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| 2. AMENDMENT/MODIFICATION NO. 1451 | 3. EFFECTIVE DATE See Block 16C | 4. REQUISITION/PURCHASE REQ. NO. 23SC000263 | 5. PROJECT NO. (If applicable) |
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| 6. ISSUED BY SC Oak Ridge Support Center Office of Science - Oak Ridge U.S. Department of Energy P.O. Box 2001 Oak Ridge TN 37831 | CODE 892431 | 7. ADMINISTERED BY (If other than Item 6) PNSO U.S. Department of Energy Pacific Northwest Site Office P.O. Box 350, K9-42 Richland WA 99352 | CODE 06010 |
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| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Battelle Memorial Institute Attn: John M. Robinson P.O. Box 999 ATTN: John M. Robinson MSIN K6-46 RICHLAND WA 99352 | (x) | 9A. AMENDMENT OF SOLICITATION NO. |
| | | 9B. DATED (SEE ITEM 11) |
| | x | 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-76RL01830 |
| | | 10B. DATED (SEE ITEM 13) 12/30/2002 |

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 electronic communication 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 letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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| 12. ACCOUNTING AND APPROPRIATION DATA (If required) | Net Increase: | \$3,870,366.91 |
| 00000-0000-00-000000-00000-0000000-0000000-00000000 | | |

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 data, 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) In accordance with Section I, Clause 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.)

UEI: CWKJEXDG79A7

Non-Appropriated Funding - Pursuant to Article B-2 of the Schedule of contract DE-AC05-76RL01830, the amount obligated by the Department of Energy is increased from \$25,376,134,051.01 to \$25,380,004,417.92, an increase of \$3,870,366.91. This modification results in no other change to the terms and conditions of the subject contract.

Payment:
Fund: 00000 Appr Year: 0000 Allottee: 00 Report
Entity: 000000 Object Class: 00000 Program:
0000000 Project: 0000000 WFO: 0000000 Local Use:
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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) Robin G. Whitney |
| 15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) | 15C. DATE SIGNED |
| | 16B. UNITED STATES OF AMERICA (Signature of Contracting Officer) |
| | 16C. DATE SIGNED 12/21/2022 |