OVERSIZE PAGES

LOCATED AT

END OF

DOCUMENT

3005-0302180007

BWX Technologies, Inc.
a McDermott company

BWXT of Ohio, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, Ohio 45343-3030
(937) 865-4020

ER-025/01
July 30, 2001

01-TC/07-30

Mr. Richard B. Provencher, Director
Miamisburg Environmental Management Project
U. S. Department of Energy
P. O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Ronald Church

SUBJECT: Contract No. DE-AC24-97OH20044
BUILDING 85 BUILDING DATA PACKAGE

REFERENCE: Statement of Work Requirements C 7.1d – Regulator Data Requests

Dear Mr. Provencher:

Rob Rothman from your office has approved the release to USEPA, OEPA, ODH, MMCIC, and the Public Reading Room of the Public Review Draft of the enclosed Building 85 Building Data Package. Also enclosed is a copy of the *Miamisburg News* advertisement announcing the public review. The public review period will be August 2 through September 1, 2001.

If you have any questions regarding the documents, please contact Dave Rakel at Extension 4203.

Sincerely,

J S Stapleton for Monte Williams

Monte A. Williams
Manager, Environmental Safeguards & Compliance

MAW/RCR:mlm

Attachment - As Stated

cc: Tim Fischer, USEPA, (1) w/attachment
Brian Nickel, OEPA, (2) w/attachment
Ruth Vandegrift, ODH, (1) w/attachment
John Ebersole, DOE/OH, (1) w/attachment
Dann Bird, MMCIC, (2) w/attachment
Ron Church, DOE/MEMP, (1) w/attachment
Robert Rothman, DOE/MEMP, (2) w/attachment
Robert Ransbottom, BWXTO, (1) w/attachment
C. D. Thompson, BWXTO, (1) w/attachment
Public Reading Room, (5) w/attachment
DCC

MOUND

Environmental Restoration Program

MOUND PLANT POTENTIAL RELEASE SITE PACKAGE

Notice of Public Review Period

The following Building Data Package (BDP) is available for public review in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio. Public comment on this document will be accepted August 2, 2001 through September 1, 2001.

BDP Building 85: Powder Blend/Process

Questions can be referred to Paul Lucas at (937) 865-4578.

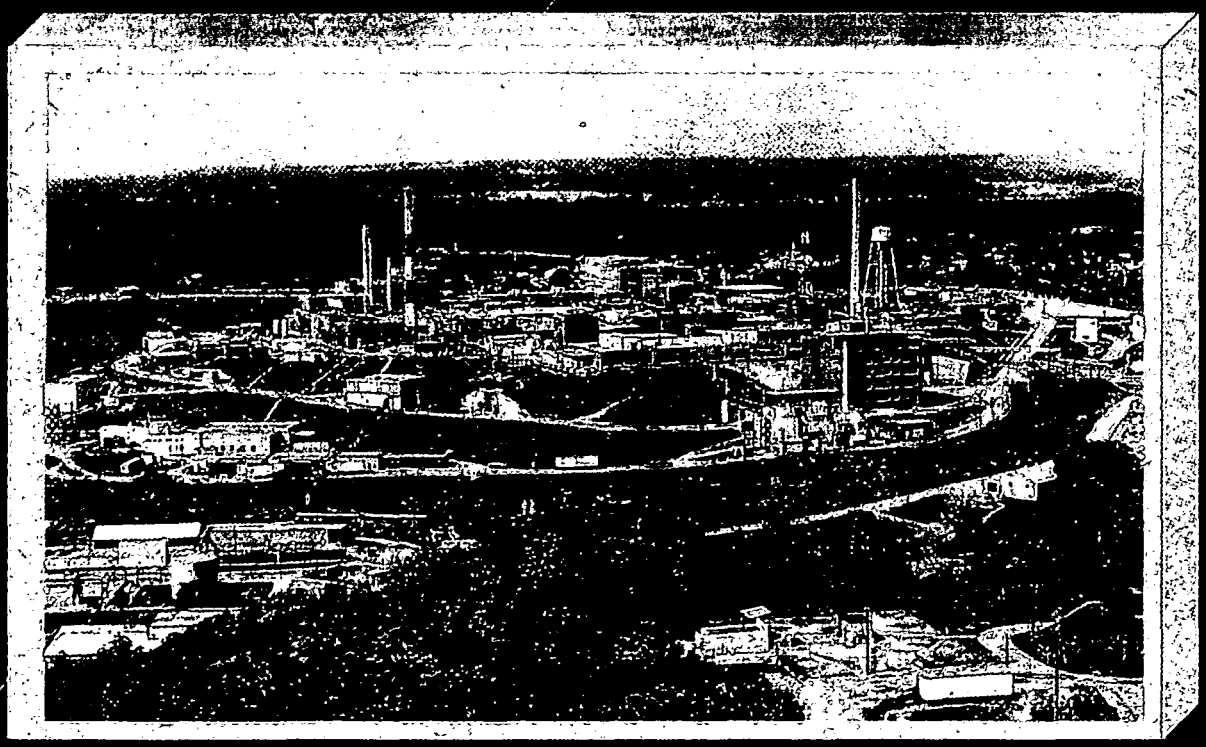
3005-0302180007

MOUND

Environmental Restoration Program

OhioEPA

MOUND PLANT
Building Data Package
Building 85
Located within Parcel 9

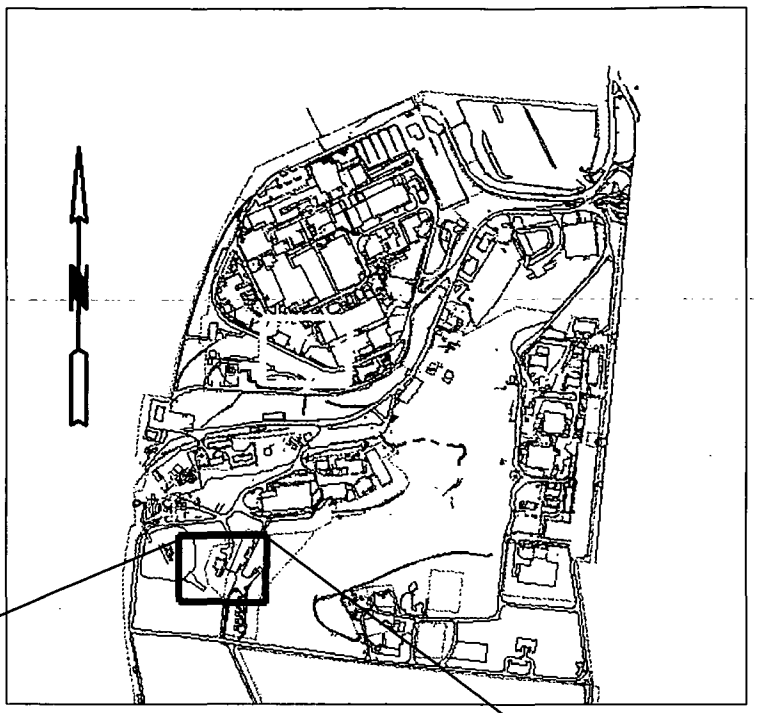


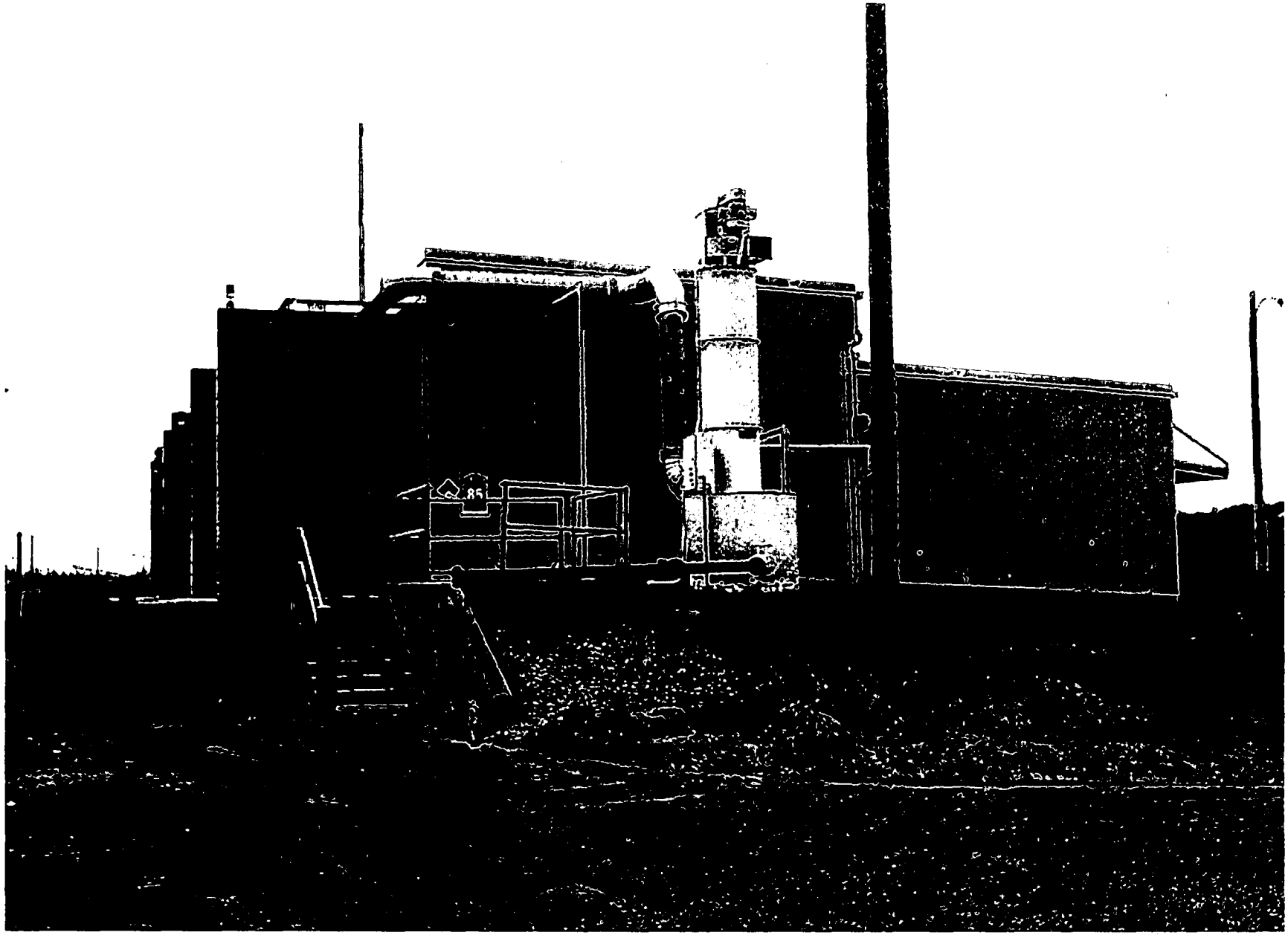
BDP Building 85

REV	DESCRIPTION	DATE
WORKING DRAFT		July 25, 2001
DRAFT		July 26, 2001
DRAFT PROPOSED FINAL		July 26, 2001
PUBLIC REVIEW DRAFT		July 30, 2001
FINAL		

Figure 2
Mound Plant
Building 85
Powder Blend/Process
Parcel 9

On the map below:
- Building number and location shown in black
- PRS locations and numbers shown in blue
- Surrounding buildings shown in tan
- Fencing shown in red
- Elevation contours shown in brown




85

BUILDING DATA PACKAGE (BDP)

Building 85

(Construction Demolition)

DOE MOUND PLANT

MIAMISBURG, OHIO 45343

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1.0 General Overview

1.1 Introduction

The purpose of this Building Data Package (BDP) is to identify, if possible, any recognized environmental conditions (defined below) that may affect the subject property.

Recognized Environmental Condition - The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a likely release, a past release, or a material threat of a release of any hazardous substances or petroleum into structures, or into the air, ground, groundwater, or surface water near the building.

1.2 Scope

This document has been prepared in accordance with the agreements and requirements as specified in the *Work Plant for Environmental Restoration of the DOE Mound Site, The Mound 2000 Approach.* This document is a BDP for Building 85 located at the DOE Mound Plant in Miamisburg, Ohio. This investigation was performed to support procedures as found in ASTM Standard Practice for Environmental Site Assessments; Phase I Environmental Site Assessment Process (Designation E 1527-97).

The scope of the investigation included the building, the soil beneath, and a 15-foot wide perimeter border around the building. Soil sampling results are noted in Appendix L. This perimeter includes roadways, sidewalks, pavement, and grass covered areas. The investigation of Building 85 included the following.

1) A building and perimeter inspection.
2) An examination of historical aerial photographs and maps.
3) A review of federal and state regulatory agency records.
4) Personnel interviews.
5) A review of Mound Plant records for:
   A) History of spills and releases
   B) Past sampling data
      - Radiological survey
      - Soil sampling
      - Lead paint
      - Asbestos
      - Radon

Building investigations were conducted by BWXTO personnel.

This report used a variety of previous assessments completed by BWXTO or previous site contractors, and/or their subcontractors. The reports used were as follows:

- Characterization of Mound's Hazardous, Radioactive, and Mixed Wastes, August 1990
- OU-9 Site Scoping Report, Volumes 1-12
- Mound Facility Physical Characterization, December 1992
- Active Underground Storage Tank Plan, November 1994
- OU-9 Hydrological Investigation, Bedrock Report, January 1994
- OU-9 Hydrological Investigation, Buried Valley Aquifer Report, March 1994
- Environmental Appraisal Report of the Mound Plant, March 1996
- Title Search
- Lease Information
- EDR Report - Radius Map
- Building Prints
- PRS Information
- MD-222153, Mound Site Radionuclides By Location, July 1995 Contaminant Surveys
- MLM-3791, Mound Facility Physical Characterization, December 1993

2.0 Building Specific Overview

Mound Plant is located in the southern portion of the corporation limits of Miamisburg, Ohio. The entire Mound Plant facility is situated on approximately 300 acres of land and contains approximately 130 buildings. The subject property consists of Mound Plant Building 85, the soil beneath, and a 15-foot wide perimeter around the Building. Building 85 contains 3,160 square feet. It was constructed in 1989. No waste was stored in Building 85. See Appendix D.

2.1 Current Uses of Building 85

Building 85 is currently inactive. It was never put into service.

2.2 Past Uses of Building 85

Building 85 was built as a Class I Powder Processing Facility. The building was never used in any capacity.

2.3 Summary of Environmental Concerns and Findings - Building 85

DESCRIPTION	COMMENT*	RESOLUTION
Lead Paint	N/A	
Chemicals	N/A	
Fluorescent Lamps and PCBs	Fluorescent lamps were utilized in the building. Ballasts may contain PCBs.	All fluorescent lamps and PCB containing ballasts will be removed prior to demolition.
Asbestos	N/A	
Drainage Sumps	N/A	
Lead	N/A	
HVAC	N/A	
Mercury	N/A	
Radiological	N/A	
Septic System	N/A	
Waste Water	N/A	
Stains & Corrosion	N/A	
Space	N/A	
Storage Tanks	N/A	
Solid Waste Disposal	N/A	
Migratory Hazards	N/A	
Radon	N/A	
Energetic Material	N/A	

*N/A denotes: Not a contaminant of concern.

2.4 Radiological Characterization Summary for Building 85

An assessment of Building 85 was performed based on operational history and previous radiological survey data. It was determined that the building is non-impacted from a MARSSIM standpoint. However, surveys were taken of several pieces of furniture and equipment. Samples were also taken of water in an adjacent sump and the soil will be surveyed when the slab is removed. See Appendix G for supporting documentation.

TYPE	RSDS (Note 3)	LOCATION	SURVEY RESULTS (dpm/100 cm^2)	SURFACE CONTAMINATION GUIDELINES (dpm/100 cm^2) (Note 2.)	COMMENTS
Highest Alpha Smearable Activity	00-TF-258	Equipment	6.01	20	
Highest Alpha Fixed Activity	Note 1	Note 1	<100	100	
Highest Beta Smearable Activity	00-TF-268	Equipment	5.79	1,000	
Highest Beta Fixed Activity	Note 1	Note 1	<5,000	5,000	
Highest Tritium Smearable Activity	00-TF-258	Equipment	262	10,000	

Note 1: All RSDSs associated with the surveys were <100 dpm/100 cm^2 alpha and <5000 dpm/ 100 cm^2 beta.
Note 2: Core Team determined values.
Note 3: Data sheet that provides radiological monitoring survey results.

2.5 Associated PRS Table for Building 85

See Appendix N and Paragraph 4.2.3. Also note Mound Plant graphical depiction located in introduction to this Building Data Package.

PRS #	CERCLA or BLDG. RELATED	BINNING STATUS	COMMENTS
PRS 71	CERCLA	NFA 10/19/95	Bldg. 85 Waste Solvent Tank

3.0 Site Description

3.1 Site/Vicinity Location and Characteristics

Building 85 is located at the U.S. Department of Energy Facility known as Mound Plant. Mound Plant is situated in the city of Miamisburg, Miami Township, Montgomery County, state of Ohio. See Appendix B.

The Mound facility is situated on approximately 300 acres of land and contains approximately 130 buildings with a total of approximately 1.4 million square feet of floor space (the number of buildings is constantly diminishing as buildings are decommissioned and either sold or demolished). The original 182-acre site, purchased by the Manhattan Engineer District in 1946, consists of two hills and an intervening valley that runs approximately east and west. Building 85 is located in the lower valley of the Plant site. The 124-acre tract acquired in 1981 is an undeveloped mixture of fields and woods that undulates and slopes downward to the west, away from the main site. This area was acquired to serve as a buffer and has been used as a staging area and parking area for contractors working on-site. See introductory maps and Appendix C.

To the west lies a railroad line and the north south trending Miami-Erie Canal. The northern boundaries of the site abut the residential area of Miamisburg, Ohio. Mound Road marks the northern half of the eastern perimeter of the facility then veers east, away from the southern half of the eastern boundary. A public golf course (belonging to the City of Miamisburg), the Miamisburg Mound Memorial Park, old agricultural fields, residential lots, and vacant wooded lots border against the facility along Mound Road. Benner Road forms the southern property line of the Mound Plant, with agricultural fields and farms occupying the lands beyond.

3.2 Description of Structures, Roads, Other Improvements Related to Building 85

The subject property consists of the Mound Plant Building 85 footprint, the soil beneath, and a 15-foot wide perimeter around the building. Building 85 is a one story, 3,160 square foot structure. It is a reinforced concrete structure, with a reinforced concrete roof. It was constructed in 1989.

There are no other structures, roads, or improvements that would impact the environmental condition of the building.

3.3 Current and Past Uses of Buildings In Proximity To Building 85

There are no buildings in the immediate proximity to Building 85.

4.0 Records Review

4.1 General/Historical CERCLA Information

In compliance with permit requirements under RCRA, the Clean Water Act (CWA), the Safe Drinking Water Act (SDWA), and the Clean Air Act (CAA), Mound Plant has applied for or has received permits for its surface water discharges, air emissions, and hazardous waste program. Mound Plant is currently operating a hazardous waste storage facility under a RCRA Part B permit dated October 18, 1996. Mound Plant also maintains a NPDES surface water discharge permit with Facility I.D. number OH 009857. Permits for the open burning of wastes involving explosives and other fuels have been issued by the Regional Air Pollution Control Agency (RAPCA). Other operations that produce particulate or vaporous emissions are registered with RAPCA and OEPA. Mound Plant also submits annual Emergency and Hazardous Chemical Inventory forms to the OEPA, pursuant to SARA, Title III, the Emergency Planning and Community Right-to-Know Act. The 1998 version of this report indicated that no chemicals are stored in Building 85 in quantities above the regulatory thresholds.

The Mound Plant was identified as a contaminated site on the National Priority List under CERCLA (Superfund) in 1989. The Mound Plant site was originally listed as a consequence of VOC contamination in the western end of the lower valley area. The clean-up of the Mound Site was originally to be accomplished under the CERCLA mandated procedures for regulating Superfund Sites using the operable unit (OU) system to define and characterize clean-up areas. As the clean-up effort went forward, it became apparent that the Mound Site did not fit the profile for a clean-up strategy based on the operable units. The Department of Energy (DOE), the United States Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA) designed a new decision making process for the clean-up of Mound. The new process is known formally as a "removal site evaluation process" and informally as the "Mound 2000 process." The Mound 2000 process system divided Mound into geographical parcels containing over 400 Potential Release Sites (PRSs) with approximately 200 concerned with potentially contaminated soils, and the balance with potential contamination in or associated primarily with building operations. For a more detailed description, refer to the *Work Plan for Environmental Restoration of the DOE Mound Site, the Mound 2000 Approach.*

4.2 Specific Record Sources

4.2.1 Occurrence Reports

None.

4.2.2 Spills and Releases

None.

4.2.3 Associated PRS Overview

As a result of the investigations and documentation accomplished to comply with the CERCLA cleanup process via the FFA/DOE ER Program, DOE and BWXTO have tabulated all the Potential Release Sites (PRSs) identified under the various regulatory programs in effect at the site. Of these 440 PRSs, only PRS 71 is related to Building 85 by proximity of location. See Appendix N.

4.3 Review of Building Prints

Building prints were reviewed and are included in Appendix D.

4.4 Aerial Photographs

Aerial photographs from 1983 and 1994 were reviewed and copies are found in Appendix E.

4.5 Interviews

Past Building Manager, Bob Ward, was interviewed using a building manager questionnaire. See Appendix F. The current Building Manager is Gary Weidenbach.

Appendix A

General Listing of Acronyms

AEA	Atomic Energy Act of 1954
AEC	Atomic Energy Commission
ACM	Asbestos Containing Materials
AL	Action Level
ASTM	American Society for Testing and Materials
BDP	Building Data Package
BUSTR	Bureau of Underground Storage Tank Regulations
BWXTO	BWXT of Ohio
CAA	Clean Air Act
CEG	Conditionally Exempt Generator
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
COD	Chemical Oxygen Demand
CWA	Clean Water Act
D&D	Decontamination and Decommissioning
DOE	U.S. Department of Energy
DPM	Disintegrations Per Minute
EMF	Electromagnetic Field
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration (Program)
ERDA	Energy Research and Development Administration
ERNS	Emergency Response Notification System
FFA	Federal Facility Agreement
FINDS	Facility Index System
FS	Feasibility Study

GSA	General Services Administration
HEPA	High Efficiency Particulate Air
LQG	Large Quantity Generator
LUST	Leaking Underground Storage Tank
M&O	Maintenance and Operations
MARSSIM	Multi-Agency Radiological Survey and Site Investigation Manual
MAT	Mound Applied Technologies
MCC	Monsanto Chemical Company
MEMP	Mound Environmental Management Project
MMCIC	Miamisburg Mound Community Improvement Corporation
MRC	Monsanto Research Corporation
NPDES	National Pollutant Discharge Elimination System
OEPA	Ohio Environmental Protection Agency
ORPS	Occurrence Reporting and Processing System
OU	Operable Unit
PADS	PCB Activity Database
PCB	Polychlorinated Biphenyls
PRS	Potential Release Site
RAPCA	Regional Air Pollution Control Agency
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition

RI	Remedial Investigation
RSDS	Radiological Survey Data Sheet
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
SQG	Small Quantity Generator
SWMU	Solid Waste Management Unit
TRIS	Toxic Chemical Release Inventory System
TSD	Treatment, Storage, & Disposal Facility
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Appendix B

Map of Montgomery County

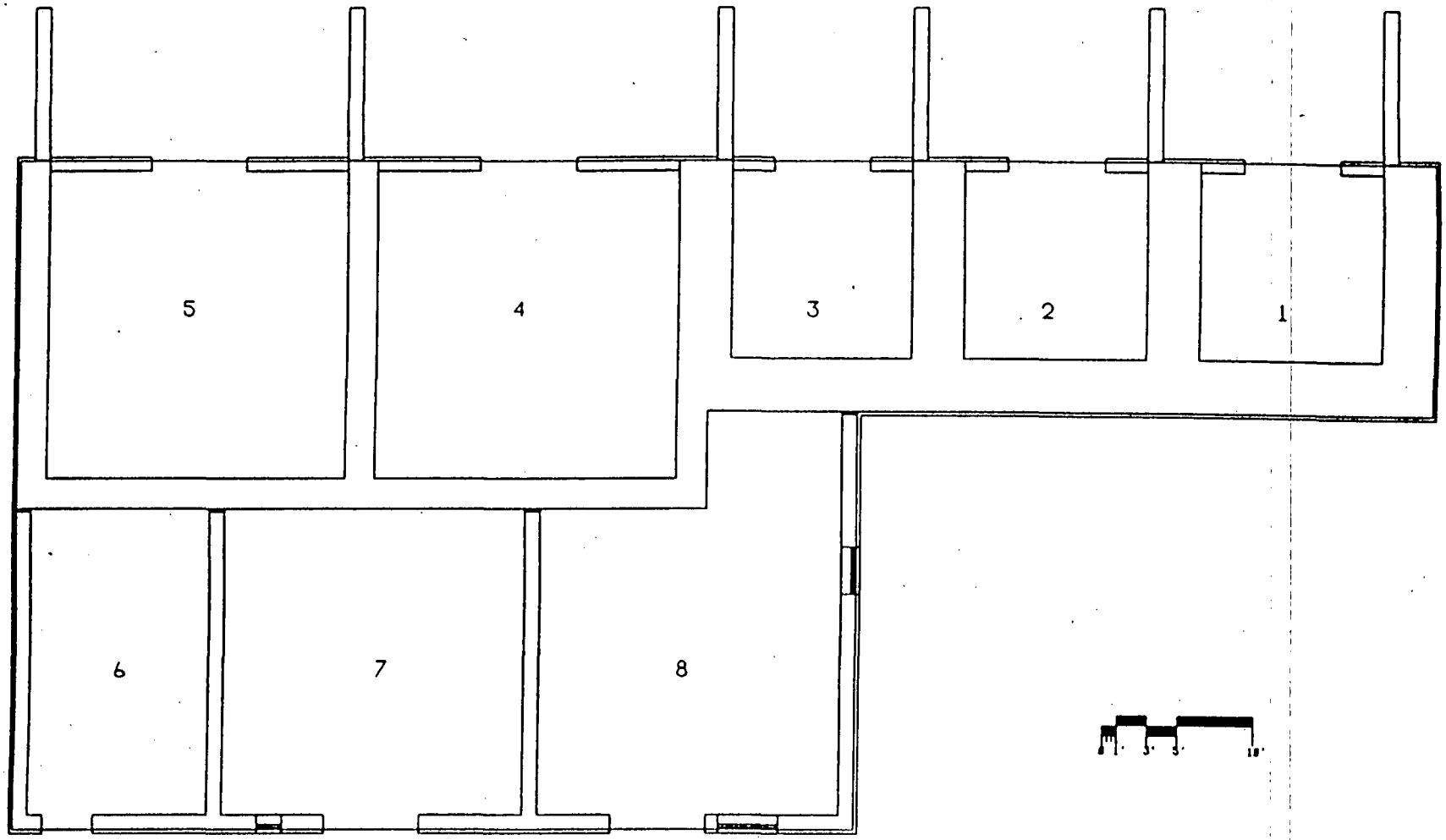
Appendix C

Site Plan

Appendix D

Building Drawings

ISS	DATE	REVISION	BY	CHKD	DWG	LANGE	APVD	R
B	12/12/91	ASBUILT ISSUE	DCW				DVD	



BLDG #85
FIRST FLOOR
BLDG CODE:3085

APPROVALS:	DATE:
SAFETY COMMITTEE REQUIRED:	
___NONE ___TRUEBOC ___TEBOC ___CHBOC	
TECH. REP.	
GR. MGR.	
TRUEBOC	
TEBOC	
CHBOC	

DESIGN DWG	PROJ MGR
BROWSE	DWG SUPV
LA & EE	MECH REV
CONTROL	
APVD	DATE

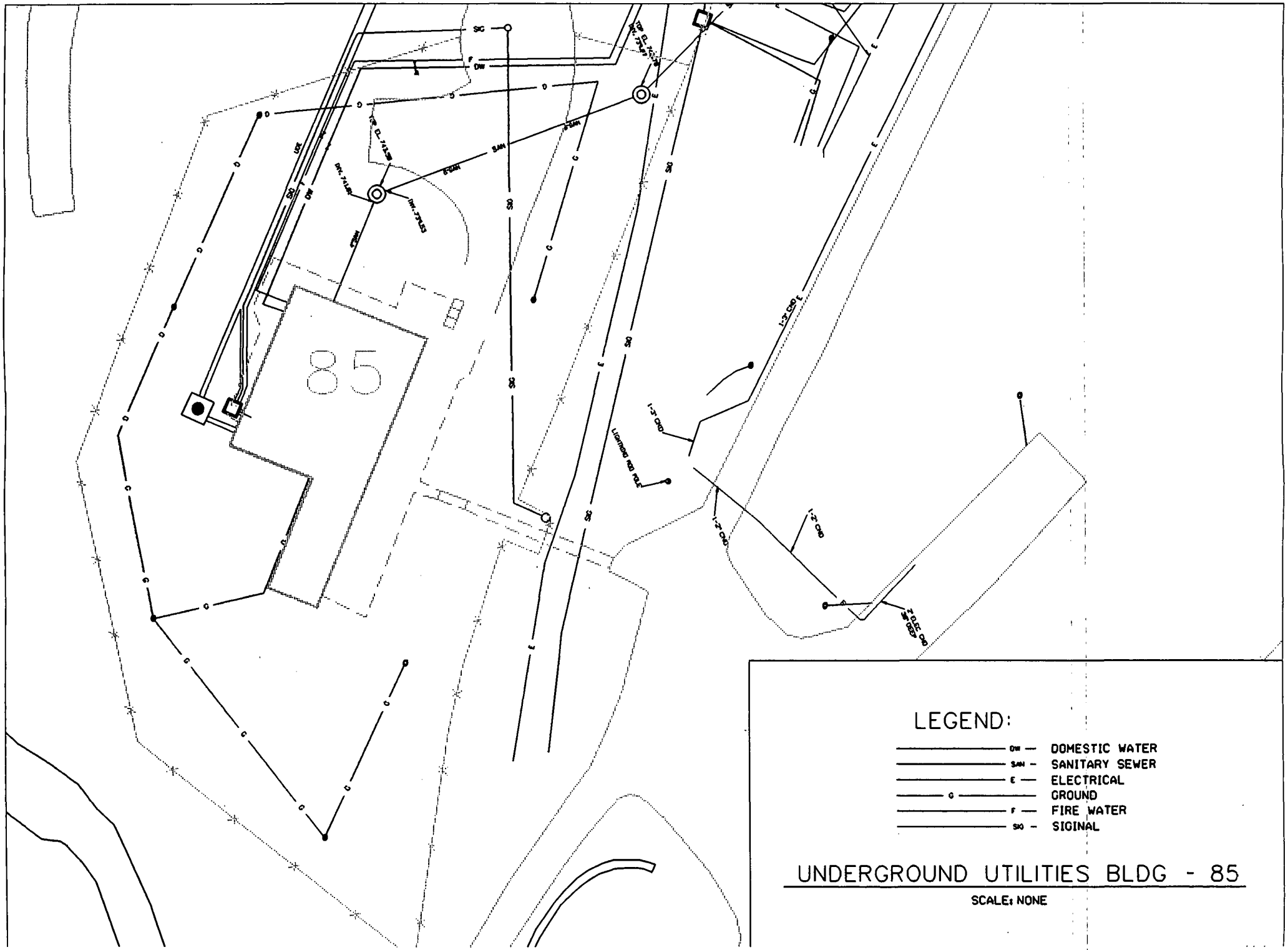
SHEET	1	2	3	4	5	6
ISSUE	B					

PART CLASSIFICATION

TITLE (U) TITLE CLASSIFICATION
BLDG #85
FLOOR PLANS

DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE: C
DRAWING NUMBER: FSC911278
JOB NUMBER: 12335
DWG TYPE: SFP
FROM: BLDG #85
CHANGE: 14863
SCALE AS NOTED
SHEET 1 OF 1
STATUS: MO-REL-12/12/91
ORIGIN: MO-BR3-V3.B

9.93-57



UNDERGROUND UTILITIES BLDG - 85

SCALE: NONE

Appendix E

Aerial Photographs

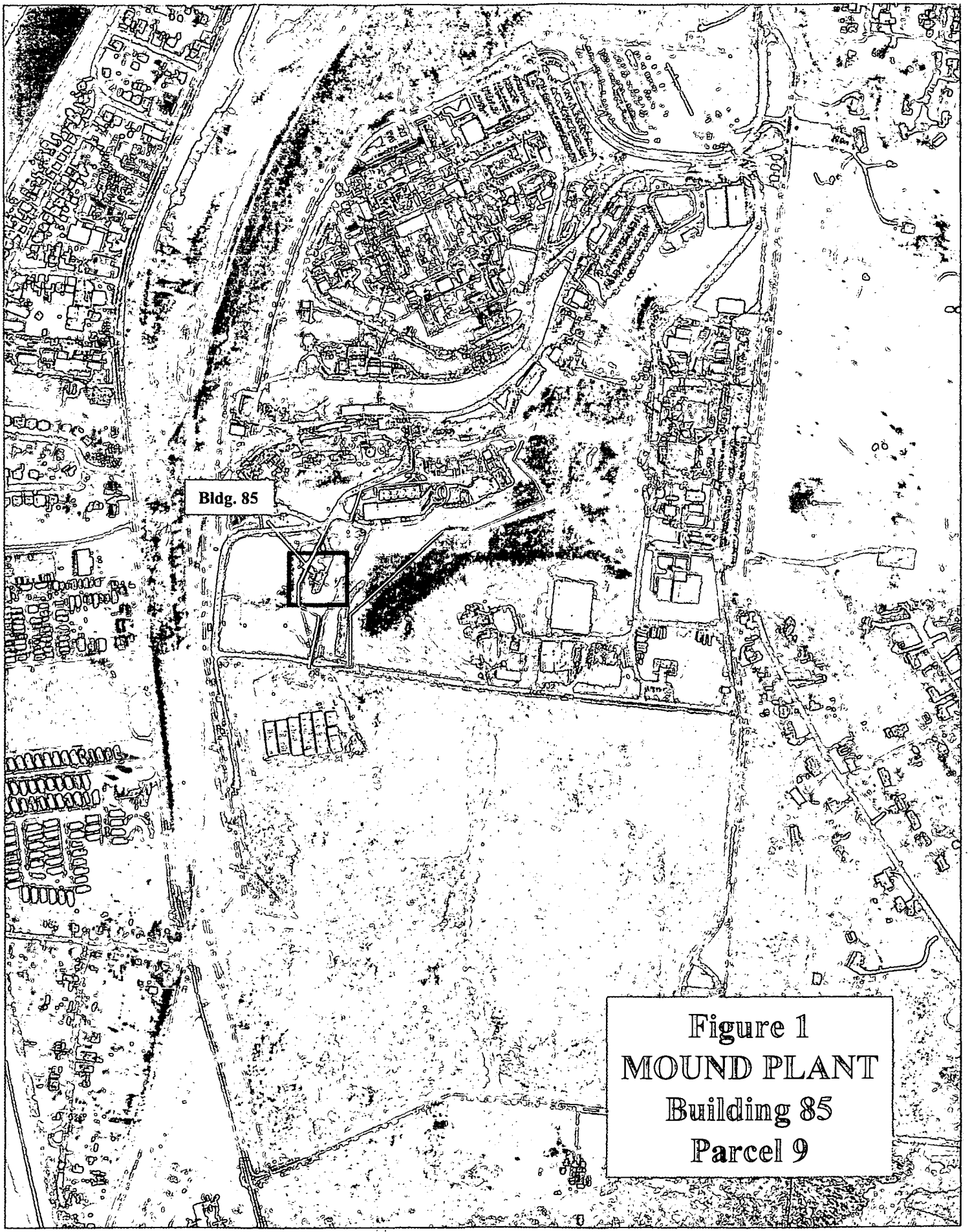


Figure 1
MOUND PLANT
Building 85
Parcel 9

Appendix F

Environmental Appraisal Report of the Mound Plant (Excerpt)

9.93 BUILDING 85

9.93.1 Scope of Building 85 Report

In late 1995 and the early months of 1996, EG&G MAT performed a review of environmental conditions at the Mound Plant. The purpose was to develop a performance baseline, and to identify areas for improvement on a building and a sitewide basis. EG&G MAT did not perform a "due diligence" or Phase I Environmental Site Assessment as specified by ASTM 1527 or ASTM 1528. The scope of the appraisal effort and a discussion of the appraisal methodology are detailed in Sections 2.0 and 5.0, found in Volume 1 of this report.

The appraisal team performed a walk-through of Building 85 on the morning of February 8, 1996. The Environmental Appraisal Checklist (EAC) was used to record findings. The EAC is found in Attachment 1 (Section 9.93.6.1). The appraisers were accompanied by the building manager. Other information was supplied by the building manager and recorded on the Building Manager's Questionnaire (BMQ), included as Attachment 2 (Section 9.93.6.2).

9.93.2 Description of Building 85

Building 85, Powder Blending and Processing, is a one-story, 3,160-square-foot reinforced concrete structure. The roof is also of reinforced concrete. The location is shown in Attachment 3 (Section 9.93.6.3). An adjacent building is Magazine 10. Floor plans are presented as Attachment 4 (Section 9.93.6.4). The building is serviced with electrical service of 480V (*Mound Facility Physical Characterization*, 12-1-93).

Building 85 was constructed in 1989 (MD-10391, *Asbestos Program Manual*, 9-14-95). The building was built as a Class I powder processing facility, with a high bay area, three-foot thick reinforced concrete wall and ceiling, and an explosion-proof electrical system. The building has never been used (*Mound Facility Physical Characterization*, 12-1-93). Utility services have been disconnected. It is currently undergoing Safe Shutdown.

9.93.3 Summary of Findings

There was one issue of environmental concern identified during the walk-through and during review of reference materials.

9.93.4 Observations

9.93.4.1 Air Emissions

There are no fumehoods within the building. There are no fuel-burning units in the building. Because of the intended process operations, the building is equipped with a central air collection system, with a high-efficiency particulate air (HEPA) filter. There is no evidence of fugitive dust.

9.93.4.2 Water Emissions

The Mound Facility has three wastewater collection systems: a sanitary wastewater system; a storm water system; and a radioactively contaminated process wastewater system. Sanitary wastewater is treated at an onsite tertiary treatment plant and subsequently discharged by hard pipe to the Great Miami River. Storm water and any non-process wastewater, single pass cooling water, and softener backwash may be discharged directly to the Great Miami River, via the Miami-Erie Canal, or may be diverted to a 3.1-million-gallon holding pond for settling prior to discharge. Radioactively contaminated wastewater is treated in Building WD by physical-chemical treatment. If appropriate, wastewater may be discharged by hard pipe to the Great Miami River. If concentrations of radioactive contaminants cannot be reduced to acceptable levels, wastewater is solidified and shipped to the Nevada Test Site or Envirocare for disposal. All outfalls are permitted under an active NPDES permit. Routine monitoring activities are in place. Based on NPDES monitoring report data reviewed, it appears that the facility is in compliance with qualitative and quantitative conditions of the permit.

9.93.4.2.1 Sanitary

Building 85 is serviced by a sanitary line, according to the plan for underground utility lines, in Attachment 5 (Section 9.93.6.5). Roof drains and the drain in the mechanical room (Room 8) are connected to the sanitary line. Confirmation of drainage of sanitary waste and floor drains into sanitary conveyance lines was not within the scope of the effort; therefore, neither dye tests nor smoke test were conducted.

Sanitary effluent is conveyed to the onsite tertiary wastewater treatment facility, and subsequently discharged to the Great Miami River. There is no monitoring of building effluent. Based on operations data, supplied by the process owner, effluent from Building 85 does not deviate from that expected by the sanitary treatment plant manager.

9.93.4.2.2 Storm Wastewater

The building is not directly serviced by storm drains according to drawings presented in Attachment 5 (Section 9.93.6.5). Storm water becomes part of the surface water and is either absorbed into the ground or flows to the nearest storm drain inlet.

The building was designed with a water collection system running outside of Rooms 1-5 (see Section 9.93.4.4 for a description of this system). The water collected in this system would have been put in drums, and disposed of as hazardous waste. Storm water can enter this system.

9.93.4.2.3 Chemicals

No chemicals were ever used or stored in the building.

9.93.4.3 Potable and Service Water

The building was equipped with potable water; the system has been drained and disconnected.

9.93.4.4 Chemical Storage and Hazardous Materials

There are no chemicals stored in the building. There is idle equipment, containing oil.

There are no aboveground storage tanks in or around the building. The building contains one underground storage tank which is part of the test cell wastewater collection drain outside Rooms 1-5. The water collected in this steel lined concrete tank would have been tested for hazardous waste and, if tested positive, would have been transferred to Waste Management for disposal. If found negative, the tank would be pumped out and discharged as surface water. Since the building was never placed in service, the underground storage tank was not added to the EG&G Active Underground Storage Tank Plan.

The building has been tested and does not contain asbestos-containing building material (MD-10391, *Asbestos Program Manual*, 9-14-95).

There are no capacitors or transformers containing polychlorinated biphemyls (PCB's) located in the building (1995 PCB Annual Document Log).

9.93.4.5 Solid, Hazardous, and Radioactive Wastes

There are currently no solid wastes generated.

During the Safe Shutdown process, hazardous materials and/or mixed wastes are generated in the process of cleaning idle equipment, furnishings, and personal property; removing tanks, cylinders, and process piping; and cleaning sumps and pits; etc. A review of procedures and requirements contained in MD-10431, *Safe Shutdown Standard Operating Procedures*, and the Safe Shutdown process manager's records indicate that the wastes are placed in containers, characterized (including testing for radionuclides), and then transferred to Waste Management for disposition. A copy of the inventory, chemical profile of each container, and Waste Management's acceptance become a permanent part of the Mound Safe Shutdown Plan for the specific building. All activities are conducted in accordance with MD-70523, 40 CFR 265, and OAC 3745.52. As hazardous waste generators, all Safe Shutdown process managers have received training in accordance with 40 CFR 265.16. There is no evidence that hazardous waste entered either the storm or sanitary systems.

Waste Minimization and Pollution Prevention

At Mound there is an active program to minimize waste streams in accordance with state and federal requirements and Executive Order 12856.

As part of the Safe Shutdown process, equipment and supplies were evaluated for reuse. They were handled in several ways: reused at Mound; sent to other DOE facilities; claimed by the City of Miamisburg; sold at auction; sold to recycle; or disposed of.

9.93.5 Findings and Recommendations

The environmental appraisal of Building 85 indicates that the following action item should be planned and scheduled for accomplishment thus assuring that best management and operating practices are in place.

85-1 Resource Conservation and Recovery Act (RCRA) regulations require that waste be removed from idled manufacturing and waste producing equipment within 90 days. ("Idle" is defined as occurring either from the cessation of production or idled between production runs). In the EG&G Mound Safe Shutdown Program, equipment is not addressed until funding, resources, and schedule permits, and/or ultimate disposition is known. The Safe Shutdown Program should review 40 CFR 261.4 and develop appropriate procedures for handling idle equipment.

9.93.6.1 Environmental Appraisal Checklist

ENVIRONMENTAL APPRAISAL CHECKLIST

Building Name 85 Powder Blending + Processing

Appraisers: Mark Gilliat
Name Discipline

Team #4 Marcia Vanret
Name Discipline

Myron Smith
Name Discipline

Name Discipline

Building Manager: Bob Ward

Process Manager:

Date: 2-8-96

ENVIRONMENTAL APPRAISAL CHECKLIST

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Safe Drinking Water Act	7
RCRA Hazardous Waste	8
TSCA and NESHAP Requirements for Asbestos	13
TSCA—PCB	14
Low-level and Transuranic Waste	17
Waste Minimization/Pollution Prevention Activities	22

Environmental Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-94

Clean Water Act (CWA) Screening Checklist

Question	Response	Comments
Does the outside drain spouting of the building discharge directly to a storm sewer/sanitary system?	(Y) / N	If the answer to any of these questions is yes, proceed with the following checklist.
Are there sinks, toilets and floor drains in the building?	(Y) / N	
Are chemicals being used in the building?	Y / (N)	
Is there a process which discharges to the storm or sanitary system?	Y / (N) *	

* facility never used

CWA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 122 Appendix D Table V	If chemicals are used/stored in the building, are they on the attached list? Are they properly contained?	Y / N Y / N	
	Is the building in operation? What are the processes and where do they discharge to?	Y / (N) _____ _____	never used
	Do the floor drains, sinks & toilets appear to be draining properly?	Y / N	all drained + disconnected
OAC 3745-33	Do the floor drains and sinks drain to a sanitary or storm sewer?	(Sanitary) Storm	
	Is there a sump/pit in the building? If so, what does it contain? How often is it pumped out? Does water collect in sump? Does sump have secondary containment?	(Y) / N _____ _____ (Y) / N (Y) / N	Runoff
	Are there any manholes, catch basins, drains, or fill pipes in or around the building? If so, are there any unusual appearances, colors, and/or odors? Describe in comment section. Can chemicals flow into the drain?	(Y) / N Y / (N) Y / (N)	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

Clean Air Act (CAA) Screening Checklist

Regulatory Guideline	Question	Response	Comments
	Are there any rooms that have air emissions sources that vent to the outside of the building, e.g., fumehoods, equipment? If so, note the rooms.	Y / N	
OAC 3745-35	Using the air emissions inventory reference for this building, are there any sources in the building that are not documented?	Y / N	
	Is there evidence of fugitive dust emissions inside or outside of the building	Y / N	

CAA Checklist

Regulatory Guideline	Question	Response	Comments
	Are there existing air permits or applications applicable to the building?	Y / N	
OAC 3745-31,35	If yes, are the terms and conditions of the permit or the information included on the application (see air emissions database) being followed? Note any differences and update the air emissions database.	Y / N	
OAC 3745-31	Are there any sources that are not included in the air emissions database? If so, note the room, hood number, active or not, POC, and applicable air emission database information on Table B.	Y / N	
OAC 3745-31-03	Are there sources which are lab equipment of lab fumeheads used exclusively for chemical or physical analyses and bench scale lab equipment? These sources do not require a permit. However, the air emissions database should be updated.	Y / N	
	Has there been any release of air contaminants from this building?	Y / N	

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

CAA Checklist

Comments: Note the number of sources/hoods per room, the number that are active, and the POC on the reference document.

TABLE A

Process Source	Room Number	Hood Number	In Database	Active	Chemicals Used	Quantity Used	Quantity to Waste Management	Hours/Yr. Operation	Air Emissions
			Y / N	Y / N					
			Y / N	Y / N					
			Y / N	Y / N					
			Y / N	Y / N					
			Y / N	Y / N					

BLANK

Source:

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

Hazardous Materials (HM) Screening Checklist

Question	Response	Comments
Are any chemicals used or stored in this building, now or in the past?	Y / N	If the answer is yes, proceed with the following checklist.

HM Checklist

Regulatory Guideline	Question	Response	Comments
29 CFR 1910.1200(b,f)	All containers of hazardous chemicals shall be labeled as to the identity of the chemical and the appropriate hazard warnings.	Y / N	
29 CFR 1910.1200(g)	MSDS shall be available to the employees in close proximity to the work area.	Y / N	
29 CFR 1910.22, 1910.106, 1910.176	All places of employment, passageways, storerooms and service areas shall be kept clean and orderly and in a sanitary manner. Aisles shall be unobstructed. Drums and containers are not leaking and are tightly sealed.	Y / N	
29 CFR 1910.106	Storage cabinets for flammable materials are constantly kept closed, are fire resistant and are labeled "FLAMMABLE - Keep Fire Away". Containers inside should be labeled and closed. No spills inside cabinet.	Y / N	
29 CFR 1910.106(d)(7)	Incompatible chemicals are not stored together.	Y / N	
29 CFR 1910.106(d)(4)	Inside Flammable/combustible storage rooms must meet the following: 4 in. raised sill or trench that drains to a safe area, liquid tight wall/floor joints, self-closing doors, gravity or mechanical exhaust providing 6 room changes/hr., exhaust switch located outside room, at least one 3 ft. aisle; no cracks in secondary containment.	Y / N	

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

HM Checklist

Regulatory Guideline	Question	Response	Comments
29 CFR 1910.106(d)(7)	All flammable/combustible storage locations have at least one 12-B portable fire extinguisher located outside and within 10 ft. of a door opening into any room for storage. No smoking signs are posted.	Y / N	
29 CFR 1910.151	Eyewashes/showers shall be provided within the work area. Ensure unit is operational.	Y / N	
CGA P-1 3.3 & 3.3.10	All gas cylinders (full or empty) shall carry a legible label or marking identifying the contents.	Y / N	
CGA P-1 3.5.3	Full and empty containers should be stored separately with the storage layout planned so that containers comprising of old stock can be removed first with a minimum handling of other containers.	Y / N	
CGA P-1 3.5.8	All compressed gas containers in service or in storage shall be stored standing upright and the container shall be secured.	Y / N	
CGA P-1 4.2.2	Oxygen cylinders shall be separated from flammable gas containers or combustible materials a minimum of 20 ft. or a noncombustible barrier 5 ft. high.	Y / N	
29 CFR 1910.104(2)(10)	Oxygen stored as a liquid shall be on a noncombustible surface. Asphalt is considered combustible. Wood and long dry grass shall be cut back 15 ft. from the container.	Y / N	
29 CFR 1910.104	Bulk oxygen storage shall be permanently placarded "OXYGEN - NO SMOKING - NO OPEN FLAMES".	Y / N	
	Is there a sign posted in each work area regarding emergency egress and emergency response action?	Y / N	
	Is there an emergency response plan available?	Y / N	

BLANK

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

HM Checklist

Regulatory Guideline	Question	Response	Comments
	Is there a process area?	Y / N	
	Does it have proper containment?	Y / N	
	Is there a liquid bulk transfer area?	Y / N	
	Is there proper containment?	Y / N	
	Is there an above ground storage tank? If so, complete Table B.	Y / N	

BLANK

Above Ground Storage Tanks Inventory

TABLE B—Above Ground Storage Tanks Inventory

Building	Capacity (Gal.)	Contents	Estimated Volume	In Service	Containment	Visual Stains/ Contamination	If Empty, Flushed
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N

Source: _____

Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-94

Safe Drinking Water Act (SDWA) Screening Checklist

Does this facility have potable water?	Y / N	If yes, conduct the following survey:

all facility utilities have been disconnected

SDWA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745 95-02 (A)	Do actual or potential cross-connections exist between potable (light green) and service water (dark green)?	Y / N	
OAC 3745 95-04 (B)(C)	Are backflow prevention devices installed where cross connections (hoses connected to faucets, hot water tank vented directly to a drain) exist?	Y / N	
	Are sources of service water (janitorial and laboratory faucets, or outdoor spigots) posted as non-potable water sources?	Y / N	
	Does the facility contain any water coolers or fountains that are not lead free? Complete Table C.	Y / N	

TABLE C—Water Fountain Survey

Building	Location	Model #	Comments / Date of Analysis for Lead

Source: _____

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

RCRA Screening Checklist

Does this facility generate waste or use chemicals?	Y (N)	If yes, conduct the following survey.

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745 52-11	Has any material generated been characterized RCRA hazardous? Was charactarization by analysis or by process knowledge? Are lab results or documentation of process knowledge readily available? Note any uncharacterized material in comment section. Is it waste? If yes, proceed with next section.	Y / N analysis / process Y / N Y / N	
OAC 3745 52-11	Are any of the materials noted RCRA hazardous waste? If no, note and stop here. If yes, note the location of the management unit, and the method of management, and proceed with the appropriate section below.	Y / N	

Building Name: ~~Team #4~~ 85 Appraisers: Team #4 Date: 2-8-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
I. HAZARDOUS WASTE STORED IN CONTAINERS			
	Is there an area in the building that could qualify as a Satellite Accumulation Area? Is it treated as such?	Y / N Y / N	
OAC 3475-52-34 (C)	Has any of the RCRA hazardous waste in this building been managed in Satellite Accumulation Areas? If no, proceed to the next section. If yes, answer the following.	Y / N Blank	
	Are the containers marked with the words hazardous waste, or other words denoting the hazard?	Y / N	
	Are the containers in good condition?	Y / N	
	Are the waste compatible with the containers?	Y / N	
	Are containers managing ignitable hazardous waste stored at least 50 feet from the plant site boundary?	Y / N	
	Are containers kept closed and locked except during filling?	Y / N	
	Are containers moved within 3 days of being filled?	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745-52-11 (A)	If a Satellite accumulation area has been abandoned and/or if waste left in place, and the containers may be subject to the 90-day-storage exclusion. If this exclusion does not apply, go to the next section. If the containers have been in storage under this exclusion, answer the following:		
	Are the containers in good condition?	Y / N	
	Are the waste compatible with the containers?	Y / N	
	Are the containers kept closed except during filling?	Y / N	
	Are the containers managed in such a way, that they are not ruptured, or leaks caused?	Y / N	
	Is the area inspected at least once weekly?	Y / N	
	Is the inspection recorded? • Where is the log? Is it properly completed, dated, and signed?	Y / N _____ Y / N	
	Are containers managing ignitable hazardous waste stored at least 50 feet from the facility boundary?	Y / N	
	Are incompatible wastes managed in such a way that they will not react with another incompatible waste?	Y / N	
OAC 3745-52-34(B)	Has any of the waste (except in Building 23, Building 72 and the Burn Area) been managed in excess of 90-days?	Y / N	
	If no go to next section.		
	If yes, note.		
	For Building 23, Building 72 & Burn Area use special checklist.		

N/A ONLY

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
II. HAZARDOUS WASTE STORED IN TANKS			
OAC 3745-52-32 (B)	Has any chemical waste stored in a tank, piece of process equipment or ancillary equipment been in storage in excess of 90-days?	Y / N	
	If the answer was no, then proceed with the following:	Y / N	
	Has the tank or piece of equipment had an integrity assessment?	Y / N	
	Is there a sump?	Y / N	
	Is it dry?	Y / N	
	Does the tank or equipment have secondary containment?	Y / N	
	Does the tank or equipment have leak detection device(s)?	Y / N	
	Has spill control prevention been enacted?	Y / N	
	Has any hazardous waste stored in a tank, piece of process equipment or ancillary equipment been in storage in excess of 90-days?	Y / N	
	If the answer was no, then proceed with the following:		
	Has the tank or piece of equipment had an integrity assessment?	Y / N	
	Does the tank or equipment have secondary containment?	Y / N	
	Does the tank or equipment have leak detection device(s)?	Y / N	
	Has spill control prevention been enacted?	Y / N	
	Is there a closure plan?	Y / N	
	If yes, then note.		
OAC 3745-67	Has any of the waste been managed in a surface impoundment? If yes, then note. Go to the next section.	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745-68	Has any of the waste been managed in a Landfill? If yes, then note. Go to the next section.	Y / N	
OAC 3745-68	Has any of the waste been managed in an Incinerator (other than Burn area units)? If yes, then note. Go to the next section.	Y / N	
OAC 3745-68	Has any of the waste been managed in a Thermal treatment Unit (other than Burn area units)? If yes, then note. Go to the next section	Y / N	
OAC 3745-69	Has any of the waste been managed in a Miscellaneous Treatment Unit (other than Burn area units)? If yes, then not. Go to the next section.	Y / N	
OAC 3745-56	Has any of the waste been managed in a Waste Pile? If yes, then note. Go to the next section.	Y / N	

General Comments:

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

Asbestos Screening Checklist

Does this facility contain ACBM?	Y / N	If yes, conduct the following survey.

Asbestos Checklist

Note: Routinely, the asbestos standard for ACBM in schools has been applied to facilities for purpose of cleanup. In addition to AEHERA, there are additional standards in the NESHAPS that may be of importance.

Regulatory Guideline	Question	Response	Comments
ADAPTED FROM TSCA ACBM IN SCHOOLS:			
	Has this building been characterized either through process knowledge, by analyses, or by inspection to determine if it contains asbestos? If no for this building or area note this conclusion in the comment section.	Y / N	
	Is there any evidence of friable asbestos?	Y / N	
	Is the asbestos removal properly managed? (See questions listed below)	Y / N	If there is no asbestos removal, do not complete the following section.
NESHAPS FOR ASBESTOS FOR ANY ONGOING ASBESTOS REMOVAL:			
40 CFR 61.156	There are no discharges of visible emissions to the outside air from collection, processing, packaging, transporting, or deposition of ACBM during the removal.	Y / N	
40 CFR 61.152(b) (1)	ACBM is treated with water in accordance with 40 CFR 152(b)?	Y / N	
40 CFR 61.154	Is friable asbestos adequately wetted during stripping? Or, has an adequate ventilation and collection system been installed?	Y / N	
40 CFR 61.152	Is wetting continued until the waste friable asbestos is collected for disposal?	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team H4 Date: 2-8-96

Toxic Substances and Control Act (TSCA) PCB's Screening Checklist

Does this facility potentially contain any PCB's or PCB contaminated equipment?	Y / N	If yes, are transformers labeled (Blue or Yellow stickers)? If yes, conduct the following survey.

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761	Has any waste generated in, or from, this building been characterized either through process knowledge or by analyses to determine if it contains PCB's ? If the answer is no, note . If the answer is yes, proceed with next section.	Y / N	
	Based on an inspection, are any of the materials or equipment potentially PCB contaminated? If no, note and stop here. If yes, note the location of the management unit, and the method of management, and proceed.	Y / N	
40 CFR 761.65 (c) (5)	Are PCB articles or containers stored in this building checked for leaks at least once every 30 days?	Y / N	
	If yes, are auditable records maintained.	Y / N	
40 CFR.30 (a) (1) (ix)	Are any PCB transformers in use, or stored for possible reuse, that contain PCB's at concentrations of 500 ppm or greater?	Y / N	
	Are they visually inspected quarterly? If yes, are auditable records maintained?	Y / N	

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761.30 (a) 1,viii	Are all combustible materials (i.e., paints, solvents, plastics, paper, sawn wood, etc.) cleared from areas containing PCB transformers to a distance of five meters?	Y / N	
40 CFR 761.65 (b) (8)	Are all PCB articles and containers labeled with the date they were placed in storage?	Y / N	
	Are labeled PCB articles and containers stored so that the labels can be referenced?	Y / N	
40 CFR 761.65 (a)	Are all PCB's and PCB contaminated items at concentrations above 50 PPM, that are stored for disposal, stored no longer than one year from the date they were placed in storage?	Y / N	
40 CFR 761.62 (b) (1) (i)	Do all PCB storage areas have an adequate roof and walls to prevent rainwater from reaching the stored items?	Y / N	
40 CFR 761.62 (b) (1) (iv)	Are storage are floors curbed and constructed of continuous smooth and impervious materials?	Y / N	
40 CFR 761.62 (b) (1) (i)	Are the curbs at least 6 inches high?	Y / N	
40 CFR 761.62 (b) (1) (iii)	No drains are allowed in storage areas. Are there drains in the storage areas?	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761.65 (c) (2)	Only non-leaking and undamaged large high voltage PCB's capacitators and PCB-containing electrical equipment are allowed to be stored outside of PCB storage areas, on pallets if stored outside, with containment for 10 percent of the volume of the equipment. Do all PCB's stored in this configuration conform with this requirement?	Y / N	
40 CFR 761.45 and .65	Are all PCB storage areas marked with a large PCB mark as described in 40 CFR 761.45 (a)?	Y / N	
40 CFR 761.65 (c) (5)	Have all leaking PCB articles and containers been transferred to non-leaking containers?	Y / N	
40 CFR 761.65 (c) (6)	Do all PCB storage containers for the storage of liquid and non-liquid PCB's comply with DOT shipping container specifications?	Y / N	

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GENERAL COMMENTS:

Building Name: 85 Appraisers: Team # 4 Date: 2-8-96

Low-Level Waste and Transuranic Waste Screening Checklist

Does this facility contain radioactive waste ?	Y (N)	If yes, conduct the following survey.

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
Low-Level Waste			
DOE Order 5820.2A Chapter III	Can any waste generated in, or from, this building be characterized either through process knowledge or by analyses to determine if it is LLW ? If the answer is no, note. If the answer is yes, proceed with next section.	Y / N	
DOE Order 5820.2A Chapter III.	Are any of the materials noted by inspection LLW? If no, The audit would stop here, because there are no LLW. If yes, note the location of the management unit, and the method of management, and proceed with the section below.	Y / N	
DOE Order 5820.2A Chapter III, 3.a.	Have the storage configurations in use in this area been taken into account for keeping external exposures to the general public below 25 mrem/yr?	Y / N	
	Is the waste stored in a configuration that protects ground-water resources?	Y / N	
DOE Order 5820.2A Chapter III, 3.b.	Has monitoring been conducted in this area in accordance with DOE Order 5820.2A in order to evaluate the area against the performance standard?	Y / N	
	Based on field data, does the monitoring conducted in this area conform to the performance standard?	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A Chapter III, 3.d.	Based on field data, is the characterization of the materials in this area sufficient to assure proper segregation to assure proper segregation, treatment, storage, and disposal?	Y / N	
	Based on field data does the characterization as documented at the time of generation of the waste ensure that the actual physical and chemical characteristics, and major radionuclide content of this material are recorded and known at all stages of the waste management process?	Y / N	
	Do characterization data include the following:		
	Physical and chemical characteristics of the waste?	Y / N	
	Volume of the waste (including solidification and absorbent material)?	Y / N	
	Weight of the waste (including solidification and absorbent material)?	Y / N	
	Major radionuclides and their concentrations?	Y / N	
	Packaging date, package weight, external volume?	Y / N	
	How were the concentration of radionuclides determined? Direct methods?	_____	
	How were the concentrations of radionuclides determined? Indirect methods?	_____	
DOE Order 5820.2A Chapter III, 3.h	Is the storage configuration in long term storage sufficient to meet the performance standard?	Y / N	
	Are records maintained at the facility enabling this waste to be traced from its origin?	Y / N	

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Building Name: 85 Appraisers: Team H4 Date: 2-8-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
TRU WASTE			
	Can any waste generated in, or from this building be characterized either through process knowledge or by analyses to determine if it is TRU waste? If no, note and stop. If yes, proceed with the next section.	Y / N BLANK	
	Are any of the materials noted as being TRU waste during an inspection? If no, note and stop. If the answer is yes, note the location of the management unit, and the method of management and proceed with the appropriate section below.	Y / N	
DOE Order 5820.2A, Chapter II, 3.a	Was this material evaluated as soon as possible in the generating process, to determine if it is TRU (>100nCi/g), if it is recoverable, or if it is waste? (Note if the activity level is less than 100nCi/g, the waste is not TRU, and can be managed as LLW.)	Y / N	
	Did the determination of TRU radionuclide concentration include the mass of the container, including shielding? These should be included in calculating the specific activity of the waste.	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-94

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A, Chapter II, 3.b	Has the TRU waste been assayed or otherwise evaluated to determine its radioactive content prior to storage?	Y / N	
	Has the TRU waste been characterized or otherwise evaluated to determine if hazardous waste is present?	Y / N	
	Has classified TRU waste been treated to destroy the classified characteristics?	Y / N	
DOE Order 5820.2A, Chapter II 3.d	Has all newly generated TRU waste been packaged in non-combustible packaging that meets DOT requirements?	Y / N	
	Have all Type A TRU waste packages been equipped with a method to prevent pressure buildup?	Y / N	
	Have all TRU packages been marked, labeled and sealed in accordance with 40 CFR 261 Subpart C and 49 CFR 172 Subparts D, E and 49 CFR 173 Subpart I?	Y / N	

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Building Name: 5 Appraisers: Team #4 Date: 2-8-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A, Chapter II 3.e	Has the TRU waste been segregated in manner that will not permit commingling of TRU waste with LLW or high-level waste?	Y / N	
	Has the TRU waste been protected from unauthorized access?	Y / N	
	Has the TRU waste been monitored periodically to ensure that it is not releasing its radioactive and/or hazardous constituents?	Y / N	
	Has this TRU waste storage area been designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or accidental release of its radioactive and/or hazardous constituents?	Y / N	
	Does the facility have a contingency plan designed to minimize the adverse impacts of fire, explosion, or accidental release of its radioactive and/or hazardous constituents?	Y / N	

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GENERAL COMMENTS:

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Environmental Appraisal Checklist

Building Name: 65 Appraisers: Team #4 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Screening Checklist

Does this facility generate waste or use chemicals?	Y / N	If yes, conduct the following survey.

Waste Minimiaztion/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Based on available information and a walk through, are there any apparent opportunities to curtail the consumption of raw materials (including but not limited to paper, chemicals, electricity, and etc.). If yes, list candidate areas in the comment section.	Y / N	
	Are there solvent wastes?	Y / N	
	Is vehicle maintenance performed?	Y / N	
	Are oils used ?	Y / N	
	Are these corrosive wastes?	Y / N	
	Are there sludges?	Y / N	
	Are there halogenated organic (nonsolvent) wastes?	Y / N	
	Are metals recovered from wastewater?	Y / N	
	Is waste sludge generated?	Y / N	
	Are any waste minimization practices used that reduce the generation of sludge?	Y / N	
	Ion exchange process?	Y / N	
	Lead in gasoline lowered to reduce tank sludge toxicity?	Y / N	
	Storage tank agitators installed?	Y / N	
	Corrosive resistant materials used?	Y / N	
	Prevention of crude oil oxidation ?	Y / N	
	Drying?	Y / N	

Environmental Appraisal Checklist

Building Name: 05 Appraisers: Team #4 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
HALOGENATED ORGANIC (NONSOLVENT) WASTES			
	Are halogenated organic wastes used as fuel in cement kilns?	Y / N	
	Are baghouse filters used to collect pesticides and pesticide intermediates?	Y / N	
	Are solid wastes generated from the collection of baghouse dust?	Y / N	
	Wet instead of dry grinding used?	Y / N	
	The output spray dried?	Y / N	
	Has baghouse emptying and recycling of baghouse fines been scheduled?	Y / N	
	Have operations been evaluated to improve procedures such as handling, storage and spill prevention for increased efficiency?	Y / N	
METAL WASTES			
	Are any technologies for the recovering of metals from waste rinsewater used?	Y / N	
	Evaporation of waste rinsewater?	Y / N	
	Reverse osmosis?	Y / N	
	Ion exchange?	Y / N	
	Electrolysis?	Y / N	
	Agglomeration?	Y / N	
CORROSIVE WASTES			
	Are acidic or basic cleaning solutions used as treatment for pH adjustment chemicals?	Y / N	

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Environmental Appraisal Checklist

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are ion exchange resins used to remove heavy metals and cyanides from acid and base solutions?	Y / N	
	Is crystallization used to remove corrosives from solution by cooling?	Y / N	
	Is the process of evaporation of liquid wastes by heating used to leave behind a more concentrated solution?	Y / N	
CYANIDE AND REACTIVE WASTES			
	Has non-cyanide or low concentration of cyanide process replaced zinc cyanide bath ?	Y / N	
	Are any of these processes used to recycle cyanide wastes?	Y / N	
	Refrigeration/crystallization?	Y / N	
	Evaporation?	Y / N	
	Ion exchange?	Y / N	
	Membrane separation which includes reverse osmosis or electrodialysis?	Y / N	
VEHICLE MAINTENANCE			
	How are auto parts cleaned?	Y / N	
	Solvent sink?	Y / N	
	Solvent dunk bucket?	Y / N	
	Solvent dip tank?	Y / N	
	Are parts cleaning solvents used for anything else besides cleaning parts?	Y / N	
	Are spills reduced by locating sinks or dunk buckets near auto service bays?	Y / N	

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Building Name: 85 Appraisers: Team #4 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are cleaned parts drained on the sink to minimize solvent spills?	Y / N	
	Are drip tanks used to capture losses?	Y / N	
	Is a solvent sink used for mineral solvents rather than a dunk bucket or dip tank?	Y / N	
	Does a waste hauler collect solvent waste for recycling or treatment?	Y / N	
OILS			
	What kind of oils are used?		
	Hydraulic oil?	Y / N	
	Transformer oil?	Y / N	
	Metal working fluids?	Y / N	
	Spent lubricating oils?	Y / N	
	Can the process be modified or changed to use water-based fluids?	Y / N	
	Are these good housekeeping and operation practices used to minimize oil waste production?		
	Use oils not contaminated with other liquids?	Y / N	
	Oil spills prevented?	Y / N	
	Drip pans installed?	Y / N	
	Oil soaked rags laundered?	Y / N	
	Rags and absorbants used to their limit?	Y / N	

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9.93-33

9.93-34

Environmental Appraisal Checklist

Building Name: 45 Appraisers: Team 41 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are these treatment techniques used to promote separation of oil/water wastes?		
	Reclaiming process to remove water and solvents by heat?	Y / N	
	Gravity setting?	Y / N	
	Screening?	Y / N	
	Centrifugation?	Y / N	
	Filtration?	Y / N	
SOLVENT WASTES			
	Has there been an attempt to reduce volume or toxicity by:		
	Eliminating solvents?	Y / N	
	Reducing the use of solvents?	Y / N	
	Reducing the loss of solvents?	Y / N	
	Increasing recyclability?	Y / N	
	Are solvents segregated?	Y / N	
	Are waste solvents free from water and garbage?	Y / N	
	Are recycled solvent containers labeled as such?	Y / N	
	Are containers kept closed?	Y / N	
	Free and sheltered from the elements?	Y / N	
	Are solvent tanks kept as free from contaminations as possible so that the waste can be recycled?	Y / N	
	Is a method used to minimize the use of new materials such as a countercurrent process?	Y / N	

DUPLICATE

Building Name: 85 Appraisers: Team #4 Date: 2-8-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	If there is a recycling program, what technique is used?	Y / N	
	Distillation?	Y / N	
	Solids removal?	Y / N	
	Dispersion breaking?	Y / N	
	Dissolved and emulsified organics recovery?	Y / N	
	Are any of these housekeeping procedures used to minimize the production of solvent wastes?		
	Separators cleaned and checked?	Y / N	
	Parts not allowed to enter the degreaser while wet?	Y / N	
	Sludge from the bottom of the tank not allowed to accumulate?	Y / N	
	Lids kept on tanks?	Y / N	
	Freeboard space on tanks increased?	Y / N	
	Are better operating practices used to reduce waste?	Y / N	
	How long is solvent waste stored and where?	_____ _____	

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9.93-35

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9.93.6.2 Building Manager's Questionnaire

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: 3821 Date: 12-07-95
Alternate: K. KOEHLER Phone: 4886

1. What are the access requirements (training, clearance, etc.)?

None

2. What protective equipment is required to enter the building?

No

3. Are there any restricted areas? Yes (No)
Where are they?

4. Provide a physical description of the building.

This one-story, reinforced concrete structure with concrete roof covers 3,160 ft^2. Built as a Class I Powder Processing facility, it contains a high bay area, three-foot thick reinforced concrete walls and ceilings, and an explosion-proof electrical system. Building has never been used, and it is not contaminated.

Source: Mound Facility Physical Characterization, 12-1-93

5. Provide a drawing of the building.

Attached.

6. What is the current building use?

Shut down.

Source: Mound Buildings, 5-9-95

7. What is the history of building use other than that described in #6?

Source: Mound Buildings, 5-9-95

9.93-39

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

8. What are ongoing operations or processes? What are the raw materials and waste streams from each process? Who is the best contact for each process?

Process(es) Housed: Powder blending and processing

How Wastes Are Generated:

(No description)

Contact:
Phone #:

Source: Characterization of Mound's Hazardous, Radioactive, and Mixed Waste, (8-15-90).

9.93-40

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

9. In the last six months, have any modifications been made to the building or to processes in the building? Yes No

10. Does the building have air emission sources? No

Process Source	Room Number	Hood Number	Active	Chemicals Used	Quantity Used	Quantity to Waste Management	Lbs./Yr. Operation	Air Emissions
			Y / N					
			Y / N					
			Y / N					
			Y / N					
			Y / N					

Source: Mound Air Emissions Database 11/30/95

9.93-41

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

11. Describe air pollution control equipment used to reduce emissions for each source. None Listed

Process Source	Emissions	Control Equipment	Functioning
			Y / N
			Y / N
			Y / N
			Y / N
			Y / N

Source: Air Permits 2/4/95

12. For existing permits are emissions monitored? At what frequency? Where are the records maintained? None Listed

Process Source	Permit	Log	Permit Conditions & Frequency of Monitoring
		Y / N	
		Y / N	
		Y / N	
		Y / N	
		Y / N	

Source: Air Permits 2/4/95

13. Does the building have domestic water service? Yes No drained, disconnected
Is there bottled water? Yes No

14. Does the building discharge to the storm sewer? Yes No
Where?

15. Does the building discharge to the sanitary sewer? Yes No
Where?

16. Has an asbestos survey been conducted? Yes
What are the results? NO

Source: Technical Manual MD-10391, Issue 3 Asbestos Program Manual 9/6/95

9.93-42

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

17. Does the building contain transformers or capacitors? No

Source: PCB ANNUAL DOCUMENT LOG

18. Has the building been identified as containing PCBs? No

Source: PCB ANNUAL DOCUMENT LOG

19. What chemicals are used or stored inside or outside of the building? Include compressed gasses not in large tanks.

Chemical Name	State	Amount (MAX)
NONE		

Source: Chemical Inventory 1994

9.93-43

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

20. Has there been a reported spill, leak, or other release of any chemical? Yes No
What, how much, and what clean-up measures were followed?

Chemical	Amount	Clean-up Measures

Source: _____

21. Where do waste chemicals go?

N/A

22. What janitorial supplies are stored inside or outside of the building?

N/A

23. Where do excess janitorial supplies go?

N/A

Source: _____

24. Are pesticides or herbicides stored or used in or around the building? Yes No

Chemical	Amount	Chemical	Amount

Source: _____

9.93-44

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

25. Does the building contain active or inactive above ground storage tanks? Yes (No)
For each tank, list the content, quantity, last inspection, registration number.

NONE

26. Is there a sump or pit or underground tank in or around the building?
(Yes) No Unknown
Is it double-walled? What does it contain? How many days per year is it filled?
Is there an emergency overflow tank? Have there been previous overflows?

Double-Walled	Contents	Days/Year in Use	Overflow Tank	Previous Overflow
Y / N			Y / N	Y / N

Source: _____

27. Does the building generate, store, or dispose of hazardous waste? Yes (No)

Materials	Amount
OIL WASTE, FUEL OIL, WATER	482.1
OIL WASTE, FUEL OIL,WATER	492.6

Source: Characterization of Mounds Hazardous, Radioactive, and Mixed Wastes 08/15/90

Not present ~~day of inspection~~ : Building shut down

9.93-45

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

28. Does the building have abandoned process equipment such as tanks, piping, containers, etc.? Yes No

29. Is waste material stored in or around the building for more than 90 days?
Yes No

30. Has the building been identified as a 90-day waste accumulation area?
Yes No

31. Has any area in the building been identified as a satellite accumulation area?
Yes No

32. Is mixed waste generated, stored, or disposed of from the building? Yes No
Where are logs found?

Process	Waste	Stored	Disposed	Logs
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N

Source: _____

9.93-46

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

33. Is TRU radioactive waste generated, stored, or disposed of from the building?
Yes (No)
Where are logs found?

Process	Waste	Stored	Disposed	Logs
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N

Source: _____

9.93-47

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

34. Is low-level radioactive waste generated, stored, or disposed of from the building? Yes (No)
Where are logs found?

Process	Waste	Stored	Disposed	Logs
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N
		Y / N	Y / N	Y / N

Source: _____

35. Identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, or criminal activities issued against the building.

Building Manager's Questionnaire

Building Name: 85 Building Manager: R.A. Ward Phone: _____ Date: 12-07-95
Alternate: _____ Phone: _____

36. Is there a waste minimization program in the building? Yes No
Discuss your ideas about how to minimize waste.

37. Has a pollution prevention program been developed for the building? Yes No

9.93=49

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Appendix G

Radiological Summary/Information

BUILDING 85 HISTORICAL SITE ASSESSMENT
July 17, 2001

Based upon information stated in the "Building 85 Structural History and Process History Background Document" prepared by BWXTO, ESC Department, July 16, 2001, and based upon previous radiological survey data (i.e., annual routines, equipment cursory surveys, etc.), the building is determined to be non-impacted from a MARSSIM standpoint. In summary, the findings of this assessment are as follows:

- The purpose of the building was not radiological in nature.
- The building was never operational, and not generally inhabited.
- No radioactive materials were ever stored in the building.
- Previous surveys showed no detectable radioactive contamination.

Judgmental Recommendations:

- Water samples should be taken in the sump located outside the building.
- Soil samples should be taken underneath the building slab upon slab removal, and the underside of the slab verified to be free of radioactive contamination at that time as well.

Prepared by: Robert M Coblentz
Robert M. Coblentz, RRPT

Approved by: C D Thompson
C. D. Thompson, SMPP/TFV Project Manager

Radiological Survey Data Breakdown for Building 85

The following radiological surveys for Building 85 were reviewed for inclusion into the overall Historical Site Assessment, pursuant to the pre-demolition MARSSIM review:

SURVEY TYPE	RSDS#	LOCATION/ ITEM(S)	ALPHA MAX RESULTS ($dpm/100cm^2$) SMEAR/DIRECT[1]	BETA MAX RESULTS ($dpm/100cm^2$) SMEAR/DIRECT[1]
Routine Annual	00-TF-439	Building Rooms	1.66/<100	2.61/<5000
Equipment	00-TF-258	Cart of Computer Equipment	6.01/<100	4.21/<5000
Equipment	00-TF-258	Cart of Computer Equipment	1.28/<100	4.48/<5000
Equipment	00-TF-258	Cart of Computer Equipment	3.58/<100	4.60/<5000
Equipment	00-TF-258	Cart of Computer Equipment	3.06/<100	2.80/<5000
Equipment	00-TF-258	Cart of Lab Equipment	3.28/<100	5.79/<5000
Equipment	00-TF-258	Cart of A/V Equipment	0.00/<100	1.44/<5000
Equipment	00-TF-258	Cart of Computer Equipment	5.37/<100	3.53/<5000
Equipment	00-TF-258	Cart of Printer Paper Trays	2.67/<100	3.69/<5000
Equipment	00-TF-258	Cart of Computers and Software	4.96/<100	1.42/<5000
Equipment	00-TF-258	Cart of Computer Equipment	1.04/<100	0.45/<5000
Equipment	00-TF-258	Cart of Lab Equipment	1.22/<100	2.50/<5000
Equipment	01-TF-1253	Chair	3.60/<100	5.06/<5000
Equipment	01-TF-1253	Chair	3.61/<100	3.93/<5000
Equipment	01-TF-1253	Sift Machine	5.59/<100	0.51/<5000
Equipment	01-TF-1253	Sift Machine	5.59/<100	3.92/<5000
Equipment	01-TF-1253	Broom	1.62/<100	2.78/<5000

[1]The guideline surface contamination values ($dpm/100cm^2$) are Alpha: 20 removable, 100 fixed; Beta: 1000 removable, 5000 fixed.

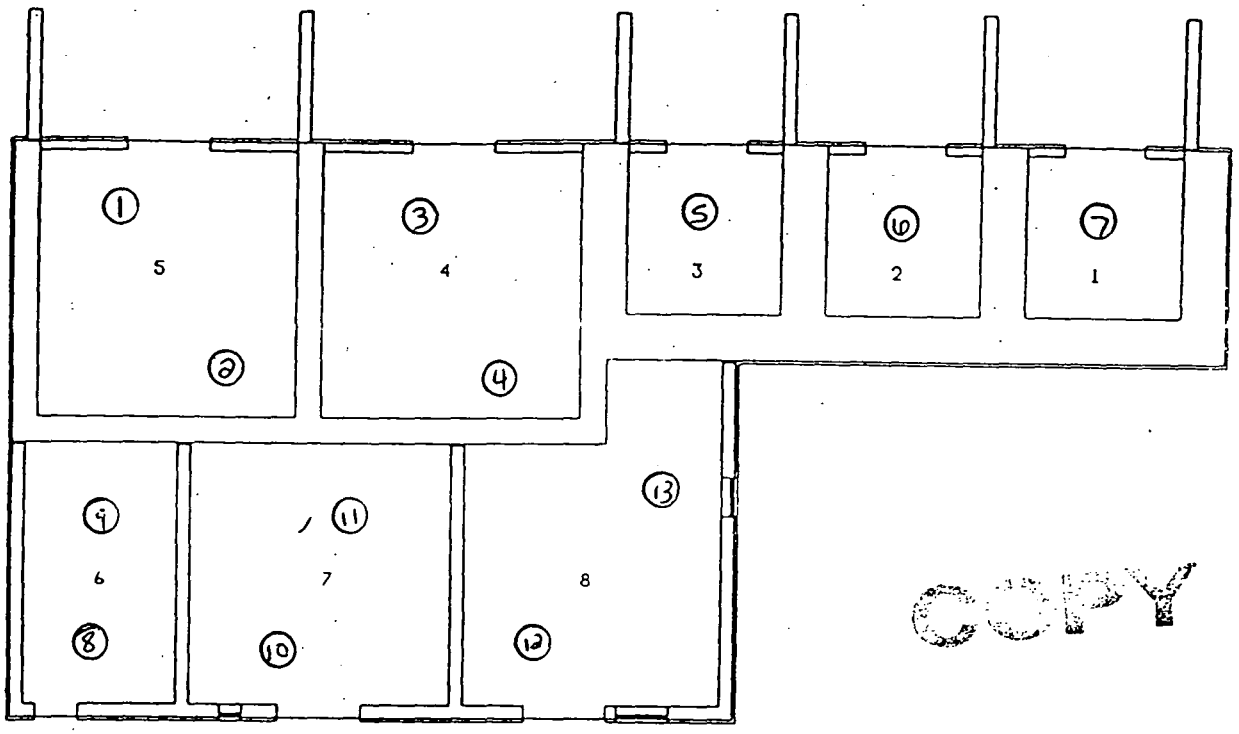
Note: All smears were analyzed for tritium contamination, ranging from 0.0 to 262 $dpm/100cm^2$, and the guideline value being 10,000 $dpm/100cm^2$.

GY-E13-5023
P5

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) Building 1885	SURVEY NO. 00-TF-439
PURPOSE: ANNUAL SURVEY	RWP NO. N/A
	DATE: 12-12-00
	TIME: 1530

MAP/DRAWING



COPY

DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS

$\alpha < 100$ dpm/100 cm^2 $\beta^- < 5000$ dpm/100cm^2

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
ELECTRA	S612	2-22-01

[redacted]

HP#	Date:
6196	12-12-00
5681	12-14-00
7737	12-19-00

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1	SEE	ATTACH	ED	floor
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13	SEE	ATTACHED		floor

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COPY

COMMENTS:

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (4-98)

Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Blue
Data file name: SMEAR133
Batch Ended: 12/14/2000 10:21
Cal. Due Date: 5/22/2001
Serial Number: 26966-3

Alpha activity action level (DPM): 20
Beta activity action level (DPM): 200

Batch ID: 00-TF-439 RUBADUE BLDG.#85 (13) CYR

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A2	1	0.00	2.20	<MDA	0.00	1.42	<MDA
A3	2	0.00	1.93	<MDA	0.00	1.31	<MDA
A4	3	1.66	2.12	<MDA	0.18	1.99	<MDA
B1	4	0.00	2.03	<MDA	0.00	1.65	<MDA
B2	5	0.00	1.90	<MDA	1.38	2.34	<MDA
B3	6	0.00	2.03	<MDA	0.00	1.59	<MDA
B4	7	0.00	1.91	<MDA	0.00	1.48	<MDA
C1	8	1.25	1.68	<MDA	0.00	1.27	<MDA
C2	9	0.00	1.81	<MDA	1.05	1.96	<MDA
C3	10	0.00	1.98	<MDA	0.00	1.40	<MDA
C4	11	0.00	1.78	<MDA	0.26	1.67	<MDA
D1	12	0.00	2.06	<MDA	2.61	2.70	<MDA
D2	13	0.00	2.09	<MDA	1.52	2.07	<MDA

Mok Mok

COPY

PAGE 3 of 4

Time: 2.00
Data Mode: DPM Nuclide: SMVIAL3 Quench Set: SMVIAL3
Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.5 -	18.6	0	0.0	5.10
Region B:	2.0 -	18.6	0	0.0	4.82
Region C:	40.0 -	2000	0	0.0	11.40

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
00-TF-439 RUBADUE BLDG.85 (30-23 E1-E13) CYR
Luminescence Correction On
Coincidence Time(ns): 18
Delay Before Burst(ns): Normal
Protocol Data Filename: C:\DATA\PROT5.DAT
Count Data Filename: C:\DATA\CDATA5.DAT

S#	TIME	CPMA	CPMB	CPMC	tSIE	LUM	FLAG	DPM1	2SIGMA
-1	10.00	5.10	4.82	11.40	880.89	11	B	[illegible]	[illegible]
0	2.00	974.22	935.37	5.60	543.91	[illegible]	[illegible]	2821.54	[illegible]
1	2.00	6.60	6.28	0.00	501.82	[illegible]		18.83	12.01
2	2.00	0.40	0.88	0.00	500.79	[illegible]		[illegible]	[illegible]
3	2.00	2.30	2.89	0.00	557.43	[illegible]		2.81	[illegible]
4	2.00	1.86	1.57	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
12	2.00	0.30	1.13	0.00	530.53	[illegible]		2.10	[illegible]

MOL

COPY

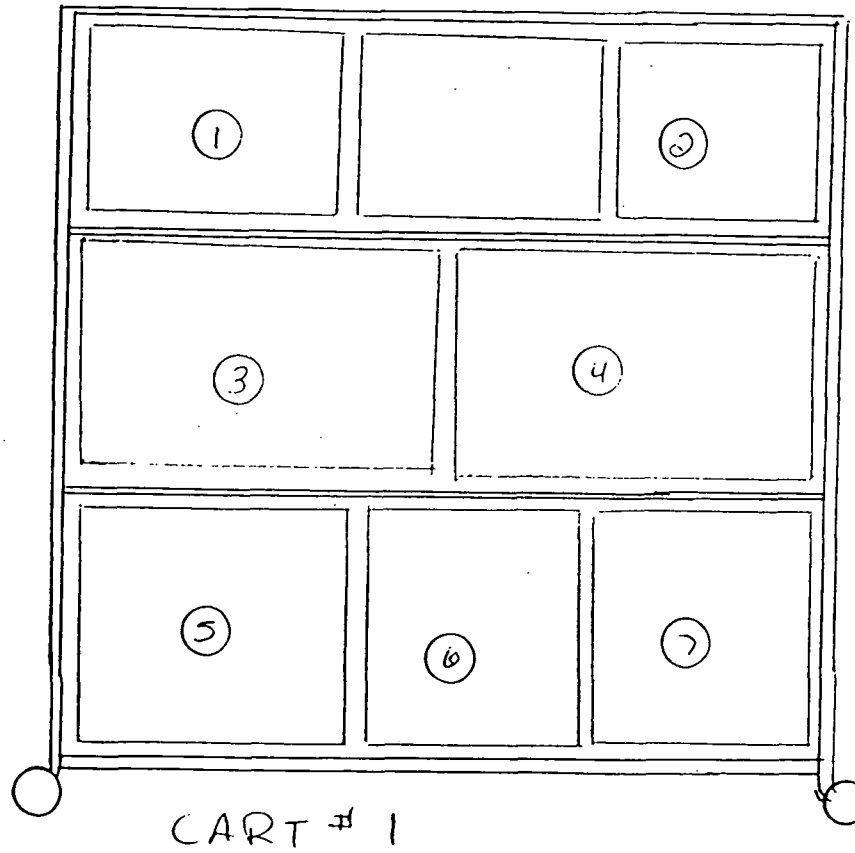
RADIOLOGICAL SURVEY DATA SHEET

LOCATION (BLDG/AREA/ROOM) 85	SURVEY NO 00-TF 258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO N/A
	DATE 7-11-00
	TIME 1200

MAP / DRAWING

DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS

$\alpha < 100$ dpm/100cm^2 $\beta^- < 5000$ dpm/100cm^2



CART # 1

DOE # 203392, 300172, 300724, 300819

CART CONTAINS MONITORS, PRINTERS AND CABLES

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · = radiological boundary
△# = mrem/hr neutron
= air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NE ELECTRA	5435	10-25-00
N		
	A	

Completed [redacted]	HP# 6196	Date 7-11-00
Completed by (Print Name) [redacted]		
Counted [redacted]	HP# 528	Date 7/18/00
Counted [redacted]		
Reviewed [redacted]	HP# 7737	Date 7-22-00
Reviewed/Approved by: (Print Name) [redacted]		

Survey No.
00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1	SEE	ATTACHED		MONITOR
2				MONITOR
3				POWER DIRECTOR
4				PRINTER
5				CABLES
6				CABLES
7	SEE	ATTACHED		CABLES

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREEN < 1000 dpm/100cm²

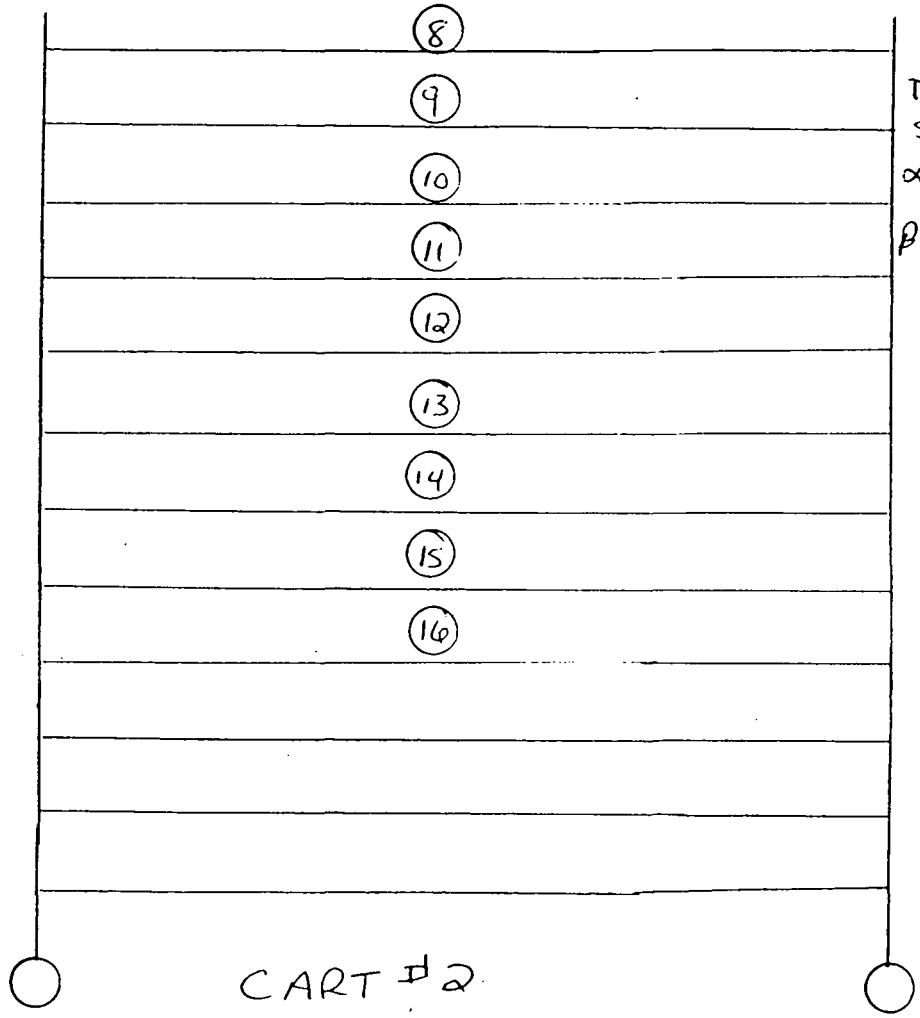
NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) 85	SURVEY NO 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO. N/A
	DATE: 7-11-00
	TIME: 1200

MAP / DRAWING



DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100$ dpm/100 cm^2
$\beta^- < 5000$ dpm/100 cm^2

CART CONTAINS PRINTER PAPER TRAYS

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · - = radiological boundary
△# = mrem/hr neutron
= air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00

Completed by: [redacted]	HP# 60196	Date: 7-11-00
Completed by: (Print Name) [redacted]		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		

ML-9620 (2-98) Computer Generated

Survey No.
00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
8	SEE	ATTACHED		PAPER TRAY
9				
10				PAPER TRAY
11				MONITOR STAND
12				PAPER TRAY
13				
14				
15				
16	SEE	ATTACHED		PAPER TRAY

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREEN < 1000 dpm/100 cm²

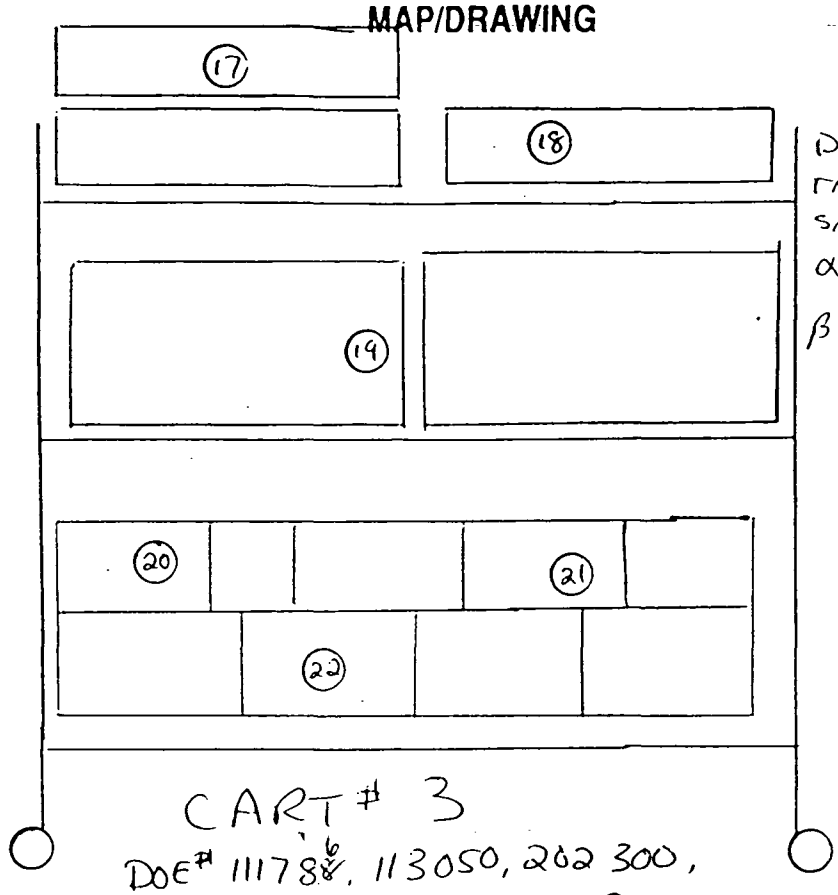
NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) 85	SURVEY NO. 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO. N/A
	DATE: 7-11-00
	TIME: 1200

MAP/DRAWING



DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100$ dpm/100cm^2
$\beta^- < 5000$ dpm/100cm^2

CART # 3
DOE# 111786, 113050, 202300, 203508, 205707, 300367, 300449, 300481, 300651 300724, 302618, 203267
CART CONTAINS COMPUTERS & SOFTWARE

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00
N		
	A	

Completed by: [redacted]	HP# 6196	Date: 7-11-00
Completed by: [redacted]		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
17	SEE	ATTACH	ED	COMPUTER
18	↓	↓	↓	COMPUTER
19	↓	↓	↓	COMPUTER
20	↓	↓	↓	SOFTWARE
21	↓	↓	↓	COMPUTER
22	SEE	ATTACHED		COMPUTER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED < 1000 dpm/100 cm²

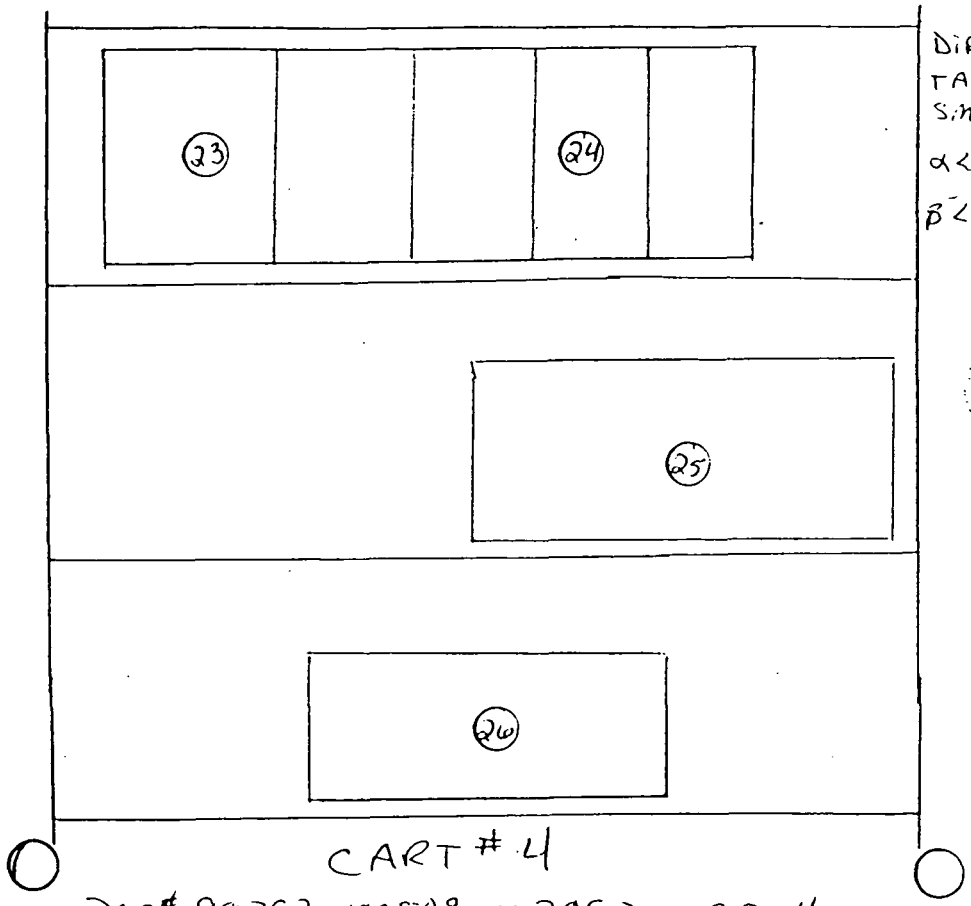
NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) 85	SURVEY NO. 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO. N/A
	DATE: 7-11-00
	TIME: 1200

MAP/DRAWING



DIRECT MEASUREMENTS TAKEN AT OR NEAR SIMEAR LOCATIONS
$\alpha < 100$ dpm/100cm²
$\beta^- < 5000$ dpm/100cm²

DOE# 98792, 100509, 102057, 109264
111351, 204149, 204535, 205614
CART CONTAINS COMPUTERS, COMPUTER W/CARRY CASE, AND COLOR PRINTER

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00
	N	
	A	

Completed by: [redacted]	HP# 6196	Date: 7-11-00
Completed by: [redacted]		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name) N		
Reviewed/Approved by: (Signature)	HP# A	Date:
Reviewed/Approved by: (Print Name)		

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
23	SEE	ATTACHED		COMPUTER
24	↓	↓	↓	COMPUTER
25	↓	↓	↓	COMPUTER W/CARRYCASE
26	SEE	ATTACHED		COLOR PRINTER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED <1000 dpm/100 cm²

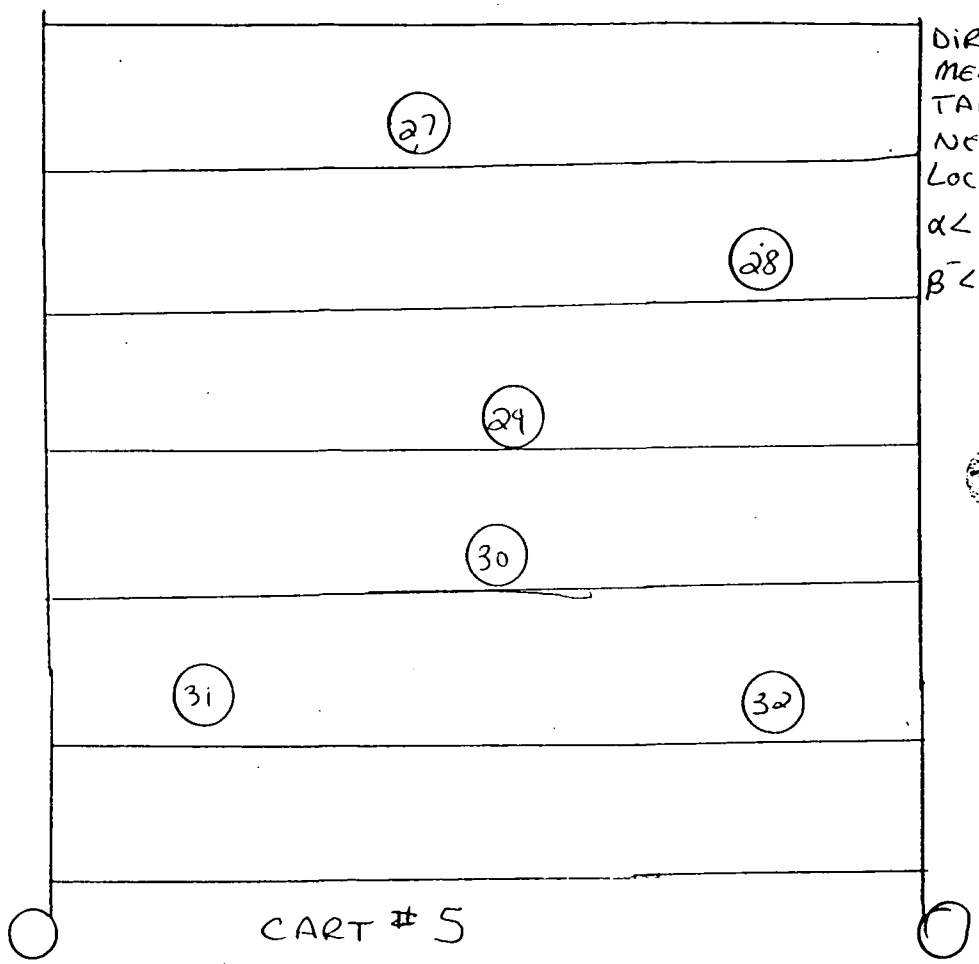
NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) 8S	SURVEY NO. 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 8S	RWP NO. N/A
	DATE: 7-11-00
	TIME: 1200

MAP/DRAWING



DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100$ dpm/100cm^2
$\beta^- < 5000$ dpm/100cm^2

CART # 5

DOE# 107798, 109549, 205194

CART CONTAINS POWER DIRECTORS, LUMINANCE METER, PRINTER AND DESKTOP COPIER

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00

Completed by: (Sig [redacted]	HP# 6196	Date: 7-11-00
Completed by: (Print Name) [redacted]		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
27	SEE	ATTA	CHED	POWER DIRECTOR
28	↓	↓	↓	POWER DIRECTOR
29				LUMINANCE METER
30				PRINTER
31				POWER DIRECTOR
32	SEE	ATTA	CHED	COPIER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED < 1000 dpm/100cm²

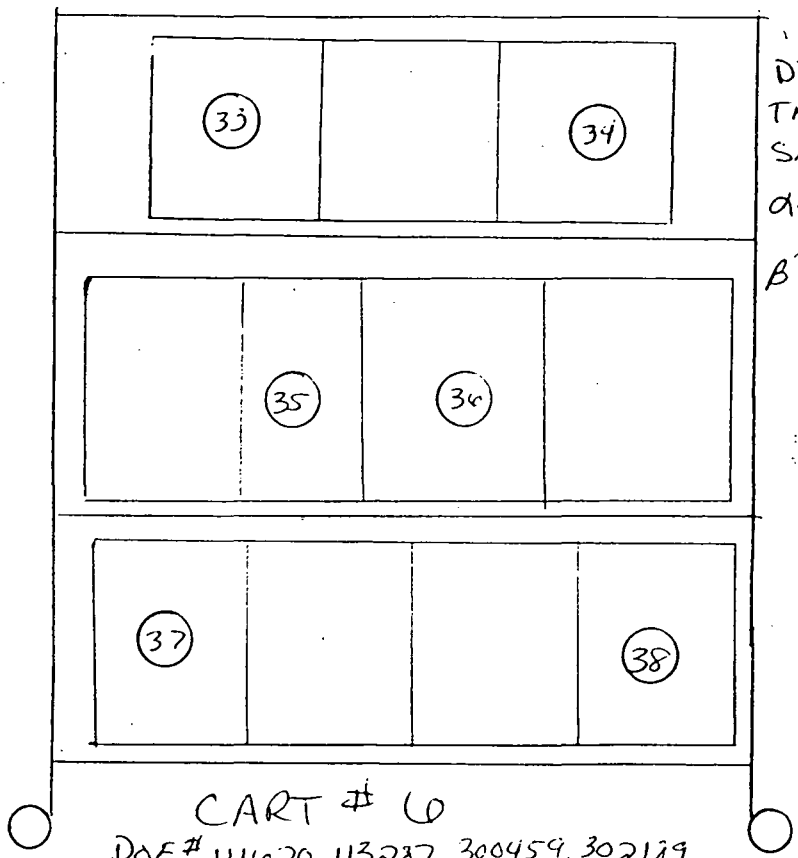
NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION (BLDG/AREA/ROOM) 85	SURVEY NO 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO N/A
	DATE 7-12-00
	TIME 0900

MAP / DRAWING



DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS

$\alpha < 100$ dpm/100 cm^2

$\beta < 5000$ dpm/100 cm^2

CART # 6

DOE # 111620, 113287, 300459, 302189

CART CONTAINS MONITORS

LEGEND:
- # ▪ mrem/hr (γ) whole body
- #E = mrem/hr (β+η+γ) extremity on contact
- K = factor of 1000
- ▪ radiological boundary
- △# = mrem/hr neutron
- # = air sample number
- (#) ▪ swipe number
- (#/α) or /β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NE ELECTRA	5435	10-25-00

Completed by: (Signature) [redacted]	HP# 6196	Date 7-12-00
Completed by (Print Name) [redacted]		
Counted by (Signature)	HP#	Date
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		

Survey No.
00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
33	SEE	ATTACHED		MONITOR
34	↓	↓	↓	↓
35	↓	↓	↓	↓
36	↓	↓	↓	↓
37	↓	↓	↓	↓
38	SEE	ATTACHED		MONITOR
	N		A	

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
	N		A	

COMMENTS: SMEARS FIELD SCREENED < 1000 dpm / 100cm²

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

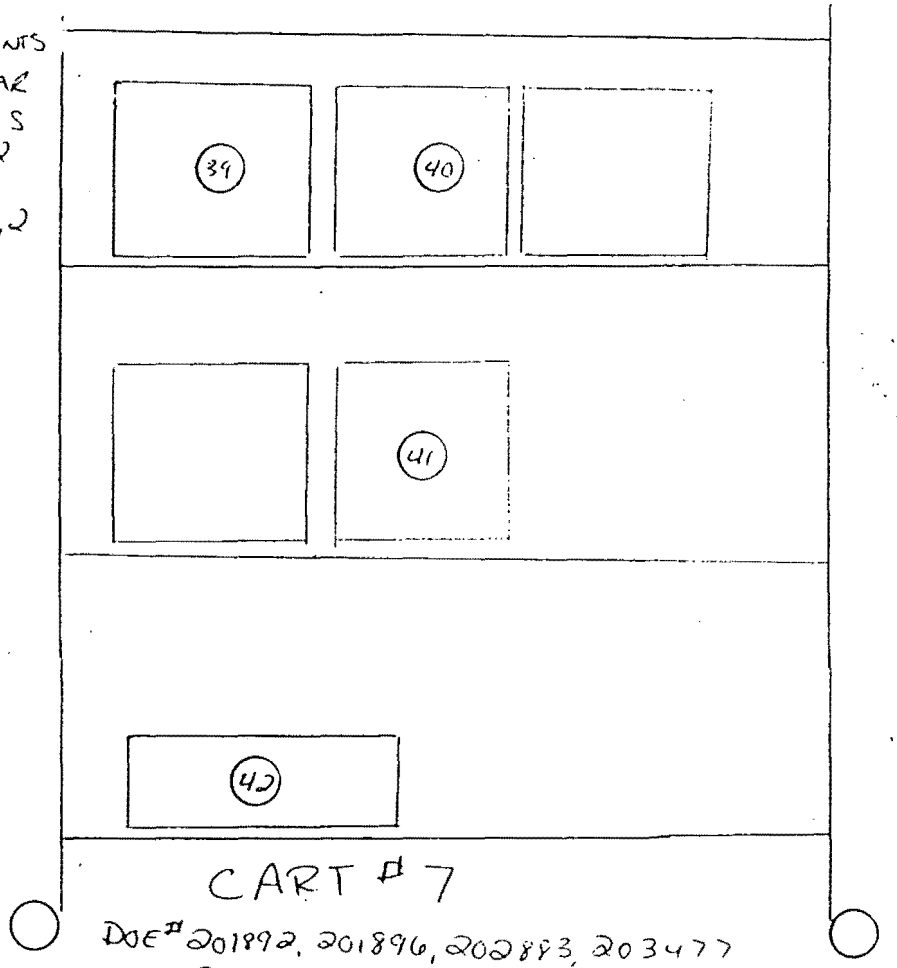
ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION (BLDG/AREA/ROOM) 85	SURVEY NO 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO N/A
	DATE 7-12-00
	TIME 0900

MAP / DRAWING

DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100 dpm/100 cm^2$
$\beta < 5000 dpm/100 cm^2$



LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · = ▫ radiological boundary
△# = mrem/hr neutron
= air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NE ELECTRA	5435	10-25-00
N		
	A	

Completed by. (Signa[redacted]	HP# 6196	Date 7-12-00
Completed by (Print Name) [redacted]		
Counted by (Signature)	HP#	Date
Counted by (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by (Print Name)		

Survey No. 00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
39	SEE	ATTACHED		MONITOR
40	↓	↓	↓	MONITOR
41				MONITOR
42	SEE	ATTACHED		COMPUTER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

N/A

N/A

COMMENTS: SMEARS field SCREENED < 1000 dpm/100 cm²

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM) 85	SURVEY NO. 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO. N/A
	DATE: 7-12-00
	TIME: 0900

MAP / DRAWING

SEE PAGE 16 FOR SMEAR DESCRIPTION
APPROX EVERY 3RD KEYBOARD WAS SMEARED

DIRECT MEASUREMENTS TAKEN ON ALL KEYBOARDS
$\alpha < 100$ dpm/100 cm^2
$\beta^- < 5000$ dpm/100 cm^2

CART # 8
DOE# 107975, 200724

CART CONTAINS KEYBOARDS AND PRINTERS

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · — = radiological boundary
△# = mrem/hr neutron
= air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00
N		
	A	

Completed by: (Sig[redacted]	HP# 60196	Date: 7-12-00
Completed by: (Prin[redacted]		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		

Survey No. 00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
43	SEE	ATTA	CHED	KEYBOARD
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				KEYBOARD
59				PRINTER
60	SEE	ATTA	CHED	PRINTER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED <1000 dpm/100cm²

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

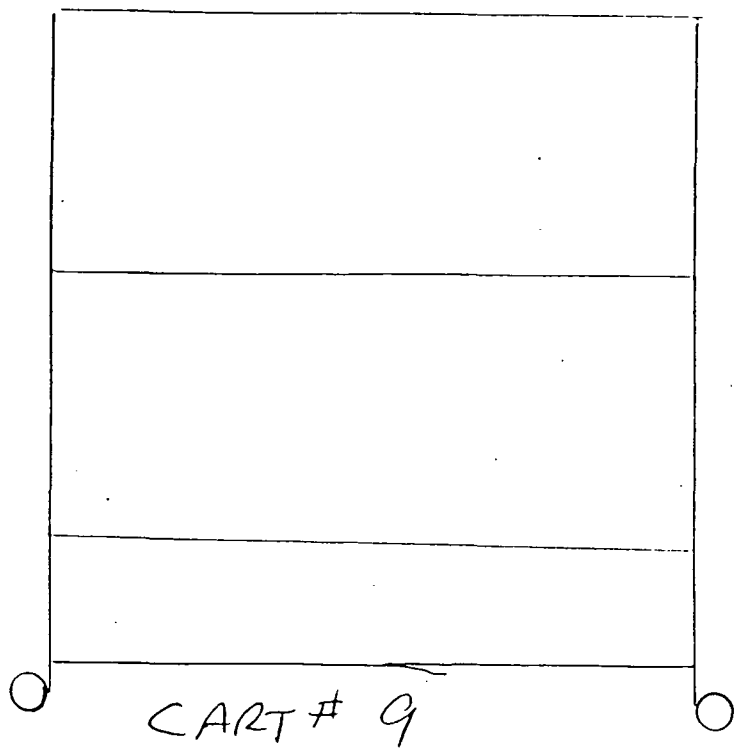
LOCATION (BLDG/AREA/ROOM): 85	SURVEY NO.: 00-TF-258
PURPOSE: CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO: N/A
	DATE: 7-12-00
	TIME: 0900

MAP / DRAWING

SEE NEXT PAG FOR SMEAR LOCATIONS
. DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS

$\alpha < 100$ dpm/100cm^2

$\beta < 5000$ dpm/100cm^2



CART # 9

DOE# 111495, 114188, 200652
201864, 300451, 300478

CART CONTAINS MONITORS, KEY BOARDS, AND A COMPUTER

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · · = radiological boundary
△# = mrem/hr neutron
□# = air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00
N		
	A	

Completed by (Sign [redacted]	HP# 6196	Date 7-12-00
Completed by (Print [redacted]		
Counted by (Signature)	HP#	Date
Counted by (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date
Reviewed/Approved by: (Print Name)		

Survey No. 00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
61	SEE	ATTACHED		KEYBOARD
62				
63				
64				KEYBOARD
65				MONITOR
66				
67				
68				
69				MONITOR
70	SEE	ATTACHED		COMPUTER

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED < 1000 dpm/100cm²

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

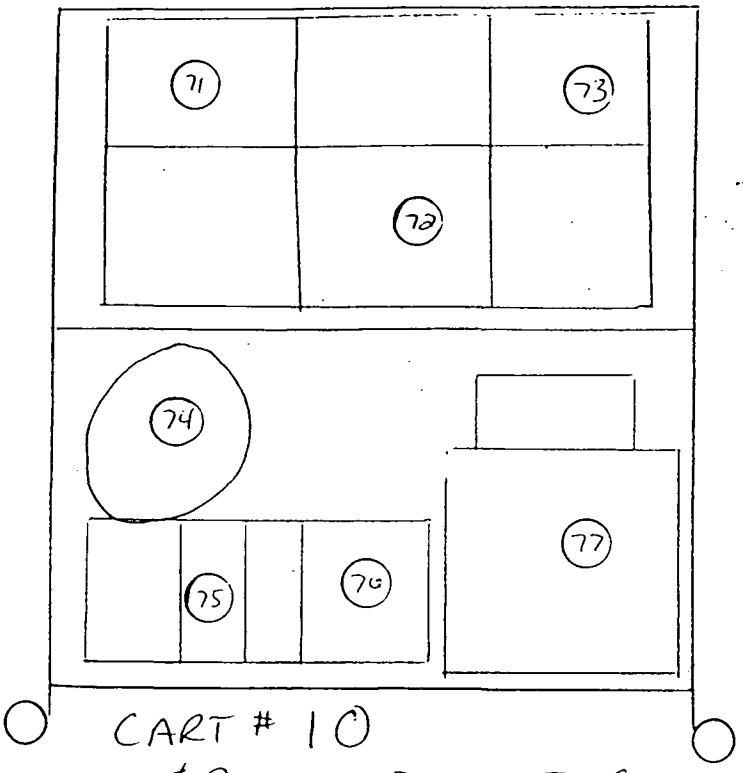
ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION (BLDG /AREA/ROOM) 8S	SURVEY NO 00-TF-258
PURPOSE CUSORY SURVEY OF ITEMS IN BUILDING 8S	RWP NO N/A
	DATE: 7-12-00
	TIME: 0900

MAP / DRAWING

DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100$ dpm/100 cm^2 $\beta^- < 5000$ dpm/100 cm^2



CART # 10
DOE# 96788, 103317, 105697
202257, 300104

CART CONTAINS MONITORS, MICROSCOPES
AND A/V EQUIPMENT

LEGEND
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · — = radiological boundary
△# = mrem/hr neutron
= air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NE ELECTRA	5435	10-25-00

Completed by (Signa[redacted]	HP# 6196	Date 7-12-00
Completed by (Print [redacted]		
Counted by (Signature)	HP#	Date
Counted by (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date
Reviewed/Approved by: (Print Name)		

Survey No. 00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
71	SEE	ATTACHED		MONITOR
72				MONITOR
73				MONITOR
74				PROJECTOR
75				MICROSCOPE
76				MONITOR
77	SEE	ATTACHED		TELEVISION

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED <1000 dpm/100cm²

NOTES:

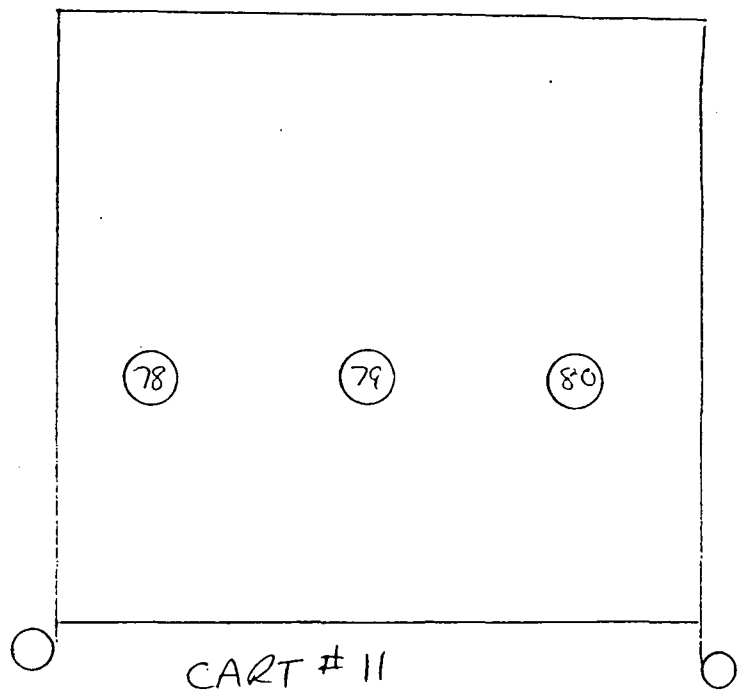
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A

ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION. (BLDG /AREA/ROOM) 8S	SURVEY NO 00-TF-258
PURPOSE CUSORY SURVEY OF ITEMS IN BUILDING 8S	RWP NO N/A
	DATE: 7-12-00
	TIME: 0900

MAP / DRAWING



CART # 11

CART CONTAINS A/V EQUIPMENT

DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS

$\alpha < 100$ dpm/100 cm^2 $\beta < 5000$ dpm/100 cm^2

LEGEND:
- # = mrem/hr (γ) whole body
- #E = mrem/hr (β+n+γ) extremity on contact
- K = factor of 1000
- — · — · — = radiological boundary
- △# = mrem/hr neutron
- □# = air sample number
- (#) = swipe number
- (#/α) or /β = direct contamination measurement in dpm/100 cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5435	10-25-00

Completed by: (Signature) [redacted]	HP# 6196	Date: 7-12-00
Completed by (Print Name) [redacted]		
Counted by (Signature)	HP#	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date
Reviewed/Approved by: (Print Name)		

Survey No.
00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
78	SEE	ATTACHED		OVERHEAD PROJECTOR
79	↓	↓	↓	PROJECTOR
80	SEE	ATTACHED		CASE

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED <1000 dpm/100cm²

NOTES:
1 See MD-80036 10002 for calculations of WB, extremity and skin dose rates
2 To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3 Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A

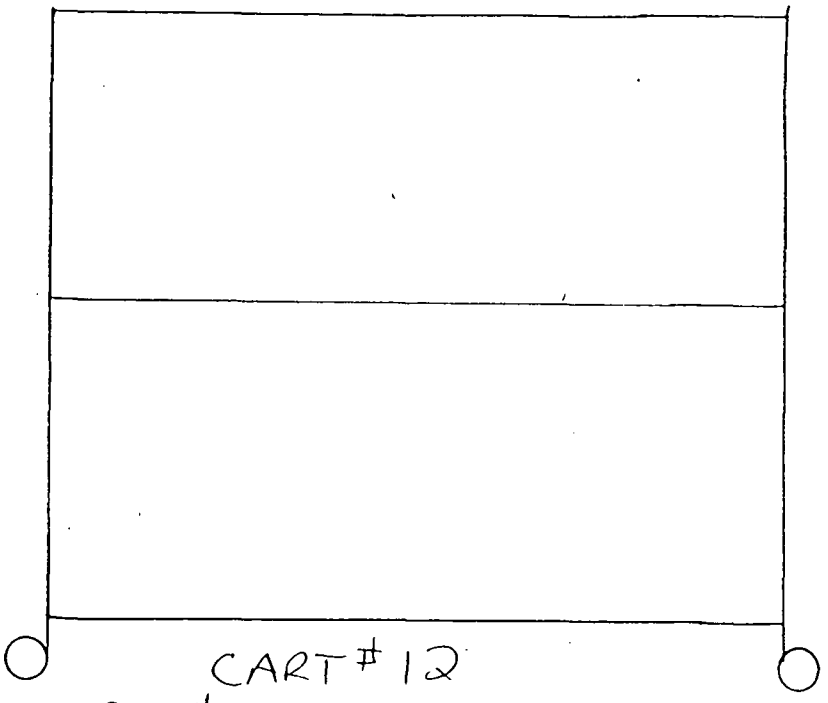
ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION. (BLDG /AREA/ROOM) 85	SURVEY NO 00-TF-258
PURPOSE CUSORY SURVEY OF ITEMS IN BUILDING 85	RWP NO N/A
	DATE 7-13-00
	TIME 1000

MAP / DRAWING

SEE NEXT PAGE FOR SMEAR LOCATIONS
DIRECT MEASUREMENTS TAKEN AT OR NEAR SMEAR LOCATIONS
$\alpha < 100$ dpm/100 cm^2 $\beta' < 5000$ dpm/100 cm^2



CART # 12
DOE# 78250, 111701, 204033, 300376

CART CONTAINS MONITORS, PRINTERS, SCALES AND COMPUTER

LEGEND:
= mrem/hr (γ) whole body
#E = mrem/hr (β+η+γ) extremity on contact
K = factor of 1000
— · — · · = radiological boundary
△# = mrem/hr neutron
□# = air sample number
(#) = swipe number
(#/α) or /β = direct contamination measurement in dpm/100 cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal Due Date
NE ELECTRA	5435	10-25-00

Completed by: (Sig[redacted]	HP# 6196	Date 7-13-00
Completed by (Prin[redacted]		
Counted by (Signature)	HP#	Date
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HP#	Date
Reviewed/Approved by: (Print Name)		

Survey No.
00-TF-258

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
81	SEE	ATTACHED		MONITOR
82				MONITOR
83				SCALES
84				PLOTTER
85				PLOTTER
86				PRINTER
87				POWER DIRECTOR
88				COMPUTER W.OH CASE
89				BRANSON
90				SCALES
91				SCALES
92				COMPUTER
93	SEE	ATTACHED		BOX

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COMMENTS: SMEARS FIELD SCREENED < 1000 dpm/100 cm²

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

ML-9620A (4-98)

Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Blue
Data file name: SMEAR097
Batch Ended: 7/18/2000 15:22
Cal. Due Date: 5/22/2001
Serial Number: 26966-3

Alpha activity action level (DPM): 20
Beta activity action level (DPM): 200

Batch ID: 00-TF-258 RUBADUE - BSB

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A1	1	0.00	2.09	<MDA	4.48	3.34	<AL
A2	2	0.00	2.21	<MDA	0.00	1.54	<MDA
A3	3	0.00	1.92	<MDA	0.00	1.31	<MDA
A4	4	0.00	2.15	<MDA	0.46	2.06	<MDA
B1	5	1.28	2.05	<MDA	0.48	2.10	<MDA
B2	6	0.00	1.89	<MDA	0.45	1.91	<MDA
B3	7	0.00	2.01	<MDA	0.00	1.54	<MDA
B4	8	1.47	1.93	<MDA	0.00	1.46	<MDA
C1	9	2.67	2.36	<AL	0.00	1.70	<MDA
C2	10	0.00	1.79	<MDA	0.00	1.24	<MDA
C3	11	1.18	2.03	<MDA	1.54	2.31	<MDA
C4	12	0.00	1.84	<MDA	0.45	2.38	<MDA
D1	13	0.00	2.01	<MDA	0.00	1.50	<MDA
D2	14	0.00	2.04	<MDA	0.16	1.74	<MDA
D3	15	1.55	2.12	<MDA	0.19	2.09	<MDA
D4	16	1.64	2.02	<AL	3.69	2.71	<AL

MJR MJR

PAGE 26 of 31

Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Blue
Data file name: SMEAR094
Batch Ended: 7/18/2000 14:45
Cal. Due Date: 5/22/2001
Serial Number: 26966-3

Alpha activity action level (DPM): 20
Beta activity action level (DPM): 200

Batch ID: 00-TF-258 RUBADUE - BSB

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A1	17	0.00	2.05	<MDA	0.00	1.50	<MDA
A2	18	0.00	2.21	<MDA	0.00	1.54	<MDA
A3	19	1.60	1.92	<AL	0.00	1.31	<MDA
A4	20	0.00	2.14	<MDA	0.00	1.56	<MDA
B1	21	1.28	2.05	<MDA	0.48	2.10	<MDA
B2	22	4.96	3.22	<AL	1.42	2.30	<MDA
B3	23	1.43	2.01	<MDA	0.00	1.54	<MDA
B4	24	0.00	1.93	<MDA	0.00	1.46	<MDA
C1	25	1.04	1.71	<MDA	0.00	1.70	<MDA
C2	26	0.00	1.79	<MDA	0.00	1.24	<MDA
C3	27	0.00	2.02	<MDA	0.45	1.95	<MDA
C4	28	1.22	1.86	<MDA	2.50	2.85	<MDA
D1	29	0.00	2.01	<MDA	0.00	1.50	<MDA
D2	30	0.00	2.05	<MDA	1.31	2.09	<MDA
D3	31	0.00	2.13	<MDA	1.72	2.51	<MDA
D4	32	0.00	2.01	<MDA	1.44	2.13	<MDA
A1	33	0.82	2.06	<MDA	0.00	2.28	<MDA
A2	34	6.01	3.80	<AL	4.21	3.20	<AL
A3	35	0.00	1.95	<MDA	3.94	2.65	<AL
A4	36	0.00	2.15	<MDA	0.46	2.06	<MDA
B1	37	1.28	2.05	<MDA	0.48	2.10	<MDA
B2	38	0.00	1.89	<MDA	0.45	1.91	<MDA
B3	39	0.00	2.01	<MDA	0.54	2.09	<MDA
B4	40	1.16	1.95	<MDA	4.48	3.00	<AL
C1	41	1.04	1.73	<MDA	0.24	2.30	<MDA
C2	42	1.13	1.80	<MDA	0.00	1.64	<MDA
C3	43	1.18	2.01	<MDA	0.00	1.49	<MDA

MDL MDL

COPY

Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Blue
Data file name: SMEAR094
Batch Ended: 7/18/2000 14:45
Cal. Due Date: 5/22/2001
Serial Number: 26966-3

Alpha activity action level (DPM): 20
Beta activity action level (DPM): 200

Batch ID: 00-TF-258 RUBADUE - BSB

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
C4	44	0.00	1.85	<MDA	1.56	2.63	<MDA
D1	45	3.58	2.80	<AL	0.00	1.50	<MDA
D2	46	1.72	2.04	<AL	0.03	1.74	<MDA
D3	47	0.00	2.12	<MDA	0.34	2.09	<MDA
D4	48	0.00	1.99	<MDA	0.00	1.33	<MDA
A1	49	0.00	2.06	<MDA	0.00	2.28	<MDA
A2	50	1.68	2.26	<MDA	4.55	3.20	<AL
A3	51	0.00	1.94	<MDA	1.63	2.09	<MDA
A4	52	0.00	2.14	<MDA	0.00	1.56	<MDA
B1	53	1.28	2.05	<MDA	0.48	2.10	<MDA
B2	54	0.00	1.89	<MDA	0.45	1.91	<MDA
B3	55	3.18	2.82	<AL	4.60	3.23	<AL
B4	56	0.00	1.93	<MDA	0.00	1.46	<MDA
C1	57	1.04	1.71	<MDA	0.00	1.70	<MDA
C2	58	0.00	1.80	<MDA	0.00	1.64	<MDA
C3	59	0.00	2.01	<MDA	0.00	1.49	<MDA
C4	60	0.00	1.84	<MDA	0.45	2.38	<MDA
D1	61	0.00	2.01	<MDA	0.00	1.50	<MDA
D2	62	0.00	2.05	<MDA	1.31	2.09	<MDA
D3	63	0.00	2.12	<MDA	0.34	2.09	<MDA
D4	64	0.00	1.99	<MDA	0.00	1.33	<MDA
A1	65	0.00	2.06	<MDA	0.00	1.93	<MDA
A2	66	1.69	2.22	<MDA	0.35	2.08	<MDA
A3	67	0.00	1.92	<MDA	0.00	1.31	<MDA
A4	68	0.00	2.16	<MDA	1.81	2.46	<MDA
B1	69	0.00	2.05	<MDA	0.00	1.56	<MDA
B2	70	3.06	2.65	<AL	2.80	2.63	<MDA
B3	71	3.28	2.81	<AL	1.76	2.53	<MDA
B4	72	1.10	1.95	<MDA	5.79	3.27	<AL
C1	73	0.00	1.72	<MDA	0.00	2.03	<MDA

MJC MJC

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Smear Analysis

Unit Type: LB4100/W
Counting Unit ID: Blue
Data file name: SMEAR094
Batch Ended: 7/18/2000 14:45
Cal. Due Date: 5/22/2001
Serial Number: 26966-3

Alpha activity action level (DPM): 20
Beta activity action level (DPM): 200

Batch ID: 00-TF-258 RUBADUE - BSB

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
C2	74	0.00	1.80	<MDA	0.00	1.64	<MDA
C3	75	0.00	2.03	<MDA	1.70	2.31	<MDA
C4	76	0.00	1.88	<MDA	3.78	3.06	<AL
D1	77	0.00	2.03	<MDA	0.20	1.99	<MDA
D2	78	0.00	2.04	<MDA	0.16	1.74	<MDA
D3	79	0.00	2.12	<MDA	0.34	2.09	<MDA
D4	80	0.00	2.01	<MDA	1.44	2.13	<MDA
A1	81	0.82	2.05	<MDA	0.00	1.50	<MDA
A2	82	0.00	2.22	<MDA	0.51	2.08	<MDA
A3	83	5.37	3.30	<AL	1.29	2.09	<MDA
A4	84	0.00	2.16	<MDA	1.81	2.46	<MDA
B1	85	0.00	2.05	<MDA	0.00	1.56	<MDA
B2	86	3.12	2.65	<AL	1.52	2.30	<MDA
B3	87	0.00	2.01	<MDA	0.00	1.54	<MDA
B4	88	1.28	1.94	<MDA	1.86	2.36	<MDA
C1	89	1.04	1.77	<MDA	3.53	2.99	<MDA
C2	90	0.00	1.79	<MDA	0.00	1.24	<MDA
C3	91	0.00	2.02	<MDA	0.45	1.95	<MDA
C4	92	0.00	1.84	<MDA	0.45	2.38	<MDA
D1	93	0.00	2.04	<MDA	1.51	2.38	<MDA

NOT NOT

18 Jul 2000 17:28 TRI-CARB - 1.09
Protocol #: 4 Pw H3 20cc #407906 User : 5268

Time: 2.00
Data Mode: DPM Nuclide: SMVIAL3 Quench Set: SMVIAL3
Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.5	18.6	0	0.0	8.21
Region B:	2.0	18.6	0	0.0	7.81
Region C:	40.0	2000	0	0.0	10.00

COPY

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
[illegible]-T-258 RUBADUE(30-21)93 BSB
Luminescence Correction On
Coincidence Time(ns): .18
Delay Before Burst(ns): Normal
Protocol Data Filename: C:\DATA\PROT1.DAT
Count Data Filename: C:\DATA\SDATA4.DAT
Spectrum Data Drive & Path: C:\DATA

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2SIGMA	CPMC
-1	10.00	8.21	7.81	0	B	655.05		0.000	10.00
0	2.00	795.18	725.35	0		525.51	3620.20	262.317	3.50
1	2.00	1.56	1.38	[illegible]		631.87	3.61	11.024	0.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		618.88	0.00	0.000	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	0.00	0.000	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			515.[illegible]	[illegible]	[illegible]	0.00
[illegible]	[illegible]	1.29	1.8[illegible]	[illegible]		586.9[illegible]	17.08	62.549	0.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		554.44	0.00	0.000	0.00
[illegible]	[illegible]	[illegible].52	0.21	0		563.14	[illegible]	5[illegible].97[illegible]	[illegible]
[illegible]	2.00	0.00	0.00	0		587.00	0.00	0.000	3.00
13	2.00	0.00	0.00	0		599.55	0.00	0.000	0.00
14	2.00	0.00	0.00	0		577.57	0.00	0.000	0.00
15	2.00	0.00	0.00	0		607.15	0.00	0.000	2.00
16	2.00	2.20	2.60	0		573.73	61.88	138.348	0.00
17	2.00	0.79	0.07	0		619.65	2.34	13.725	0.00
18	2.00	0.00	0.00	0		614.09	0.00	0.000	2.00
19	2.00	0.00	0.00	0		516.89	0.00	0.000	0.00
20	2.00	0.00	0.00	0		629.20	0.00	0.000	2.50
21	2.00	0.00	0.00	0		625.96	0.00	0.000	0.00
22	2.00	5.29	4.91	0		599.50	30.11	31.375	0.00
23	2.00	0.00	0.00	0		616.13	0.00	0.000	0.00
[illegible]	2.00	1.79	2.02	0		541.88	11.38	30.716	0.00
26	2.00	0.00	0.00	0		555.76	0.00	0.000	0.00
27	2.00	2.79	2.44	0		515.37	10.79	19.473	0.00
28	2.00	0.00	0.00	0		588.46	0.00	0.000	0.00
29	2.00	3.13	2.88	0		629.46	7.57	12.307	0.00
30	2.00	3.30	3.22	0		579.66	187.80	292.394	0.50
31	2.00	2.87	2.67	0		613.62	9.95	17.512	0.00
32	2.00	4.79	4.25	0		578.03	250.65	283.598	1.00
33	2.00	0.79	0.43	0		589.39	8.29	48.531	0.00
34	2.00	⊗3.55	3.75	0		560.54	41.35	60.339	2.50

#7 [redacted] H10 7/18/00

MJR

18 Jul 2000 19:03 TRI-CARB - 1.09
Protocol #: 4 Pw H3 20cc #407906 User : 5268

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2SIGMA	CPMC
35	2.00	1.29	0.69	0		583.18	28.26	103.594	0.00
36	2.00	0.00	0.00	0		590.54	0.00	0.000	0.00
37	2.00	3.29	3.36	0		629.59	7.91	12.348	0.00
38	2.00	1.29	1.19	0		608.42	5.33	19.140	0.00
39	2.00	1.94	2.03	0		617.83	6.02	15.101	0.00
40	2.00	3.79	2.68	0		587.64	34.35	61.988	0.00
41	2.00	0.00	0.00	0		608.15	0.00	0.000	0.00
42	2.00	2.29	0.87	0		621.98	6.45	13.896	4.22
43	2.00	0.00	0.00	0		565.90	0.00	0.000	0.00
44	2.00	0.00	0.00	0		591.89	0.00	0.000	0.00
45	2.00	0.00	0.00	0		512.82	0.00	0.000	2.16
46	2.00	1.00	1.14	0		591.88	8.70	40.543	0.50
47	2.00	0.79	1.19	0		591.72	8.93	40.594	0.00
48	2.00	3.17	3.57	0		601.96	16.33	26.152	1.45
49	2.00	0.00	0.00	0		590.68	0.00	0.000	0.00
50	2.00	0.00	0.00	0		549.19	0.00	0.000	0.00
51	2.00	2.73	2.53	0		605.69	12.15	22.313	0.00
52	2.00	5.29	5.06	0		621.72	14.99	15.622	0.00
53	2.00	0.00	0.00	0		617.98	0.00	0.000	0.00
54	2.00	0.00	0.00	0		548.88	0.00	0.000	0.00
55	2.00	0.00	0.00	0		549.75	0.00	0.000	0.83
56	2.00	0.00	0.00	0		619.47	0.00	0.000	0.00
57	2.00	1.29	1.19	0		613.56	4.48	16.411	0.00
58	2.00	0.00	0.00	0		577.33	0.00	0.000	1.31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
61	2.00	0.00	0.00	0		621.38	0.00	0.000	0.00
62	2.00	0.00	0.00	0		610.11	0.00	0.000	0.00
63	2.00	5.29	5.06	0		611.36	13.13	20.047	0.00
64	2.00	0.04	0.00	0		594.43	0.82	32.899	0.00
65	2.00	1.79	2.13	0		586.54	24.70	68.681	0.00
66	2.00	0.00	0.00	0		558.13	0.00	0.000	0.00
67	2.00	2.29	2.69	0		544.86	30.57	47.638	0.00
68	2.00	13.29	7.83	0		587.35	188.86	88.795	2.00
69	2.00	0.00	0.00	0		593.11	0.00	0.000	0.00
70	2.00	0.00	0.00	0		599.58	0.00	0.000	0.00
71	2.00	0.00	0.00	0		574.77	0.00	0.000	3.00
72	2.00	0.79	0.19	0		555.30	7.42	43.423	0.00
73	2.00	0.00	0.00	0		524.72	0.00	0.000	0.00
74	2.00	0.00	0.00	0		613.19	0.00	0.000	0.00
75	2.00	1.96	0.65	0		559.32	21.60	53.702	0.98
76	2.00	0.00	0.00	0		547.30	0.00	0.000	0.00
77	2.00	0.00	0.00	0		450.64	0.00	0.000	0.00
78	2.00	2.79	2.39	0		489.86	7.84	14.141	0.00
79	2.00	0.00	0.00	0		575.81	0.00	0.000	0.00
81	2.00	4.77	3.23	0		578.27	262.66	297.988	3.50
82	2.00	0.00	0.00	0		552.32	0.00	0.000	1.00
83	2.00	0.00	0.00	0		502.91	0.00	0.000	1.00
84	2.00	0.00	0.00	0		548.25	0.00	0.000	0.38
85	2.00	2.79	3.13	0		570.75	59.45	107.275	0.00
86	2.00	2.48	2.37	0		590.71	33.50	47.071	0.00
87	2.00	0.00	0.00	0		553.71	0.00	0.000	0.00
88	2.00	0.00	0.00	0		608.32	0.00	0.000	1.00
89	2.00	4.98	3.69	0		585.63	76.46	83.776	0.00
90	2.00	0.00	0.00	0		638.49	0.00	0.000	2.50

MJR

18 Jul 2000 21:36 TRI-CARB - 1.09
Protocol #: 4 Pw H3 20cc #407906 User : 5268

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2SIGMA	CPMC
91	2.00	0.00	0.00	0		615.78	0.00	0.000	0.00
92	2.00	0.00	0.00	0		574.68	0.00	0.000	0.00
93	2.00	0.00	0.00	0		595.58	0.00	0.000	0.00

MJK

Appendix H

Radon Summary/Information

RADON SUMMARY INFORMATION
Appendix H

Building 85 was not included in the April 12, 1990 sitewide radon study conducted by UNC Geotech. Therefore, no radon information exists for this building.

Appendix I

Asbestos Summary/Information

Date: July 24, 2001

From: Christopher Ahlquist
Industrial Hygienist

To: Robert Ransbottom

Re: Building 85: Asbestos-Containing Materials Inspection

On July 16 and 17, 2001, Mr. Chris Ahlquist, an Industrial Hygienist with BWXT of Ohio, Inc. (BWXT), conducted a survey of Building 85 at the Mound site in Miamisburg, Ohio for purpose of identifying asbestos-containing materials prior to demolition as required by the EPA's NESHAP regulation. Mr. Ahlquist is an Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist as required by Ohio Department of Health regulations. During the course of the survey, Mr. Ahlquist reviewed previous survey reports and collected bulk samples of materials found within Building 85 as necessary in order to determine the asbestos content of said materials. A room-by-room inspection of all accessible spaces was then conducted in order to prepare an inventory of the location and approximate quantities of identified asbestos-containing materials. No asbestos content was found in any of the samples collected. No roofing materials or fire door linings (if they exist) were sampled during the course of this or previous referenced surveys, and all such materials should be assumed to contain asbestos until analysis indicates otherwise.

Sample Method

During BWXT's survey bulk samples were collected utilizing sampling methods and protocol specified in the EPA's Asbestos Hazard Emergency Response Act (AHERA). Each sample was collected and placed in a clean, sealable hard-shell container and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Data Sheet including sample identification number, date of inspection, name of inspector, building name, a brief description and location of the sample, and the type of material sampled (e.g., preformed-block pipe insulation, aircell-paper pipe insulation, etc.).

Analysis of Samples

The samples were submitted to DataChem Laboratories of Cincinnati, Ohio and analyzed for asbestos content by PLM and dispersion staining (Method Reference: 40 CFR Part 763, Volume 47, No. 103, May 27, 1982 pg. 23376). This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of suspect materials, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos. The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percentage) within the range of 0 to 100. The result of the bulk sample analysis is reported in a standard written laboratory report. This report includes the client name, the project number, the

laboratory identification number, the sample number assigned to the bulk sample upon receipt at the laboratory, and the field number assigned to the bulk sample upon collection at the site. If the bulk sample contains more than one distinct layer of material, each layer is analyzed separately. The composition of the bulk sample is reported in percentages of asbestos (i.e., cellulose, fiberglass, or other) components. The results of the sample analyses can be found on the laboratory reports.

DataChem Laboratories is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code #101917-0). NVLAP is the agency sponsored by the National Institute of Standards and Technology providing EPA accreditation of laboratories analyzing bulk samples for asbestos content.

Conclusions

Three different materials (each represented by a unique assigned homogeneous area number) were determined to be suspect for containing asbestos. Samples were collected from these materials, analyzed for asbestos content, and found *not* to contain asbestos. One material (asphalt-based built-up roofing) was assumed to contain asbestos since the building is scheduled for demolition and the EPA does not require its removal if it remains nonfriable during demolition. The EPA will have to be notified in writing on the proper form of the intent to demolish the structure.

Please call with any questions or concerns.

Respectfully,

Christopher Ahlquist
Industrial Hygienist

USE CATEGORY	
C	This procedure shall be available to workers, though not necessarily at the work location. This procedure may be performed without referring to the procedure; however, the user is still responsible for adhering to the procedure.

ML-9771A

TECHNICAL MANUAL

MD-10391, ISSUE 5
ASBESTOS PROGRAM MANUAL

MOUND

ML-5872(1-89)

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This issue has been reviewed and approved for publication by TR, Evan Kirk.

2/23/99
Date

CHANGES INCORPORATED

- [x] Replace Pages 1, 2, 15, 16, 17, 18, 23, 24, 55, 56, 59, 60, 77 and 78
- [ ] Insert (New Pages)
- [ ] Remove
- [ ] Complete Reprint

All appropriate reviews were conducted. This issue is authorized for use by Advance Change Order on file in Technical Manuals.

M. D. Miller, Manager 11-12-98
Industrial Safety & Health

TR - TECHNICAL RESPONSIBILITY E - EDITOR

TABLE 1
BUILDING INFORMATION FOR EG&G MOUND FACILITY

Compiled by: Mound Industrial Hygiene

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
A	1948	55,582	Yes
B	1948	27,735	Yes
C	1948	13,403	Yes
COS	1986	64,654	Suspected[2]
DS	1965	47,810	Yes
E	1948	47,755	Yes
EG1	1973	240	Suspected[2]
EG2	1973	240	Suspected[2]
EG4	1958	148	Suspected[2]
EG6	1975	240	Suspected[2]
EG7	1972	80	Suspected[2]
FH1	1948	400	No
FH2	1948	400	No
G	1948	7,518	Yes
GH	1948	5,347	Yes
GH44	1963	365	Assumed[3]
GIS	1948	166	Yes
GP-1	1949	7,792	Yes
GP44	1971	365	Assumed[3]
GW	1968	9,782	Yes
H	1948	17,334	Yes
HH	1948	15,276	Yes

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
I	1948	25,736	Yes
M	1948	56,018	Yes
OSE	1986	90,072	Assumed[3]
OSW	1974	54,280	Yes
P	1948	15,143	Yes
PH	1948	646	Yes
PS	1963	2,288	Yes
R	1948	55,003	Yes
SD	1948	1,593	Yes
SST	1973	590	Suspected[2]
SW	1951	43,066	Yes
T	1948	172,963	Yes
W	1948	32,484	Yes
WD	1948	16,216	Yes
WDA	1966	5,000	Yes
WH1	1960	374	No
WH2	1960	374	No
WH3	1960	128	No
1	1957	986	Yes
2	1959	6,291	Yes
3	1964	12,391	Yes
5	1948	314	No
6	1948	90	No
7	1986	387	No
8	1986	66	No

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
10	1986	66	No
11	1986	372	No
13	1960	47	Suspected[2]
14	1986	53	Suspected[2]
16	1960	480	Yes
17	1961	1,120	Yes
19	1963	4,480	No
20	1986	303	No
21	1966	4,069	Suspected[2]
22	1966	9,090	No
23	1966	3,422	Yes
24	1966	840	Yes
25	1966	430	Yes
26	1965	800	Assumed[3]
27	1968	5,285	Yes
28	1966	11,329	Yes
29	1964	6,601	Yes
30	1964	740	Yes
31	1966	8,740	Suspected[2]
33	1965	1,344	Yes
34	1965	1,100	No
35	----	2,500	Yes
36	1968	4,255	Yes
37	1968	2,463	Yes
38	1968	44,327	Yes

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
39	1967	3,515	No
40	1968	12,227	Yes
42	1969	2,892	Yes
43	1969	1,516	Yes
44	1969	2,480	Yes
45	1970	2,775	Yes
46	1969	2,439	Yes
47	1969	3,611	Yes
48	1970	7,950	Yes
49	1970	14,929	Yes
50	1971	14,849	Yes
51	1972	3,541	Assumed[3]
52	1973	78	No
53	1986	239	No
54	1986	331	No
55	1973	330	No
56	1973	613	Yes
57	1975	510	Yes
58	1977	6,110	No
59	1978	668	Suspected[2]
60	1980	3,958	Yes
61	1983	45,490	Suspected[2]
62	1980	290	Yes
63	1981	16,461	Assumed[3]
64	----	72	No

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
65	1979	2,400	Assumed[3]
66	1979	600	Suspected[2]
67	1982	3,787	Assumed[3]
68	1979	1,990	Suspected[2]
69	1981	1,620	Suspected[2]
70	1982	3,366	Suspected[2]
71	1983	800	Suspected[2]
72	1983	2,400	No
73	1983	2,200	Suspected[2]
74	1986	400	Suspected[2]
79	1983	1,650	Suspected[2]
80	1986	314	No
81	1986	314	No
82	1986	314	No
83	1986	314	No
84	1986	314	No
85	1988	3,160	No
87	1988	38,882	No
88	1983	7,200	Assumed[3]
89	1984	4,830	Assumed[3]
90	1983	656	Suspected[2]
91	1984	8,065	Suspected[2]
92	1984	1,600	Suspected[2]
93	1984	2,936	Suspected[2]
94	1984	1,240	Assumed[3]

BUILDING NAME	YEAR CONSTRUCTED	SQUARE FOOTAGE	ACBM[1] ?
95	1985	2,000	Suspected[2]
96	----	432	Suspected[2]
98	1988	8,517	Suspected[2]
99	1989	11,412	Suspected[2]
100	1989	6,292	Suspected[2]
101	1986	1,815	Suspected[2]
102	1987	10,982	Suspected[2]
104	----	1,800	Suspected[2]
105	----	38,027	Suspected[2]
106	----	180	Suspected[2]
107	----	70	Suspected[2]
112	----	785	Suspected[2]
113	----	547	Suspected[2]
114	----	432	Suspected[2]
119	----	350	Suspected[2]
120	----	350	Suspected[2]

NOTES: (1) ACBM - Asbestos-containing building materials.

(2) Building is noted to contain "suspect" asbestos-containing building materials. Industrial hygiene building files lack building construction or asbestos survey information.

(3) Building is noted to contain "suspect" asbestos-containing flooring tile or sheet goods.

Appendix J

Lead Summary/Information

From: Christopher Ahlquist
To: Ransbottom, Robert
Date: 7/24/01 4:03PM
Subject: Building 85 Lead Concerns

Bob -

On July 17, 2001 I surveyed Building 85 for any existing lead hazards or concerns. At that time, the only materials identified as potentially containing lead were the existing paint coatings. None of the paint coatings were noted to be exhibiting significant damage. As long as the paint coatings remain intact and demolition activities do not involve direct disturbance by workers (scraping, sanding, grinding, torching, etc.), there would not exist a lead hazard. In addition, the recent construction date of the building would suggest that the paint coatings would likely lack lead or have relatively low concentrations of lead.

If specific paint coatings are to be disturbed by direct worker contact an evaluation of those coating for lead content can be accomplished.

Please call with any questions.

Respectfully,

Chris Ahlquist
Industrial Hygienist

CC: Jared Wills

Appendix K

Chemical Summary/Information

CHEMICAL SUMMARY INFORMATION
Appendix K

Since this building was never put into operation, chemical inventory information is neither available nor anticipated.

Appendix L

Noted Soil Sampling, Vicinity

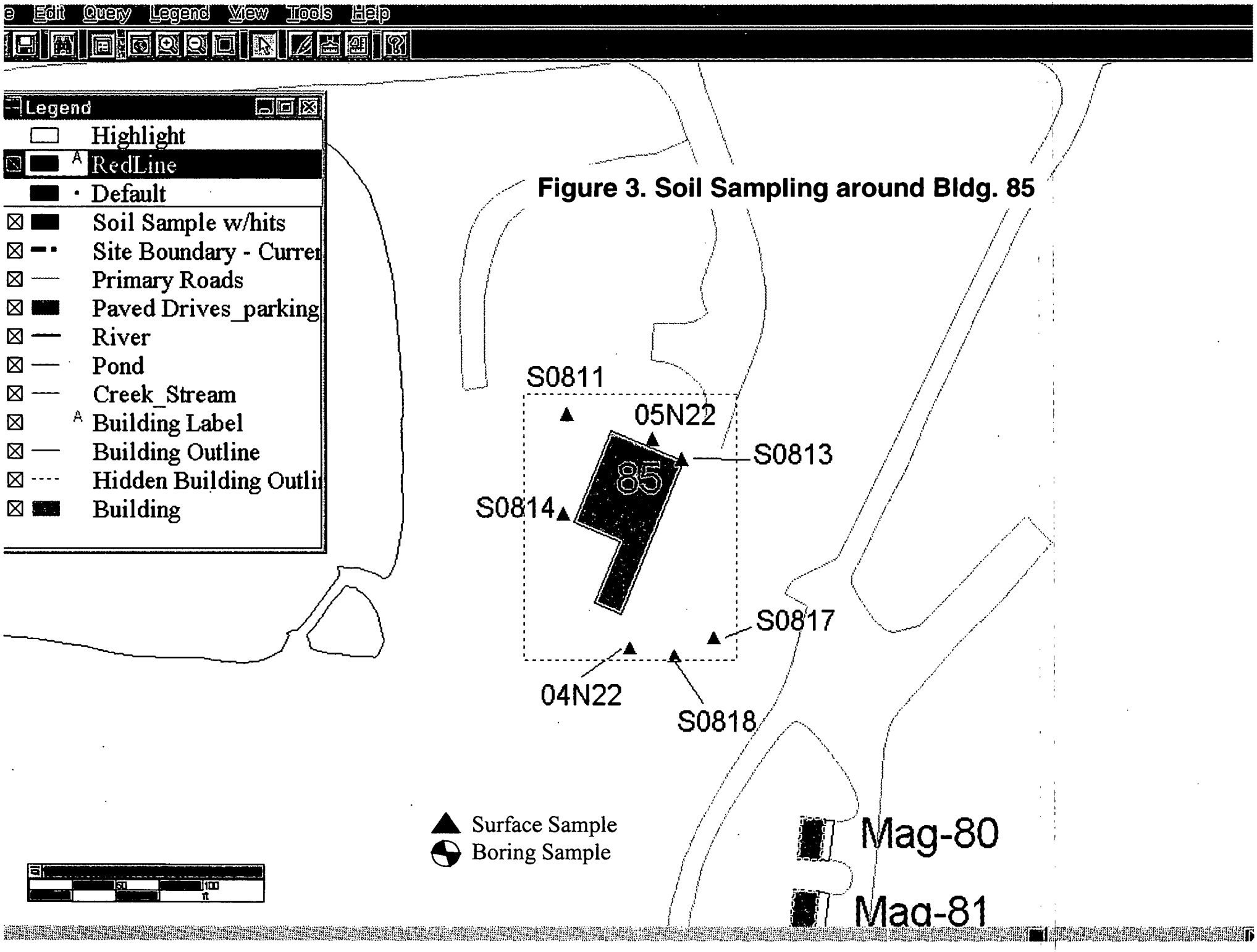

Figure 3. Soil Sampling around Bldg. 85

STATION	SMP_ID	PROJ_CODE	PAR_NAME	RESULTS	PAR_UNIT	DET_LIM	ERROR	DATE_COL
S0818	6481	RSS	Plutonium-238	0.04	PCI/G	0.01		08/01/1984
05N22	05N22	2680	Plutonium-238	20	PCI/G	20 (Note 1)		07/14/1994
S0817	6480	RSS	Plutonium-238	0.09	PCI/G	0.01		08/01/1984
04N22	04N22	2680	Plutonium-238	0	PCI/G	0		07/14/1994
S0814	6476	RSS	Plutonium-238	0.08	PCI/G	0.01		08/01/1984
S0813	6475	RSS	Plutonium-238	0.17	PCI/G	0.01		08/01/1984
S0811	6473	RSS	Plutonium-238	0.13	PCI/G	0.01		08/01/1984
04N22	04N22	2680	Thorium-232	0.9	PCI/G	0.9		07/14/1994
S0814	6476	RSS	Thorium-232	2	PCI/G	2		08/01/1984
S0811	6473	RSS	Thorium-232	2	PCI/G	2		08/01/1984
05N22	05N22	2680	Thorium-232	0.9	PCI/G	0.9		07/14/1994
S0817	6480	RSS	Thorium-232	2	PCI/G	2		08/01/1984
S0813	6475	RSS	Thorium-232	2	PCI/G	2		08/01/1984
S0818	6481	RSS	Thorium-232	2	PCI/G	2		08/01/1984
04N22	04N22	2680	Total Aromatic Hydrocarbons	71884	IC (Note 2)			07/14/1994
05N22	05N22	2680	Total Aromatic Hydrocarbons	503834	IC (Note 2)			07/14/1994
05N22	05N22	2680	Total Semivolatile Hydrocarbons	ND	IC (Note 2)			07/14/1994
04N22	04N22	2680	Total Semivolatile Hydrocarbons	ND	IC (Note 2)			07/14/1994
05N22	05N22	2680	Total C5 TO C11 Petroleum Hydrocarbons	952251	IC (Note 2)			07/14/1994
04N22	04N22	2680	Total C5 TO C11 Petroleum Hydrocarbons	107932	IC (Note 2)			07/14/1994
04N22	04N22	2680	Total Halogenated Hydrocarbons	ND	IC (Note 2)			07/14/1994
05N22	05N22	2680	Total Halogenated Hydrocarbons	ND	IC (Note 2)			07/14/1994

Note 1: Due to the result equaling the detection limit, this is essentially a non-detect (ND)
Note 2: IC = Ion Counts This data comes from the 1994 SAIC soil gas analysis study using the Petrix method.
These values are only relative to other analyses done within the study. They do not relate to any risk based guideline values.
Note: 3 ND=Non-Detect

comp_no	par_code	parameter name	comparison value	units
1	7440-41-7	Beryllium	7.00E-01	MG/KG
1	7440-43-9	Cadmium	5.00E+04	MG/KG
1	7440-47-3	Chromium	7.50E+03	MG/KG
1	121-82-4	RDX	2.70E+01	UG/KG
1	72-55-9	4,4'-DDE	9.00E+00	MG/KG
1	50-29-3	4,4'-DDT	9.00E+00	MG/KG
1	12672-29-6	Aroclor-1248	3.85E-01	MG/KG
1	11096-82-5	Aroclor-1260	3.85E-01	MG/KG
1	319-85-7	Beta-BHC	1.65E+00	MG/KG
1	60-57-1	Dieldrin	1.85E-01	MG/KG
1	56-55-3	Benzo(a)anthracene	4.10E+00	MG/KG
1	50-32-8	Benzo(a)pyrene	4.10E-01	MG/KG
1	205-99-2	Benzo(b)fluoranthene	4.10E+00	MG/KG
1	207-08-9	Benzo(k)fluoranthene	4.10E+01	MG/KG
1	117-81-7	Bis(2-ethylhexyl)phthalate	2.15E+02	MG/KG
1	218-01-9	Chrysene	4.10E+02	MG/KG
1	53-70-3	Dibenz(a,h)anthracene	4.10E-01	MG/KG
1	193-39-5	Indeno(1,2,3-cd)pyrene	4.10E+00	MG/KG
1	78-59-1	Isophorone	3.15E+03	MG/KG
1	86-30-6	N-Nitrosodiphenylamine	6.00E+02	MG/KG
1	87-86-5	Pentachlorophenol	2.50E+01	MG/KG
1	107-06-2	1,2-Dichloroethane	1.10E+01	MG/KG
1	71-43-2	Benzene	3.20E+01	MG/KG
1	75-27-4	Bromodichloromethane	4.80E+01	MG/KG
1	75-25-2	Bromoform	3.75E+02	MG/KG
1	56-23-5	Carbon Tetrachloride	1.20E+01	MG/KG
1	67-66-3	Chloroform	1.55E+01	MG/KG
1	124-48-1	Dibromochloromethane	3.55E+01	MG/KG
1	75-09-2	Dichloromethane	3.95E+02	MG/KG
1	79-01-6	Trichloroethene	1.25E+02	MG/KG
1	AC-227	Actinium-227	1.00E+00	PCI/G
1	14596-10-2	Americium-241	4.95E+00	PCI/G
1	13982-38-2	Bismuth-207	1.75E-01	PCI/G
1	BI-207	Bismuth-207	1.75E-01	PCI/G
1	10045-97-3	Cesium-137	4.60E-01	PCI/G
1	10198-40-0	Cobalt-60	1.00E-01	PCI/G
1	13981-16-3	Plutonium-238	5.50E+00	PCI/G
1	15117-48-3	Plutonium-239	5.50E+00	PCI/G
1	PU239/240	Plutonium-240	5.50E+00	PCI/G
1	13982-63-3	Radium-226	1.40E-01	PCI/G
1	10098-97-2	Strontium-90	3.00E+00	PCI/G
1	14274-82-9	Thorium-228	8.50E-01	PCI/G
1	14269-63-7	Thorium-230	4.40E+01	PCI/G
1	7440-29-1	Thorium-232	5.00E+01	PCI/G
1	10028-17-8	Tritium	2.35E+04	PCI/G
1	U-233	Uranium-233	3.70E+01	PCI/G
1	13966-29-5	Uranium-234	3.75E+01	PCI/G
1	15117-96-1	Uranium-235	3.35E+00	PCI/G
1	24678-82-8	Uranium-238	1.10E+01	PCI/G
2	7429-90-5	Aluminum	19000	MG/KG

comp_no	par_code	parameter name	comparison value	units
2	7440-38-2	Arsenic	8.6	MG/KG
2	7440-39-3	Barium	180	MG/KG
2	7440-69-9	Bismuth	ND	MG/KG
2	7440-41-7	Beryllium	1.3	MG/KG
2	7440-43-9	Cadmium	2.1	MG/KG
2	7440-70-2	Calcium	310000	MG/KG
2	7440-47-3	Chromium	20	MG/KG
2	7440-48-4	Cobalt	19	MG/KG
2	7440-50-8	Copper	26	MG/KG
2	57-12-5	Cyanide	ND	MG/KG
2	7439-89-6	Iron	35000	MG/KG
2	7439-92-1	Lead	48	MG/KG
2	7439-93-2	Lithium	26	MG/KG
2	7439-95-4	Magnesium	40000	MG/KG
2	7439-96-5	Manganese	1400	MG/KG
2	7439-97-6	Mercury	ND	MG/KG
2	7439-98-7	Molybdenum	27	MG/KG
2	7440-02-0	Nickel	32	MG/KG
2	7440-09-7	Potassium	1900	MG/KG
2	7440-22-4	Silver	1.7	MG/KG
2	7782-49-2	Selenium	ND	MG/KG
2	7440-23-5	Sodium	240	MG/KG
2	7440-28-0	Thallium	0.46	MG/KG
2	7440-31-5	Tin	20	MG/KG
2	7440-62-2	Vanadium	25	MG/KG
2	7440-66-6	Zinc	140	MG/KG
2	72-54-8	4,4'-DDD	4.2	MG/KG
2	72-55-9	4,4'-DDE	4.3	MG/KG
2	50-29-3	4,4'-DDT	13	MG/KG
2	309-00-2	Aldrin	ND	MG/KG
2	5103-71-9	Alpha Chlordane	ND	MG/KG
2	319-84-6	Alpha-BHC	ND	MG/KG
2	12672-29-6	Aroclor-1248	ND	MG/KG
2	11097-69-1	Aroclor-1254	58	MG/KG
2	11096-82-5	Aroclor-1260	ND	MG/KG
2	319-85-7	Beta-BHC	ND	MG/KG
2	60-57-1	Dieldrin	ND	MG/KG
2	959-98-8	Endosulfan I	ND	MG/KG
2	1031-07-8	Endosulfan Sulfate	ND	MG/KG
2	72-20-8	Endrin	ND	MG/KG
2	7421-93-4	Endrin Aldehyde	ND	MG/KG
2	53494-70-5	Endrin Ketone	ND	MG/KG
2	5103-74-2	Gamma Chlordane	ND	MG/KG
2	58-89-9	Gamma-BHC (Lindane)	ND	MG/KG
2	76-44-8	Heptachlor	ND	MG/KG
2	1024-57-3	Heptachlor Epoxide	ND	MG/KG
2	72-43-5	Methoxychlor	30	MG/KG
2	77-47-4	Hexachlorocyclopentadiene	ND	MG/KG
2	14596-10-2	Americium-241	ND	MG/KG
2	13982-38-2	Bismuth-207	ND	MG/KG

comp_no	par_code	parameter name	comparison value	units
2	BI-207	Bismuth-207	ND	MG/KG
2	BI-210M	Bismuth-210m	ND	MG/KG
2	10045-97-3	Cesium-137	0.42	PCI/G
2	13981-16-3	Plutonium-238	0.13	PCI/G
2	13966-00-2	Potassium-40	37	PCI/G
2	13982-63-3	Radium-226	2	PCI/G
2	10098-97-2	Strontium-90	0.72	PCI/G
2	14274-82-9	Thorium-228	1.5	PCI/G
2	14269-63-7	Thorium-230	1.9	PCI/G
2	7440-29-1	Thorium-232	1.4	PCI/G
2	10028-17-8	Tritium	1.6	PCI/G
2	13966-29-5	Uranium-234	1.1	PCI/G
2	15117-96-1	Uranium-235	0.11	PCI/G
2	24678-82-8	Uranium-238	1.2	PCI/G
3	7439-92-1	Lead	400	MG/KG
3	13982-63-3	Radium-226	5	PCI/G
3	13981-16-3	Plutonium-238	25	PCI/G
3	7440-29-1	Thorium-232	5	PCI/G
5	7440-36-0	Antimony	0.0006	MG/L
5	7440-38-2	Arsenic	0.05	MG/L
5	7440-39-3	Barium	2	MG/L
5	7440-41-7	Beryllium	0.004	MG/L
5	7440-43-9	Cadmium	0.005	MG/L
5	7440-47-3	Chromium	0.1	MG/L
5	7440-50-8	Copper	1.3	MG/L
5	57-12-5	Cyanide	0.2	MG/L
5	7439-92-1	Lead	0.015	MG/L
5	7439-97-6	Mercury	0.002	MG/L
5	7440-02-0	Nickel	0.1	MG/L
5	7782-49-2	Selenium	0.05	MG/L
5	7440-28-0	Thallium	0.002	MG/L
5	16984-48-8	Flouride	4	MG/L
5	NO3	Nitrate	10	MG/L
5	NO2	Nitrite	1	MG/L
5	57-74-9	Chlordane	0.002	MG/L
5	72-20-8	Endrin	0.002	MG/L
5	76-44-8	Heptachlor	0.0004	MG/L
5	1024-57-3	Heptachlor Epoxide	0.0002	MG/L
5	72-43-5	Methoxychlor	0.04	MG/L
5	8001-35-2	Toxaphene	0.003	MG/L
5	120-82-1	1,2,4-Trichlorobenzene	0.07	MG/L
5	95-95-4	2,4,5-Trichlorophenol	0.05	MG/L
5	50-32-8	Benzo(a)pyrene	0.002	MG/L
5	118-74-1	Hexachlorobenzene	0.001	MG/L
5	77-47-4	Hexachlorocyclopentadiene	0.05	MG/L
5	87-86-5	Pentachlorophenol	0.001	MG/L
5	71-55-6	1,1,1-Trichloroethane	0.2	MG/L
5	79-00-5	1,1,2-Trichloroethane	0.005	MG/L
5	75-35-4	1,1-Dichloroethene	0.007	MG/L
5	156-59-2	1,2-cis-Dichloroethene	0.07	MG/L

comp_no	par_code	parameter name	comparison value	units
5	107-06-2	1,2-Dichloroethane	0.005	MG/L
5	78-87-5	1,2-Dichloropropane	0.005	MG/L
5	106-46-7	1,4-Dichlorobenzene	0.075	MG/L
5	108-90-7	Chlorobenzene	0.1	MG/L
5	96-12-8	Dibromochloropropane	0.0002	MG/L
5	106-93-4	1,2-Dibromoethane	0.00005	MG/L
5	95-50-1	1,2-Dichlorobenzene	0.6	MG/L
5	75-09-2	Dichloromethane (Methylene Chloride)	0.005	MG/L
5	88-85-7	Dinoseb	0.007	MG/L
5	1746-01-6	Dioxin	0.00000003	MG/L
5	94-75-7	2,4-D	0.07	MG/L
5	156-60-5	1,2-trans-Dichloroethene	0.01	MG/L
5	71-43-2	Benzene	0.005	MG/L
5	75-27-4	Bromodichloromethane	0.008	MG/L
5	75-25-2	Bromoform	0.008	MG/L
5	56-23-5	Carbon Tetrachloride	0.005	MG/L
5	67-66-3	Chloroform	0.008	MG/L
5	100-41-4	Ethylbenzene	0.07	MG/L
5	58-89-9	Gamma-BHC (Lindane)	0.0002	MG/L
5	117-81-7	bis(2-ethylhexyl)phthalate	0.006	MG/L
5	100-42-5	Styrene	0.1	MG/L
5	127-18-4	Tetrachloroethene	0.005	MG/L
5	108-88-3	Toluene	1	MG/L
5	79-01-6	Trichloroethene	0.005	MG/L
5	75-01-4	Vinyl Chloride	0.002	MG/L
5	1330-20-7	Xylenes, Total	10	MG/L
5	AC-227	Actinium-227	0.4	PCI/L
5	14596-10-2	Americium-241	1.2	PCI/L
5	13982-38-2	Bismuth-207	1200	PCI/L
5	10045-97-3	Cesium-137	120	PCI/L
5	10198-40-0	Cobalt-60	400	PCI/L
5	13981-16-3	Plutonium-238	1.6	PCI/L
5	13982-63-3	Radium-226	4	PCI/L
5	10098-97-2	Strontium-90	40	PCI/L
5	14274-82-9	Thorium-228	16	PCI/L
5	14269-63-7	Thorium-230	12	PCI/L
5	7440-29-1	Thorium-232	2	PCI/L
5	10028-17-8	Tritium	20000	PCI/L
5	U-233	Uranium-233	20	PCI/L
5	13966-29-5	Uranium-234	20	PCI/L
5	15117-96-1	Uranium-235	24	PCI/L
5	24678-82-8	Uranium-238	24	PCI/L
6	7440-47-3	Chromium	1.10E+03	MG/KG
6	7440-36-0	Antimony	8.50E+01	MG/KG
6	7440-38-2	Arsenic	6.40E+01	MG/KG
6	7440-39-3	Barium	1.50E+04	MG/KG
6	7440-41-7	Beryllium	1.10E+03	MG/KG
6	7440-43-9	Cadmium	2.10E+02	MG/KG
6	57-12-5	Cyanide	4.30E+03	MG/KG
6	7439-96-5	Manganese	2.70E+04	MG/KG

comp_no	par_code	parameter name	comparison value	units
6	7439-97-6	Mercury	6.40E+01	MG/KG
6	7440-02-0	Nickel	4.30E+03	MG/KG
6	7440-22-4	Silver	1.10E+03	MG/KG
6	7440-62-2	Vanadium	1.50E+03	MG/KG
6	7440-66-6	Zinc	6.40E+04	MG/KG
6	2691-41-0	HMX	1.10E+04	UG/KG
6	121-82-4	RDX	6.40E+04	UG/KG
6	50-29-3	4,4'-DDT	1.10E+02	MG/KG
6	11097-69-1	Aroclor-1254	4.30E+00	MG/KG
6	60-57-1	Dieldrin	1.10E+01	MG/KG
6	106-44-5	4-Methylphenol	1.10E+03	MG/KG
6	120-12-7	Anthracene	6.40E+04	MG/KG
6	65-85-0	Benzoic Acid	8.50E+05	MG/KG
6	117-81-7	Bis(2-ethylhexyl)phthalate	4.30E+03	MG/KG
6	85-68-7	Butyl Benzyl Phthalate	4.30E+04	MG/KG
6	84-74-2	Di-n-butyl Phthalate	2.10E+04	MG/KG
6	117-84-0	Di-n-octyl Phthalate	4.30E+03	MG/KG
6	206-44-0	Fluoranthene	8.50E+03	MG/KG
6	78-59-1	Isophorone	4.30E+04	MG/KG
6	87-86-5	Pentachlorophenol	6.40E+03	MG/KG
6	108-95-2	Phenol	1.30E+05	MG/KG
6	129-00-0	Pyrene	6.40E+03	MG/KG
6	75-34-3	1,1-Dichloroethane	7.80E+00	MG/KG
6	156-60-5	1,2-trans-Dichloroethene	4.30E+03	MG/KG
6	108-10-1	2-Methyl-4-pentanone	7.00E+02	MG/KG
6	67-64-1	Acetone	2.10E+04	MG/KG
6	75-27-4	Bromodichloromethane	4.30E+03	MG/KG
6	75-25-2	Bromoform	4.30E+03	MG/KG
6	75-15-0	Carbon Disulfide	2.80E+02	MG/KG
6	56-23-5	Carbon Tetrachloride	1.50E+02	MG/KG
6	75-00-3	Chloroethane	1.60E+02	MG/KG
6	67-66-3	Chloroform	2.10E+03	MG/KG
6	124-48-1	Dibromochloromethane	4.30E+03	MG/KG
6	75-09-2	Dichloromethane	1.00E+03	MG/KG
6	100-41-4	Ethylbenzene	4.80E-01	MG/KG
6	110-54-3	Hexane	9.10E+01	MG/KG
6	127-18-4	Tetrachloroethene	2.10E+03	MG/KG
6	108-88-3	Toluene	2.50E+02	MG/KG
6	75-69-4	Trichlorofluoromethane	7.30E+02	MG/KG
6	1330-20-7	Xylenes, Total	4.30E+05	MG/KG
6	78-93-3	2-Butanone	9.30E+03	MG/KG

1 Value is 10-6 Risk-Based Guide Value
2 Value is OU9 Soil Background Value
3 Value is other criteria, I.e. 5 pCi/g for certain radionuclides
25 pCi/g plutonium
5 Value is MCL
6 Value is the Guide Value based on the hazard index

Appendix M

Occurrence Reports

From: Gary Weidenbach
To: Ransbottom, Robert
Date: 7/23/01 9:43AM
Subject: Building 85 ORPS

Bob,
Per your request I searched the Occurrence Reporting & Processing System database for occurrences related to Building 85.
My search resulted in finding no occurrences related to Building 85.

Gary Weidenbach
Facility & Building Manager

Appendix N

PRS Information

PRS INFORMATION
Appendix N

PRS 71 - Building 85 Waste Solvent Tank, was binned No Further Action (NFA) on October 19, 1995.

Appendix O

Work Plan

JOB SPECIFIC WORK PLAN

Title:	BUILDING 85 DEMOLITION		
Work Package No. (JSWP or MSR)	SM-01-02	If MSR Indicate Low, Moderate, or High Hazard Moderate	Rev. 0

Job Specific Work Plan

1. WORK SCOPE

1.1. Introduction

1.1.1. This Job Specific Work Package (JSWP) follows the outline of MD-10502, General Work Plan for Building Decontamination or Decontamination and Transition at the Mound Site, Miamisburg, Ohio. Included are a General Work Planning Checklist and a Job Safety & Hazard Analysis (JSHA). A Pre-Job Briefing Form (ML-9657) and the Project Manager's Authorization to Commence Work signature will be completed to document that the workers were briefed on the activities covered in this JSWP before work begins.

1.2. Description

1.2.1. The purpose of this effort is to demolish Building 85, remove the debris, and restore the area. This will be accomplished by confirming that all utilities have been isolated, removing miscellaneous equipment, establishing a construction zone, and using heavy duty equipment to demolish the building. After this the concrete slabs, foundations, and footers will be demolished/removed down to 3-feet below grade. The last step will be to remove the debris and grade/reclaim the area. Metal waste will be sent to Franklin Iron & Metal to be recycled. Concrete waste and miscellaneous construction debris will be placed in a roll-off for disposal at a landfill.

1.3. Site Information

1.3.1. Building 85, Powder Blending and Processing, is a one story, 3,160-square-foot reinforced concrete structure with a roof of reinforced concrete. Building 85 was constructed in 1989. The building was built as a Class I powder processing facility, with a high bay area, 3 ½ foot thick reinforced concrete walls and ceilings, and explosive-proof electrical system. The building has underground electrical service of 480V power and underground water and sanitary services. No underground storm drains are associated with the building. No fume hoods or fuel-burning units are within the building. Due to the intended processes, the building is equipped with a central air collection system, with a high-efficiency particulate air (HEPA) filter.

1.3.2. The building has never been used or occupied since it was constructed.

1.3.3. There are no D&D Potential Release Sites (PRSs) associated with this building. The only CERCLA PRS (PRS 71) is an underground tank that was never used. This PRS was binned as No Further Action (NFA) by the DOE/EPA. Building 85 will be demolished as a Non-CERCLA project.

2. DRAWINGS AND REFERENCES

2.1. Attachment A: Site layout
2.2. Attachment B: Utility arrangement for Building 85
2.3. MD-10502 Issue 5, General Work Plan for D&D
2.4. PP-1059A, Issue 4, "Integrated Work Control Program"
2.5. PP-1059B, Issue 5, "Analysis and Control of Hazards"
2.6. MD-50000, Issue 8, "Maintenance Work Order and Material Processing"
2.7. Attachment C - General Work Plan Checklist.
2.8. Attachment A - Job Safety Hazard Analysis (JSHA).

3. INITIAL CONDITIONS AND PREREQUISITES

3.1. LESSONS LEARNED

3.1.1. See Attachment E, for relevant Lessons Learned.

3.2. INDUSTRIAL SAFETY AND HEALTH REQUIREMENTS

3.2.1. A Job Specific Hazards Analysis (JSHA) is required per Core Team review. The construction zone, as defined in Attachment "A", identifies construction boundaries, evacuation routes, the take shelter area, and the assembly area. Debris will be cleared from the immediate demolition zone as required to provide safe equipment activity. The debris will be disposed of in accordance with Waste Management. Water shall be used as needed for dust control during activities that have the potential for generating dust.

3.2.2. Underground electrical utilities will be identified and field located by scanning the area prior to any activities beginning. Lock-out-tag-out procedures will be followed and electrical energy detection will be performed prior to any electrical demolition activities.

3.2.3. An excavation/soil disturbance permit will be required prior to demolition activities.

3.2.4. Monitoring for crystalline silica (concrete dust) will be performed as determined by previous monitoring results and IS&H staff. IS&H will be notified before the demolition of concrete begins.

3.2.5. Whole body vibration will be administratively controlled and by reviewing topic at Pre-job meeting.

3.2.6. A Hot Work Permit will be required if a torch is used for cutting.

3.2.7. Monitoring of noise levels will be performed as determined by previous monitoring results and the IS&H staff.

3.2.8. Due to the many high weeds in the area surrounding Building 85 and the likely presence of chiggers, the area will be mowed prior to work beginning. If necessary the area will be sprayed with insecticide and insect repellant will be made available to the workers.

4. RADIATION PROTECTION REQUIREMENTS

4.1. **The building was evaluated using the MARSSIM screening protocol. Based on process history and recent radiological surveys, minimal additional surveys were performed. No readings were above action levels. Therefore, no roll-off or debris pile surveys will be required during building demolition. During removal of the pad and foundation, minimal radiological surveys will be performed in association with the Excavation/Soil Disturbance Permit.**

5. Environmental Compliance Requirements

5.1. CERCLA

5.1.1. Building 85 demolition will be accomplished as non-CERCLA projects.

5.2. National Emissions Standards for Hazardous Air Pollutants (NESHAPs)

The offsite estimated effective dose equivalent (EDE) for the structure demolition of Building B was calculated to be 5.6E-04 mrem/year. Therefore, USEPA approval is not required for this project, as the dose does not exceed the 0.1 mrem/year threshold. Although the EDE is below the established threshold, areas of known contamination must be controlled during the demolition. Such techniques would be to encapsulate the known contamination to prevent it from becoming airborne, decontaminate

the areas, or physically remove the contamination. The calculated dose only applies to the structural demolition and any removal of the slab, foundation, or disturbance of the soil will require another NESHAP evaluation.

5.3. **Notifications**

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

5.3.1. Documentation requiring EPA Review prior to demolition.

Action Memorandum
Structure Specific Supplement or Work Plan
Hazard Analysis and Safety Plan

5.3.2. Documentation requiring EPA Review after demolition.

Verification Sampling Plan
Verification Results
On-Scene Coordinator (OSC) Report

5.4. **PRSs associated with B Building**

5.4.1. PRS 71 Building 85 Waste Solvent Shed was binned No Further Action (NFA) on October 19, 1995.

5.5. **A Notification of Demolition and Renovation form must be filed with the Regional Air Pollution** Control Agency (RAPCA) at least 10 business days before planned building demolition. Asbestos was abated under a separate notification through a sub-contractor.

5.6. **Restriction of emission of fugitive dust (OAC 3745-17-08)**

5.6.1. Reasonably available control measures must be employed to prevent fugitive dust from becoming airborne. Visual particulate emissions from any fugitive dust source shall not exceed 20% opacity as a three-minute average. Appropriate activities would include:

5.6.2. Water misting or other suitable dust suppression will be used to minimize fugitive dust from demolition activities.

5.6.3. Periodic application of water or other suitable dust suppression to adjacent roadways and parking lots will be used to prevent dust from becoming airborne.

5.6.4. Trucks hauling debris to the on-site spoils area should be covered while in transit.

5.6.5. If present, segregate any lead pipe conduits from concrete debris going to the spoils area in order to avoid producing lead dust and particulate.

5.7. **Clean Water Act**

5.7.1. Water source permitting requirements do not apply, as there is no significant new or increased discharge related to this project. All inlets to the sanitary and storm systems will be plugged to prevent accidental discharges to the wastewater treatment plant or the environment.

5.8. **Storm Water Pollution Prevention**

The site's National Pollutant Discharge Elimination System (NPDES) Permit No. 1IO00005*HD requires the use of control measures to ensure the quality of storm water leaving the site. These control measures and practices are outlined in the sites' Storm Water Pollution Prevention Plan OPA980099. Appropriate activities would include:

5.8.1. Redirect flow patterns around the project site to prevent storm water run-on.

5.8.2. Provide inlet protection to the storm sewer system by covering catch basins immediately adjacent to the project site and plugging roof drains at ground level until which time the underground pipes can be appropriately abandoned.

5.8.3. After completion of building demolition, a separate work plan will address slab removal and restoration of any disturbed area , which will be appropriately graded and compacted with chips and dust. A top layer of gravel will be applied to minimize the creation of fines in storm water effluent leaving the project area.

5.8.4. Exercise good housekeeping techniques by segregating materials in a timely manner, including the prompt disposal of wastes, and sweeping debris from the streets to prevent storm water pollution.

5.8.5. Water that has collected in an open excavation or in sumps, must be monitored prior to discharging to the sanitary or storm sewer systems. Contact Environmental Monitoring at extension 4188 for monitoring and review of these non-routine discharges.

5.9. **National Historic Preservation Act (NHPA)**

Building 85 is not listed as a historic structure with the Ohio Historic Preservation Office (OHPO). has determined Building B to be a historic building based upon its role in the polonium mission. Accordingly, the demolition of this structure was determined to be an adverse impact upon a historic structure. Consistent with guidelines established by the National Park Service, a documentation package was prepared to mitigate the adverse impact.

The mitigative documentation package has been completed and the demolition of this structure can proceed without the need for any additional evaluations of the activities to affect or impact cultural resources or historic property. However, if any items or artifacts are discovered as this project progresses, the Cultural Resource Representative will be notified at extension 3691. Work will be suspended until which time the items or artifacts have been recovered.

5.10. **Safe Drinking Water Act**

The potable water supply to Building 85 was turned-off and was capped to protect the integrity of the water supply to that portion of the plant site.

5.11. **Emergency Spill Response**

Building 85 has been disconnected from all utility services and the lines drained. There should be no regulated component that will be encountered. In the event of a major spill of any regulated substances, or the rupture of a non-isolated utility line (fire, domestic water, ethylene glycol) call 911 if using an on-site phone or 937-865-4040 if using a cell or other outside phone to report it. All spills must be contained onsite and should be prevented from entering the storm drains if possible. If spills enter the storm drains, all effluent must be retained onsite at the overflow pond.

6. CHEMICAL AND WASTE MANAGEMENT REQUIREMENTS

6.1. All waste will be managed in accordance with the Waste Management Plan for the Mound Exit Project, MD-10499. The Waste Coordinator (Waste Management POC) will be responsible for ensuring that the Project Team is working on the latest revision of the above document. All waste must be characterized for proper disposal. The Waste Coordinator will ensure that this is

accomplished and summarize disposal options for each waste stream in a Job Specific Waste Management Plan, which is included below.

Job Specific Waste Management Plan (Projected Volumes)	
25,000 Ft^3	Concrete to concrete crusher
9000 Ft^3	Scrap metal to Franklin Iron & Metal
3000 Ft^3	Non-concrete debris to construction debris landfill

6.2. **Due to the extensive amount of re-bar used to construct Building 85 it is not practical or cost effective to dispose of the concrete rubble on site utilizing the concrete "Crusher." The majority will be taken to a construction debris landfill.**

7. QUALITY ASSURANCE REQUIREMENTS

7.1. The Quality Level for this project is 3 thus a formal written Quality Plan is not required. The quality level determination worksheet is in the project file. Risk is expected to be mitigated on a Level III project without any planned or special effort beyond routine practices.

8. EMERGENCY PREPAREDNESS

8.1. **Site Notification Procedures**

8.1.1. Use **911** for all emergency services on-site. This is the first response for any emergency, spill, or release. If using a cell phone, dial **865-4040**. This number will ring into the plant 911 system.

8.1.2. Any injury, no matter how minor, shall be reported immediately to the Medical Department for evaluation and treatment. The injured employee shall report any injury to the supervisor in charge or designee.

8.1.3. Employees working will be notified of emergency or abnormal conditions by the plant paging system. Additionally, unique sheltering and evacuation signals are available should site-wide protective actions be necessary.

8.2. **Evacuation Route/Assembly Areas**

8.2.1. The assembly area is northeast of Building 85 on the road that accesses the site. See map per Attachment "A".

8.3. **Take Shelter Area**

8.3.1. The take shelter area is Building 19. See map per Attachment "A".

9. PRE-DEMOLITION SEQUENCE OF WORK

9.1. **SITE CHARACTERIZATION**

9.1.1. **Physical Characterization**

9.1.1.1. A structural engineering survey was performed and documented for Building 85 to meet the requirements of OSHA 29 CFR 1926.850(a). A walkdown of the structure was used to identify potential hazards as listed in 29 CFR 1926.850(e) through (i). It has been determined the building does not meet the criteria that cause the structure to be historically significant.

9.1.2. **Radiological Characterization**

9.1.2.1. Based on the radiological characterization summaries that have been performed for Building 85, annual surveys, and process history, there are no radiological concerns and a Radiation Work Permit will not be required.

9.1.3. **Chemical and Metals Characterization**

9.1.3.1. To the best of the Project Team's knowledge, all chemicals have been removed. All Freon has been previously removed and recycled.

9.1.4. **Asbestos Characterization**

9.1.4.1. No asbestos-containing material was identified in connection with Building 85.

9.2. **SAFE SHUTDOWN**

9.2.1. **Hazard Analysis**

9.2.1.1. The Project Engineer, Rad Engineer, Environmental Engineer, Project Superintendent, and representatives from OCAW, Industrial Safety and Hygiene, and Waste Management performed a safety walkdown to identify potential safety or environmental hazards. This was recorded in the Project Engineer's log. No unusual hazards were identified and the basic job steps were incorporated into the attached Job Safety & Health Analysis (JSHA) form.

9.2.2. **Property Management**

9.2.2.1. All items with DOE numbers will be retired. All equipment will be disposed of prior to demolition through Property Management.

9.2.3. **Space Configuration Management**

9.2.3.1. Not applicable. There are no personnel located at Building 85.

9.2.4. **Utility Isolation**

9.2.4.1. Building 85 is currently in Safe Shutdown. The building is unoccupied and the various utilities have been taken out of service. Utility isolation will take place prior to project execution/general sequence of work. See section 4.4

9.2.5. **Secure and Lock Equipment**

9.2.5.1. All equipment has been previously isolated and disconnected.

9.2.6. **Equipment and Waste Removal**

9.2.6.1. All remaining equipment, after Property Management review, will be considered excess and dispose of as waste. As much as practical, metal will be sent to Franklin Iron & Metal for smelting, and non-metal waste will be disposed of in a Koogler roll-off for disposal at a landfill.

9.2.7. **Chemical Round Up**

9.2.7.1. This has been completed.

9.3. **SITE PREPARATION**

9.3.1. **Site Access Control**

9.3.1.1. The demolition area will be identified utilizing the existing fence around the building, or at the discretion of the project superintendent, marked off with barricade tape/fencing. If fence posts need to be installed by hand using a post driver, the area will be first scanned after obtaining a completed Excavation/Soils Disturbance Permit.

9.3.2. **Clearing and Grubbing**

9.3.2.1. The weeds will be mowed in the area around the building and insecticide will be sprayed if appropriate. Coordinate with Industrial Hygiene and Environmental Compliance.

9.3.3. **Temporary Utilities**

9.3.3.1. The only temporary utility that may be required is electrical. A portable generator would be utilized.

9.3.4. **Temporary Facilities**

9.3.4.1. This project will use the existing Test Fire Valley project trailer and the new shower/restroom trailer. Also, a portable toilet has been located at the job site.

9.3.5. **Temporary Communications**

9.3.5.1. Temporary communications are required (cell phone, radios) due to the difficulty of hearing plant announcements and emergency notifications. At the job site, plant announcements and emergency notifications can be heard on the Plant Maintenance radio channel.

9.3.6. **Staging Areas**

9.3.6.1. The project site is of sufficient size to also be used as a staging area.

9.4. **UTILITIES ISOLATION**

9.4.1. Domestic water, fire water, electrical, and communications lines are all being disconnected under separate MSRs. These include:

- MSR 26690 for electrical isolation
- MSR 26573 for domestic and fire water isolation

9.4.2. An excavation/soil disturbance permit will be required prior to excavation activities.

9.4.3. The only above ground utilities in the immediate area are lights on seven poles, which will be removed, and lighting protection strung between two poles which also will be removed.

10. BUILDING DEMOLITION SEQUENCE OF WORK

10.1. A work zone boundary using the existing fence or with barricade tape or fencing as directed by the Project Superintendent. Proper signage will be placed at all access points to the site. This zone is not to be entered by anyone not directly involved with the demolition unless they have contacted the Project Superintendent first.

Do not begin any demolition activities until the following items are completed.

10.2. All new workers assigned to this project have receive a pre-job briefing prior to performing work and a walkdown of the project area.

10.3. The *Pre-Job Column of the General Work Plan Checklist* is complete.

10.4. The *Pre-Job Briefing Record* is complete and signed.

10.5. The *Job Specific Hazards Analysis (JSHA) has been reviewed*

NOTE: All workers have Stop Work Authority. Situations where stop work authority is to be exercised are:

- To stop unsafe work.
- To stop unauthorized work, for example, work outside the scope of this work package.

10.3. Confirm electric/communication has been disconnected to Building 85.

10.4. Confirm all utilities have been isolated and blanked-off.

10.5. Disconnect and remove seven (7) light poles from around Building 85. Excess the light fixtures and salvage the poles if practical.

10.6. Disconnect and remove two (2) lightning protection poles. Excess lightning protection hardware and salvage the poles if practical.

10.7. Confirm all Freon has been previously removed and recycled from HVAC units inside and outside of the building.

10.8. Remove all PCB ballasts from all fluorescent light fixtures and dispose through Waste Management.

10.9. Confirm sample results, and pump water from cistern/sump and dispose of per Waste Management's directions.

10.10. Remove ventilation equipment from roof utilizing Shear/Grapple and dispose in a roll-off.

10.11. Remove metal siding and dispose in a roll-off.

10.12. Begin concrete demolition of Building 85 by using a hoe ram along with shear and grapple as required. Working the top of the building and exterior walls demolish and size for disposal to the concrete crusher. Re-bar will require sizing with the shear.

10.13. As the interior walls become accessible, continue process as identified in item #12.

10.14. Continue until the building is completely razed. Note: The progressions of the building demolition will ultimately be determined in the field.

10.15. Survey concrete/debris as required by the Radiological Point of Contact.

10.16. Begin process of waste/rubble removal and transfer to the appropriate waste stream per Waste Management

10.17. Remove all waste and prepare the area for demolition of the concrete slab, footer, and foundation.

11. SLAB and BELOW GRADE REMOVAL

11.3. Break apart the building slab using a Hoe-Ram, and perform radiological screening. Based on radiological screening results, transport to Mound's spoils area or rail spur as directed by Waste Management.

11.4. Break apart the building footer and foundation down to a depth of 3 feet below grade and performs radiological screening. Based on radiological screening results, transport to Mound's spoils area or rail spur as directed by Waste Management.

11.4.1. Not applicable for the removal of process systems.

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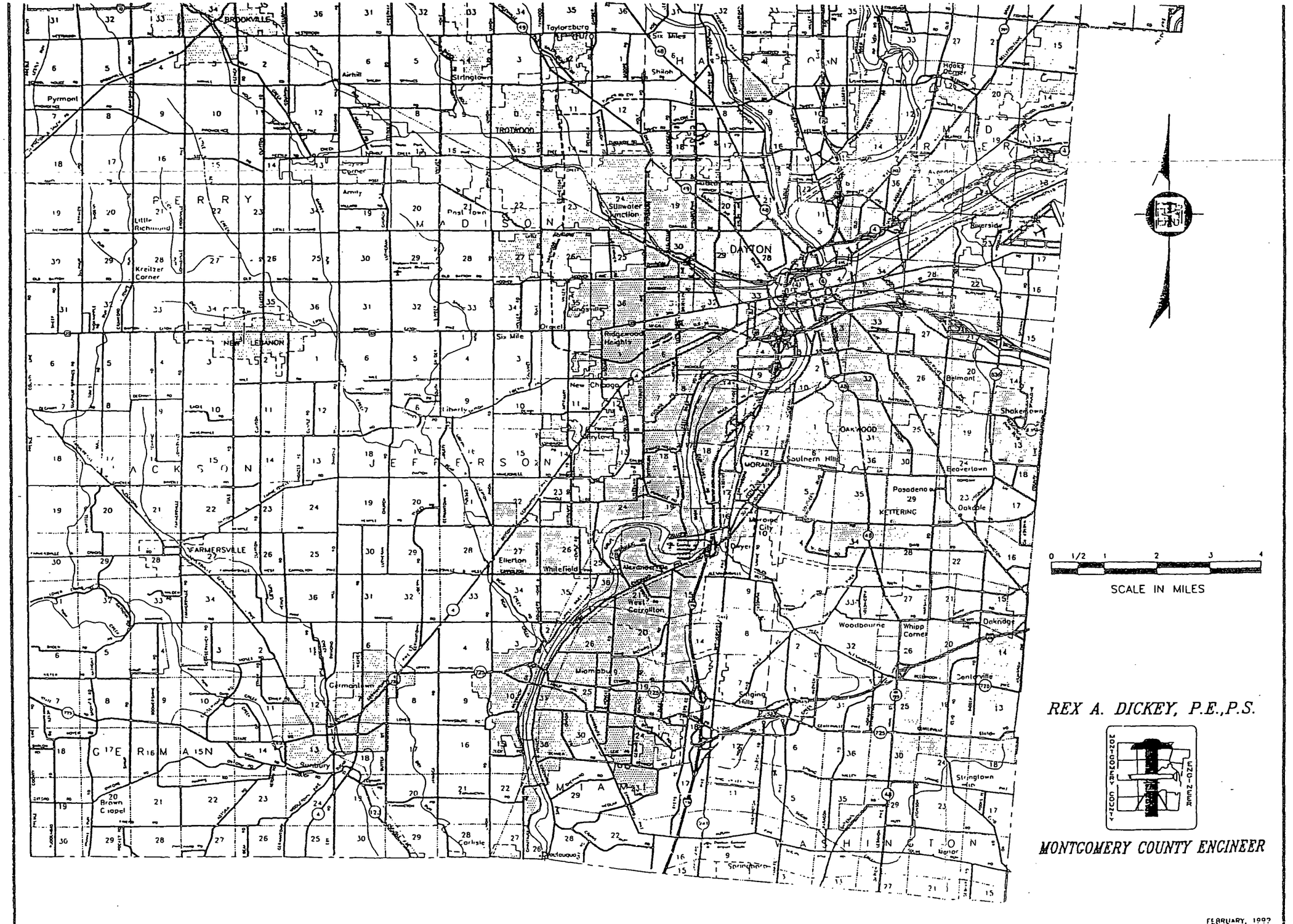
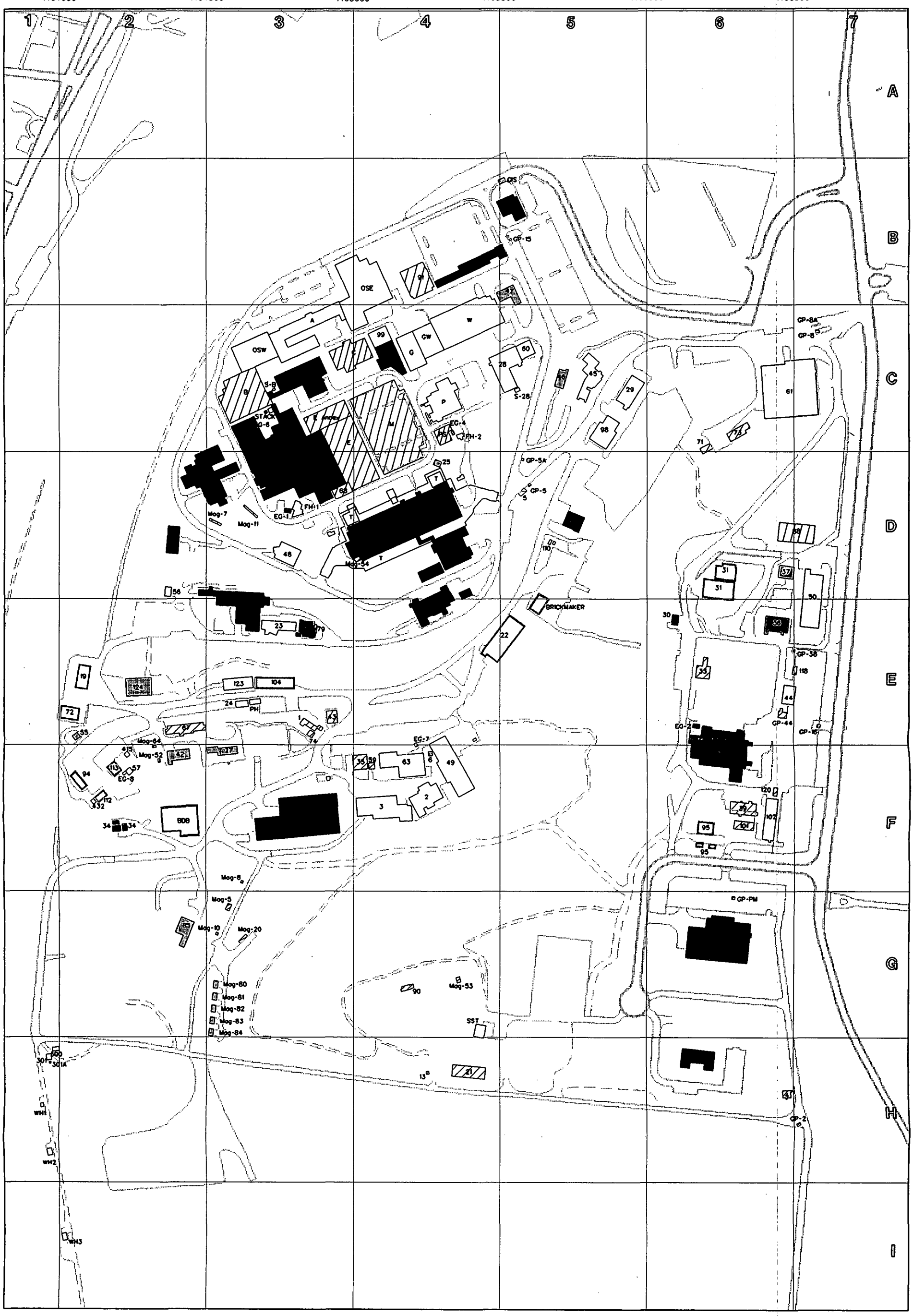


REX A. DICKEY, P.E.,P.S.

MONTGOMERY COUNTY ENGINEER

FEBRUARY, 1992



Legend

- To Be Demolished (CERCLA)
- To Be Demolished (Construction)
- Personal Property
- Hatch: Removed/Demolished
- Transfer (Waiting Evaluation)
- Transfer (NFA)
- Transfer (FA)
- Transfer (RA)

TN
GN
MN

0 100 200 400 600 800
Scale in Feet

ISS	DATE	REVISION	BY	CHKR	ENG	M
	07/26/01	UPDATED TO CURRENT SITE CONDITIONS	SR			

DRAWING NUMBER

MOUND
Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE																					

PART CLASSIFICATION

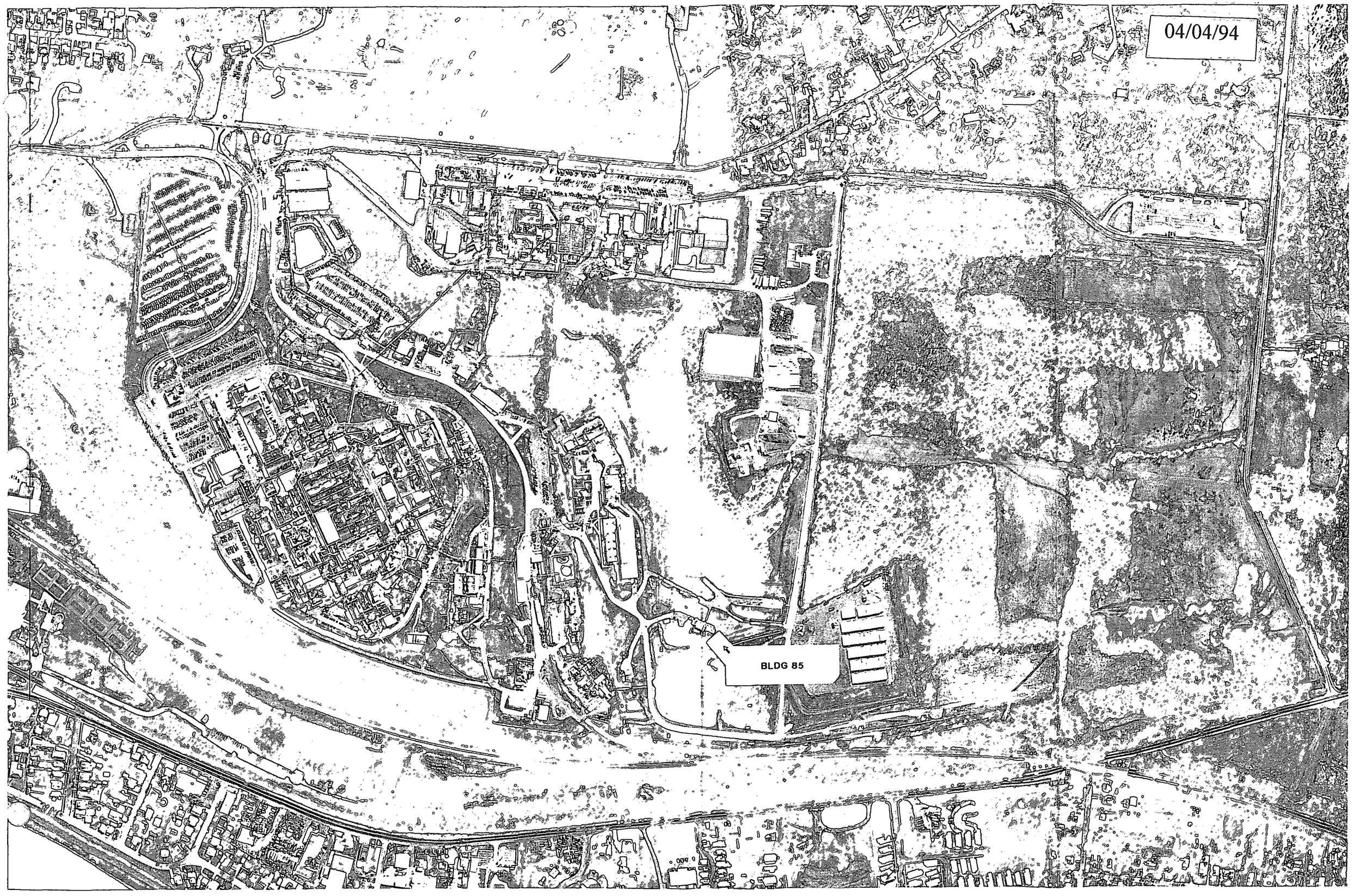
(U) TITLE CLASSIFICATION
Building Disposition
Core Team
07/26/01

DRAWING CLASSIFICATION	SIZE	DRAWING NUMBER	JOB NUMBER
UNCLASSIFIED	D	bldg_disp.dgn	

DWG TYPE	STE	PRMG	CAGEC	SCALE	SHEET 1 OF 1
STATUS		ORIGIN	MSTATION / J		

A B C D

06/83
BLDG 85 NOT YET BUILT


04/04/94
BLDG 85