. Individuals must have experience providing research, engineering, management, and test support to aviation programs such as V-22, CH-60 and H-1 upgrade programs. Experience as a pilot is highly desirable. Individuals must have a BS in Engineering or Science. Aa Associate degree in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the BS.

**H. Research Analyst II:** Individuals should have at least 5 years experience in acquisition and management support including earned value management; technical performance measurements; acquisition strategy development; guidance and documentation; requirements estimations and analysis; and funds management. Individuals should have at least 5 years experience providing training and implementation support for program management disciplines, including earned value management, program management baseline development, Acquisition Program Baseline (APB), Acquisition Strategy, Cost Analysis Requirements Description (CARD), RFP development, Acquisition Plan, Selected Acquisition Strategy (SAR), Defense Acquisition Strategy Executive Summary (DAES), and Risk Assessments and Management. Experience providing Integrated Baseline Reviews (IBR) and Production Readiness Reviews (PRR) to help define goals and objectives, identification of program metrics, drafting plans for conducting the review and development of the final report is highly desirable. In-depth experience in detailed planning including bottoms up requirements generation and budgeting to define program plans, PPBS/POM preparation, execution planning and management, and budget justification is also highly desirable. Individuals must have a BS or BA degree. Aa Associate degree plus an additional 3 years of relevant experience may be substituted for the bachelor's degree.

**I. Research Test Engineer:** Individuals should have at least 5 years experience providing analytic and technical support to research, development, test, and evaluation for advanced development programs. Individuals must have substantial experience in planning, coordinating, and directing test, measurement and evaluation programs. Experience directing operational testing is highly desirable. Individuals must have experience writing test plans an collecting and reducing the final data report on test results. Individuals must have experience with aircraft such as AH-1W, MV-22, UH-1, and F/A-18 E/F. Experience working with simulators is highly desirable.

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**J. Lead Hardware Design Engineer:** Individuals should have at least 10 years experience in providing engineering and technical support to advanced technology research, development, test and evaluation programs for real time avionics systems. Individuals must have at least 10 years experience leading or managing design, development, and analysis of embedded hardware and software systems including radar and EO/IR threat warning, simulator, and reconnaissance systems. Individuals must also have substantial experience in the development of embedded microprocessor systems including 8,16, and 32 bit design and DSP design, in digital design including VHDL, FPGA/ASIC/VLSI, VME/ISA/USB/PCI, Ethernet and graphics, and in developing analog systems including low noise/low power design, analog filter design, and A/D and D/A conversion. Individuals must also have experience in software and algorithm design and analysis with current experience in C/C++, assembly language, real-time OS or "OS-less", and Ethernet stack. Individuals must also have experience in Windows application development using Borland C++ builder, Borland Delphi, and Microsoft Visual C++ and experience in schematic capture and printed circuit board design using Protel, Orcad or View logic software. Individuals must have a MS in Engineering or Science. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**K. Software Engineer:** Individuals should have at least 5 years experience providing engineering and technical support to advanced technology research, development, test and evaluation programs for real time avionics systems. Individuals must have substantial experience in software development, checkout, integration and test for EO/IR systems and devices. Individuals must have experience in firmware development, checkout, test and integration for the video subsystem of the Shared Reconnaissance Pod (SHARP) as well as experience leading the programming on a program such as the Marine Corps Dragon Warrior Unmanned Aerial Vehicle (UAV) ground control station. Individuals must also have experience in software development using C, C++ in multiple processor hardware platforms with WinNT and Win2000 operating system environments. Individuals must have a MS in Engineering or Science. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**L. Software Scientist:** Individuals should have at least 10 years experience in providing engineering and technical support to advanced technology research, development, test and evaluation programs for real time avionics systems. Individuals must have substantial experience in advanced military aircraft systems design including reconnaissance, airborne and ground radar, weapons, flight computer and hardware systems development, and operational and tactical testing. Individuals must also have experience in with Windows 98/NT/2000 (Win98 beta tester), MS Visual C++ (Win32 applications development), MS Office MS Project, AutoCAD, MathCAD, Matlab (including programming), Corel DRAW, Corel Paint, Filmmaker Pro (including database development), Networking (hardware and software). Individuals must have experience in computer networking technology and software systems design dependent on advanced mathematical and physical science theories and formulas as well as experience in

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configuration management, data reduction and analysis and cockpit flight-testing. Individuals must have a MS in Engineering or Science. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

**M. Senior Software Engineer:** Individuals should have at least 10 years experience in providing engineering and technical support to advanced technology research, development, test and evaluation programs for real time avionics systems. Individuals must have substantial experience developing real time software for aerospace applications, experience as a programmer on all phases of project development for real-time telemetry data capture storage and distribution systems, and experience with embedded and systems software development for aerospace applications using C, C++ in vxWorks operating system environment. Individuals must also have experience as a team leader responsible for the design implementation and documentation of software for transmission of data over an X.25 network and a separate TCP/IP network using assembly and FORTRAN languages. Individuals must have a MS in Engineering or Science. A BS in science or engineering plus an additional 3 years of EO/IR related experience may be substituted for the MS.

# 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 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 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 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.

<b>A. CONTRACT LINE ITEM NO.</b> 0002		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____			
<b>D. SYSTEM/ITEM</b>			<b>E. CONTRACT/PR NO.</b> 56-9375-05		<b>F. CONTRACTOR</b>		
<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> Technical Report			<b>3. SUBTITLE</b> Task/Sub-task			
<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A			<b>5. CONTRACT REFERENCE</b> SOW Task 3.1		<b>6. REQUIRING OFFICE</b> NRL Code 5660		
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b> N/A	<b>10. FREQUENCY</b> AS REQ		<b>12. DATE OF FIRST SUBMISSION</b>			
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b>			
<b>16. REMARKS</b>  The contractor shall provide a comprehensive report that documents the image screening and collection algorithms, the embedded software for operation and control, and the software developed for subsystem integration.				<b>14. DISTRIBUTION</b>			
				<b>a. ADDRESSEE</b>		<b>b. COPIES</b>	
				NRL Code 5660		2	
						<b>15. TOTAL</b> → 2	
<b>1. DATA ITEM NO.</b> A002		<b>2. TITLE OF DATA ITEM</b> Computer Source Code		<b>3. SUBTITLE</b> Task/Sub-task			
<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A			<b>5. CONTRACT REFERENCE</b> SOW Task 3.1		<b>6. REQUIRING OFFICE</b> NRL Code 5660		
<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b> N/A	<b>10. FREQUENCY</b> AS REQ		<b>12. DATE OF FIRST SUBMISSION</b>			
<b>8. APP CODE</b> N/A		<b>11. AS OF DATE</b>		<b>13. DATE OF SUBSEQUENT SUBMISSION</b>			
<b>16. REMARKS</b>  The contractor shall provide all computer source code and executable code developed in electronic format.				<b>14. DISTRIBUTION</b>			
				<b>a. ADDRESSEE</b>		<b>b. COPIES</b>	
				NRL Code 5660		2	
						<b>15. TOTAL</b> → 2	
				<b>G. PREPARED BY</b> NRL Code 5660			<b>H. DATE</b>

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

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

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(2 Data Items)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 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 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.

<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM/ITEM</b>	<b>E. CONTRACT/PR NO.</b> 56-9375-05	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A003	<b>2. TITLE OF DATA ITEM</b> Technical Reports	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.1	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final

<b>16. REMARKS</b> The contractor shall provide documentation of all software developed for interfaces between the subsystems.	<b>15. TOTAL</b> → →
	2

<b>1. DATA ITEM NO.</b> A004	<b>2. TITLE OF DATA ITEM</b> Technical Reports	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.1	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final

<b>16. REMARKS</b> The contractor shall provide reports on the results of any modeling, simulation, laboratory tests, subsystem integration, system tests, data collection, and analyses.	<b>15. TOTAL</b> → →
	2

<b>G. PREPARED BY</b> NRL Code 5660	<b>H. DATE</b>	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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

# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved  
OMB No. 0704-0188

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<b>A. CONTRACT LINE ITEM NO.</b> 0002	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM/ITEM</b>	<b>E. CONTRACT/PR NO.</b> 56-9375-05	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A005	<b>2. TITLE OF DATA ITEM</b> Technical Report	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.2	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	<b>9. DIST STATEMENT REQUIRED</b> N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					<b>Draft</b>	<b>Final</b>
						<b>Reg</b>
						<b>Repro</b>

<b>16. REMARKS</b>  The contractor shall provide shall provide a comprehensive report that documents the research, analyses, evaluations, and measurements performed under this task. The contractor shall identify all threat documents reviewed, all facilities and capabilities reviewed, all new avionics systems assessed, all new technologies assessed, and all requirements reviewed.	<b>14. DISTRIBUTION</b> NRL Code 5660
<b>15. TOTAL</b> → →	

<b>1. DATA ITEM NO.</b> A006	<b>2. TITLE OF DATA ITEM</b> Technical Report	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.3	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	<b>9. DIST STATEMENT REQUIRED</b> N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					<b>Draft</b>	<b>Final</b>
						<b>Reg</b>
						<b>Repro</b>

<b>16. REMARKS</b>  The contractor shall provide a comprehensive report that documents the analyses, evaluations, test planning, and measurements performed under this task. The Contractor shall identify all technical alternatives assessed and all development programs evaluated, threat documents reviewed, all facilities and capabilities reviewed. The Contractor shall provide a report on the risk assessment performed as well as a report on the the plans and recommendations for a modeling and simulation capability.	<b>14. DISTRIBUTION</b> NRL Code 5660
<b>15. TOTAL</b> → →	

<b>G. PREPARED BY</b> NRL Code 5660	<b>H. DATE</b>	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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

# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

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OMB No. 0704-0188

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<b>A. CONTRACT LINE ITEM NO.</b> 0002	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM/ITEM</b>	<b>E. CONTRACT/PR NO.</b> 56-9375-05	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A007	<b>2. TITLE OF DATA ITEM</b> Technical Report	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.4	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final
					Reg	Repro

<b>16. REMARKS</b>  The contractor shall provide a comprehensive report that documents the design, analyses, operational concepts, testing, and measurements of unmanned aerial vehicles (UAV) performed under this task. The Contractor shall identify all UAV documents reviewed and provide summary drawings and specifications that describe the constraints and conditions on the payloads. All software developed shall be delivered, including source code, executable code, and any documentation developed for the code.	<b>15. TOTAL</b> → →
	2

<b>1. DATA ITEM NO.</b> A008	<b>2. TITLE OF DATA ITEM</b> Technical Report	<b>3. SUBTITLE</b> Task/Sub-task
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<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A	<b>5. CONTRACT REFERENCE</b> SOW Task 3.5	<b>6. REQUIRING OFFICE</b> NRL Code 5660
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<b>7. DD 250 REQ</b> N/A	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N/A	N/A	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	<b>b. COPIES</b>	
					Draft	Final
					Reg	Repro

<b>16. REMARKS</b>  The contractor shall provide a comprehensive report that documents the analyses and designs of the installations and modifications required for testing of the various sensor pods on Navy aircraft. Analyses and drawings required for flight certifications shall also be delivered.	<b>15. TOTAL</b> → →
	2

<b>G. PREPARED BY</b> NRL Code 5660	<b>H. DATE</b>	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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







<b>CONTRACT SECURITY CLASSIFICATION SPECIFICATION</b> <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				<b>1. CLEARANCE AND SAFEGUARDING</b> SER 002-05 a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;"><b>SECRET</b></p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;"><b>SECRET</b></p>	
<b>2. THIS SPECIFICATION IS FOR:</b> <i>(X and complete as applicable)</i>			<b>3. THIS SPECIFICATION IS:</b> <i>(X and complete as applicable)</i>		
a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/>	a. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD) 2005/03/17
b. SUBCONTRACT NUMBER			b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO.	DATE (YYYYMMDD)
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER 56-9375-05	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"/> . 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"/> . 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  FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  N/A		
<b>7. SUBCONTRACTOR</b>					
a. NAME, ADDRESS, AND ZIP CODE  N/A		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  N/A		
<b>8. ACTUAL PERFORMANCE</b>					
a. LOCATION  N/A		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>  N/A		
<b>9. GENERAL IDENTIFICATION OF THIS PROCUREMENT</b>  PROVIDE RESEARCH, ENGINEERING AND MANAGEMENT SUPPORT SERVICES					
<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. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION			e. PERFORM SERVICES ONLY	<input checked="" type="checkbox"/>	
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		<input checked="" type="checkbox"/>
(2) Non-SCI		<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>
g. NATO INFORMATION		<input checked="" type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>	l. OTHER <i>(Specify)</i>		
k. OTHER <i>(Specify)</i>					

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 5663

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 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.)

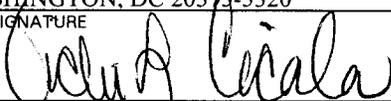
**16. CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL VICKI CICALA	b. TITLE CONTRACTING OFFICER, SECURITY	c. TELEPHONE (Include Area Code) (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, 5630, 5602                         |