

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Ohio

Site Summary Level: **Miamisburg Environmental Management Project**

Project **OH-MB-04 / Main Hill Rad**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0575**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The decommissioning efforts will extend to the year 2003 and include:

- * R-Building: Demolition and disposal of 55,003 sf. building contaminated with a multitude of radiological isotopes; Building is separated into a radiologically controlled (hot) side and non-rad (cold) side.
- * SW- Building: Demolition and disposal of 43,066 sf. building; primarily contaminated with Tritium.
- * Building 58: Demolition and disposal of 6,610 sf building. Houses the filter banks for SW and is contaminated with Tritium.
- * H-Building: Decontamination of 17,334 sf. building for industrial reuse. Building contains a "Hot" Laundry area.
- * B Stack: Demolition and disposal of stack potentially contaminated with tritium . Waste to be sorted and dispositioned at the central waste processing facility.
- * C Building: Demolition and disposal of 13,403 sf. building. The demolition facilitates demolition of SW & R buildings. The debris will primarily disposed at a non-rad permitted State facility.
- * E and E Annex: Demolition and disposal of 47,755 sf. building. The demolition facilitates demolition of SW & R buildings. The debris will primarily disposed at a non-rad permitted State facility.
- * Any contaminated soils associated with the above demolished buildings will be removed as part of the project.

Technical Approach: The decommissioning of the Main Hill Rad buildings is on the critical path for mission completion.

- * R and SW buildings will be transferred to this project from the Main Hill Tritium Project at the completion of safe shutdown.
- * Demolition of buildings R, SW, E, and E annex will be performed after each are decontaminated to the extent required to minimize waste generation and prevent contamination spread during demolition.
- * After the demolition of the contaminated buildings, contaminated soil will be removed to the central waste processing facility and the area backfilled to grade.
- * Building 58: Demolition will be performed in parallel with SW building, due to its proximity and functional use.
- * H building will be decontaminated to industrial use release criteria.
- * E and E annex and C-building are minimally contaminated, but will be demolished in order to facilitate the R and SW buildings demolition.
- * B Stack: Demolition of stack will occur after the demolition of SW building . Waste to be sorted and dispositioned at the central waste processing facility.

NOTE:

Early demolition of R, SW, 58, and B Stack are constrained by the completion of tritium operations and safe shutdown of tritium support systems within R and SW buildings. Support systems include the Effluent Recovery System, Tritium Effluent Reduction Facility, and misc. safety systems (e.g. monitors, emergency paging systems, etc.).

Technologically, this project potentially needs:

OH-M002 - method for decontaminating and disposing of tritiated pump oils

Dataset Name: **FY 1999 Planning Data**

Page 1 of 10

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Ohio**

Site Summary Level: **Miamisburg Environmental Management Project**

Project **OH-MB-04 / Main Hill Rad**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0575**

Project Description Narratives

OH-M004 - technology that will characterize building surfaces and materials and provide real-time results

OH-M005 - fixing removable tritium contamination in place on interior surfaces of process piping during removal or size reduction

OH-M009 - a method of removing tritium from soil to cleanup levels associated with free release

OH-M011 - safe and cost effective method to decontaminate large volumes of tritium contaminated equipment and piping

OH-M012 - method to control or eliminate off-gassing from tritium process piping

Project Status in FY 2006:

All activities are scheduled to be completed in FY 2004.

Post-2006 Project Scope:

There is no identified work scope post FY 2006.

Project End State

Buildings will be decommissioned by decontamination and/or demolition.

The property will be suitable for release to non-DOE industrial reuse criteria.

Cost Baseline Comments:

This project includes the cost, scope and schedule from the validated baseline dated December 18, 1998 as detailed in the 21 volumes of the Exit Plan. The basis of estimate for the Standard Timberline Assemblies document utilized productivity factors from Richardson or Means Building Construction data. Bottoms up cost estimates were prepared for all activities planned for the project. Baseline documentation in the Exit Plan details all assumptions considered for each project.

Safety & Health Hazards:

The new contractor, Babcock & Wilcox of Ohio, Inc. is conducting an integrated safety review of all projects and work activities to identify and evaluate environmental, safety and health hazards. Typical hazards at the Mound site are chemical, biological, physical, radiological and electrical. Hazard analyses are performed for all new projects and work activities. The analyses are documented utilizing several different formats such as job safety and health analysis (JSHA), health and safety plans (HASPs), and other traditional DOE documents such as the Safety Analysis Report (SAR) and Auditable Safety Analysis (ASA). Additionally, hazard abatement inspections, self assessment audits, and project manager surveillances are conducted to identify hazardous conditions or hazardous acts as well as procedure non-compliance. Identified deficiencies are entered into a site wide database and tracked to closure. In the case of facility deficiencies such as exposed wiring a risk assessment code is assigned which requires the contractor to correct the hazard immediately or within a specified period of time.

Safety & Health Work Performance:

The resources necessary to accomplish the work safely are provided through the approved authorization basis for the project or work activities. Safety documentation that is part of the authorization basis will include the written E,S&H program requirements and procedures, health and safety plans, safety analysis reports, technical safety requirements, limiting conditions of operations documents and other as appropriate. Additionally, each project has a designated matrixed safety and health professional who will ensure the incorporation of requirements which address the following areas:

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 2 of 10

Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Ohio

Site Summary Level: **Miamisburg Environmental Management Project**

Project **OH-MB-04 / Main Hill Rad**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0575**

Project Description Narratives

industrial and construction safety, industrial hygiene, transportation safety, emergency management, fire protection, radiological protection, and occupational medicine. The cost for the matrixed safety and health professional will be applied to the project or projects in which the person is assigned to. Core groups of subject matter experts such as the fire department, occupational medicine, emergency management and training will be available to address specific or unique concerns. This cost for the core group of subject matter experts will be spread across each project.

PBS Comments:

SEE NARRATIVES ABOVE.

Baseline Validation Narrative:

Operations are conducted under a validated baseline for cost, scope and schedule. Validation was conducted by the Department of Energy and Army Corps of Engineers and documented in 21 volumes entitled Exit Plan.

General PBS Information

Project Validated? Yes **Date Validated:** 12/18/1998

Has Headquarters reviewed and approved project? Yes

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/8/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	N	N

Project Identification Information

DOE Project Manager: Frank Schmaltz

DOE Project Manager Phone Number: 937-865-3620

DOE Project Manager Fax Number: 937-865-4219

DOE Project Manager e-mail address: Frank.Schmaltz@ohio.doe.gov

Is this a High Visibility Project (Y/N):

Planning Section

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Page 3 of 10

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Ohio**

Print Date: **3/9/2000**

Site Summary Level: **Miamisburg Environmental Management Project**

HQ ID: **0575**

Project **OH-MB-04 / Main Hill Rad**

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	26,020	0	26,020	663	663	3,073	3,073	3,344	3,648	1,475	3,448	8,216	2,153	0	0	
PBS Baseline (constant 1999 dollars)	24,458	0	24,458	663	663	3,073	3,073	3,344	3,552	1,398	3,180	7,371	1,877	0	0	
PBS EM Baseline (current year dollars)	26,020	0	26,020	663	663	3,073	3,073	3,344	3,648	1,475	3,448	8,216	2,153	0	0	
PBS EM Baseline (constant 1999 dollars)	24,458	0	24,458	663	663	3,073	3,073	3,344	3,552	1,398	3,180	7,371	1,877	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.80%	2.80%	2.90%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Baseline Summary Report

Data Source: **EM CDB**
 Operations/Field Office: **Ohio**
 Site Summary Level: **Miamisburg Environmental Management Project**
 Project **OH-MB-04 / Main Hill Rad**

Report Number: **GEN-01b**
 Print Date: **3/9/2000**
 HQ ID: **0575**

2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 10/1/2001

Current Projected End Date of Project: 4/8/2004

Explanation of Project Completion Date Difference (if applicable):

The current completion date is scheduled for FY 2004 based upon the rebaseline which was validated in December, 1998.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	21,016	Actual 1997 Cost:	663	Actual 1998 Cost:	3,073
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	17,280	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			467
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	17,747				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
--	-------------------------	----------------------------------

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+): 2,993 \$2,993k due to rebaseline in Dec. 1998 and allocated costs previously in MB-10.

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 20,740

Additional Amount to Reconcile (+): -18 (\$18K) due to FY 1997 Actual Costs escalation error on the IDMS reconciliation tab.

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **20,722**

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Ohio**

Site Summary Level: **Miamisburg Environmental Management Project**

Project **OH-MB-04 / Main Hill Rad**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0575**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ANNUAL SCHEDULE DELIVERY	OHMB-04-05		3/31/1999	3/31/1999			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-04-06		9/30/2000	9/30/2000			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-04-07		9/30/2001	9/30/2001			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-04-08		9/30/2002	9/30/2002			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-04-09		9/30/2003	9/30/2003			Y				
BLDG BS-STACK OSC REPORT	OHMB-04-03		8/14/2003	9/30/2004			Y				
BLDG EA-ANALYTICAL LABS & ANNEX OSC REPORT	OHMB-04-01		5/1/2001	9/30/2001			Y				
BLDG R-LABS & OFFICES OSC REPORT	OHMB-04-02		3/2/2004	9/30/2004			Y				
BLDG SW/58 SPECIAL WORKS OSC REPORT	OHMB-04-04		2/10/2004	9/30/2004			Y				
Project Start			10/1/1996								
Project Complete			4/8/2004								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ANNUAL SCHEDULE DELIVERY	OHMB-04-05										
ANNUAL SCHEDULE DELIVERY	OHMB-04-06										
ANNUAL SCHEDULE DELIVERY	OHMB-04-07										
ANNUAL SCHEDULE DELIVERY	OHMB-04-08										
ANNUAL SCHEDULE DELIVERY	OHMB-04-09										

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Ohio**

Print Date: **3/9/2000**

Site Summary Level: **Miamisburg Environmental Management Project**

HQ ID: **0575**

Project **OH-MB-04 / Main Hill Rad**

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
BLDG BS-STACK OSC REPORT	OHMB-04-03										
BLDG EA-ANALYTICAL LABS & ANNEX OSC REPORT	OHMB-04-01										
BLDG R-LABS & OFFICES OSC REPORT	OHMB-04-02										
BLDG SW/58 SPECIAL WORKS OSC REPORT	OHMB-04-04										
Project Start				Y							
Project Complete					Y	Y					

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
Fac.														
Decom.- Assess.	NF	7.00	0.00	7.00				1.00		1.00		1.00	4.00	
Fac.														
Decom.- Cleanup	NF	7.00	0.00	7.00				1.00		1.00			2.00	3.00
Fac.														
Deact. During Per.	NF	3.00	0.00	3.00						1.00			2.00	
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
Fac.														
Decom.- Assess.	NF													

Dataset Name: **FY 1999 Planning Data**

Page 7 of 10

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Ohio**

Print Date: **3/9/2000**

Site Summary Level: **Miamisburg Environmental Management Project**

HQ ID: **0575**

Project **OH-MB-04 / Main Hill Rad**

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
Fac.													
Decom- Cleanup	NF	3.00											
Fac.													
Deact. During Per.	NF												

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
Fac.										
Decom.- Assess.	NF									7.00
Fac.										
Decom- Cleanup	NF									7.00
Fac.										
Deact. During Per.	NF							1.00		4.00

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
MEMP	0401		C-Bldg. (comp. in FY 1999; IPABS will not take date)	Buildings & Equipment/Administrative Building	Non-Nuclear Facility	1998	1998	5/15/1998	1998			1998	1998	5/15/1998	1995	Y		N
MEMP	0402		H-Bldg. \	Buildings & Equipment/Administrative Building	Radiological Facility	2003	2003		2003	2003		2003	2003		1995	N		Y
MEMP	0403		SW-Bldg. \ SW-BUILDING (Semi-Works)	Buildings & Equipment/Laboratory	Nuclear Facility, Category 2	2003	2002		2002	2003		2004	2002		1995	N		Y
MEMP	0404		R-Bldg. \ R-BUILDING	Buildings &	Nuclear	2002	2002		2002	2003		2004	2002		1995	N		Y

Dataset Name: **FY 1999 Planning Data**

Page 8 of 10

Date of Dataset: **9/20/1999**

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Ohio**

Print Date: **3/9/2000**

Site Summary Level: **Miamisburg Environmental Management Project**

HQ ID: **0575**

Project **OH-MB-04 / Main Hill Rad**

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			(Research)	Equipment\Laboratory	Facility, Category 2													
MEMP	0405		E&Eannex \ E & E Annex BUILDING(Environmental Lab)	Buildings & Equipment\Laboratory	Radiological Facility	2000	2000		2000	2000		2000	2001		1995	N		Y
MEMP	0406		B Stack \ B Stack (Biological)	Buildings & Equipment\Physical Plant	Radiological Facility	2003	2003		2003	2003		2003	2003		1995	N		Y
MEMP	0407		Bldg. 58 \ BUILDING #58 (Filter Banks)	Buildings & Equipment\Laboratory	Nuclear Facility, Category 2	2003	2004		2002	2003		2004	2004		1995	N		Y

Facility Deactivation

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
MEMP	0403		SW-Bldg. \ SW-BUILDING (Semi-Works)	Buildings & Equipment\Laboratory	Nuclear Facility, Category 2	2003	2002		2002	2003		2004	2002		1995	N		Y
MEMP	0404		R-Bldg. \ R-BUILDING (Research)	Buildings & Equipment\Laboratory	Nuclear Facility, Category 2	2002	2002		2002	2003		2004	2002		1995	N		Y
MEMP	0407		Bldg. 58 \ BUILDING #58 (Filter Banks)	Buildings & Equipment\Laboratory	Nuclear Facility, Category 2	2003	2004		2002	2003		2004	2004		1995	N		Y

Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Ohio**

Print Date: **3/9/2000**

Site Summary Level: **Miamisburg Environmental Management Project**

HQ ID: **0575**

Project **OH-MB-04 / Main Hill Rad**

Facility Deactivation

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
MEMP	0401		C-Bldg. (comp. in FY 1999; IPABS will not take date)	Buildings & Equipment\Administrative Building	Non-Nuclear Facility	1998	1998	5/15/1998	1998			1998	1998	5/15/1998	1995	Y		N
MEMP	0402		H-Bldg. \	Buildings & Equipment\Administrative Building	Radiological Facility	2003	2003		2003	2003		2003	2003		1995	N		Y
MEMP	0405		E&Eannex \ E & E Annex BUILDING(Environmental Lab)	Buildings & Equipment\Laboratory	Radiological Facility	2000	2000		2000	2000		2000	2001		1995	N		Y
MEMP	0406		B Stack \ B Stack (Biological)	Buildings & Equipment\Physical Plant	Radiological Facility	2003	2003		2003	2003		2003	2003		1995	N		Y