

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 0446		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY SC Oak Ridge U.S. Department of Energy ORNL Site Office P.O. Box 2008 Oak Ridge TN 37831		CODE 892431		5. PROJECT NO. (If applicable) 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 378310117		(x)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-SC0014664	
				10B. DATED (SEE ITEM 13) 03/10/2016	
CODE 041152224		FACILITY CODE			

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.
12. ACCOUNTING AND APPROPRIATION DATA (If required)

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) 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) Contract Clause 970.5232-4 and Public Law 95-91

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.)

Management of the Oak Ridge Institute for Science and Education to replace Requirements Change Notice (RCN) ORAU-34 with RCN ORAU-35 Dated February 28, 2025, in Section J, Attachment D.2.

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.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ryan Joseph Fuesting	
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 04/29/2025

Previous edition unusable

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 1	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.	
0446		See Block 16C		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)	
SC Oak Ridge		892431		CODE 00516	
U.S. Department of Energy				U.S. Department of Energy	
ORNL Site Office				ORNL Site Office	
P.O. Box 2008				P.O. Box 2008	
Oak Ridge TN 37831				Oak Ridge TN 37831	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x)		9A. AMENDMENT OF SOLICITATION NO.	
Oak Ridge Associated Universities, Incorporated					
Attn: Angela Holmberg				9B. DATED (SEE ITEM 11)	
P.O. BOX 117					
OAK RIDGE TN 378310117		x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
				DE-SC0014664	
CODE 041152224		FACILITY CODE		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 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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X	D. OTHER (Specify type of modification and authority) Contract Clause 970.5232-4 and Public Law 95-91

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.)

Management of the Oak Ridge Institute for Science and Education to replace Requirements Change Notice (RCN) ORAU-34 with RCN ORAU-35 Dated February 28, 2025, in Section J, Attachment D.2.

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.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Rachel F. Lokitz, Chief Legal and Risk Officer		Judson A. Kingman	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
Rachel F. Lokitz (Signature of person authorized to sign)		(Signature of Contracting Officer)	
15C. DATE SIGNED		16C. DATE SIGNED	
3/26/25			

DOE Form (04/1991)		RCN No. ORAU-35
U.S. Department of Energy REQUIREMENTS CHANGE NOTICE		Page 1 of 8
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-35 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>DOE O 151.1E DOE O 205.1D DOE O 206.2, Change 2 (LtdChg) DOE O 232.2A, Change 1 (MinChg) DOE O 241.1C DOE M 435.1-1, Change 3 (LtdChg) DOE O 435.1, Change 2 (AdminChg) DOE O 443.1C DOE O 472.2A, Change 1 (LtdChg) DOE O 474.2A Change 1 (AdminChg) DOE O 484.1, Change 4 (LtdChg) DOE O 522.1A, Change 1 (LtdChg)</p> <p><u>DELETIONS:</u></p> <p>DOE O 151.1D DOE O 205.1C, Change 1 DOE O 206.2, Change 1 (LtdChg) DOE O 232.2 Change 1 DOE O 241.1B, Change 1 (AdminChg) DOE M 435.1-1, Change 2 (AdminChg) DOE O 435.1, Change 1 DOE O 436.1A DOE O 442.1B DOE O 443.1B, Change 1 DOE O 472.2, Change 2 (PgChg) DOE O 474.2A DOE O 484.1, Change 3 (LtdChg) DOE O 522.1A Change 1 (LtdChg)</p> <p><u>UPDATES:</u></p> <p>WSS Set 45</p> <p><u>IMPLEMENTATION PLANS (REVISED COMPLIANCE STATUS):</u></p> <p>DOE O 243.1C DOE O 471.7</p> <p><u>ADMINISTRATIVE CORRECTION:</u></p>		
DOE AUTHORIZING SIGNATURE:  Michele Branton, Contracting Officer's Representative		DATE: April 29, 2025

Directive	Title	Action	Authority
DOE O 151.1E	Comprehensive Emergency Management System	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 151.1D	Comprehensive Emergency Management System	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 205.1D	Department of Energy Cyber Security Program	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 205.1C, Change 1	Department of Energy Cyber Security Program	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 206.2, Change 2 (LtdChg)	Identity, Credential, and Access Management (ICAM)	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 206.2, Change 1 (LtdChg)	Identity, Credential, and Access Management (ICAM)	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 232.2A, Change 1 (MinChg)	Occurrence Reporting and Processing of Operations Information	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 232.2 Change 1	Occurrence Reporting and Processing of Operations Information	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 241.1C	Scientific and Technical Information Management	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/06/2025
DOE O 241.1B	Scientific and Technical Information Management	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/06/2025
DOE M 435.1-1, Change 3 (LtdChg)	Radioactive Waste Management Manual	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE M 435.1-1, Change 2	Radioactive Waste Management Manual	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 435.1 Change 2 (AdminChg)	Radioactive Waste Management	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 435.1 Change 1	Radioactive Waste Management	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 436.1A	Departmental Sustainability	Deletion	SC-OSO email dated 02/05/2025 ORAU email dated 02/05/2025
DOE O 442.1B	Department of Energy Employee Concerns Program	Deletion	ORISE Contract Modification 0441
DOE O 443.1C	Protection of Human Research Subjects	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 443.1B, Change 1	Protection of Human Research Subjects	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 472.2A Change 1 (LtdChg)	Personnel Security	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 472.2 Change 2 (PgChg)	Personnel Security	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 474.2A, Change 1 (AdminChg)	Nuclear Material Control and Accountability	Addition	SC-OSO email dated 12/06/2024 ORAU email dated 01/09/2025
DOE O 474.2A	Nuclear Material Control and Accountability	Deletion	SC-OSO email dated 12/06/2024 ORAU email dated 01/09/2025

DOE O 484.1 Change 4 (LtdChg)	Reimbursable Work for the Department of Homeland Security	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 484.1 Change 3 (LtdChg)	Reimbursable Work for the Department of Homeland Security	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 522.1A Change 1(LtdChg)	Pricing of Departmental Materials and Services	Addition	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025
DOE O 522.1A	Pricing of Departmental Materials and Services	Deletion	SC-OSO email dated 01/07/2025 ORAU email dated 02/05/2025

Attachment D
Baseline List of
Required Compliance Documents

List B - List of Applicable Directives

<p style="text-align: center;">DOE Directives may be found at the following address: http://www.directives.doe.gov/</p>				
Required Compliance Document	Document Date	Title	Through Change	Notes and Comments
DOE O 130.1	09/29/1995	Budget Formulation		
DOE O 142.3B Change 1 (LtdChg)	03/02/2022	Unclassified Foreign Visitors and Assignments Program		
DOE O 150.1B	12/21/2021	Continuity Programs		
DOE O 151.1E	10/28/2024	Comprehensive Emergency Management System		
Compliance Line: Implementation Plan submitted by May 7, 2025				
DOE O 153.1A	11/17/2022	Departmental Nuclear Emergency Support Team Capabilities		
DOE O 200.1A Change 2 (LtdChg)	08/11/2023	Information Technology Management		
DOE O 205.1D	04/30/2024	Department of Energy Cyber Security Program		
DOE O 206.1A	01/19/2024	Department of Energy Privacy Program		
DOE O 206.2 Change 2 (LtdChg)	10/28/2024	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 Change 1 (AdminChg)	01/21/2020	Independent Oversight Program		
DOE O 231.1B Change 1 (AdminChg)	11/28/2012	Environment, Safety and Health Reporting		
DOE O 232.2A Change 1 (MinChg)	10/04/2019	Occurrence Reporting and Processing of Operations Information		
DOE O 240.1	04/09/2024	Requesting Access to Electronic Records, Electronic Communications, and Access Control Records		
DOE O 241.1C	10/28/2024	Scientific and Technical Information Management		
Compliance Line: Implementation Plan submitted by May 7, 2025				

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DOE O 243.1C	02/07/2022	Records Management Program		
Compliance Line: Implementation Plan approved December 2022.				
DOE O 252.1A, Change 2 (AdminChg)	09/30/2024	Technical Standards Program		
DOE O 350.1, Change 7 (LtdChg)	02/19/2020	Contractor Human Resource Management Programs		
DOE O 410.2, Change 1 (AdminChg)	04/10/2014	Management of Nuclear Materials		
DOE O 412.1A Change 1 (AdminChg)	05/21/2014	Work Authorization System		
DOE O 413.1B	10/28/2008	Internal Control Program		Footnote (4)
DOE O 413.3B Change 7 (LtdChg)	11/29/2010	Program and Project Management for the Acquisition of Capital Assets		
DOE O 414.1D Change 2 (LtdChg)	09/15/2020	Quality Assurance		ES&H-related Directive included in WSS. See Footnote (3).
DOE O 420.1C, Change 3 (LtdChg)	11/14/2019	Facility Safety		ES&H-related Directive included in WSS. See Footnote (3).
DOE O 435.1, Change 2 (AdminChg)	01/11/2021	Radioactive Waste Management		ES&H-related Directive included in WSS. See Footnote (3).
DOE M 435.1-1, Change 3 (LtdChg)	06/08/2011	Radioactive Waste Management Manual		ES&H-related Directive included in WSS. See Footnote (3).
DOE O 440.2C, Change 3 (LtdChg)	03/21/2023	Aviation Management and Safety		
DOE O 442.2, Change 1 (PgChg)	10/04/2016	Differing Professional Opinions for Technical Issues Involving Environmental, Safety and Health Technical Concerns		
DOE O 443.1C	11/26/2019	Protection of Human Research Subjects		
DOE P 450.4A, Change 1 (MinChg)	01/18/2018	Integrated Safety Management Policy		
DOE O 458.1, Change 4 (LtdChg)	09/15/2020	Radiation Protection of the Public and the Environment		ES&H-related Directive included in WSS. See Footnote (3).
DOE O 460.1D Change 1 (LtdChg)	06/10/2022	Hazardous Materials Packaging and Transportation Safety		

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DOE O 460.2B	06/10/2022	Departmental Materials Transportation and Packaging Management		
DOE O 470.3C Change 2 (LtdChg)	02/23/2024	Design Basis Threat (DBT) Order		
DOE O 470.4B, Change 3 (LtdChg)	09/23/2021	Safeguards and Security Program		
DOE O 470.5	06/02/2014	Insider Threat Program		
DOE O 470.6, Change 1 (MinChg)	01/11/2017	Technical Security Program		
DOE O 471.1B	03/01/2010	Identification and Protection of Unclassified Controlled Nuclear Information		
DOE O 471.7	02/03/2022	Controlled Unclassified Information		
Compliance Line: Revised Implementation Plan approved April 2024. Implementation Plan completed August 2024.				
DOE O 471.6, Change 4 (LtdChg)	08/22/2023	Information Security		
DOE O 472.2A Change 1 (LtdChg)	10/28/2024	Personnel Security		
DOE O 473.1A	08/30/2021	Physical Protection Program		
DOE O 473.2A	08/30/2021	Protective Force Operations		
DOE O 474.2A, Change 1 (AdminChg)	04/16/2024	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, Change 4 (LtdChg)	10/28/2024	Reimbursable Work for the Department of Homeland Security		
DOE O 486.1A	09/04/2020	Foreign Government Sponsored or Affiliated Activities		
DOE O 520.1B, Change 1 (LtdChg)	11/11/2022	Financial Management and Chief Financial Officer Responsibilities		
DOE O 522.1A Change 1 (LtdChg)	10/28/2024	Pricing of Departmental Materials and Services		
DOE O 534.1B	01/06/2003	Accounting		
DOE O 550.1, Change 1 (LtdChg)	12/13/2019	Official Travel		

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DOE 2340.1C	06/08/1992	Coordination of General Accounting Office Activities		

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Work Smart Standards (WSS) Sets				
Required Compliance Document	Approval Date	Title	Change # Submission Date	Notes and Comments
WSS Set 45		Oak Ridge Institute for Science and Education (ORISE) Work Smart Standards Set	02/18/2025	

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.

ORISE WORK SMART STANDARDS SET

(Revision 45, February 18, 2025)

WORK SMART STANDARDS (WSS)	
<u>Standards</u>	
Accidents Involving Hazardous Materials, Tenn. Code Ann. 58-2-301 et seq.	
Americans with Disabilities Act (ADA), Public Law 101-336	
Animal Welfare Act, 7 U.S.C. 2131 et seq.	
Archaeological Resources Protection Act, 16 U.S.C. A. 470aa et seq.	
Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq.	
Clean Air Act, 42 U.S.C.A. 7401 to 7671	
Comprehensive Environmental Response, Compensation & Liability Act, 42 U.S.C.A. 9601-9675	
Emergency Community Right-to-Know Act, 42 U.S.C.A. 11001-11050	
FED-STD-795, Uniform Federal Accessibility Standards	
Federal Facility Compliance Act, 42 U.S.C.A. 6939c et seq.	
Federal Insecticide, Fungicide, & Rodenticide Act, 7 U.S.C.A. 136-136y	
Federal Water Pollution Control Act and permits issued pursuant to, 33 U.S.C.A. 1251-1387	
Hazardous Materials Transportation Act, 49 U.S.C. 1813 et seq.	
Hazardous Materials Transportation Uniform Safety Act, 49 U.S.C.A. 5701 et seq.	
Hotels, Food Service Establishments & Public Swimming Pool Inspection Act, Tenn. Code Ann. 68-14-101 et seq. (food service)	
Motor Carrier Safety, 49 U.S.C. 3101 et seq.	
Motor Carriers, Tenn. Code Ann 65-15-101 et seq.	
National Environmental Policy Act, 42 U.S.C.A.	
National Historic Preservation Act, 16 U.S.C. 470 et seq.	
Occupational Safety & Health Act, 29 U.S.C.A.	

Operation of Vehicles: Rules of the Road, Tenn. Code Ann. 55-8-101 et seq.
Plant Quarantine Act, 7 U.S.C. 151 et seq.
Pollution Prevention Act, 42 U.S.C.A. 13101-13109
Resource Conservation & Recovery Act and permits issued pursuant to, 42 U.S.C.A. 6901 et seq.
Safe Drinking Water Act, 42 U.S.C.A. 300f to 300j-26
Tennessee Air Quality Act, Tenn. Code Ann. 68-201-101 et seq.
Tennessee Application of Pesticides Act, Tenn. Code Ann. 68-21-101 et seq.
Tennessee Boiler Inspection Act, Tenn. Code Ann 68 -20-101
Tennessee Fire Protection Code, Tenn. Code Ann 68-120-101
Tennessee Elevator Code, Tenn. Code Ann 68-121-101 et seq.
Tennessee Hazardous Waste Management Act and permits issued pursuant to, Tenn. Code Ann. 68-212-101 et seq.
Tennessee Hazardous Waste Reduction Act, Tenn. Code Ann. 68-212-301 et seq.
Tennessee Insecticide, Fungicide & Rodenticide Act, Tenn. Code Ann. 43-8-101 et seq.
Tennessee Oil Spill Cleanup & Environmental Preservation Act, Tenn. Code Ann. 68-216-101 et seq.
Tennessee Petroleum Underground Storage Tank Act, Tenn. Code Ann. 68-215-101 et seq.
Tennessee Safe Drinking Water Act, Tenn. Code Ann. 68-221-701 et seq.
Tennessee Solid Waste Disposal Act, Tenn. Code Ann. 68-211-801 et seq.
Tennessee Used Oil Collection Act of 1993, Tenn. Code Ann. 68-211-1001 et seq.
Tennessee Water Quality Control Act of 1977 and permits issued pursuant to, Tenn. Code Ann. 69-3-101 et seq.
Toxic Substances Control Act, 15 U.S.C.A.
9 Code of Federal Regulations (CFR) 1-3 - Animals and Animals Products
10 CFR 820 Procedure Rules for Nuclear Facilities (as applicable to Radiological Facilities only)
10 CFR 830.120 Quality Assurance
10 CFR 835 - Occupational Radiation Protection

10 CFR 851 - Worker Safety and Health Program
10 CFR 962 - By-product Material (definitions/clarification).
10 CFR 1021 - National Environmental Policy Act (NEPA) Implementation Procedures
10 CFR 1022 - Compliance with Floodplain/Wetlands Environmental Review Requirements
29 CFR 1904 - Recording Occupational Injuries & Illness
29 CFR 1910 - Occupational Safety & Health Standards for General Industry
29 CFR 1926 - Occupational Safety & Health Standards for Construction
29 CFR 1975 - Coverage of Employers under the Williams-Steiger Occupational Safety & Health Act of 1970
29 CFR 1977 - Discrimination Against Employees Exercising Rights under the Williams-Steiger Occupational Safety and Health Act
36 CFR 60 - National Register of Historic Places
36 CFR 63 - Determination of Eligibility for Inclusion in the National Historic Places
36 CFR 65 - National Historic Landmarks Program
36 CFR 78 - Waiver of Federal Agency Responsibilities under 110 of NHPA
36 CFR 79 - Curation of Federally Owned and Administered Archaeological Collections
36 CFR 800 - Protection of Historic and Cultural Properties
39 CFR 111.1 - Domestic Mail Manual
40 CFR 50-90 - CAA Implementing Regulations
40 CFR 104-149 - Implementing Regulations for Federal Water Pollution Control Act & Safe Drinking Water Act
40 CFR 156 - Labeling Requirements for Pesticides & Devices
40 CFR 162 - State Registration of Pesticide Products
40 CFR 171 - Certification of Pesticide Applicators
40 CFR 260-279-Federal Hazardous Waste Regulations
40 CFR 280 - Underground Storage Tanks (definitions & exemptions)
40 CFR 302 - Designation, Reportable Quantities & Notification

40 CFR 355 - Facility Notification & Release Reporting Requirements
40 CFR 370 - Hazardous Chemical Inventory Reporting Requirements
40 CFR 372 - Toxic Release Reporting Requirements
40 CFR 373 - Reporting Hazardous Substance Activity when Selling or Transferring Federal Real Property
40 CFR 761 - PCBs Manufacturing, Processing, Distribution in Commerce and Use Prohibitions
40 CFR 763 - Asbestos
40 CFR 1500-1508 - Council on Environmental Quality
42 CFR 84 - Respiratory Protection Devices (particulate)
49 CFR - Department of Transportation (DOT) Hazardous Materials Regulations
49 CFR 325-399 - DOT Federal Motor Carrier Safety Regulations
Tenn. R. & Reg. 0080-6-14 - Pest Control Operators
Tenn. R. & Reg. 0080-6-16 - Regulations Governing Use of Restricted Use Pesticides
Tenn. R. & Reg. 1200-1-7 - Solid Waste Processing & Disposal
Tenn. R. & Reg. 1200-1-11 - Hazardous Waste Management
Tenn. R. & Reg. 1200-1-11-11 - Standards for the Management of Used Oil
Tenn. R. & Reg. 1200-1-15 - Underground Storage Tank Program
Tenn. R. & Reg. 1200-3-1 - Division of Air Pollution Control Regulations
Tenn. R. & Reg. 1200-4-1 - Tennessee Water Quality Regulations
Tenn. R. & Reg. 1200-2-1-20 - Tennessee DOT Safety Rules & Regulations
Executive Order (E.O.) 11988 - Floodplain Management
E.O. 11990 - Protection of Wetlands
E.O. 12699 - Seismic Safety of Federal and Federally Assisted or Regulated New Building Construction
E.O. 12843 - Procurement of Ozone-Depleting Substances
E.O. 12856 - Federal Compliance with Right-to-Know Laws & Pollution Prevention Requirements
E.O. 12941 - Seismic Safety of Existing Federally Owned or Leased Buildings

E.O. 13101 - Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition
DOE Order 414.1D, Change 2 (dated 09-15-20) - Quality Assurance
DOE Order 420.1C, Change 3 (dated 11-14-19) - Facility Safety
DOE Order 422.1 (dated 06-29-10) - Conduct of Operations
DOE Order 435.1 (dated 07-09-99), Change 2 (dated 01-11-21) - Radioactive Waste Management
DOE Manual 435.1-1 (dated 07-09-99), Change 3 (dated 01-11-21) - Radioactive Waste Management Manual Sections I.1.A-D, I.1.E.(01), I.1.E.(03), I.1.E.(05), I.1.E.(06)-(07), I.1.E.(10)-(17), I.1.E.(19)-(21), I.2.F.(01)-(05), I.2.F.(07), I.2.F.(09)-(12), I-2-F(19)-(20), I.2.G.(01)-(02), IV.A-B, IV.D, IV.F, IV.H-L, and IV.N.
DOE Order 450.1A (dated 06-04-08) - Environmental Protection Program
DOE Order 458.1, Change 4 (dated 09-15-20) - Radiation Protection of the Public and the Environment
American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical & Physical Agents & Biological Exposures
Illuminating Engineers Society Standards
ANSI B 30.16 - Overhead Hoists (design)
ANSI B 30.20 - Below the Hook Lifting Devices (design)
ANSI B 30.21 - Manually Operated Hoists (design)
ANSI/ASME B 31.3 - Piping Code
ASME B 31.5 - Refrigeration Piping
ANSI A 92.2 - Vehicle-Mounted Elevating and Rotating Aerial Device (design)
ANSI Z 1030 - Power Tools
ASME Standards & Technical Publications - Section VIII Pressure Vessel Code
City of Oak Ridge Code of Ordinances, Title 7, Fire Protection (for ORAU-owned facilities)
National Fire Protection Association (NFPA) Standard 70, National Electric Code
National Fire Protection Association (NFPA) Standard 70E, Electrical Safety Requirements for Employee Workplaces
National Fire Protection Association (NFPA) Standard 101, Life Safety Code

National Fire Protection Association (NFPA) Standards, as applicable, as determined by the AHJ (ORAU), including NFPA 1, 10, 11, 11A, 12, 12A, 13, 13D, 13R, 14, 15, 16, 17, 17A, 20, 24, 25, 30, 30A, 30B, 31, 32, 33, 40, 45, 50, 50A, 50B, 51, 51A, 51B, 54, 58, 59, 59A, and 72

ORISE IMPLEMENTATION STANDARDS

These Implementation Standards are documented for reference value only and are intended to assist ORISE as guidelines in implementing an effective ES&H program. These standards are not considered mandatory requirements of the contract.

DOE STD-1043-93, Change 1 (dated December 1998) Guide to Good Practices for Operator Aid Postings

DOE ORDER 422.1 (dated June 28, 2010) Conduct of Operations

DOE-STD-1090-2007, Change 1 (dated December 2007) Hoisting and Rigging Standard

DOE-STD-1066-99 Fire Protection Design Criteria

DOE-HDBK-1092-2004 Electrical Safety

ANSI Z 358.1 Emergency Eyewash and Shower Equipment

ANSI Z 87.1-2003 Occupational and Educational Personal Eye and Face Protection Devices

ANSI/AIHA Z 9.5-2003 Laboratory Ventilation

Factory Mutual (FM) Approved Listings and Standards

Underwriters' Laboratories (UL) Standards and Listings

CDC Safety Manual (PPE selection)

CDC Biosafety in Microbiological and Biomedical Laboratories

DOE Voluntary Protection Program (VPP) Manual, Parts I-IV, DOE/EH-0433-0436

American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 62-1999, Ventilation for Acceptable Indoor Air Quality

EPA Guidance for Controlling ACM in Buildings (Purple Book)

EPA Guidance for Managing Asbestos in Place (Green Book)

International Organization for Standardization (ISO) 14001:2015, Environmental Management Systems

OUTLINE OF CHANGES FOR WORK SMART STANDARDS SET
REVISION 45
Date: February 18, 2025

REQUIRED COMPLIANCE DOCUMENT	DATE	TITLE	CHANGE DESCRIPTION	AUTHORIZATION
WORK SMART STANDARDS				
DOE O 435.1, Change 1 Deletion Explanation: Cancelled by DOE O 435.1, Change 2	08/28/2001	Radioactive Waste Management	Simple Administrative	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE O 435.1, Change 2 Addition Explanation: Cancels and replaces DOE O 435.1, Change 2	01/11/2021	Radioactive Waste Management	Simple Administrative	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE M 435.1-1, Change 2 Deletion Explanation: Cancelled by DOE M 435.1-1, Change 3	06/08/2011	Radioactive Waste Management Manual	Simple Administrative	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025
DOE M 435.1-1, Change 3 Addition Explanation: Cancels and replaces DOE M 435.1-1, Change 2	01/11/2021	Radioactive Waste Management Manual	Simple Administrative	SC-OSO email dated 12/06/2024 ORAU email dated 01/07/2025