

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE PAGE OF PAGES  
1 1

2. AMENDMENT/MODIFICATION NO. <b>A505</b>	3. EFFECTIVE DATE <b>See Block 16C</b>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY <b>U.S. Department of Energy Brookhaven Site Office 53 Bell Avenue, Building 464 Upton, NY 11973-5000</b>	CODE <b>06005</b>	7. ADMINISTERED BY (If other than Item 6) Code	<b>06005</b>

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) <b>Brookhaven Science Associates, LLC 40 Brookhaven Avenue Building 460 Upton, New York 11973-5000</b>	<input checked="" type="checkbox"/>	9.A. AMENDMENT OF SOLICITATION NO.
		9.B. DATED (SEE ITEM 11)
	<input checked="" type="checkbox"/>	10.A. MODIFICATION OF Contract/Order NO. <b>DE-AC02-98CH10886</b>
		10.B. DATED (SEE ITEM 13) <b>01/05/1998</b>
CODE N/A	FACILITY CODE N/A	

**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 ACKNOWLEDGEMENT 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 you 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)

See attached financial worksheet.

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

<input type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>Mutual agreement of the parties</b>
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not  is required to sign this document and return 1 copies to the issuing office.

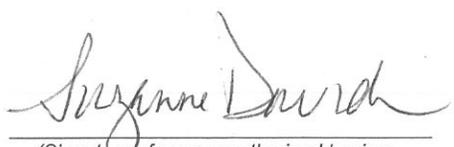
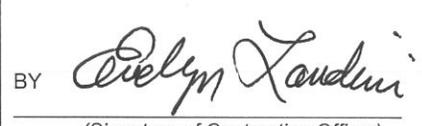
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section heading, including solicitation/contract subject matter where feasible.)

This Modification is issued to reflect the de-obligation of American Recovery and Reinvestment Act of 2009 funds under Treasury Accounting Symbol 89-09/10-0227 in the amount of \$1,196.23. Accordingly, Section C.6.4 - Recovery Act Project Category 4: "Nuclear Physics" has been revised to reflect the de-obligation of funds in the amounts of \$1,196.23 from Nuclear Science Workforce to reflect the close-out of all actions provided under Work Authorizations KB/CH13/9/ARRA-5.

**Attachments:**

Section C.6.4, Recovery Act Project Category 4: Nuclear Physics

- Nuclear Science Workforce
- Financial Worksheet

15A. NAME AND TITLE OF SIGNER (Type or print) <b>Suzanne M. Davidson Chief Financial Officer</b>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Evelyn Landini Contracting Officer</b>
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED <b>11/29/12</b>	16C. DATE SIGNED <b>11/30/12</b>
 (Signature of person authorized to sign)	BY  (Signature of Contracting Officer)

**1. Nuclear Science Workforce (\$1.808M)**

**Statement of Work:** These funds (\$1,400,000) are provided under KB-03-01-04-2 for FWP#22675 entitled "Neutron Cross Section Covariances for the ENDF/B-VII Library." The Principal Investigator is Pavel Oblozinsky. The project period is 09/2009 to 09/2012.

These funds (\$408,000) are provided under KB-04-01-02-2 for FWP#22555 entitled, "Use of Covariances in a Consistent Data Assimilation for Improvement of Basic Nuclear Parameters in Nuclear Reactor Applications: From Meters to Femtometers." The Principal Investigator is Michael Herman. The project period is 10/2009 to 09/2012.

Rev 01: Transfers obligated funds from KB-03 to KB-04 in the amount of \$241,281.55 and authorizes expenditure. The new totals are as follows:

- KB-03 \$1,158,718.45
- KB-04 \$649,281.55

Rev 02: In FY12, funds in the amount of \$1,196.23 were withdrawn to reflect the de-obligation and closeout of all actions provided under Work Authorization #KB/CH13/9/ARRA-5.

Accordingly, the final obligated amount of the project is \$1,806,803.77.

*The specific Contractor Recovery Act Statement of Work, Milestones, Outcomes and Measures, and Deliverables funded by this modification are identified in the following referenced Work Authorization:*

<b>Work Authorization Number</b>	<b>Work Authorization Title</b>
KB/CH13/9/ARRA-5, Rev 01 & Rev 02 Project Code 2005270	Nuclear Physics – Nuclear Science Workforce

D. The work described above shall be performed using funds obligated under this contract, which have been appropriated under the Recovery Act of 2009, Pub. L. 111-5, and as such, is subject to the special statutory conditions and the additional contractual terms and conditions that are listed in paragraph E below and the changes made to Sections E and G of the contract pertaining to the Recovery Act. The funds obligated hereunder shall only be used to accomplish the work as set forth in paragraph C. above and may not be used for any other purpose without the prior written consent of the Contracting Officer.

E. The Contractor shall complete all Recovery Act Work, included within this work scope, in accordance with Recovery Act requirements, including the required completion dates specified therein, and by the completion date identified in the approved work authorization for the activity.