

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGES OF PAGES 1   1	
2. AMENDMENT/MODIFICATION M087		3. EFFECTIVE DATE SEE BLOCK 16C		4. REQUISITION/PURCHASE REQ. NO. WPAS-NOPR		5. PROJECT NO. (If applicable)
6. ISSUED BY U. S. Department of Energy Oak Ridge Operations P. O. Box 2001 Oak Ridge, TN 37831-8756 CODE				7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  UT-Battelle, LLC Attn: Michael J. Fietze, Director Prime Contract Administration Post Office Box 2008 Oak Ridge, TN 37831-6231  CODE   FACILITY CODE				(X)	9A. AMENDMENT OF SOLICITATION NO.	
					9B. DATED (SEE ITEM 11)	
				X	10A. MODIFICATION OF CONTRACT/ORDER DE-AC05-00OR22725	
					10B. DATED (SEE ITEM 13) October 18, 1999	
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATION</b>						
<p>_____ 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 YOU ACKNOWLEDGMENT 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.</p>						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ ORDERS, IT MODIFIES CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>						
	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) Clause I-140 and P.L. 95-91					
E. IMPORTANT: Contractor [ ] is not, [ X ] is required to sign this document and return <u> 2 </u> 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 revise Appendix E by incorporating Requirements Change Notice No. OR-13 attached hereto.						
Except as provided herein, all terms and conditions of the document referenced in Item 9A and 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print) Greg L. Turner Chief Financial Officer				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Susan G. Hiser Contracting Officer		
15B. CONTRACTOR/OFFEROR  <u>Greg L. Turner</u> (Signature of person authorized to sign)		15C. DATE SIGNED  9/17/2003		16B. UNITED STATES OF AMERICA BY <u>Susan G. Hiser</u> (Signature of Contracting Officer)		16C. DATE SIGNED  9/18/03

DOE Form (04/1991)	No: OR-13
<b>U.S. Department of Energy Requirements Change Notice</b>	
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Project: Contract Baseline Documentation	Location: Oak Ridge, Tennessee
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Contractor: UT-Battelle, LLC
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Contractor No.: DE-AC05-00OR22725 Special Contract Requirements Clause I-140	Date of Contract: April 1, 2000
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This Requirements Change Notice (RCN) No. OR-13 incorporates into Appendix E, Contract No. DE-AC05-00OR22725, 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. Changes to Appendix E are indicated by bold type. Environmental, Safety, and Health (ES&H)-related directives are indicated by italics. Below is a list of directives incorporated herein.

**ADDITIONS:**

DOE O 420.2A	<i>DOE M 440.1-1</i>	DOE M 473.1-1	ORO O 530, Chapter III, Change 4
DOE O 425.1C	<i>DOE O 460.1B</i>	DOE N 481.1	
<i>DOE O 440.2B</i>	DOE O 473.1	DOE O 534.1B	

**DELETIONS:**

DOE O 311.1A	DOE N 473.5	<i>DOE O 5480.23</i>
DOE O 425.1B	DOE N 473.7	DOE O 5632.1C
<i>DOE O 440.2A</i>	DOE O 534.1A	DOE M 5632.1C-1
<i>DOE O 460.1A</i>	<i>DOE O 5480.21</i>	ORO O 530, Chapter III, Change 3
DOE N 473.4	<i>DOE O 5480.22</i>	

**OTHER APPLICABLE DIRECTIVES:**

WSS, Chgs. 26, 27, 28, & 29 - Other Industrial, Radiological, and Non-Radiological Hazard Facilities  
WSS, Chgs. 13 & 14- Radiochemical Research Facilities (Building 2026 and 5505)  
WSS, Chgs. 12 & 13 - Radiochemical Technology Facilities (Buildings 3027 and 3047)  
WSS, Chgs. 12 & 13 - Radiochemical Engineering Development Center  
(Buildings 7920, 7930, and Support Areas)  
WSS, Chgs. 12 & 13 - Radiochemical Development Facility (Building 3019 and its ancillary buildings)  
WSS, Chgs. 12 & 13 - Irradiated Materials Examination and Testing Facility and Irradiated Fuels  
Examination Laboratory (Buildings 3025E, 3525, and Support Areas)  
WSS, Chg. 2 - Construction and Construction-like Activities  
WSS, Chgs. 12, 13 & 14 - High Flux Isotope Reactor and its associated facilities  
WSS, Chgs. 12 & 13 - Building 4501 Nuclear Hot Cell Facility  
WSS Set 13 - Spallation Neutron Source

<b><u>EXPIRATION DATE EXTENDED BY DOE N 205.5:</u></b>	DOE N 205.2 and DOE N 205.3
<b><u>EXPIRATION DATE EXTENDED BY DOE N 231.2:</u></b>	DOE N 231.1
<b><u>EXPIRATION DATE EXTENDED BY DOE N 251.51:</u></b>	DOE N 471.3
<b><u>EXPIRATION DATE EXTENDED BY DOE N 450.10 and DOE N 450.11:</u></b>	DOE N 450.7
<b><u>EXPIRATION DATE CANCELLED BY DOE N 205.5:</u></b>	DOE N 205.1

DOE Authorizing Signature:  George J. Malosh, Contracting Officer's Representative	Date: 7/22/03
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OUTLINE OF CHANGES

<b>OD #151</b> <b>DOE N 450.10</b>	12/30/2002	EXTENSION OF DOE N 450.7 THE SAFE HANDLING, TRANSFER, AND RECEIPT OF BIOLOGICAL ETIOLOGIC AGENTS OF DEPARTMENT OF ENERGY FACILITIES		ORO ltr dated 02/28/2003; UT-Battelle ltr dated 03/20/2003
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*Extends expiration date for DOE N 450.7 to 03/30/2003*

<b>OD #152</b> <b>WSS Type 2</b>	09/10/1998	HIGH FLUX ISOTOPE REACTOR (HFIR) AND ITS ASSOCIATED FACILITIES	12 03/24/2003	ORO ltr dated 03/24/2003; UT-Battelle ltr dated 02/19/2003
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*Changes to the WSS Set for HFIR in regards to the exceptions noted in the set for DOE O 5480.20A, Change 1. The following exceptions to the Order were deleted: Sections 1.3; 1.5.c for performance demonstrations; 1.7, 1.7a, 1.7d, 1.7g, 1.7g2; 1.7.a3; 1.7.f; and 1.8. The following exceptions remain as follows: Revise Section 1.5 c requirements for radiological training to read: Radiological Control technicians, who shall comply with the requirements of 10 CFR 835. Revise Section 1.7.e(1)(c) to read: GET programs shall include training on the following areas, as they relate to individual jobs. (c) Training program content shall be in accordance with 10 CFR 835. Revise Section 1.7.g (3) to read: Training program content for radiological control technicians (RCTs) shall be in accordance with the requirements contained in 10 CFR 835. Revise Chapter 1.7.i to only: Supervisory Skills Training: Problem analysis and decision making; Management Training: quality assurance, facility Security, nuclear safety, industrial safety,*

<b>OD #153</b> <b>WSS Type 1</b>	09/30/1996	RADIOCHEMICAL RESEARCH FACILITIES (BUILDING 2026 AND 5505)	13 04/09/2003	UT-Battelle email dated 04/09/2003
	12/17/1996	RADIOCHEMICAL TECHNOLOGY FACILITIES (BUILDINGS 3027 AND 3047)	12 04/09/2003	
	12/17/1996	RADIOCHEMICAL ENGINEERING DEVELOPMENT CENTER (BUILDINGS 7920, 7930, AND SUPPORT AREAS)	12 04/09/2003	
	05/07/1997	RADIOCHEMICAL DEVELOPMENT FACILITY (BUILDING 3019 AND ITS ANCILLARY BUILDINGS)	12 04/09/2003	
	05/07/1997	IRRADIATED MATERIALS EXAMINATION AND TESTING FACILITY AND IRRADIATED FUELS EXAMINATION LABORATORY (BUILDINGS 3025E, 3525, AND SUPPORT AREAS)	12 04/09/2003	
	05/30/1997	HIGH FLUX ISOTOPE REACTOR (HFIR) AND ITS ASSOCIATED FACILITIES	13 04/09/2003	
	05/30/1997	BUILDING 4501 NUCLEAR HOT CELL FACILITY (07-01-1999)	12 04/09/2003	

## OUTLINE OF CHANGES

*Due to the implementation due date of 4/10/2003 of 10 CFR 830, Subpart B, DOE O 5480.21, .22, and .23 are no longer necessary; thus, they have now been deleted from the ORNL Work Smart Standards Sets # 2, 4, 5, 6, 7, 10, & 11*

<b>OD #154</b> <b>WSS Type 1</b>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON- RADIOLOGICAL HAZARD FACILITIES	26 02/28/2003	UT-Battelle email dated 02/28/2003
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*This is a Type 1 WSS Change to update to the current version of the DOE Order for Aviation Management and Safety: Addition of DOE O 440.2B and deletion of DOE O 440.2A.*

<b>OD #155</b> <b>WSS Type 2</b>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON- RADIOLOGICAL HAZARD FACILITIES	27 02/27/2003	ORO ltr dated 02/27/2003; UT-Battelle ltr dated 02/17/2003
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*This is a Type 2 WSS Change initiative which resulted in the deletion of Department of Defense 6055.9-STD, DOD Ammunition & Explosive Safety Standards and the addition DOE M 440.1-1, Chapter II, Sections 3.1.d; 7.4.b; 14.3.a & b; 17, Table 11-4 & 11-5; 18.3.b; and 21*

<b>OD #156</b> <b>DOE N 481.1</b>	02/28/2003	REIMBURSABLE WORK FOR DEPARTMENT OF HOMELAND SECURITY		ORO ltr dated 03/18/2003; UT-Battelle ltr dated 03/27/2003
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*Adds DOE N 481.1*

<b>OD #157</b> <b>ORO O 530, CHAPTER III, CHANGE 4</b>	02/04/2003	ACCOUNTING		ORO ltr dated 04/01/2003; UT-Battelle ltr dated 04/29/2003
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*Adds DOE ORO O 530 Chapter III, Change 4 and deletes DOE ORO O 530 Chapter III, Change 3*

<b>OD #158</b> <b>DOE O 534.1B</b>	01/06/2003	ACCOUNTING		ORO ltr dated 02/07/2003; UT-Battelle ltr dated 03/04/2003
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*Adds DOE O 534.1B and deletes DOE O 534.1A*

<b>OD #159</b> <b>DOE N 231.2</b>	12/30/2002	EXTENSION OF DOE N 231.1, ENVIRONMENT, SAFETY, AND HEALTH REPORTING NOTICE		ORO ltr dated 02/07/2003; UT-Battelle ltr dated 03/04/2003
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*Extends expiration of DOE N 231.1 to 01/15/2004*

<b>OD #160</b> <b>DOE N 251.51</b>	12/19/2002	EXTENSION OF DOE N 471.3 REPORTING INCIDENTS OF SECURITY CONCERNS		ORO ltr dated 02/12/2003; UT-Battelle ltr dated 03/06/2003
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*Extends expiration of DOE N 471.3 to 06/30/2003*

OUTLINE OF CHANGES

<u>OD #161</u> <u>WSS Type 1</u>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON- RADIOLOGICAL HAZARD FACILITIES	28 04/10/2003	UT-Battelle email dated 04/10/2003
<i>This is a Type 1 WSS Change from: ANSI D 6.1e, Manual on Uniform Traffic Control Devices, to Manual on Uniform Traffic Control Devices, which is no longer an ANSI Standard.</i>				
<u>OD #162</u> <u>WSS Type 1</u>	07/25/1996	OTHER INDUSTRIAL, RADIOLOGICAL, AND NON- RADIOLOGICAL HAZARD FACILITIES	29 05/23/2003	UT-Battelle email dated 05/23/2003
<i>This is a Type 1 WSS Change to update to the current version of the DOE Order for Packaging and Transportation: Addition of DOE O 460.1B and deletion of DOE O 460.1A. There are no changes in requirements.</i>				
<u>OD #163</u> <u>DOE O 420.2A</u>	01/08/2001	SAFETY OF ACCELERATOR FACILITIES		Malosh/ Beierschmitt ltr. dated 04/18/2003
<i>Add DOE O 420.2A</i>				
<u>OD #164</u> <u>DOE O 473.1</u> <u>DOE M 473.1-1</u>	12/23/2001 12/23/2001	PHYSICAL PROTECTION PROGRAM PHYSICAL PROTECTION PROGRAM		ORO ltr dated 03/05/2003; UT-Battelle ltr dated 05/01/2003
<i>Adds DOE O 473.1 and DOE M 473.1-1, deletes DOE O 5632.1C, DOE M 5632.1C-1, DOE N 473.4, DOE N 473.5, and DOE N 473.7</i>				
<u>OD #165</u> <u>DOE N 450.11</u>	04/03/2003	EXTENSION OF DOE N 450.7 THE SAFE HANDLING, TRANSFER, AND RECEIPT OF BIOLOGICAL ETIOLOGIC AGENTS OF DEPARTMENT OF ENERGY FACILITIES		ORO ltr dated 04/23/2003; UT-Battelle ltr dated 03/20/2003
<i>Extends expiration date for DOE N 450.7 to 06/30/2003</i>				
<u>OD #166</u> <u>DOE N 205.5</u>	04/03/2003	EXTENSION OF DOE N 205.2 FOREIGN NATIONALS ACCESS TO CYBER SYSTEMS AND DOE N 205.3 PASSWORD GENERATION, PROTECTION AND USE		ORO ltr dated 03/17/2003; UT-Battelle ltr dated 04/16/2003
<i>Extends expiration dates for DOE N 205.2 AND DOE N 205.3 to 02/16/2004; cancels expiration date for DOE N 205.1</i>				

OUTLINE OF CHANGES

<u>OD #167</u> <u>WSS Type 1</u>	09/30/1996	RADIOCHEMICAL RESEARCH FACILITIES (BUILDING 2026 AND 5505)	14 05/30/2003	UT-Battelle email dated 05/30/2003	
	12/17/1996	RADIOCHEMICAL TECHNOLOGY FACILITIES (BUILDINGS 3027 AND 3047)	13 05/30/2003		
	12/17/1996	RADIOCHEMICAL ENGINEERING DEVELOPMENT CENTER (BUILDINGS 7920, 7930, AND SUPPORT AREAS)	13 05/30/2003		
	05/07/1997	RADIOCHEMICAL DEVELOPMENT FACILITY (BUILDING 3019 AND ITS ANCILLARY BUILDINGS)	13 05/30/2003		
	05/07/1997	IRRADIATED MATERIALS EXAMINATION AND TESTING FACILITY AND IRRADIATED FUELS EXAMINATION LABORATORY (BUILDINGS 3025E, 3525, AND SUPPORT AREAS)	13 05/30/2003		
	05/07/1997	CONSTRUCTION AND CONSTRUCTION-LIKE ACTIVITIES	2 05/30/2003		
	05/30/1997	HIGH FLUX ISOTOPE REACTOR (HFIR) AND ITS ASSOCIATED	14 05/30/2003		
	05/30/1997	BUILDING 4501 NUCLEAR HOT CELL FACILITY (07-01-1999)	13 05/30/2003		
	<i>This is a Type 1 WSS Change update to the current version of the DOE Order for Startup and Restart of Nuclear Facilities: Addition of DOE O 425.1C and deletion of DOE O 425.1B.</i>				