

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 3 PAGES
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 06/19/07	4. REQUISITION/PURCHASE REQ. NO. 67-0822-07	5. PROJECT NO. (If applicable)	
6. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE. SW WASHINGTON, DC 20375-5320		CODE N00173	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)	9A. AMENDMENT OF SOLICITATION NO. N00173-07-R-JR02
					9B. DATED (SEE ITEM 11) 05/14/07
					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 2 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 _____ copies to the issuing office.

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

See Pages 2 and 3.

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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		_____ (Signature of Contracting Officer)	

The purpose of this amendment is to revise the Statement of Work (SOW) and Sections H-3 and L-13.

1. The Statement of Work (SOW) is revised as follows:

i. Revise paragraph 3 of Section 1.0, Introduction, as follows:

“ The Branch maintains several major experimental facilities and a number of smaller scale experiments. Much of the theoretical and computational research supports these experiments. The Branch currently has two ultrashort laser sources: the Tabletop Terawatt (T^3) laser, and the Ten-Hertz Femtosecond laser (TFL). The T^3 laser currently produces a 400 fs long pulse at 1.054 μm wavelength with pulse energy of 5 joules and is used for ultra intense laser propagation studies and laser-driven accelerators. The TFL laser currently produces a train of 50 fsec, 50 mJ, 0.8 μm pulses at a pulse repetition rate of 10 Hz, and will primarily be used to study laser propagation in the atmosphere. Construction of another major ultrashort pulse laser facility is currently under consideration. The Branch has a number of CW, kW-class fiber lasers for atmospheric propagation experiments. and the PHAROS laser. The Branch also has a 4.5 MeV RF electron gun that is co-located with the ultrashort pulse laser experiments. A separate facility houses several major high power microwave experiments. ~~and the PHAROS laser.~~ The microwave sources include an X-band magnicon, an active pulse compression experiment, and a high average power fixed frequency gyrotron. The gyrotron source is primarily used for materials processing applications. ~~The PHAROS laser can deliver more than 1 kilojoule of laser energy in a pulse length of several nanoseconds and is primarily used for pulsed x-ray and shock physics studies.~~”

ii. Revise Section 3.5 as follows:

“ 3.5 High Power Microwave, Millimeter-Wave, and Terahertz Sources and Applications:

The Branch has high-power sources of microwaves and millimeter waves that have widespread applications such as testing of accelerator modules in the X-band regime, for materials synthesis and processing of ceramic materials. Of particular interest is the use of focusable millimeter waves to provide localized heating for bonding ceramics and other advanced materials. High average power terahertz sources are of interest for remote detection of improved explosive devices (IED) and advanced material processing applications. The contractor will provide support for the design and operation of experiments on the millimeter wave processing of ceramics and other materials and the acquisition and analysis of data. The contractor will also propose and evaluate potential material processing or other applications of millimeter wave and magnicon sources.”

2. Revise Section H-3, LEVEL OF EFFORT, as follows:

i. Revise paragraphs (a) and (b) as follows:

“(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be **15,000** total hours of direct labor for the base year, and each option year, if exercised, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.”

(b) The level of effort for this contract shall be expended at an average rate of **1,250** hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract. “

ii. Revise paragraph (k), as follows:

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

<u>Labor Category</u>	<u>BASE</u>	<u>OPT 1</u>	<u>OPT 2</u>	<u>OPT 3</u>	<u>OPT4</u>
Principal Research Sci/Engineer	4000	4000	4000	4000	4000
Senior Research Sci/Engineer	4000	4000	4000	4000	4000
Research Sci/Engineer	3000	3000	3000	3000	3000
Technician	3000	3000	3000	3000	3000
Office Automation Assistant	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>	<u>1000</u>
TOTAL LEVEL OF EFFORT	15000	15000	15000	15000	15000

“

3. Revise Section L-13, paragraph (c), as follows:

“(c) The following Travel and Material estimates are for evaluation purposes only. The Government estimates the travel and material costs for this effort to be as shown in the matrix below.

	BASE	OPTION 1	OPTION 2	OPTION 3	OPTION 4
Materials	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Travel	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000

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