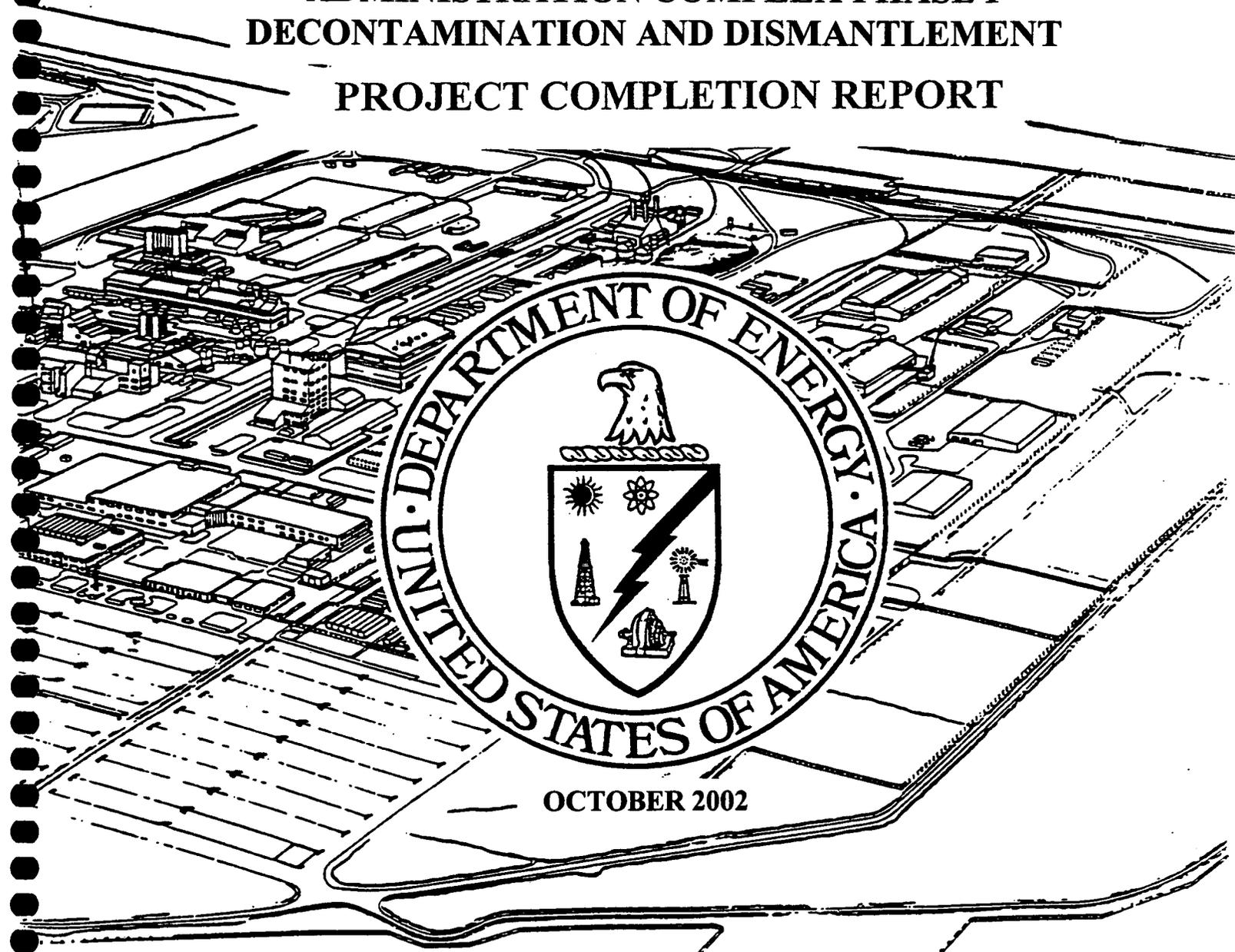


**OPERABLE UNIT 3**  
**ADMINISTRATION COMPLEX PHASE I**  
**DECONTAMINATION AND DISMANTLEMENT**  
**PROJECT COMPLETION REPORT**



OCTOBER 2002

**FERNALD ENVIRONMENTAL MANAGEMENT PROJECT**  
**FERNALD, OHIO**

**U.S. DEPARTMENT OF ENERGY**  
**FERNALD AREA OFFICE**

**DOCUMENT CONTROL NO. 1789-RP-0002 (REV.0)**

**000001**

# OPERABLE UNIT 3

## PROJECT COMPLETION REPORT

### ADMINISTRATION COMPLEX PHASE I DECONTAMINATION AND DISMANTLEMENT



OCTOBER 2002

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

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**PROJECT COMPLETION REPORT  
ADMINISTRATION COMPLEX PHASE I D&D**

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**ATTACHMENTS**

Attachment 1 IIMS Information (Integrated Information Management System)  
Attachment 2 Photos

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## 1.0 PROJECT SUMMARY

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The decontamination and dismantlement (D&D) of Building 53A from the above-grade Administration Complex D&D project was performed successfully and in accordance with the project planning/design requirements specified in the Administration Complex Implementation Plan (DOE, 2002). As required by the Implementation Plan, this document serves as the Administration Complex Phase I 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 D&D execution of Building 53A began on February 19, 2002 with the mobilization of the D&D Contractor. Project completion was achieved on August 22, 2002 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 Administration Complex Phase I D&D project included the following major activities:

- asbestos abatement/removal;
- perchloric fume hood washdown;
- above-grade component dismantlement; and
- material management.

Section 2 presents a component-specific remediation summary. Material Management is discussed in Section 3. Environmental monitoring results conducted in support of the project are presented in Section 4. Lessons-learned have also been compiled and are presented in Section 5.

The following component was included in the scope of the Administration Complex Phase I D&D project:

- Building 53A – Health and Safety Building

### 1.1 Description of Component

Building 53A was located north of the former Industrial Relations/Security Building, south of 1<sup>st</sup> Street, east of the Services Building (Building11) and west of the main access road to the former production area. The location of Building 53A is shown in Figure 1-1.

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1.2 Project Chronology

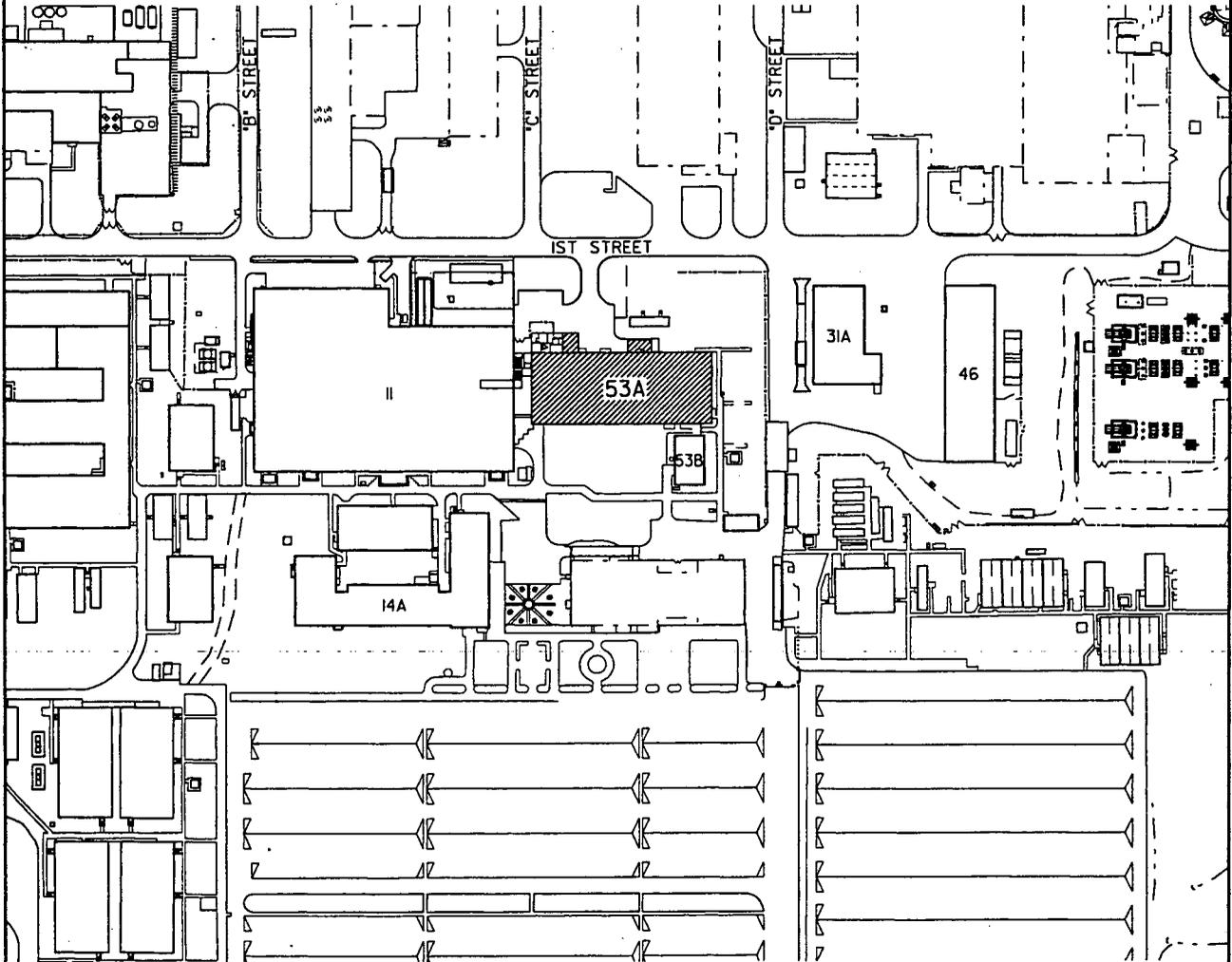
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Table 1-1 lists the chronology of above-grade D&D activities for Building 53A:

**TABLE 1-1 D&D Chronology**

<b>ACTIVITY</b>	<b>START</b>	<b>FINISH</b>
Notice To Proceed	1/23/02	8/15/02
Mobilization/Demobilization	2/19/02	8/22/02
Building 53A Structural Dismantlement:	6/3/02	8/3/02
Building 53A Debris Size Reduction and Containerization:		8/15/02
Completion of Field Activities (CFA)		8/22/02

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Figure 1-1 Building 53A

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## 2.0 REMEDIATION APPROACH

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### 2.1 Preparatory Actions

Facilities Shutdown activities were performed by FEMP personnel and were completed in Building 53A on April 25, 2002. Facilities Shutdown activities consisted of:

- removal of chemicals; and
- disconnection of all utilities

### 2.2 Component-Specific Remediation Summary

#### 2.2.1 Building 53A – Health and Safety Building

##### *Background*

Building 53A, (Health and Safety Building), was a rectangular, multi-level building measuring approximately 89 feet x 221 feet x 22 feet high, with two floors and a partial basement under the west section. The building consisted of cement block construction on reinforced poured concrete footers and floors, flat reinforced poured concrete roofs and glass windows.

Building 53A contained three process areas: offices, medical services and security communications headquarters. Offices and conference areas existed on both main floors. The medical services area of the building housed equipment for emergency medical attention, routine examination and testing, X-ray testing, medical laboratory and offices. Site security used much of the basement as a communications center.

##### *Remedial Tasks*

Asbestos abatement removal included floor tile from two locations, a small amount of piping, two dumb waiter (elevator) doors, a transite lab counter top and cabinet liner. ACM roofing felts were identified on the west portion of the roof. Wet methods were used during demolition of the west portion of the roof and the building was demolished with the roofing felts left in place. Mold abatement was performed in the basement and on the second floor. Lead flashing was removed from the roof and X-ray room. Equipment dismantlement and washdown was performed on the perchloric fume hood and associated drain trap to ensure removal of any residual perchloric particulate. The dismantled perchloric fume hood was then left in place and taken down with the building demolition. Windows from the atrium and main structure were removed and the 53A structure was dismantled using a hydraulic shear. Materials generated during the dismantlement of Building 53A included the asbestos containing materials (floor tile, piping, dumb waiter doors, counter top, cabinet liner and roofing felts), office equipment and furniture, piping & conduit, structural & miscellaneous steel, CMU block, roofing material and doors & windows.

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*Photos*

Photos 1 through 8 of Attachment 2 show the following activities for the D&D of Building 53A:

- 1 - Shearing dismantlement activity.
- 2 - Shearing dismantlement activity.
- 3 - Shearing dismantlement activity.
- 4 - Shearing dismantlement activity.
- 5 - Atrium shearing dismantlement activity.
- 6 - Partially dismantled structure.
- 7 - Dust control activity.
- 8 - Shearing dismantlement activity.

**3.0 MATERIAL MANAGEMENT**

*Generated Debris*

Debris generated from the D&D of Building 53A was size reduced, and containerized in accordance with the requirements identified by the Material Segregation and Containerization Criteria (MSCC).

Containerized materials that have been disposed of in the FEMP On Site Disposal Facility (OSDF) are presented in Table 3-1. This information is identified in the Integrated Information Management System (IIMS) report, shown as Attachment 1. IIMS reports represent activities associated with materials generated by the project that either have been or are destined for disposition in the OSDF.

**TABLE 3-1 Waste Containers For Placement In The OSDF:**

Container Type	Debris Category	Profile	OSDF Code	Volume (cu. yds.)	Number of Containers
ROB	A, B, D, Incidental E (Metal/Concrete)	92101	2	6596	501
ROB	E (Concrete)	922007	2	80	4
ROB	I-2 (Compressible)	92023 and 923101	2	50	2
ROB Total				6726	507

The small quantity of non-regulated ACM removed during this project (floor tile, piping, dumb waiter doors, lab counter top and cabinet liner) has been added to the Plant 2 non-regulated ACM for disposition.

**4.0 ENVIRONMENTAL MONITORING**

No project-specific or supplemental environmental monitoring was required for Building 53A. Results of the air monitoring data recorded at the FEMP boundary from February through August 2002 are presented in Section 4.1.

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#### 4.1 Radiological Air Monitoring *Air Monitoring Data Recorded at FEMP Boundary*

The IEMP environmental radiological air emissions data from the monitoring period of February 2002 through August 2002 indicated total uranium concentrations that were within historical ranges of concentrations measured at the FEMP boundary.

Typical spring emissions patterns include sporadic, short-term increases in fence line airborne concentrations due in part to turbulent weather and increased work activities. The total uranium concentrations averaged less than one half of one percent of the DOE maximum off-site guideline of 0.1 pCi/m<sup>3</sup>. Historical fence line 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/m<sup>3</sup>. The maximum uranium concentration (at AMS-8A) was 0.0018 pCi/m<sup>3</sup>, which represents less than two percent of the DOE standard. The relationship between 0.1 pCi/m<sup>3</sup> 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/m<sup>3</sup> 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 uranium data from AMS-8A suggest that emissions from the Building 53A D&D project have not significantly affected compliance with DOE guidelines. Furthermore, the uranium emissions from the Building 53A D&D project have not significantly affected compliance with NESHAP Subpart H limit of 10 mrem per year.

The locations of boundary (IEMP) fence line monitors are shown in Figure 4-1. The closest downwind monitors AMS-3, AMS-8A, and AMS-9C (which historically show the maximum downwind values for the site) indicated average total uranium concentrations during the D&D Project of 0.00025, 0.00033, and 0.00032 pCi/m<sup>3</sup> respectively. These concentrations represent less than one third of one percent of the 0.1 pCi/m<sup>3</sup> guideline and are within historical ranges of similar D&D projects.

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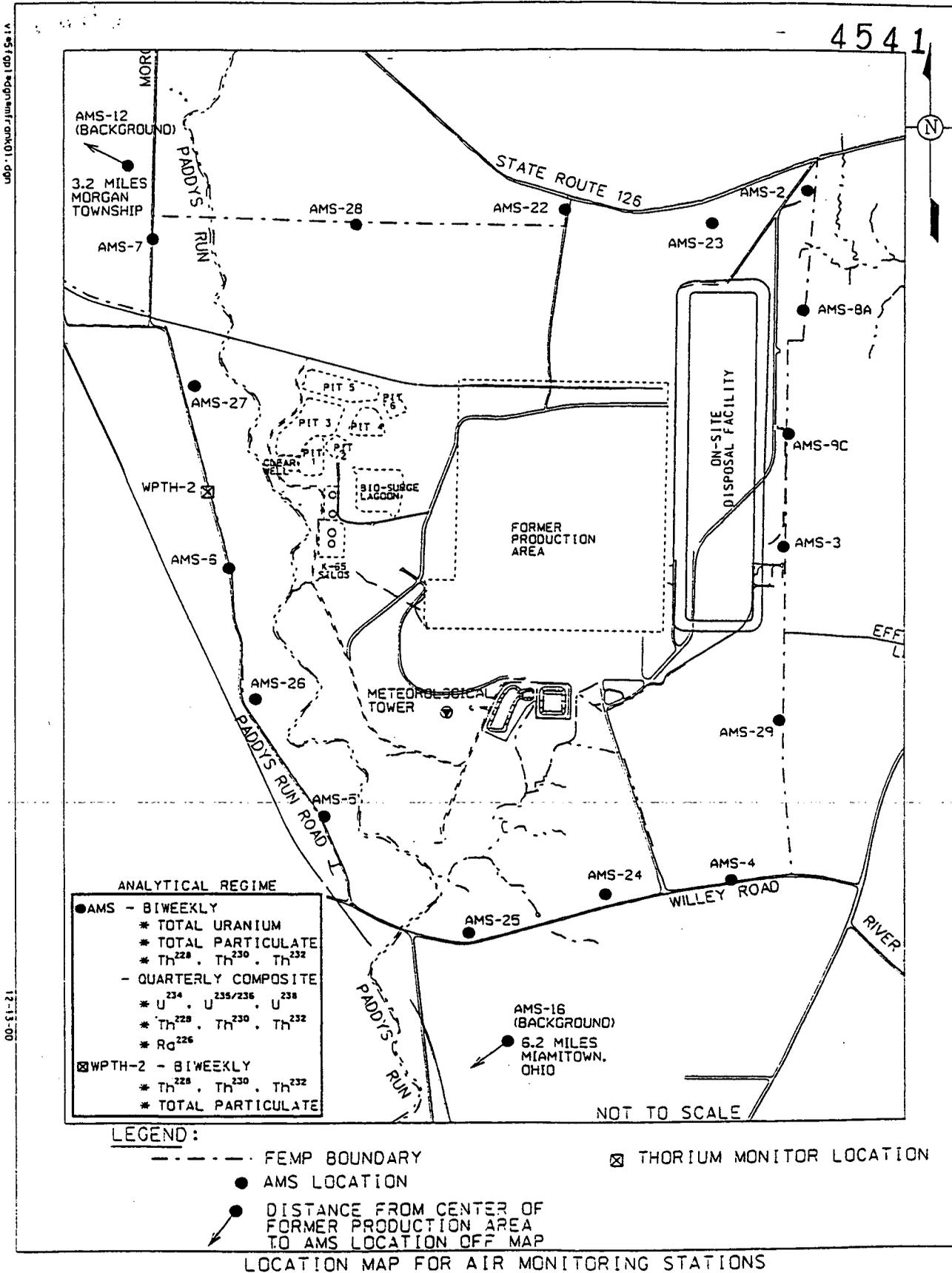


Figure 4-1 FEMP Sitewide Air Monitoring Locations

## 5.0 LESSONS LEARNED

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### 5.1 Commingling of Debris From Category I with Category A, B, D and Incidentally Generated E

*Direct placement of debris in the OSDF allows for commingling.*

The Demolition Closure Contract Specifications required that Debris Category I be segregated and containerized separately from Debris Categories A, B, D and incidentally generated E. This requirement was based on radiological requirements relating to the stockpiling of Category A, B, D and E debris prior to placement into the On-Site Disposal Facility (OSDF). On the contrary, Category I debris of the same radiological nature remained in roll-off boxes (prior to OSDF placement) to prevent insulation and drywall degradation due to wind and weather.

Since the Administration Complex D&D debris was to be placed in roll-off boxes for direct placement into the OSDF, the Demolition Closure Contract Specifications were revised to allow Administration Complex Category I debris commingling with Category A, B, D and E debris. Commingling of debris is only permitted for Administration Complex components that are dismantled during the OSDF's seasonal operating period.

This commingling method allowed for a more efficient handling and placement of debris in the OSDF.

### 5.2 Equipment Breakdowns Slows Dismantlement Process

*Shear Equipment Breakdowns Slow the Dismantlement of Building 53A.*

Several shear equipment breakdowns delayed dismantlement of Building 53A. Due to an insufficient staff of maintenance and repair personnel, response time to the breakdowns was long. Although the Contractor's ability to address the breakdowns was slow, these delays did not impact the scheduled completion date. The Contractor has replaced one mechanic and employed three additional mechanics so that future breakdowns can be addressed more quickly.

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**ATTACHMENT 1**

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

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**INTEGRATED INFORMATION MANAGEMENT SYSTEM  
(IIMS)**

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The following report represents activities associated with materials generated by the M/TF Project that have been destined for disposition in the OSDF. The report contains both containerization and stockpiling activities and serves as the reporting system that is tied into the Site-Wide Information Forecasting and Tracking System (SWIFTS). Below is a key to interpret the column headings.

Column 1 – FORM NO

Same as the Field Tracking Log Number.

Column 2 – PROJECT DESCRIPTION

A project number that has been assigned for waste purposes.

Column 3 – PROFILE

OSDF Material Profile Number.

Column 4 – DESCRIPTION

Description of material in terms of Category and OSDF CODE.

Column 5 – MTL TO

Indicates destination of the material.

Column 6 – TYP

F = Facility

Column 7 – VOLUME

Cubic Yards of Material

Column 8 – DATE

Date of Transaction

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WAO Integrated Information Management System  
 MTL Source Summary Report

Location From: B53-001

Form No	Proj Description	Profile	Description	Mtl to	Typ	Volume	Date
20422	610 BUILDING 53 COMPLEX D&D	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.	W135937	F	25	04/23/2002
20302	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	114	F	25	06/04/2002
20303	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	107	F	25	06/04/2002
20304	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	102	F	25	06/04/2002
20306	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	103	F	25	06/04/2002
20310	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	104	F	25	06/05/2002
197027	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197029	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197031	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
20738	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	103	F	30	06/08/2002
20737	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	117	F	25	06/08/2002
20722	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	111	F	25	06/08/2002
197100	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197099	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197032	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197030	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
197028	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	25	06/10/2002
20316	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	102	F	25	06/05/2002
197046	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
197045	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
197044	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197043	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197042	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197041	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197040	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197037	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
197039	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	15	06/18/2002
200990	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/19/2002
200989	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/19/2002
200988	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/19/2002
200978	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/19/2002
200981	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
200980	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
200979	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
200977	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
200976	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSDF	F	12	06/18/2002
18877	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSD-035	F	156	07/09/2002
18878	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSD-035	F	84	07/02/2002
18892	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY "A", "B", "D" AND INCIDENTAL "E" DEBRIS (OSDF CAT. 2)	OSD-035	F	180	07/03/2002

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Location From: B53-001

MTL Source Summary Report

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200834	610 BUILDING 53 COMPLEX D&D	92101	COMINGLED CATEGORY 'A', 'B', 'D' AND INCIDENTAL 'E' DEBRIS (OSDF CAT. 2)	OSDF	F	12	08/07/2002
17303	610 BUILDING 53 COMPLEX D&D	922007	CATEGORY 'E' CONCRETE, ASPHALT, OSDF CODE 2	116	F	20	06/08/2002
20721	610 BUILDING 53 COMPLEX D&D	922007	CATEGORY 'E' CONCRETE, ASPHALT, OSDF CODE 2	108	F	20	06/08/2002
17637	610 BUILDING 53 COMPLEX D&D	922007	CATEGORY 'E' CONCRETE, ASPHALT, OSDF CODE 2	W176764	F	20	06/08/2002
20740	610 BUILDING 53 COMPLEX D&D	922007	CATEGORY 'E' CONCRETE, ASPHALT, OSDF CODE 2	W136812	F	20	06/08/2002
17716	610 BUILDING 53 COMPLEX D&D	923101	CATEGORY 'I' MISC. DEBRIS, OSDF CODE 2 - MISCELLANEOUS ITEMS INCLUDING WINDOWS, BUILD-UP ROOFING, POLYVINYL CHLORIDE (PVC) PIPE AND OTHER MISC. DEBRIS.	W151998	F	25	04/08/2002

GPO 9-25-02

Total Volume for the Report: 6738

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**ATTACHMENT 2**

**PHOTOS**

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Photo No.	Roll-Negative No.	Description
1	7565-D79	Shearing dismantlement activity.
2	7565-D108	Shearing dismantlement activity.
3	7565-D115	Shearing dismantlement activity.
4	7565-D116	Shearing dismantlement activity.
5	7565-D130	Atrium shearing dismantlement activity.
6	7565-D132	Partially dismantled structure.
7	7565-D148	Dust control activity.
8	7565-D153	Shearing dismantlement activity.

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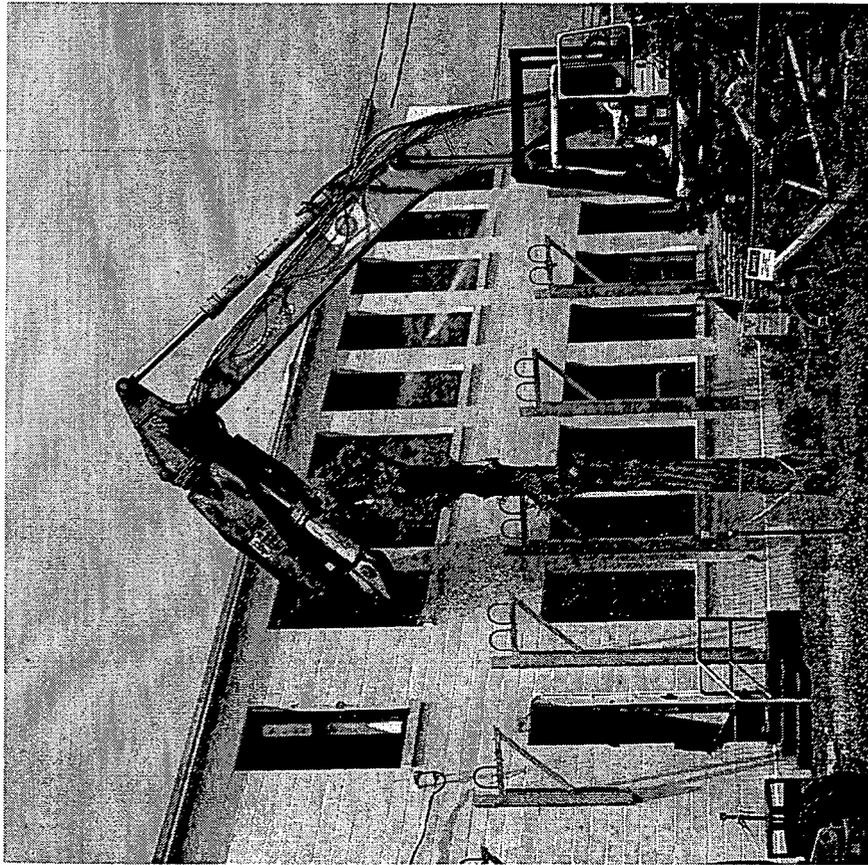


Photo 1: Shearing dismantlement activity.

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Photo # 7565-D79

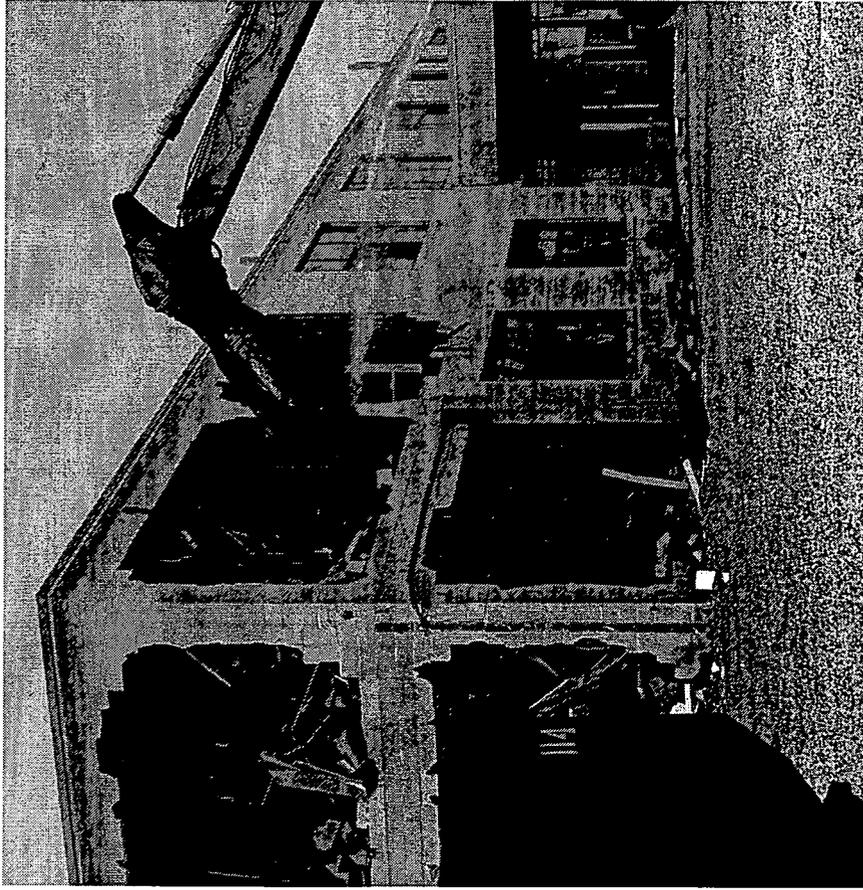


Photo 2: Shearing dismantlement activity.

Photo # 7565-D108

# 53A - Safety & Health Building

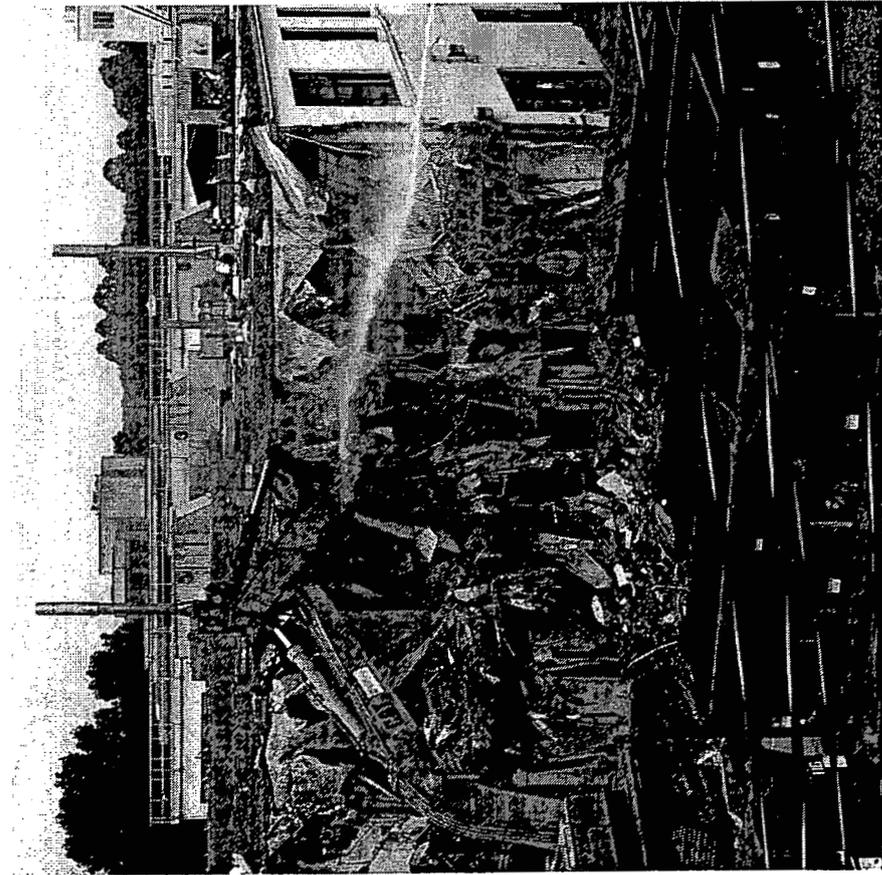


Photo 3: Shearing dismantlement activity.

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Photo # 7565-D115



Photo 4: Shearing dismantlement activity.

Photo # 7565-D116

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# 53A - Safety & Health Building



Photo 5: Atruim shearing dismantlement activity.

Photo # 7565-D130



Photo 6: Partially dismantled structure.

Photo # 7565-D132

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# 53A - Safety & Health Building



Photo 7: Dust control activity.

Photo # 7565-D148



Photo 8: Shearing dismantlement activity.

Photo # 7565-D153

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