

**INFORMATION TO OFFERORS OR QUOTERS  
SECTION A - COVER SHEET**

1. SOLICITATION NUMBER

2. (X one)

N00173-99-R-CB05

a. SEALED BID

b. NEGOTIATED (RFP)

c. NEGOTIATED (RFQ)

**INSTRUCTIONS**

NOTE THE AFFIRMATIVE ACTION REQUIREMENT OF THE EQUAL OPPORTUNITY CLAUSE WHICH MAY APPLY TO THE CONTRACT RESULTING FROM THIS SOLICITATION.

You are cautioned to note the "Certification of Non-Segregated Facilities" in the solicitation. Failure to agree to the certification will render your reply nonresponsive to the terms of solicitations involving awards of contracts exceeding \$25,000 which are not exempt from the provisions of the Equal Opportunity clause.

"Fill-ins" are provided on the face and reverse of Standard Form 18 and Parts I and IV of Standard Form 33, or other solicitation documents and Sections of Table of Contents in this solicitation and should be examined for applicability.

See the provision of this solicitation entitled either "Late Bids, Modifications of Bids or Withdrawal of Bids" or "Late Proposals, Modifications of Proposals and Withdrawals of Proposals."

When submitting your reply, the envelope used must be plainly marked with the Solicitation Number, as shown above and the date and local time set forth for bid opening or receipt of proposals in the solicitation document.

If NO RESPONSE is to be submitted, detach this sheet from the solicitation, complete the information requested on reverse, fold, affix postage, and mail. NO ENVELOPE IS NECESSARY.

Replies must set forth full, accurate, and complete information as required by this solicitation (including attachments). The penalty for making false statements is prescribed in 18 U.S.C. 1001.

3. ISSUING OFFICE (Complete mailing address, including ZIP Code)

CONTRACTING OFFICER  
NAVAL RESEARCH LABORATORY  
ATTN: CODE 3220.CB  
WASHINGTON DC 20375-5326

4. ITEMS TO BE PURCHASED (Brief description)

KA BAND TRAVELING WAVE TUBE POWER AMPLIFIER SYSTEM

5. PROCUREMENT INFORMATION (X and complete as applicable)

a. THIS PROCUREMENT IS UNRESTRICTED

b. THIS PROCUREMENT IS A \_\_\_\_\_ % SET-ASIDE FOR ONE OF THE FOLLOWING (X one). (See Section I of the Table of Contents in this solicitation for details of the set-aside.)

(1) Small Business

(2) Labor Surplus Area Concerns

(3) Combined Small Business/Labor Area Concerns

6. ADDITIONAL INFORMATION

The Naval Research Laboratory Contracting Division issues solicitations and amendments to solicitations electronically via the Internet at the following website: <http://heron.nrl.navy.mil/contracts/home.htm>.

Any amendments to this solicitation will be posted at that website. Amendments will not be distributed by any other means. It is the responsibility of potential offerors to periodically review the website for amendments to this solicitation.

7. POINT OF CONTACT FOR INFORMATION

a. NAME (Last, First, Middle Initial)

Burkhardt, Cheri

b. ADDRESS (Include Zip Code)

Naval Research Laboratory, Code 3220.CB

c. TELEPHONE NUMBER (Include Area Code and Extension) (NO

COLLECT CALLS) (202)767-6542

4555 Overlook Ave., SW

Washington DC 20375-5326

<b>8. REASONS FOR NO RESPONSE (X all that apply)</b>			
<input type="checkbox"/>	a. CANNOT COMPLY WITH SPECIFICATIONS		<input type="checkbox"/>
<input type="checkbox"/>	c. UNABLE TO IDENTIFY THE ITEM(S)		<input type="checkbox"/>
<input type="checkbox"/>	e. OTHER (Specify)		<input type="checkbox"/>
<input type="checkbox"/>	b. CANNOT MEET DELIVERY REQUIREMENT		<input type="checkbox"/>
<input type="checkbox"/>	d. DO NOT REGULARLY MANUFACTURE OR SELL THE TYPE OF ITEMS INVOLVED		<input type="checkbox"/>
<b>9. MAILING LIST INFORMATION (X one)</b>			
<input type="checkbox"/>	<input type="checkbox"/>	WE DESIRE TO BE RETAINED ON THE MAILING LIST FOR FUTURE PROCUREMENT OF THE TYPE OF TIME(S) INVOLVED.	
<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
<b>10. RESPONDING FIRM</b>			
a. COMPANY NAME		b. ADDRESS (Include Zip Code)	
<b>c. ACTION OFFICER</b>			
(1) Typed or Printed Name (Last, First, Middle Initial)	(2) Title	(3) Signature	(4) Date Signed (YYMMDD)

DD FORM 1707 REVERSE, MAR 90

FOLD

FOLD

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FROM

AFFIX  
STAMP  
HERE

SOLICITATION NUMBER	
N00173-99-R-CB05	
DATE (YYMMDD)	LOCAL TIME
99 Sep 13	4:00 PM

TO

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING <b>DO-C9</b>	PAGE OF <b>1   24</b> PAGES
2. CONTRACT NO.	3. SOLICITATION NO. <b>N00173-99-R-CB05</b>	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFPI)		5. DATE ISSUED <b>13 Aug 99</b>	6. REQUISITION/PURCHASE NO.
7. ISSUED BY <b>CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3220.CB WASHINGTON DC 20375-5326</b>			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 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in Bldg. 222, Rm. 115, Naval Research Lab. until 4:00 local time 13 Sep 99  
(Hour) (Date)

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

10. FOR INFORMATION CALL:	A. NAME <b>Cheri R. Burkhardt</b>	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <b>(202)767-6542</b>
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<input checked="" type="checkbox"/>	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
<input checked="" type="checkbox"/>	C	DESCRIPTION/SPECS./WORK STATEMENT	3	<input checked="" type="checkbox"/>	J	LIST OF ATTACHMENTS	16
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**OFFER (Must be fully completed by offeror)**

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

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

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	%	%	%	%
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
15B. TELEPHONE NO. (Include area code)	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.		17. SIGNATURE
			18. OFFER DATE

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

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION	
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <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)	
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE	
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	
		28. AWARD DATE	

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

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

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

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall provide a prototype Ka Band Traveling Wave Tube Power Amplifier System (TWTPA) in Accordance With Attachment No. 1 And Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423) and Enclosure (1)	* NSP	* NSP	* NSP
<b>TOTAL EST. COST PLUS FIXED FEE FOR CLIN 0001</b>		\$	\$	\$

- Not Separately Priced

**OPTION I**

ITEM NUMBER	SUPPLIES OR SERVICES	UNIT	UNIT PRICE
0003	Ka Band Traveling Wave Tube Power Amplifier (exclusive of high voltage power supply) in Accordance with Attachment 1 and Section C.	EA	\$ **

**OPTION II**

ITEM NUMBER	SUPPLIES OR SERVICES	UNIT	UNIT PRICE
0004	Additional High Voltage On-Board Power Supply in Accordance with Attachment 1 and Section C.	EA	\$ **

**NOTE: (1) The government reserves the right to exercise Option I, CLIN 0003, up to a quantity of 10 each. The government reserves the right to exercise Option II, CLIN 0004, up to a quantity of 5 each. (2) CLINS 0003 and 0004 must be priced the same or less than the price offered for the same components in CLIN 0001. \*\*See H-5 OPTIONS (CLINS 0003 & 0004)**

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

**C-1 STATEMENT OF WORK**

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

**C-2 SUBCONTRACTING PLAN**

Subcontracting Plan \* dated \*is hereby incorporated by reference.

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

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

**(CLIN 0001)**

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

**(CLINS 0003 & 0004)**

**D-2** The Contractor shall mark all shipments under this contract in accordance with the edition of ASTM-D-3951-90 "Standard Practice for Commercial Packaging" in effect on the date of the contract.

**SECTION E  
INSPECTION AND ACCEPTANCE**

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

**FAR CLAUSE    TITLE**

- |           |   |   |
|-----------|---|---|
| 52.246-2  | - | Inspection Of Supplies - Fixed -Price (AUG 1996) <b>(CLINS 0003 &amp; 0004)</b>           |
| 52.246-8  | - | Inspection Of Research And Development - Cost Reimbursement (APR 1984) <b>(CLIN 0001)</b> |
| 52.246-16 | - | Responsibility For Supplies (APR 1984) <b>(CLINS 0003 &amp; 0004)</b>                     |

**DFARS CLAUSE    TITLE**

- |              |   |   |
|--------------|---|---|
| 252.246-7000 | - | Material Inspection And Receiving Report (DEC 1991) |
|--------------|---|---|

**E-2 INSPECTION AND ACCEPTANCE**

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

**SECTION F  
DELIVERIES OR PERFORMANCE**

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

**FAR CLAUSE    TITLE**

- |           |   |   |
|-----------|---|---|
| 52.211-16 | - | Variation In Quantity (APR 1984) - The permissible variation shall be limited to: Percent increase/decrease (fill in: <u>0</u> ) <b>(CLINS 0003 &amp; 0004)</b> |
| 52.211-17 | - | Delivery Of Excess Quantities (SEP 1989) <b>(CLINS 0003 &amp; 0004)</b>   |
| 52.242-15 | - | Stop-Work Order (AUG 1989) <b>(CLINS 0003 &amp; 0004)</b>   |
| 52.242-15 | - | Stop-Work Order (AUG 1989) - Alternate I (APR 1984) <b>(CLIN 0001)</b>  |
| 52.242-17 | - | Government Delay Of Work (APR 1984) <b>(CLINS 0003 &amp; 0004)</b>  |

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

**F-2 PERIOD OF PERFORMANCE**

- a) The work under CLIN 0001 of this contract shall commence from date of contract award through 360 days.
- b) The Government requires delivery of CLINS 0003 and 0004, if exercised, to be made according to the following schedule:

REQUIRED DELIVERY SCHEDULE		
<i>[Contracting Officer insert specific details]</i>		
Item No.	Quantity	After exercise Of Option
0003	1 - 10	30 days
		Per Item *
0004	1 - 5	30 Days
		Per Item*

At the delivery rate of 1 per 30 days                      \* ie. 5 ea. x 30 = 150 days

The Government will evaluate equally, as regards time of delivery, offers that propose delivery of each quantity within the applicable delivery period specified above. Offers that propose delivery that will not clearly fall within the applicable required delivery period specified above, will be considered nonresponsive and rejected.

**F-3 PLACE OF DELIVERY - FOB DESTINATION AND PRINCIPAL PLACE OF PERFORMANCE**

- (a) The contractor shall deliver supplies, all transportation charges paid, to destination in accordance with the clause in Section F of the Schedule titled FAR 52.247-34 FOB Destination (NOV 1991). and
- (b) All deliverables required by Contract Line Item No. 0002 shall be shipped FOB Destination, Naval Research Laboratory, Washington DC 20375-5326, consigned to:

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.)

- (b) The principal place of performance of this contract shall be \*
- ( \* To be filled in at time of award)

## SECTION G CONTRACT ADMINISTRATION DATA

### G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Contract Matters- \*

Security Matters- \*

Safety Matters- \*

Patent Matters- \*

Release of Data- \*

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 3008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

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

### G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

\* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

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

### G-3 ONR 5252.242-9718 - TECHNICAL DIRECTION (DEC 88) (CLIN 0001)

(a) Performance of the work hereunder is subject to the technical direction of the Scientific Officer/COR designated in this contract or his duly authorized representative. 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 serves to accomplish the

- objectives described in the statement of work;
- (2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.
- (b) Technical direction must be within the general 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 only individual authorized to in any way amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten working days after its receipt. The Contractor shall not proceed with the work affected by the technical direction until the Contractor is notified by the Contracting Officer that the technical direction is within the scope of the contract.
- (d) Nothing in the foregoing paragraphs may be construed to excuse the Contractor from performing that portion of work statement which is not affected by the disputed technical instruction.

**G-4 SUBCONTRACTORS/CONSULTANTS (CLIN 0001)**

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

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

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

**G-5 NAPS 5252.232-9000 - SUBMISSION OF INVOICES (FIXED PRICE) (JUL 1992) (CLINS 0003 & 0004)**

- (a) "Invoices" as used in this clause does not include contractor's requests for progress payments.
- (b) The contractor shall submit original invoices with 4 copies to the address identified in the solicitation/contract award form (SF 26-Block 10; SF 33-Block 23; SF 1447-Block 14), unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order (DD 1155-Block 13 or SF 26-Block 10).
- (c) The use of copies of the Material Inspection and Receiving Report (MIRR), DD Form 250, as an invoice is encouraged. DFARS Appendix F-306 provides instructions for such use. Copies of the MIRR used as an invoice are in addition to the standard distribution stated in DFARS F-401.
- (d) In addition to the requirements of the Prompt Payment clause of this contract, the contractor shall cite on each invoice the contract line item number (CLIN); the contract subline item number (SLIN), if applicable; the accounting classification reference number (ACRN) as identified on the financial accounting data sheets, and the payment terms.

(e) The contractor shall prepare:

- a separate invoice for each activity designated to receive the supplies or services.  
 a consolidated invoice covering all shipments delivered under an individual order.  
 either of the above.

(f) If acceptance is at origin, the contractor shall submit the MIRR or other acceptance verification directly to the designated payment office. If acceptance is at destination, the consignee will forward acceptance verification to the designated payment office.

#### **G-6 INVOICING ADDRESS (CLINS 0003 & 0004)**

With reference to paragraph (b) of the above provision, "Submission of Invoices(Fixed Price)", the contractor shall submit invoices to the address in Block 12 of the contract award form (SF26)

#### **G-7 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992) (CLIN 0001)**

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to the contract auditor at the following address:

(To be filled in at time of award)

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)
  - (2) Subline item number (SLIN)
  - (3) Accounting Classification Reference Number(ACRN)
  - (4) Payment terms
  - (5) Procuring activity
  - (6) Date supplies provided or services performed
  - (7) Costs incurred and allowable under the contract
  - (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
- (e) A DD Form 250, "Material Inspection and Receiving Report",  
 is required with each invoice submittal.  
 is required only with the final invoice.  
 is not required.

## (f) A Certificate of Performance

    \*\*     shall be provided with each invoice submittal.

    \*X\*     is not required.

(g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.

(h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

**G-8 PAYMENT OF FIXED FEE (COMPLETION FORM) (CLIN 0001)**

The fixed fee set forth in Section B of this contract shall be payable on completion of the work and services required under each CLIN of this contract and their acceptance on behalf of the Government. However, the contractor may bill on each voucher the amount of the fixed fee bearing the same percentage to the amount of cost billed as the total fixed fee bears to the total estimated cost set forth in Section B, subject to the contract clause entitled "Fixed Fee" (FAR 52.216-8). If the fixed fee is reduced pursuant to any clause or requirement of this contract and the reduced fee is less than the sum of all fee payments made to the contractor under this contract, the contractor shall repay the difference to the Government. The total fee paid the contractor shall not exceed the fixed fee set forth in Section B.

**G-9 INCREMENTAL FUNDING (CLIN 0001)**

This contract is incrementally funded pursuant to the Limitation of Funds clause, FAR 52.232-22. Funds are allotted to the contract in the amount of \$ \* and it is estimated that they are sufficient for contract performance through \*.

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

**G-10 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT) (CLIN 0001)**

The purpose of these instructions is to permit the paying office to charge the accounting classification citations in the contract in a manner that reflects the performance of the contract. These instructions do not create any obligation on the part of the Government or the contractor nor do they in any way alter any obligation created by any other provision of the contract. Invoices should be paid from available ACRNs in the following order:

(a) ACRNs cited on the contractor's invoice.

(b) On a proportional basis from any ACRNs assigned to funds which will cancel at the end of the current fiscal year.

(c) The ACRN assigned to the following line of accounting:

97X4930.NH4A 000 77777 0 000173 2F 000000 N00173Z45000.

(d) If funds appropriated in more than one fiscal year are allotted to the contract, the ACRN assigned to the oldest allotment of funds.

(e) On a proportional basis from all ACRNs assigned to allotments of funds appropriated in a single fiscal year.

## SECTION H SPECIAL CONTRACT REQUIREMENTS

### H-1 TYPE OF CONTRACT

(To be filled in at time of award)

### H-2 ONR 5252.235-9714 - REPORT PREPARATION (FEB 97) (CLIN 0001)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, "Scientific and Technical Reports: Elements, Organization, and Design. "[NOTE: ANSI Z39.18 may be obtained from NISO Press Fulfillment Center, P. O. Box 338, Oxon Hill, MD. 20750-0338. Telephone 1-800-282-6476]

### H-3 YEAR 2000 COMPLIANT INFORMATION TECHNOLOGY

This requirement applies to information technology (IT) that processes date-related information. All such IT delivered under this contract shall be Year 2000 compliant as defined at FAR 39.002.

### H-4 REPRESENTATIONS AND CERTIFICATIONS

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

### H-5 OPTIONS (CLINS 0003 & 0004)

- (a) Upon acceptance of the prototype provided under CLIN 0001, the government may exercise the option to procure additional quantities of the item on a fixed price basis. It has been determined in accordance with FAR 17.203 (f) that this is an unusual circumstance and the option quantities will be procured at a unit price no higher than that paid for the initial requirement.
- (b) Within thirty (30) days from acceptance of CLIN 0001, the contractor shall provide a firm fixed price proposal for additional quantities under CLINs 0003 and 0004. The government reserves the right to exercise the option at a unit price equal to or less than the total cost of CLIN 0001.
- (c) The government may exercise its initial option to procure additional quantities within 30 days after receipt and acceptance of the contractor's proposal and may exercise its option for additional quantities from date of exercise of first option through twelve (12) months.

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

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

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

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

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

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

**The following clauses apply to both the Cost Reimbursable and the Firm Fixed Price portion of this requirement.**

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

**FAR CLAUSE    TITLE**

- |           |   |  |
|-----------|---|--|
| 52.202-1  | - | Definitions (OCT 1995)   |
| 52.203-3  | - | Gratuities (APR 1984)  |
| 52.203-5  | - | Covenant Against Contingent Fees (APR 1984)  |
| 52.203-6  | - | Restrictions On Subcontractor Sales To The Government (JUL 1995)   |
| 52.203-7  | - | Anti-Kickback Procedures (JUL 1995)  |
| 52-203-8  | - | Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)  |
| 52.203-10 | - | Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)  |
| 52.203-12 | - | Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)  |
| 52.204-4  | - | Printing/Copying Double-Sided On Recycled Paper (JUN 1996)   |
| 52.209-6  | - | Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)                              |
| 52.211-15 | - | Defense Priority and Allocation Requirements (SEP 1990)  |
| 52.215-2  | - | Audit And Records-Negotiation (JUNE 1999)  |
| 52.215-8  | - | Order of Precedence - Uniform Contract Format (OCT 1997)   |
| 52.215-14 | - | Integrity of Unit Prices (OCT 1997)  |
| 52.215-17 | - | Waiver of Facilities Capital Cost of Money (OCT 1997)<br>( <i>will be included if the successful offeror does not propose facilities capital cost of money</i> ) |
| 52.219-4  | - | Notice of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999) <input type="checkbox"/> Offeror elects to waive the evaluation preference. |
| 52.219-8  | - | Utilization Of Small Business Concerns (JUNE 1999)   |
| 52.219-9  | - | Small Business Subcontracting Plan (JAN 1999) - Alternate II (JAN 1999)  |
| 52.219-16 | - | Liquidated Damages-Subcontracting Plan (JAN 1999)  |
| 52.219-25 | - | Small Disadvantaged Business Participation Program-Disadvantaged Status And Reporting (JAN 1999)   |

- 52.222-1 - Notice To The Government Of Labor Disputes (FEB 1997)
- 52.222-3 - Convict Labor (AUG 1996)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (FEB 1999)
- 52.222-35 - Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.223-2 - Clean Air And Water (APR 1984)
- 52.223-6 - Drug-Free Workplace (JAN 1997)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 1996)
- 52.225-11 - Restrictions On Certain Foreign Purchases (AUG 1998)
- 52.226-1 - Utilization Of Indian Organizations And Indian-Owned Economic Enterprises (MAY 1999)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)  
*(will be included if the successful offeror is a small business or a non-profit organization)*
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)  
*(will be included if the successful offeror is not a small business or a non-profit organization)*
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (APR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-25 - Prompt Payment (JUN 1997)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998)
- 52.237-10 - Identification of Uncompensated Overtime (OCT 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.245-9 - Use And Charges (APR 1984) (DEVIATION)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984) (Fill in: 52.245-5 and 52.245-9  
Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

**b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES**

**DFARS CLAUSE TITLE**

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 1998)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.219-7003 - Small Business And Small Disadvantaged Business Subcontracting Plan (DoD Contracts) (APR 1996)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (MAR 1998)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (DEC 1991)
- 252.225-7009 - Duty Free Entry- Qualifying Country Supplies (End Products and Components) (MAR 1998)
- 252.225-7010 - Duty Free Entry - Additional Provisions (MAR 1998)
- 252.225-7012 - Preference For Certain Domestic Commodities (MAY 1999)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (AUG 1998)
- 252.225-7025 - Restriction On Acquisition Of Forgings (JUN 1997)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7039 - Patents--Reporting of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.243-7002 - Requests for Equitable Adjustment (MAR 1998)
- 252.247-7023 - Transportation Of Supplies By Sea (NOV 1995)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (NOV 1995)  
*(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)*

**The following clauses apply to the Cost Reimbursable portion only of this requirement.**

**a. FEDERAL ACQUISITION REGULATION CLAUSES**

**FAR CLAUSE    TITLE**

- 52.215-11 - Price Reduction for Defective Cost or Pricing Data - Modifications (OCT 1997)
- 2.215-13 - Subcontractor Cost or Pricing Data Modifications (OCT 1997)
- 52.215-15 - Pension Adjustments And Asset Reversions (DEC 1998)
- 52.215-18 - Reversion or Adjustment of Plans for Post-retirement Benefits (PRB) Other than Pensions (OCT 1997)
- 52.215-19 - Notification of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)

- 52.216-7 - Allowable Cost And Payment (APR 1998)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (OCT 1995)
  
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.244-6 - Subcontracts for Commercial Items and Commercial Components (OCT 1998)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)

**b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES**

**DFARS CLAUSE TITLE**

- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (MAR 1998)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7016 - Rights In Bids or Proposal Information (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (OCT 1988)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (NOV 1995)
- 252.235-7010 - Acknowledgment of Support and Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (MAY 1995)
- 252.242-7004 - Material Management And Accounting System (SEP 1996)
- 252.245-7001 - Reports of Government Property (MAY 1994)

**The following clauses apply to the Firm Fixed Price portion only of this requirement.**

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

52.211-5	-	Material Requirements (OCT 1997)
52.225-10	-	Duty-Free Entry (APR 1984)
52.227-1	-	Authorization and Consent (JUL 1995)
52.227-3	-	Patent Indemnity (APR 1984)
52.229-3	-	Federal, State, And Local Taxes (JAN 1991)
52.229-5	-	Taxes - Contracts Performed In U.S. Possessions Or Puerto Rico (APR 1984)
52.232-1	-	Payments (APR 1984)
52.232-8	-	Discounts For Prompt Payment (MAY 1997)
52.232-11	-	Extras (APR 1984)
52.232-23	-	Assignment of Claims (JAN 1986)
52.233-3	-	Protest After Award (AUG 1996)
52.243-1	-	Changes - Fixed Price (AUG 1987)
52.249-2	-	Termination For Convenience Of The Government (Fixed Price) (SEP 1996)
52.249-8	-	Default (Fixed-Price Supply And Service) (APR 1984)

**b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES****DFARS CLAUSE    TITLE**

252.233-7000	-	Certification Of Claims And Requests For Adjustment Or Relief (MAY 1994)
252.243-7001	-	Pricing Of Contract Modifications (DEC 1991)

**I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (JUN 1996)****(a) Definitions.**

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

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

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

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

**I-3 DFARS 252.225-7008 - SUPPLIES TO BE ACCORDED DUTY- FREE ENTRY (MAR 1998)**

In accordance with paragraph (b) of the Duty-Free Entry clause of this contract, in addition to duty-free

entry for all qualifying country supplies (end products and components) and all eligible end products subject to applicable trade agreements (if this contract contains the Buy American Act - Trade Agreements - Balance of Payments Program clause or the Buy American Act - North American Free Trade Agreement Implementation Act - Balance of Payments Program clause ), the following foreign end products that are neither qualifying country end products nor eligible end products under a trade agreement, and the following nonqualifying country components, are accorded duty free entry.

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

- J-1** Attachment (1) – Statement of Work – 7 Pages, with Exhibit A – DD Form 1423, Contract Data Requirements List, 3 Pages.
- J-2** Attachment ( ) – ACCOUNTING AND APPROPRIATION DATA – 1 page. \*  
(\*To be included at time of award)

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

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

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

**K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 1999)**

The fill in information is as follows:

The standard industrial classification (SIC) code for this acquisition is 3663.

The small business size standard is 750.

### **K-3 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING**

The Offeror's CAGE Code is {fill-in}\_\_\_\_\_.

See DFARS 252.204-7001 in Section L for procedures on requesting a CAGE Code.

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

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

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

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

#### **FAR CLAUSE    TITLE**

52.204-6	-	Data Universal Numbering System (DUNS) Number (JUNE 1999)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)
52.215-1	-	Instructions to Offerors- Competitive Acquisition (OCT 1997)
52.215-5	-	Facsimile Proposals (OCT 1997)
52.215-16	-	Facilities Capital Cost Of Money (OCT 1997)
52.219-24	-	Small Disadvantaged Business Participation Program - Targets (JAN 1999)
52.252-5	-	Authorized Deviations in Provisions (APR 1984)

### **L-2 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)**

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

### **L-3 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)**

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below

**See L-10, Instructions For Submission And Information Required To Evaluate Proposals.**

**L-4 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)**

The Government contemplates award of a Cost Plus Fixed Fee Completion form contract for (CLIN 0001) and Firm Fixed Priced for (CLINS 0003 & 0004), if exercised, resulting from this solicitation.

**L-5 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)**

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

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

**L-6 DFARS 252.204-7001 - COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (DEC 1991)**

- (a) The Offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter CAGE Before the number.
- (b) If the Offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Services Center (DLSC). The Contracting Officer will--
  - (1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of the Commercial and Government Entity (CAGE) Code;
  - (2) Complete section A and forward the form to DLSC; and
  - (3) Notify the Contractor of its assigned CAGE code.
- (c) Do not delay submission of the offer pending receipt of a CAGE code.

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

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation--
  - (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
  - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.

(c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:  
 Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

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

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

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

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

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

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

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

Date \_\_\_\_\_

Printed Name and Title \_\_\_\_\_

Signature \_\_\_\_\_

(End of identification and assertion)

(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.

- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

**L-8 GOVERNMENT-FURNISHED PROPERTY**

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

**L-9 INQUIRIES CONCERNING THE RFP**

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

**L-10 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS**

- (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 Identification/Mailing - The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

**Solicitation No. N00173-99-R-CB05**  
**Closing Date:**  
**(As specified in Block 9, RFP face page)**  
**Attn: Code 3220.CB**

- (3) 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-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES .

- (1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price.
- (2) The following information is required for evaluation of your technical/management :

A. TECHNICAL APPROACH

The proposal must clearly demonstrate the offeror's Traveling Wave Tube (TWT) collector design and a description of any alternative designs to be considered. Heat transfer issues with the collector design must be discussed. Other important design issues, such as the achievement of the specified bandwidth and saturated power output across the desired bandwidth at 100% duty cycle should be discussed. A discussion of anticipated performance measures such as frequency range, saturated output power, harmonic power, small signal gain and prime power required must be included. A credible risk assessment of both individual required technologies, hardware and integration issues for the Traveling Wave Tube Power Amplifier System (TWTPA) must be provided. The tradeoff factors leading to the proposed power supply design must be described in the proposal.

## B. CORPORATE EXPERIENCE

Proposals must provide a narrative description of company experience on projects with tasks similar to those required in the Statement of Work. The experience to be addressed include: (1) wide band TWTPA design, analysis and fabrication, (2) Ka band component experience, and (3) high voltage power supply development for traveling wave tubes. The offeror shall indicate past experience on related contracts and the internal research and development efforts of both the offeror and relevant subcontractors.

## C. PAST PERFORMANCE INFORMATION

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

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

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as

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

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

#### D. PERSONNEL QUALITY AND EXPERIENCE

Proposals must describe the adequacy of personnel experience on applicable projects as evidenced by a narrative description of the experience. This experience must clearly show the relationship to the Statement of Work, and provide details, such as a project description. The prime contractor and major subcontractors must identify key personnel with adequate experience as well as list personnel with specific experience in various technical fields such as: traveling wave tube development, Ka band component design, high voltage power supply development for traveling wave tubes, and TWTPA system testing. The proposal must include publications, patents and relevant projects of these personnel

### **L-12 VOLUME II - BUSINESS PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES

#### (1) COST PROPOSAL

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with 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 the cost elements. 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.

#### (2) SMALL BUSINESS PARTICIPATION

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (Jan 1999) with its Alternate II, proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

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

## **SECTION M EVALUATION FACTORS FOR AWARD**

### **M-1 EVALUATION**

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

### **M-2 EVALUATION FACTORS FOR AWARD**

Proposals will be evaluated in accordance with the following criteria. The technical factor A is significantly more important than factors B, C, and D and all are listed in descending order of importance.

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

##### **A. TECHNICAL APPROACH**

The proposal will be evaluated based on the offeror's technical approach for completing on-schedule the design, analysis, development and test of the Ka Band Traveling Wave Tube Power Amplifier (TWTPA) System described in the Statement of Work (SOW). The offeror's proposal will be evaluated on the electrical and mechanical design details to meet or exceed the SOW.

##### **B. CORPORATE EXPERIENCE**

The proposal will be evaluated based on the offeror's corporate expertise in work which is closely related to the efforts required in the Statement of Work. The experience of the offeror and proposed subcontractors shall be evaluated for appropriate expertise in the technical fields relevant to the design, analysis, development and testing of a Ka Band TWTPA System.

##### **C. 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. 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)(iii).

**D. PERSONNEL QUALITY AND EXPERIENCE**

The proposal will be evaluated on the offeror's ability to provide sufficient personnel with the qualifications and experience required to complete the tasks in the Statement of Work. The experience of personnel will be evaluated for relative expertise in the technical fields relevant to the design, analysis, development and testing of a Ka Band TWTPA System.

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

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

**M-2-3 SMALL BUSINESS PARTICIPATION**

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

**M-3 FAR 52.217-3 – EVALUATION EXCLUSIVE OF OPTIONS (APR 1984)**

The Government will evaluate offers for award purposes by including only the price for the basic requirement, i.e., options will not be included in the evaluation for award purposes.

**STATEMENT OF WORK (SOW)/SPECIFICATION**

**Ka Band Traveling Wave Tube Power Amplifier Systems**

1. **BACKGROUND:** The Naval Research Laboratory's (NRL) Tactical Electronic Warfare Division (TEWD) is investigating the construction of a millimeter wave towed decoy (MMWTD) under an exploratory development effort. This investigation benefits from previous work performed by NRL/TEWD on the AN/ALE-50 decoy programs while adding coverage at millimeter wavelengths and enhancing onboard Electronic Counter Measures (ECM). For this application the decoy must be towed behind an aircraft and serves as a remote transmitter from the aircraft.

2. **SCOPE:** The contractor shall design, develop, analyze, and test a prototype Ka band, Traveling Wave Tube Power Amplifier (TWTPA) to enhance the capability of the Navy's towed decoy program. The TWTPA is a complete system consisting of traveling wave tube (TWT) with power supply, a solid state pre-amplifier with integral bias tee input and a low voltage power supply for the pre-amplifier.

3. **REQUIREMENTS**

3.1 **Electrical Design:** The contractor's design of the TWTPA shall satisfy the electrical and mechanical requirements of this SOW. The contractor shall provide all necessary components to meet the design, development and prototype effort of the solid state pre-amplifier, the TWT, and the associated power supplies. The electrical specification for the TWTPA are as follows:

Frequency range	18-40 GHz 26-40 GHz minimum
Saturated Output Power	50 watts CW (100% duty) 20 watts CW (100% duty) minimum
Harmonic Power	<-12 dBc
Saturated drive power at input to solid state pre-amplifier	< -25 dBm
Small signal gain (including pre-amplifier)	63 dB minimum
Small signal gain flatness (including pre-amplifier)	< 1 dB within any 1 GHz band within frequency range
Input VSWR to pre-amp	<1.5:1
Output Load VSWR	<2:1
Prime Power	< 250 Watts @ 115 volts, three phase, 400 Hertz
Output waveguide	WRD180, axially oriented

**3.1.1 Traveling Wave Tube (TWT):** The contractor shall design the input to the TWT to be compatible with the output from the solid state pre-amplifier. The contractor shall design the TWT's output port to be axially-oriented and to interface with a suitable antenna to be identified by NRL/TEWD no later than the PDR.

**3.1.2 Power Supply:** The contractor has a choice of either completely developing their own power supply as stated in paragraph 3.1.2.1 for TWTPA or to use the existing NRL Special Purpose Power Supply (SPPS) as stated in paragraph 3.1.2.2.

**3.1.2.1 Power Supply - Developed by Contractor:** The contractor shall be responsible for design, development and prototype effort of the power supply for the TWTPA. The electrical input for the power supply must consist of standard aircraft three-phase, 115 volt, 400 Hertz, prime power, with the total power requirement divided equally among the three phases. The electrical power transmission between the aircraft and TWTPA in the tow body must occur via a special umbilical (i.e. tow line). The current towline configuration possesses six (6) #34 AWG conductors and an optical fiber. The small diameter of the electrical wire necessitates that the power supply be divided between a high voltage (relative to 115 volt supply) section located on-board the aircraft and a separate section located in the tow body. The power supply in the tow body must supply power for the pre-amplifier with integral bias-tee and for the traveling wave tube. The maximum voltage of the on-board power supply is limited by the minimum electrical breakdown strength of the existing wire insulation, which is estimated at approximately 4500 volts potential between any pair of wires for reliable operation. The TWTPA operation must be enabled/disabled via a DC voltage control input (28 volts discrete) into the onboard power supply. The size of the on-board power supply must not exceed 3.5 in. high x 7 in. wide x 20 in. long.

**3.1.2.2 NRL SPPS (optional):** The contractor has the option to use an existing on-board (i.e. pod-mounted) Special Purpose Power Supply (SPPS) for the prototype Ka Band Traveling Wave Tube Power Amplifier System to be provided as government furnished property (GFE). This SPPS was designed to provide electrical power and status checking for the Lot I version of the ALE-50 towed decoy. The design/performance specifications of the SPPS are as follows:

Size	3.5 in. high x 7 in. wide x 20 in. long
Voltage outputs:	350 volts DC (unregulated) -1950 volts DC (regulated)

	COMMON
Maximum current:	350 milliamperes @ 350 volts 250 milliamperes @ -1950 volts

**3.1.3 Solid State Pre-amplifier:** The contractor shall design each pre-amplifier module with a single male 2.4 mm coaxial input port and with an output port compatible with the input port to the TWT. The input port must also provide a negative three volts (-3 volts) bias @ 10 milliamperes maximum current to the center pin of the 2.4 mm coaxial connector.

**3.2 Environmental Design:** The TWTPA shall be capable of operating under the following conditions:

Operating temperature	-20 to +60 °C
Storage temperature	-40 to +71 °C
Barometric pressure	Equivalent of sea level to 20,000 feet
Shock	Up to 12g
Vibration	±10g at 10 to 2000 Hertz

**3.3 Mechanical Design:** The contractor shall design the interfaces required to mount the TWTPA assembly inside of the aerodynamic tow body. Allowance shall be made for electrical wire connections and an optical fiber connection between the towline adapter and the towed portion of the TWTPA. The contractor shall verify these allowances with NRL/TEWD at the CDR to ensure that the TWTPA assembly fits within the allowed volume and interfaces with the tow body. The portion of the TWTPA located in the tow body must have provisions so that the waveguide output from the TWT can be mated with an antenna to be identified by NRL no later than the CDR in either the nose or the tail of the tow body.

**3.3.1 Integration and Interface Information:** The towed portion of the TWTPA must fit within a cylindrical tow body with an outer diameter not to exceed 2.75 in. and with a length of approximately 25 in. The tow body must have provisions on the aft end for placement of tail fins and attachment of the towline near to the center of gravity. The available space in the tow body for all components including the TWT, power supply, an optical fiber photodetector, an antenna, and tow point adapter is a cylindrical volume approximately 25 inches in length x 2.75 inches OD, including the tow body enclosure. The contractor shall verify with NRL/TEWD no later than the CDR that the towed portion of the TWTPA assembly fits within the tow body enclosure.

**3.4 Environmental Analysis:** The contractor's mechanical design must take into account decoy operating environment of -20 to +60 °C temperature range and altitude

to 20,000 feet. The contractor shall perform a thermal analysis of the TWTPA, and is to be discussed at the CDR paragraph 4.3.3 (CDRL A005), also covering the on-board section of the power supply to ensure that it will function in the decoy's operating environment.

**3.5 Integration and Test:** The contractor shall assemble and test one (or more, if optional units are purchased) TWTPA, and if applicable, one (or more, if optional units are purchased) on-board high voltage power supply section. The tests that the contractor shall perform have been previously identified and established at the Critical Design Review (CDR), paragraph 4.3.3 (CDRL A005). The contractor shall integrate the TWTPA with the tow body and test to verify the TWTPA performance. Before the final integration, tests shall be performed to verify the performance and quality of the constituent parts.

**3.6 Deliverables:** The contractor shall deliver one TWTPA including one on-board high voltage power supply section, either the NRL supplied SPPS or the contractor developed high voltage power supply, to NRL 360 days after contract award.

#### 4. CONTRACT MANAGEMENT AND DATA REPORTING

- 4.1 **Monthly Progress Reports:** The contractor shall perform administrative, technical, and financial management functions during the course of this effort and shall maintain a status of its effort towards achieving the SOW objectives, including all technical activities and efforts, problems/deficiencies, impacts, recommended solutions, pertinent test and simulation data, etc. The contractor shall submit a record of all administrative, technical and financial functions in monthly progress reports, to be submitted prior to the 10<sup>th</sup> working day after the 1<sup>st</sup> complete month after contract award, and prior to the 10<sup>th</sup> working day of each subsequent month (CDRL A002).
- 4.2 **Data Accession List:**  
The Contractor shall maintain a record of all internal data, documents, and computer programs and files that have been generated during execution of this SOW. This includes significant technical accomplishments, details of actions performed for all analysis of system interfaces, problems encountered, implemented solutions, and all presentations for the Technical Program Reviews. A comprehensive index of all data documents, and computer files applicable to this SOW shall be submitted to NRL prior to the 15<sup>th</sup> calendar day after the 1<sup>st</sup> complete month after contract award, and prior to the 15<sup>th</sup> calendar day of each subsequent month (CDRL A001)
- 4.3 **Technical Program Reviews (TPRs) and Conference Agenda/Minutes:** The contractor shall conduct three technical program reviews, including a kickoff meeting at program initiation, a preliminary design review (PDR), and a critical design review (CDR). The contractor shall not proceed with detailed design until after receiving formal PDR approval from the Contracting Officer. The kickoff meeting, the PDR, and the CDR shall be held at the contractor's facility. The conference agenda shall be submitted to NRL for approval 10 working days before each scheduled TPR. The contractor shall record minutes of all TPRs, and submit a record of the minutes within 10 working days after the TPR. NRL will have 5 working days for review of conference minutes and agendas. Disapproval of agenda/minutes requires incorporation of NRL's comments and resubmittal within 5 working days after receipt of government comments. Other technical interchange meetings will be held when there is a need for additional technical exchange of information between the Government and contractor. (CDRL A003, A004, A005)
- 4.3.1 **Kickoff Meeting:** A 1-day kickoff meeting will occur approximately 7 days after contract award at the contractor's facility. The contractor shall provide the overall TWTPA design approach, a discussion of critical design milestones and long lead procurements, and a preliminary estimate of the TWTPA development and delivery schedule. The contractor shall record minutes of the kickoff meeting, and submit a record of the minutes within 10 working days after the kickoff meeting. NRL will have 5 working days for review of the meeting minutes. Disapproval of minutes requires

incorporation of NRL's comments and resubmittal within 5 working days after receipt of government comments (CDRL A003).

- 4.3.2 Preliminary Design Review (PDR):** The contractor shall provide a 1 day review of the preliminary design at the contractor's facility 60 days after contract award. The contractor shall include in the review design drawings, design trade-offs, current schedule, and status for all long-lead and major components and hardware to be purchased. The contractor shall also address preliminary form and fit and external interfaces. Plans are also to be given for any items for which fabrication needs to begin before the critical design review. A conference agenda shall be submitted to NRL for approval 10 working days before the PDR. The contractor shall record minutes of the PDR, and submit a record of the minutes within 10 working days after the PDR. NRL will have 5 working days for review of conference minutes and agendas. Disapproval of agenda/minutes requires incorporation of NRL's comments and resubmittal within 5 working days after receipt of government comments (CDRL A004).
- 4.3.3 Critical Design Review (CDR):** The contractor shall provide a 1 day review of the final design at the contractor's facilities 120 days after contract award. The contractor shall include in the review a discussion of the integration of the TWTPA system with the tow body enclosure and related interface issues. The contractor shall include a discussion of a thermal analysis to ensure that the TWTPA will function in the decoy's operating environment. The contractor shall identify all tests to be performed on the completed TWTPA prior to delivery to verify the performance and quality of the constituent parts. A conference agenda shall be submitted to NRL for approval 10 working days before the CDR. The contractor shall record minutes of the CDR, and submit a record of the minutes within 10 working days after the CDR. NRL will have 5 working days for review of conference minutes and agendas. Disapproval of agenda/minutes requires incorporation of NRL's comments and resubmittal within 5 working days after receipt of government comments (CDRL A005).
- 4.4 Drawings:** The contractor shall provide NRL/TEWD with TWTPA outline drawings and interface drawings at CDR, upon any mechanical design changes approved by NRL/TEWD, and with the Final Report. The drawings must include all electrical and mechanical interfaces and dimensions and circuit diagrams. The contractor shall submit a copy of the drawings within 10 working days after the CDR. (CDRL A005)
- 4.5 Final Report:** The contractor shall document all work performed and results obtained for this task, including detailed design information, sketches, photographs, and final drawings. The report must formally indicate the completion of all SOW tasks. The final report must be submitted within 60 days after contract completion. (CDRL A006)

5. **OPTION**

5.1 **Additional TWTPAs:** The contractor shall provide, if exercised, a minimum of one and a maximum of 10 additional TWTPAs (exclusive of the on-board power supply), and, if exercised, a minimum of one and a maximum of 5 additional on-board power supplies.

# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved  
OMB No. 0704-0188

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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 0002		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TOP _____ TM _____ OTHER _____	
<b>D. SYSTEM / ITEM</b> 0001		<b>E. CONTRACT / PR NO.</b> N00173-99-R-CB05		<b>F. CONTRACTOR</b>	
<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> Data Accession List		<b>3. SUBTITLE</b>		
<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A		<b>5. CONTRACT REFERENCE</b> SOW PAR. 4.2		<b>6. RECORDING OFFICE</b> NRL CODE 5713	
<b>7. DD FORM REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b> N/A	<b>10. FREQUENCY</b> Monthly	<b>12. DATE OF FIRST SUBMISSION</b> See Block 16		<b>14. DISTRIBUTION</b>
<b>9. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Block 16		<b>15. COPIES</b>	
<b>16. REMARKS</b>			<b>17. ADDRESS</b>		<b>18. TOTAL</b>
Contractor format acceptable.  15th calendar day after 1st complete month.  15th calendar day of subsequent months.			NRL COR		0 2 0
19. TOTAL			0		2 0

  

<b>1. DATA ITEM NO.</b> A002		<b>2. TITLE OF DATA ITEM</b> Monthly Progress Reports		<b>3. SUBTITLE</b>	
<b>4. AUTHORITY (Data Acquisition Document No.)</b> N/A		<b>5. CONTRACT REFERENCE</b> SOW PAR. 4.1		<b>6. RECORDING OFFICE</b> NRL CODE 5713	
<b>7. DD FORM REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b> N/A	<b>10. FREQUENCY</b> Monthly	<b>12. DATE OF FIRST SUBMISSION</b> See Block 16		<b>14. DISTRIBUTION</b>
<b>9. APP CODE</b> N/A	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> See Block 16		<b>15. COPIES</b>	
<b>16. REMARKS</b>			<b>17. ADDRESS</b>		<b>18. TOTAL</b>
Contractor format acceptable.  10th working day after end of the first complete contractor accounting month-end.  10th working day after contractor accounting month-end.			NRL COR		0 2 0
19. TOTAL			0		2 0

  

<b>G. PREPARED BY</b> NRL CODE 5713		<b>H. DATE</b> 6/23/99	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE



