

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## **General Project Information**

### **Project Description Narratives**

#### **Purpose, Scope, and Technical Approach:**

Purpose: As the effort to stabilize material progresses, and as buildings are no longer required to process and store SNM, it is necessary to deactivate and decommission these nuclear and support facilities to further minimize risk, reduce mortgage costs and to fulfill the site closure mission.

Buildings 776/777 performed manufacturing and assembly of special order and war reserve weapons, disassembly, processing and recovery from site returns, waste operations including size reduction and incineration, and several developmental programs including non destructive testing, joining, and coatings. These processes produced significant amounts of plutonium contaminated lubricants, shavings, and secondary residues that were temporarily stored and periodically recycled back into the plutonium manufacturing process. Included in the 776/777 Cluster Closure Project are buildings 776, 777, 701, 702, 703, 712, 713, 781, and tanks 199, 200, 201, 202, 203, 207, 244, and 245. When all nuclear production was halted in 1989, Special Nuclear Materials (SNM) were left in place without any handling or repackaging pending resumption of nuclear operations. The Rocky Flats production mission was formally terminated in 1992 such that routine production operations were no longer planned. Efforts have been undertaken in several buildings to begin processing, stabilizing and repackaging the SNM to make it safe to store, handle and ship.

Scope: The Building 776/777 facility consists of two buildings with a second floor totaling 230,820 square feet. The major waste/materials that exist are organic and inorganic plutonium residues, special nuclear material, plutonium buttons, enriched uranium, metal, oxides, wastes and low level liquids. This project ensures that buildings and cluster facilities are maintained in a safe, secure, and environmentally compliant status. Compliance to the authorization basis is demonstrated through the performance of applicable surveillance's and compensatory measures. Appropriate controls are maintained, and verification inspections are performed to demonstrate compliance to applicable DOE, State, and Federal regulatory requirements. Maintenance and calibration activities are performed to a level that ensures Vital Safety System operability. Building availability will be maintained at the level necessary to support SNM, Waste Management, and Deactivation operations.

Deactivation and Decommissioning will be required to remediate approximately 120 metric tons of stored waste, 30,000 metric tons of structural material inventory, 4000 metric tons of equipment, and 13,000 gallons of chemicals.

Closure includes the tasks associated with the proper sampling, analyzing, and review of data necessary to ensure the regulatory requirements are met for closure. The end state of this element is achieved when final approval is granted from the regulators.

Remediate/Contain 776/777 Cluster High Risk IHSS consists of planning and authorization, source removal and containment, and obtaining the final approval for IHSS remediation. The end state of this element will be achieved when final approval is granted from the regulators.

This Cluster Closure Project includes 3 High Risk IHSSs - 3 Under Building Contamination's. The original process waste lines (30,000 lineal feet) transported a wide variety of aqueous wastes. Leaks from flanges, seals, valve vaults, and piping spilled contamination into the soils. Contaminated soil will be treated by thermal absorption to remove contaminants and be disposed of off site. IHSS 118.1 is an area of known subsurface soil contamination resulting from leaks associated with and underground storage tank containing carbon tetrachloride. The remediation will include

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Dataset Name: **FY 1999 Planning Data**

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

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## Project Description Narratives

extraction of those solvents.

Technical Approach: The technical strategy for completing the work scope contained within this PBD is to run one work shift beginning in FY00 and two shifts beginning in FY01 and continuing through FY03. A third shift will be worked for maintenance and surveillances that would normally preclude normal operations. A first line supervisor ratio to hourly is 15 to 1.

### Project Status in FY 2006:

This project will be completed.

### Post-2006 Project Scope:

No activities are currently scheduled to occur after 2006 for this project.

### Project End State

The end state of this element will be achieved when the Building 776/777 Cluster has been demolished to slab on grade and placed into a configuration that minimizes the movement of contaminants and is then covered by a monitored cap.

### Cost Baseline Comments:

Cost estimates are based on assumptions and data developed by the technical groups that have responsibility for managing the work. To the extent practical, all cost estimates are Activity-Based Costs (ABC) and tied directly to a defined and detailed work scope. The estimates are developed at the activity level and are further divided into line items. Line items represent individual resource contributions to activities and are the lowest level of input to the planning system. Once the cost estimate is developed, each activity is evaluated for cost, technical and schedule risk and the appropriate contingency is determined. Detailed estimates and the basis of estimates (BOEs) for the 2006 Closure Plan are available at the Site.

### Safety & Health Hazards:

The principle hazards in the Building 776/777 Cluster Closure Project are radiological, chemical, explosions, and other standard industrial hazards commonly found in Pu Buildings at RFETS. Most of these hazards will exist throughout the project and are related to characterization, hazardous material removal, deactivation, decommissioning, remediation, and demolition. There are two radiological "infinity" rooms in the facility; the Advanced Size Reduction Facility and the Size Reduction Vault. These hazards will be analyzed and categorized in accordance with the RFETS Safety and Health Program infrastructure policies, manuals, and procedures.

An reconnaissance level characterization has been performed for the Building 776/777 Cluster. Complete detailed walkdowns of each building SET was done. The personnel conducting walkdowns in each building identified the following:

- The equipment,
- GBs Gloveboxes and hoods,
- Tanks and their respective sizes,
- Capital equipment,

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Dataset Name: **FY 1999 Planning Data**

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

Page 2 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

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## Project Description Narratives

- Classified matter,
- Contamination areas and contaminant levels,
- Locations of chemicals,
- Utility and process service connections including piping, ventilation, and electrical; alarms, and
- Documentation regarding the building construction materials.

A reconnaissance level characterization report (RLCR) has been issued for the Building 776/777 Cluster. The RLCR is required by RFCA prior to decommissioning buildings at RFETS. The purpose of the RLCR is to establish a preliminary estimate of the type of contamination or hazards present in the Building 776/777 Cluster. The RLCR identifies the location and extent of radiological and Be contamination and waste chemicals, asbestos, PCBs and heavy metals throughout the Building 776/777 Cluster.

### Safety & Health Work Performance:

This project will be completed within the RFETS Safety and Health Program and within the controls and authorization basis documents defined above to ensure the safety and health of the worker, public and the environment. RFETS has implemented an integrated safety management system consisting of the following elements: radiological safety, criticality safety, emergency management, fire safety, industrial hygiene, nuclear safety, occupational medicine, occupational safety, safeguards and security, safety integration, performance oversight, and standards management. RFETS provides site wide infrastructure programs for each functional area to establish consistent safety standards and support for this project. Safety and health success results from the efficient and effective implementation of these programs. This project is responsible for ensuring that the necessary elements of the safety and health programs are incorporated into the specific project plans and implementing documents, and that an appropriate Readiness Determination and Safety Evaluation Screen (SES)/Unreviewed Safety Question Determination (USQD) have been performed. Intergrated safety management is integrated through the Integrated Work Control Program (IWCP). All work will be planned, engineered, and worked according to the controls outlined in the IWCP.

Section 4.1.6, the "WAD Safety Plan" carries the work to be performed and how safety is applied. This is presented in its entirety.

### PBS Comments:

For simplicity of presentation, and due to the total annual funding allocation for the site, the appropriate planning activities for deactivation and D & D is generally displayed at a summary level. When funding levels are determined, and specific annual plans are prepared, it may be necessary to adjust the scopes and budgets for planning the physical activities. However, it should be noted that RFCA and safety concerns dictate that from six months to a year, it is required to prepare, obtain regulatory/public review, etc, prior to beginning physical D & D. The waste volumes listed herein include newly generated waste from deactivation, D & D, and IHSS remediation activities. The volumes do not include wastes routinely generated or wastes from landlord activities which are all contained in Project 2.

### Baseline Validation Narrative:

Although the 2006 Closure Plan has not been officially validated, it has undergone a high level review by Rocky Flats Field Office (RFFO) and Headquarter personnel. Current independent validation efforts include the following: 1) RFFO has contracted an independent firm to perform a baseline confidence review of the 2006 Closure Plan by the end of FY99, and 2) the Office of Field Management (FM) has contracted a big-five accounting firm to validate the 2006 Closure Plan.

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Dataset Name: **FY 1999 Planning Data**

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

Page 3 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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Site Summary Level: **Rocky Flats Environmental Technology Site**

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## Project Description Narratives

In addition to the 2006 Closure Plan validation efforts, results/recommendations from several previous baseline validation efforts were used in the development of the 2006 Closure Plan. These validations included: 1) The U.S. Army Corps of Engineers (USACE) performed a validation of the Rocky Flats Ten Year Plan in FY97/FY98, 2) Kaiser-Hill contracted Price Waterhouse Coopers, LLP to conduct an independent validation effort of the 2010 Closure Project Baseline that concluded in May of FY99, and 3) Kaiser-Hill engaged Arthur Andersen, LLP to conduct a schedule and cost risk review of the 2010 Closure Project Baseline.

## General PBS Information

**Project Validated?** **Date Validated:**  
**Has Headquarters reviewed and approved project?** No  
**Date Project was Added:** 12/1/1997  
**Baseline Submission Date:**  
**FEDPLAN Project?** Yes

<b>Drivers:</b>	<b>CERCLA</b>	<b>RCRA</b>	<b>DNFSB</b>	<b>AEA</b>	<b>UMTRCA</b>	<b>State</b>	<b>DOE Orders</b>	<b>Other</b>
	Y	Y	Y	N	N	Y	Y	Y

## Project Identification Information

**DOE Project Manager:** Jessie Roberson  
**DOE Project Manager Phone Number:** 303-966-2263  
**DOE Project Manager Fax Number:** 303-966-4775  
**DOE Project Manager e-mail address:** ten.year.plan@rfets.gov  
**Is this a High Visibility Project (Y/N):**

## Planning Section

### Baseline Costs (in thousands of dollars)

	<b>1997-2006</b>	<b>2007-2070</b>	<b>1997-2070</b>	<b>1997</b>	<b>Actual</b>	<b>1998</b>	<b>Actual</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
	Total	Total	Total		1997		1998								

Dataset Name: **FY 1999 Planning Data**

Page 4 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## 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)	269,885	0	269,885	11,907	11,907	12,568	12,568	16,361	32,552	44,692	50,168	62,288	32,773	6,576	0	
PBS Baseline (constant 1999 dollars)	254,135	0	254,135	11,907	11,907	12,568	12,568	16,361	31,696	42,622	46,860	56,984	29,366	5,771	0	
PBS EM Baseline (current year dollars)	269,885	0	269,885	11,907	11,907	12,568	12,568	16,361	32,552	44,692	50,168	62,288	32,773	6,576	0	
PBS EM Baseline (constant 1999 dollars)	254,135	0	254,135	11,907	11,907	12,568	12,568	16,361	31,696	42,622	46,860	56,984	29,366	5,771	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%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

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Project **RF019 / Building 776/777 Cluster Closure Project**

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:** 9/1/2007

**Current Projected End Date of Project:** 8/11/2005

### **Explanation of Project Completion Date Difference (if applicable):**

Scope Deletion

Efficiencies

New Scope

New Landlord scope includes services such as Nuclear Safety, Radiological Engineering, Laundry, Facility Management Overhead Support, etc. that were transferred into this PBS from other PBSs.

Cost Growth

The decommissioning cost estimate has been revised based on a new parametric model. The parametric model is based on actual glovebox removal data in B779 and provides decommissioning estimates for gloveboxes, tanks and rooms.

Science & Technology

Other

The scope of work and end state conditions for the 2006 Plan are similar to the current 2010 Baseline, with a four-year acceleration and a reduction in cost being the two most significant differences. The bottom-up estimate for the 2006 Plan is a \$1.65 billion improvement over the comparable activity-based bottoms-up detail estimate for 2010.

To close the Site four years earlier than the current 2010 Baseline requires a strategically different approach. The two key principles followed in preparing the 2006 Baseline were: 1) safely reducing the urgent risks first, and 2) performing work in a sequence that reduces or eliminates operations, maintenance and security costs (often referred to as - mortgage costs) as early as possible. Key to the 2006 Baseline approach is early closure of the secured Protected Area. Closing the Protected Area as soon as possible means that the high security and maintenance costs for this area can be redeployed to accelerate other closure activities. In addition, D&D and SNM risk reduction activities will be performed simultaneously rather than sequentially, supporting both the risk reduction and mortgage reduction principles. The D&D of non- and lower-contaminated facilities and most environmental remediation work will be deferred until later in the project to allow resources to be focused in the areas that result in the greatest reduction in risks and mortgage costs.

Dataset Name: **FY 1999 Planning Data**

Page 6 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

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Project **RF019 / Building 776/777 Cluster Closure Project**

## Project Reconciliation

### Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	209,023	Actual 1997 Cost:	11,907	Actual 1998 Cost:	12,568
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	184,548	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			4,983
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	189,531				

### Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
<b>Cost Change Due to Scope Deletions (-):</b>		
<b>Cost Reductions Due to Efficiencies (-):</b>	3,004	Rebaselining due to acceleration. Efficiencies dollar estimate is not of audit quality.
<b>Cost Associated with New Scope (+):</b>		
<b>Cost Growth Associated with Scope Previously Reported (+):</b>		
<b>Cost Reductions Due to Science &amp; Technology Efficiencies (-):</b>		
<b>Subtotal:</b>	186,527	
<b>Additional Amount to Reconcile (+):</b>	43,133	
<b>Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):</b>	<b>229,660</b>	

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
B776 DOP CDPHE Approved	RF-0175		6/30/1999		6/30/1999						
FY01-T2 Close MAA in B776/777 by 9/30/01	RF-0311		6/30/2000		6/30/2000						
FY00-T5 Drain Mixed Residue Tanks Complete	RF-0320		9/28/2000		9/28/2000						
Complete B776/777 Demolition	RF-0414		3/31/2004		3/31/2004						
B776/777 Cluster Complete IHSS/UBC Remediation	RF-0435		8/11/2005		8/11/2005						
Complete PBD 019 - B776/777 Cluster Closure Proj	RF-OTHE-19		8/11/2005		8/11/2005					Y	

Dataset Name: **FY 1999 Planning Data**

Page 7 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Deactivate Vaults	0253		12/30/1999	12/30/1999							
PBD 019 Project Start			10/1/1997								

## 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
B776 DOP CDPHE Approved	RF-0175	Y									Rocky Flats Field Office ( RFFOs / CPMs ) Milestones
FY01-T2 Close MAA in B776/777 by 9/30/01	RF-0311	Y									Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY00-T5 Drain Mixed Residue Tanks Complete	RF-0320	Y									Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
Complete B776/777 Demolition	RF-0414	Y	Y				1	1	1		Kaiser Hill Internal ( KHIs ) Milestones
B776/777 Cluster Complete IHSS/UBC Remediation	RF-0435	Y	Y				1	1	1		Kaiser Hill Internal ( KHIs ) Milestones
Complete PBD 019 - B776/777 Cluster Closure Proj	RF-OTHE-19				Y	Y					Kaiser Hill Internal ( KHIs ) Milestones
Deactivate Vaults	0253		Y				1	1	1	Y	B776/777 COMPL CLOSE OF 1 REM. VAULT (12/30/99)
PBD 019 Project Start				Y							PBD 019 Project Start

## 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
<b>RS</b>														
Assess.	NR	15.00	0.00	15.00										15.00

Dataset Name: **FY 1999 Planning Data**

Page 8 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## 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
<b>RS</b>														
Cleanup	NR	15.00	0.00	15.00										4.00
<b>Fac.</b>														
Decom.- Assess.	NF	21.00	0.00	21.00					20.00					1.00
<b>Fac.</b>														
Decom- Cleanup	NF	21.00	0.00	21.00										20.00
<b>Tech.</b>														
Deployed	Ntd	11.00	0.00	11.00					3.00	8.00				
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	
<b>RS</b>														
Assess.	NR													
<b>RS</b>														
Cleanup	NR	4.00	11.00											
<b>Fac.</b>														
Decom.- Assess.	NF	1.00												
<b>Fac.</b>														
Decom- Cleanup	NF	20.00	1.00											
<b>Tech.</b>														
Deployed	Ntd													
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				

Dataset Name: **FY 1999 Planning Data**

Page 9 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

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				
<b>RS</b>														
Assess.	NR									15.00				
<b>RS</b>														
Cleanup	NR									15.00				
<b>Fac.</b>														
Decom.- Assess.	NF									21.00				
<b>Fac.</b>														
Decom- Cleanup	NF									21.00				
<b>Tech.</b>														
Deployed	Ntd								3.00	11.00				
<b>Release Sites</b>														
Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3042		IHSS 118.1 \ Solvent Spills W B730	/	2003			2005				N		
RFTS	3043		IHSS 118.2 \ Solvent Spills N B707	/	2003			2004				Y	Approved	
RFTS	3061		IHSS 131 \ Rad Site 700 Area No.1	/	2003			2005				N		
RFTS	3092		IHSS 144 (N) \ Sewer Line Overflow	/	2003			2004				Y	Approved	
RFTS	3093		IHSS 144 (S) \ Sewer Line Overflow	/	2003			2004				Y	Approved	
RFTS	3108		IHSS 150.2 (S) \ Rad Site W B 771/776	/	2003			2005				N		
RFTS	3110		IHSS 150.4 \ Rad Site NW B750	/	2003			2004				Y	Approved	
RFTS	3112		IHSS 150.7 \ Rad Site S B776	/	2003			2005				N		
RFTS	3239		PAC 700-1100 \ French Drain North of Bldg 776/777	/	2003			2005				N		
RFTS	3255		PAC 700-1116 \ Transformer Leak South of	/	2003			2005				N	Approved	

Dataset Name: **FY 1999 Planning Data**

Page 10 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

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Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

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Project **RF019 / Building 776/777 Cluster Closure Project**

## Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			Bldg 776											
RFTS	3308		PAC T-10 \	/	2003			2005				N		
RFTS	3391		UBC B701 \	/	2003			2005				N		
RFTS	3397		UBC B776 \	/	2003			2005				N		
RFTS	3398		UBC B777 \	/	2003			2005				N		
RFTS	3399		UBC B778 \	/	2003			2005				N		

## 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
RFTS	0055		713A \ VALVE PIT (SE of 713) \			1999		4/1/1999				2004				N		
RFTS	0060		771-TUN \ 771-776 TUNNEL \			1999		4/1/1999				2004				N		
RFTS	0062		776A \ AIR COMPRESSOR (N \ of 776, near door 17T)			1999		4/1/1999				2004				N		
RFTS	0307		890 \ PUMP HOUSE \			2004						2005				N		
RFTS	0506		701 \ WASTE MGMT R&D \			1999		4/1/1999				2004				N		
RFTS	0507		702 \ PUMP HOUSE \ (COOLING TOWER 712)			1999		4/1/1999				2004				N		
RFTS	0508		703 \ PUMP HOUSE \ (COOLING TOWER 713)			1999		4/1/1999				2004				N		
RFTS	0509		712 \ COOLING TOWER (776, \ 777, 779A)			1999		4/1/1999				2004				N		
RFTS	0510		713 \ COOLING TOWER (776, \ 777, 779A)			1999		4/1/1999				2004				N		
RFTS	0511		776 \ MFG BUILDING \			1999		4/1/1999				2004				N		

Dataset Name: **FY 1999 Planning Data**

Page 11 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## 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
RFTS	0512		777 \ ASSEMBLY BUILDING \			1999		4/1/1999				2004				N		
RFTS	0513		781 \ AIR COMPRESSOR \ BLDG (777)			1999		4/1/1999				2004				N		
RFTS	0515		Tank 199 \ LIQUID NITROGEN STORAGE TANK (N of 777)			1999		4/1/1999				2004				N		
RFTS	0516		Tank 200 \ LIQUID ARGON STORAGE TANK (N of 777)			1999		4/1/1999				2004				N		
RFTS	0517		Tank 201 \ BREATHING AIR TANK 455-641 (N of 777)			1999		4/1/1999				2004				N		
RFTS	0518		Tank 202 \ STORAGE TANK (DIESEL) (N of 777)			1999		4/1/1999				2004				N		
RFTS	0519		Tank 203 \ WATER/COOLANT STORAGE TANK (E of 777)			1999		4/1/1999				2004				N		
RFTS	0520		Tank 207 \ LIQUID ARGON STORAGE TANK (S of 776)			1999		4/1/1999				2004				N		
RFTS	0521		Tank 244 \ UNDERGROUND STORAGE TANK (GROUTED IN PLACE) (UST 22) (N of 776)			1999		4/1/1999				2004				N		
RFTS	0522		Tank 245 \ UNDERGROUND STORAGE TANK (DIESEL) (UST 23) (NW of 776)			1999		4/1/1999				2004				N		
RFTS	0523		TK-23 \ ABOVEGROUND STORAGE TANK (#2 DIESEL) (replacement for UST 23/Tank 245) (N of 776 door 16T)			1999		4/1/1999				2004				N		

Dataset Name: **FY 1999 Planning Data**

Page 12 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## Technology Needs

**Site Need Code:** RF-DD01

**Site Need Name:** Improved Decommissioning Characterization for Distinguishing Between Transuranic and Low-Levels of Contamination

**Focus Area Work Package ID:** DD-05

**Focus Area Work Package:** Material Recycle and Release

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):**

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Internal Duct Characterization System

Internal Duct Characterization System

Internal Duct Characterization System

Small Pipe Characterization System (SPCS)

Small Pipe Characterization System (SPCS)

Small Pipe Characterization System (SPCS)

Pipe Explorer (TM) System

Pipe Explorer (TM) System

Pipe Explorer (TM) System

Portable X-Ray, K-Edge Heavy Metal Detector

Portable X-Ray, K-Edge Heavy Metal Detector

Portable X-Ray, K-Edge Heavy Metal Detector

Gamma Ray Imaging System

Gamma Ray Imaging System

Gamma Ray Imaging System

Pipe Crawler Internal Piping Characterization System

Pipe Crawler Internal Piping Characterization System

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Dataset Name: **FY 1999 Planning Data**

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

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## **Technology Needs**

Pipe Crawler Internal Piping Characterization System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

In Situ Object Counting System

In Situ Object Counting System

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Electret Ion Chambers

Electret Ion Chambers

Electret Ion Chambers

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Dataset Name: **FY 1999 Planning Data**

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

Page 14 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N
01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N

**Site Need Code:** RF-DD02

**Site Need Name:** High Speed, Integrated Characterization System for (1) Radioactive, (2) Hazardous, and (3) Toxic Contamination

**Focus Area Work Package ID:** DD-12

**Focus Area Work Package:** D&D of Weapons Components Fabrication Facilities

**Focus Area:** DDFA

**Agree with Technology Link:** Y

### **Benefits (Cost, Risk Reduction, Both):**

#### Technologies

#### Cost Savings (in thousands of dollars)

#### Range of Estimate

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Gamma Ray Imaging System

Gamma Ray Imaging System

Mobile Automated Characterization System

Mobile Automated Characterization System

Mobile Automated Characterization System

Dataset Name: **FY 1999 Planning Data**

Page 15 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## Technology Needs

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

In Situ Object Counting System

In Situ Object Counting System

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

## Related CCP Milestones

## Related Waste Streams

## Agree?

## Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

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Dataset Name: **FY 1999 Planning Data**

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

Page 16 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

**Site Need Code:** RF-DD03

**Site Need Name:** Improved Interior Airborne Particulates Control

**Focus Area Work Package ID:** DD-12

**Focus Area Work Package:** D&D of Weapons Components Fabrication Facilities

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):**

### Technologies

Reactor Surface Contamination Stabilization

Reactor Surface Contamination Stabilization

Concrete Dust Supression System

Concrete Dust Supression System

Strippable Coatings and Fixatives

Strippable Coatings and Fixatives

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Dataset Name: **FY 1999 Planning Data**

Page 17 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

Site Need Code: RF-DD04

Site Need Name: Improved Measurement Techniques for Free Release of Property and Salvageable Equipment Contaminated with Radionuclides

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

### Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

### Related CCP Milestones

### Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD08

Site Need Name: Improved Worker Protection Clothing and Systems

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

### Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Page 18 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## Technology Needs

FRHAM-TEX Anti Contamination Suit  
FRHAM-TEX Anti Contamination Suit  
NuFab Anti Contamination Suit  
NuFab Anti Contamination Suit  
Personal Ice Cooling System (PICS)  
Personal Ice Cooling System (PICS)  
Sealed-Seam Sack Suit  
Sealed-Seam Sack Suit  
Wireless Remote Monitoring System  
Wireless Remote Monitoring System

## Related CCP Milestones

## Related Waste Streams

## Agree?

## Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N
01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N

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Dataset Name: **FY 1999 Planning Data**

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

Page 19 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## Technology Needs

**Site Need Code:** RF-DD09

**Site Need Name:** Improved Decontamination of Porous Surfaces in Preparation for Building Demolition

**Focus Area Work Package ID:** DD-05

**Focus Area Work Package:** Material Recycle and Release

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Cost

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Biodegradation of Concrete

Biodegradation of Concrete

Biodegradation of Concrete

2-D Linear Motion System

2-D Linear Motion System

2-D Linear Motion System

Rotary Peening with Captive Shot

Rotary Peening with Captive Shot

Rotary Peening with Captive Shot

Centrifugal Shot Blast System

Centrifugal Shot Blast System

Centrifugal Shot Blast System

Concrete Shaver

Concrete Shaver

Concrete Shaver

Remotely Operated Scabbling

Remotely Operated Scabbling

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Dataset Name: **FY 1999 Planning Data**

Page 20 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

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## Technology Needs

Remotely Operated Scabbling

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

: -

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N
01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N

**Site Need Code:** RF-DD10

**Site Need Name:** Improved Decontamination of Non-Porous Building Property and Structures

**Focus Area Work Package ID:** DD-12

**Focus Area Work Package:** D&D of Weapons Components Fabrication Facilities

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):**

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Laser Surface Cleaning

Laser Surface Cleaning

Laser Surface Cleaning

CORPEX Nuclear Decontamination Process

CORPEX Nuclear Decontamination Process

CORPEX Nuclear Decontamination Process

Soda Blasting Decontamination Process

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Dataset Name: **FY 1999 Planning Data**

Page 21 of 29

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

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## **Technology Needs**

Soda Blasting Decontamination Process

Soda Blasting Decontamination Process

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Portable Concentrator for Processing Plutonium Contaminated Solutions

Portable Concentrator for Processing Plutonium Contaminated Solutions

Portable Concentrator for Processing Plutonium Contaminated Solutions

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Advanced Recyclable Media System

Advanced Recyclable Media System

Advanced Recyclable Media System

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

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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: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N
01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N

**Site Need Code:** RF-DD11

**Site Need Name:** Improved Size Reduction of Contaminated Equipment and Demolition Waste

**Focus Area Work Package ID:** NMFA-03

**Focus Area Work Package:** Untitled (pending title by FA)

**Focus Area:** PLUTOFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):** Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

Laser Cutting and Size Reduction  
 Laser Cutting and Size Reduction  
 Laser Cutting and Size Reduction  
 High Speed Clamshell Pipe Cutter  
 High Speed Clamshell Pipe Cutter  
 High Speed Clamshell Pipe Cutter  
 Oxy-Gasoline Torch  
 Oxy-Gasoline Torch

Dataset Name: **FY 1999 Planning Data**

Page 23 of 29

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

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF019 / Building 776/777 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0361**

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## **Technology Needs**

Oxy-Gasoline Torch

Self Contained Pipe Cutting Shear

Self Contained Pipe Cutting Shear

Self Contained Pipe Cutting Shear

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Hand Held Shear

Hand Held Shear

Hand Held Shear

Innovative Size Reduction Nibblers

Innovative Size Reduction Nibblers

Innovative Size Reduction Nibblers

Innovative Size Reduction Shears

Innovative Size Reduction Shears

Innovative Size Reduction Shears

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Dataset Name: **FY 1999 Planning Data**

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

Page 24 of 29

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

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## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

: -

01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N
01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N

**Site Need Code:** RF-DD15

**Site Need Name:** Real-Time Beryllium Surface Characterization

**Focus Area Work Package ID:** DD-12

**Focus Area Work Package:** D&D of Weapons Components Fabrication Facilities

**Focus Area:** DDFA

**Agree with Technology Link:** Y

**Benefits (Cost, Risk Reduction, Both):**

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

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Dataset Name: **FY 1999 Planning Data**

Page 25 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)	Y	N
01388: ER-04C - Sorted D&D TRU	Y	N
01389: ER-04D - Sorted D&D Uncontaminated to Disposal	Y	N
01387: ER-04B - Sorted D&D LLM	Y	N
01386: ER-04A - Sorted D&D LLW	Y	N
01390: ER-04E - Sorted D&D HAZ to Disposal	Y	N
01391: ER-04F - Sorted D&D to On Site Placement	Y	N

Site Need Code: RF-IF01

Site Need Name: Improved Computer-Based Training Platforms

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: RF-WM12

Site Need Name: Bulk Debris Characterization Techniques

Focus Area Work Package ID: MW-01

Focus Area Work Package: Nondestructive Characterization for Treatment, Transportation, and Disposal of MLL and MTRU Waste.

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Page 26 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

## Technology Needs

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

: -

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

Site Need Code: RF-ER06

Site Need Name: Improved Methods for Sampling and Characterization Beneath Large Building Foundations

Focus Area Work Package ID: SS-01

Focus Area Work Package: Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

: -

Site Need Code: RF-ER09

Site Need Name: Treatment Alternative for Surface Soil Contaminated with Plutonium and other Radionuclides

Focus Area Work Package ID: SS-03

Focus Area Work Package: Stabilization Technologies

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

### Related CCP Milestones

### Related Waste Streams

### Agree?

### Change?

: -

## Technology Deployments

Dataset Name: **FY 1999 Planning Data**

Page 27 of 29

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

# Project Baseline Summary Report

Data Source: **EM CDB**

Report Number: **GEN-01b**

Operations/Field Office: **Rocky Flats**

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

Site Summary Level: **Rocky Flats Environmental Technology Site**

HQ ID: **0361**

Project **RF019 / Building 776/777 Cluster Closure Project**

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Proximity Sensor System Development			
Potential Deployment	2000		
<b>Technology Name:</b> Oxy-Gasoline Torch			
Potential Deployment	1999		
<b>Technology Name:</b> Three Dimensional Mapping Sensor and Modeling Software			
Potential Deployment	2000		
<b>Technology Name:</b> Automated Shipping Container Unpacking System			
Potential Deployment	2000		
<b>Technology Name:</b> Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)			
Potential Deployment	2000		
Potential Deployment	1999		
<b>Technology Name:</b> Plasma Arc Torch w/Enhanced Fume Control			
Potential Deployment	2000		
<b>Technology Name:</b> Robotics for D&D			
Potential Deployment	2000		
<b>Technology Name:</b> RFETS D&D Initiative - Enhanced Cutting Tools			
Potential Deployment	1999		
<b>Technology Name:</b> FY98 ASTD - SWB Crate Counter			
Potential Deployment	2000		

Dataset Name: **FY 1999 Planning Data**

Page 28 of 29

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

# Project Baseline Summary Report

Data Source: EM CDB

Operations/Field Office: Rocky Flats

Site Summary Level: Rocky Flats Environmental Technology Site

Project RF019 / Building 776/777 Cluster Closure Project

Report Number: GEN-01b

Print Date: 3/9/2000

HQ ID: 0361

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## Technology Deployments

<u>Deployment Status</u>	<u>Deployment Year</u>		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
<b>Technology Name:</b> Sugar Fogging for Raschig Ring Removal			
Potential Deployment	2000		