



Department of Energy

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APR 08 1999

Mr. Paul Pardi, RCRA Group Leader
 and FFCA Project Manager
 Ohio Environmental Protection Agency
 Division of Hazardous Waste Management
 401 East 5th Street
 Dayton, Ohio 45402-2911

DOE-0630-99

Dear Mr. Pardi:

SUBMITTAL OF CROSS-REFERENCE INDEX PURSUANT TO THE DIRECTOR'S FINAL FINDINGS AND ORDERS FILED JUNE 6, 1996

Reference: Letter and Director's Final Findings and Orders, Thomas E. Crepeau,
 OEPA to P. Hamric, U. S. DOE and J. Bradburne, FEMP, dated June 6, 1996.

In accordance with Section V, Order #2 of the referenced Director's Final Findings and Orders (DF&O), enclosed is a cross-reference index of Hazardous Waste Management Unit (HWMU) closure components and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) documents for those HWMUs identified in Attachment A of the DF&O. The index links specific components of Ohio Environmental Protection Agency's (OEPA) Interim Final Closure Plan Review Guidance for RCRA Facilities related to substantive closure requirements with the appropriate CERCLA document that addresses those components. The list is cumulative and provides page numbers and sections for those CERCLA documents that have already been submitted.

The submittal of this cross-reference index meets the requirement in Section V to provide this document following the submittal of a CERCLA document identified in the cross-reference index. The Final Operable Unit 1 Remedial Design Documents Package and the Draft Thorium/Plant 9 Complex Project Completion Report were submitted to OEPA and U.S. Environmental Protection Agency (U.S. EPA) on April 1, 1999, and April 8, 1999, respectively. The specific references to these documents in the cross-reference table have been highlighted. References for additional HWMUs identified in the Operable Unit 5 Remedial Investigation Report have been added based on comments received in a meeting with Phil Harris of OEPA, Division of Hazardous Waste Management Unit, on March 24, 1999.

Mr. Paul Pardi

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If you have any questions regarding this matter, please contact Robert Danner at (513) 648-3167.

Sincerely,

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Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:R.C. Janke

Enclosure

cc w/enclosure:

R. Danner, OH/FEMP
R. Fellman, FDF/52-1
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A. Tanner, OH/FEMP
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CROSS-REFERENCE INDEX FOR FEMP HWMU CLOSURE PLAN COMPONENTS UNDER CERCLA

CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
<p>1. Description/Detailed Drawing of Waste Management Unit(s) to be Closed (Closure Guidance Item 3.2 and 3.4)</p>	<p>OU1 FINAL Remedial Investigation Report, August 1994</p> <p>OU3 FINAL Integrated Remedial Design/Remedial Action Work Plan, May 1997</p> <p>OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement</p> <p>FINAL Plant 1 Complex - Phase I Implementation Plan, March 1996</p> <p>FINAL Thorium/Plant 9 Complex Implementation Plan, August 1997</p> <p>FINAL Misc. Small Structures Implementation Plan, October 1998</p> <p>FINAL Implementation Document for HWMUs #28 and 50, December 1998</p>	<p>Waste Pit 4 (27): Description, pp. 1-23 to 1-24; History, pp. 1-35 to 1-36; Drawings, pp. 1-83, 1-88</p> <p>Waste Pit 5 (42): Description, pp. 1-24 to 1-27; History, pp. 1-36 to 1-37; Drawings, pp. 1-83, 1-89</p> <p>HWMU Component Number and Associated D&D Complex: Table 3-10, p. 3-71</p> <p>D&D Complex Locations: Figure 2-2, p. 2-17</p>
		<p>Drawing of HWMU: To be Submitted for Each D&D Complex</p> <p>Plant 1 Storage Bldg. - Bldg. 67 (25): Figure D-11</p> <p>Plant 9 Warehouse - Bldg. 81 (35): Figure D-10, D-11</p> <p>Waste Oil Decant Shelter (component of Trane Incinerator) (28): No drawing available for this unit</p> <p>KC-2 Warehouse - Bldg. 63 (34): Figure D-22, D-23</p> <p>UNH Tanks - NFS Storage Area (46): Figure D-1</p> <p>Trane Incinerator (28): Attachment 1</p> <p>UNH Tanks - Raffinate Bldg. (50): Attachment 2</p>

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CROSS-REFERENCE INDEX FOR FEMP HWMU CLOSURE PLAN COMPONENTS UNDER CERCLA

CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
<p>1. Description/Detailed Drawing of Waste Management Unit(s) to be Closed (Closure Guidance Item 3.2 and 3.4) - Continued</p>	<p>OU5 FINAL Remedial Investigation Report, March 1995</p>	<p>General Location Map of HWMUs to be Closed Under CERCLA: Figure 4-112 Size and Dimensions of HWMUs: Table 1-12 FEMP Topographic Map: Figure 3-1 General HWMU Information and Locations Within OU5 Areas, Appendix D: Plant 1 Storage Pad (20): Plant 1 Area, Section D.2.1, p. D.2-2 UNH Tanks (46-50), NAR System (10), Trane Incinerator (28): Plant 2/3 Area, Section D.2.2, p. D.2-19 Storage Pad N of Plant 6 (36): Plant 6 Area, Section D.2.4, p. D.2-28 Plant 8 East and West Drum Storage Pads (17, 18), Box Furnace (14), Oxidation Furnace #1 (15): Plant 8 Area, Section D.2.5, p. D.2-33 Sludge Drying Beds (41): Sewage Treatment Plant Area, Section D.2.7, p. D.2-41 Abandoned Sump West of Pilot Plant (22), Tank T-2 (54): Pilot Plant Area, Section D.2.8, p. D.2-45 Drum Storage Area Near Lab Loading Dock (4), Drum Storage Area S of W-76 (5): Laboratory Area, Section D.2.9, p. D.2-51 Tank Farm Sump (11): Tank Farm and Boiler House Area, Section D.2.13, p. D.2-69 Fire Training Facility (1): Fire Training Area, Section D.2.18, p. D.2-86</p>
<p>2. List of Hazardous Waste(s) Managed in Unit(s) (Closure Guidance Item 3.5)</p>	<p>OU1 FINAL Remedial Investigation Report, August 1994</p>	<p>Waste Managed in Unit: Waste Pit 4 (27): pp. 4-60 to 4-70, pp 1-35 to 1-36 Waste Pit 5 (42): pp. 4-70 to 4-77, pp 1-36 to 1-37</p>
	<p>OU3 FINAL Remedial Investigation/Feasibility Study Report</p>	<p>Waste Managed in HWMU: Table K-1</p>
	<p>OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement FINAL Plant 1 Complex - Phase I Implementation Plan, March 1996</p>	<p>Waste Managed in HWMU: To be Submitted for Each D&D Complex Plant 1 Storage Bldg. - Bldg. 67 (25): Section 3.7, p. 42</p>

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CROSS-REFERENCE INDEX FOR FEMP HWMU CLOSURE PLAN COMPONENTS UNDER CERCLA

CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
<p>2. List of Hazardous Waste(s) Managed in Unit(s) (Closure Guidance Item 3.5) - Continued</p>	<p>FINAL Thorium/Plant 9 Complex Implementation Plan, August 1997</p> <p>FINAL Misc. Small Structures Implementation Plan, October 1998</p> <p>FINAL Implementation Document for HWMUs #28 and 50, December 1998</p> <p>OU5 FINAL Remedial Investigation Report, March 1995</p> <p>OU5 FINAL Feasibility Study Report, June 1995</p> <p>OU5 FINAL Sitewide Excavation Plan, July 1998</p> <p>OU5 Integrated Remedial Design Packages for Individual Remediation Areas</p> <p>Area 1, Phase II Supplemental Characterization Package, December 1998</p>	<p>Plant 9 Warehouse - Bldg. 81 (35) Section 3.13, pp. 39 to 40</p> <p>Waste Oil Decant Shelter (component of Trane Incinerator) (28): Section 3.17, p. 36</p> <p>KC-2 Warehouse - Bldg. 63 (34) Section 3.23, pp. 41 to 43</p> <p>UNH Tanks - NFS Storage Area (46): Section 3.1, p. 23</p> <p>Trane Incinerator (28): HWMU Decontamination</p> <p>UNH Tanks - Raffinate Bldg. (50): HWMU Decontamination</p> <p>HWMUs with Potential Soil Contamination: Tables 4-68 and 4-69</p> <p>HWMU Constituents of Concern (COCs) for Soil: Tables 4-4, 4-5 and 4-6</p> <p>HWMU COCs: Table 2-1</p> <p>HWMU COCs: To be Submitted</p> <p>Sludge Drying Beds (41): Section 3.1, Analytical Summary, pp. 3-1 to 3-2</p>
<p>3. Removal of Waste and Contaminated Media (Closure Guidance Item 3.6)</p>	<p>OU1 FINAL Remedial Design Documents Package, August 1998</p> <p>OU3 FINAL Integrated Remedial Design/Remedial Action Work Plan, May 1997</p> <p>OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">2158</p> <p>Removal of Waste - Waste Pit 4 (27), Waste Pit 5 (42): Volume 2, Excavation Plan</p> <p>General Methods for Removing and Storing Waste: HWMU Decontamination, Section 3.2.3, p. 3-13; Materials Management, Section 3.3, pp. 3-30 to 3-63; HWMU Remediation (use of Safe Shutdown, D&D of complexes), Section 3.5.3, pp. 3-69 to 3-73</p> <p>Removing Waste from HWMU Storage, Treatment, and Disposition of Waste: To be Submitted for Each D&D Complex</p>

CROSS-REFERENCE INDEX FOR FEMP HWMU CLOSURE PLAN COMPONENTS UNDER CERCLA

CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
<p>3. Removal of Waste and Contaminated Media (Closure Guidance Item 3.6) - Continued</p>	<p>FINAL Plant 1 Complex - Phase I Implementation Plan, March 1996</p> <p>FINAL Thorium/Plant 9 Complex Implementation Plan, August 1997</p> <p>FINAL Misc. Small Structures Implementation Plan, October 1998</p> <p>FINAL Implementation Document for HWMUs #28 and 50, December 1998</p> <p>FINAL Site-wide Excavation Plan, July 1998</p> <p>Integrated Remedial Design Packages for Individual Remediation Areas</p> <p>Area 1, Phase II Supplemental Characterization Package, December 1998</p> <p>FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998</p> <p>FINAL Remedial Action Work Plan, January 1997</p>	<p>Plant 1 Storage Bldg. - Bldg. 67 (25): Section 3.7, p. 42</p> <p>Plant 9 Warehouse - Bldg. 81 (35): Section 3.13, pp. 39 to 40</p> <p>Waste Oil Decant Shelter (component of Trane Incinerator) (28): Section 3.17, pp. 36 to 37</p> <p>KC-2 Warehouse - Bldg. 63 (34) Section 3.23, p. 42</p> <p>UNH Tanks - NFS Storage Area (46): Section 3.1, pp. 23 to 24</p> <p>Trane Incinerator (28): Remedial Tasks</p> <p>UNH Tanks - Raffinate Bldg. (50): Remedial Tasks, HWMU Decontamination</p> <p>Excavation, Loading, Staging, Storage, Treatment and/or Disposition of Impacted Material: Section 2.0, Remediation Issues and General Strategies; Section 3.0, General Implementation Approach; Section 4.0, Location Specific Excavation Approaches; Appendix B, Site-wide Sequencing Plan; Appendix F.3 to F.5, Implementation of Construction; Appendix I, Site-wide Excavation of Contamination by Constituent</p> <p>Area/Phase-Specific Excavation, Loading, Staging, Storage, Treatment and/or Disposition of Impacted Material: To be Submitted</p> <p>Sludge Drying Beds (41): Removal of Waste: Section 3.3, Material Disposition Sampling Plan, p. 3-3</p> <p>Disposition of Sludge and Removal of Impacted Soil Material: Section 3.2.5, Below-WAC Soil and Debris Excavation, pp. 3-19 to 3-23; and Table 3-2, Waste Stream Disposition</p> <p>Schedule Summary for Remedial Design/Remedial Action Packages; Closure of Waste Pit 4 (27), Waste Pit 5 (42): Table 2-1, p. 2-16</p>
<p>4. Schedule for Closure (Closure Guidance Item 3.7)</p>	<p>OUS</p> <p>OUS</p> <p>OUS</p>	<p>2158</p>

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CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
4. Schedule for Closure (Closure Guidance Item 3.7) - Continued	<p>OU3 FINAL Integrated Remedial Design/Remedial Action Work Plan, May 1997</p> <p>OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement</p> <p>FINAL Plant 1 Complex - Phase I Implementation Plan, March 1996</p> <p>FINAL Thorium/Plant 9 Complex Implementation Plan, August 1997</p> <p>FINAL Misc. Small Structures Implementation Plan, October 1998</p> <p>FINAL Implementation Document for HWMUs #28 and 50, December 1998</p> <p>OU5 FINAL Remedial Design Work Plan, August 1996</p> <p>OU5 FINAL Sitewide Excavation Plan, July 1998</p> <p>OU5 Integrated Remedial Design Packages for Individual Remediation Areas</p> <p>FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998</p>	<p>Accelerated Schedule for Conducting Safe Shutdown Activities at D&D Complexes: Figure 6-1, p. 6-3</p> <p>Schedule for Submitting D&D Packages: Table 6-1, p. 6-7</p> <p>Schedule for Removing & Decontaminating Above-Grade Unit Structures and Equipment: To be Submitted for Each D&D Complex</p> <p>Plant 1 Storage Bldg. - Bldg. 67 (25): Figure 4-1, p. 48</p> <p>Plant 9 Warehouse - Bldg. 81 (35) Figure 4-1, p. 43</p> <p>Waste Oil Decant Shelter (component of Trane Incinerator) (28); KC-2 Warehouse - Bldg. 63 (34); UNH Tanks - NFS Storage Area (46): Section 4.0, pp. 45 to 46</p> <p>Trane Incinerator (28); UNH Tanks - Raffinate Bldg. (50): Letter, J. Reising to G. Jablonowski and T. Schneider, "Transmittal of RCRA/CERCLA Integrated Closure Implementation Document for the Trane Incinerator (HWMU No. 28) and UNH Tanks, Hot Raffinate Building (HWMU No. 50)," dated December 22, 1998.</p> <p>Schedule for Submitting Remedial Design Documents for Soil: Table 4-1, p. 4-6</p> <p>Schedule for Submitting Remedial Design Documents: Table 1-5</p> <p>Area/Project-Specific Schedules: To be Submitted</p> <p>Sludge Drying Beds (41) - Sector 3: Section 6.10, Schedule, pp. 6-25 to 6-26; Table 6-4, A1PII Certification Schedule; and Table 6-5, A1PII Remedial Action Schedule</p>
5. Health and Safety Issues (Closure Guidance Item 3.9)	<p>OU1 FINAL Remedial Action Documents Package, April 1999</p> <p>OU3 FINAL Integrated Remedial Design/Remedial Action Work Plan, May 1997</p>	<p>Health and Safety Plan</p> <p>Health and Safety Plan: Appendix E</p>

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CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS-REFERENCE INDEX
<p>5. Health and Safety Issues (Closure Guidance Item 3.9) - Continued</p>	<p>OUS FINAL Sitewide Excavation Plan, July 1998</p> <p>OUS Integrated Remedial Design Packages for Individual Remediation Areas</p> <p>FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998</p> <p>OUI OUI Complex D&D Implementation Plan</p> <p>OU3 FINAL Integrated Remedial Design/Remedial Action Work Plan, May 1997</p> <p>OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement</p> <p>FINAL Plant 1 Complex - Phase I Implementation Plan, March 1996</p> <p>FINAL Thorium/Plant 9 Complex Implementation Plan, August 1997</p> <p>FINAL Misc. Small Structures Implementation Plan, October 1998</p> <p>FINAL Implementation Document for HWMUs #28 and 50, December 1998</p>	<p>Health and Safety Plan: Section 6.0, Project Health and Safety; Table 6-1, Occupational Monitoring and Action Levels</p> <p>Area/Phase-Specific Health and Safety Requirements: To be Submitted</p> <p>Sludge Drying Beds (41): Section 5.0, Project Specific Health and Safety</p> <p>Decontamination of Equipment To be Submitted</p> <p>HWMU Decontamination: Section 3.2.3, p. 3-13 HWMU Remediation: Section 3.5.3, pp. 3-69 to 3-73 (use of Safe Shutdown, D&D of complexes)</p> <p>Decontamination of Above-Grade Unit Structures and Equipment: To be Submitted for Each D&D Complex</p> <p>Plant 1 Storage Bldg. - Bldg. 67 (25): HWMU Decontamination: Section 3.7, pp. 42 to 45 Materials Management: Table 2-4, p. 12</p> <p>Plant 9 Warehouse - Bldg. 81 (35): HWMU Decontamination: Section 3.13, pp. 39 to 40 Materials Management: Table 2-1, p. 12</p> <p>Waste Oil Decant Shelter (component of Trane Incinerator) (28): Section 3.17, pp. 36 to 37</p> <p>KC-2 Warehouse - Bldg. 63 (34) Section 3.23, pp. 42 to 43</p> <p>UNH Tanks - NFS Storage Area (46): Section 3.1, pp. 23 to 24</p> <p>Trane Incinerator (28): HWMU Decontamination</p> <p>UNH Tanks - Raffinate Bldg. (50): HWMU Decontamination</p>
<p>6. Decontamination Efforts (Closure Guidance Item 3.10)</p>		<p align="right">2158</p>



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CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS REFERENCE INDEX
6. Decontamination Efforts (Closure Guidance Item 3.10) - Continued	OU5 FINAL Site-wide Excavation Plan, July 1998	Decontamination of Excavation Equipment: Section F.2.3. Installation of Decontamination and Wash Facilities
	OU5 Integrated Remedial Design Packages for Individual Remediation Areas FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998	Area/Phase-Specific Requirements for Decontamination of Excavation Equipment: To be Submitted Sludge Drying Beds (41): Equipment Decontamination: Section 3.2.1.8, Preparation of Equipment Wash Operations, p. 3-13; and Section 3.2.2.2, Sludge Cake, p. 3-15 Remediation-Generated Water Management: Section 3.4.4, Remediation-Generated Wastewater Management, pp. 3-33 to 3-35
7. Remediation Standards for Soils and Groundwater ² (Closure Guidance Items 3.11, 3.11.1, 3.11.2, and 3.12)	OU1 FINAL Record of Decision, January 1995	Waste Pit (27, 42) Area: pp. 9-1 to 9-11 Tables B-5 to B-16
	OU1 OU1 Remedial Design Pre-Final Design Package II, March 1996	Waste Pit (27, 42) Area: pp. A-3 to A-7
	OU5 FINAL Record of Decision, January 1996	Final Remediation Levels (FRLs) for Soil and Groundwater: Table 9-3, p. 9-23 Table 9-4, p. 9-26
	OU5 FINAL Site-wide Excavation Plan, July 1998	Summary of Contaminant Levels Pertinent to Soil Remediation at the FEMP: Table 1-4; Final Remediation Levels: Section 2.1.3, p. 2-10 Constituents of Ecological Concern: Section 2.1.4, p. 2-13 Preliminary Identification of Primary, Secondary COCs and Ecological COCs Assigned to Remediation Areas: Table 2-7
	OU5 Integrated Remedial Design Packages for Individual Remediation Areas Area 1, Phase II Supplemental Characterization Package, December 1998	Area/Phase-Specific FRLs: To be Submitted Sludge Drying Beds (41): Section 3.3, Material Disposition Sampling Plan, p. 3-3; Section 5.0, Excavation Monitoring, pp. 5-1 to 5-2
8. Sampling Plan and Analytical Procedures (Closure Guidance Item 3.13) - Includes Sampling to Define the Extent of Contamination and Sampling to Verify the Unit is Clean.	OU1 FINAL Remedial Investigation Report, August 1994	Procedures for Determining Nature and Extent of Contamination at Waste Pit Area: Waste Pit 4 (27), Waste Pit 5 (42): Chapter 2, pp. 2-1 to 2-161
	OU1 FINAL Remedial Action Documents Package, April 1999	Procedures for Sampling and Analysis of Waste Pit Area: Certification of Waste Pit Area Cleanup: Sampling and Analysis Plan
	OU5 FINAL Remedial Investigation Report, March 1995	Procedures for Determining Nature and Extent of Soil Contamination: Chapter 2, pp. 2-1 to 2-83

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CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS REFERENCE INDEX
<p>8. Sampling Plan and Analytical Procedures (Closure Guidance Item 3.13) - Includes Sampling to Define the Extent of Contamination and Sampling to Verify the Unit is Clean - Continued</p>	OU5 FINAL Sitewide Excavation Plan, July 1998	Procedures for Certifying Attainment of Soil Cleanup: Section 2.2.2, p. 2-18 to 2-19; Section 2.2.5, p. 2-22 to 2-23; Section 3.4, p. 3-22 to 3-23; Appendix G, Certification Design Rationale
	OU5 Integrated Remedial Design Packages (IRDPs) for Individual Remediation Areas Area 1, Phase II Supplemental Characterization Package, December 1998	Area/Phase-Specific Procedures for Certifying FRL Attainment: To be Submitted Sludge Drying Beds (41): Section 3.3, Material Disposition Sampling Plan, p. 3-3; Section 5.0, Excavation Monitoring, pp. 5-1 to 5-2
	OU5 Certification Design Letters for Individual Remediation Areas	Area/Phase-Specific Procedures for Certifying FRL Attainment: To be Submitted
	OU1 FINAL Remedial Design Documents Package, August 1998	Removal and Handling of Waste Pit Waste - Waste Pit 4 (27), Waste Pit 5 (42): Volume 2, Excavation Plan
	OU1 FINAL Remedial Action Documents Package, April 1999	Processing of Waste Pit Waste - Waste Pit 4 (27) Waste Pit 5 (42): Operations and Maintenance (O & M) Plan for Remediation Facilities
	OU3 Implementation Plans for Above-Grade Decontamination and Dismantlement	Removal and Treatment of Waste in HWMU: To be Submitted for Each D&D Complex (where applicable)
	OU5 FINAL Feasibility Study Report, June 1995	Evaluation of Technologies and Process Options: Section 3.3, p. 3-5
	OU5 FINAL Sitewide Excavation Plan, July 1998	Excavation, Loading, Staging, Storage, Treatment, and/or Disposition of Impacted Material: Section 2.0, Remediation Issues and General Strategies; Section 3.0, General Implementation Approach; Section 4.0, Location Specific Excavation Approaches; Appendix B, Sitewide Sequencing Plan; Appendix F, Implementation of Construction; Appendix I, Sitewide Extent of Contamination by Constituent
	OU5 Integrated Remedial Design Packages (IRDPs) for Individual Remediation Areas Area 1, Phase II Supplemental Characterization Package, December 1998	Area/Phase-Specific Excavation, Loading, Staging, Storage, Treatment, and/or Disposition of Impacted Material: To be Submitted Sludge Drying Beds (41): Removal of Waste: Section 3.3, Material Disposition Sampling Plan, p. 3-3
	OU5 FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998	Sludge Drying Beds (41): Removal of Impacted Soil Material: Section 3.2.5, Below-WAC Soil and Debris Excavation, pp. 3-19 to 3-23 Waste Management: Section 3.2.7.1, Material Not Meeting On-Site WAC, p. 3-24; Section 3.4.3, Waste Stream Storage, Treatment and Disposal, pp. 3-32 to 3-35; and Table 3-2, Waste Stream Disposition

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<p>10. Landfill Closure Requirements - (if applicable) - (Closure Guidance Item 3.15)</p>	<p>OUI FINAL Record of Decision, January 1995</p> <p>OUI FINAL Remedial Design Work Plan, June 1995</p> <p>OUS FINAL Record of Decision, January 1996</p> <p>OUS Integrated Remedial Design Packages for Individual Remediation Areas</p> <p>FINAL Area 1, Phase II Integrated Remedial Design Package, September 1998</p>	<p>ARARs: Relevant and Appropriate as some remedial alternatives may require closure to these standards Tables B-28 to B-29</p> <p>Revised ARARs: Tables A-24 to A-25</p> <p>Not Applicable, if Remediation Levels for Soil and Groundwater are Sufficient for a Clean Hazardous Waste Management Unit Closure ; ARARs: Table B-3, p. B.3-10</p> <p>Area/Phase-Specific Landfill Closure Requirements: To be Submitted (if applicable)</p> <p>Sludge Drying Beds (41): Included within Appendix A, Design Criteria Package, Table A-2, p. A-32, but not anticipated to be applicable since HWMU to be clean (risk-based) closed by removal.</p>
<p>11. Certification (Closure Guidance Item 3.16)</p>	<p>OUI Remedial Action Report</p> <p>OU3 Project Completion Reports</p> <p>FINAL Plant 1 Complex - Phase 1 Project Completion Report, December 1997</p> <p>DRAFT Thorium/Plant 9 Complex Project Completion Report, April 1999</p> <p>OU5 Certification Reports for Individual Remediation Areas</p> <p>OU5 Remedial Action Report</p>	<p>Certification Sampling Results: To be Submitted</p> <p>Summary of HWMU Remediation Activities/Statement of Conformance with Requirements and Performance Standards: To be Submitted for Each D&D Complex</p> <p>Plant 1 Storage Bldg. - Bldg. 67 (25): Section 2.1.3, pp. 7 to 8</p> <p>Plant 9 Warehouse - Bldg. 81 (35): Section 2.2.11, pp. 12 to 14</p> <p>Area/Phase-Specific Certification Reports: To be Submitted</p> <p>Summary of Remedial Activities and Statement of Conformance with Requirements and Standards: To be Submitted</p> <p align="center">2158</p>

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CLOSURE PLAN COMPONENT	CERCLA DOCUMENT	CROSS REFERENCE INDEX
12. Status of Facility (or Unit) After Closure (Closure Guidance Item 3.17)	OU1 FINAL Record of Decision, January 1995	Status of Waste Pits After OU1 Remedial Action: pp. 10-1 to 10-9
	OU3 FINAL Record of Decision for Interim Remedial Action, June 1994	Status of Production Area HWMUs After OU3 Remedial Action: Section 5.4, p. 11
	OU5 FINAL Record of Decision, January 1996	Status of FEMP After Soil and Groundwater Remediation: Section 4.0, p. 4-1
	OU5 FINAL Site-wide Excavation Plan, July 1998	Certification Reports: Section 7.4, pp. 7-10 to 7-14
	OU5 Certification Reports for Individual Remediation Areas	Status of those HWMUs That Had Soil Contamination After Soil Remedial Action: To be Submitted

1 Closure Guidance items are from the Closure Plan Review Guidance for RCRA Facilities, Ohio EPA, Interim Final, September 1, 1993.

2 The perched water contamination has many sources, only some of which are the HWMUs. Because of this, it is difficult or impossible to identify the degree to which a HWMU may have contributed to perched water contamination. Therefore, the nature and extent of contamination in the perched water, and the most appropriate remedial action method and objectives, are best achieved under the CERCLA process alone.

3 Ohio EPA has two options for clean closure where there are no more RCRA requirements (i.e., no post-closure requirements) for the existing HWMUs: (1) complete removal of waste and impacted environmental media, and (2) complete removal of waste and impacted environmental media to health-based standards (known as Final Remediation Levels, FRLs). Post closure requirements will, however, be applicable to the CERCLA on-property disposal cell as it will take some soil and debris contaminated with RCRA-hazardous waste [see Post Closure Care and Inspection Plan, On-Site Disposal Facility (20100-PL-010, Rev. 1, July 1997)].

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