

# Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

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

Project **RF022 / Building 779 Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0586**

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## General Project Information

### Project Description Narratives

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

**Purpose:** The purpose of the Building 779 Cluster Closure Project is to close and demolish all the facilities in the cluster, and to remediate contaminants in the underlying soils in accordance with cleanup standards for the site. This closure and remediation conforms to the DOE Site Vision and to the Rocky Flats Cleanup Agreement which has been signed by DOE, EPA and the State of Colorado. During the course of the projects, risks due to radiological and hazardous materials will be reduced as the materials are removed from the cluster. Additionally, the facility maintenance and surveillance costs which are required to keep the facilities safe and compliant can also be reduced.

**Scope:** The Building 779 Cluster consists of the primary building (B779), two filter plenum buildings (B729 and B782), and nine support buildings (B727, B780, B780A, B780B, B783, B784, B785, B786, and B787). Total square footage for the cluster, as listed in the Closure Project Metrics, is 76,031 square feet. The cluster also includes 12 miscellaneous storage tanks, not representing any square footage. Building 779 is a two-story, concrete structure with approximately 65,000 square feet of floor area. The building was primarily utilized for conducting research and development involving nuclear weapons materials processes, and approximately sixty percent of the space is contaminated or potentially contaminated. The building laboratories and shops were filled with mechanical and chemical process equipment, including approximately 133 gloveboxes. The primary contaminate is plutonium, but the building also contained small quantities of depleted uranium, beryllium and more than 4000 chemicals, some of which were radiologically contaminated. The building exhaust system, and the two plenum buildings, have plutonium contaminated ducts and HEPA filters.

It is estimated the deactivation, decontamination, and decommissioning of the B779 cluster will generate approximately 298 cubic meters TRU waste, 2702 cubic meters of LLW, 38 cubic meters of LLM waste and 1901 tons of Sanitary waste. There is suspected chemical and radiological contamination of soils under the buildings which could require decontamination and which could generate additional waste.

The scope of this cluster closure project is summarized below for each of the six major project activities.

#### Facility Landlord Functions:

- Conduct Limiting Conditions for Operations (LCO) surveillance's on Vital Safety Systems (VSS) as required by the building specific authorization basis document (i.e. fire systems, criticality alarm systems, HVAC systems).
- Conduct routine compliance surveillance and inspection of RCRA units, security systems, radiological control requirements, industrial safety, etc.
- Conduct baseline maintenance activities on VSS, facility support systems/structures, environmental compliance and waste management support systems, security systems, etc.
- Provide operations management and technical support for building baseline activities and in support of risk reduction activities.

#### SNM Removal Operations:

The scope of this activity involved the removal of all Category I and II SNM from facilities in order to remove the Material Access Area security requirements and proceed with Deactivation and Decommissioning. All containerized Category I and II SNM was removed from Building 779 in FY 96. The scope of this activity for Building 779 included removal of accessible holdup materials in gloveboxes and equipment. Small quantities of SNM will remain in facility equipment and exhaust systems until such equipment is removed during decommissioning.

#### Deactivation:

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## Project Description Narratives

The general scope of the deactivation phase included all of the physical activities to prepare and turn over the 779 building cluster to decommissioning as agreed upon in the building specific Work Summary Plan (WSP). This scope also included all of the prerequisite planning, project management and characterization activities to support the deactivation program (i.e. engineering, planning, scheduling, industrial safety, criticality and nuclear safety, regulatory programs). Approximately 133 gloveboxes were deactivated and more than 4,000 containers of excess chemicals removed during deactivation.

### Decommissioning:

The scope of the decommissioning phase includes all of the physical activities to decontaminate, dismantle and demolish the building cluster in preparation for IHSS remediation and final closure. This scope also includes all of the prerequisite planning and engineering, project and operations management, site preparation, support services and characterization activities to support decommissioning.

### Closure:

The scope of this activity includes the final close-out of the cluster site upon completion of decommissioning and IHSS remediation, and includes the regulatory and project close-out documentation required by the Department of Energy and the Rocky Flats Cleanup Agreement (RFCA).

### Remediate/Contain High Risk IHSS:

The scope of this activity includes remediation, excavation, or containment as appropriate to close the Under Building Contamination IHSS. Building 779 has suspected radiological, metal and volatile organic contaminants caused by leaks in the original process waste lines that runs through the building, or from spills in or around the building.

**Technical Approach:** Building 779 was used as a research and development facility from its construction in 1965 until nuclear operations ceased in 1989. The Special Nuclear Material, wastes, excess chemicals, etc. remained in the building until FY 1996, when the containerized SNM was removed. Planning for deactivation and D & D was also initiated in FY 96. During FY 97, sufficient deactivation was completed to allow for D & D to proceed in FY98. Facility landlord functions, which are necessary to keep the building safe and compliant, will continue in FY 99 while decommissioning activities are in progress. Removal of the SNM holdup in gloveboxes was conducted in FY 97 to ready the building for D & D. Planning for D & D, which includes preparation of the RFCA required Decommissioning Operations Plan, was started in FY 97 and completed and approved in FY98. Physical D & D of the cluster was initiated in FY98 and will be completed in FY99, with removal of building rubble. After completion of D & D, 779 Cluster Closure scope will include remediation of the suspected under building contaminants. Boreholes will be drilled through the foundation to determine the extent of any contamination. Contaminated soils will be excavated and treated with thermal absorption to remove any volatile organic contaminants. The radiologically contaminated soils will be disposed of as Low Level or Low Level Mixed Waste. After the IHSS is remediated, the necessary documentation will be completed and distributed for formal closure of the cluster.

The Building 779 Cluster Closure will be the first significant nuclear facility to undergo deactivation and D & D at the Site. The process will be used as a prototype of both the Site procedures and for the first closure under RFCA. The closure will also be used to validate, or to provide updated information for modeling deactivation and D & D scope, cost, waste and schedule estimates. It is important that the Site obtain actual closure data, so that estimates and plans for closing the larger nuclear facilities can be updated to reflect more accurate cost and decommissioning logic data.

To accomplish the above technical strategy the project will require technical support from the Sites Nuclear Safety, Criticality Engineering,

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## **Project Description Narratives**

Radiological Engineering and Analytical Laboratory groups. It will also require support from the Sites service organizations, e.g., Laundry, Trucking, PU&D and Security. Funding to provide the above support has been included in the project.

### **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**

All buildings will be demolished, and the under building soils and IHSS remediated to site closure standards as identified in RFCA.

### **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 779 Cluster Closure Project are radiological, chemical, 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. These hazards will be analyzed and categorized in accordance with the RFETS Safety and Health Program infrastructure policies, manuals, and procedures.

### **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.

### **PBS Comments:**

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## Project Description Narratives

Building 779 is the first significant site nuclear facility scheduled for deactivation and D&D. Experience from this process is essential for validating cost, waste, and schedule estimates for D&D for this site.

### 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.

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

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

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## Planning Section

### 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)	77,199	0	77,199	7,195	7,195	20,087	20,087	34,582	8,855	0	1,255	1,316	3,909	0	0	
PBS Baseline (constant 1999 dollars)	76,365	0	76,365	7,195	7,195	20,087	20,087	34,582	8,622	0	1,172	1,204	3,503	0	0	
PBS EM Baseline (current year dollars)	77,199	0	77,199	7,195	7,195	20,087	20,087	34,582	8,855	0	1,255	1,316	3,909	0	0	
PBS EM Baseline (constant 1999 dollars)	76,365	0	76,365	7,195	7,195	20,087	20,087	34,582	8,622	0	1,172	1,204	3,503	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%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

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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:** 9/30/2000

**Current Projected End Date of Project:** 3/22/2004

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

Scope Deletion

Efficiencies

New Scope

Cost Growth

The B779 Project realized a twenty-two day work delay in FY98 due to delay in receipt of CDPHE approval of the B779 Decommissioning Operations Plan. The cost increase is the result of not performing glovebox removals during the 22 day delay and performing other non-critical work (e.g cleaning gloveboxes) to keep decommissioning teams intact.

RF022 approved \$3879K of funding due to market conditions that resulted in an unfavorable bid to accelerate B779 Demolition.

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.

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## Project Reconciliation

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

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	21,093	Actual 1997 Cost:	7,195	Actual 1998 Cost:	20,087
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-6,189	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			-167
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-6,356				

### Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	11,428	Rebaselining due to acceleration. New scope dollar estimate is not of audit quality.
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	5,072	
Additional Amount to Reconcile (+):	44,011	
<b>Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):</b>	<b>49,083</b>	

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Remove and package as waste, the remaining gloveboxes.			6/30/1999						Y		
Demolish B729 and remove building rubble waste.			9/30/1999						Y		
FY00-M2 Complete Demo To Slab of B779 By 9/30/00	RF-0023		12/10/1999		12/10/1999						
FY98-M3 B779 Complete Removal Of 40 Gloveboxes	RF-0102		8/6/1998	8/6/1998	8/6/1998		Y				
FY98-T7 Complete 35 SNM Shipments	RF-0114		12/17/1998	12/17/1998	12/17/1998		Y				
Complete PBD 022 - B779 Cluster Closure Project	RF-OTHE-22		3/22/2004		3/22/2004					Y	

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## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
PBD 022 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
Remove and package as waste, the remaining gloveboxes.											
Demolish B729 and remove building rubble waste.											
FY00-M2 Complete Demo To Slab of B779 By 9/30/00	RF-0023	Y									Kaiser Hill Internal ( KHIs ) Milestones
FY98-M3 B779 Complete Removal Of 40 Gloveboxes	RF-0102										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
FY98-T7 Complete 35 SNM Shipments	RF-0114										Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
Complete PBD 022 - B779 Cluster Closure Project	RF-OTHE-22					Y	Y				Kaiser Hill Internal ( KHIs ) Milestones
PBD 022 Project Start				Y							PBD 022 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	5.00	0.00	5.00								5.00		
<b>RS</b>														
Cleanup	NR	5.00	0.00	5.00										5.00

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## 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>Fac.</b>														
Decom.- Assess.	NF	24.00	0.00	24.00				24.00						
<b>Fac.</b>														
Decom- Cleanup	NF	22.00	0.00	22.00					1.00	21.00				
<b>Tech.</b>														
Deployed	Ntd	4.00	0.00	4.00					2.00	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	
<b>RS</b>														
Assess.	NR													
<b>RS</b>														
Cleanup	NR	5.00												
<b>Fac.</b>														
Decom.- Assess.	NF													
<b>Fac.</b>														
Decom- Cleanup	NF													
<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 - 2065	Planned 2066 - 2070	Exceptions	Lifecycle Total				
<b>RS</b>														
Assess.	NR									5.00				

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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>										
<b>Cleanup</b>	NR									5.00
<b>Fac.</b>										
<b>Decom.- Assess.</b>	NF									24.00
<b>Fac.</b>										
<b>Decom- Cleanup</b>	NF									24.00
<b>Tech.</b>										
<b>Deployed</b>	Ntd								2.00	4.00

## 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
RFTS	3073		IHSS 138 \ B779 Cooling Tower BD	/	2002			2004				N		
RFTS	3111		IHSS 150.6 \ Rad Site S B779	/	2002			2004				N		
RFTS	3113		IHSS 150.8 \ Rad Site S B779	/	2002			2004				N		
RFTS	3244		PAC 700-1105 \ Transformer Leak - 779-1/779-2	/	2002			2004				N		
RFTS	3400		UBC B779 \	/	2002			2004				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	0064		779OT \ 779-777 OVERHEAD \ TUNNEL			1998		1/15/1998				2000	2000				N	
RFTS	0065		779TUN \ 779-782 TUNNEL \			1998		1/15/1998				2000	2000				N	
RFTS	0119		S783 \ PAINT SUPPLIES \			1998		1/15/1998				2000	2000				N	

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## 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
			STORAGE (NW of B783)															
RFTS	0209		727 \ EMERGENCY GENERATOR BUILDING (782)	\		1998		1/15/1998				2000	2000				N	
RFTS	0210		729 \ FILTER PLENUM BUILDING (779)	\		1998		1/15/1998				1999		6/30/1999			N	
RFTS	0211		779 \ PU PROCESS DEVELOPMENT BLDG	\		1998		1/15/1998				2000	2000				N	
RFTS	0212		780 \ FLAMMABLE STORAGE	\		1998		1/15/1998				2000		5/27/1999			N	
RFTS	0213		780A \ METAL STORAGE	\		1998		1/15/1998				2000	2000				N	
RFTS	0214		780B \ GAS BOTTLE STORAGE	\		1998		1/15/1998				2000		5/27/1999			N	
RFTS	0215		782 \ FILTER PLENUM BUILDING (779)	\		1998		1/15/1998				2000	2000				N	
RFTS	0216		783 \ PUMP HOUSE, COOLING TOWER (779)	\		1998		1/15/1998				2000	2000				N	
RFTS	0217		784 \ COOLING TOWER, STANDBY (A, B, C, D)	\		1998		1/15/1998				2000	2000				N	
RFTS	0218		785 \ COOLING TOWER, PROCESS WATER	\		1998		1/15/1998				2000	2000				N	
RFTS	0219		786 \ COOLING TOWER, WEST CHILLER (A, B)	\		1998		1/15/1998				2000	2000				N	
RFTS	0220		787 \ COOLING TOWER, EAST CHILLER (A, B, C, D)	\		1998		1/15/1998				2000	2000				N	
RFTS	0224		Tank 133 \ GLYCOL FILL TANK (N of 727)	\		1998		1/15/1998				2000	2000				N	

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# 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: **0586**

Project **RF022 / Building 779 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	0225		Tank 134 \ LIQUID NITROGEN STORAGE TANK (E of 779)	\		1998		1/15/1998				2000	2000			N		
RFTS	0226		Tank 135 \ UNDERGROUND STORAGE TANK (DIESEL) (foamed in place) (UST 24) (NE of 779)	\		1998		1/15/1998				2000	2000			N		
RFTS	0227		Tank 204 \ UNDERGROUND STORAGE TANK (DIESEL) (UST 19) (E of 729)	\		1998		1/15/1998				2000	2000			N		
RFTS	0228		Tank 231 \ LIQUID ARGON STORAGE TANK (E of 779)	\		1998		1/15/1998				2000	2000			N		
RFTS	0229		Tank 232 \ UNDERGROUND STORAGE TANK (DIESEL) (foamed in place) (UST 18) (W of 727)	\		1998		1/15/1998				2000	2000			N		
RFTS	0230		TK-18 \ ABOVEGROUND STORAGE TANK (DIESEL BLEND) ( replacement for UST 18/Tank 232) (W of 727)	\		1998		1/15/1998				2000	2000			N		
RFTS	0231		TK-19 \ ABOVEGROUND STORAGE TANK (DIESEL #2) (replacement for UST 19/Tank 204) (E of 729)	\		1998		1/15/1998				2000	2000			N		
RFTS	0232		TK-24 \ ABOVEGROUND STORAGE TANK (#2 DIESEL) ( replacement for UST 24/Tank 135) (NE of 779)	\		1998		1/15/1998				2000	2000			N		

## Technology Needs

Dataset Name: **FY 1999 Planning Data**

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

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HQ ID: **0586**

Project **RF022 / Building 779 Cluster Closure Project**

**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):**

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

## Technology Deployments

<b>Deployment Year</b>
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Deployment Status

Planned

Forecast

Actual Date

**Technology Name:** Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Potential Deployment 1999

Potential Deployment 2000

**Technology Name:** TMR Associates - Concrete Cleaner

Potential Deployment 1999

**Technology Name:** TMR Associates - Concrete Cleaner

Potential Deployment 2000

Dataset Name: **FY 1999 Planning Data**

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