

# *Project Baseline Summary Report*

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

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

Project **RF015 / Miscellaneous Production Zone Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0585**

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## **General Project Information**

### **Project Description Narratives**

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

Purpose: The purpose of this project is to accomplish a transition of the Miscellaneous Production Zone Cluster from operating nuclear and support facilities to a closed and remediated site.

The Production Zone cluster facilities have a variety of functional histories that dictate the activities required to achieve site closure. These vary from: nuclear analytical laboratory; nuclear waste non-destructive assay; and nuclear criticality experimental laboratory to waste water evaporation ponds; waste water treatment facilities; security operations facilities and office buildings. Each cluster of facilities within this project transitions through the following activities, based on process history and hazard characterization. Authorization for activities being performed in these facilities covered under various Authorization Basis documentation, e.g., Site SAR, B569 BIO, B559 FSAR, etc.

During this transition, there are six key activities that must take place to bring each of the facilities within the Cluster to Closure. They include;

- Facility Landlord Functions
- SNM Removal Operations
- Deactivation
- Decommissioning
- Closure
- Remediate/Contain High Risk IHSSi

Facility Landlord Functions: to provide safe, compliant facilities to allow mission and site closure activities to occur. These activities include; surveillances on Limiting Conditions for Operations (LCOs), Vital Safety Systems (VSS) as required by the building specific authorization basis document (e.g., fire systems, criticality alarm systems, HVAC systems), inspections on RCRA units, security systems, radiological systems, industrial safety, maintenance activities on VSS, facility support systems, structures or components, and Operations management and technical support for building baseline activities and in support of mission activities.

SNM Removal Operation: to remove any SNM from untoward places for proper dispositioning.

Deactivation: to place the facilities with the Cluster in a safe, stable condition to minimize landlord costs, surveillance and maintenance costs, for the purpose of retiring the facilities with adequate regard for the health and safety of the worker and to protect the public and environment. Some of these activities includes; prerequisite project management, planning and engineering, and characterization for the removal of hazardous chemicals and materials, containerized wastes, classified tooling, parts and material, TRU waste, etc.

Decommissioning: To complete remaining activities in the facility that occurs after Deactivation as defined in the Site's Facility Disposition Program Manual which include: Scoping, Phase I Planning (Reconnaissance Level Characterization Report), Phase II Planning and Engineering (Development of AB document, Work Packages, Decision Documents), Execution (surveillance and maintenance, equipment and facility decontamination,

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Dataset Name: **FY 1999 Planning Data**

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

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equipment dismantlement, utility system shutdown, and final demolition of the facility and disposal of rubble/wastes).

Remediate High Risk IHSS/UBC: to include soil characterization (core sampling), removal and disposal of concrete and soils, and placing Caps, as appropriate on the slab, to meet Closure Requirements. Remediation typically includes; excavation and treatment of soils such as thermal desorption and/or containment could include capping or closure in place. Remediation /containment of these IHSS's can be broken into three activities; 1) Planning/Authorization, Remediation/Disposition, 3) Final Regulatory Approval. There are 30 IHSS's in the Miscellaneous Production Zone that are No Further Action Sites and will undergo No Further Action Justification to delete these IHSS's from RFCA under this project. The High Risk IHSSs include: Rad Site B559 (IHSS159), Under Building Contamination (2 Buildings), and Solar Ponds (IHSS101)

Closure: includes the sampling, analyzing, and review and reporting of data necessary to ensure Site and Regulatory requirements have been met for Closure.

Scope: The Miscellaneous Production Zone Cluster Project includes the following clusters; 207, 559, 566, 569, 800, 800A, 886, 910, 964,980 and SECNPZ clusters.

The 207 cluster includes the management and maintenance of the solar ponds (207A, 207B-N, 207B-C, 207B-S, 207C, 788, 788A), the pump houses (308B, 308B-A, 308B-C)

The 964 cluster includes the 964 waste storage building.

The 559 Cluster includes buildings 559, 528, 561, 562, 560, 563, and 564 and provides support to both projects and programs via analytical laboratory analysis. The that building 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 ensure Vital Safety System operability. Building availability is maintained at the level necessary to support SNM, Waste Management, and Closure operations.

The 566 Cluster includes buildings 566, 566A, 566B, and tank 132 and had been utilized for cold laundry. The facilities may be utilized in the future for office space. The 800A cluster includes T883A, T883B, T883C, T883D, T881A, T881B, 830, 882, 884, 885, 889 SLAB, 889A AND 890. These trailers are currently used for office space. The SECNPZ cluster includes security force buildings 372, 372A, 550, 375, 792, 792A, 761, 901, 762, 762A, 213, 260, 519, 557, 764, 765, 765A, 773, 888, 992, tanks 153, 154, 155, 1262, 230, and 235 which are used to control entry into the Protected Area and are used for other security requirements.

The 569 cluster includes buildings 569 and 570. The primary purpose is to provide Non Destructive Assay capabilities.

The 886 cluster includes buildings 875, 880, 886, T886A and 888A. Also included are Tanks 039, 040, and 294, plus IHSS 164.2. This cluster is currently one of the first significant nuclear facilities scheduled for closure.

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The 910 Cluster includes the maintenance and management of 215D, 226, 227, 228A, 228B, and 910. Also included in this cluster is the PWTSN buildings which consist of those facilities associated with the process waste system. Funding is located in PBS 5.

The 980 Cluster consists of buildings 968, 965, 980, these facilities have been demolished.

The activity scope of this Cluster Closure Project is summarized below for the six major 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's/inspections on 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:

There are no SNM Removal Operations associated with this Cluster Closure Project.

### Deactivation:

The scope of the deactivation phase includes all of the physical activities to prepare and turnover a building cluster to decommissioning as agreed upon in the building specific End State Criteria. This scope also includes 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).

### Decommissioning:

The scope of the decommissioning phase includes all of the physical activities to decontaminate, dismantle and demolition building clusters in preparation fro IHSS remediation and final closure. This scope also includes all of the prerequisite planning, project management and characterization activities to support the decommissioning program (i.e. engineering, planning, scheduling, industrial safety, criticality and nuclear safety, regulatory programs).

### 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 or containment as appropriate to close the High Risk IHSSs in the Miscellaneous Production Zone. Typically, remediation will include excavation and treatment such as thermal desorption and/or containment could include capping or closure in

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place. Remediation/containment of these IHSSs can be broken into three activities; 1) Planning/Authorization, 2) Remediation/Disposition, 3) Final Regulatory Approval.

There are 30 IHSSs in the Miscellaneous Production Zone that are No Further Action Sites and will undergo No Further Action Justification to delete these IHSSs from RFCA under this project.

The High Risk IHSSs include:

Rad Site B559 (IHSS159)

Under Building Contamination (2 buildings)

Solar Ponds (IHSS101)

Technical Approach: Liquid wastes from laboratory operations will be accepted for treatment in Buildings 374 and 774 until alternate treatment capabilities are available.

A mobile laboratory or off-site laboratory is available by June, 2002 to accept low-level waste samples. SNM and TRU samples will be shipped to another DOE nuclear laboratory as necessary after 559 begins D&D.

Facility Landlord Functions: The Facility Landlord Functions consist of the ongoing effort necessary to maintain a safe, compliant, and operable building in support of Defense Nuclear Facilities Safety Board (DNFSB) and RFCA milestones, performance measures, and other risk reduction activities. This Project will provide an operable facility to safely conduct Risk and Mortgage reduction efforts. Planned activities during the period are: SNM Liquid Stabilization, SNM Consolidation, SNM Shipping, SNM Solid Residue Elimination, and SNM Processing, Deactivation and Decommissioning. The major sub-activities within the Facility Landlord Functions include compliance surveillance, maintenance, operations management, technical support and authorization basis management. Compliance to the authorization basis is demonstrated through the performance of applicable surveillance's and/or compensatory measures. Appropriate controls are maintained, and verification inspections are performed to demonstrate compliance to applicable State, Federal, and 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 the achievement of SNM removal, deactivation operations and Performance Measures. It is expected that the funding level for this activity will decrease as different stages of the SNM removal activities and deactivation activities are completed. Some level of landlord activities will be necessary until the facility transitions to decommissioning.

SNM Removal Operations: This operation removes SNM, in numerous forms, from buildings to support the elimination of individual storage areas and the Material Access Areas, and transitions buildings to deactivation. Materials include all SNM stored in vaults and vault type rooms, specific items in gloveboxes or other process areas (such as residues), and SNM remaining in equipment and gloveboxes. Once the inventory of SNM is below the threshold determined by Nuclear Material Safeguards, the Material Access Area will be removed.

Deactivation: The first element of deactivation is characterization. This includes the determination of facility, systems and equipment conditions that currently exist in the buildings. The second element is planning, which includes producing Initial Project Scope documents, Work Summary Plans, engineering, applicable studies and obtaining an authorization basis to conduct deactivation activities. The third element is administrative deactivation (administrative changes in the building operating requirements). The fourth element is authorization basis changes needed to reduce

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mortgage costs as the deactivation process proceeds. The fifth element is initial physical deactivation. Activities include removing: combustibles, documents, excess equipment, excess chemicals, radiological check sources; completing housekeeping cleanup, releasing excess equipment and material to PU&D, preparing equipment for removal, preparing and packaging waste as necessary for on-site transfer, and completing RCRA closure certification. The sixth and final element is final physical deactivation. Activities include de-energizing glovebox electrical and alarm systems, capping of glove ports, remediation of ducts, equipment and gloveboxes to allow for the reduction of the building hazard category, isolate and remove auxiliary power equipment, depressurize, drain, flush and cap utility piping system, de-energize and secure HVAC units not needed for D&D. Concurrent with mission and risk reduction activities, the deactivation program element will also include non-actinide liquid removal, raschig ring removal, contaminated oil removal and the removal of other organic liquids and solids

Decommissioning: Decommissioning at RFETS will be conducted under CERCLA as a removal action. Removal actions, authorized by CERCLA Section 104 d (2), are designed to address immediate threats to human health and the environment. A removal action may be conducted during any point in the CERCLA response process. Typical removal actions include decontaminating, dismantling, and demolishing buildings. Unless facility circumstances require otherwise, the DOE policy provides that when CERCLA applies, decommissioning will be conducted as a non-time-critical removal actions - actions with a planning horizon of six months or more. The various steps in the decommissioning framework can be grouped into a series of stages that complete key elements of the process: 1) Pre-decisional activities center around the transition process as management of the facility transfers from deactivation and establishing a Surveillance and Maintenance (S&M) program to care for the facility until decommissioning can be accomplished. 2) Determination of Action is when the decision is made to proceed with decommissioning. At this point, the scope of the project is defined and initial cost, schedule, and technical baselines are established by the preparation of a Decommissioning Operations Plan (DOP). 3) The Engineering and Planning effort will be performed in a tailored manner to address the specific risks present during decommissioning and to provide measures to mitigate the risks and protect workers, the public and environment. The Decommissioning Program Plan (DPP) is the implementing regulatory document for all decommissioning actions at Rocky Flats. This document and responsiveness summary will be part of the decommissioning administrative record. These actions shall be implemented in a manner in compliance with the applicable requirements of CERCLA, RCRA corrective actions and other environmental laws. For the uncontaminated, non-nuclear facilities, DOP will not be required. For these facilities a project specific Decommissioning Project Plan will be prepared. 4) Decommissioning Operations are activities which implement the DOP and accomplish the field work.

The 886 Cluster demolition is a near term project that does have uncertainties associated with nuclear facility closure, but the predominant risk is one of schedule, due to potential funding constraints.

The 569 Cluster demolition has little technical risk, since it is a storage facility, but some schedule risk since it is a key support facility to the waste management project and the residue elimination project.

The 559 Cluster demolition has technical risk related to nuclear facility closure that is expected to be resolved through performance of earlier demolition projects. There is also schedule risk associated with completing the nuclear material disposition analytical work scope, such that a "mobile laboratory" concept can be utilized to support final closure activities.

The 910 Cluster demolition has little risk, unless conditions change with respect to continued operation of B374 for liquid waste processing.

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Cluster Closure and IHSSs: This activity includes all environmental restoration activities relating to cluster site closure. The Individual Hazardous Substance Sites (IHSSs) are placed into 2 categories: High and Low. High hazard IHSSs will be remedied, excavated or contained, and low hazard IHSSs will undergo administrative close-out called the No Further Action process. The remediation/containment of IHSSs can be broken into three activities; Planning/authorization, Remediation/disposition, Final regulatory approval. The original process waste lines transported a wide variety of aqueous wastes, including rads and volatile organic compounds (VOCs). Leaks from flanges, seals, valve vaults, and known spills contaminated soils around the pipelines. Contaminated soil will be treated by thermal desorption to remove VOCs and LLMW will be disposed offsite. Building 374 has known spills around the facility. Boreholes will be drilled through foundations to determine the extent of contamination. Contaminated soil will be excavated and treated with thermal desorption to remove VOCs and the remaining soils will be disposed of as LLW/LLMW.

### 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 project end state will be achieved when the major elements have been completed and final closure has been achieved in accordance with RFCA and Site requirements.

### 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 Miscellaneous Production Zone Cluster Closure Project are radiological, chemical, and other standard industrial hazards. 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,

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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.

This is accomplished through the Integrated Work Control Program (IWCP). Activities are screened using the Activity Screening Process. The screening results in a binning of the activity into a low, medium, or high planning category based on the hazard and uncertainty of the activity and the experience of the project team members. Safety and Health subject matter experts (SMEs) provide key support in the planning of the activity to ensure the safety and health of the workers and protection of the environment.

### PBS Comments:

The 500 cluster provides analytical laboratory services (B559), non-radioactive laundry (B566) and waste drum/crate counting capability (B569). Building 886 a former criticality experiment laboratory, will be the second major nuclear facility at RFETS to undergo deactivation and decommissioning which makes this an essential project to establish the decommissioning program at the site. This project will provide significant lessons learned related to deactivation and decommissioning, scope, schedule, cost and waste estimation. Other buildings within the Miscellaneous Production Zone are generally support buildings for other nuclear operations and waste management activities which support the overall mission to decommission and remediate the site to release standards as identified in RFCA. These other facilities include offices, security buildings, substations, process waste system facilities, storage facilities, calibration laboratory, infrastructure support within the Nuclear Production Zone, etc.

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.

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.

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### 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 Total</b>	<b>2007-2070 Total</b>	<b>1997-2070 Total</b>	<b>1997</b>	<b>Actual 1997</b>	<b>1998</b>	<b>Actual 1998</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>
PBS Baseline (current year dollars)	147,956	0	147,956	14,094	14,094	10,104	10,104	11,576	10,568	20,903	12,095	14,636	43,094	7,692	3,194
PBS Baseline (constant 1999 dollars)	138,797	0	138,797	14,094	14,094	10,104	10,104	11,576	10,290	19,935	11,298	13,390	38,614	6,751	2,745

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## 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 EM Baseline (current year dollars)	147,956	0	147,956	14,094	14,094	10,104	10,104	11,576	10,568	20,903	12,095	14,636	43,094	7,692	3,194	
PBS EM Baseline (constant 1999 dollars)	138,797	0	138,797	14,094	14,094	10,104	10,104	11,576	10,290	19,935	11,298	13,390	38,614	6,751	2,745	
	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%
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

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## Project Reconciliation

### Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2009

Current Projected End Date of Project: 6/7/2006

### 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 costs have been revised to be consistent with the Facility Disposition Cost Model that was developed to improve the basis and accuracy of the out year decommissioning cost estimates. This model is based on actual decommissioning costs incurred at Rocky Flats and actual cost data or bottom up estimates from other government and commercial facilities.

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 Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	120,687	Actual 1997 Cost:	14,094	Actual 1998 Cost:	10,104
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	96,489	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			2,605

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## Project Reconciliation

Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 99,094

## Project Cost Changes

### Cost Adjustments    Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

37,847    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:

136,941

Additional Amount to Reconcile (+):

-22,342

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **114,599**

## Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
FY00-M3 Complete Demo To Slab of B886	RF-0173		7/25/2001		7/25/2001						
B559 Decommissioning Demolition Complete	RF-0412		9/1/2004		9/1/2004						
Complete PBD 015 - Misc Prod Zone Cluster Closur	RF-OTHE-15		6/7/2006		6/7/2006					Y	
PBD 015 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
FY00-M3 Complete Demo To Slab of B886	RF-0173	Y									Rocky Flats Clean-up Agreement ( RFCAs ) Milestones
B559 Decommissioning	RF-0412	Y									Kaiser Hill Internal ( KHIs )

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# Project Baseline Summary Report

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Operations/Field Office: **Rocky Flats**

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

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

HQ ID: **0585**

Project **RF015 / Miscellaneous Production Zone Cluster Closure Project**

## 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
Demolition Complete											Milestones
Complete PBD 015 - Misc Prod Zone Cluster Closur	RF-OTHE-15				Y	Y					Kaiser Hill Internal ( KHIs ) Milestones
PBD 015 Project Start				Y							PBD 015 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	26.00	0.00	26.00	9.00	4.00	4.00	1.00				2.00	9.00	7.00
<b>RS</b>														
Cleanup	NR	24.00	0.00	24.00	9.00	2.00	3.00	1.00				1.00	6.00	7.00
<b>Fac.</b>														
Decom.- Assess.	NF	125.00	0.00	125.00				8.00	10.00		10.00		27.00	67.00
<b>Fac.</b>														
Decom- Cleanup	NF	128.00	0.00	128.00	4.00	3.00	3.00		8.00		9.00	11.00		27.00
<b>Tech.</b>														
Deployed	Ntd	2.00	0.00	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	7.00	3.00											

# Project Baseline Summary Report

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

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Project **RF015 / Miscellaneous Production Zone Cluster Closure Project**

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>														
Cleanup	NR	7.00	7.00											
<b>Fac.</b>														
Decom.- Assess.	NF	67.00	3.00											
<b>Fac.</b>														
Decom- Cleanup	NF	27.00	67.00	3.00										
<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				
<b>RS</b>														
Assess.	NR									35.00				
<b>RS</b>														
Cleanup	NR								1.00	35.00				
<b>Fac.</b>														
Decom.- Assess.	NF								9.00	132.00				
<b>Fac.</b>														
Decom- Cleanup	NF								1.00	132.00				
<b>Tech.</b>														
Deployed	Ntd									2.00				
<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	0063		IHSS 165 \ Triangle Area	Above Ground Material	2003			2003				Y	Approved	Y

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

HQ ID: **0585**

Project **RF015 / Miscellaneous Production Zone 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
				/ Waste/Storage Yards and Pads										
RFTS	0075		IHSS 123.1 \ Valve Vault 7	Tanks/Underground Storage Tanks	1997		9/30/1997			9/30/1997		Y	Approved	Y
RFTS	0174		IHSS 185 \ Solvent Spill	Spills and Leaks/Surface Spills	1994		10/31/1994	1994		10/31/1994		Y	Approved	N
RFTS	0175		IHSS 192 \ Antifreeze Discharge	Spills and Leaks/Surface Spills	1994		10/31/1994	1994		10/31/1994		Y	Approved	N
RFTS	0177		IHSS 194 \ Steam Condensate Leak	Spills and Leaks/Surface Spills	1994		10/31/1994	1994		10/31/1994		Y	Approved	N
RFTS	0924		IHSS 101 \ Solar Ponds	/	2003			2004				N		
RFTS	3004		PAC 700-1117 \ Bldg. 701 Water Line Soil Put-back	/	1998		9/30/1998	1998		9/30/1998		Y	Approved	
RFTS	3072		IHSS 137 \ B.712/713 Cooling Tower BD.	/	2005			2005				Y	Approved	
RFTS	3075		IHSS 139.1(S) \ Hydroxide Tank	/	2005			2005				Y	Approved	
RFTS	3104		IHSS 149.1 \ Effluent Line	/	2003			2003				Y	Approved	
RFTS	3105		IHSS 149.2 \ Effluent Line	/	2003			2003				Y	Approved	
RFTS	3121		IHSS 159 \ Rad Site B559	/	2003			2005				N		
RFTS	3128		IHSS 164.2 \ Rad Site #2 800 Area, Bldg 886 Spill	/	2002			2002				Y	Approved	
RFTS	3141		IHSS 176 \ S&W Contractor Yard	/	2003			2003				Y	Approved	
RFTS	3142		IHSS 177 \ B885 Drum Storage	/	2004			2004				Y	Approved	
RFTS	3152		IHSS 188 \ Acid Leak (SE of B374)	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	
RFTS	3164		IHSS 206 \ Inactive D-836 HW TK	/	2004			2004				Y	Approved	
RFTS	3168		IHSS 210 \ B980 Cargo Cont.	/	1997		9/30/1997	1997		9/30/1997		Y	Approved	

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

HQ ID: **0585**

Project **RF015 / Miscellaneous Production Zone 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
RFTS	3170		IHSS 212 \ B371 Drum Storage	/	1997		9/30/1997	1997		9/30/2009		Y	Approved	
RFTS	3172		IHSS 214 \ 750 Pad-Pondcrete/Saltcrete Stor.	/	2005			2005				Y	Approved	
RFTS	3229		PAC 500-906 \ Asphalt Surface Near Bldg 559	/	2004			2004				Y	Approved	
RFTS	3230		PAC 500-907 \	/	2004			2004				Y	Approved	
RFTS	3240		PAC 700-1101 \ Laundry Tank Overflow - Bldg 732	/	2004			2004				Y	Approved	
RFTS	3245		PAC 700-1106 \ Process Waste Spill - Portal 1	/	2004			2004				Y	Approved	
RFTS	3246		PAC 700-1107 \ Compressor Waste Oil Spill - Building 776	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3247		PAC 700-1109 \ Uranium Incident - Bldg 778	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3248		PAC 700-1110 \ Nickel Carbonyl Burial West of Bldg 771	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3273		PAC 900-1304 \ Chromic Acid Spill - Bldg 991	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3274		PAC 900-1305 \ Building 991 Roof	/	1992		9/30/1992	1992		9/30/1992		Y	Approved	
RFTS	3279		PAC 900-1310 \ ITS Water Spill (formerly 000-502)	/	2003			2003				Y	Approved	
RFTS	3282		PAC 900-1314 \ Solar Evaporation Pond 207B Sludge Release	/	1994		9/30/1994	1994		9/30/1994		Y	Approved	
RFTS	3389		UBC B528 \	/	2003			2005				N		
RFTS	3390		UBC B559 \	/	2003			2005				N		
RFTS	3404		UBC B886 \	/	2002			2003				N		
RFTS	3405		UBC B887 \	/	2004			2005				N		

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

HQ ID: **0585**

Project **RF015 / Miscellaneous Production Zone 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	0044		555 \ Electrical Substation #2	\		1996						1996		9/30/1996		N		
RFTS	0047		558 \ Electrical Substation #4	\		1996						1996		9/30/1996		N		
RFTS	0048		559-TUN \ 559-561 TUNNEL	\		2004						2005				N		
RFTS	0049		559A \ 559 ACCOUNTABILITY BOARD SHELTER	\		2004						2005				N		
RFTS	0050		563S \ SKID-MOUNTED PORTABLE BLDG (E of 563)	\		2004						2005				N		
RFTS	0051		705T \ TEMPORARY GUARD POST (W of 705)	\		2003						2004				N		
RFTS	0052		706T \ TEMPORARY GUARD POST (E of 706)	\		2003						2004				N		
RFTS	0061		773S \ SKID-MOUNTED GUARD POST (S of 773)	\		2003						2004				N		
RFTS	0073		889 \ Equipment Decon Facility / Sumps	\		1996						1996		9/30/1996		N		
RFTS	0122		SYPA \ STORAGE YARDS IN PA	\		2001	2001					2002				N		
RFTS	0123		T788A \ WASTE STORAGE BLDG (Unit 21) (aka ER in WEMS)	\		1999		4/1/1999				1999				N		
RFTS	0124		T889A \ Trailer - Locker Rm/Shower	\		1996						1996		9/30/1996		N		
RFTS	0198		965 \ Carpentry Shop/Contractor Storage	\		1996						1997		9/30/1997		N		
RFTS	0199		968 \ Contracto Warehouse/Storage	\		1996						1997		9/30/1997		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
RFTS	0200		980 \ General Metal Shop	\		1996						1997		9/30/1997		N		
RFTS	0240		875 \ FILTER PLENUM BUILDING (886)	\		1998		5/31/1998				2001	2001			N		
RFTS	0241		880 \ STORAGE BUILDING	\		1998		5/31/1998				2001	2001			N		
RFTS	0242		886 \ NUCLEAR SAFETY/CRITICALITY FACILITY	\		1998		5/31/1998				2001	2001			N		
RFTS	0243		T886A \ OFFICES	\		1998		5/31/1998				2001	2001			N		
RFTS	0244		888A \ ELECTRICAL SUBSTATION	\		1998		5/31/1998				2001	2001			N		
RFTS	0245		Tank 039 \ UNDERGROUND U CONTAMINATED WASTEWATER TANK (UST 57) (W of 886)	\		1998		5/31/1998				2001	2001			N		
RFTS	0246		Tank 040 \ STORAGE TANK (out of service) (N of 880)	\		1998		5/31/1998				2001	2001			N		
RFTS	0247		Tank 294 \ UNDERGROUND STORAGE TANK (UST 58) (W of 886)	\		1998		5/31/1998				2001	2001			N		
RFTS	0266		830 \ STORAGE/ISOLATED POWER SUPPLY	\		2004						2005				N		
RFTS	0267		T881A \ OFFICES	\		2004						2005				N		
RFTS	0268		T881B \ OFFICES	\		2004						2005				N		
RFTS	0269		882 Slab \ CONCRETE SLAB	\		2004						2005				N		
RFTS	0270		T883A \ OFFICES	\		2004						2005				N		
RFTS	0271		T883B \ OFFICES	\		2004						2005				N		

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## Facility Decommissioning

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RFTS	0272		T883C \ OFFICES	\		2004						2005				N		
RFTS	0273		T883D \ RESTROOMS	\		2004						2005				N		
RFTS	0274		884 \ WASTE STORAGE (Unit \ 13)	\		2004						2005				N		
RFTS	0275		885 \ MAINTENANCE/PAINT \ & OIL STORAGE	\		2004						2005				N		
RFTS	0276		889 Slab \ CONCRETE SLAB	\		2004						2005				N		
RFTS	0277		790 \ RADIATION \ CALIBRATION \ LABORATORY	\		2003						2004				N		
RFTS	0278		964 \ WASTE STORAGE \ BUILDING (Unit 24)	\		2001	2001					2002				N		
RFTS	0365		308A \ SOLAR PONDS PUMP \ HOUSE (207)	\		1999		4/1/1999				1999		6/30/1999		N		
RFTS	0366		788 \ CEMENTATION \ PROCESS BLDG. - \ PONDCRETE OPNS (Unit 48)	\		1999		4/1/1999				1999		6/30/1999		N		
RFTS	0368		Tank 023 \ PROPANE \ STORAGE TANK (OUT OF \ SERVICE) (W of 788A)	\		1999		4/1/1999				1999		5/27/1999		N		
RFTS	0369		Tank 136 \ CEMENT SILO \ (OUT OF SERVICE) (SW of \ 788)	\		1999		4/1/1999				1999		4/1/1999		N		
RFTS	0370		Tank 137 \ CEMENT SILO \ (OUT OF SERVICE) (W of \ 788A)	\		1999		4/1/1999				1999		4/1/1999		N		
RFTS	0371		Tank 138 \ SLUDGE \ THICKENER TANK (OUT OF	\		1999		4/1/1999				1999		4/1/1999		N		

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Project **RF015 / Miscellaneous Production Zone 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
			SERVICE) (E of 788)															
RFTS	0372		Tank 139 \ PROPANE STORAGE TANK (W of 788A)	\		1999		4/1/1999				1999		4/1/1999			N	
RFTS	0393		215C \ DOMESTIC WATER STORAGE (aka Tank 141)	\		2005						2006					N	
RFTS	0394		928 \ FIRE WATER PUMP HOUSE	\		2005						2006					N	
RFTS	0395		Tank 140 \ STORAGE TANK (#2 FUEL OIL) (W of 928)	\		2005						2006					N	
RFTS	0444		215D \ EVAPORATION DISTILLATE STORAGE TANK, 500,000 gal (910) (aka Tank 142)	\		2001	2001					2002					N	
RFTS	0445		226 \ NaCl BRINE STORAGE TANK (E of 910)	\		2001	2001					2002					N	
RFTS	0446		227 \ NITRIC ACID STORAGE TANK (E of 910) (aka Tank 335; aka D-54)	\		2001	2001					2002					N	
RFTS	0447		228A \ DRYING BED (910)	\		2001	2001					2002					N	
RFTS	0448		228B \ DRYING BED (910)	\		2001	2001					2002					N	
RFTS	0449		910 \ REVERSE OSMOSIS - EVAPORATOR BLDG	\		1999						2002					N	
RFTS	0451		Tank 143 \ STORAGE TANK 450-05A (SE of 910)	\		2001	2001					2002					N	
RFTS	0452		Tank 144 \ UNDERGROUND STORAGE TANK D-15 (E of 910)	\		2001	2001					2002					N	

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## Facility Decommissioning

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RFTS	0453		Tank 336 \ EDTA STORAGE TANK (N of 910) ( aka D-51)	\		2001	2001					2002				N		
RFTS	0615		213 \ PROTECTION ALARM & COMMUNICATION SYSTEM	\		2004						2005				N		
RFTS	0616		260 \ PERIMETER SECURITY ZONE	\		2004						2005				N		
RFTS	0617		372 \ GUARD POST (PORTAL 2)	\		2004						2005				N		
RFTS	0618		372A \ PERSONNEL ACCESS CONTROL (PACS-2) (PORTAL 2)	\		2003						2004				N		
RFTS	0619		375 \ GUARD TOWER T -4	\		2004						2005				N		
RFTS	0620		519 \ ALARM SYSTEMS STORAGE	\		2004						2005				N		
RFTS	0621		550 \ GUARD TOWER	\		2004						2005				N		
RFTS	0622		557 \ GUARD POST	\		2004						2005				N		
RFTS	0623		761 \ GUARD TOWER	\		2004						2005				N		
RFTS	0624		762 \ GUARD POST (PORTAL 1)	\		2004						2005				N		
RFTS	0625		762A \ PERSONNEL ACCESS CONTROL (PACS-1) (PORTAL 1)	\		2003						2004				N		
RFTS	0626		764 \ PIDAS DATA COLLECTION BLDG.	\		2004						2005				N		
RFTS	0627		765 \ SECONDARY ALARM CENTER	\		2004						2005				N		

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## Facility Decommissioning

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RFTS	0628		765A \ RADIO TOWER	\		2003						2004				N		
RFTS	0629		773 \ GUARD POST, CLOSED	\		2004						2005				N		
RFTS	0630		792 \ GUARD POST (PORTAL 3)	\		2003						2004				N		
RFTS	0631		792A \ PERSONNEL ACCESS CONTROL (PACS-3) (PORTAL 3)	\		2003						2004				N		
RFTS	0632		888 \ GUARD POST	\		1999						2001	2001			N		
RFTS	0633		901 \ GUARD TOWER	\		2003						2004				N		
RFTS	0634		992 \ GUARD POST	\		2003						2004				N		
RFTS	0635		Tank 152 \ PROPANE STORAGE TANK (W of 792A)	\		2003						2004				N		
RFTS	0636		Tank 153 \ STORAGE TANK (DIESEL FOR EMERGENCY GENERATOR) (W of 792A)	\		2003						2004				N		
RFTS	0637		Tank 154 \ PROPANE STORAGE TANK (W of 372A)	\		2003						2004				N		
RFTS	0638		Tank 155 \ STORAGE TANK (DIESEL FUEL FOR EMERGENCY GENERATOR) (W of 372A)	\		2003						2004				N		
RFTS	0639		Tank 162 \ PROPANE STORAGE TANK (W of 762A)	\		2003						2004				N		
RFTS	0640		Tank 230 \ GLYCOL STORAGE TANK (E of 764)	\		2003						2004				N		
RFTS	0641		Tank 235 \ STORAGE TANK (DIESEL FUEL FOR	\		2003						2004				N		

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HQ ID: **0585**

Project **RF015 / Miscellaneous Production Zone 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
			EMERGENCY GENERATOR) (N of 762A)															
RFTS	0642		515 \ ELECTRICAL SUBSTATION #5	\		2003						2004					N	
RFTS	0643		516 \ ELECTRICAL SUBSTATION #6	\		2003						2004					N	
RFTS	0644		517 \ ELECTRICAL SUBSTATION #7	\		2004						2005					N	
RFTS	0645		518 \ ELECTRICAL SUBSTATION #8	\		2004						2005					N	
RFTS	0646		520 \ SUBSTN 517-518 SWITCHGEAR BLDG	\		2004						2005					N	
RFTS	0647		575 \ ELECTRICAL POWER STATION	\		2003						2004					N	
RFTS	0648		566 \ PROTECTIVE CLOTHING DECON FACILITY	\		2003						2004					N	
RFTS	0649		566A \ PROTECTIVE CLOTHING PLENUM	\		2003						2004					N	
RFTS	0650		566B \ CARPENTER SHOP/STORAGE SHED (E of 566)	\		2003						2004					N	
RFTS	0651		Tank 132 \ STORAGE TANK (DIESEL) (N of 566)	\		2003						2004					N	
RFTS	0652		569 \ CRATE COUNTER AND WASTE STORAGE FACILITY (Unit 59)	\		2003						2004					N	
RFTS	0653		570 \ FILTER PLENUM	\		2003						2004					N	

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Project **RF015 / Miscellaneous Production Zone 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
			BUILDING (569)															
RFTS	0747		207 \ BLDG 774 UNTREATED \ WASTE STORAGE TANK 207 (aka Tank 198; aka T-207; aka T-29) (RCRA Unit 40)			2004						2005				N		
RFTS	0748		528 \ PROCESS WASTE PIT \ (559) (aka PS-528; aka T-7)			2004						2005				N		
RFTS	0749		728 \ PROCESS WASTE PIT \ (771) - INACTIVE (aka T-8; aka Tanks 292 and 293; aka T1 and T2)			2004						2005				N		
RFTS	0750		730 \ PROCESS WASTE PIT \ (776) (aka Tank 300; aka T-9; aka 776A & 776B)			2004						2005				N		
RFTS	0751		731 \ PROCESS WASTE PIT \ (707) (aka PS-731) (2 tanks, aka T-11; sump aka T-30)			2004						2005				N		
RFTS	0752		732 \ LAUNDRY WASTE PIT \ (778) (aka Tank 302; aka T-10; aka 776C & 776D)			2004						2005				N		
RFTS	0753		828 \ PROCESS WASTE PIT \ (886) - INACTIVE (aka T-21, T-22)			2004						2005				N		
RFTS	0754		887 \ SEWAGE & PROCESS WASTE PUMPING/LIFT STATION (S of 881) (aka PS-887) (aka T-24, T-32)			2004						2005				N		
RFTS	0755		Tank 018 \ UNDERGROUND \ OLD PROCESS WASTE TANK (S of 884)			2004						2005				N		

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## Facility Decommissioning

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RFTS	0756		Tank 019 \ UNDERGROUND \ OLD PROCESS WASTE TANK (S of 884)			2004						2005				N		
RFTS	0757		Tank 304 \ UNDERGROUND \ PROCESS WASTE STORAGE TANK (UST 45) (731)			2004						2005				N		
RFTS	0758		Tank 305 \ UNDERGROUND \ PROCESS WASTE STORAGE TANK (UST 46) (731)			2004						2005				N		
RFTS	0759		Tank 306 \ UNDERGROUND \ PROCESS WASTE STORAGE TANK (UST 47) (731)			2004						2005				N		
RFTS	0760		Tank 312 \ UNDERGROUND \ PROCESS WASTE SUMP (UST 62) (889)			2004						2005				N		
RFTS	0761		Tank 313 \ UNDERGROUND \ PROCESS WASTE SUMP (UST 63) (889)			2004						2005				N		
RFTS	0762		VV 001 \ PROCESS WASTE \ VALVE VAULT (W of 881)			2004						2005				N		
RFTS	0763		VV 002 \ PROCESS WASTE \ VALVE VAULT (W of 883)			2004						2005				N		
RFTS	0764		VV 003 \ PROCESS WASTE \ VALVE VAULT (NW of 889)			2004						2005				N		
RFTS	0765		VV 004 \ PROCESS WASTE \ VALVE VAULT (NW of 889)			2004						2005				N		
RFTS	0766		VV 005 \ PROCESS WASTE \ VALVE VAULT (NE of 889)			2004						2005				N		

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Project **RF015 / Miscellaneous Production Zone Cluster Closure Project**

## Facility Decommissioning

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RFTS	0767		VV 006 \ PROCESS WASTE VALVE VAULT (E of 889)	\		2004						2005				N		
RFTS	0768		VV 007 \ PROCESS WASTE VALVE VAULT (SW of 707)	\		2004						2005				N		
RFTS	0769		VV 008 \ PROCESS WASTE VALVE VAULT (W of 707)	\		2004						2005				N		
RFTS	0770		VV 009 \ PROCESS WASTE VALVE VAULT (W of 778)	\		2004						2005				N		
RFTS	0771		VV 010 \ PROCESS WASTE VALVE VAULT (S of 528)	\		2004						2005				N		
RFTS	0772		866 \ PROCESS WASTE TRANSFER BUILDING	\		2004						2005				N		
RFTS	0790		559 \ PLUTONIUM ANALYTICAL LABORATORY	\		2004						2005				N		
RFTS	0791		560 \ COOLING TOWER (559)	\		2004						2005				N		
RFTS	0792		561 \ FILTER PLENUM BUILDING (559)	\		2004						2005				N		
RFTS	0793		562 \ EMERGENCY GENERATOR BUILDING (561)	\		2004						2005				N		
RFTS	0794		563 \ COOLING TOWER (559)	\		2004						2005				N		
RFTS	0795		564 \ OFFICES	\		2004						2005				N		
RFTS	0797		Tank 128 \ LIQUID NITROGEN STORAGE TANK (S OF 559)	\		2004						2005				N		
RFTS	0798		Tank 129 \ LIQUID ARGON	\		2004						2005				N		

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Project **RF015 / Miscellaneous Production Zone 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
			STORAGE TANK (S of 559)															
RFTS	0799		Tank 130 \ UNDERGROUND \ STORAGE TANK (DIESEL) (UST 14) (NE of 559)			2004						2005					N	
RFTS	0800		Tank 131 \ UNDERGROUND \ STORAGE TANK (DIESEL) (UST 15) (E of 562)			2004						2005					N	
RFTS	0801		TK-14 \ ABOVEGROUND \ STORAGE TANK (#2 DIESEL) ( replacement for UST 14/Tank 130) (NE of 559)			2004						2005					N	
RFTS	0802		TK-15 \ ABOVEGROUND \ STORAGE TANK (#2 DIESEL) (replacement for UST 15/Tank 131) (SE of 562)			2004						2005					N	

## Technology Needs

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

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)

Cost Savings (in thousands of dollars)

Range of Estimate

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## **Technology Needs**

Gamma Ray Imaging System

Gamma Ray Imaging System

Gamma Ray Imaging System

Mobile Automated Characterization System

Mobile Automated Characterization System

Mobile Automated Characterization System

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)

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Project **RF015 / Miscellaneous Production Zone 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-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

### Cost Savings (in thousands of dollars)

### Range of Estimate

Reactor Surface Contamination Stabilization

Reactor Surface Contamination Stabilization

Concrete Dust Supression System

Concrete Dust Supression System

Strippable Coatings and Fixatives

Strippable Coatings and Fixatives

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## 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-DD04

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

Focus Area Work Package ID: DD-13

Focus Area Work Package: Oversized Metallic TRU Waste Disposition

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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Project **RF015 / Miscellaneous Production Zone 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-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

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

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## Technology Needs

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

**Site Need Code:** RF-DD09

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

**Focus Area Work Package ID:** DD-13

**Focus Area Work Package:** Oversized Metallic TRU Waste Disposition

**Focus Area:** DDFA

**Agree with Technology Link:** Y

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

### 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

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## Technology Needs

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

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

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## Technology Needs

**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

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

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## Technology Needs

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)

## 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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## Technology Needs

**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

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

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## Technology Needs

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

### 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

Dataset Name: **FY 1999 Planning Data**

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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 **RF015 / Miscellaneous Production Zone Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0585**

## 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-DD16

**Site Need Name:** Real-Time Beryllium Air Monitoring

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

**Focus Area:** DDFA

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

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

**Agree with Technology Link:** Y

### Technologies

### Cost Savings (in thousands of dollars)

### Range of Estimate

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: **0585**

Project **RF015 / Miscellaneous Production Zone 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):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

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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 **RF015 / Miscellaneous Production Zone Cluster Closure Project**

Report Number: **GEN-01b**

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

HQ ID: **0585**

## Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

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

Y

N

## Technology Deployments

Deployment Year
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Deployment Status

Planned

Forecast

Actual Date

**Technology Name:** Beryllium Air Monitor

Potential Deployment 2000

**Technology Name:** Beryllium Swipe Monitor

Potential Deployment 2000