

**Department of Energy**

**Ohio Field Office
Fernald Closure Project
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NOV 16 2005

Mr. James A. Saric, Remedial Project Manager
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77 West Jackson Boulevard
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DOE-0021-06

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
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Dear Mr. Saric and Mr. Schneider:

**OPERABLE UNIT 3 PROJECT COMPLETION REPORT FOR THE OPERABLE UNIT
4 COMPLEX SILOS 1&2 COMPONENTS 34A (SILO 2), 34B (SILO 1) AND SILOS 1&2
BRIDGES DECONTAMINATION AND DISMANTLEMENT PROJECT**

Enclosed for your review and approval is the Operable Unit 3 Project Completion Report for the Operable Unit 1 Decontamination and Dismantlement (D&D) Project. The regulatory commitment date for this submittal is November 22, 2005.

If you have any questions or require additional information, please contact me at (513) 648-3139 or Ed Skintik at (513) 246-1369.

Sincerely,

Johnny W. Reising
Director

Mr. James A. Saric
Mr. Tom Schneider

-2-

DOE-0021-06

Enclosure:

cc w/enclosure:

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M. Shupe, HIS GeoTrans
R. Vandergrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

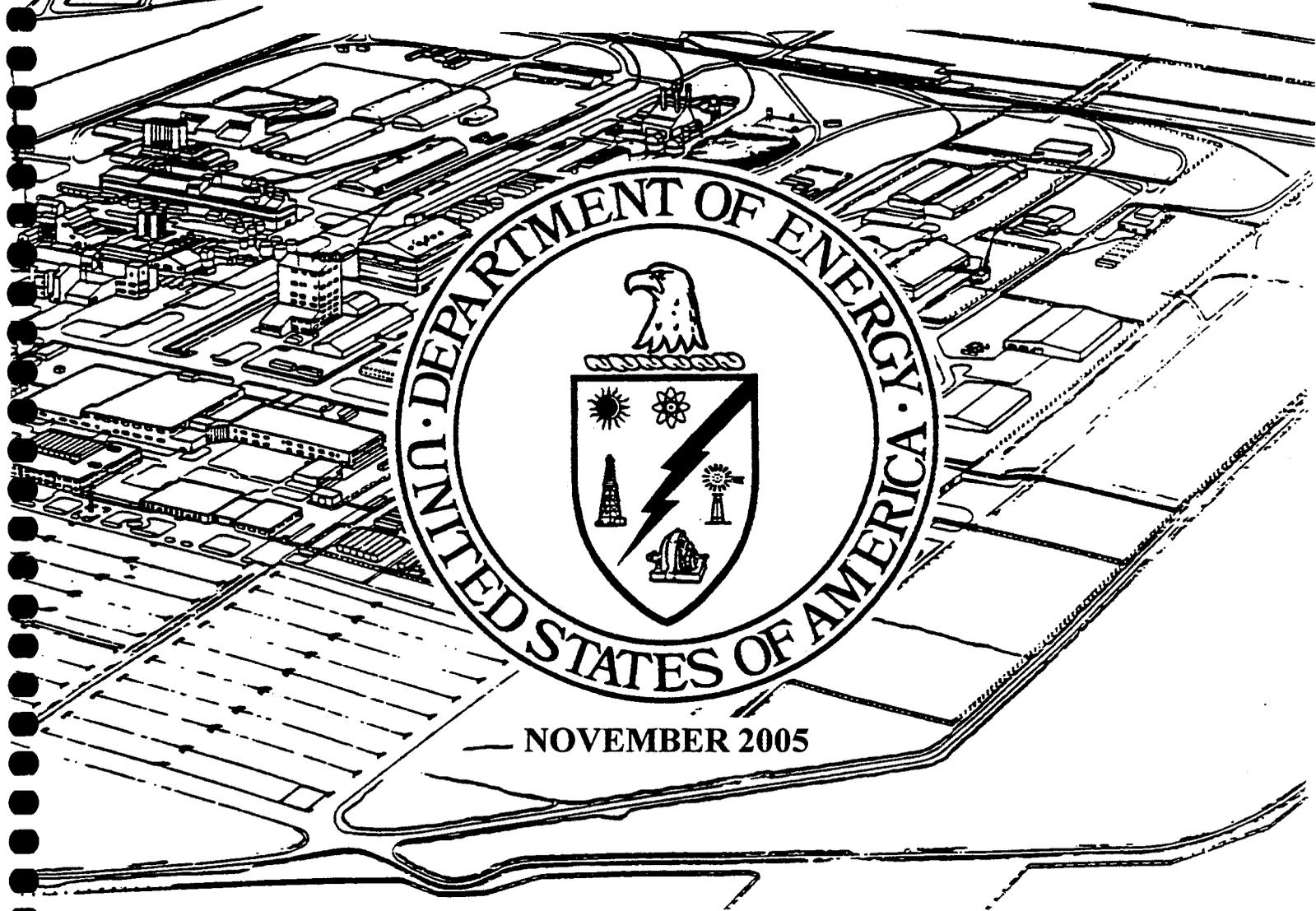
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ECDC Fluor Fernald Inc./MS52-7 Project Number 40900.1.1

OPERABLE UNIT 3

OPERABLE UNIT 4 COMPLEX SILOS 1&2 COMPONENTS 34A
(SILO 2), 34B (SILO 1) AND SILOS 1&2 BRIDGES
DECONTAMINATION AND DISMANTLEMENT PROJECT

PROJECT COMPLETION REPORT



NOVEMBER 2005

FERNALD CLOSURE PROJECT
FERNALD, OHIO

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

DOCUMENT CONTROL NO. 40900-RP-0001 (REV.0)

OPERABLE UNIT 3

PROJECT COMPLETION REPORT

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PROJECT COMPLETION REPORT
OPERABLE UNIT 4 COMPLEX SILOS 1&2 COMPONENTS 34A (SILO 2), 34B (SILO 1) AND
SILOS 1&2 BRIDGES D&D

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1.0 PROJECT SUMMARY

The decontamination and dismantlement (D&D) of the above-grade Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges was performed successfully and in accordance with the project planning/design requirements specified in the Operable Unit 4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Implementation Plan (DOE 2004). As required by the Implementation Plan, this document serves as the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project Completion Report. Following completion of the last Operable Unit 3 (OU3) D&D Project, this report will be compiled with reports from all OU3 D&D projects to prepare the Final Remedial Action Report for OU3.

The execution of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project began on February 22, 2005 with the start of Silos 1&2 D&D preparatory activities by the Fluor Fernald Self-Perform Group. Project completion was achieved by the Fluor Fernald Self-Perform Group on September 23, 2005 and is defined by the signed Final Acceptance/Turnover document that transfers the area to Fluor Fernald Facilities Management. This document signifies Completion of Field Activities per Section 4.2.4 of the OU3 Integrated RD/RA Work Plan.

The scope of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project included the following major activities:

- Berm Removal
- Surface decontamination;
- Above-grade component dismantlement; and
- Material management.

Section 2 presents a component-specific remediation summary. Material management is discussed in Section 3. The results of environmental monitoring conducted in support of this project are presented in Section 4.

The following components were included in the D&D implementation plan scope for the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges:

- Component 34B – K-65 Storage Tank (Silo 1)
- Component G-008 – Silo 1 Bridge
- Component 34A – K-65 Storage Tank (Silo 2)
- Component G-008 – Silo 2 Bridge
- Component F34-4 – Decant Sump Tank
- Component 22E – K-65 Trench (remaining 600 feet)

The Fluor Fernald Soil Disposal Facility Project will remove the remaining 600 feet of the K-65 Trench (Component 22E). The scope of this activity is covered under the Excavation Plan for Area 7 Silos and General Area. Therefore, D&D of the remaining 600 feet of the K-65 Trench (Component 22E) will not be addressed in this Project Completion Report.

Component G-008, the Silos 1&2 Bridges included four sections: The Silo 1 Bridge section extended east to west over the top of Silo 1. The Silo 2 Bridge section extended east to west over the top of Silo 2. The "Crossover" Bridge extended north to south and connected the Silo 1 Bridge to the Silo 2 Bridge. The TTA "Connector" Bridge extended west to east from the Crossover Bridge and then turned south into the TTA Building (Building 93C). Approximately 60 ft of the TTA Connector Bridge running west to east from the Crossover Bridge was removed as part of the Silos 1&2 Bridge removal. The remainder of the Connector Bridge that runs west to east and turns south into Building 93C will be demolished as part of the Silos 1&2 remediation facility demolition activity. The four bridge sections in this Project Completion Report describe D&D of Component G-008, Silos 1&2 Bridges.

1.1 Description of Complex

The components remediated under the scope of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project included the structures located north of Silo Road and south of the Bionitrification Surge Lagoon (18A) within the southwestern-most block of the former production area. The OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges are shown in Figure 1-1.

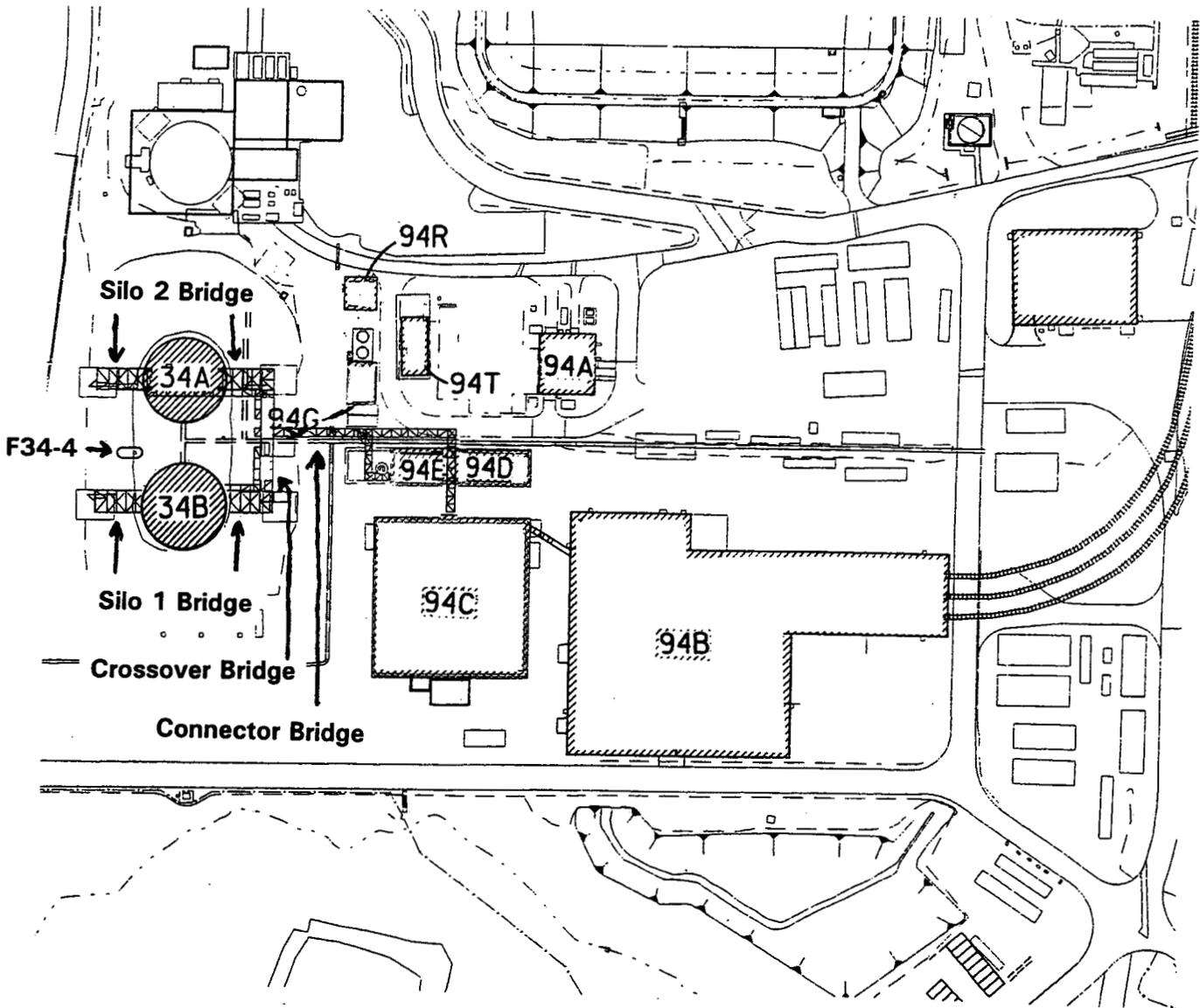


Figure 1-1 Components 34A, 34B and Silos 1&2 Bridges

1.2 Project Chronology

Table 1-1 lists the chronology of above-grade D&D activities for the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges:

TABLE 1-1 D&D Chronology

ACTIVITY	START	FINISH
Mobilization/Demobilization	2/22/05	9/23/05
Dismantlement		
• Component 34B – K-65 Storage Tank (Silo 1)	2/22/05	4/15/05
• Component G-008 – Silo 1 Bridge	5/25/05	6/3/05
• Component 34A – K-65 Storage Tank (Silo 2)	2/22/05	4/16/05
• Component G-008 – Silo 2 Bridge	5/26/05	5/31/05
• Component G-008 – Connector Bridge	5/9/05	5/20/05
• Component G-008 – Crossover Bridge	5/23/05	5/23/05
• Component F34-4 – Decant Sump Tank	7/11/05	9/22/05
Debris Size Reduction and Containerization:		
• Component 34B – K-65 Storage Tank (Silo 1)		4/29/05
• Component G-008 – Silo 1 Bridge		7/7/05
• Component 34A – K-65 Storage Tank (Silo 2)		5/1/05
• Component G-008 – Silo 2 Bridge		7/7/05
• Component G-008 – Connector Bridge		7/7/05
• Component G-008 – Crossover Bridge		7/7/05
• Component F34-4 – Decant Sump Tank		9/22/05
Completion of Field Activities (CFA)		9/23/05

2.0 REMEDIATION APPROACH

2.1 Preparatory Actions

Facility Shutdown activities were performed by FCP personnel and were completed for each of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges structures just prior to demolition activities. Facility Shutdown activities consisted of:

- Removal of all salvageable equipment;
- Removal of loose, gross contamination;
- General clean-up; and
- Disconnection of those utilities associated with the equipment/structures being demolished.

2.2 Component-Specific Remediation Summary

2.2.1 Component 34B – K-65 Storage Tank (Silo 1)

Background

Component 34B (K-65 Storage Tank (Silo 1) was a cylindrical, above-grade concrete tank with steel reinforcement. Component 34B measured 80 feet in diameter, 27 feet high at the top of the wall and 36 feet high at the center of the dome. The walls were eight

inches thick and cast in place with 4500 pounds per square inch (psi) concrete. The walls were wrapped with post-tensioned steel wires and covered with one-inch gunite. The wall was tied to the floor and dome with reinforcement steel.

Component 34B contained approximately 120,000 cubic feet of residues, including Radium-226, Thorium-230, bentonite, water and discrete objects generated from the processing of high-grade uranium ores. The silo was a major source of radon because of its high radium concentration. Samples of the silo material exceeded the EPA TCLP limit for lead.

Remedial Tasks

Remedial tasks began with the Phase 1 D&D activities outlined in Section 2.6 of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Implementation Plan. Prior to the start of Component 34B demolition, the berm embankment was removed (by the Fluor Fernald Soils Group). Component 34B was dismantled in accordance with the Phase 2 D&D activities outlined in Section 2.6 of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Implementation Plan. Materials generated during dismantlement of Component 34B included concrete, miscellaneous steel, equipment, piping and conduit/wire.

Photos

Photos 1 and 2 of Attachment 3 show the following activities for the D&D of Component 34B:

- 1 – Component 34B – Silo 1 Structural Demolition
- 2 – Component 34B – Silo 1 Structural Demolition

2.2.2 Component G-008 – Silo 1 Bridge, Crossover & Connector Bridge

Background

The Silo 1 Bridge was constructed of structural steel and measured 53 feet high, 175 feet long and 18 feet wide. The bridge was accessible from a stair tower on both the east and west ends. The Crossover Bridge was constructed of structural steel and measured 53 feet high, 18 feet wide and approximately 75 feet long. The Connector Bridge was constructed of structural steel and measured 53 feet high, 18 feet wide and approximately 95 feet long.

The Silo 1 Bridge was constructed over Silo 1 to support silo waste retrieval operations. The Crossover Bridge and Connector Bridge were constructed east of the Silo 1 & 2 Bridges to support silo waste retrieval operations.

Remedial Tasks

An initial washdown of the Silo 1 Bridge, Crossover Bridge and Connector Bridge was performed prior to the start of dismantlement. The Silo 1 Bridge, Crossover Bridge and Connector Bridge were dismantled in accordance with the Phase 3 D&D activities outlined in Section 2.6 of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and

Silos 1&2 Bridges D&D Implementation Plan. The east end of the Silo 1 Bridge was dropped to the ground and cuts were made east to west along strategic points of the bridge so that the bridge structure would cantilever down to the ground from east to west during dismantlement. Approximately 60 feet of the Connector Bridge was dismantled. The remainder of the Connector Bridge (approximately 35 feet) will be dismantled as part of the Silos 1&2 Remediation Facility demolition activity. Materials generated during dismantlement of the Silo 1 Bridge, Crossover Bridge and Connector Bridge included structural and miscellaneous steel, equipment, piping and conduit/wire.

Photos

Photos 3 through 6 of Attachment 3 show the following activities for the D&D of the Silo 1 Bridge, Crossover & Connector Bridge:

- 3 – Silo 1 Bridge Structural Demolition
- 4 – Silo 1 Bridge Structural Demolition
- 5 – Connector Bridge Structural Demolition
- 6 – Crossover Bridge Structural Demolition

2.2.3 Component 34A – K-65 Storage Tank (Silo 2)

Background

Component 34A (K-65 Storage Tank (Silo 2)) was a cylindrical, above-grade concrete tank with steel reinforcement. Component 34A measured 80 feet in diameter, 27 feet high at the top of the wall and 36 feet high at the center of the dome. The walls were eight inches thick and cast in place with 4500 pounds per square inch (psi) concrete. The walls were wrapped with post-tensioned steel wires and covered with one-inch gunite. The wall was tied to the floor and dome with reinforcement steel.

Component 34A contained approximately 120,000 cubic feet of residues, including Radium-226, Thorium-230, bentonite, water and discrete objects generated from the processing of high-grade uranium ores. The silo was a major source of radon because of its high radium concentration. Samples of the silo material exceeded the EPA TCLP limit for lead.

Remedial Tasks

Prior to the start of Component 34B demolition, the berm embankment was removed (by the Fluor Fernald Soils Group). Component 34A was dismantled in accordance with the Phase 4 D&D activities outlined in Section 2.6 of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Implementation Plan. Materials generated during dismantlement of Component 34A included concrete, miscellaneous steel, equipment, piping and conduit/wire.

Photos

Photo 7 of Attachment 3 shows the following activity for the D&D of Component 34A:

- 7 – Component 34B and 34A – Silos 1 and 2 Structural Demolition

2.2.4 Component G-008 – Silo 2 Bridge

Background

Component G-008 (Silo 2 Bridge) was constructed of structural steel and measured 53 feet high, 175 feet long and 18 feet wide. The bridge was accessible from a stair tower on both the east and west ends.

The Silo 2 Bridge was constructed over Silo 2 to support silo waste retrieval operations.

Remedial Tasks

An initial washdown of the Silo 2 Bridge was performed prior to the start of dismantlement. The Silo 2 Bridge was dismantled in accordance with the Phase 4 D&D activities outlined in Section 2.6 of the OU4 Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Implementation Plan. The west end of the Silo 2 Bridge was dropped to the ground and cuts were made west to east along strategic points of the bridge so that the bridge structure would cantilever down to the ground from west to east during dismantlement. Materials generated during dismantlement of the Silo 2 Bridge included structural and miscellaneous steel, equipment, piping and conduit/wire.

Photos

Photos 8 and 9 of Attachment 3 show the following activities for the D&D of the Silo 2 Bridge:

- 3 – Silo 2 Bridge Structural Demolition
- 4 – Silo 2 Bridge Structural Demolition

2.2.5 Component F34-4 – Decant Sump Tank

Background

Component F34-4 was a 10,000-gallon (nine feet diameter by eighteen feet horizontal cylinder) carbon steel tank buried on the west side of Silos 1&2. The tank, associated pumps and piping collected run-off and wastewater from the silos under-drain system.

Remedial Tasks

Decant Sump Tank excavation was done by the Fluor Fernald Soils group. A hole was torch cut into the tank and the remaining material was removed. The tank was sheared using a track-hoe mounted shear. Materials generated during dismantlement of the Decant Sump Tank included miscellaneous steel and piping.

Photos

There were no photos available of the Decant Sump Tank demolition activity.

3.0 MATERIAL MANAGEMENT

Generated Debris

Debris generated from the D&D of the Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges was size reduced, segregated, and containerized in accordance with the requirements identified by the Material Segregation and Containerization Criteria (MSCC).

Containerized materials that either have, or will be, disposed of in the FEMP On Site Disposal Facility (OSDF) are presented in Table 3-1. Containerized materials not meeting OSDF Waste Acceptance Criteria (WAC) that meet Envirocare disposal requirements are presented in Table 3-2. This information is identified in the Integrated Information Management System (IIMS) report, shown as Attachment 1. The IIMS report represents activities associated with materials generated by the project that either have been or are destined for disposition in the OSDF or at Envirocare.

Containerized materials requiring disposal at an offsite facility are presented in Table 3-3. This information is identified in the Site-Wide Waste Information and Tracking System (SWIFTS) database report, shown in Attachment 2. SWIFTS provides reports that track containerized materials that will be disposed of at an offsite facility.

Wastewater

Approximately 1,140 gallons of Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D wastewater were pumped to the Stormwater Management Pond. Water from the Stormwater Management Pond is pumped to the Converted Advanced Wastewater Treatment Facility for treatment and disposition.

TABLE 3-1 Waste Containers For Placement In The OSDF

Container Type	Debris Category	Profile	OSDF Code	Volume (cu. yds.)	Number of Containers
ADT (1)	A, B, D & E	92101	2	18	1
ADT	A, B, D & E (Thorium)	92028	2	3	1
ROB (2)	I-2	92023	2	156	6
ADT	A, B, D & E	92000	2	900	50
ROB	I-4	94005	4	15	1
ADT	B	922844	2	2556	142

(1) – Articulating Dump Truck ; (2) – Roll-Off Box

TABLE 3-2 Soil Pile 7 Associated Material

Container Type	Debris Category	Profile	OSDF Code	Volume (cu. yds.)	Number of Containers
ADT	SP-7	80094 (3)	N/A	2156	169

(3) – Soil, soil-like materials and associated debris not meeting OSDF WAC that meets Envirocare disposal requirements.

TABLE 3-3 Drums and White Metal Boxes for Offsite Shipment

Container Type	Debris Category	Material Description Code	OSDF Code	Volume (cu. yds.)	Number of Containers
55 Gallon Drum	Ore Concentrates	170	N/A	N/A	1
TOTAL					1
85 Gallon Drum	Contaminated Oil	015	N/A	N/A	2
85 Gallon Drum	Ballasts	050	N/A	N/A	1
TOTAL					3

4.0 ENVIRONMENTAL MONITORING

Project-specific environmental monitoring for the Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project included radiological air monitoring.

4.1 Radiological Air Monitoring

Air Monitoring Data Recorded at FCP Boundary

The IEMP environmental radiological air emissions data from the monitoring period of February 2005 through September 2005 indicated sporadic, short-term increases in site boundary airborne uranium concentrations. The increases, which may be attributable to emissions from the D&D of the Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges, are within the historical range of concentrations measured during previous D&D projects. Airborne uranium concentrations at the FCP boundary are influenced by emissions from all site projects, work activities and wind erosion of contaminated soils and materials.

Historical site boundary uranium data collected during similar D&D projects (Plants 1, 4, 7, and 9) indicate uranium concentrations averaged less than one half of one percent of the DOE maximum off-site guideline of 0.1 pCi/m³. During the monitoring periods of February 2005 through September 2005, the average uranium concentrations also indicated levels less than one half of one percent of the guideline. The maximum uranium concentration (at AMS-3) was 0.00013 pCi/m³, which represents less than one percent of the DOE maximum off-site guideline. The relationship between 0.1 pCi/m³ and mrem/year may be understood by the conversion factors used to equate the two terms; if inhaled continuously (24 hours/day, 365 days/year), 0.1 pCi/m³ of total uranium in air will result in a dose of 100 mrem/year. It should be noted that various assumptions have been incorporated in this conversion factor. The data from AMS-3 suggest that uranium emissions from the Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project have not significantly affected compliance with DOE guidelines. Furthermore, the emissions from the Operable Unit 4 (OU4) Complex Silos 1&2 Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D Project have not significantly affected compliance with NESHAP Subpart H limit of 10 mrem per year.

Site boundary data collected during the first, second, and third quarters of 2005 indicated the air inhalation effective dose equivalent for thorium-230 (Th-230) averaged 0.024 mrem at the site boundary (IEMP) air monitoring stations (AMS), which represents less than one percent of the NESHAP Subpart H limit. The maximum Th-230 dose (at AMS-3) was 0.055 mrem, which also represents less than one percent of the NESHAP standard. Radium-226 (Ra-226) data indicated an average air inhalation dose equivalent of 0.058 mrem at the IEMP monitors. The maximum Ra-226 dose was 0.16 mrem (at AMS-6), which represents 1.6 percent of the NESHAP standard.

The locations of the IEMP monitors are shown in Figure 4-1. The maximum year-to-date dose estimates at the IEMP monitors AMS-3, AMS-6 and AMS-27 indicated the total doses from isotopic uranium, thorium, radium and their progeny were 0.38, 0.3, and 0.3 mrem, respectively. These doses represent less than four percent of the NESHAP Subpart H limit.

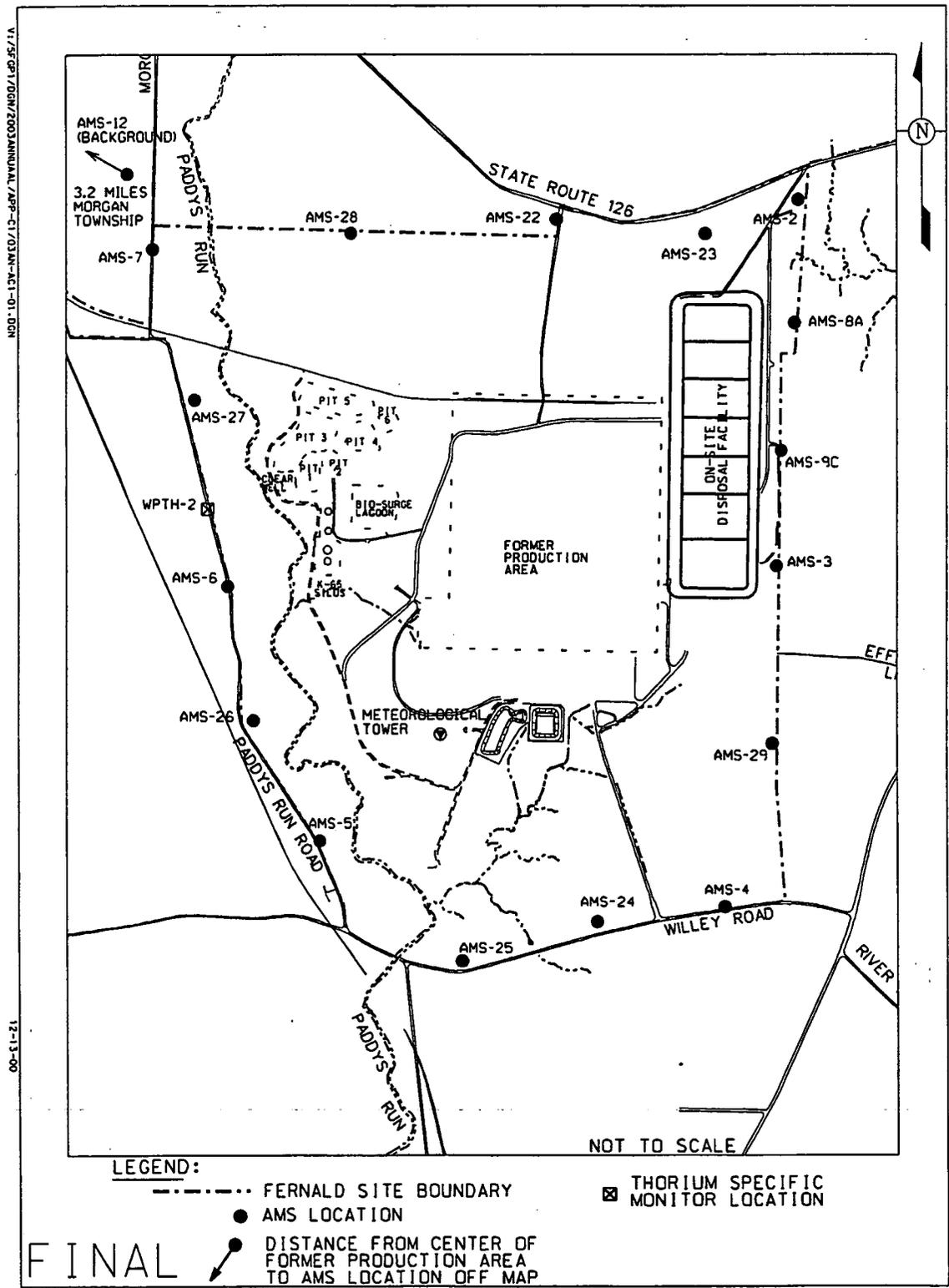


FIGURE C.1-1. IEMP AIR MONITORING LOCATIONS

Figure 4-1 FCP Sitewide Air Monitoring Locations

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*Project Completion Report
Operable Unit 4 Complex Silos 1&2
Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D*

40900-RP-0001 (Rev. 0)
November 2005

ATTACHMENT 1

**IIMS INFORMATION
(INTEGRATED INFORMATION MANAGEMENT SYSTEM)**

FR 03

*Project Completion Report
Operable Unit 4 Complex Silos 1&2
Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D*

*40900-RP-0001 (Rev. 0)
November 2005*

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WAO Integrated Information Management System
Project Detail Summary Report

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Form No	Project	Profile No	Profile Description	Location From : MTL Name	Typ	Location To : MTL Name	Typ	Volume	Date
31829	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-002	F	WPR-003	W	170	07-MAY-2005
32706	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-002	F	WPR-003	W	620	30-APR-2005
32708	642	92000	OSDF CATEGORY 2 MATERIAL	SIL0-002	F	WPR-003	W	260	30-APR-2005
32710	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-002	F	WPR-003	W	150	01-MAY-2005
32888	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-001	F	WPR-003	W	380	23-APR-2005
32889	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-001	F	WPR-003	W	230	24-APR-2005
32890	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIL0-001	F	WPR-003	W	500	24-APR-2005
32703	642	92000	OSDF CATEGORY 2 MATERIAL	SIL0-001	F	WPR-003	W	640	29-APR-2005
32440	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIS-019	F	AR6-006	S	4	07-JUL-2005
32442	642	80094	SOIL, SOIL-LIKE MATERIALS AND ASSOCIATED DEBRIS (NOT MEETING OSDF WAC) WHICH MEETS SP-7 STAGING REQUIREMENTS	SIS-019	F	AR6-006	S	102	06-JUL-2005
284804	642	92028	THORIUM CONTAMINATED CAT. 2 DEBRIS	SIS-019	F	OSDF	W	3	22-JUN-2005
300396	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	21-JUN-2005
300397	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	20-JUN-2005
300398	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	20-JUN-2005
300399	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	20-JUN-2005
300400	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	20-JUN-2005
300401	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	20-JUN-2005
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300720	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	05-JUL-2005
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300723	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	05-JUL-2005
300724	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	05-JUL-2005
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300726	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	05-JUL-2005
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WAO Integrated Information Management System
Project Detail Summary Report

From To

Form No	Project	Profile No	Profile Description	Location From :		Location To :		Volume	Date
				MTL Name	Typ	MTL Name	Typ		
300769	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	29-JUN-2005
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300774	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	22-JUN-2005
300775	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	22-JUN-2005
300776	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	22-JUN-2005
300777	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	23-JUN-2005
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300785	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	21-JUN-2005
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315508	642	922844	CATEGORY 'B' INACCESSIBLE METALS, OSDF CODE 2	SIS-019	F	OSDF	W	18	27-JUN-2005

Project Detail Summary Report

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From To

Form No	Project	Profile No	Profile Description	Location From :		Location To :		Volume	Date
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320501	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	30	29-SEP-2005
320506	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	30	16-MAY-2005
320513	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	18	10-OCT-2005
320514	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	18	08-OCT-2005
320515	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	30	30-SEP-2005
320516	642	92023	THIS PROFILE INCLUDES COMPRESSIBLE DEBRIS (E.G., PPE, INSULATION, ROLLS OF FENCING, CARPET, CEILING TILE, BUILT-UP ROOFING, TARPS, PLASTIC SHEETING). DEBRIS MEETING THIS PROFILE HAS BEEN GENERATED.	SIS-019	F	OSDF	W	30	29-SEP-2005
32869	642	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	AR7-002	I	AR6-012	S	18	22-JUL-2004
32869	642	94005	MATERIAL PRONE TO ORGANIC DECOMPOSITION, "GREEN" WASTES MEETING OSDF CAT 4 REQUIREMENTS	AR7-002	I	AR6-012	S	15	22-JUL-2004

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*Project Completion Report
Operable Unit 4 Complex Silos 1&2
Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D*

40900-RP-0001 (Rev. 0)
November 2005

ATTACHMENT 2

**SWIFTS INFORMATION
(SITE-WIDE WASTE INFORMATION FORECASTING AND TRACKING SYSTEM)**

8 2 0 8

*Project Completion Report
Operable Unit 4 Complex Silos 1&2
Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D*

*40900-RP-0001 (Rev. 0)
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SWIFTS CONTAINERS

10/28/2005

LOC	AREA	ROW	ST	LE	INV#	SERIAL #	PROD	SOU	C	MAT	SEQ	ITEM #	CONT	GR	TAREN	NET	% U	U 235	EDL	MBA	WASTE	TYPE	STATUS	MEF
0000	MS-10				W246698		W050	710	P	015	0526	0000	085	80	80	0	0.00	0.500	920	920	NON-RCRA	ACTIVE	1833	
0000	MS-10				W247201		W050	710	P	015	0526	0000	085	80	80	0	0.00	0.500	920	920	NON-RCRA	ACTIVE	1833	
	CONT. COUNT			2	W246212		R050	700	P	170	0520	0000	055	62	62	0	0.30	0.500	930	930	RCRA	CONSUM	3799	
	MS-15 NEAR SI																							
	CONT. COUNT			1	W232291		F000	700	K	050	0522	0000	085	80	80	0			920	920	NON-RCRA	ACTIVE	80111	
	MS-5																							
	CONT. COUNT			1																				

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*Project Completion Report
Operable Unit 4 Complex Silos 1&2
Components 34A (Silo 2), 34B (Silo 1) and Silos 1&2 Bridges D&D*

40900-RP-0001 (Rev. 0)
November 2005

ATTACHMENT 3

PHOTOS

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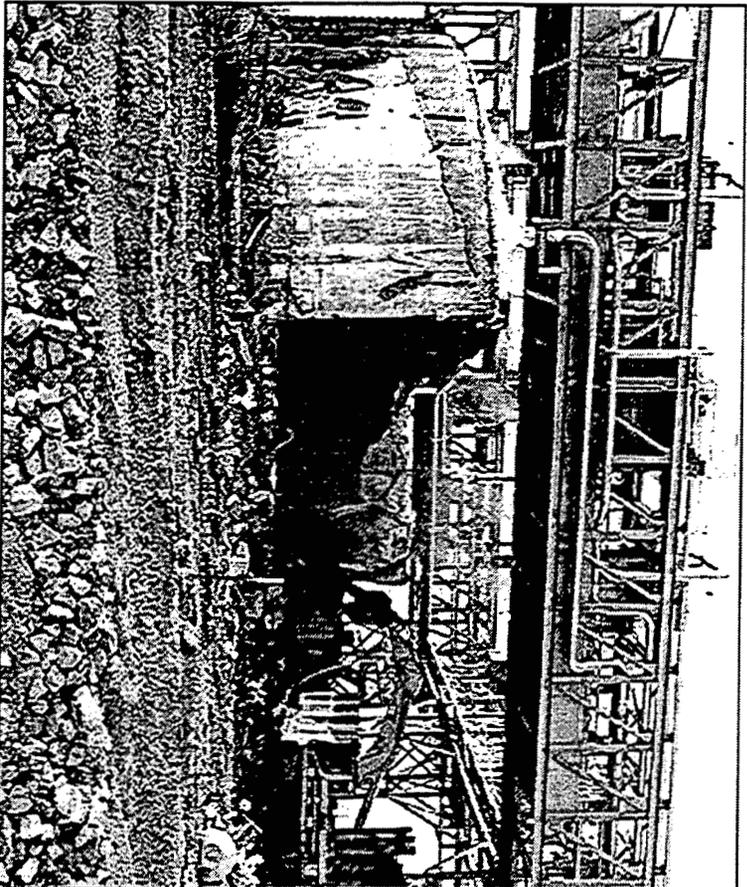
606A.53

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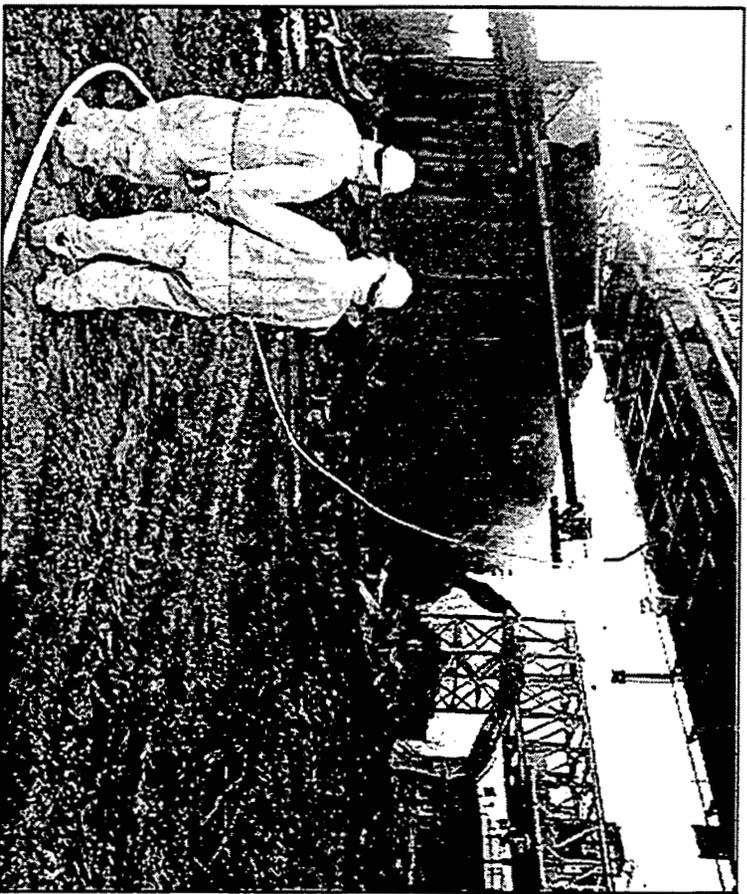
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2	7385D-4637	Component 34B - Silo 1 - Structural demolition.
3	7385D-4706	Silo 1 Bridge - Structural demolition.
4	7385D-4718	Silo 1 Bridge - Structural demolition.
5	8119D-7	Connector Bridge - Structural demolition
6	7385D-4692	Crossover Bridge - Structural demolition
7	7385D-4656	Component 34B and 34A - Silos 1 and 2 - Structural demolition
8	7385D-4743	Silo 2 Bridge - Structural demolition
9	7385D -4758	Silo 2 Bridge - Structural demolition

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STRUCTURAL DEMOLITION COMPONENT 34B - SILO 1

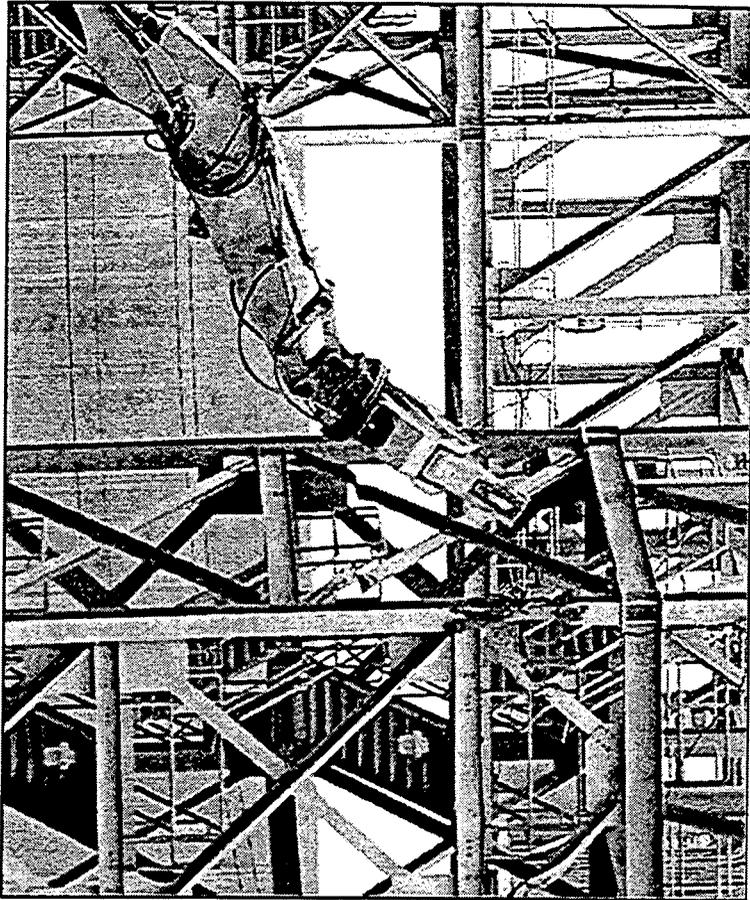


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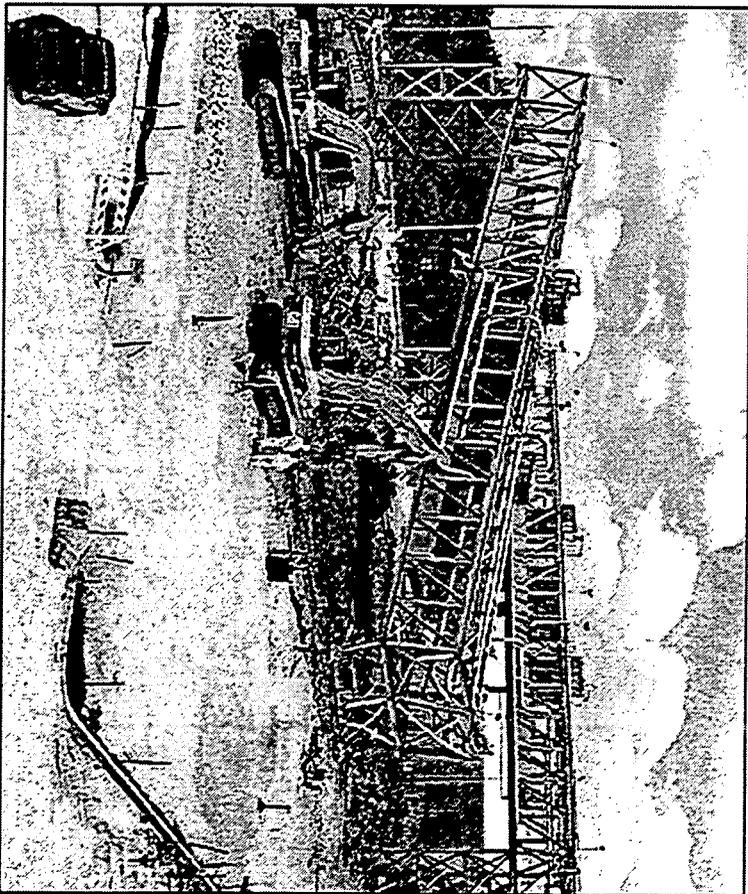


7385D-4637

STRUCTURAL DEMOLITION
SILO 1 BRIDGE



7385D-4706



7385D-4718

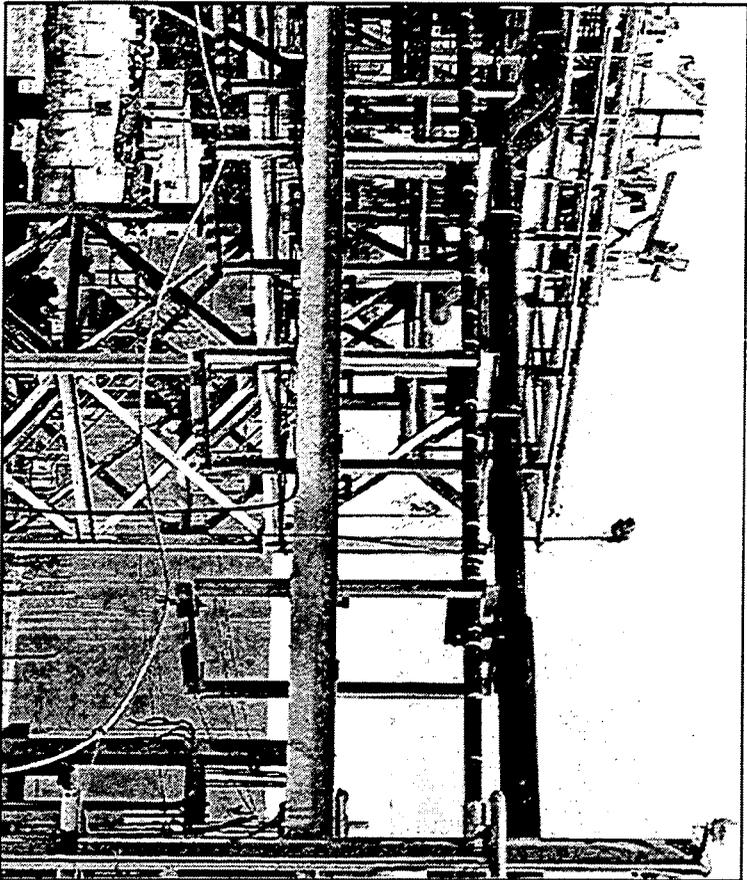
8417.5 10/05



FERNALD
Closure Project

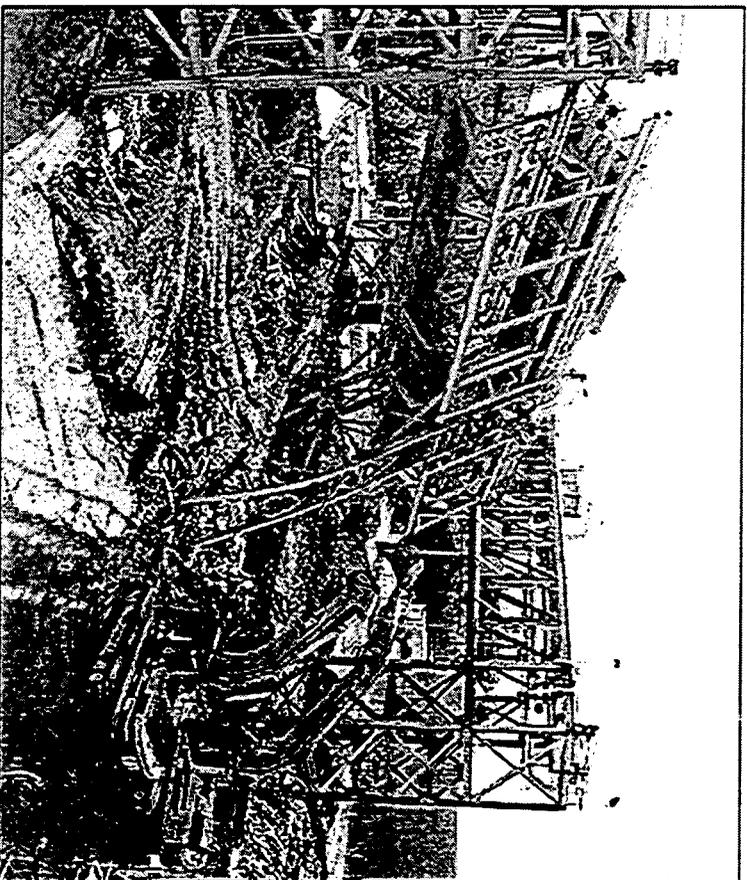
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STRUCTURAL DEMOLITION PIPE BRIDGE



8119D-7

CONNECTOR BRIDGE



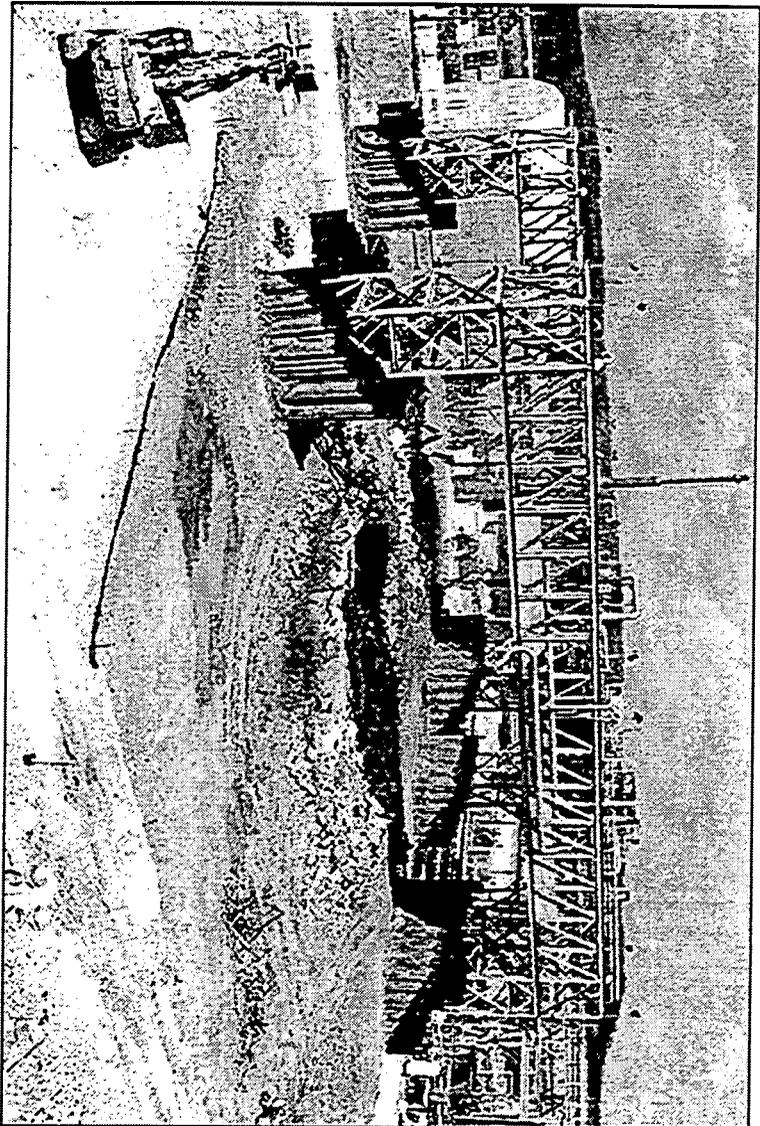
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CROSSOVER BRIDGE

84174 10/05

**FERNALD**
Closure Project

**STRUCTURAL DEMOLITION
COMPONENT 34B AND 34A – SILOS 1 AND 2**



73851D-4656

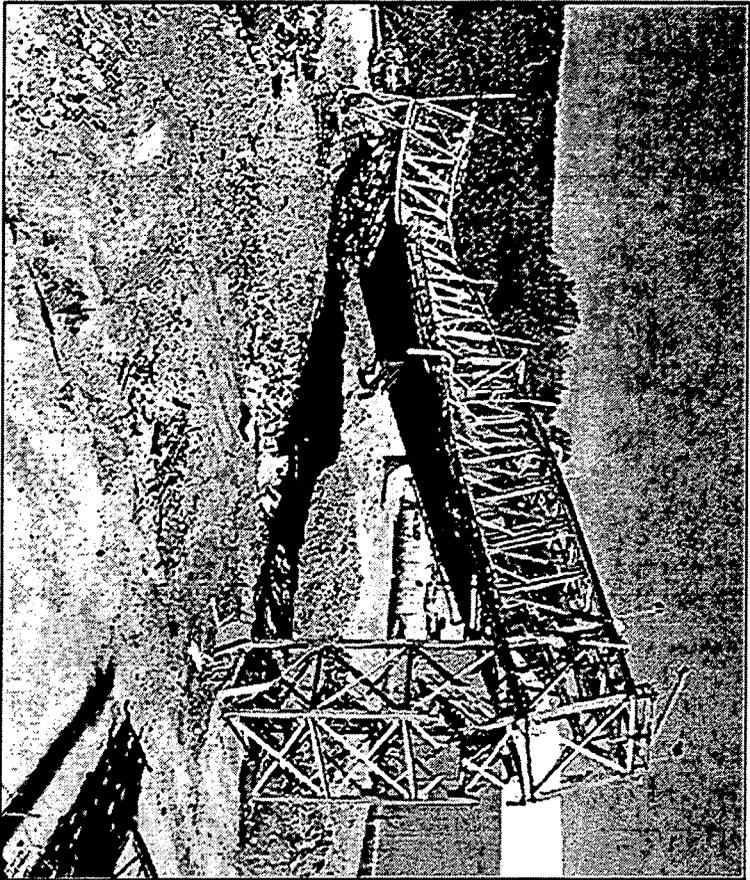
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STRUCTURAL DEMOLITION SILO 2 BRIDGE



7385D-4743



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8417.6 10/05



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