

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE PAGE OF PAGES  
1 | 2

2. AMENDMENT/MODIFICATION NO. <b>A349</b>	3. EFFECTIVE DATE <b>See Block 16C</b>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Brookhaven Site Office U.S. Department of Energy 53 Bell Avenue, Building 464 Upton, NY 11973	CODE 06005	7. ADMINISTERED BY (If other than Item 6) Code Brookhaven Site Office U.S. Department of Energy 53 Bell Avenue, Building 464 Upton, NY 11973	06005

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) Brookhaven Science Associates, LLC Brookhaven National Laboratory Building 185, PO Box 5000 Upton, New York 11973-5000	(✓)	9.A. AMENDMENT OF SOLICITATION NO.
		9.B. DATED (SEE ITEM 11)
	X	10.A. MODIFICATION OF Contract/Order NO. <b>DE-AC02-98CH10886</b>
		10.B. DATED (SEE ITEM 13) <b>01/05/1998</b>
CODE 027579460	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)  
N/A

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

	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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>Mutual agreement of the parties.</b>
	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.)**

The purpose of this modification is to incorporate administrative changes to Section C.6 – Recovery Act Projects as set forth on the following page.

15A. NAME AND TITLE OF SIGNER (Type or print) Suzanne M. Davidson Chief Financial Officer	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Evelyn J. Landini Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)
15C. DATE SIGNED 12/2/10	16C. DATE SIGNED 12/03/10

Block 14 Continued:

The details of this modification are as follows:

- 1. Section C.6.2 – Recovery Act Projects Category 2:** Replace the GPP page of this section with the attached revised page which accomplishes the following: The dollar amounts for Item 1, Mission Critical Roofing and Item 2, Mission Critical Mechanical have been revised to reflect a transfer of funds in the amount of \$290,000.00 from Item 1 to Item 2. As a result, there is no change to the total amount for GPP Project Code 2005380.
- 2. Section C.6.4 – Recovery Act Project Category 1:** Replace the first page of this section with the attached revised page which accomplishes the following: Project 1, Phenix Silicon Vertex has been revised to indicate a change in Block 13 (Expected Completion Date) per Work Authorization Rev. 03.
- 3. Clause I.139 – Obligation of Funds :** The first sentence of paragraph (a) is revised to read as follows: “The amount presently obligated by the Government with respect to this Contract is **\$6,563,042,307.07**”
- 4.** The following is a history of the change in the obligated amount since the last Modification that updated Clause I.139.

<b>PRIOR OBLIGATION M342</b>	\$6,557,666,441.14
INCREASE IN MOD A343	\$560,897.29
INCREASE IN MOD A344	\$48,543.69
DECREASE IN MOD A345	-\$2,646.80
INCREASE IN MOD A346	\$340,291.00
INCREASE IN MOD A347	\$75,000.00
INCREASE IN MOD A348	<u>\$4,353,780.75</u>
<b>CURRENT TOTAL OBLIGATION:</b>	<b>\$6,563,042,307.07</b>

**Attachments:**

- Page 1 of Section C.6.2 - Recovery Act Projects Category 2: Science Laboratory Infrastructure (SLI)
- Page 1 of Section C.6.4 – Recovery Act Projects Category 4: Nuclear Physics (NP)

**C.6.2 – Recovery Act Project Category 2:  
 Science Laboratories Infrastructure (SLI)**

- A. The American Recovery and Reinvestment Act of 2009 funds obligated under this Category in FY 2009 are specified below in Section C.
- B. Clause I.139 DEAR 970.5232-4 “Obligation of Funds” has been adjusted accordingly.
- C. The specific work funded included within this work scope is as follows:

**Science Laboratories Infrastructure - General Plant Projects (GPP)**

**Statement of Work**

**1. Mission Critical Building Roofing (TEC \$8.710M)**

These funds are provided under KG09: this project will re-roof several Mission Critical science and utility buildings. The buildings include Medical (490), Physics (510), Instrumentation (535), Light Source (725), Collider-Accelerator (several buildings), Firehouse (599), and Water Plant (624).

Rev 03: This revised Work Authorization changes the Performance Period Covered by Funds date to: 02/17/09 - 09/30/10 to reflect the correct date Recovery Act funding expires for obligation.

Rev 04: This revised Work Authorization reduces the Mission Critical Roofing by \$290,000.00.

**2. Mission Critical Building Mechanical & Electrical Upgrades TEC \$7.290M)**

These funds are provided under KG09; this project will upgrade the HVAC in portions of several Mission Critical buildings used by BNL's science programs. Included will be the replacement of worn-out air handlers and the removal and replacement of highly flammable polystyrene duct insulation to reduce potential fire hazards. Aged and over-dutied electrical equipment will be replaced. In addition, several elevators will also be rehabilitated and brought up to current standards. The buildings are all Mission Critical and include Biology (463), Physics (510), Central Scientific Computing (515) Instrumentation/NSLS (535), Chemistry (555), and Isotope Research (801).

Rev 03: This revised Work Authorization changes the Performance Period Covered by Funds date to: 02/17/09 - 09/30/10 to reflect the correct date Recovery Act funding expires for obligation. Additionally, the Expected Completion Date changed from 9/30/10 to 11/30/10 to accurately reflect the completion of the project.

Rev 04: This revised Work Authorization transfers \$290,000.00 to the Mission Critical Building mechanical & electrical Upgrades.

**3. Chemistry, Bldg 555, Fire Safety Corrections (TEC \$2.5M)**

These funds are provided under KG09; the Mission Critical Chemistry building, B/555, will have fire barrier established around required building fire zones, vertical fire separations will be provided, and automatic fire sprinklers will be provided throughout the unsprinklered 2/3 of the building.

*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>
KG/CH13/9 : Rev01, Rev02, Rev 03, Rev 04 Project Code 2005380	Science Laboratories Infrastructure - General Plant Projects (GPP)

**C.6.4–Recovery Act Project Category 4:  
 Nuclear Physics (NP)**

- A. The American Recovery and Reinvestment Act of 2009 funds obligated under this Category in FY 2009 and FY 2010 are specified below in Section C.
- B. Clause I.139 DEAR 970.5232-4 “Obligation of Funds” has been adjusted accordingly.
- C. The specific work funded under this Category is as follows:

<p><b><u>1. PHENIX Silicon Vertex MIE (TEC \$.250M)</u></b></p> <p><b><u>Statement of Work:</u></b> These funds are provided under KB-02-01-02-1 EQU to advance funding for equipment purchases for the PHENIX Silicon Vertex Tracker MIE (71RD) project, including data acquisition crates for front-end modules for strip detectors; data collection modules, and installation fixtures and external cooling system.</p> <p>Per Work Authorization, Rev 02: Attachment A, “Contractor Recovery Act Performance Requirements”, has been revised.</p> <p>Per Work Authorization, Rev 03, Block 13, “Expected Completion Date” is revised to 12/2010 in order to reflect the correct date of project completion.</p> <p><i>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:</i></p>	
<b>Work Authorization Number</b>	<b>Work Authorization Title</b>
KB/CH13/9/ARRA-1 and Rev 01, Rev 02, and Rev 03 Project Code 2005200	Nuclear Physics – PHENIX Silicon Vertex MIE

<p><b><u>2. PHENIX Forward Vertex Detector MIE (TEC \$.967M)</u></b></p> <p><b><u>Statement of Work:</u></b> These funds are provided under KB-02-01-02-1 EQU to advance funding for the purchasing of two silicon end caps for the PHENIX Forward Vertex Detector MIE (81SF)</p> <p><i>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:</i></p>	
<b>Work Authorization Number</b>	<b>Work Authorization Title</b>
KB/CH13/9/ARRA-2 and Rev 01 and Rev 02 Project Code 2005210	Nuclear Physics – PHENIX Forward Vertex Detector MIE