

SOLICITATION, OFFER AND AWARD		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>	10 CALENDAR DAYS (%)	20 CALENDAR DAYS (%)	30 CALENDAR DAYS (%)	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		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE. <input type="checkbox"/>	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)

SECTION B**SUPPLIES OR SERVICES AND PRICES/COSTS****B-1 SUPPLIES/SERVICES AND COSTS**

CONTRACT LINE ITEM NO.	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The contractor shall provide Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems as specified in Section 3.1 of the SOW identified in Section C. PSC: AJ13	\$	\$	\$
0002	The contractor shall provide VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems as specified in Section 3.2 of the SOW identified in Section C. PSC: AJ13	\$	\$	\$
0003	The contractor shall Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components as specified in Section 3.3 of the SOW identified in Section C. PSC: AJ13	\$	\$	\$
0004	The contractor shall provide Navy/DoD Acquisition Program Support as specified in Section 3.4 of the SOW identified in Section C. PSC: AJ13	\$	\$	\$
0005	*Material (Cost Only) PSC: 6640	\$		\$

CONTRACT LINE ITEM NO.	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0006	Travel (Cost Only) PSC: AJ13	\$		\$
0007	Data in accordance with Exhibit A (DD Form 1423)	**NSP	NSP	NSP
0008	Hardware Deliverables including prototypes. The Contractor shall deliver all hardware as required by each task and section F-4. The price of this CLIN is included in CLIN 0001-0004	NSP	NSP	NSP
	Total Cost Plus Fixed Fee (CPFF)	\$	\$	\$

*Material purchases in excess of \$25,000 must be approved by the COR prior to their purchase.

** Not Separately Priced

NOTICE TO OFFERORS: Insert the estimated cost and fixed fee for the base year and any optional year(s).

B-2 OPTION TO EXTEND THE TERM (APPLICABLE TO A CPFF TERM-TYPE CONTRACTS)

The Government may unilaterally exercise the below options by adding the cost of the exercised amount to the applicable CLIN in B.1 above.

OPTION 1 – Year 2

CLIN	Option Exercise Date	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001		\$	\$	\$
0002		\$	\$	\$
0003		\$	\$	\$
0004		\$	\$	\$
0005		\$	No Fee	\$
0006		\$	No Fee	\$

OPTION 2 – Year 3

CLIN	Option Exercise Date	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001		\$	\$	\$
0002		\$	\$	\$
0003		\$	\$	\$
0004		\$	\$	\$
0005		\$	No Fee	\$
0006		\$	No Fee	\$

OPTION 3 – Year 4

CLIN	Option Exercise Date	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001		\$	\$	\$
0002		\$	\$	\$
0003		\$	\$	\$
0004		\$	\$	\$
0005		\$	No Fee	\$
0006		\$	No Fee	\$

OPTION 4 – Year 5

CLIN	Option Exercise Date	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001		\$	\$	\$
0002		\$	\$	\$
0003		\$	\$	\$
0004		\$	\$	\$
0005		\$	No Fee	\$
0006		\$	No Fee	\$

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, Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

C-2 ENTERPRISE-WIDE CONTRACTOR MANPOWER REPORTING APPLICATION (ECMRA)

Pursuant to NMCARS 5237.102 (90), the contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Naval Research Laboratory via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address <https://doncmra.nmci.navy.mil> .

C-3 IDENTIFICATION OF CONTRACTOR EMPLOYEES

Pursuant to DFARS 211.106 contractor employees shall identify themselves as contractor personnel by introducing themselves or being introduced as contractor personnel and displaying distinguishing badges or other visible identification for meetings with Government personnel. In addition, contractor personnel shall appropriately identify themselves as contractor employees in telephone conversations and in formal and informal written correspondence.

C-4 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 8 December 2008 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/15onsite.htm>

SECTION D

PACKAGING AND MARKING

D-1 PACKAGING AND MARKING

All unclassified data shall be preserved, packaged, packed and marked and must conform to normal commercial packing standards to assure safe delivery at destination. Classified reports, data, and documentation shall be prepared for shipment in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M dated February 28, 2006 and the DD 254 - Contract Security Classification Specification.

SECTION E

INSPECTION AND ACCEPTANCE

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE:

<u>FAR CLAUSE</u>	<u>TITLE</u>	
52.246-9	Inspection of Research and Development (Short Form)	(APR 1984)

<u>DFARS CLAUSE</u>	<u>TITLE</u>	
252.246-7000	Material Inspection and Receiving Report	(MAR 2008)

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.

Constructive acceptance, in accordance with FAR 32.904, shall be deemed to have occurred on the 7th day after the final delivery.

SECTION F

DELIVERIES OR PERFORMANCE

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

<u>FAR CLAUSE</u>	<u>TITLE</u>	
52.242-15	Stop - Work Order	(AUG 1989)
	with Alternate I	(APR 1984)
52.247-34	F.O.B. Destination	(NOV 1991)

F-2 PERIOD OF PERFORMANCE

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

F-3 PLACE OF PERFORMANCE

The principal place of performance of this contract shall be at Naval Research Laboratory, Washington D.C.

F-4 PLACE OF DELIVERY

Receiving Officer

Naval Research Laboratory

Contract Number: *

ATTN: *

CODE: *

LOCATION: *

Bldg. 49

4555 Overlook Avenue, SW

Washington DC 20375-5320

*(To be filled in at time of award.)

SECTION G

CONTRACT ADMINISTRATION DATA

G-1 CONTRACT ADMINISTRATION

a. In order to expedite administration of this contract, the following delineation of duties is provided including the names and contact information for each individual or office specified. Contact the individual/position designated as having responsibility for any questions, clarifications or information regarding the functions assigned herein.

The Contract Administration Office (CAO) designated in Block 20A on the Standard Form 26 is responsible for all matters specified in FAR 42.302(a) and DFARS 242.302(a), except in those areas otherwise designated herein.

The ACO shall direct procuring agency inquiries as follows:

Contract Specialist – Eric Sogard, Code 3235, 228-688-5980, eric.sogard@nrlssc.navy.mil

Security Matters – Contracting Officer for Security, Code 1226, (202) 767-2240, DSN 297-2240, email security-group@nrl.navy.mil.

Safety Matters – Head Safety Branch, Code 3540, (202) 767-2232, email safety@nrl.navy.mil.

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

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

b. Contract administration functions withheld, additional contract administration functions assigned, or special instructions are set forth below: None

c. Inquiries regarding payment should be referred to DFAS at <http://www.dod.mil/dfas/contractorpay/myinvoice.html>

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR)

a. * is hereby designated as the Contracting Officer's Representative (COR). Unless terminated sooner, this appointment is effective for the period of performance of this contract including any options, if exercised. COR authority may not be re-delegated. No change in COR assignment shall be made without written notice by the Contracting Officer, who will modify the contract to reflect the change of COR assignment. The Contracting Officer may designate assistant or alternate COR(s) to act for the COR by naming such assistant/alternate(s) in writing and transmitting a copy of such designation to the contractor via contract modification.

b. The responsibilities and limitations of the COR are as follows:

1. The COR is responsible for:

- A. Providing technical direction and guidance as necessary with respect to the performance of work under this contract. Technical direction and guidance may be used to provide technical advice/recommendations/clarifications on the statement of work/specifications. It MAY NOT be used to tell the contractor how to perform the work.
 - B. Submitting interim and final Contractor Performance Assessment Reports (CPARS) at www.cpars.csd.disa.mil/cparsmain.htm.
 - C. Quality assurance of services performed or deliveries made
 - D. Inspection and acceptance of services or deliverables
 - E. Ensuring that Government Furnished Property, to include any contractor use of on-site equipment and/or IT resources is adequately monitored and accounted for.
 - F. Security requirements on Government installation, such as the request and retrieval of personnel security badges and vehicle passes.
 - G. Monitoring contractor's performance and promptly report problems and recommendations for corrective action to the PCO
 - H. Annually, furnish a written report on performance of the contractor to the PCO. And, if deemed necessary, attending a follow-up meeting to discuss.
 - I. Attend post award conference, if conducted.
 - J. Ensuring a copy of all Government technical correspondence, to include Technical Direction Memorandums/Guidance, is forwarded to the PCO for placement in the contract file.
 - K. Monitoring of funds expended
 - L. Ensuring that the Contractor does not exceed the defined statement of work set forth in the contract.
2. Limitations: The COR is not authorized to take any action, either directly or indirectly, that could result in a change in the cost/price, quantity, quality, place of performance, delivery schedule, or any other terms or conditions of the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or the statement of work/specifications, a modification must be issued in writing and signed by the Contracting Officer in order to effect such changes. No such changes shall be made without the express written prior authorization/direction of the Contracting Officer.

*To be provided 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, at a minimum, 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,
 - (5) The type of work to be performed, i.e., (a) SETA support or (b) R&D work,
 - (6) A reference to the appropriate CLIN or SubCLIN,
 - (7) The anticipated level of effort, materials and travel expected as a result of the TDM,
 - (8) The JON, Program Element, and associated dollar amount, and
 - (9) The signature of the COR
- (f) CORs shall provide a copy of each TDM with the necessary increment of funds to the Contracting Officer for retention in the official contract file. 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 clause, 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) (Paragraph (j) of FAR 52.244-2 is filled in as follows. The following subcontractor/consultants have been identified in the Contractor’s proposal as necessary for performance of this contract and were evaluated during negotiations:

SUBCONTRACTOR/CONSULTANT NAME	ESTIMATED TOTAL COST
To be completed at time of award	\$
*	\$ *

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 clause will be included and completed at time of award and updated upon adding an increment, 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 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

In accordance with PGI 204.7108, clauses 252.204-0001 through 0011 are not applicable to this contract; therefore, use PGI 204.7108(d)(12) Other and pay as follows: If there is more than one ACRN within a contract line item, the payment office will make payment using the ACRN(s) cited on the contractor's invoice as it reflects the agency that is sponsoring the work and one sponsor’s funding cannot be used to fund another sponsor’s project or program. The non-standard clause (d)(12) Other provides a significantly better reflection of how funds will be expended in support of contract performance.

G-8 252.232-7006 – WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (MAY 2013)

See DoD Class Deviation 2013-O0005, Wide Area WorkFlow Payment Instructions, issued on January 22, 2013. This deviation authorizes contractors performing work under contracts administered by ONR Regional Offices to use PayWeb, while it is being phased out, as an alternate method of sending submissions to Wide Area Workflow in addition to the more commonly used methods listed in DFARS 252.232-7006. This deviation remains in effect until September 30, 2014.

(a) *Definitions.* As used in this clause—

“Department of Defense Activity Address Code (DoDAAC)” is a six position code that uniquely identifies a unit, activity, or organization.

“Document type” means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

“Local processing office (LPO)” is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) *Electronic invoicing.* The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS [252.232-7003](#), Electronic Submission of Payment Requests and Receiving Reports.

(c) *WAWF access.* To access WAWF, the Contractor shall—

(1) Have a designated electronic business point of contact in the System for Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) *WAWF training.* The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the “Web Based Training” link on the WAWF home page at <https://wawf.eb.mil/>

(e) *WAWF methods of document submission.* Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) *WAWF payment instructions.* The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) *Document type.* The Contractor shall use the following document type(s).

Cost Voucher

2) *Inspection/acceptance location.* The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

Not Applicable

(3) *Document routing.* The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

ROUTING DATA TABLE*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	*
Issue By DoDAAC	N00173
Admin DoDAAC	*
Inspect By DoDAAC	N00173
Ship To Code	N00173 Extension *
Ship From Code	*
Mark For Code	*
Service Approver (DoDAAC)	*
Service Acceptor (DoDAAC)	N00173 Extension *
Accept at Other DoDAAC	*
DCAA Auditor DoDAAC	*
Other DoDAAC(s)	*

(*Contracting Officer: Insert applicable DoDAAC information or “See schedule” if multiple ship to/acceptance locations apply, or “Not applicable.”)

(4) *Payment request and supporting documentation.* The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) *WAWF email notifications.* The Contractor shall enter the e-mail address identified below in the “Send Additional Email Notifications” field of WAWF once a document is submitted in the system.

COR [NAME@nrl.navy.mil](mailto:COR_NAME@nrl.navy.mil)

AO [NAME@nrl.navy.mil](mailto:AO_NAME@nrl.navy.mil)

(Contracting Officer: Insert applicable email addresses or “Not applicable.”)

(g) WAWF point of contact.

(1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity’s WAWF point of contact.

Donna Washington: donna.washington@nrl.navy.mil or 202-767-0547

Javonka Caton-Cambell: Javonka.Caton@nrl.navy.mil or 202-404-3557

(Contracting Officer: Insert applicable information or “Not applicable.”)

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

(End of clause)

SECTION H

SPECIAL CONTRACT REQUIREMENTS

H-1 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: *

Labor Category	First/M/Last Name
Program Manager	*
Senior Research Engineer	*
Senior Research Scientist	
Senior Research Test Engineer	

(*To be completed at time of award)

H-2 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

36,660 total hours of direct labor for the base year;

53,840 total hours of direct labor for option period 1, if exercised,

49,900 total hours of direct labor for option period 2, if exercised,

48,860 total hours of direct labor for option period 3, if exercised, and

49,140 total hours of direct labor for option period 4, if exercised.

The total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at a monthly average rate of:

3,055 hours per month for the base period,

4,867 hours per month for option period 1,

4,158 hours per month for option period 2,

4,072 hours per month for option period 3, and

4,095 hours per month for option period 4.

It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

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

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

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

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

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

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

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

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

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

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

LABOR CATEGORY	Task 3.1	Task 3.2	Task 3.3	Task 3.4	5-Year Total
A. Program Manager	2860	2860	2600	2860	11180
B. Senior Research Engineer	5200	8320	7800	3640	24960
C. Senior Research Scientist	3900	6500	6280	2080	18760
D. Senior Research Test Engineer	5720	9620	9100	2280	26720
E. Research Test Engineer	3640	7020	7020	0	17680
F. Research Engineer/Scientist	3380	3900	4680	2600	14560
G. Junior Research Engineer/Scientist	260	2600	2860	0	5720
H. Senior Research Analyst	3120	4680	4680	4160	16640
I. Research Analyst	3120	4420	5200	2860	15600
J. Junior Research Analyst	520	2600	2600	0	5720
K. Lead Hardware Design Engineer	2080	4940	4940	520	12480
L. Senior Software Engineer/Scientist	5720	9880	9100	4680	29380
M. Software Engineer/Scientist	1300	2340	2600	2080	8320
N. Senior Systems Analyst	3640	6240	6500	2340	18720
O. Senior Cyber Warfare/Information Assurance Specialist	780	1040	1820	2080	5720
P. Cyber Warfare/ Information Assurance Specialist	1040	1820	1820	1560	6240
TOTAL HOURS	46,280	78,780	79,600	33,740	238,400

H-3 ONR 5252.235-9714 - REPORT PREPARATION (JUL 2005)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-2005, Scientific and Technical Reports: Elements, Organization, and Design.

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

H-4 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-5 GOVERNMENT- FURNISHED PROPERTY

The following Government property will be furnished to the contractor on a rent-free basis for use in performing the contract:

(To be completed at time of award, as required)

H-6 REPRESENTATIONS AND CERTIFICATIONS

The contractor's System for Award Management (SAM) annual Representations and Certifications valid from Insert Date to Insert Date are incorporated herein by reference.

The Section K contract specific Representations and Certifications submitted by the contractor for this award are hereby incorporated by reference.

H-7 PROTECTION OF HUMAN SUBJECTS

Any collection or analysis of data from human subjects must not commence until the contractor provides the following information per SECNAV 3900.39D 8.d. (1):

An appropriate DoD Navy Assurance or a Federal wide Assurance (FWA) with a DoD Navy addendum to the FWA, or an application for a DoD Navy Assurance.

Documentation of the Institutional Review Board's (IRBs) initial and continuing review and approval.

IRB-approved informed consent form, except when not required consistent with law and regulation.

IRB-approved research protocol.

Documentation that research ethics and human subject protections training has been completed by the contractor's principle investigators.

The contractor has responsibility for certain reporting requirements per SECNAV 3900.39D 8.d. (2).

H-8 ORGANIZATIONAL CONFLICTS OF INTEREST

(a) Definitions.

The term "contractor" includes the Contractor and its employees, affiliates, marketing consultants (if any), consultants, and subcontractors at all tiers.

"Organizational Conflict of Interest" ("OCI") means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. FAR 2.101. An OCI may result when (1) activities or relationships create an actual or potential conflict of interest related to the performance of the Statement of Work (SOW) of this Contract; or, (2) when the nature of the SOW on this Contract creates an actual or potential conflict of interest with respect to the Contractor in relation to a future acquisition.

"Marketing consultant," means any independent contractor who furnishes advice, information, direction, or assistance to an offeror or any other contractor in support of the

preparation or submission of an offer for a Government contract by that offeror. An independent contractor is not a marketing consultant when rendering— (1) Services excluded in FAR Subpart 37.2; (2) Routine engineering and technical services (such as installation, operation, or maintenance of systems, equipment, software, components, or facilities); (3) Routine legal, actuarial, auditing, and accounting services; and (4) Training services.

(b) In accordance with the guidance in FAR Subpart 9.5, the Contracting Officer has determined that potentially significant organizational conflicts of interest (OCIs) could result if the Contractor is allowed to participate (at any level) in future Federal Government acquisitions that include requirements that may be established or affected by the performance of the Statement of Work (SOW) by the Contractor under this Contract.

(c) It is understood and agreed that the Contractor may be ineligible (unless expressly exempted as provided in FAR Part 9.5) to act as a prime contractor, subcontractor, or consultant or subcontractor to any prime contractor or subcontractor at any tier, for any future requirements (for services, systems, or components of systems) procured by any Federal Government activity where the Contractor, in performance of the SOW under this Contract, has provided or is providing support (as described in FAR 9.505-1 through 9.505-4) that establishes or affects future requirements or may affect the future competition.

(d) The contracting officer responsible for securing future requirements, in his/her sole discretion, may make a determination to exempt the Contractor from ineligibility as described in subparagraph (c) above provided the Contractor submits an acceptable mitigation plan.

(1) Items for consideration in a mitigation plan include the following: identification of the organizational conflict(s) of interest; a reporting and tracking system; an organizational conflict of interest compliance/enforcement plan, to include employee training and sanctions, in the event of unauthorized disclosure of sensitive information; a plan for organizational segregation (e.g., separate reporting chains); data security measures; and, non-disclosure agreements.

(2) The Government's determination regarding the adequacy of the mitigation plan or the possibility of mitigation is a unilateral decision made solely at the discretion of the Government and is not subject to the Disputes clause of the contract. The Government may terminate the contract for default if the Contractor fails to implement and follow the procedures contained in any approved mitigation plan.

(3) Nothing contained herein shall preclude the contracting officer in future Federal Government acquisitions from making his/her own determination as to whether an OCI exists and whether any such OCI has been successfully mitigated.

(e) The Contractor shall apply this clause to any subcontractors or consultants who: have access to proprietary information received or generated in the performance of this Contract; and/or, who participate in the development of data, or participate in any other activity related to this Contract which is subject to the terms of this clause at the prime contractor level.

(f) The Contractor agrees that it and its subcontractors at all levels shall use reasonable diligence in protecting proprietary data/information that is received or generated in performance of this Contract in accordance with this clause and any other clause of this Contract pertaining to the nondisclosure of information. The Contractor further agrees that neither it nor its subcontractors will willfully disclose proprietary data/information that is received or generated in the performance of this Contract without the prior permission of the Contracting Officer, and that

proprietary information shall not be duplicated, used or disclosed, in whole or part, for any purpose other than to accomplish the work required by the Contract.

(g) The Contractor and its Subcontractors at all levels shall inform their employees that they are required to comply with the applicable requirements and restrictions contained in: restrictive markings applicable to data/information that they receive or generate in the performance of this Contract; FAR Subpart 9.5 pertaining to actual or potential OCIs; FAR 3.104 pertaining to requirements and restrictions under the Procurement Integrity Act; and, Defense FAR Supplement (DFARS) 252.204-7000 pertaining to “Disclosure of Information.”

(h) The Contractor agrees to enter into written agreements with all companies whose proprietary data it shall have access to and to protect such data from unauthorized use or disclosure as long as it remains proprietary. The Contractor shall furnish to the Contracting Officer copies of these written agreements. The Contractor agrees to protect the proprietary data and rights of other organizations disclosed to the Contractor during performance of this Contract with the same caution that a reasonably prudent Contractor would use to safeguard its own highly valuable property. The Contractor agrees to refrain from using proprietary information for any purpose other than that for which it was furnished.

(i) The Contractor shall not distribute reports, data or information of any nature received or arising from its performance under this Contract, except as provided by this Contract or as may be directed by the Contracting Officer.

(j) The Contractor agrees that if in the performance of this Contract it discovers a potential OCI, a prompt and full disclosure shall be made in writing to the Contracting Officer. This disclosure shall include a description of the actions the Contractor has taken, or proposes to take, to avoid or mitigate such conflicts.

H-9 SPECIAL CONTRACT REQUIREMENT REGARDING NON-DISCLOSURE OF INFORMATION

Data includes all data, information and software, regardless of the medium (e.g. electronic or paper) and/or format in which the data exists, and includes data which is derived from, based on, incorporates, includes or refers to such data. In the course of performing this Contract, the Contractor may be or may have been given access to: Source Selection Information [as defined in Federal Acquisition Regulation (FAR) 3.104]; data that has been assigned (or data that is generated by the Contractor that should be assigned) a contractually required or other Government distribution control (such as a Distribution Statement prescribed in DoD Directive 5230.24); and/or data that has been given a restrictive legend by the source of the data such as “business sensitive,” “proprietary,” “confidential,” or word(s) with similar meaning that impose limits on the use and distribution of the data (see for example FAR 52.215-1(e)). All such data with limitations on use and distribution are collectively referred to herein as “protected data.”

This Special Contract Requirement supplements and implements Defense FAR Supplement (DFARS) 252.204-7000, “DISCLOSURE OF INFORMATION.” As a condition to receiving access to protected data, the Contractor shall: (1) prior to having access to protected data, obtain the agreement of the source of the protected data to permit access by the Contractor to such protected data; (2) use the protected data solely for the purpose of performing duties under this Contract unless otherwise permitted by the source of the protected data; (3) not disclose, release, reproduce or otherwise provide or make available the protected data, or any portion thereof, to

any employee of the Contractor unless and until such employee has been informed of the restrictions on use and distribution of the protected data and agreed in writing to conform with the applicable restrictions; (4) not disclose, release, reproduce or otherwise provide or make available the protected data, or any portion thereof, to any non-Government person or entity (including, but not limited to, affiliates, subcontractors, successors and assignees of the Contractor), unless the Contracting Officer and the source of the protected data have given prior written approval (which shall be conditioned upon the person receiving the protected data having been informed of the restrictions on use and distribution of the protected data and having agreed in writing to conform with the applicable restrictions; (5) establish and execute safeguards to prevent the unauthorized use or distribution of protected data.

Any unauthorized use, disclosure or release of protected data may result in substantial criminal, civil and/or administrative penalties to the Contractor or to the individual who violates a restriction on use or distribution of protected data. Any agreement with another company regarding access to that company's protected data shall not create any limitation on the Government or its employees with regard to such data. A copy of each executed company and individual non-disclosure agreement relating to this Contract shall be provided to the Contracting Officer's Representative (COR).

Appropriate restrictive legends will be included by the Contractor on any copies and reproductions made of all or any part of the protected data and any data that is derived from, based upon, incorporates, includes or refers to the protected data. When the Contractor's need for such protected data ends, the protected data shall be returned promptly to the source of the protected data with notice to the COR. However, the obligation not to use, disclose, release, reproduce or otherwise provide or make available such protected data, or any portion thereof, shall continue, even after completion of the Contract, for so long as required by the terms of any agreement pertaining to the protected data between the Contractor and the source of the protected data, or (in the case of Government information) for so long as required by applicable law and regulation. Any actual or suspected unauthorized use, disclosure, release, or reproduction of protected data or violation of this agreement, of which the company or any employee is or may become aware, shall be reported promptly (within one business day after discovery and confirmation) to the Contracting Officer's Representative (COR).

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://farsite.hill.af.mil/farsite.html>

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

a. FEDERAL ACQUISITION REGULATION CLAUSES

<u>FAR CLAUSE</u>	<u>TITLE</u>	
52.202-1	Definitions	(JAN 2012)
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	(SEP 2006)
52.203-7	Anti-Kickback Procedures	(OCT 2010)
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	(OCT 2010)
52.203-13	Contractor Code Of Business Ethics And Conduct	(APR 2010)
52.203-17	Contractor Employee Whistleblower Rights and Requirement to Inform Employees of Whistleblower Rights	(SEP 2013)
52.204-2	Security Requirements	(AUG 1996)
52.204-4	Printed Or Copied Double-Sided On Recycled Paper	(MAY 2011)
52.204-7	System for Award Management	(JUL 2013)
52.204-9	Personal Identity Verification Of Contractor Personnel	(JAN 2011)
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards	(JUL 2013)

52.204-13	System for Award Management Maintenance	(JUL 2013)
52.209-6	Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment	(AUG 2013)
52.209-9	Updates of Information Regarding Responsibility Matters	(JUL 2013)
52.209-10	Prohibition on Contracting with Inverted Domestic Corporations	(MAY 2012)
52.211-15	Defense Priority And Allocation Requirements	(APR 2008)
52.215-2	Audit And Records-Negotiation	(OCT 2010)
52.215-8	Order Of Precedence - Uniform Contract Format	(OCT 1997)
52.215-14	Integrity Of Unit Prices	(OCT 2010)
52.215-15	Pension Adjustments And Asset Reversions	(OCT 2010)
52.215-17	Waiver Of Facilities Capital Cost Of Money (<i>will be included if the successful offeror does not propose facilities capital cost of money</i>)	(OCT 1997)
52.215-18	Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions	(JUL 2005)
52.215-19	Notification Of Ownership Changes	(OCT 1997)
52.215-21	Requirements For Cost Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications	(OCT 2010)
52.215-22	Limitations On Pass-Through Charges--Identification Of Subcontract Effort	(OCT 2009)
52.215-23	Limitations on Pass-Through Charges.	(OCT 2009)
52.216-7	Allowable Cost And Payment (FILL IN: <u>30th</u>)	(JUN 2013)
52.216-8	Fixed-Fee	(JUN 2011)
52.219-6	Notice Of Total Small-Business Set-Aside	(NOV 2011)
52.219-8	Utilization Of Small Business Concerns	(JAN 2011)
52.219-14	Limitations On Subcontracting	(NOV 2011)
52.222-2	Payment For Overtime Premiums - The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed " <u>0</u> "	(JUL 1990)
52.222-3	Convict Labor	(JUN 2003)
52.222-21	Prohibition Of Segregated Facilities	(FEB 1999)

52.222-26	Equal Opportunity	(MAR 2007)
52.222-35	Equal Opportunity For Veterans	(SEP 2010)
52.222-36	Affirmative Action For Workers With Disabilities	(OCT 2010)
52.222-37	Employment Reports On Veterans	(SEP 2010)
52.222-40	Notification of Employee Rights Under the National Labor Relations Act	(DEC 2010)
52.222-50	Combating Trafficking In Persons	(FEB 2009)
52.222-54	Employment Eligibility Verification	(AUG 2013)
52.223-3	Hazardous Material Identification And Material Safety Data	(JAN 1997)
52.223-5	Pollution Prevention And Right-To-Know Information	(MAY 2011)
52.223-6	Drug-Free Workplace	(MAY 2001)
52.223-10	Waste Reduction Program	(MAY 2011)
52.223-17	Affirmative Procurement of EPA-designated Items in Service and Construction Contracts	(MAY 2008)
52.223-18	Encouraging Contractor Policies to Ban Text Messaging While Driving	(AUG 2011)
52.225-13	Restrictions On Certain Foreign Purchases	(JUN 2008)
52.227-1	Authorization And Consent with Alternate I	(DEC 2007) (DEC 2007)
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	(DEC 2007)
52.227-10	Filing Of Patent Application- Classified Subject Matter	(DEC 2007)
52.227-11	Patent Rights - Ownership by the Contractor	(DEC 2007)
52.227-14	Rights in Data – General	(DEC 2007)
52.228-7	Insurance - Liability To Third Persons	(MAR 1996)
52.232-9	Limitation On Withholding Of Payments	(APR 1984)
52.232-17	Interest	(OCT 2010)
52.232-18	Availability Of Funds	(APR 1984)
52.232-20	Limitation Of Cost (<i>Applicable when the contract or task order is fully funded</i>)	(APR 1984)
52.232-22	Limitation Of Funds (<i>Applicable when the contract or task order is not fully funded</i>)	(APR 1984)
52.232-23	Assignment Of Claims with Alternate I	(JAN 1986) (APR 1984)

52.232-25	Prompt Payment with Alternate I	(OCT 2008) (FEB 2002)
52.232-33	Payment By Electronic Funds Transfer-Central Contractor Registration	(OCT 2003)
52.232-39	Unenforceability of Unauthorized Obligations	(JUN 2013)
52.233-1	Disputes with Alternate I	(JUL 2002) (DEC 1991)
52.233-3	Protest After Award with Alternate I	(AUG 1996) (JUN 1985)
52.233-4	Applicable Law For Breach Of Contract Claim	(OCT 2004)
52.237-2	Protection Of Government Buildings, Equipment And Vegetation	(APR 1984)
52.237-3	Continuity Of Services	(JAN 1991)
52.242-1	Notice Of Intent To Disallow Costs	(APR 1984)
52.242-3	Penalties For Unallowable Costs	(MAY 2001)
52.242-4	Certification of Final Indirect Costs	(JAN 1997)
52.242-13	Bankruptcy	(JUL 1995)
52.243-2	Changes - Cost-Reimbursement with Alternate V	(AUG 1987) (APR 1984)
52.243-6	Change Order Accounting	(APR 1984)
52.243-7	Notification Of Changes (FILL IN: <u>30</u>)	(APR 1984)
52.244-2	Subcontracts	(OCT 2010)
52.244-5	Competition In Subcontracting	(DEC 1996)
52.244-6	Subcontracts For Commercial Items with Alternate I	(DEC 2010) (JUN 2010)
52.245-1	Government Property with Alternate II	(APR 2012) (APR 2012)
52.245-9	Use And Charges	(APR 2012)
52.246-23	Limitation Of Liability	(FEB 1997)
52.246-25	Limitation Of Liability – Services	(FEB 1997)
52.247-1	Commercial Bill Of Lading Notations	(FEB 2006)
52.247-63	Preference For U. S. Flag Air Carriers	(JUN 2003)
52.249-6	Termination (Cost-Reimbursement)	(MAY 2004)

52.249-14	Excusable Delays	(APR 1984)
52.251-1	Government Supply Sources	(APR 2012)
52.252-6	Authorized Deviations in Clauses (FILL IN: <u>Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2)</u>)	(APR 1984)
52.253-1	Computer Generated Forms	(JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

<u>DFARS CLAUSE</u>	<u>TITLE</u>	
252.201-7000	Contracting Officer's Representative	(DEC 1991)
252.203-7000	Requirements Relating to Compensation of Former DOD Officials	(SEP 2011)
252.203-7001	Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies	(DEC 2008)
252.203-7002	Requirement To Inform Employees Of Whistleblower Rights	(SEP 2013)
252.203-7003	Agency Office of the Inspector General	(DEC 2012)
252.203-7004	Display of Fraud Hotline Poster(s)	(DEC 2012)
252.204-7000	Disclosure Of Information	(AUG 2013)
252.204-7003	Control Of Government Personnel Work Product	(APR 1992)
252.204-7004	Alternate A Central Contractor Registration	(MAY 2013)
252.204-7005	Oral Attestation Of Security Responsibilities	(NOV 2001)
252.204-7006	Billing Instructions	(OCT 2005)
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	(DEC 2006)
252.211-7003	Item Identification And Valuation (FILL IN: <u>none in (c)(1)(ii) and (c)(1)(iii)</u>)	(JUN 2013)
252.211-7007	Reporting of Government-Furnished Property	(AUG 2012)
252.211-7008	Use of Government-Assigned Serial Numbers	(SEP 2010)
252.217-7027	Contract Definitization	(DEC 2012)
252.222-7006	Restrictions on the Use of Mandatory Arbitration Agreement	(DEC 2010)

252.223-7001	Hazard Warning Labels	(DEC 1991)
252.223-7004	Drug-Free Work Force	(SEP 1988)
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	(APR 2012)
252.225-7004	Report Of Intended Performance Outside The United States And Canada-Submission After Award	(OCT 2010)
252.225-7006	Quarterly Reporting Of Actual Contract Performance Outside The United States	(OCT 2010)
252.225-7012	Preference For Certain Domestic Commodities	(FEB 2013)
252.225-7043	Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (Fill-In: Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)	(JAN 2009)
252.225-7047	Exports by Approved Community Members in Performance of the Contract (FILL-IN: Enter CLIN or "None")	(JUN 2013)
252.225-7048	Export-Controlled Items	(JUN 2013)
252.226-7001	Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns	(SEP 2004)
252.227-7013	Rights In Technical Data -- Noncommercial Items with Alternate I	(MAY 2013) (JUN 1995)
252.227-7014	Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation Alternate I	(MAY 2013) (JUN 1995)
252.227-7015	Technical Data – Commercial Items	(JUN 2013)
252.227-7016	Rights In Bid Or Proposal Information	(JAN 2011)
252.227-7019	Validation Of Asserted Restrictions--Computer Software	(SEP 2011)
252.227-7025	Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends	(MAY 2013)
252.227-7026	Deferred Delivery Of Technical Data Or Computer Software	(APR 1988)
252.227-7027	Deferred Ordering Of Technical Data Or Computer Software	(APR 1988)
252.227-7030	Technical Data--Withholding Of Payment	(MAR 2000)

252.227-7037	Validation Of Restrictive Markings On Technical Data	(JUN 2013)
252.227-7038	Patent Rights-Ownership By The Contractor (Large Business)	(JUN 2012)
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 and Receiving Reports	(JUN 2012)
252.232-7010	Levies On Contract Payments	(DEC 2006)
252.235-7010	Acknowledgment Of Support And Disclaimer	(MAY 1995)
252.235-7011	Final Scientific Or Technical Report	(NOV 2004)
252.237-7023	Continuation of Mission Essential Functions	(OCT 2010)
252.237-7024	Notice of Continuation of Essential Contractor Services	(OCT 2010)
252.242-7005	Contractor Business Systems	(FEB 2012)
252.242-7006	Accounting System Administration	(FEB 2012)
252.243-7002	Requests For Equitable Adjustment	(DEC 2012)
252.244-7000	Subcontracts For Commercial Items	(JUN 2013)
252.244-7001	Contractor Purchasing System Administration	(JUN 2012)
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	(APR 2012)
252.245-7002	Reporting Loss of Government Property	(APR 2012)
252.245-7003	Contractor Property Management System Administration	(APR 2012)
252.245-7004	Reporting, Reutilization, and Disposal	(MAY 2013)
252.246-7001	Warranty Of Data	(DEC 1991)
252.246-7003	Notification Of Potential Safety Issues	(JUN 2013)
252.247-7023	Transportation Of Supplies By Sea	(JUN 2013)
252.247-7024	Notification Of Transportation Of Supplies By <i>Sea (will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)</i>	(MAR 2000)
252.251-7000	Ordering From Government Supply Sources	(AUG 2012)

I-2 FAR 52.217-8 - OPTION TO EXTEND SERVICES (NOV 1999) (SUBSTANTIALLY THE SAME)

The Government may require continued performance of any services within the limits and at the negotiated estimated cost plus fixed fee of the contract award. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within the existing term of the contract.

(End of Clause)

I-1 FAR 52.217-9 - OPTION TO EXTEND THE TERM OF THE CONTRACT (MARCH 2000) (SUBSTANTIALLY THE SAME)

(a) The Government may extend the term of this contract by written notice to the Contractor within the existing term of the contract.

(b) If the Government exercises an option, the extended contract shall be considered to include this option clause.

(c) 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 in Section B.

(End of Clause)

I-2 FAR 52.219-28 - POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (APR 2012)

(a) *Definitions.* As used in this clause—

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (c) of this clause.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts—

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the exercise date specified in the contract for any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/content/table-small-business-size-standards>.

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the rerepresentation required by paragraph (b) of this clause by validating or updating all its representations in the Online Representations and Certifications Application and its data in the Central Contractor Registration, as necessary, to ensure they reflect current status. The Contractor shall notify the contracting office by e-mail, or otherwise in writing, that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in ORCA, or does not have a representation in ORCA for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it is is not a small business concern under NAICS Code **Insert Number** assigned to contract number **Insert Number**.

[Contractor to sign and date and insert authorized signer's name and title].

(End of clause)

I-3 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 –

Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

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) ***Insert**, 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).

(End of clause)

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

SECTION J

LIST OF ATTACHMENTS

J-1 Attachment (1) - Statement Of Work -30, with Exhibit A - DD Form 1423, Contract Data Requirements List, 6 Pages.

J-2 Attachment (2) – Personnel Qualifications, 9 Pages.

J-3 Attachment (3) – Version Description Documents (VDD) Guide, 3 pages.

J-4 Attachment (4) – DD Form 254, Contract Security Classification Specification SER #: 018-13, dated 2013/07/31.

J-5 Attachment (5) – Cost/Price Template, 1 Page.

J-6 Attachment (6) – 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 representations and certifications at System For Award Management (SAM) via <https://www.sam.gov/> as part of the registration required by FAR 4.1102. 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 complete the additional contract specific representations and certifications below:

K-2 52.204-8 -- ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JUL 2013)

(a)

(1) The North American Industry classification System (NAICS) code for this acquisition is 541712.

(2) The small business size standard is 500 employees.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)

(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certification in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.

(vi) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(vii) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xiii) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.

(xvi) 52.225-2, Buy American Act Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xvii) 52.225-4, Buy American Act--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$77,494, the provision with its Alternate II applies.

(D) If the acquisition value is \$77,494 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to—

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

(2) The following certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

(i) 52.219-22, Small Disadvantaged Business Status.

(A) Basic.

(B) Alternate I.

(ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

(iii) 52.222-48, Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment Certification.

(iv) 52.222-52 Exemption from Application of the Service Contract Act to Contracts for Certain Services--Certification.

(v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

(vi) 52.227-6, Royalty Information.

(A) Basic.

(B) Alternate I.

(vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through <https://www.acquisition.gov>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of Provision)

K-3 52.209-7 –INFORMATION REGARDING RESPONSIBILITY MATTERS (FEB 2012)

(a) *Definitions.* As used in this provision—

“Administrative proceeding” means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (*e.g.*, Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceeding at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

“Federal contracts and grants with total value greater than \$10,000,000” means—

- (1) The total value of all current, active contracts and grants, including all priced options; and
- (2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (*e.g.*, general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror has does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked “has” in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in—

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the Central Contractor Registration database via <https://www.acquisition.gov> (see 52.204-7).

(End of provision)

K-4 252.204-7007 - ALTERNATE A, ANNUAL REPRESENTATIONS AND CERTIFICATIONS. (MAY 2013)

As prescribed in [204.1105](#), substitute the following paragraphs (d) and (e) for paragraph (d) of the provision at FAR 52.204-8:

(d)(1) The following representations or certifications in the System for Award Management (SAM) database are applicable to this solicitation as indicated:

(i) [252.209-7001](#), Disclosure of Ownership or Control by the Government of a Terrorist Country. Applies to all solicitations expected to result in contracts of \$150,000 or more.

(ii) [252.209-7003](#), Reserve Officer Training Corps and Military Recruiting on Campus—Representation. Applies to all solicitations with institutions of higher education.

(iii) [252.216-7008](#), Economic Price Adjustment—Wage Rates or Material Prices Controlled by a Foreign Government. Applies to solicitations for fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country, and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iv) [252.225-7042](#), Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(v) [252.229-7012](#), Tax Exemptions (Italy)—Representation. Applies to solicitations and contracts when contract performance will be in Italy.

(vi) [252.229-7013](#), Tax Exemptions (Spain)—Representation. Applies to solicitations and contracts when contract performance will be in Spain.

(vii) [252.247-7022](#), Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in SAM are applicable to this solicitation as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

- (i) [252.209-7002](#), Disclosure of Ownership or Control by a Foreign Government.
- (ii) [252.225-7000](#), Buy American—Balance of Payments Program Certificate.
- (iii) [252.225-7020](#), Trade Agreements Certificate.
 - Use with Alternate I.
- (iv) [252.225-7022](#), Trade Agreements Certificate—Inclusion of Iraqi End Products.
- (v) [252.225-7031](#), Secondary Arab Boycott of Israel.
- (vi) [252.225-7035](#), Buy American—Free Trade Agreements—Balance of Payments Program Certificate.
 - Use with Alternate I.
 - Use with Alternate II.
 - Use with Alternate III.
 - Use with Alternate IV.
 - Use with Alternate V.

(e) The offeror has completed the annual representations and certifications electronically via the SAM website at <https://www.acquisition.gov/>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in FAR 52.204-8(c) and paragraph (d) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer, and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [*offeror to insert changes, identifying change by provision number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR/DFARS Provision #	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications located in the SAM database.

(End of provision)

K-5 DFARS 252.209-7995 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW—FISCAL YEAR 2013 APPROPRIATIONS (DEVIATION 2013-00010) (APRIL 2013)

(a) In accordance with sections 8112 and 8113 of Division C and sections 514 and 515 of Division E of the Consolidated and Further Continuing Appropriations Act, 2013,(Pub. L. 113-6), none of the funds made available by that Act for DoD (including Military Construction funds) may be used to enter into a contract with any corporation that—

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the Government; or

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that—

(1) It is is not a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability,

(2) It is is not a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

K-6 252.225-7046 - EXPORTS BY APPROVED COMMUNITY MEMBERS IN RESPONSE TO THE SOLICITATION (JUNE 2013)

(a) *Definitions.* The definitions of "Approved Community", "defense articles", "Defense Trade Cooperation (DTC) Treaty", "export", "Implementing Arrangement", "qualifying defense articles", "transfer", and "U.S. DoD Treaty-eligible requirements" in DFARS clause [252.225-7047](#) apply to this provision.

(b) All contract line items in the contemplated contract, except any identified in this paragraph, are intended to satisfy U.S. DoD Treaty-eligible requirements. Specific defense articles that are not U.S. DoD Treaty-eligible will be identified as such in those contract line items that are otherwise U.S. DoD Treaty-eligible.

CONTRACT LINE ITEMS NOT INTENDED TO SATISFY

U.S. DoD TREATY-ELIGIBLE REQUIREMENTS:

[Enter Contract Line Item Number(s) or enter "None"]

(c) Approved Community members responding to the solicitation may only export or transfer defense articles that specifically respond to the stated requirements of the solicitation.

(d) Subject to the other terms and conditions of the solicitation and the contemplated contract that affect the acceptability of foreign sources or foreign end products, components, parts, or materials, Approved Community members are permitted, but not required, to use the DTC Treaties for exports or transfers of qualifying defense articles in preparing a response to this solicitation.

(e) Any conduct by an offeror responding to this solicitation that falls outside the scope of the DTC Treaties, the Implementing Arrangements, and the implementing regulations of the Department of State in 22 CFR 126.16 (Australia), 22 C.F.R. 126.17 (United Kingdom), and 22 C.F.R. 126 Supplement No. 1 (exempted technologies list) is subject to all applicable International Traffic in Arms Regulations (ITAR) requirements, including any criminal, civil, and administrative penalties or sanctions, as well as all other United States statutory and regulatory requirements outside of ITAR.

(f) If the offeror uses the procedures established pursuant to the DTC Treaties, the offeror agrees that, with regard to the export or transfer of a qualifying defense article associated with responding to the solicitation, the offeror shall—

(1) Comply with the requirements and provisions of the applicable DTC Treaties, the Implementing Arrangements, and corresponding regulations (including the ITAR) of the U.S. Government and the government of Australia or of the United Kingdom, as applicable;

(2) Prior to the export or transfer of a qualifying defense article—

(i) Mark, identify, transmit, store, and handle any defense articles provided for the purpose of responding to such solicitations, as well as any defense articles provided with or developed pursuant to their responses to such solicitations, in accordance with the DTC Treaties, the Implementing Arrangements, and corresponding regulations of the United States Government and the government of Australia or the government of the United Kingdom, as applicable, including, but not limited to, the marking and classification requirements described in the applicable regulations;

(ii) Comply with the re-transfer or re-export provisions of the DTC Treaties, the Implementing Arrangements, and corresponding regulations of the United States Government and the government of Australia or the government of the United Kingdom, as applicable, including, but not limited to, the re-transfer and re-export requirements described in the applicable regulations; and

(iii) Acknowledge that any conduct that falls outside or in violation of the DTC Treaties, Implementing Arrangements, and implementing regulations of the applicable government including, but not limited to, unauthorized re-transfer or re-export in violation of the procedures established in the applicable Implementing Arrangement and implementing regulations, remains subject to applicable licensing requirements of the government of Australia, the government of the United Kingdom, and the United States Government, as applicable, including any criminal, civil, and administrative penalties or sanctions contained therein; and

(g) *Representation*. The offeror shall check one of the following boxes and sign the representation:

The offeror represents that export(s) or transfer(s) of qualifying defense articles were made in preparing its response to this solicitation and that such export(s) or transfer(s) complied with the requirements of this provision.

Name/Title of Duly Authorized Representative Date

The offeror represents that no export(s) or transfer(s) of qualifying defense articles were made in preparing its response to this solicitation.

Name/Title of Duly Authorized Representative Date

(h) *Subcontracts*. Flow down the substance of this provision, including this paragraph (h), but excluding the representation at paragraph (g), to any subcontractor at any tier intending to use the DTC Treaties in responding to this solicitation.

(End of provision)

SECTION L

INSTRUCTIONS CONDITIONS AND NOTICES

TO OFFERORS OR RESPONDENTS

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

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

<http://www.acqnet.gov/far>

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

<u>FAR CLAUSE</u>	<u>TITLE</u>	
52.211-2	Availability Of Specifications, Standards, And Data Item Descriptions Listed In The Acquisition Streamlining And Standardization Information System (ASSIST)	(JAN 2006)
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)

<u>DFARS CLAUSE</u>	<u>TITLE</u>	
252.209-7001	Disclosure Of Ownership Or Control By The Government Of A Terrorist Country	(JAN 2009)
252.215-7008	Only One Offer	(JUN 2012)
252.225-7003	Report Of Intended Performance Outside The United States And Canada – Submission With Offer	(OCT 2010)

L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

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

Contracting Officer, ATTN: Eric Sogard, Code 3235

RFP No. N00173-13-R-SE02

Closing Date: 06/09/2014

Time: 2:00 PM (CST)

Naval Research Laboratory – SSC

Building 1008, RM 208

Stennis Space Center, MS 39529-5004

Proposals may be hand delivered to the Contracting Office, NRL-SSC, Stennis Space Center, MS 39529-5004, Building 1008, Room 208 between the hours of 8AM until 4PM, CDT, excluding weekends and federal holidays. Stennis Space Center is a controlled-access facility. Photo identification will be required. Please contact the NRL Contracts office at 228-688-5784 for directions and additional information about NRL-SSC. 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.

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE, EMERGENCY PREPAREDNESS, AND ENERGY PROGRAM USE (APR 2008)

Any contract awarded as a result of this solicitation will be DX rated order; DO rated order certified for national defense, emergency preparedness, and energy program 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 2010) ALTERNATE IV (OCT 2010)

Submission of cost or pricing data is not required.

See Section L-14 Volume II – Business Proposal

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

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

L-6 52.222-46 -- EVALUATION OF COMPENSATION FOR PROFESSIONAL EMPLOYEES (FEB 1993)

(a) Recompensation of service contracts may in some cases result in lowering the compensation (salaries and fringe benefits) paid or furnished professional employees. This lowering can be detrimental in obtaining the quality of professional services needed for adequate contract performance. It is therefore in the Government's best interest that professional employees, as defined in 29 CFR 541, be properly and fairly compensated. As part of their proposals, offerors will submit a total compensation plan setting forth salaries and fringe benefits proposed for the professional employees who will work under the contract. The Government will evaluate the plan to assure that it reflects a sound management approach and understanding of the contract requirements. This evaluation will include an assessment of the offeror's ability to provide uninterrupted high-quality work. The professional compensation proposed will be considered in terms of its impact upon recruiting and retention, its realism, and its consistency with a total plan for compensation. Supporting information will include data, such as recognized national and regional compensation surveys and studies of professional, public and private organizations, used in establishing the total compensation structure.

(b) The compensation levels proposed should reflect a clear understanding of work to be performed and should indicate the capability of the proposed compensation structure to obtain and keep suitably qualified personnel to meet mission objectives. The salary rates or ranges must take into account differences in skills, the complexity of various disciplines, and professional job difficulty. Additionally, proposals envisioning compensation levels lower than those of predecessor contractors for the same work will be evaluated on the basis of maintaining program continuity, uninterrupted high-quality work, and availability of required competent professional service employees. Offerors are cautioned that lowered compensation for essentially the same professional work may indicate lack of sound management judgment and lack of understanding of the requirement.

(c) The Government is concerned with the quality and stability of the work force to be employed on this contract. Professional compensation that is unrealistically low or not in reasonable relationship to the various job categories, since it may impair the Contractor's ability to attract and retain competent professional service employees, may be viewed as evidence of failure to comprehend the complexity of the contract requirements.

(d) Failure to comply with these provisions may constitute sufficient cause to justify rejection of a proposal.

(End of Provision)

L-7 FAR 52.233-2 - SERVICE OF PROTEST (SEP 2006)

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 Government Accountability 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.

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 252.215-7009 – PROPOSAL ADEQUACY CHECKLIST (MAR 2013)

The offeror shall complete the following checklist, providing location of requested information, or an explanation of why the requested information is not provided. In preparation of the offeror’s checklist, offerors may elect to have their prospective subcontractors use the same or similar checklist as appropriate.

PROPOSAL ADEQUACY CHECKLIST

	REFERENCES	SUBMISSION ITEM	PROPOSAL PAGE No.	If not provided EXPLAIN (may use continuation pages)
GENERAL INSTRUCTIONS				
1.	FAR 15.408, Table 15-2, Section I Paragraph A	Is there a properly completed first page of the proposal per FAR 15.408 Table 15-2 I.A or as specified in the solicitation?		
2.	FAR 15.408, Table 15-2, Section I Paragraph A(7)	Does the proposal identify the need for Government-furnished material/tooling/test equipment? Include the accountable contract number and contracting officer contact information if known.		
3.	FAR 15.408, Table 15-2, Section I Paragraph A(8)	Does the proposal identify and explain notifications of noncompliance with Cost Accounting Standards Board or Cost Accounting Standards (CAS); any proposal inconsistencies with your disclosed practices or applicable CAS; and inconsistencies with your established estimating and accounting principles and procedures?		
4.	FAR 15.408, Table	Does the proposal disclose any other known activity that could materially		

	15-2, Section I, Paragraph C(1) FAR 2.101, "Cost or pricing data"	<p>impact the costs?</p> <p>This may include, but is not limited to, such factors as—</p> <ul style="list-style-type: none"> (1) Vendor quotations; (2) Nonrecurring costs; (3) Information on changes in production methods and in production or purchasing volume; (4) Data supporting projections of business prospects and objectives and related operations costs; (5) Unit-cost trends such as those associated with labor efficiency; (6) Make-or-buy decisions; (7) Estimated resources to attain business goals; and (8) Information on management decisions that could have a significant bearing on costs. 		
5.	FAR 15.408, Table 15-2, Section I Paragraph B	Is an Index of all certified cost or pricing data and information accompanying or identified in the proposal provided and appropriately referenced?		
6.	FAR 15.403-1(b)	Are there any exceptions to submission of certified cost or pricing data pursuant to FAR 15.403-1(b)? If so, is supporting documentation included in the proposal? (Note questions 18-20.)		
7.	FAR 15.408, Table 15-2, Section I Paragraph C(2)(i)	Does the proposal disclose the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data?		
8.	FAR 15.408, Table 15-2, Section I Paragraph C(2)(ii)	Does the proposal disclose the nature and amount of any contingencies included in the proposed price?		
9.	FAR 15.408 Table 15-2, Section II, Paragraph A or B	Does the proposal explain the basis of all cost estimating relationships (labor hours or material) proposed on other than a discrete basis?		
10.	FAR 15.408, Table	Is there a summary of total cost by		

	15-2, Section I Paragraphs D and E	element of cost and are the elements of cost cross-referenced to the supporting cost or pricing data? (Breakdowns for each cost element must be consistent with your cost accounting system, including breakdown by year.)		
11.	FAR 15.408, Table 15-2, Section I Paragraphs D and E	If more than one Contract Line Item Number (CLIN) or sub Contract Line Item Number (sub-CLIN) is proposed as required by the RFP, are there summary total amounts covering all line items for each element of cost and is it cross-referenced to the supporting cost or pricing data?		
12.	FAR 15.408, Table 15-2, Section I Paragraph F	Does the proposal identify any incurred costs for work performed before the submission of the proposal?		
13.	FAR 15.408, Table 15-2, Section I Paragraph G	Is there a Government forward pricing rate agreement (FPRA)? If so, the offeror shall identify the official submittal of such rate and factor data. If not, does the proposal include all rates and factors by year that are utilized in the development of the proposal and the basis for those rates and factors?		
COST ELEMENTS				
MATERIALS AND SERVICES				
14.	FAR 15.408, Table 15-2, Section II Paragraph A	Does the proposal include a consolidated summary of individual material and services, frequently referred to as a Consolidated Bill of Material (CBOM), to include the basis for pricing? The offeror's consolidated summary shall include raw materials, parts, components, assemblies, subcontracts and services to be produced or performed by others, identifying as a minimum the item, source, quantity, and price.		
SUBCONTRACTS (Purchased materials or services)				
15.	DFARS 215.404-3	Has the offeror identified in the proposal those subcontractor		

		proposals, for which the contracting officer has initiated or may need to request field pricing analysis?		
16.	FAR 15.404-3(c) FAR 52.244-2	Per the thresholds of FAR 15.404-3(c), Subcontract Pricing Considerations, does the proposal include a copy of the applicable subcontractor's certified cost or pricing data?		
17.	FAR 15.408, Table 15-2, Note 1; Section II Paragraph A	Is there a price/cost analysis establishing the reasonableness of each of the proposed subcontracts included with the proposal? If the offeror's price/cost analyses are not provided with the proposal, does the proposal include a matrix identifying dates for receipt of subcontractor proposal, completion of fact finding for purposes of price/cost analysis, and submission of the price/cost analysis?		
EXCEPTIONS TO CERTIFIED COST OR PRICING DATA				
18.	FAR 52.215-20 FAR 2.101, "commercial item"	Has the offeror submitted an exception to the submission of certified cost or pricing data for commercial items proposed either at the prime or subcontractor level, in accordance with provision 52.215-20? a. Has the offeror specifically identified the type of commercial item claim (FAR 2.101 commercial item definition, paragraphs (1) through (8)), and the basis on which the item meets the definition? b. For modified commercial items (FAR 2.101 commercial item definition paragraph (3)); did the offeror classify the modification(s) as either— i. A modification of a type customarily available in the commercial marketplace (paragraph (3)(i)); or ii. A minor modification (paragraph (3)(ii)) of a type not customarily available in the commercial		

		marketplace made to meet Federal Government requirements not exceeding the thresholds in FAR 15.403-1(c)(3)(iii)(B)? c. For proposed commercial items “of a type”, or “evolved” or modified (FAR 2.101 commercial item definition paragraphs (1) through (3)), did the contractor provide a technical description of the differences between the proposed item and the comparison item(s)?		
19.	FAR 15.408, Table 15-2, Section II Paragraph A	Does the proposal include a price analysis for all commercial items offered that are not available to the general public?		
20.	FAR 15.408, Table 15-2, Section II Paragraph A(1)	Does the proposal support the degree of competition and the basis for establishing the source and reasonableness of price for each subcontract or purchase order priced on a competitive basis exceeding the threshold for certified cost or pricing data?		
INTERORGANIZATIONAL TRANSFERS				
21.	FAR 15.408, Table 15-2, Section II Paragraph A.(2)	For inter-organizational transfers proposed at cost, does the proposal include a complete cost proposal in compliance with Table 15-2?		
22.	FAR 15.408, Table 15-2, Section II Paragraph A(1)	For inter-organizational transfers proposed at price in accordance with FAR 31.205-26(e), does the proposal provide an analysis by the prime that supports the exception from certified cost or pricing data in accordance with FAR 15.403-1?		
DIRECT LABOR				
23.	FAR 15.408, Table 15-2, Section II Paragraph B	Does the proposal include a time phased (i.e.; monthly, quarterly) breakdown of labor hours, rates and costs by category or skill level? If labor is the allocation base for indirect costs, the labor cost must be summarized in order that the		

		applicable overhead rate can be applied.		
24.	FAR 15.408, Table 15-2, Section II Paragraph B	For labor Basis of Estimates (BOEs), does the proposal include labor categories, labor hours, and task descriptions, (e.g.; Statement of Work reference, applicable CLIN, Work Breakdown Structure, rationale for estimate, applicable history, and time-phasing)?		
25.	FAR subpart 22.10	If covered by the Service Contract Labor Standards statute (41 U.S.C. chapter 67), are the rates in the proposal in compliance with the minimum rates specified in the statute?		
INDIRECT COSTS				
26.	FAR 15.408, Table 15-2, Section II Paragraph C	Does the proposal indicate the basis of estimate for proposed indirect costs and how they are applied? (Support for the indirect rates could consist of cost breakdowns, trends, and budgetary data.)		
OTHER COSTS				
27.	FAR 15.408, Table 15-2, Section II Paragraph D	Does the proposal include other direct costs and the basis for pricing? If travel is included does the proposal include number of trips, number of people, number of days per trip, locations, and rates (e.g. airfare, per diem, hotel, car rental, etc)?		
28.	FAR 15.408, Table 15-2, Section II Paragraph E	If royalties exceed \$1,500 does the proposal provide the information/data identified by Table 15-2?		
29.	FAR 15.408, Table 15-2, Section II Paragraph F	When facilities capital cost of money is proposed, does the proposal include submission of Form CASB-CMF or reference to an FPRA/FPRP and show the calculation of the proposed amount?		
FORMATS FOR SUBMISSION OF LINE ITEM SUMMARIES				
30.	FAR 15.408, Table	Are all cost element breakdowns		

	15-2, Section III	provided using the applicable format prescribed in FAR 15.408, Table 15-2 III? (or alternative format if specified in the request for proposal)		
31.	FAR 15.408, Table 15-2, Section III Paragraph B	If the proposal is for a modification or change order, have cost of work deleted (credits) and cost of work added (debits) been provided in the format described in FAR 15.408, Table 15-2.III.B?		
32.	FAR 15.408, Table 15-2, Section III Paragraph C	For price revisions/redeterminations, does the proposal follow the format in FAR 15.408, Table 15-2.III.C?		
OTHER				
33.	FAR 16.4	If an incentive contract type, does the proposal include offeror proposed target cost, target profit or fee, share ratio, and, when applicable, minimum/maximum fee, ceiling price?		
34.	FAR 16.203-4 and FAR 15.408 Table 15-2, Section II, Paragraphs A, B, C, and D	If Economic Price Adjustments are being proposed, does the proposal show the rationale and application for the economic price adjustment?		
35.	FAR 52.232-28	If the offeror is proposing Performance-Based Payments did the offeror comply with FAR 52.232-28?		
36.	FAR 15.408(n) FAR 52.215-22 FAR 52.215-23	Excessive Pass-through Charges– Identification of Subcontract Effort: If the offeror intends to subcontract more than 70% of the total cost of work to be performed, does the proposal identify: (i) the amount of the offeror’s indirect costs and profit applicable to the work to be performed by the proposed subcontractor(s); and (ii) a description of the added value provided by the offeror as related to the work to be performed by the proposed subcontractor(s)?		

(End of provision)

L-9 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JAN 2011)

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 Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation 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 Innovation Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovation Research (SBIR) Program clause.

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 Innovation 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.

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.

The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

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

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

Technical Data or Computer Software to be Furnished Basis for Rights Asserting 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 Insert description

Printed Name and Title Insert description

Insert description

Signature _____

(End of identification and assertion)

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.

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-10 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 - -

The contract number under which the data or software were produced;

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

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-11 GOVERNMENT-FURNISHED PROPERTY

For contractor personnel working on-site a NRL's Washington DC facility and any government field site; the day to day general office needs will be provided by the government. Items such as desks, chairs, telephones, computers, printers, e-mail accounts, access to facsimile machines, copiers and common office supplies will be supplied by NRL at no cost to the contractor.

General purpose and specialized facilities, laboratories, test equipment and related supplies along with limited off-site use of computers will also be provided by NRL. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

L-12 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 of the Standard Form 33, *Solicitation, Offer and Award (SF33)*.

Question may be submitted by email to the Contracting Officer at the email address in block 10(c) of the SF33. Question must be submitted *no* less than ten (10) days before the closing date of the solicitation. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-13 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-14 SECURITY REQUIREMENTS

Access to classified information is not required to submit a proposal for this statement of work. However, prospective offerors shall have the required facility clearance in accordance with attached DD254 at the time of proposal and personnel available with final DoD granted personnel security clearances required for performance of the contract.

L-15 ANTICIPATED DISTRIBUTION OF DIRECT LABOR HOURS BY LABOR CATEGORIES AND MAJOR TASK/CLIN

The following is the anticipated distribution by labor category of the estimated level of effort. This distribution shall be used by the offeror in preparing the cost proposal. If the offeror uses labor category terminology other than that used in this provision, the offeror must provide a matrix clearly relating their proposed labor categories to those in this provision.

BASE YEAR**TASKS/CLIN**

3.1/0001	Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002	VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003	Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004	Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Hours				Yearly Total
	Task 3.1	Task 3.2	Task 3.3	Task 3.4	
A. Program Manager	780	520	520	780	2600
B. Senior Research Engineer	1560	1560	1560	520	5200
C. Senior Research Scientist	780	1040	780	520	3120
D. Senior Research Test Engineer	520	1040	1040	520	3120
E. Research Test Engineer	520	780	780	0	2080
F. Research Engineer/Scientist	260	520	260	0	1040
G. Junior Research Engineer/Scientist	0	260	260	0	520
H. Senior Research Analyst	780	780	780	260	2600
I. Research Analyst	520	520	520	0	1560
J. Junior Research Analyst	0	260	260	0	520
K. Lead Hardware Design Engineer	780	1300	1040	0	3120
L. Senior Software Engineer/Scientist	1300	1820	1560	260	4940
M. Software Engineer/Scientist	260	260	260	260	1040
N. Senior Systems Analyst	1040	1040	780	260	3120
O. Senior Cyber Warfare/Information Assurance Specialist	260	260	260	260	1040
P. Cyber Warfare/ Information Assurance Specialist	260	260	260	260	1040
TOTAL HOURS	9,620	12,220	10,920	3,900	36,660

OPTION 1 – Year 2**TASKS/CLIN**

- 3.1/0001** Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002 VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003 Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004 Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Hours				Yearly Total
	Task 3.1	Task 3.2	Task 3.3	Task 3.4	
A. Program Manager	520	780	780	520	2600
B. Senior Research Engineer	1300	2080	1820	520	5720
C. Senior Research Scientist	1040	1820	1860	520	5240
D. Senior Research Test Engineer	1040	2600	2600	240	6480
E. Research Test Engineer	520	1300	1300	0	3120
F. Research Engineer/Scientist	520	780	520	260	2080
G. Junior Research Engineer/Scientist	0	520	520	0	1040
H. Senior Research Analyst	520	780	780	520	2600
I. Research Analyst	780	520	520	260	2080
J. Junior Research Analyst	0	520	520	0	1040
K. Lead Hardware Design Engineer	1040	1560	1560	0	4160
L. Senior Software Engineer/Scientist	1560	2860	2600	780	7800
M. Software Engineer/Scientist	260	520	780	520	2080
N. Senior Systems Analyst	520	1820	1560	780	4680
O. Senior Cyber Warfare/Information Assurance Specialist	260	260	520	520	1560
P. Cyber Warfare/ Information Assurance Specialist	260	520	520	260	1560
TOTAL HOURS	10,140	19,240	18,760	5,700	53,840

OPTION 2 Year 3**TASKS/CLIN**

- 3.1/0001** Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002 VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003 Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004 Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Task 3.1	Task 3.2	Task 3.3	Task 3.4	Yearly Total
A. Program Manager	520	520	260	520	1820
B. Senior Research Engineer	520	1560	1560	1040	4680
C. Senior Research Scientist	780	1040	1040	260	3120
D. Senior Research Test Engineer	1820	2080	2080	500	6480
E. Research Test Engineer	780	1820	1560	0	4160
F. Research Engineer/Scientist	1040	780	1560	780	4160
G. Junior Research Engineer/Scientist	0	780	780	0	1560
H. Senior Research Analyst	520	1040	780	780	3120
I. Research Analyst	520	1040	1560	520	3640
J. Junior Research Analyst	0	520	520	0	1040
K. Lead Hardware Design Engineer	260	1300	1300	260	3120
L. Senior Software Engineer/Scientist	1040	1560	1300	780	4680
M. Software Engineer/Scientist	0	520	260	260	1040
N. Senior Systems Analyst	1040	1300	1560	260	4160
O. Senior Cyber Warfare/Information Assurance Specialist	260	260	520	520	1560
P. Cyber Warfare/ Information Assurance Specialist	260	520	520	260	1560
TOTAL HOURS	9,360	16,640	17,160	6,740	49,900

OPTION 3 Year 4**TASKS/CLIN**

- 3.1/0001** Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002 VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003 Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004 Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Task 3.1	Task 3.2	Task 3.3	Task 3.4	Yearly Total
A. Program Manager	520	520	260	520	1820
B. Senior Research Engineer	780	1300	1300	780	4160
C. Senior Research Scientist	520	1040	1300	260	3120
D. Senior Research Test Engineer	1560	2340	2340	240	6480
E. Research Test Engineer	1040	1560	1560	0	4160
F. Research Engineer/Scientist	1040	1040	1040	1040	4160
G. Junior Research Engineer/Scientist	260	520	780	0	1560
H. Senior Research Analyst	520	1300	1300	1040	4160
I. Research Analyst	520	1040	1560	1040	4160
J. Junior Research Analyst	260	520	780	0	1560
K. Lead Hardware Design Engineer	0	260	520	260	1040
L. Senior Software Engineer/Scientist	780	1560	1560	1300	5200
M. Software Engineer/Scientist	260	520	780	520	2080
N. Senior Systems Analyst	520	780	1300	520	3120
O. Senior Cyber Warfare/Information Assurance Specialist	0	260	260	520	1040
P. Cyber Warfare/ Information Assurance Specialist	260	260	520	260	1040
TOTAL HOURS	8,840	14,820	16,900	8,300	48,860

OPTION 4 Year 5**TASKS/CLIN**

- 3.1/0001** Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002 VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003 Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004 Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Task 3.1	Task 3.2	Task 3.3	Task 3.4	Yearly Total
A. Program Manager	520	520	780	520	2340
B. Senior Research Engineer	1040	1820	1560	780	5200
C. Senior Research Scientist	780	1560	1300	520	4160
D. Senior Research Test Engineer	780	1560	1040	780	4160
E. Research Test Engineer	780	1560	1820	0	4160
F. Research Engineer/Scientist	520	780	1300	520	3120
G. Junior Research Engineer/Scientist	0	520	520	0	1040
H. Senior Research Analyst	780	780	1040	1560	4160
I. Research Analyst	780	1300	1040	1040	4160
J. Junior Research Analyst	260	780	520	0	1560
K. Lead Hardware Design Engineer	0	520	520	0	1040
L. Senior Software Engineer/Scientist	1040	2080	2080	1560	6760
M. Software Engineer/Scientist	520	520	520	520	2080
N. Senior Systems Analyst	520	1300	1300	520	3640
O. Senior Cyber Warfare/Information Assurance Specialist	0	0	260	260	520
P. Cyber Warfare/ Information Assurance Specialist	0	260	260	520	1040
TOTAL HOURS	8,320	15,860	15,860	9,100	49,140

SUMMARY YEARS 1-5**TASKS/CLIN**

3.1/0001	Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
3.2/0002	VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
3.3/0003	Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
3.4/0004	Navy/DoD Acquisition Program Support incl IA and AT

LABOR CATEGORY	Task 3.1	Task 3.2	Task 3.3	Task 3.4	Yearly Total
A. Program Manager	2860	2860	2600	2860	11180
B. Senior Research Engineer	5200	8320	7800	3640	24960
C. Senior Research Scientist	3900	6500	6280	2080	18760
D. Senior Research Test Engineer	5720	9620	9100	2280	26720
E. Research Test Engineer	3640	7020	7020	0	17680
F. Research Engineer/Scientist	3380	3900	4680	2600	14560
G. Junior Research Engineer/Scientist	260	2600	2860	0	5720
H. Senior Research Analyst	3120	4680	4680	4160	16640
I. Research Analyst	3120	4420	5200	2860	15600
J. Junior Research Analyst	520	2600	2600	0	5720
K. Lead Hardware Design Engineer	2080	4940	4940	520	12480
L. Senior Software Engineer/Scientist	5720	9880	9100	4680	29380
M. Software Engineer/Scientist	1300	2340	2600	2080	8320
N. Senior Systems Analyst	3640	6240	6500	2340	18720
O. Senior Cyber Warfare/Information Assurance Specialist	780	1040	1820	2080	5720
P. Cyber Warfare/ Information Assurance Specialist	1040	1820	1820	1560	6240
TOTAL HOURS	46,280	78,780	79,600	33,740	238,400

L-16 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**REQUIRED COPIES:**

1 ELECTRONIC: Offerors shall email an electronic version of the Technical/Management Proposal to the Contract Specialist – Eric Sogard, at eric.sogard@nrlssc.navy.mil.

1 ORIGINAL and 1 COPY shall be mailed to the Contracting Officer in accordance with the instructions at Section L-2.

(1) The offeror must propose the labor categories in accordance with the Anticipated Distribution of Direct Labor Hours by Categories and Major Task/CLIN breakdown in Section L-16 above. If the offeror uses labor category terminology other than that used in Section L, the offer must provide a matrix clearly relating their proposed labor categories to those stated.

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

PERSONNEL QUALIFICATIONS – The offeror shall provide convincing evidence that the company has, or has the ability to obtain personnel at time of contract award, with relevant qualifications and experience in the technical areas described in the Personnel Qualifications attachment to the RFP. These areas are highly specialized and personnel without actual recent experience in these areas are not acceptable. The proposal must indicate the specific personnel to be assigned to this effort and should clearly demonstrate how each person offered meets the personnel qualifications as detailed in the Solicitation. Specifically, the proposal should detail each person's background, qualifications and pertinent experience as it relates to the relevant area of the Statement of Work (SOW) and Personnel Qualifications requirements. Proposed personnel that meet any or all of the desired qualifications in addition to meeting the minimum required qualifications will receive a higher rating. The proposal should specify the amount of effort each person will be performing on this contract, both by the prime contractor, as well as, any proposed subcontractors. A resume' is required for all key personnel and desired for all specific personnel proposed. Subcontract agreements and Letters of Intent shall be provided for all consultants, subcontractors and personnel not currently on staff. It is essential for the offeror to demonstrate that all personnel possess or will be capable of possessing a final favorable DoD adjudicated clearance commensurate with the level of access required for the performance of this contract prior to commencing work. The offer shall include a compensation plan as detailed in Section L-7.

COMPANY EXPERIENCE – The offeror must provide a narrative description that clearly demonstrates the company's experience on projects with scientific, engineering and technical tasks similar in size, scope and complexity to those required in the SOW. The documentation should be sufficient to support both the prime and subcontractors' breadth and depth of experience as it relates to the SOW and should clearly demonstrate (1) the relationship between the company's experience and the tasks required under the SOW and (2) prior or current programs in the task areas.

MANAGEMENT ABILITY – The contractor shall include in its proposal a Contractor's Management Plan (CMP) defining the contractor's approach to implementing the contract. The CMP provides the Government insight to the systems, processes, and structure within which the contractor operates. The CMP should include, as applicable: quality control, risk management, systems engineering, software development, configuration management and subcontract management.

The offeror must provide a narrative description of its management experience on projects with scientific, engineering and technical efforts similar to those required in the SOW. This description should clearly demonstrate how the contractor's management plan defines the company's management efforts resulted in its ability to meet performance requirements, cost, and schedule goals on projects of similar size and complexity. The offeror should demonstrate

the management controls, procedures and methods necessary to assure accomplishment of procurement, subcontracting, status reporting, security and personnel staffing requirements.

The offeror shall also provide a detailed Transition Plan that outlines the strategy for assuring a smooth and effective transition. The Transition Plan must identify, via a schedule and a milestone chart, the proposed approach to the phase-in of management and technical personnel and the implantation of control procedures and methods. The impact on the transition schedule, as well as, a description of how transition delays will be mitigated, must be explained in the offeror's Transition Plan. The Plan must also clearly demonstrate how the company plans to establish adequate facilities, equipment, program management, and controls to be ready to accomplish the tasks in the SOW, within the proposed transition period, in a manner that minimizes the impact to the schedules of ongoing efforts.

PAST PERFORMANCE –

(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.) A list of the most recent, up to five (5) contracts or subcontracts completed by the offeror or predecessor companies and its major subcontractors during the past three (3) years for services similar in nature to this requirement. Include in the list 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.

The list must include at a minimum the following information:

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's name 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 **or preferably email to the email address in block 10(c)**. The past performance report which is available electronically in full text at http://heron.nrl.navy.mil/contracts/4335_1.pdf 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-17 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES:

1 ELECTRONIC: Offerors shall email an electronic version of the Business Proposal to the Contract Specialist – Eric Sogard, at eric.sogard@nrlssc.navy.mil.

1 ORIGINAL and 1 COPY shall be mailed to the Contracting Officer in accordance with the instructions at Section L-2.

(1) COST PROPOSAL

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

The following travel and material estimates are for evaluation purposes only. The government estimates the travel costs and material costs as follows:

Term	Base	Opt 1-Yr 2	Opt 2-Yr 3	Opt 3-Yr 4	Opt 4-Yr 5	5-Yr Total
Material (CLIN 0005)	\$30,000	\$35,000	\$30,000	\$115,000	\$60,000	\$270,000
Travel (CLIN 0006)	\$53,000	\$113,000	\$198,000	\$231,500	\$204,000	\$799,500

All offers will be evaluated using the estimated amounts provided above plus applicable indirect costs.

The contractor shall furnish a copy of the cost proposal to their cognizant DCAA office. The cover page of the proposal shall clearly indicate the RFP Number, the Contracting Officer's name and phone number and the following statement:

“The Contracting Officer has directed that this advance copy be sent to you in anticipation of the RATE CHECK that will be requested in order to determine cost realism in accordance with FAR 15.305 and 15.404(d).”

(2) COST/PRICE TEMPLATE: In addition to the offerors cost proposal submission, offerors shall provide a completed Cost/Price Template similar to Section J-5 – Attachment (5).

L-18 POTENTIAL ORGANIZATIONAL CONFLICTS OF INTEREST

Pursuant to FAR 9.5 and the definitions provided therein:

Definitions

Organizational Conflict of Interest: FAR 2.1 defines “Organizational Conflict of Interest” as a situation in which “...because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage.” For the purposes of this contract, the term Organizational Conflict of Interest means that a relationship exists between the contractor (including the successor-in-interest, assignee or affiliated divisions, subsidiaries, employees, consultants, or subcontractors, hereinafter referred to as “Contractor”) and another in which the underlying interests of the contractor and the other party directly or indirectly (1) may influence, affect or diminish the contractor's ability to give impartial, technically sound, objective assistance, conclusions, advice or recommendations, or may otherwise result in a biased work product to or for the Government, or (2) may result in an unfair competitive advantage.

Purpose

The primary purpose of this clause is to ensure that the Contractor (1) does not obtain an unfair competitive advantage over other parties by virtue of its performance of this contract, and (2) is not biased because of its current or planned interests (financial, contractual, organizational or otherwise) which relate to the work under this contract.

Description of the Effort

This contract is for research and development activities in support of various NRL Programs. In the performance of this contract, the contractor may be required to make certain findings, conclusions and recommendations to the Government. The Contractor may also be required to have access to other Contractor's proprietary data in order to make those findings, conclusions

and recommendations to the Government. Because the Government requires total objectivity and impartiality in performance of this contract, the contractor must be free from any biased influences and interests which will impact, directly or indirectly, on the contractor's decision making process.

Nature of Conflict

Areas of potential conflicts could include, but are not limited to, the following areas as defined in FAR 9.505:

1. Providing systems engineering scientific and technical direction,
2. Preparing specifications or work statements,
3. Providing evaluation services,
4. Obtaining access to proprietary information, and
5. Providing evaluations assessments of and develop recommendations for new and existing technologies.

Disclosure Statement

If the Offeror **is** aware of circumstances that may hinder its ability to render impartial, technically sound, and unbiased assessments, recommendations and/or evaluations; or that circumstances exist that may result in the appearance that it may have any unfair competitive advantage, the offeror shall provide a full disclosure statement. The statement must describe in a concise manner all relevant facts concerning any past, present or currently planned interest (financial, contractual, organizational, or otherwise) relating to the work to be performed hereunder and bearing on whether the offeror has a possible organizational conflict of interest with respect to (1) impartial, technically sound, and unbiased assessments, recommendations and/or evaluations, or (2) being given an unfair competitive advantage. Prospective Offerors should refer to FAR 9.5 for policies and procedures for avoiding, neutralizing, or mitigating organizational conflicts of interest. If the Offeror **is not** aware of any circumstances of this nature, then the Offeror shall provide a statement stating such.

The government will review the statement submitted and may require additional relevant information from the offeror. All such information and any other relevant information will be used by the government to determine whether an award to the offeror may create an organizational conflict of interest. If found to exist, the Government may (1) impose appropriate conditions which avoid such conflict, (2) disqualify the offeror, or (3) determine that it is otherwise in the best interest of the Government to contract with the offeror by including appropriate conditions mitigating such conflict in the contract awarded.

The refusal to provide the disclosure of any additional information as required shall result in disqualification of the offeror for award. The nondisclosure or misrepresentation of any relevant interest may also result in the disqualification of the offeror for award, or if such nondisclosure or misrepresentation is discovered after award, the Government may terminate the contract for default, recommend that the contractor be disqualified from subsequent related contracts, or be subject to such other remedial actions as may be permitted or provided by law. The attention of the offeror in complying with this provision is directed to 18 U.S.C. 1001 and 31 U.S.C. 3802(a)(2).

Depending on the nature of the contract activities, the offeror may, because of possible organizational conflicts of interest, propose to exclude specific kinds of work from the statement, unless the solicitation specifically prohibits such exclusion. Any such proposed exclusion by an offeror shall be considered by the Government in the evaluation of proposals, and if the Government considers the proposed excluded work to be an essential or integral part of the required work, the proposal may be rejected as unacceptable.

No award shall be made until the disclosure has been evaluated by the Government. Failure to provide the disclosure will be deemed to be a minor informality and the offeror or contractor shall be required to promptly correct the omission.

If the Contracting Officer determines that a potential conflict exists, the prospective offeror shall not receive an award unless the conflict can be avoided or otherwise resolved through the inclusion of a special contract clause or other appropriate means. The terms of this clause are subject to negotiation.

SECTION M

EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

- (a) Award will be made to the responsible offeror whose proposal is determined to provide the best overall value to the Government in accordance with the established criteria and rating methodology set forth in Section M-2 below.

- (b) Selection will be based on a complete assessment of each offeror’s technical proposal, past performance information and cost proposal. Within the best value continuum, the Government will employ a Price/Technical Tradeoff analysis of both price and non-price factors (FAR 15.101-1) in evaluating each proposal submitted. The Technical Factors are listed in decreasing order of importance (See table under Section M-2 Evaluation Factors for Award) with Personnel Qualifications being the most important followed by Company Experience and Management Ability. The non-price evaluation criteria (technical, past performance), when combined, are significantly more important than cost or price. However, as non-price factors become closer in perceived value, cost considerations will become more important. Trade-off considerations may result in the determination that it is in the best interest of the Government to award to other than the lowest priced offeror or other than the highest technically rated offeror.

- (c) To be considered for award, a rating of no less than “Acceptable” must be achieved for the technical factors.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. All evaluation factors other than cost or price, when combined, are significantly more important than cost or price.

(a) The following chart depicts the Evaluation Factors to be used:

NON-PRICE FACTORS
Technical Factors
(1) Personnel Qualifications
(2) Company Experience
(3) Management Ability
Other Non Cost Factors
(4) Past Performance
Cost Factor

(b) Adjectival Ratings/Definitions:

1. The following adjectival ratings and rating definitions will be used to assign an overall rating to each technical proposal except Past Performance:

Table 1. Combined Technical/Risk Ratings		
Color	Rating	Description
Blue	Outstanding	Proposal meets and exceeds minimum qualifications, experience and requirements and indicates an exceptional managerial approach and understanding of the requirements. Strengths far outweigh any weaknesses. Risk of unsuccessful performance is very low.
Purple	Good	Proposal meets minimum and exceeds some of the qualifications, experience and requirements and indicates a thorough managerial approach and understanding of the requirements. Proposal contains strengths which outweigh any weaknesses. Risk of unsuccessful performance is low.
Green	Acceptable	Proposal meets minimum qualifications, experience and requirements and indicates an adequate managerial approach and understanding of the requirements. Strengths and weaknesses are offsetting or will have little or no impact on contract performance. Risk of unsuccessful performance is no worse than moderate.
Yellow	Marginal	Proposal does not clearly meet minimum qualifications, experience and requirements and has not demonstrated an adequate managerial approach and understanding of the requirements. The proposal has one or more weaknesses which are not offset by strengths. Risk of unsuccessful performance is high
Red	Unacceptable	Proposal does not meet minimum qualifications, experience and requirements and contains one or more deficiencies. Proposal is unawardable.

2 Definitions: The following definitions are provided to assist evaluators in the evaluation of each factor.

Definitions	
Strength	A proposed method or technique in the proposal that exceeds the solicitation requirements and is of value to the Government.
Weakness	A flaw in the proposal that increases the risk of unsuccessful contract performance.
Significant Weakness	A flaw that appreciably increases the risk of unsuccessful contract performance.
Deficiency	A material failure of a proposal to meet a Government requirement or a combination of significant weaknesses in a proposal that increases the risk of unsuccessful contract performance to an unacceptable level.

(c) Rating Methodology

All proposals shall be subject to evaluation by a team of Government personnel.

1. The evaluation will be based on a complete assessment of the offeror's technical proposal, past performance information and price proposal. Technical is more important than past performance. The non-price evaluation criteria (Technical and Past Performance) when combined, are significantly more important than price. However, price becomes more important as non-price factors become equal.

Non-price technical proposals shall be evaluated on the following three (3) factors which are ranked in the following descending order of importance: Personnel Qualifications followed by Company Experience and Management Ability. The other non-price factor is Past Performance.

2. Proposals will be assessed on how well each offeror's proposal meets the solicitation requirements and the risks associated with the offeror's approach. Determining how well the offeror's proposal meets the solicitation requirements will be accomplished in two steps. First, a determination will be made if the offeror's proposal meets the solicitation requirements. Next, the discriminators will be identified for the proposals reflecting the unique strengths, weaknesses, significant weaknesses, and deficiencies of each offer. In addition, the Government will examine the impact of each discriminator and assess its relative value to the Government. In order to make a sound selection decision, the Government needs to understand the ways in which a given proposal is considered technically strong, as well as the ways in which it is weak or deficient. Hence, a catalog of the strengths, weaknesses, and deficiencies (in terms of the evaluation criteria) will be utilized to facilitate the process of determining which proposal presents the best overall value to the Government.

3. The offerors will receive one overall rating value for the non-price proposal evaluation factors. Price, while being an important factor, is not in and of itself the determining factor in the selection of the successful offeror for award of the contract contemplated by this solicitation. The Contracting Officer may reasonably determine that the superior personnel, company experience or management ability merits a higher price, and therefore represents the best value to the Government. The Contracting Officer, using sound business judgment, will base the selection decision on the integrated assessment of the Offeror(s)' non-price factors and price factor measured against the evaluation criteria listed below:

M-2-1. TECHNICAL PROPOSAL

Factor 1 - PERSONNEL QUALIFICATIONS: The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with:

- 1) Appropriate qualifications including relevant experience, education and training in the areas described in the Personnel Qualifications Attachment (2). These areas are highly specialized fields and personnel without actual experience in these areas are not acceptable. The proposal must indicate the specific personnel to be assigned to this effort and include personnel resume's, letter of intent and subcontractor agreements. Failure to submit resumes and letters of intent, as applicable, may result in an unacceptable rating.
- 2) Actual relevant experience in the technical and scientific areas set forth in SOW. The proposal should specify the amount of effort each person will be performing on this contract, both by the prime contractor, as well as, any proposed subcontractors.
- 3) The ability of all contractor personnel assigned to this contract to have a final favorable DoD adjudicated clearance commensurate with the level of access required for the performance of this contract prior to commencing work. Please note that all personnel assigned to this contract must also be US citizens. Further, the proposal will be evaluated on the availability of personnel.
- 4) Offeror's compensation plan.

Factor 2 - COMPANY EXPERIENCE: The proposal will be evaluated on the offeror's demonstrated company experience in performing projects with scientific and technical tasks similar in size, scope and complexity to those required in the SOW. The documentation should be sufficient to support both the prime and subcontractors' breadth and depth of experience as it relates to the SOW and should clearly demonstrate (1) the relationship between the company's experience and the tasks required and (2) prior or current programs in the task areas.

Factor 3 - MANAGEMENT ABILITY: The proposal will be evaluated on the offeror's demonstrated approach to implementing the contract including management ability and success in managing projects of similar complexity and duration as that set forth in the SOW.

- 1) The proposal will also be evaluated on the adequacy of the offeror's Contractor's Management Plan (CMP). The CMP provides the Government insight to the systems, processes, and structure within which the contractor operates. The CMP should include, as applicable: quality control, risk management, systems engineering, software development, configuration management and subcontract management.
- 2) The proposal will also be evaluated on the adequacy of the offeror's Transition Plan. The Transition Plan shall provided the strategy demonstrating a smooth and effective transition between the offeror's organization personnel and the incumbent contractor's personnel into the ongoing system development, maintenance, and operations efforts and ability to complete all the transition activities within the proposed transition period.

Factor 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).

Offeror’s past performance will be rated using the evaluation rating scales shown below:

Past Performance Relevancy Ratings	
Rating	Definition
Very Relevant	Present/past performance effort involved essentially the same scope and magnitude of effort and complexities this solicitation requires.
Relevant	Present/past performance effort involved similar scope and magnitude of effort and complexities this solicitation requires.
Somewhat Relevant	Present/past performance effort involved some of the scope and magnitude of effort and complexities this solicitation requires.
Not Relevant	Present/past performance effort involved little or none of the scope and magnitude of effort and complexities this solicitation requires.

Performance Confidence Assessments	
Rating	Definition
Substantial Confidence	Based on the offeror’s recent/relevant performance record, the Government has a high expectation that the offeror will successfully perform the required effort.
Satisfactory Confidence	Based on the offeror’s recent/relevant performance record, the Government has a reasonable expectation that the offeror will successfully perform the required effort.
Limited Confidence	Based on the offeror’s recent/relevant performance record, the Government has a low expectation that the offeror will successfully perform the required effort.
No Confidence	Based on the offeror’s recent/relevant performance record, the Government has no expectation that the offeror will be able to successfully perform the required effort.
Unknown Confidence (Neutral)	No recent/relevant performance record is available or the offeror’s performance record is so sparse that no meaningful confidence assessment rating can be reasonably assigned.

M-2-2 COST TO THE GOVERNMENT

Volume II of the proposal will be evaluated for cost realism, reasonableness, and completeness of the proposed contract Cost Plus Fixed Fee in accordance with FAR Part 15.404-1. Cost, while being an important factor, is not in and of itself the determining factor in the selection of successful offeror for award of the contract contemplated by this solicitation. The total evaluated amount of the proposed cost plus fixed fee will be used in determining best value.

(a) Realism. 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.

(b) Completeness. Price proposals shall be evaluated for completeness by assessing the responsiveness of the proposed price, by assessing the level of detail of the offeror-provided cost data for all requirements in the Performance Work Statement (PWS) and assessing the traceability of estimates. For the cost data to be complete, the offeror, or its subcontractors, must provide all the data necessary to support the offer. The amount of data needed may vary depending on the requirements.

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 (SOW)

Research and Development in EO and IR for Advanced Reconnaissance (ISR) and Electronic Warfare (EW) Prototypes for Navy/Marine Corps Tactical Aircraft

Version 1.0

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R & D in EO and IR for Advanced ISR and EW Systems for Navy/Marine Corps Tactical Aircraft

Vision Statement

Maintain world class leadership position in research, development, and exploitation of new and advanced optical technologies in solving Navy tactical aircraft self-protection and situation awareness problems.

1.0 Introduction

The Optical Sciences Division (NRL Code 5600) carries out a variety of research, development, and application-oriented activities in the generation propagation, detection, and use of radiation in the wavelength region between near-ultraviolet and far-infrared wavelengths. The research, both theoretical and experimental, is concerned with discovering and understanding the basic physical principles and mechanisms involved in optical devices, materials, and phenomena. Development efforts are aimed at extending this understanding in the direction of device engineering and advanced operational techniques.

1.1 Mission

The mission of this procurement is to acquire the expertise of highly skilled personnel equipment and facilities to support the Optical Sciences Division with a comprehensive, integrated program of systems engineering, technical engineering, engineering analysis, independent assessments, and research activities pertaining to the development, measurement, and evaluation of new and existing airborne systems and avionics. 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 use of visible, electro-optic, and infrared (VIS/EO/IR) sensors and systems.

1.2 Background

Previous activities have concerned conduct of basic research on development of new and advanced VIS/EO/IR component technologies required to improve the situation awareness and self-protection performance of Navy and Marine Corps aircraft, however, the activities described in Section 3, Performance Requirements, are intended to move the new/advanced technologies from Technology Readiness Level (TRL) 5: Component and/or breadboard validation in a relevant environment, level of maturity to TRL 6: System/subsystem model or prototype demonstration in a relevant environment, or TRL 7: System prototype demonstration in an operational environment, level of maturity.

Example programs previously supported include: (1) development of an initial performance specification, conduct of a series of live fire tests, and completion of an Operational Evaluation (OPEVAL) for adding a Hostile Fire Indication (HFI) capability to the AAR-47 Missile Warning System (MWS) used on a variety of Navy/USMC low/slow fliers (AH-1W/Z, UH-1N/X, CH-53D/E, HH/SH/UH-60, P-3, C-130, CH-46, V-22); (2) development, prototyping and conduct of

an Early Operational Assessment (EOA) of the Tactical Directed IRCM (TADIRCM) pod mounted (F/A-18) suite of wide field-of-view (FOV), passive, two-color, IR missile warning sensors, a computer processor (CP), and an active, all-band, IR jammer to demonstrate the suitability of these NRL developed technologies for providing improved self-protection capabilities in a tactical airborne (F/A-18) environment; and (3) development, flight-testing, and transitioning (to TRL-7 level of maturity) of the dual-band wide-area persistent surveillance sensor (DB-WAPSS) system which uses a 16.7-megapixel mid-wave infrared (MWIR) focal plane array (FPA) sensors to provide day/night IR surveillance coverage in addition to increased resolution performance at low altitudes in support of the USMC's Angel Fire program.

1.3 Scope

The purpose of this contract is to provide personnel to perform research, development, and test of improvements to EW and ISR systems such as AAR-47 Missile Warning System (MWS), AAQ-24 Directional IR Countermeasures (DIRCM), TADIRCM, and DoN Large Aircraft Countermeasures (LAIRCM) and Shared Reconnaissance Pod (SHARP), ANGEL Fire, and DB-WAPSS, respectively, and new VIS/EO/IR ISR systems for the Optical Sciences Division (NRL Code 5600) in the areas described below:

- Alternatives Analysis (AA) Assessment of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems
- VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems
- Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components
- Navy/DoDAF Acquisition Management and Program Support

Efforts in support of the tasks delineated in Section 3, Performance Requirements, below will be conducted in coordination with Principal Investigator (PI) led research team(s) that may include Government scientists and other Contractors. The quality and timeliness of the provider's contribution to the work will be evaluated in terms of its impact on the success of the overall project.

2.0 General Requirements

2.1 Period of Performance

See section F of the RFP.

2.2 Non-Personal Services

The Government will neither supervise contractor employees nor control the method by which the contractor performs the required tasks.

The Government will not assign tasks to, or prepare work schedules for, individual contractor employees.

The Contractor **shall** be responsible for managing its employees and guarding against any actions that are of the nature of personal services, or give the perception of personal services as defined in FAR-Part 37, Service Contracting, dated 31 May 2011.

The Contractor **shall** notify the Contracting Officer (KO) if any Government requested actions constitute, or are perceived to constitute personal services.

2.3 Business Relations

The contractor **shall** integrate and coordinate all activity needed to execute this contract.

2.4 Contract Administration and Management

The following subsections specify requirements for contract management and contractor personnel administration

2.4.1 Contract Management

The Contractor **shall** establish clear organizational lines of authority and responsibility to ensure effective management of the resources assigned to this contract.

The Contractor **shall** provide a Monthly Technical & Financial Status Report summarizing the expenditures and balances for each contract line item and/or contract option, sorted by ACRN, all contract actions and technical activities for each month, including brief statements of progress, problems, and plans for the next month in accordance with DI-MGMT-80368A, Contractor's Progress, Status, and Management report, on the schedule and in the format defined in Technical and Financial Status Report **[CDRL A001]**.

The Contractor **shall** report Contractor On-Site/Off-Site Labor Report total labor hours and other costs (including travel) billed to each assigned task for all Contractor (and subcontractor) personnel on the schedule and in the format defined in **[CDRL A002]**.

The Contractor **shall** deliver a Final Technical Report for all work accomplished under this SOW 90 days after the completion of the contract in accordance with DI-ADMIN-80447A, Contract Summary Report, as defined in **[CDRL A004]**.

2.4.2 Personnel Administration

The Contractor **shall** provide for employees during designated Government non-work days or other periods where Government offices are closed due to weather or security conditions.

The Contractor **shall** maintain the currency of their employees by providing initial and refresher training as required to meet the SOW requirements.

The Contractor **shall** make necessary travel arrangements for employees.

2.4.3 Contract Administration

The Contractor **shall** establish processes and assign appropriate resources to effectively administer this contract.

The Contractor **shall** respond to Government requests for contractual actions within five work days.

The Contractor **shall** assign work effort and maintain proper and accurate time keeping records of personnel assigned to work on this contract.

2.4.4 Contractor's Management Plan (CMP)

The CMP provides the Government insight to the systems, processes, and structure within which the contractor operates. The CMP should include, as applicable and if not defined in a separate plan: quality control, risk management, systems engineering, software development, configuration management, and subcontract management.

The contractor **shall** submit a Contractor's Management Plan (CMP) defining the contractor's approach to implementing the contract in accordance with DI-MGMT-80004A, Management Plan with submission of the offerors proposal.

2.5 Contractor Furnished Equipment, Materials, Subcontracts and Supplies

Equipment and unexpended materials and supplies purchased by the contractor under this contract become the property of the Government at the end of the performance period, including all options, or when the Government asserts ownership.

The Contractor **shall** provide supplies for contractor personnel.

The Contractor **shall** provide any other equipment, material, and supplies, not furnished by the Government, but required to perform the work defined under Paragraph 3, Performance Requirements, below.

The Contractor **shall** be responsible for any subcontract management necessary for performing efforts described in Paragraph 3, Technical Requirements, below.

2.6 Contractor Personnel, Disciplines, and Specialties

The minimum education, training, and experience required by contractor personnel to perform support tasks identified in this SOW are defined in the labor category descriptions provided as Attachment J-2, Personnel Qualifications.

2.7 Location and Hours of Work

Accomplishment of the results contained in this SOW requires work at the Naval Research Laboratory facilities, 4555 Overlook Ave, SW, Washington, DC 20375-5320. Normal workdays are Monday through Friday except US Federal Holidays. NRL workers typically work eight (8) hours per day, 40 hours per week. Flextime workers start not earlier than 0600 and not later than 0900. Core hours of work are from 0900 to 1500 daily. All employees are expected to be available during core hours. Additional information on work hours is provided in Section 1. (c), NRL HOURS OF OPERATION AND HOLIDAY SCHEDULE, in the NRL ROSC.

2.8 Travel / Temporary Duty (TDY)

Travel to other contractor or government facilities, such as, Naval Air Station (NAS) Patuxent River, MD, Naval Surface Warfare Center (NSWC), Dahlgren, VA, NAS Point Mugu, CA and NAS China Lake, CA, as well as other Government sites in pursuit of NRL objectives may be required for conduct of experimental research, attendance at government reviews, scientific meetings, and seminars. Additionally, testing of components and prototypes may occur at Government bases and test ranges including the White Sands Missile Range, NM, Aberdeen Proving Grounds, MD, Marine Corps Air Station Yuma, AZ, and NSWC Crane, IN.

The Contractor **shall** submit all travel requirements (including plans, agenda, itinerary and dates) for pre-approval to the Government and is on a strictly cost reimbursable basis.

The Contractor **shall** bill costs for travel in accordance with FAR 31.205-46 Travel Costs (subject to local policy & procedures).

3.0 Technical Requirements

Guidance on development of software and hardware technical data packages required to meet requirements of CDRLs A005 and A009 for documenting the design of systems resulting from activities conducted under sections 3.2 and 3.3 is dependent on the specific package, and will be provided as needed.

3.0.1 Technical Interchange Meetings (TIMs)

The Contractor **shall** prepare for, conduct, and document Technical Interchange Meetings in accordance with DI-ADMIN-81373, Presentation Material, and DI-ADMIN-81250A, Conference Minutes as required by the COR.

Deliverables

A006 TIM Review Packages

3.1 Alternatives Analysis (AA) of VIS/EO/IR Component Technology Capabilities for Improving EW and ISR Systems

The continuing development of VIS/EO/IR technology, as well as related technologies such as high speed and high capacity processing, provides system and prototype developers new opportunities for improvements in VIS/EO/IR systems. These new technologies can benefit various EW and ISR systems under development or deployed. The system benefits of using new VIS/EO/IR technology could be in performance, size, weight or required power, depending on the particular function of the system, or could be by providing new functions.

The purpose of this task is to definitize the characteristics of existing or developmental systems that are limited by the VIS/EO/IR technology in use and identify the technology areas that can lead to substantial system improvements. SECNAV M-5000.2, DoN Acquisition and Capabilities Guidebook, Chapter 5, Resource Estimation, embodies the Navy's current guidance for planning and executing an AA and was used as a guide for developing the tasks documented in this SOW. **3.1.1** The Contractor **shall** develop in coordination with NRL an Alternatives Analysis (AA) Study Plan for technology improvement of VIS/EO/IR components in tactical aircraft self-protection EW/ISR Systems.

Deliverables

A003 Technical Report - Alternatives Analysis

A007 Technical/Program Briefing Slides/Documentation

3.1.2 The Contractor **shall** conduct mission profile and Intelligence Agency threat document analyses for identifying threat environment relative to VIS/EO/IR image seekers.

Deliverables

A003 Technical Report - Studies

3.1.3 The Contractor **shall** characterize current VIS/EO/IR component limitations for tactical aircraft self-protection EW/ISR systems.

Purpose of this task is to determine the baseline measures of effectiveness (MOE) and measures of performance (MOP) for current tactical aircraft self-protection EW/ISR systems.

Deliverables

A003 Technical Report - Studies

3.1.4 Assess VIS/EO/IR Technology Improvement Alternatives

The purpose of this task is to evaluate the technology improvement alternatives in terms of the MOEs and MOPs determined in task 3.1.3.

3.1.4.1 The Contractor **shall** characterize alternative VIS/EO/IR technologies for improving tactical aircraft self-protection capabilities of EW/ISR systems.

Deliverables

A003 Technical Report - Studies

3.1.4.2 The Contractor shall characterize alternative non-VIS/EO/IR technologies for improving tactical aircraft self-protection capabilities of EW/ISR systems.

Deliverables

A003 Technical Report - Studies

3.1.5 Technology Improvement Risk Assessment Model

Guidance for developing a risk assessment methodology for DoD programs is provided in the OUSD (AT&L) Risk Management Guide for DoD Acquisition, Sixth edition, August 2006.

3.1.5.1 The Contractor **shall** develop a risk assessment methodology based on performance results obtained from threat based surrogate performance models and results from tasks 3.1.3 and 3.1.4 for evaluating selected technology improvement alternatives.

Deliverables

A003 Technical Report - Studies

3.1.5.2 The Contractor **shall** develop a software controlled risk assessment model based on the methodology determined in task 3.1.6 for evaluating VIS/EO/IR component technology improvement alternatives.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.1.6 The Contractor **shall** analyze and document Concept of Operations (CONOPS) modifications required for taking advantage of VIS/EO/IR alternative capabilities validated by prototype testing results of section 3.3.

Deliverables

A008 Test Plans/Procedures and Reports

3.1.7 The Contractor **shall** analyze and document maintenance program and logistics plan modifications required for taking advantage of VIS/EO/IR alternative capabilities validated by prototype testing results of section 3.3.

Deliverables

A008 Test Plans/Procedures and Reports

3.1.8 The Contractor **shall** develop life cycle cost and schedule estimates for viable alternative sensor improvement program(s) as directed by the COR.

Deliverables

A007 Acquisition Program Documents

3.2 VIS/EO/IR Component Technology Capabilities Verification/Validation for EW and ISR Systems

3.2.1 Laboratory Testing of Current and New VIS/EO/IR Components/Systems

3.2.1.1 The Contractor **shall** conduct and evaluate laboratory tests for characterizing current VIS/EO/IR system component MOEs and MOPs.

MOEs to be considered include size, weight, power usage, bandwidth, resolution, range, system noise, mean time between failure (MTBF), mean time to repair (MTTR), and cost. Primary MOPs against which the MOEs are to be evaluated include improvements to situation awareness (SA) and ground fire detection (GFD) capabilities. This task is intended to provide

Deliverables

A003 Technical Report(s)

3.2.1.2 The Contractor **shall** conduct and evaluate laboratory tests for characterizing new VIS/EO/IR system component MOEs and MOPs.

MOEs to be considered include size, weight, power usage, bandwidth, resolution, range, system noise, mean time between failure (MTBF), mean time to repair (MTTR), and schedule and cost to implement technology improvements. Primary MOPs against which the MOEs are to be evaluated include improvements to situation awareness (SA) and ground fire detection (GFD) capabilities. This task is intended to provide data for alternatives assessment tasks 3.1.4 and 3.1.5.

Deliverables

A003 Technical Report(s)

3.2.1.3 The Contractor **shall** perform additional laboratory testing and analysis for resolving deficiencies determined from task 3.2.1.3 when directed by the COR.

Deliverables

A003 Technical Report(s)

3.2.2 Characterize VIS/EO/IR Systems Vulnerabilities

3.2.2.1 The Contractor **shall** analyze, test, and evaluate foreign EO/IR/UV tactical threat systems capabilities for use in development of surrogate hardware/software models of subject threat systems.

This activity includes obtaining detailed threat systems operations by use of laboratory and field electro-optical measurements at contractor or government facilities; the use/set up of electro-optical instrumentation such as lasers, acousto-optic (AO) modulators, optics, radiometers, digital and analog electronics to collect the needed data.

Deliverables

A003 Technical Report - Surrogate Threat Systems Analysis

3.2.2.2 The Contractor **shall** develop data acquisition hardware and software for performing measurements required to perform task 3.2.2.1.

Measurements include response of foreign systems being exploited to current and developmental VIS/EO/IR systems countermeasures as well as the reaction of the VIS/EO/IR systems when targeted by the foreign systems.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code
A009 Technical Data - Hardware Technical Data Package

3.2.2.3 The Contractor **shall** develop hardware/software surrogate models based on the results of task 3.2.2.1 for evaluating current and developmental EW and ISR systems vulnerabilities to foreign threat EO/IR/UV systems.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code
A009 Technical Data - Hardware Technical Data Package

3.2.3 IR Countermeasures (IRCM) Optimization Model Verification/Validation

3.2.3.1 The Contractor **shall** validate IRCM optimization model predictions against results of tasks 3.2.1 and 3.2.2.

Deliverables

A003 Technical Report(s)

3.2.3.2 The Contractor **shall** develop and incorporate updates to IRCM optimization model for resolving selected model deficiencies determined from task 3.2.3.1 validation efforts.

Deliverables

A003 Technical Report – Studies

A005 Software Version Description Document

3.2.3.3 The Contractor **shall** develop and incorporate updates to IRCM optimization model for evaluating new VIS/EO/IR technologies resulting from task 3.2.4.1.

Deliverables

A003 Technical Report(s)

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.2.4 ISR Algorithm Improvement Research and Development

3.2.4.1 The Contractor **shall** conduct research and recommend improvements to SA and hostile GFD pilot notification capabilities for current, developing, and new EW and ISR self-protection systems.

Areas of investigation include the use of VIS/EO/IR data provided from fielded/proposed tactical aircraft EW and ISR self-protection systems as well as from collateral sensors.

Deliverables

A003 Technical Report(s)

3.2.4.2 The Contractor **shall** conduct research and develop VIS/EO/IR sensor real-time data processing algorithms for improving sensor analyst's exploitation of sensor data via a Graphical User Interface (GUI).

The purpose of the GUI is to facilitate target detection, identification, and tracking functions and is focused on handling real-time output of lower bandwidth information as well as ease of use and clarity of presentation to the sensor analyst.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.2.4.3 The Contractor **shall** conduct research and develop real-time still and video frame screening algorithms for image analyst's exploitation via a Graphical User Interface (GUI).

The purpose of the GUI is to facilitate target detection and identification functions and is focused on extraction of small data segments for rapid retransmission as well as ease of use and clarity of presentation to the image analyst.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3 Develop, Test and Evaluate Prototype VIS/EO/IR Systems/Components

3.3.1 The Contractor **shall** prepare detailed test plan(s) with schedule and cost projections for developing prototype VIS/EO/IR components as directed by the COR.

The COR will select alternatives for further development based on the results of and to support evaluation of viable alternatives identified by the Alternatives Analysis of task 3.1.

Deliverables

A003 Technical Report(s)

A008 Test Plans/Procedures and Reports

3.3.2 Design, Develop, and Demonstrate Prototype VIS/EO/IR Components in Laboratory Environment

Embedded EW and ISR systems may include radar, RF/EO/IR threat warning systems and jammers, and reconnaissance systems depending on the platform being evaluated.

3.3.2.1 The Contractor **shall** design digital components using VHDL, FPGA, ASIC, VLSI, VME, PCI, and Ethernet design criteria for hardware/firmware used in prototype VIS/EO/IR components/systems.

Deliverables

A009 Technical Data - Hardware Technical Data Package

3.3.2.2 The Contractor **shall** design, modify, and develop control software for integrating new components into prototype EW and ISR self-protection systems.

Embedded EW and ISR systems may include radar, RF/EO/IR threat warning systems and jammers, and reconnaissance systems depending on the platform being evaluated. Real-time software for embedded aerospace applications need to operate in the VxWorks operating system environment.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.2.3 The Contractor **shall** develop real-time target acquisition software and hardware for imaging seeker surrogate models.

Preferred software development language is C/C++ using Windows application development tools such as Borland C++, Borland Delphi, and Microsoft Visual C++.

Current and future models make extensive use of ISAM/D-ISAM data management architecture which is the preferred method to be used in all real-time data retrieval algorithms.

Deliverables

A009 Technical Data - Hardware Technical Data Package

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.2.4 The Contractor **shall** develop real-time tracker software and hardware for imaging seeker surrogate models.

Preferred software development language is C/C++ using Windows application development tools such as Borland C++, Borland Delphi, and Microsoft Visual C++.

Current and future models make extensive use of ISAM/D-ISAM data management architecture which is the preferred method to be used in all real-time data retrieval algorithms.

Deliverables

A009 Technical Data - Hardware Technical Data Package

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.2.5 The Contractor **shall** develop real-time scene injection software and hardware for imaging seeker surrogate models.

Preferred software development language is C/C++ using Windows application development tools such as Borland C++, Borland Delphi, and Microsoft Visual C++.

Current and future models make extensive use of ISAM/D-ISAM data management architecture which is the preferred method to be used in all real-time data retrieval algorithms.

Deliverables

A009 Technical Data - Hardware Technical Data Package

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.2.6 The Contractor **shall** develop enhanced SA, hostile GFD, and ground fire classification (GFC) software for prototype EW and ISR systems assigned.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.3 Data Analysis Software Development/Modification

3.3.3.1 The Contractor **shall** develop data analysis software for evaluating outputs from prototype VIS/EO/IR systems under test.

Preferred software development language is C/C++ using Windows application development tools such as Borland C++, Borland Delphi, and Microsoft Visual C++.

Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.3.3.2 The Contractor **shall** demonstrate in a laboratory environment, data analysis software's capability for performing data analysis of prototype systems response to threat system inputs.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.4 Field Test Preparation

Field test sites for which services may be required include the Yuma Test Range, AZ, White Sands Missile Range (WSMR), NM, Tonopah Test Range (TTR), NV, Naval Air Warfare Center - Weapons Division China Lake (NAWC/WD/CL), CA, Patuxent Naval Air Station (NAS), MD, and other domestic and foreign sites.

3.3.4.1 The Contractor **shall** assist in measuring tactical aircraft threat weapon systems, various terrain, and target (ground vehicles and building structures) background VIS/IR/UV signatures for completely characterizing the test environment.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.4.2 The Contractor **shall** test and verify proper operation of communications and data networking capabilities, GPS and IRIG time-tagging functions, and remote control functions for data acquisition computers prior to shipment to test sites.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.4.3 The Contractor **shall** store, assemble, calibrate, and align test instrumentation for shipment to appropriate test sites.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.5 Conduct Field Tests

3.3.5.1 The Contractor **shall** unpack, assemble, calibrate, and install test instrumentation for conduct of prototype tests at the appropriate test site.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.5.2 The Contractor **shall** install and checkout prototype VIS/EO/IR equipment for in vehicle test platform at the applicable test site.

Necessary test fixtures, special installation hardware, and test instrumentation residing on or in the test platform are included as part of the prototype system.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.5.3 The Contractor **shall** collect, analyze, and report test results for prototype VIS/EO/IR equipment.

ANSI/NISO Z39.18-2005, Scientific and Technical Reports - Preparation, Presentation, and Preservation provides guidance on the format and content criteria to be used in the preparation of test reports covering tests on systems, subsystems, equipment, components, and parts. Conformance with this standard is not required; however, the handbook has been approved for use by all agencies within the Department of Defense and will be used as a guide in reviewing test reports generated under this task.

Deliverables

A008 Test Plans/Procedures and Reports

3.3.6 The Contractor **shall** provide systems engineering analytical support for evaluating the design of embedded EW and ISR systems developed by other contractors or government entities.

Embedded EW and ISR systems may include radar, RF/EO/IR threat warning systems and jammers, and reconnaissance systems depending on the platform being evaluated. Systems engineering support includes evaluation of technical data packages, software items, interface design, and assessment of programs readiness for completing major program/project reviews (Systems Requirement Review (SRR) through Test Readiness Reviews (TRRs)).

Deliverables

A003 Technical Report(s)

A005 Software, Algorithms, Programs, documentation instructions and Source Code

A007 Other Data Deliverables

3.4 Navy/DoD Acquisition Program Support

3.4.1 The Contractor **shall** provide technical engineering support to assist NRL in preparing Acquisition Milestone B documents for transitioning programs from Technology Development (TD) to Engineering & Manufacturing Development (EMD) acquisition phase.

In addition to the documentation required by SECNAV M-5000.2, DoN Acquisition and Capabilities Guidebook, this task includes development of supporting information including budget submissions, briefings, threat studies/analyses, and engineering assessments. Specific documents with templates identified are listed as subtasks of this task.

Deliverables

A001 Technical & Financial Status Report

3.4.1.1 The Contractor **shall** assist in developing Test and Evaluation Master Plans (TEMP) for VIS/EO/IR technology programs assigned.

Guidance for the preparation of TEMP's is provided in the Director Operational Test & Evaluation (DOT&E) Test and Evaluation Plan (TEMP) Guidebook 2.0, 28 May 2013.

Deliverables

A007 Other Data Deliverables

3.4.1.2 The Contractor **shall** assist in developing Mission Needs Statements (MNS) for VIS/EO/IR technology programs assigned.

Best practices guidance for development of a MNS is provided in Department of Homeland Security (DHS) Manual 102-01-001, Acquisition Management Instruction Guidebook, Appendix C: Mission Needs Statement Template. The basic document as well as the template are available at the DHS Home location on the Defense Acquisition University (DAU) website.

Deliverables

A007 Other Data Deliverables

3.4.1.3 The Contractor **shall** assist in developing a Capability Development Document (CDD) for VIS/EO/IR technology programs assigned.

Guidance for development of a CDD is provided in Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS), Enclosure F. The Format for the CDD is provided in Appendix A to Enclosure F. The Capability Development Tracking and Management Tool (CDTM), a web-based tool used by authors and reviewers of capabilities documents (including the CDD) is hosted at the Non-secure Internet protocol Router Network (NIPRNET) or SECRET Internet Protocol Router Network (SIPRNET) websites, and can be used by anyone with access to those networks to develop and review CDDs.

Deliverables

A007 Other Data Deliverables

3.4.1.4 The Contractor **shall** assist in conducting a technology readiness assessment (TRA) for VIS/EO/IR technology programs assigned.

Guidance for conducting a TRA and requirements for a Milestone B decision is provided in the ASD(R&E) DoD Technology Readiness Level (TRL) Deskbook.

Deliverables

A003 Technical Report - Studies

3.4.2 Program Protection Planning and Assessment

3.4.2.1 The Contractor **shall** conduct a Critical Program Information (CPI) Identification and Criticality Analysis assessment for NRL VIS/EO/IR advanced technology programs/projects assigned.

Guidance on definition of CPI terms and conduct of a CPI Identification and Criticality Analysis is provided in the Defense Acquisition Guidebook Chapter 13.3, Mission-Critical Functions and Components.

Deliverables

A003 Technical Report - Studies

3.4.2.2 The Contractor **shall** conduct a technology readiness assessment (TRA) for Anti-Tamper (AT) technology suitable for use in NRL advanced development component technology programs assigned.

Guidance for conducting a TRA and Technology Readiness Level (TRL) definitions for all Milestone decisions are provided in the ASD(R&E) DoD Technology Readiness Assessment (TRA) Deskbook.

Deliverables

A003 Technical Report - Studies

3.4.2.3 The Contractor **shall** assist in developing an Anti-Tamper Plan for NRL advanced development component technology programs/projects assigned.

Includes providing AT engineering and technical support to NRL for identifying, managing, and protecting Critical Technology (CT) elements in accordance with DODI 5200.39, Critical Program Information (CPI) Protection. Efforts include development of the initial AT Plan prior to the program's Preliminary Design Review (PDR) and update of the final AT Plan prior to the program's Critical Design Review (CDR).

Deliverables

A007 Other Data Deliverables

3.4.2.4 The Contractor **shall** assist in developing an AT Verification and Validation Plan for NRL advanced development component technology programs/projects assigned.

Provide AT engineering and technical support to NRL for verification and validation testing of AT protection of Critical Technology (CT) elements in accordance with DODI 5200.39, Critical Program Information (CPI) Protection. Efforts include development, in coordination with the DoD AT Executive Agent (SAF/AQL) and NRL AT coordinator, of the initial AT V&V Plan and update of the final AT V&V Plan. AT V&V Plan templates are available from <https://www.at.dod.mil>.

Deliverables

A007 Other Data Deliverables

A005 Software, Algorithms, Programs, documentation instructions and Source Code

3.4.2.5 The Contractor **shall** conduct AT Verification and Validation Tests for NRL advanced development component technology programs/projects assigned.

Deliverables

A008 Test Plans/Procedures and Reports

3.4.2.6 The Contractor **shall** conduct AT Verification & Validation Reviews for NRL advanced development component technology programs/projects assigned.

Deliverables

A007 Other Data Deliverables

3.4.2.7 The Contractor **shall** assist in developing Security Classification Guides(s) for new advanced technology Anti-Tamper systems(s).

For existing systems this effort would entail only modifying the existing Security Classification Guide(s) to account for the insertion of new advanced technology AT system(s) into them. Navy guidance for development of Security Classification Guides is provided in DoDM 5200.45 Security Classification Guide, 2 April 2013, as further modified by OPNAVINST 5513.1F, Department of the Navy Security Classification Guide, 7 Dec 2005.

Deliverables

A007 Other Data Deliverables

3.4.2.8 The Contractor **shall** provide technical engineering support to secure National Security Agency (NSA) Information Assurance (IA) certification for NRL advanced development component technology systems assigned.

DoDD 8500.1A, Information Assurance, assigns the National Security Agency as the lead agency in implementing IA policy and establish criteria and processes for evaluating and validating all IA and IA-enabled IT products used in DoD mission information systems. Requires coordination with the NSA IA Directorate (VAO/17) to identify documentation and test certifications required to certify NRL developed IA-enabled products.

Deliverables

A007 Other Data Deliverables

3.4.3 The Contractor **shall** analyze the annual Future Years Defense Program (FYDP) Program Objectives Memorandum (POM) to determine EO/IR technology needs for manned/unmanned air, surface, and subsurface platforms.

Deliverables

A007 Other Data Deliverables

4.0 Special Requirements

This section describes the special requirements for this effort. The following sub-sections provide details of various considerations on this effort.

4.1 Security

All contractor personnel who require access to Secret material shall possess a final Secret clearance based on a favorably completed DoD investigation. Detailed security requirements for access to NRL unclassified information and systems will be delineated in the issued award DD 254 relevant to this contract. The contractor shall ensure that all classified material is handled in accordance with the issued DD 254, the National Security program Operating Manual (NISPOM) (DoD 5220.22M) and all NRL and applicable Security Program Guides/Directives.

All individuals working in performance of this contract must have secret clearances. Only personnel holding final Secret clearances will be permitted classified access; individuals holding only Interim Secret clearances may work only on unclassified aspects of research.

The Contractor **shall** comply with the requirements in the NRL INST 5510.40E, NRL Security Manual, with respect to management of all Contractor and Sub-contractor employees located at NRL.

The Contractor **shall** comply with DOD 5220.22-M, National Industrial Security Program Manual, with respect to management of all classified material provided to the Contractor and maintained at the Contractor's facility.

4.1.1 DD Forms 254

The Contractor shall be granted access to classified information necessary for performance of this contract upon contract award as specified in the basic DD Form 254. All contractor personnel with access to unclassified information systems, including e-mail, require at a minimum a favorable National Agency Check (NAC).

4.1.2 Identification (ID) Badges and Vehicle Passes

The Government will issue ID badges and vehicle passes to Contractor personnel working at NRL in accordance with the requirements of Paragraph 1(b) BADGES AND VEHICLE PASSES of the NRL ROSC. A favorable trustworthiness determination is required in order for nominated contractor personnel to be granted access to NRL facilities and issued an NRL badge. NRL issued Contractor badges will be worn and readily visible at all times while contractor personnel are on NRL facilities.

The Contractor **shall** provide all requested information required to facilitate the use and possession of badges and vehicle passes.

The Contractor **shall** ensure the immediately return all ID badges issued to Contractor employees under any of the following conditions completion of contract, relocation or termination of an employee, or upon request of the Contracting Officer or Contracting Officer's Representative.

4.2 Safety

The contractor **shall** meet the safety requirements in NRL INST 5100.13C, Occupational Safety and Health Manual, with respect to all Contractor and Sub-contractor personnel located at NRL.

4.3 Transition

The Contractor **shall** follow the transition plan submitted as part of the Contractor's Management Plan and keep the Government fully informed of status throughout the transition period.

4.4 Government Furnished Materials

4.4.1 The Contractor **shall** perform this effort at the U.S. Naval Research Laboratory, Washington D.C. government furnished facilities.

5.0 Deliverables

The contractor **shall** provide deliverables with the schedule and format as indicated in section 3.0 and DD 1423s for this contract and outlined in the CDRL's listed below.

Identifier	Name	Description
A001	Technical & Financial Status Report	IAW DI-MGMT-80368A monthly technical and cost status report.
A002	Contractor On-Site/Off-Site Man-Hours Report	Monthly labor hours report.
A003	Technical Reports	IAW DI-MISC-80508B
A004	Final Technical Report	IAW DI-ADMIN-80477A task order completion or contract summary technical reports.
A005	Software, Algorithms, Programs, documentation instructions and Source Code	Software data packages including Software Requirements Documents (SRS), Version Description Documents (VDD), and supporting documentation.
A006	Technical Interchange Meetings	IAW DI-ADMIN-81373 and DI-ADMIN-81250A provides presentation materials and results of TIMs
A007	Other Data Deliverables	Provides for data not already covered by other CDRLs including draft Acquisition Program Documentation
A008	Test Plans/Procedures and Reports	IAW DI-MGMT-80688
A009	Hardware Technical Data Package	Specific content will depend on the component, and may include applicable technical data such as operator's manual, maintenance manual, interface control document, models, drawings, associated lists, specifications, standards, patterns, performance requirements, quality

assurance provisions, software
documentation and packaging
details as indicated by the COR.

6.0 Related Documents

The following Documents are related to this project and are to be referenced as providing guidance only.

Short Title	Document Name	Contents
ANSI/NISO Z39.18-2005	Scientific and Technical Reports - Preparation, Presentation, and Preservation	This Standard outlines the elements, organization, and design of scientific and technical reports, including guidance for uniform presentation of front and back matter, text, and visual and tabular matter in print and digital formats, as well as recommendations for multimedia reports.
DHS Manual 102-01-001	Acquisition Management Instruction Guidebook,	Provides criteria and template for Mission Need Statement
DI-ADMIN-80447A	Contract Summary Report	Summarizes technical results resulting from completion of each task order or completion of the contract.
DI-ADMIN-81373	Presentation Materials	Data item description for presentation materials for technical reviews or technical interchange meetings.
DI-ADMIN-81250A	Conference Minutes	Data Item Description for documenting results of technical reviews and technical interchange meetings.
DI-MGMT-80004A	Management Plan	Data Item Description for a Contract Management Plan.
DI-MGMT-80368A	Contractor's Progress, Status and Management Report	Data Item Description for Monthly Status Report.
DI-MGMT-80688	Engineering Design Test Plan	Data Item Description for a Test Plan.
DI-MISC-80508A	Technical Report - Studies	Data Item Description for Technical Reports
DI-MISC-80711	Developmental Design Drawings/Models and Associated Lists	Data Item Description for hardware technical data package
DOD 5220.22-M	National Industrial Security Program Manual	Provides information on managing classified program documentation

Short Title	Document Name	Contents
DODD 8500.1A	Information Assurance	Establishes policy and assigns responsibilities to achieve DoD Information Assurance.
DODI 5200.39	Critical Program Information (CPI) Protection Within Department of Defense, 16 July 2008	Provides policies and procedures for managing program requiring implementation of Program Protection Plans
DoDM 5200.45	Security Classification Guide, 2 April 2013	Provides policies and procedures for managing development of Security Classification guides for DoD systems.
NRL INST 5100.13C	NRL Occupational Safety and Health Manual	Provides safety and health requirements for contractors working at NRL.
NRL INST 5510.40E	NRL Security Manual	Provide basic security requirements for contractors working at NRL,
OPNAVINST 5513.1F	Department of the Navy Security Classification Guide, 7 Dec 2005	Establishes procedures for developing and issuing Security Classification Guides for Navy programs. Provides policy and template example.
SECNAV M-5000.2	DoN Acquisition and Capabilities Guidebook	Provides basic Department of the Navy acquisition program management procedures and documentation.
	ASD(R&E) DoD Technology Readiness Level (TRL) Deskbook	Provides criteria for meeting Milestone B and C criteria as well as procedures for conducting a TRL assessment.
	Defense Acquisition Guidebook (DAG) ANNEX: Test and Evaluation Master Plan.	Provides criteria and template for developing a TEMP
	OUSD (AT&L) Risk Management Guide for DoD Acquisition, Sixth edition, August 2006	Provides guidance on developing Risk Management Plans.

7.0 Definitions and Acronyms

7.1 Definitions

Term	Meaning
Validation	The process of evaluating software/hardware to determine whether the systems and subsystems satisfy the conditions imposed by the government or research sponsor i.e. does it perform as required in its operational environment.
Verification	The process of evaluating software/hardware to determine whether it satisfies the specified requirements i.e. was it built correctly.
Real-Time	Relating to a data-processing system in which a computer receives constantly changing data and processes it sufficiently rapidly to be able to control the source of the data.

7.2 Acronyms

Term	Meaning
AA	Alternatives Analysis
AO	Acousto-optic
AoA	Analysis of Alternatives
ASD	Assistant Secretary of Defense
AT	Anti-Tamper
AT&L	Acquisition, Technology and Logistics
CDD	Capability Development Document
CMP	Contractor's Management Plan
CONOPS	Concept of Operations
COR	Contracting Officer's Representative
CP	Computer Processor
CPI	Critical Program Information
CT	Critical Technology
DAG	Defense Acquisition Guidebook
DB-WAPSS	Dual-Band Wide-Area Persistent Surveillance Sensor
DHS	Department of Homeland Security
DIA	Defense Intelligence Agency
DIRCM	Directional Infrared Countermeasures
DODAF	Department of Defense Acquisition Framework
DoN	Department of the Navy

Term	Meaning
EMD	Engineering and Manufacturing Development
EO	Electro-optical
EW	Electronic Warfare
FPA	Focal Plane Array
FYDP	Future Years Defense Program
GFC	Gun Fire Classification
GFD	Gun Fire Detection
GUI	Graphical User Interface
HFI	Hostile Fire Indication
IA	Information Assurance
IR	Infrared
IRCM	IR Countermeasures
ISAM	Index Sequential Access Method
ISR	Intelligence, Surveillance, and Reconnaissance
JCIDS	Joint Capabilities Integration Development System
KO	Contracting Officer
LAIRCM	Large Aircraft Countermeasures
MNS	Mission Needs Statements
MOE	Measures of Effectiveness
MOP	Measures of Performance
MPR	Monthly Progress Report
MTBF	Mean-Time-Between-Failure
MTTR	Mean-Time-To-Repair
MWIR	Mid-wave Infrared
MWS	Missile Warning
NAS	Naval Air Station
NAWC	Naval Air Weapons Center
NRL	Naval Research Laboratory
NRLINST	Naval Research Laboratory Instruction
NSA	National Security Agency
OCI	Organizational Conflict of Interest
OPEVAL	Operational Evaluation
OPNAVINST	Chief of Naval Operations Instruction
OUSD	Office of the Under-Secretary of Defense
POM	Program Objectives Memorandum
PPP	Program Protection Plan
PWS	Performance Work Specification
R&E	Research and Evaluation
RDT&E	Research, Development, Test, and Evaluation

Term	Meaning
RF	Radio Frequency
RFP	Request for Proposal
ROSC	Requirements for On-Site Contractors
SA	Situation Awareness
SECNAV	Secretary of the Navy
SHARP	Shared Reconnaissance Pod
SRR	Systems Requirement Review
TADIRCM	Tactical Directed Infrared Countermeasures
TD	Technology Development
TEMP	Test and Evaluation Plan
TRA	Technology Readiness Assessment
TRL	Technology Readiness Level
TRR	Test Readiness Review
VDD	Version Description Document
VIS	Visual

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

A. CONTRACT LINE ITEM NO. 0007	B. EXHIBIT A	C. CATEGORY: TDP <input checked="" type="checkbox"/> TM <input type="checkbox"/> OTHER <input type="checkbox"/>
D. SYSTEM/ITEM	E. CONTRACT/PR NO. 56-9632-14	F. CONTRACTOR *To be provided at time of award

16. REMARKS *(Continued)*

For Task 3.4. Acquisition Planning Documentation. The contractor shall provide copies of all the planning documents, including budget submissions, briefings, threat studies and analysis, engineering assessments, drafts of T&E Master Plans (TEMP), Mission Need Statement (MNS), Operational Capabilities Document, Acquisition Strategy and Plans, T&E Master plans, risk mitigation plans, and the documentation necessary to verify the Technology Readiness Level of the system. The contractor shall provide design drawings for all hardware units and sub-assemblies, source code for all embedded software, user manuals for all simulations developed, and comprehensive reports on all analyses, describing the analytical methodology, the results and conclusions. The contractor shall deliver reports as appropriate on the analyses, tests, and measurements done to support the development of the system designs.

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 the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0007				B. EXHIBIT A		C. CATEGORY: TDP <input checked="" type="checkbox"/> TM _____ OTHER _____				
D. SYSTEM/ITEM				E. CONTRACT/PR NO. 56-9642-13		F. CONTRACTOR * To be provided at time of award				
1. DATA ITEM NO. A004		2. TITLE OF DATA ITEM Final Technical Report				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-ADMIN-80477A				5. CONTRACT REFERENCE SOW Section 3 & 5		6. REQUIRING OFFICE *				
7. DD 250 REQ. LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY ONE/R		12. DATE OF FIRST SUBMISSION SEE BLK 16				
8. APP CODE		11. AS OF DATE SEE BLK 16		13. DATE OF SUBSEQUENT SUBMISSION QTRLY		14. DISTRIBUTION				
						a. ADDRESSEE		b. COPIES		
								Draft	Final	
16. REMARKS The Contractor shall provide a Final Report defined as a scientific or technical report which concisely and comprehensively summarize the technical and scientific objectives, findings and recommendations for all work accomplished under the contract. The report shall be in the Contractors format as approved by the COR. The report shall be delivered within 90 days after task order completion.						*		1		
						15. TOTAL →		0	1	0
1. DATA ITEM NO. A005		2. TITLE OF DATA ITEM Software, Algorithms, Programs, documentation instructions and Source Code				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE SOW Section 3		6. REQUIRING OFFICE * To be provided at time of award				
7. DD 250 REQ. LT		9. DIST STATEMENT REQUIRED		10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION ASREQ				
8. APP CODE		11. AS OF DATE ASREQ		13. DATE OF SUBSEQUENT SUBMISSION ASREQ		14. DISTRIBUTION				
						a. ADDRESSEE		b. COPIES		
								Draft	Final	
16. REMARKS The contractor shall provide to the COR copies of all software and data developed under this contract. In particular, the Contractor shall provide documentation, as required, to facilitate the efficient use of the research and development required by the Statement of Work. The Contractor shall provide numerical data in a form that can be read by programs written in FORTRAN, C, C++, MatLab and IDL. Upon request, other data shall be in a computer readable form. The Contractor shall ensure that all software and data delivered have no proprietary markings. Shall be in a accordance with Version Description Document (VDD), see Section J of the contract.						*		1		
						15. TOTAL →		0	1	0
G. PREPARED BY Code 3235				H. DATE		I. APPROVED BY		J. DATE		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 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 the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0007	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
--	------------------------	---

D. SYSTEM/ITEM ISR and EW Prototype Systems	E. CONTRACT/PR NO. 56-9642-13	F. CONTRACTOR To be provided at time of award
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1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM Technical Interchange Meetings Review Packages (TIM)	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-ADMIN-81373; DI-ADMIN-81250A	5. CONTRACT REFERENCE SOW Section 3	6. REQUIRING OFFICE *
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D. Critical Technology	10. FREQUENCY See Blk 16	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE See Blk 16	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16	a. ADDRESSEE		b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS Preliminary and Critical Design Reviews (PDRs & CDRs) SHALL be considered as special cases of TIMs; the Contractor shall provide an electronic Design Package for review 3 days prior to the start of every Scheduled Design Review. Design Packages shall include action items developed at each TIM, including identified action official and due date for completion of action. The Contractor shall provide an electronic Preliminary Design Package for review and approval 2 weeks prior to the Scheduled Preliminary Design Review (PDR). The Contractor shall provide an electronic Critical Design Package for review and approval 2 weeks prior to the Scheduled Critical Design Review (CDR). Design Review packages shall be in the Contractor's format as approved by the COR. The COR shall have 5 working days from the date of receipt of the PDR/CDR packages to provide approval.	NRL-DC, 5663		3	
15. TOTAL → 0 3 0				

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM OTHER DATA DELIVERABLES	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW Section 3 & 5	6. REQUIRING OFFICE *
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE ASREQ	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
					Draft	Final
					Reg	Repro

16. REMARKS The Contractor shall provide the COR upon request any documentation generated by the Contractor and/or its subcontractors to include but not limited to notebooks, reports, memoranda, presentation materials, technical papers, software simulations, and analytical models that are is not otherwise specified under any of the other contract data deliverables.	NRL-DC, 5663		1	
15. TOTAL → 0 1 0				

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Code 3235	H. DATE	I. APPROVED BY	J. DATE
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PERSONNEL QUALIFICATIONS FOR

Research and Development in EO and IR for Advanced Reconnaissance (ISR) and Electronic Warfare (EW) Prototypes for Navy/Marine Corps Tactical Aircraft

Version 1.0

The following paragraphs set forth the Government's minimum desired requirements deemed necessary to perform the tasks set forth in the Statement of Work (SOW). The Contractor should be capable of providing the personnel according to level-of-effort requirements in the following labor categories and with the experience indicated. Those personnel designated, as "key" should be available for work efforts on the first day after contract award. Furthermore, key personnel should possess the indicated clearance at the time of contract award and are subject to the provisions listed in Section H – ONR 5252.237-9705 - Key Personnel clause of the solicitation. All proposed personnel shall be available with favorably adjudicated investigations and final DoD granted personnel security clearances required for the performance of the contract.

A. Program Manager: (KEY)

Individuals should have at least 15 years experience in EO/IR systems for ISR and EW, including development and management of the technical aspects of Government projects, specifically advanced research projects with the Office of Naval Research (ONR), the Naval Research Laboratory (NRL) or other governmental research agency, as well as 15 years experience in planning, managing, and supervising the development and acquisition of one-of-a-kind prototype systems for use in a laboratory environment. Demonstrated experience in the following areas: Interface with the Contracting Officer and the Contracting Officer's Representative to ensure satisfactory services are provided on schedule and within cost; Demonstrated knowledge of the Navy or other government agency R&D process related to the development of technology in Basic Research, Applied Research, Advanced Concept Technology Demonstrations, Joint Capability Technology Demonstrations, and Future Naval Capabilities.

Education/Qualifications: Individuals must have a BS in Engineering, Physics or Engineering Management. In addition to the 15 years experience, individuals must have one of the following: 1) a Master of Science in Business, Engineering, Physics or Engineering Management, or 2) a BS with an additional 5 years experience supporting the Naval Research Laboratory or Office of Naval Research projects.

B. Senior Research Engineer (KEY)

Individuals should have at least 15 years experience in providing engineering and technical support to research, development, test and evaluation of advanced development programs, including EO/IR/RF programs in real time reconnaissance and electronic warfare. Individuals should also have at least 5 years experience in use of Electronic Combat or Avionics systems aboard support aircraft or have substantial technical, engineering, and management experience for DOD research programs. Individuals must also have direct experience in planning, coordinating and conducting technical and engineering measurement evaluations for advanced

technology EO/IR/RF systems or advanced development reconnaissance systems. Experience in DIRCM, or SWIR, MWIR and LWIR imaging technology is highly desired.

Education/Qualifications: Individuals must have one of the following: 1) a MS in Engineering, or 2) a BS in science or engineering with an additional 5 years of EO/IR, acquisition, or development and/or operational test of weapons systems, or 3) a BA with an additional 5 years of EO/IR, acquisition, or development and/or operational test of weapons systems.

C. Senior Research Scientist (Key)

Individuals should have at least 20 years experience in scientific and technical research, development, test and evaluation of advanced EW threats or countermeasure development programs, including EO/IR/RF programs in electronic warfare, hyperspectral imagers or real time spectral imaging for reconnaissance. Individuals should also have demonstrated technical, scientific, and management experience with ONR, NRL or other similar government agency programs, including experience in the milestone review process, configuration control, contract management, and budgetary and financial planning documents for research projects. Individuals must also have direct experience in planning, coordinating and conducting technical and engineering measurement evaluations for advanced technology EO/IR/RF systems as well as advanced development EW or ISR systems.

Education/Qualifications: Individuals must have one of the following: 1) a PhD in Science or Engineering, or 2) a MS in science or engineering with an additional 5 years of EO/IR/RF, research or development and test of weapons systems under development at NRL or other government agency.

D. Senior Research Test Engineer (Key):

Individuals should have at least 15 years experience providing analytic and technical support to research, development, test and evaluation for advanced development programs. Individuals must have demonstrated experience in planning, coordinating, and directing test, measurement and evaluation programs. Individuals must have experience writing test plans and collecting and reducing the final data report on test results. Individuals must have test experience with either rotary or fixed wing aircraft EW self protection systems that include missile detection, warning and countermeasure systems such as TADIRCM, DoN LAIRCM, JATAS or other similar systems. Experience directing developmental or operational testing is highly desirable. Working knowledge in the theory of Design of Experiments and experience working with simulators are also highly desirable.

Education/Qualifications: Individuals must have one of the following: 1) BS in Science or Engineering, or 2) Equivalent military experience; and must also possess demonstrated experience with test logistics and data collection and first-look interpretation.

E. Research Test Engineer:

Individuals should have at least 10 years experience providing analytic and technical support to research, development, test and evaluation for advanced development programs. Individuals must have demonstrated experience in planning, coordinating, and directing test, measurement and evaluation programs. Experience directing developmental or operational testing is highly desirable. Individuals must have test experience with either rotary or fixed wing aircraft EW self protection systems that include missile detection, warning and countermeasure systems such as TADIRCM, DoN LAIRCM, JATAS or other similar systems. Working knowledge in the theory of Design of Experiments and experience working with simulators are also highly desirable.

Education/Qualifications: Individuals must have one of the following: 1) BS in Science or Engineering, or 2) Equivalent military experience; and must also possess demonstrated experience with test logistics and data collection and first-look interpretation.

F. Research Engineer/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 should have at least 5 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 demonstrated 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 demonstrated expertise in EO/IR advanced systems research, development and testing, operations of a simulation facilities and managing major avionics system programs.

Education/Qualifications: Individuals must have one of the following: 1) a MS in science or engineering, or 2) a BS with an additional 5 years of EO/IR job related experience. NOTE: a PhD with 2 years laboratory experience in an academic research environment will fully satisfy the education and experience requirements.

G. Junior Research Engineer/Scientist:

Individuals must have at least 1 year of laboratory environment experience in providing scientific research or engineering and technical support to advanced technology research, development, test, and evaluation programs for real time avionics systems. In addition, individuals should have experience supporting the research, development, measurement, integration and evaluation of either reconnaissance or electronic combat systems for Naval Research Laboratory or other government research and development projects. Individuals must also have demonstrated experience in planning, scheduling, coordinating and conducting measurement and evaluation programs and perform measurements to characterize sensors (array

persistence, MTF, spectral response), develop software to read data from cameras and perform modeling and numerical analysis tasks. Individuals must have expertise in EO/IR/RF advanced systems research, development and testing, operations of a simulation facilities. Individuals must be familiar with the standard computer operating systems, languages and applications in use within NRL or other government research and development agency. Experience with UAV Detect, Fizeau spectrometer or RF/SW SWIRMS is highly desired.

Education/Qualifications: Individuals must have a BS in science or engineering.

H. 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 demonstrated 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 Electronic Combat and avionics systems into tactical or support aircraft such as the F/A-18, KC-130, MH-53, MH-60 or V-22 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 current and developmental systems to counter these threats.

Education/Qualifications: Individuals must have one of the following: 1) a MS in Engineering or Science, or 2) a BS in science or engineering with 3 years of EO/IR job related experience, or 3) a BA with 5 years of EO/IR job related experience.

I. Research Analyst:

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 demonstrated 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 or systems developmental or operational test and evaluation programs. Individuals must have experience providing research, engineering, management, and test support to rotary wing or fixed wing programs, collection and processing of electro-optical, infrared, and hyperspectral imagery, image processing and testing of target detection algorithms.

Education/Qualifications: Individuals must have one of the following: 1) a BS in science or engineering, or 2) a BA with 2 years of EO/IR job related experience.

J. Junior Research Analyst:

This is an entry level position providing analytic and technical support to research, development, test and evaluation for advanced development programs. Individuals must have demonstrated experience in planning, development, coordination and directing major test, evaluation, and measurement programs. Individuals must also have an academic background in planning, coordinating and execution of systems engineering test and evaluation programs.

Education/Qualifications: Individuals must have: 1) a BS in science or engineering, or 2) an Associate degree in science or engineering with an additional 3 years of EO/IR job related experience.

K. Lead Hardware Design Engineer:

Individuals should have at least 5 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 should also have demonstrated 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/LSI, 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 should 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 should 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.

Education/Qualifications: Individuals must have one of the following: 1) a MS in Engineering or Science, or 2) a BS in science or engineering with 3 years of EO/IR job related experience, or 3) a BA with 5 years of EO/IR job related experience.

L. Senior Software Engineer/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 should have demonstrated 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 should have demonstrated 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. 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), and Networking (hardware and software) is desired. Individual should have familiarity with NRL or other government agency projects such as the Advanced Seeker Test Bed (ASTB), hardware in the loop test systems, image processing, hardware control systems, real-time telemetry data systems or data control systems. Individuals should have experience in computer networking technology and software systems design based on advanced mathematical and physical science formulas. Individuals should also have experience in configuration management, data reduction and analysis and cockpit flight-testing.

Education/Qualifications: Individuals must have one of the following: 1) a MS in Engineering or Science, or 2) a BS in science or engineering with an additional 5 years of EO/IR/RF job related experience, or 3) a BA with an additional 10 years of EO/IR/RF job related experience.

M. Software Engineer/Scientist:

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 should have demonstrated experience in software development, checkout, integration and test for EO/IR systems and devices. Individuals should have experience in firmware development, checkout, and test and integration for video subsystems. Individual must have experience with support for NRL or other government agency projects such as IRCM Simulation/Studies, maintenance of high performance computer clusters for 24/7 simulation tasks. Individual should have familiarity with NRL or government agency projects such as the Advanced Seeker Test Bed (ASTB), hardware in the loop test systems, image processing, hardware control systems, real-time telemetry data systems or data control systems. Individuals should also have experience in software development using C, C++ in multiple processor hardware platforms environments.

Education/Qualifications: Individuals must have one of the following: 1) a MS in Engineering or Science, or 2) a BS in science or engineering with an additional 3 years of EO/IR/RF job related experience, or 3) a BA with an additional 5 years of EO/IR job related experience.

N. Senior Systems Analyst:

Individuals should have at least 15 years experience in research, engineering and technical support for advanced development programs in EO/IR Systems, or aircraft and system test, measurement, and evaluation. Individuals should have demonstrated 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 should 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), Initial Capabilities Documents (ICD), Capabilities Development Documents (CDD), Capabilities Production Documents (CPD).

Education/Qualifications: Individuals must have one of the following: 1) a MS in a physical science or technical management, or 2) a BS in a physical science or technical management with an additional 5 years of job related experience.

O. Senior Cyber Warfare/Information Assurance Specialist.

Individuals should have at least 10 years experience providing technical support as follows: Shall serve as a Lead Information Technology Specialist (Systems Analysis) per Office of Personnel Management (OPM) Handbook of Occupational Groups and Families. The proposed individual should possess the ability to 1. Identify disagreements between as built specifications, security requirements and DITSCAP/DIACAP security policies and recommend approaches to bring the system into compliance, 2. Author and revise system requirements and specifications to meet DITSCAP/DIACAP security policies, 3. Perform risk assessments against known vulnerabilities based upon security approaches and known hacker techniques and exploits, 4. Identify connectivity relationships between Naval Systems SIPR and NIPR and the equipment to which it interfaces, both physically and virtually, 5. Define an Information Assurance Vulnerability Management (IAVM) Plan, 6. Plan and execute security tests, 7. Communicate clearly and succinctly in written and oral presentations, 8. Substantial knowledge in the following areas will be required in the execution of this task: a) DoD IA policy and directives, b) IA assessment methodologies, c) DIACAP policy and directives, d) network engineering, e) project assessment and management, f) Internet Protocol (IP) switching and routing, g) network protocols, h) wireless security, i) automated IA assessment tools, and j) vulnerability assessment tools.

Education/Qualifications: Individual must have education commensurate with the position analyzing Navy/Joint warfare systems for compliance with specifications, requirements and policies. Individuals should possess the following information systems security certifications: Certified Information Systems Security Professional (CISSP), Certified Information Security Manager (CISM).

P. Cyber Warfare/ Information Assurance Specialist

Individuals should have at least 5 years experience providing technical support as follows: Shall serve as an Information Technology Specialist (Systems Analysis) per Office of Personnel Management (OPM) Handbook of Occupational Groups and Families. The proposed individual should possess the ability to: 1) identify conflicts between as built specifications, security requirements and DITSCAP/ DIACAP security policies and identify approaches to bring the system into compliance, 2) perform risk assessments against known vulnerabilities based upon security approaches and known hacker techniques and exploits, 3) identify relationships between Naval Systems SIPR and NIPR and the equipment to which they interface, 4) plan and execute

security tests, and 5) communicate clearly and succinctly in written and oral presentations.

Substantial knowledge in the following areas will be required in the execution of this task: a) DoD IA directives, b) IA Assessment Methodologies, c) DIACAP directives, d) Network Engineering, e) Internet Protocol (IP) switching and routing, f) Network Protocols, g) Wireless Security, h) Automated IA assessment tools, and i) vulnerability assessment tools.

Education/Qualifications: individuals must have education commensurate with the position analyzing Navy/Joint warfare systems for compliance with specifications, requirements and policies. Individuals should possess the following information systems security certifications: Certified Information Systems Security Professional (CISSP), Certified Information Security Manager (CISM).

Version Description Document Guide

1. General instructions.

a. Documentation: The Version Description Document (VDD) and all other documentation to be provided for use in hardcopy form will be provided in Microsoft Word format, and will be provided in both hardcopy and on soft media, preferably CD.

b. Machine readable data: Data used internally by computer (e.g., software, files, database, etc.) will be provided in a form capable of being loaded and used.

c. Title page or identifier. The VDD shall include a title page containing, as applicable: security markings or other restrictions on the handling of the document; date; document title; name, abbreviation, and any other identifier for the system, subsystem, or item to which the document applies; name and address of the preparing organization; and distribution statement.

d. Table of contents. The document shall contain a table of contents providing the number, title, and page number of each titled paragraph, figure, table, and appendix.

e. Page numbering and labeling. Each page shall contain a unique page number and display the version and date as applicable.

f. Response to tailoring instructions. If a paragraph is tailored out, the document shall contain the corresponding paragraph number and title, followed by "This paragraph has been tailored out."

g. Multiple paragraphs and subparagraphs. Any section, paragraph, or subparagraph may be written as multiple paragraphs or subparagraphs to enhance readability.

h. Standard data descriptions. If a required data description has been published in a DoD or commercial standard data element dictionary, reference to an entry in that dictionary is preferred over including the description itself.

2. Content requirements. Content requirements begin on the following page. The numbers shown designate the paragraph numbers to be used in the VDD.

1. Scope. Divide this section into the following paragraphs.

1.1 Identification. This paragraph shall contain the project ID, release precedence, release number, and a full identification of the system and the software, including, as applicable, identification number(s), title(s), abbreviation(s), and version number(s). It shall also identify the intended recipients of the VDD.

1.2 System overview. This paragraph shall provide a brief system overview. It shall describe the general nature of the system, identify current and planned operating sites, and list other relevant documents.

2. Referenced documents. This section shall list the number, title, revision, and date of all documents referenced in this document. This section shall also identify the source for those documents not available through normal Government channels.

3. Version description. Divide this section into the following paragraphs.

3.1 Inventory of materials released. This paragraph shall list, by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all physical media (for example, listings, tapes, disks) and associated documentation that make up the software version being released. It shall include applicable security and privacy considerations for these items, safeguards for handling them, such as concerns for static and magnetic fields, and instructions and restrictions regarding duplication and license provisions.

3.2 Inventory of software contents. This paragraph shall list, by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all computer files that make up the software version being released. Any applicable security and privacy considerations shall be included.

3.3 Changes installed. This paragraph shall provide a brief overall summary of the changes incorporated into this release. This paragraph shall identify, as applicable, Discrepancy Reports (DRs), System Advisory Notices (SANs), and Heads Up Messages (HUMs) cleared by the release, any modifications and enhancements incorporated, and the effects, if any, of each change on the end user, system operation and on interfaces with other hardware and software as applicable. This paragraph does not normally apply to the initial release of the software for a system.

3.4 Adaptation data. This paragraph shall identify or reference all unique-to-site data contained in the software version. For software versions after the first, this paragraph shall describe changes made to the adaptation data.

3.5 Related documents. This paragraph shall list by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers, as applicable, all documents pertinent to the software version being released but not included in the release.

3.6 Installation instructions. This paragraph shall provide or reference the following information, as applicable:

- a. Instructions for installing the release
- b. Identification of other changes that have to be installed for this version to be used, including site-unique adaptation data not included in the software version
- c. Security, privacy, or safety precautions relevant to the installation
- d. Procedures for determining whether the version has been installed properly
- e. A point of contact to be consulted if there are problems or questions with the installation

3.7 Possible problems and known errors. This paragraph shall identify any possible problems or known errors with the software version being released, and instructions (either directly or by reference) for recognizing, avoiding, correcting, or otherwise handling each one. The information presented shall identify and be appropriate for those impacted.

4. Notes. This section shall contain any general information that aids in understanding this document (e.g., background information, glossary, rationale). This section shall include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document and a list of any terms and definitions needed to understand this document.

A. Appendixes. Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;">SECRET</p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;">SECRET</p>			
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>				3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>			
a. PRIME CONTRACT NUMBER		<input checked="" type="checkbox"/>		a. ORIGINAL <i>(Complete date in all cases)</i>		DATE (YYYYMMDD) 2013/07/31	
b. SUBCONTRACT NUMBER				b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO. DATE (YYYYMMDD)	
<input checked="" type="checkbox"/> c. SOLICITATION OR OTHER NUMBER 56-9632-14		DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete Item 5 in all cases)</i>		DATE (YYYYMMDD)	
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under <u>N00173-10-C-2011</u> <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.							
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.							
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>							
a. NAME, ADDRESS, AND ZIP CODE 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	
7. SUBCONTRACTOR							
a. NAME, ADDRESS, AND ZIP CODE N/A				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A	
8. ACTUAL PERFORMANCE							
a. LOCATION N/A				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT RESEARCH AND DEVELOPMENT IN EO AND IR FOR ADVANCED RECONNAISSANCE (ISR) AND ELECTRONIC WARFARE (WE) PROTOTYPES FOR NAVY/MARINE CORPS TACTICAL AIRCRAFT							
10. CONTRACTOR WILL REQUIRE ACCESS TO:				11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:			
	YES	NO			YES	NO	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>		b. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. FORMERLY RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. INTELLIGENCE INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>		e. PERFORM SERVICES ONLY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
(1) Sensitive Compartmented Information (SCI)	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
(2) Non-SCI	<input checked="" type="checkbox"/>	<input type="checkbox"/>		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. SPECIAL ACCESS INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>		h. REQUIRE A COMSEC ACCOUNT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. NATO INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		i. HAVE TEMPEST REQUIREMENTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h. FOREIGN GOVERNMENT INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
i. LIMITED DISSEMINATION INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		l. OTHER <i>(Specify)</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
k. OTHER <i>(Specify)</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

12. PUBLIC RELEASE. Any information (*classified or unclassified*) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release Direct Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 5660

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, prospective contractor's must 1) have the required SECRET facility clearance at the time of proposal submission and 2) personnel available with favorably adjudicated investigations and final DoD granted personnel security clearances required for the performance of the contract.

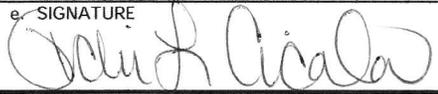
14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. Yes No
 (*If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.*)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. Yes No
 (*If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.*)

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

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE (<i>Include Area Code</i>)
VICKI CICALA	CONTRACTING OFFICER, SECURITY	(202) 767-2240/2576

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

e. SIGNATURE


17. REQUIRED DISTRIBUTION

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input checked="" type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1230, 5660, 5602, 1222