

SM/PP Hill Project

FINAL CLOSE OUT REPORT

Demolition of Building GP-44



MOUND PLANT
Miamisburg, Ohio

JUNE 30, 1998



Babcock & Wilcox of Ohio, Inc.



Department of Energy



BWX Technologies, Inc.

Babcock & Wilcox, a McDermott company

Babcock & Wilcox of Ohio, Inc.

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

ESC-173/98

July 8, 1998

98-TC/7-08

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

ATTENTION: Dewain Eckman

SUBJECT: Contract No. DE-AC24-97OH20044
**FINAL CLOSE OUT REPORTS ON DEMOLITION OF BUILDING
33, GUARD POST 44, AND MAGAZINE 53**

REFERENCE: Statement of Work Requirement C 7.1 -- Regulator Reports

Dear Mr. Brown:

Attached are the Final Reports on the demolition of Building 33, Guard Post 44, and Magazine 53. These reports provide summary information on the successful demolition of these buildings and complete these efforts.

The release of these documents to USEPA, OEPA, and ODH has been authorized by Paul Lucas of MEMP.

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POST 44, AND MAGAZINE 53

Please advise if additional copies are required for distribution within DOE. If you require further information, please contact Dave Rakel at extension 4203.

Sincerely,



Linda R. Bauer, Ph.D.
Department Manager, Environmental Safeguards & Compliance

LRB/nmg

Enclosures as stated

cc: T. Fischer, USEPA, (1) w/attachment
J. Raines, TechLaw, (1) w/attachment
B. Nickel, OEPA, (1) w/attachment
K. Fox, OEPA, (1) w/attachment
R. Beaumier, OEPA, (1) w/attachment
R. Vandegrift, ODH, (1) w/attachment
T. Tracy, DOE/HQ, (1) w/attachment
O. Vincent, DOE/MEMP, (1) w/attachment
S. Cheng, DOE/MEMP, (2) w/attachment
R. Bauer, B&W, (1) w/attachment
G. Maul, B&W, (1) w/attachment
F. Spittler, B&W, (1) w/attachment
Public Reading Room, (5) w/attachment
DCC, w/o attachment

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Executive Summary

This is the final report documenting the demolition of Building GP-44 as initially defined in the Building Data Package (BDP) introduced in February 1998. Demolition was completed in April 1998. This document serves as the record of the demolition action and reports final costs, schedule, waste disposition information, method of demolition, and any unusual findings. Photographs and references to other related documents are also included.

Constructed in 1964, Building GP-44 served as a security entrance to the SM/PP area until 1988. Since 1988, the building has been used for non-hazardous storage such as for tools and clothing. It was a one story, 365 square foot concrete slab on grade structure with an asphalt, built-up membrane roof. The SM/PP Hill Project at Mound Plant demolished the building and concrete pad per the Work Plan, dated February 1998, Revision 3/12/98.

All preparation and demolition activities were performed in accordance with this Work Plan to include structure characterization, safe shutdown, utilities isolation, site access control, interior decontamination and demolition requirements (to include contaminant abatement), structure demolition and debris removal. Approximately 140 cubic yards of construction debris (non-radioactively contaminated) were removed from the Building GP-44 demolition site, as noted in Table 2.

The Building GP-44 superstructure, slab, and foundation were successfully demolished.

It is recommended to the Department of Energy that the scope of work relating to this structure be considered complete.



Figure 1. Mound Plant Site Location

Mound Plant
Building GP-44
Old Guard House at SM/PP

Release Block F

- On the map below:
- Building number and location shown in black
 - Surrounding buildings shown in green
 - Fencing shown in red
 - Elevation contours shown in brown

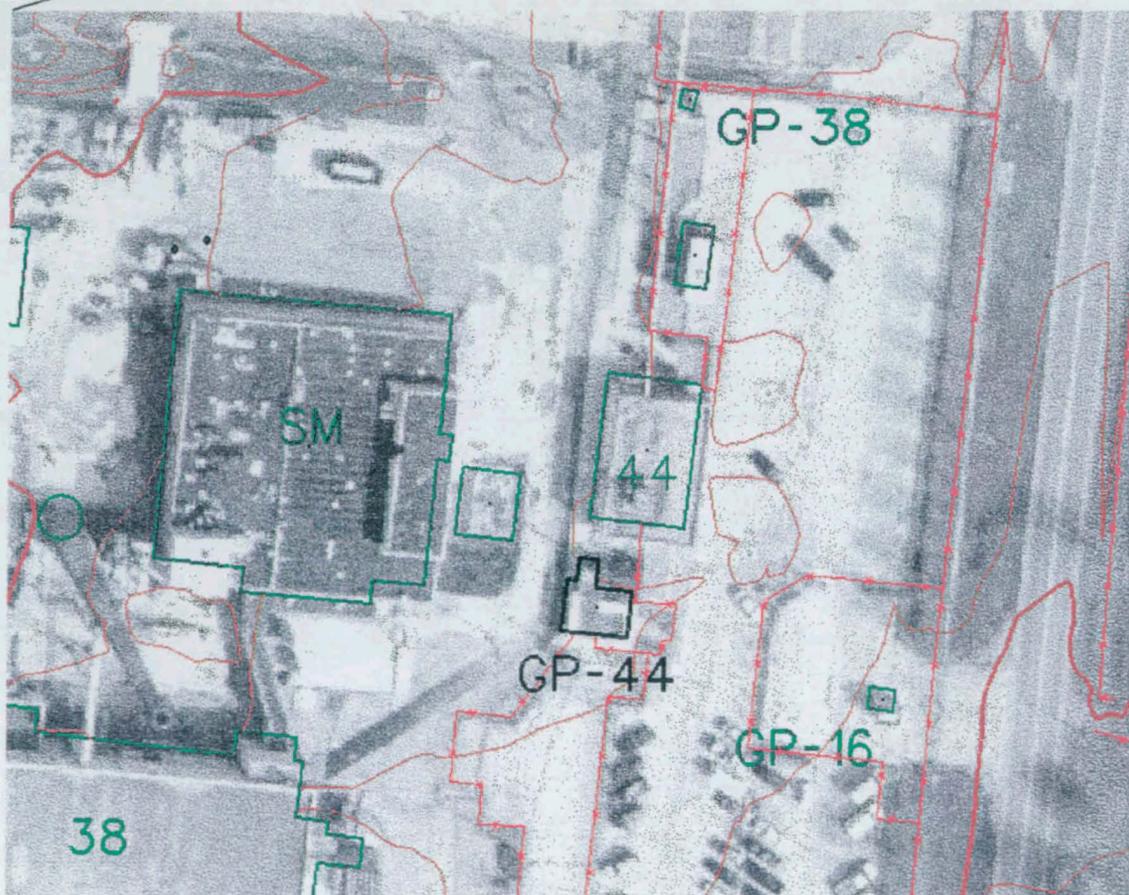
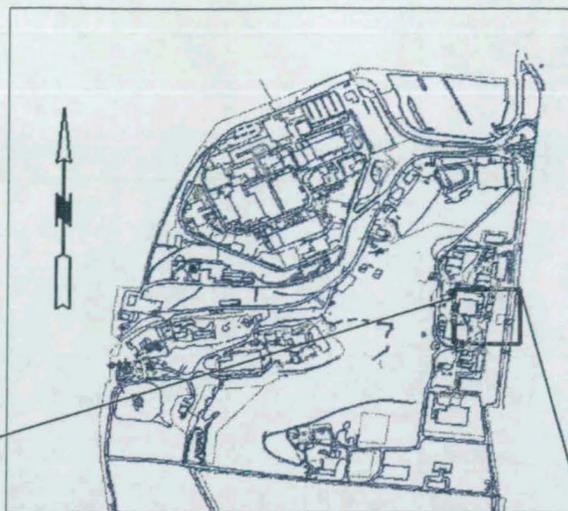


Figure 2. Demolition Site Location

1.0 SUMMARY OF EVENTS

1.1 Objectives of Demolition Activities

Building GP-44 was removed in support of the Mound Plant Exit Project. The removal was accomplished as a non-CERCLA demolition as noted by the Building Data Package (BDP) and detailed in the *General Work Plan for Building GP-44 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio, February 1998, Revision 3/12/98*. This Work Plan is also found as Appendix L of the Building Data Package. The Work Plan gives detail of the planning and conduct of demolition operations. Note Figures 1 and 2 for Mound Plant and Building GP-44 locations.

1.2 Personnel Organization For The Demolition

See Table 1, Personnel Organization for the Demolition.

Table 1. Personnel Organization for the Demolition

Agencies or Parties Involved	Contact	Description of Participation
US EPA HSRM-6J 77 W. Jackson Chicago, IL 60604	Tim Fischer 312-886-5787	Federal agency responsible for site oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911	Brian Nickel 937-285-6468	State agency responsible for site oversight.
DOE/MEMP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066	James Johnson 937-865-5234	DOE Project Manager responsible for project oversight and success.
B&W Of Ohio SM/PP Hill Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Felix Spittler 937-865-3981	Provided the DOE Project Manager with technical assistance, administrative support, sampling, photo and site documentation, site safety, and report preparation.
B&W of Ohio General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Rich Higgins 937-865-4400	Provided the personnel and equipment necessary for the demolition

1.3 Chronological Narrative of Key Demolition Activities

- 09 DEC 97 Started Safe Shutdown activities for Building GP-44.
- 09 MAR 98 Started utilities isolation.
- 12 MAR 98 Completed utilities isolation.
- 16 MAR 98 Completed Safe Shutdown activities.
- 23 MAR 98 Started building demolition activities.
- 24 MAR 98 Completed building demolition activities.
- 07 APR 98 Started foundation/soil removal.
- 16 APR 98 Completed backfill of demolition area.

1.4 Listing of Waste Materials Generated and Resources Committed

Table 2 shows the materials and their disposition. Table 3 includes the demolition total cost summary.

2.0 EFFECTIVENESS OF THE DEMOLITION

Building GP-44 was successfully demolished per the Work Plan. All field work and laboratory analysis was accomplished by Babcock & Wilcox of Ohio personnel.

Table 2. Materials and Disposition

Material	Quantity	Method	Location
Construction Debris (concrete/masonry)	40 cubic yards	to be crushed later and recycled	Mound site: to be used as fill material.
Construction Debris (metals)	40 cubic yards	recycled	Franklin Metals
Construction Debris (mix/miscellaneous)	60 cubic yards	land fill	Koogler/ Stoney Hollow

Table 3. Demolition Project Total Cost Summary

Extramural Costs:	Cost (\$)
Total Supplies and Equipment Costs	2,000.00
Total Technical Assistance Team (TAT) Costs	0
Total Laboratory Costs	0
<i>Total OTHER Program Costs</i>	0
EXTRAMURAL SUBTOTAL	2,000.00
Intramural Costs:	Cost (\$)
DOE Direct Costs	0
DOE Indirect Costs	66,000.00
INTRAMURAL SUBTOTAL	66,000.00
Total Cost and Ceiling:	Cost (\$)
TOTAL PROJECT COST	68,000.00
PROJECT CEILING	101,000.00

3.0 RECOMMENDATION

The Building GP-44 superstructure, slab, and foundation have been demolished and debris removed in accordance with documentation provided to the Mound 2000 Core Team. (See references below.) It is recommended to the Department of Energy that the scope of work relating to this building be considered complete.

4.0 REFERENCE LIST OF SUPPLEMENTARY DOCUMENTS

Contact Mark Becker, Babcock & Wilcox of Ohio, Public Relations, at (937) 865-4450 to request access to these supplemental documents.

- *Building Data Package (BDP) for Building GP-44*
- *General Work Plan for Building GP-44 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio*
- Job Safety & Health Analysis

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION



03/23/98 GP44 demolition *980644



03/23/98 GP44 demolition *980655



05/11/98 GP44 restoration *980998

