

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE PAGE OF PAGES  
1 3

2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 8/21/00	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3220.HA WASHINGTON, DC 20375-5326	CODE N00173	7. ADMINISTERED BY (If other than Item 6)	CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  TO ALL OFFERORS	(X)	9A. AMENDMENT OF SOLICITATION NO. N00173-00-R-HA07
		9B. DATED (SEE ITEM 11) 24 JUL 00
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)
CODE	FACILITY CODE	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE ATTACHED PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED

The purpose of this Amendment 0001, Solicitation N00173-00-R-HA07 dated 24 Jul 00, for contractor support for material research thin-film disposition and rapid prototyping devices is to answer questions that were submitted by the prospective offerors, to incorporate a revised Attachment No. 3, to incorporate a revised Form 1423 – Contract Data Requirements List, and to change the closing date.

1. The questions asked by prospective offerors are as follows:

Question No. 1: Reference – Level of Effort (Clause H-3(k) and the Statement of Work (SOW), it appears that there is a need for a full-time, non-degreed technician to support microelectronics fabrication, maintenance and support of components such as micro-mechanical switches, microwave components, magneto-electronic devices and hybrid Hall Effect structures. Can this labor category be made a part of the level of effort?

Answer: Yes, the level of effort is revised to add one Technician (See revised Attachment No. 3).

Question No. 2: Reference – Level of Effort (Clause H-3 (k) and the SOW, it appears that there is a need for a full-time Junior Data Technician to provide support for data entry. Can this labor category be made a part of the level of effort?

Answer: Yes, the level of effort is revised to add one Junior Data Technician (See revised Attachment No. 3).

Question No. 3: How many hours does the Government consider a man-year?

Answer: A man-year has 2,080 man-hours. Therefore, based on the questions and answers to 1 and 2, Clause H.3 (k), "ONR 5252.216-9706 – Level of Effort (DEC 99)" is be revised to add the following categories each year for Base Year and Options 1 through 4: Technician – 2080 hours; Jr. Technician – 2080 hours.

Question No. 4: On Attachment 3 of the RFP, will the Government allow a Bachelor's Degree in Electrical Engineering as a qualification for labor category of "Physicist/Mechanical"?

Answer: Change the labor category "Physicist/Mechanical to a Physicist/Electrical". Also, only one key personnel for the new Physicist/Electrical is required.

Question No. 5: Does the Government require only one key person for an Electrical Engineer?

Answer: Yes.

Question No. 6: Please clarify what the government mean on Block 2 of Item No. A003 and on Block 16 of Item No. A004 as described on DD Form 1423 – Contract Data Requirements List.

Answer: A revised DD 1423 is hereby incorporated into this amendment.

Question No. 7: Clause L-6 stated that the submission of cost and pricing data is not required, however, clauses L-3, L-4 and L-5 indicated that it is required unless there is an exception, which clause is applicable?

Answer: Delete Section L-6. The other clauses, L-3, L-4, and L-5 apply with the basic provision and must include Alternates II and III.

Question No. 8: How many past performance contracts are required by Clause L-14 "Volume I – Technical/Management Proposal", Past Performance information?

Answer: There is no limit required, but at least two contracts to demonstrate past performance are preferable.

2. In addition to the questions and answers above, a revised copy for Attachment 3 is hereby attached.

3. The closing date of the solicitation is revised from 24 Aug 2000 to 31 Aug 2000. NRL uses Electronic Commerce (EC) to issue RFPs and amendments to RFPs.

4. The solicitation and any amendments to it will be available via the Internet at <http://heron.nrl.navy.mil/contracts/rfplist.htm>. Paper copies of the RFP will not be provided.

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

## PERSONNEL QUALIFICATIONS

(Revised)

1. **\*Physicist/ Electrical Engineer - Must have a Bachelors degree in physics or Electrical Engineering and a minimum of 3 years experience in the operation and maintenance of small particle accelerators such as ion implanters or van de Graaff accelerators. This includes familiarity with vacuum techniques, high current power supplies and high voltage power supplies. At least 1 year of data analysis experience for data derived from nuclear radiation detectors. (one required)**
2. **Physicist/Materials Scientist - Must have a Ph.D. in Physics or Materials Science with a minimum of 4 years of experience with vacuum deposition of thin-films, associated vacuum techniques, and thin-film characterization methods such as optical microscopy, SEM, x-ray spectroscopy, or Rutherford Backscattering.**
3. **\*Electrical Engineer - Must have a Ph.D. in Electrical Engineering and 10 years experience in thin-film deposition of electronic materials, RF characterization of RF components, RF circuit design, and fabrication of prototype RF circuits using thin-film materials generated in-house. (one required)**
4. **Physicist/Electrical Engineer - Must have a Masters degree in Physics or Electrical engineering and 6 years experience with laser-based optical systems and their application to thin-film deposition and laser machining. Required skills include the ability to design, build and operate specific laser systems for thin0film deposition and direct write of electrical circuits.**
5. **Technician – Non-degreed technician to support microelectronics fabrication facility and support of electrical devices including microwave components and magneto electronics structures.**
5. **Junior Technician – Non-degreed student for data entry and technical support.**

**\* Key Personnel in accordance with Paragraph H-2.**

**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> 001AA		<b>B. EXHIBIT</b> A		<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____				
<b>D. SYSTEM / ITEM</b> Thin Films			<b>E. CONTRACT / PR NO.</b> N00173-00-R-HA07		<b>F. CONTRACTOR</b>			
<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> MONTHLY COST REPORT			<b>3. SUBTITLE</b>				
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> NRL CODE 6325			
<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> Mthly	<b>12. DATE OF FIRST SUBMISSION</b> 45 DAC		<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> 15	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> 30 Days Thereafter					
<b>16. REMARKS</b>			<b>15. TOTAL</b>					
<p>THESE REPORTS SHALL INCLUDE REPORTS OF ALL EXPENDITURES (PERSONS, HOURS WPKED, COST); MATERIALS DESCRIPTIONS, COST AND USE ON CONTRACT); AND TRAVEL (TRAVELERS' NAME, DATE OR TRIP).</p>			CODE 6325			1		
			CODE 6370			1		
			1		1			

  

<b>1. DATA ITEM NO.</b> A002		<b>2. TITLE OF DATA ITEM</b> QUARTERLY PROGRESS REPORTS		<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> NRL CODE 6303		
<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> QRTLTY	<b>12. DATE OF FIRST SUBMISSION</b> 105 DAC		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> 15	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> 90 Days thereafter				
<b>16. REMARKS</b>			<b>15. TOTAL</b>				
<p>THE QUARTERLY REPORTS OF PROGRESS SHALL INCLUDE PROGRESS MADE FOR THE QUARTER AND WORK PLANNED FOR THE FOLLOWING QUARTER.</p>			Code 6325			1	
			Code 6370			1	
			Code 3220			1	
			1		2		

  

<b>G. PREPARED BY</b> HILDA R. ABDON		<b>H. DATE</b> 8/18/00	<b>I. APPROVED BY</b>		<b>J. DATE</b>
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

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

# CONTRACT DATA REQUIREMENTS LIST

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<b>1. DATA ITEM NO.</b> A003	<b>2. TITLE OF DATA ITEM</b> Final Technical Report			<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> NRL CODE 6325		
<b>7. DD 250 REQ</b> DD LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> Once	<b>12. DATE OF FIRST SUBMISSION</b> 60 After Completion		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b>	<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A		<b>a. ADDRESSEE</b>			
<b>16. REMARKS</b>  THIS REPORT SHALL BE SUBMITTED TO THE COR WITHIN 60 DAYS AFTER COMPLETION OF THE CONTRACT. THIS REPORT SHALL INCLUDE A COMPREHENSIVE INTERPRETATION OF FINDINGS IN THIS CONTRACT.					<b>b. COPIES</b>		
					Draft	<b>Final</b>	
						Reg	Repro
						1	
							1
					<b>15. TOTAL</b> →		
<b>1. DATA ITEM NO.</b> A004	<b>2. TITLE OF DATA ITEM</b> CONTRACTOR-ON-SITE LABOR REPORT			<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data Acquisition Document No.)</b>			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> NRL CODE 6303		
<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> MONTHLY	<b>12. DATE OF FIRST SUBMISSION</b> 30 DAC		<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b>	<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> 5th Day Each Month		<b>a. ADDRESSEE</b>			
<b>16. REMARKS</b>  THE CONTRACTOR SHALL PROVIDE A MONTHLY CONTRACTOR ON-SITE LABOR REPORT BY THE 5TH WORKDAY OF EACH MONTH FOR THE PRECEDING MONTH. THE REPORT MUST INCLUDE THE FF DATA:  1) Reporting Period: Contract No.: Contract Value: Current Funding: Date Submitted:  2) Labor (including Subcontractors) - Show employee's name and number of hours worked on site at NRL. If the contractor employees worked on multiple tasks (as defined by the COR), the number of hours worked/each task must be shown separately.					<b>b. COPIES</b>		
					Draft	<b>Final</b>	
						Reg	Repro
						1	
							1
							1
					<b>15. TOTAL</b> →		
<b>G. PREPARED BY</b> HILDA R. ABDON		<b>H. DATE</b> 8/18/00	<b>I. APPROVED BY</b>		<b>J. DATE</b>		

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<b>D. SYSTEM / ITEM</b> Thin Films	<b>E. CONTRACT / PR NO.</b> N00173-00-R-HA07	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A005	<b>2. TITLE OF DATA ITEM</b> Report of Composition and Composition/ Depth	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> NRL CODE 6325
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<b>7. DD 250 REQ</b> LT	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> As Required	<b>12. DATE OF FIRST SUBMISSION</b> N/A	<b>14. DISTRIBUTION</b>	
<b>8. APP CODE</b>		<b>11. AS OF DATE</b> N/A	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> N/A	<b>a. ADDRESSEE</b>	
				<b>b. COPIES</b>	
				Draft	Final
				Reg	Repro

<b>16. REMARKS</b>  THE CONTRACTOR SHALL PROVIDE REPORTS OF COMPOSITION AND COMPOSITION DEPTH PROFILES FOR ALL SPECIMENS SUBMITTED FOR ANALYSIS IN TASK . THE CONTRACTOR SHALL PROVIDE SPECIMEN RESULTS WITHIN ONE WEEK OF RECEIPT OF SPECIMEN.	<b>15. TOTAL</b> →
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<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b>	<b>2. TITLE OF DATA ITEM</b>	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b>
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<b>7. DD 250 REQ</b>	<b>8. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b>	<b>12. DATE OF FIRST SUBMISSION</b>	<b>14. DISTRIBUTION</b>	
<b>8. APP CODE</b>		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>	<b>a. ADDRESSEE</b>	
				<b>b. COPIES</b>	
				Draft	Final
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