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|---|------------------------------------|---|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 7 |
| 2. AMENDMENT/MODIFICATION NO. 0124 | 3. EFFECTIVE DATE See Block 16C | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY SC Oak Ridge U.S. Department of Energy ORNL Site Office P.O. Box 2008 Oak Ridge TN 37831 | CODE 892431 | 7. ADMINISTERED BY (If other than Item 6) U.S. Department of Energy ORNL Site Office P.O. Box 2008 Oak Ridge TN 37831 | CODE 00516 |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) OAK RIDGE ASSOCIATED UNIVERSITIES, INCORPORATED Attn: Angela Holmberg P.O. BOX 117 OAK RIDGE TN 37831 | | 9A. AMENDMENT OF SOLICITATION NO. (x) | 9B. DATED (SEE ITEM 11) |
| CODE 041152224 FACILITY CODE | | X 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-SC0014664 | 10B. DATED (SEE ITEM 13) 03/10/2016 |

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 Schedule

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). |
| X | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: DEAR 970.5204-2 DOE Directives (DEC 2000) |
| | D. OTHER (Specify type of modification and authority) |

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.)

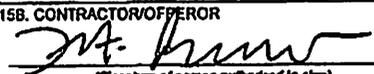
The purpose of this modification is to update and revise Section J - List of Attachments as follows:

A. Attachment D.2 - DOE Directives (List B) List of Applicable Directives. Contract Document Attachment D.2 - DOE Directives (List B) as amended in modification 0110 List of Applicable Directives is hereby deleted in its entirety, and the attached RCN ORAU-010, dated September 20, 2018, is hereby incorporated into the contract.

B. All other terms and conditions remain unchanged.

Payment:

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) Ivan A. Boatner Vice President & General Counsel | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Kenneth Lowell Kimbrough |
| 15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign) | 16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer) |
| 16C. DATE SIGNED 10.10.18 | 16C. DATE SIGNED 10-15-18 |

| | | |
|---|--|----------------------------------|
| DOE Form (04/1991) | | RCN No. ORAU-10 |
| U.S. Department of Energy REQUIREMENTS CHANGE NOTICE | | Page 2 of 7 |
| PROJECT: Contract Baseline Documentation | | LOCATION: Oak Ridge, Tennessee |
| CONTRACTOR: Oak Ridge Associated Universities (ORAU) | | |
| CONTRACT NO.: DE-SC0014664, DEAR 970.5204-2, Laws, Regulations, and DOE Directives (DEC 2000) | | DATE OF CONTRACT: March 10, 2016 |
| <p>This Requirements Change Notice (RCN) No. ORAU-10 incorporates into Section J, Attachment D.2, of Contract No. DE-SC0014664, the attached list of applicable documents, which have been assessed against the terms and conditions of the subject contract in accordance with the above-referenced clause. This is a complete numbered list of administrative requirements and a representation of environment, safety, and health (ES&H) requirements. Information regarding ES&H-related directives and their applicability can only be obtained from specific WSS sets. ES&H-related directives in WSS sets have an ES&H footnote. Changes to Section J, Attachment D.2, are indicated by bold type. Below is a list of the directives incorporated herein:</p> <p style="text-align: center;"><u>EXECUTIVE SUMMARY OF DIRECTIVE CHANGES</u></p> <p><u>ADDITIONS:</u></p> <p><u>DELETIONS:</u></p> <p><u>UPDATES:</u></p> <p><u>ADMINISTRATIVE CORRECTION:</u></p> | | |
| DOE AUTHORIZING SIGNATURE: | | DATE: |
|  Dan Hoag, Contracting Officer's Representative | | 9/20/2018 |

Summary of Changes for RCN-10
Baseline List of Required Compliance Documents

| Directive | Title | Action | Authority |
|---|-------|--------|-----------|
| No New Directives, June 30, 2018 – August 31, 2018 | | | |
| | | | |

**Attachment D
Baseline List of
Required Compliance Documents**

List B - List of Applicable Directives

**DOE Directives
may be found at the following address:
<http://www.directives.doe.gov/>**

| Required Compliance Document | Document Date | Title | Through Change | Notes and Comments |
|--|----------------------|---|-----------------------|---------------------------|
| DOE O 130.1 | 09/29/1995 | Budget Formulation | | |
| DOE O 142.3A, Change 1 | 01/18/2017 | Unclassified Foreign Visitors and Assignments Program | | |
| DOE O 150.1A | 03/31/2014 | Continuity Programs | | |
| DOE O 151.1D | 08/11/2016 | Comprehensive Emergency Management System | | |
| | | | | |
| DOE O 153.1 | 06/27/2007 | Departmental Radiological Emergency Response Assets | | Footnote (4) |
| DOE O 200.1A Change 1 | 01/13/2017 | Information Technology Management | | |
| DOE O 205.1B Administrative Change 3 | 04/29/2014 | Department of Energy Cyber Security Program | | |
| DOE O 206.1 | 01/16/2009 | Department of Energy Privacy Program | | |
| | | | | |
| DOE O 206.2 | 02/19/2013 | Identity, Credential, and Access Management (ICAM) | | |
| DOE O 210.2A | 04/08/2011 | DOE Corporate Operating Experience Program | | |
| DOE O 221.1B | 09/27/2016 | Reporting Fraud, Waste and Abuse to the Office of Inspector General | | |
| DOE O 221.2A | 02/25/2008 | Cooperation with the Office of Inspector General | | |
| DOE O 225.1B | 03/04/2011 | Accident Investigations | | |
| DOE O 227.1A | 12/21/2015 | Independent Oversight Program | | |
| DOE O 231.1B Administrative Change 1 | 11/28/2012 | Environment, Safety and Health Reporting | | |
| DOE O 232.2A | 01/17/2017 | Occurrence Reporting and Processing of Operations Information | | |
| DOE O 241.1B Administrative Change 1 | 04/26/2015 | Scientific and Technical Information Management | | |
| DOE O 243.1B, Administrative Change 1 | 07/08/2013 | Records Management Program | | |
| Compliance Line: Implementation Plan, approved by DOE on 06/26/2012. | | | | |
| DOE O 252.1A, Administrative Change 1 | 03/12/2013 | Technical Standards Program | | |
| DOE O 350.1, Change 5 | 09/30/2014 | Contractor Human Resource Management Programs | | |

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<http://www.directives.doe.gov/>

| | | | |
|---|------------|--|---|
| DOE O 410.2, Administrative Change 1 | 04/10/2014 | Management of Nuclear Materials | |
| DOE O 412.1A | 05/21/2014 | Work Authorization System | |
| DOE O 413.1B | 10/28/2008 | Internal Control Program | Footnote (4) |
| DOE O 413.3B Change 4 | 11/29/2010 | Program and Project Management for the Acquisition of Capital Assets | |
| DOE O 414.1D Administrative 1 | 05/08/2013 | Quality Assurance | ES&H-related Directive included in WSS. See Footnote (3). |
| DOE O 420.1C, Change 1 | 02/27/2015 | Facility Safety | ES&H-related Directive included in WSS. See Footnote (3). |
| DOE O 435.1, Change 1 | 08/28/2001 | Radioactive Waste Management | ES&H-related Directive included in WSS. See Footnote (3). |
| DOE M 435.1-1, Administrative Change 2 | 06/08/2011 | Radioactive Waste Management Manual | ES&H-related Directive included in WSS. See Footnote (3). |
| DOE O 436.1 | 05/02/2011 | Departmental Sustainability | |
| DOE O 440.2C, Administrative Change 1 | 06/22/2011 | Aviation Management and Safety | ES&H-related Directive included in WSS. See Footnote (1). |
| DOE O 442.1A | 06/06/2001 | Department of Energy Employee Concerns Program | |
| DOE O 442.2, Change 1 | 10/04/2016 | Differing Professional Opinions for Technical Issues Involving Environmental, Safety and Health Technical Concerns | |
| DOE O 443.1B Administrative Change 1 | 04/21/2016 | Protection of Human Research Subjects | |
| DOE P 450.7 | 08/02/2004 | Department of Energy Environment, Safety and Health (ES&H) Goals | |
| DOE O 452.7 | 05/14/2010 | Protection of Use Control Vulnerabilities and Designs | |
| DOE O 458.1, Administrative Change 3 | 01/15/2013 | Radiation Protection of the Public and the Environment | ES&H-related Directive included in WSS. See Footnote (3). |
| DOE O 460.1D | 12/20/2016 | Hazardous Materials Packaging and Transportation Safety | ES&H-related Directive included in WSS. See Footnote (1). |

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<http://www.directives.doe.gov/>

| | | | |
|--|------------|--|---------------|
| DOE O 460.2A | 12/22/2004 | Departmental Materials Transportation and Packaging Management | |
| DOE M 460.2-1A | 06/04/2008 | Radioactive Material Transportation Practices Manual for Use With DOE O 460.2A | Footnote (2). |
| DOE O 470.3C | 11/23/2016 | Design Basis Threat (DBT) Order | |
| DOE O 470.4B, Change 2 | 01/17/2017 | Safeguards and Security Program | |
| DOE O 470.5 | 06/02/2014 | Insider Threat Program | |
| DOE O 470.6, Change 1 | 01/11/2017 | Technical Security Program | |
| DOE O 471.1B | 03/01/2010 | Identification and Protection of Unclassified Controlled Nuclear Information | |
| DOE M 471.3-1, Administrative Change 1 | 01/13/2011 | Manual for Identifying and Protecting Official Use Only Information | |
| DOE O 471.3, Administrative Change 1 | 01/13/2011 | Identifying and Protecting Official Use Only Information | |
| DOE O 471.6, Administrative Change 2 | 05/15/2015 | Information Security | |
| DOE O 472.2, Change 1 | 07/09/2014 | Personnel Security | |
| DOE O 473.3A | 03/23/2016 | Protection Program Operations | |
| DOE O 474.2, Change 4 | 09/13/2016 | Nuclear Material Control and Accountability | |
| DOE O 475.1 | 12/10/2004 | Counterintelligence Program | |
| DOE O 475.2B | 10/03/2014 | Identifying Classified Information | |
| DOE M 481.1-1A Change 1 | 09/28/2001 | Reimbursable Work For Non-Federal Sponsors Process Manual | |
| DOE O 484.1, Administrative Change 2 | 06/30/2014 | Reimbursable Work for the Department of Homeland Security | |
| DOE O 522.1 | 11/03/2004 | Pricing of Departmental Materials and Services | |
| DOE O 534.1B | 01/06/2003 | Accounting | |
| DOE O 551.1D, Change 2 | 08/09/2016 | Official Foreign Travel | |
| DOE 2340.1C | 06/08/1992 | Coordination of General Accounting Office Activities | |

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Required Compliance Documents

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**Work Smart Standards (WSS) Sets
may be found at the following address:
<http://www.ora.gov/orise/wss.htm>**

| Required Compliance Document | Approval Date | Title | Change # Approval Date | Notes and Comments |
|------------------------------|---------------|--|------------------------|--------------------|
| WSS Set 41 | | Oak Ridge Institute for Science and Education (ORISE) Work Smart Standards Set | 02/28/2018 | |

FOOTNOTES:

- (1) This document is not directly applicable to the Contractor; it is included in the list of applicable documents because the Contractor must provide certain information or input to DOE in order for DOE to comply with requirements specified in the document.
- (2) The Contractor does not perform activities which fall within the scope of this directive at this time. If these activities are conducted at some future date, the requirements contained in this document will be applicable to the Contractor and programs to implement the requirements of this document will be established when and if such activities are to be initiated.
- (3) This document is ES&H-related and appears on the current Work Smart Standards Set. In a WSS Set, the document may be referenced in its entirety or only certain chapters, paragraphs, or sections.
- (4) The requirements of this document are applicable; however, specific additional clarification or guidance is required from DOE before such requirements can be implemented in full as indicated in written requests for direction from the Contractor.