The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers is extended, or 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.

See AFP dated 5/24/2017 located at BHSO UPTON NY 119735000

BROOKHAVEN SCIENCE ASSOCIATES, LLC
Attn: Brian Boyle
BROOKHAVEN NATIONAL LABORATORY
BLDG. 460, PO BOX 5000
UPTON NY 119735000

CODE 027579460

The above numbered solicitation is amended as set forth in Item 14. The changes set forth in Item 14 are made in the contract order no. in Item 10A.

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). This supplemental agreement is entered into pursuant to authority of:

Obligation of Funds clause I.152 DEAR 970.5232-4

10A. MODIFICATION OF CONTRACT/ORDER NO.
DE-SC0012704

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

A. THE ABOVE NUMBERED CONTRACT/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:

X Obligation of Funds clause I.152 DEAR 970.5232-4

15A. CONTRACTOR/OFFEROR

Evelyn J. Landini

15B. CONTRACTOR/OFFEROR

Evelyn J. Landini

15C. DATE SIGNED

05/31/2017

16A. NAME AND TITLE OF_contracting officer (Type or print)

Evelyn J. Landini

16B. UNITED STATES OF AMERICA

Signature on File

16C. DATE SIGNED

05/31/2017

16D. SIGNER (Specify type of modification and authority)

Obligation of Funds clause I.152 DEAR 970.5232-4

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

10A. MODIFICATION OF CONTRACT/ORDER NO.
DE-SC0012704

10B. DATED (SEE ITEM 13)
12/22/2014

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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)

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:

Obligation of Funds clause I.152 DEAR 970.5232-4

D. OTHER (Specify type of modification and authority)

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

12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Increase: $52,383,280.41

See AFP dated 5/24/2017 located at BHSO

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

Tax ID Number: 11-3403915

DUNS Number: 027579460

Total Amount changed from $1,614,216,330.66 to $1,666,599,611.07

Obligated Amount for this modification: $52,383,280.41

13A. AMENDMENT NO.

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

14B. AMENDMENT/MODIFICATION NO.

17SC001237

14C. EFFECTIVE DATE

See Block 16C

14D. DATE SIGNED

05/31/2017

15A. NAME AND TITLE OF SIGNER (Type or print)

Evelyn J. Landini

15B. CONTRACTOR/OFFEROR

Evelyn J. Landini

15C. DATE SIGNED

05/31/2017

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Evelyn J. Landini

16B. UNITED STATES OF AMERICA

Signature on File

16C. DATE SIGNED

05/31/2017

16D. SIGNER (Specify type of modification and authority)

Obligation of Funds clause I.152 DEAR 970.5232-4

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

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Evelyn J. Landini

16B. UNITED STATES OF AMERICA

Signature on File

16C. DATE SIGNED

05/31/2017

16D. SIGNER (Specify type of modification and authority)

Obligation of Funds clause I.152 DEAR 970.5232-4

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

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Evelyn J. Landini

16B. UNITED STATES OF AMERICA

Signature on File

16C. DATE SIGNED

05/31/2017

16D. SIGNER (Specify type of modification and authority)

Obligation of Funds clause I.152 DEAR 970.5232-4

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.
### Payment:
- Payment - Direct Payment from U.S. Dept of Treasury
- FOB: Destination
- Period of Performance: 01/05/2015 to 01/04/2020

Change Item 00001 to read as follows (amount shown is the total amount):

<table>
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<tr>
<th>ITEM NO.</th>
<th>SUPPLIES/SERVICES</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001</td>
<td>M&amp;O contract for BNL</td>
<td></td>
<td></td>
<td></td>
<td>1,666,599,611.07</td>
</tr>
</tbody>
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