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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 2 |
| 2. AMENDMENT/MODIFICATION NO. 0403 | 3. EFFECTIVE DATE See Block 16C | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue Idaho Falls ID 83415 | CODE 00701 | 7. ADMINISTERED BY (If other than Item 6) Idaho Operations U.S. Department of Energy Idaho Operations 1955 Fremont Avenue MS 1221 Idaho Falls ID 83415 | CODE 00701 |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) BATTELLE ENERGY ALLIANCE LLC ATTN ADAM ANDERSEN PO BOX 1625 IDAHO FALLS ID 83415 | | (x) | 9A. AMENDMENT OF SOLICITATION NO. |
| CODE 152020629 | | FACILITY CODE | 9B. DATED (SEE ITEM 11) |
| | | x | 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC07-05ID14517 |
| | | | 10B. DATED (SEE ITEM 13) 11/09/2004 |

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) Net Increase: \$13,229,912.81
Fin Plan 13, July 2017

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

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| 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: |
| X | D. OTHER (Specify type of modification and authority) DEAR 970.5232-4 "Obligation of Funds" |

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.)

Tax ID Number: 68-0588324

DUNS Number: 152020629

PURPOSE OF THIS MODIFICATION IS TO: Obligate funding for Strategic Partnerships Projects under FIN PLAN 13, July, 2017. See Information Pages for specific modification and obligation amounts.

All other terms and conditions remain unchanged.

Continued ...

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.

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| 15A. NAME AND TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Jeffrey C. Fogg | |
| 15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA Signature on File (Signature of Contracting Officer) | 16C. DATE SIGNED 07/31/2017 |

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-AC07-05ID14517/0403

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NAME OF OFFEROR OR CONTRACTOR
BATTELLE ENERGY ALLIANCE LLC

| ITEM NO. (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|-----------------|---|-----------------|-------------|-------------------|-------------------|
| 00001 | Payment: OR for Idaho U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4368 Oak Ridge TN 37831 FOB: Destination Period of Performance: 11/09/2004 to 09/30/2019 Change Item 00001 to read as follows (amount shown is the total amount): MANAGEMENT AND OPERATIONS OF THE INL Line item value is:: \$12,100,000,000.00 Incrementally Funded Amount: \$10,522,167,439.79 | | | | 12,100,000,000.00 |

SECTION B – SUPPLIES OR SERVICES AND PRICES/COSTS

Clause B. 5, Obligation of Funds is revised to read as follows:

The amount presently obligated under this Contract is as follows:

The amount presently obligated under this Contract is as follows: Details regarding the obligational authority for this modification are provided separately in the FIN PLAN 13, July, 2017.

Contract DE-AC07-05ID14517

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| Funds Obligated by Contract Award | \$ | - |
| FY 05 Funding Mod Totals 05-01 thru 05-15 | \$ | 623,283,031.13 |
| FY 06 Funding Mod Totals 06-01 thru 06-27 | \$ | 774,328,122.14 |
| FY 07 Funding Mod Totals 07-01 thru 07-14 | \$ | 975,295,354.03 |
| FY 08 Funding Mod Totals 08-01 thru 08-22 | \$ | 740,655,029.30 |
| FY 09 Funding Mod Totals 09-01 thru 22 to include RA 1 thru 6 | \$ | 819,161,791.66 |
| FY 10 Funding Mod Totals 10-01 thru 24 to include RA 1 thru 12 | \$ | 843,176,912.40 |
| FY 11 Funding Mod Totals 11-01 thru 21 to include RA 1 and 2 | \$ | 871,596,269.64 |
| FY 12 Funding Mod Totals 12-01 thru 23 to include RA 1 and 3 | \$ | 805,795,946.74 |
| FY 13 Funding Mod Totals 13-01 thru 18 to include RA 1-3 | \$ | 712,642,634.14 |
| FY 14 Funding Mod Totals 14-01 thru 23 | \$ | 811,803,619.42 |
| FY 15 Funding Mod Totals 15-01 thru 17 to include RA 15-01 | \$ | 860,410,525.97 |
| FY 16 Funding Mod Totals 16-01 thru 22 | \$ | 977,579,395.50 |
| Funds Obligated by Modification No. 380 Fin Plan 17/01 | \$ | 129,698,184.76 |
| Funds Obligated by Modification No. 381 Fin Plan 17/01 - SPP Funding | \$ | 725,400.00 |
| Funds Obligated by Modification No. 382 Fin Plan 17/02 | \$ | 5,760,602.97 |
| Funds Obligated by Modification No. 383 Fin Plan 17/02 - SPP Funding | \$ | 13,381,745.25 |
| Funds Obligated by Modification No. 384 Fin Plan 17/03 | \$ | 9,739,499.00 |
| Funds Obligated by Modification No. 385 Fin Plan 17/03 - SPP Funding | \$ | 9,625,407.75 |
| Funds Obligated by Modification No. 386 Fin Plan 17/04 & 17/05 | \$ | 256,466,709.87 |
| Funds Obligated by Modification No. 387 Fin Plan 17/04 & 17/05 - SPP Fund | \$ | 13,404,458.99 |
| Funds Obligated by Modification No. 388 Fin Plan 17/06 & 17/07 | \$ | 6,311,214.06 |
| Funds Obligated by Modification No. 389 Fin Plan 17/06 & 17/07 - SPP Fund | \$ | 65,065,139.67 |
| Funds Obligated by Modification No. 391 Fin Plan 17/08 | \$ | 7,533,531.37 |

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| Funds Obligated by Modification No. 392 Fin Plan 17/08 - SPP Funding | \$ | 14,369,252.59 |
| Funds Obligated by Modification No. 396 Fin Plan 17/09 & 17/10 | \$ | 7,048,649.54 |
| Funds Obligated by Modification No. 397 Fin Plan 17/09 & 17/10 SPP Funding | \$ | 16,374,224.09 |
| Funds Obligated by Modification No. 398 Fin Plan 17/11 | \$ | 845,599.00 |
| Funds Obligated by Modification No. 399 Fin Plan 17/11 SPP Funding | \$ | 6,351,291.81 |
| Funds Obligated by Modification No. 400 Fin Plan 17/12 | \$ | 102,441,764.78 |
| Funds Obligated by Modification No. 401 Fin Plan 17/12 SPP Funding | \$ | 20,378,852.20 |
| Funds Obligated by Modification No. 402 Fin Plan 17/13 | \$ | 7,687,367.21 |
| Funds Obligated by Modification No. 403 Fin Plan 17/13 SPP Funding | \$ | 13,229,912.81 |
| Total Funds Obligated | \$ | 10,522,167,439.79 |

The following table tracks available budgetary resources for work appropriated under the American Recovery and Reinvestment Act of 2009, Pub. L. 1115 (Recovery Act) and as such is subject to special statutory conditions. Budget Authority in the following table is already included in the total funding table above and is **not** an additional obligation of funds.

| Contract DE-AC07-05ID14517 | Funds Obligated by ARRA Funding | |
|--|--|--------------|
| Funds Obligated by Modification No.141 (RA #1) | \$ | 200,000.00 |
| Funds Obligated by Modification No.143 (RA #2) | \$ | 150,000.00 |
| Funds Obligated by Modification No.144 (RA #3) | \$ | 3,000.00 |
| Funds Obligated by Modification No.147 (RA #4) | \$ | 1,850,000.00 |
| Funds Obligated by Modification No.149 (RA #5) | \$ | 2,353,000.00 |
| Funds Obligated by Modification No.149 (RA #5) | \$ | 1,742,000.00 |
| Funds Obligated by Modification No.151 (RA #6) | \$ | 100,000.00 |
| Funds Obligated by Modification No.154 (RA #1) | \$ | 594,000.00 |
| Funds Obligated by Modification No.157 (RA #2) | \$ | 146,280.00 |
| Funds Obligated by Modification No.162 (RA #3) | \$ | 1,113,136.00 |
| Funds for RA FIN PLAN #4 (Zero dollar no formal modification) | \$ | - |
| Funds Obligated by Modification No.168 (RA #5) | \$ | 6,301,000.00 |
| Funds for RA FIN PLAN #6(Zero dollar no formal modification) | \$ | - |
| Funds De-Obligated by Modification No.171 (RA #7) | \$ | (612.86) |
| Funds De-Obligated by Modification No.175 (RA #8) | \$ | (128,820.06) |
| Funds De-Obligated by Modification No.177 (RA #9) | \$ | (782.29) |

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| Funds Obligated by Modification No.184 (RA #10) | \$ | 526,015.00 |
| Funds Obligated by Modification No.189 (RA #11) | \$ | 25,000.00 |
| Funds Obligated by Modification No.191 (RA #12) | \$ | 782.29 |
| Funds De-Obligated by Modification No.217 (RA #1) | \$ | (17,459.94) |
| Funds De-Obligated by Modification No.220 (RA #2) | \$ | (177.39) |
| Funds De-Obligated by Modification No.225 (RA #1) | \$ | (372.03) |
| Funds for RA FIN PLAN #2 (Zero dollar no formal modification) | \$ | - |
| Funds De-Obligated by Modification No. 245 (RA FIN PLAN #3) | \$ | (69.68) |
| Funds De-Obligated by Modification No. 265 (RA Fin Plan #13/01) | \$ | (244.43) |
| Funds De-Obligated by Modification No. 266 (RA Fin Plan #13/01) | \$ | (2,311.02) |
| Funds De-Obligated by Modification No. 275 (RA Fin Plan #13/02) | \$ | (172.07) |
| Funds De-Obligated by Modification No. 278 (RA Fin Plan #13/03) | \$ | (1,861.47) |
| Funds De-Obligated by Modification No. 345 (RA Fin Plan #15/01) | \$ | (127.13) |
| Total Funds Obligated | \$ | 14,951,202.92 |