

# Defense Facilities Closure Projects

## Proposed Appropriation Language

For expenses of the Department of Energy to accelerate the closure of defense environmental management sites, including the purchase, construction and acquisition of plant and capital equipment and other necessary expenses, [\$1,064,492,000] *\$1,082,297,000*, to remain available until expended. (*Energy and Water Development Appropriations Act, 2000.*)

## Explanation of Change

None

# Defense Facilities Closure Project

## Site Closure

### Program Mission

The Defense Facilities Closure Projects appropriation has a single account, Site Closure, which supports sites where the Environmental Management (EM) program has established a goal to complete its DOE cleanup mission by the end of FY 2006. This account includes funding for projects under the Ohio Field Office in Ohio (i.e., Fernald, Miamisburg, Ashtabula, and Columbus projects), and the Rocky Flats Environmental Technology Site in Colorado.

### Program Goal

Accelerating cleanup and project completion are central goals of the EM program. EM sites are working to reduce outyear costs by safely completing projects as soon and as efficiently as possible. For those sites in the Site Closure account, the goal of the EM program is to complete the cleanup mission by FY 2006, after which no further Departmental mission is envisioned, except for limited long-term surveillance and maintenance. These sites may be available for some alternative use.

### Program Objectives

- # Accelerate cleanup efforts at sites and realize substantial savings by the resulting reduction in long-term program costs and ongoing support costs.
- # Sequence work at the Ohio sites to focus activities on those sites where the most cost savings can be obtained through acceleration, while utilizing the remaining funding to focus on sequencing the completion of the remaining sites.
- # Where possible, once the cleanup mission has been accomplished, make sites available to communities for other uses.

### Performance Measures

EM prepares a performance-based budget that demonstrates the program and project results expected with the resources requested. Environmental Management program performance measures can be found in the site details that follow this overview.

## Significant Accomplishments and Program Shifts

The FY 2001 request reflects the project-oriented structure that EM has developed as a key component to safely accelerate cleanup and reduce costs. All EM activities are organized into projects which have a defined scope, schedule, cost, and end state. EM sites are working to sequence projects and track progress, thereby reducing life-cycle costs and schedules. Specific accomplishments and program shifts may be found in the site details that follow this overview.

### Funding Profile

(dollars in thousands)

	FY 1999 Current Appropriation	FY 2000 Original Appropriation	FY 2000 Adjustments	FY 2000 Current Appropriation	FY 2001 Request
Site Closure . . . . .	1,038,240	1,064,492	(4,045)	1,060,447	1,082,297
Subtotal, Defense Facilities Closure . . . . .	1,038,240	1,064,492	(4,045)	1,060,447	1,082,297
Y2K Supplemental . . . . .	3,500	0	0	0	0
Total, Defense Facilities Closure Projects	1,041,740	1,064,492	(4,045) <sup>a</sup>	1,060,447	1,082,297

Public Law Authorizations:

Public Law 95-91, "Department of Energy Organization Act (1977)"

Public Law 103-62, "Government Performance and Results Act of 1993"

Public Law 106-60, "The Energy and Water Development Appropriations Act, 2000"

Public Law 106-65, "The National Defense Authorization Act For Fiscal Year 2000"

### Funding by Site

(dollars in thousands)

	FY 1999	FY 2000	FY 2001	\$ Change	% Change
Ohio Field Office . . . . .	381,040	395,772	417,622	21,850	5.5%
Rocky Flats Field Office . . . . .	657,200	664,675	664,675	0	0.0%
Subtotal, Defense Facilities Closure . . . . .	1,038,240	1,060,447	1,082,297	21,850	2.1%
Y2K Supplemental . . . . .	3,500	0	0	0	<999.9%
Total, Defense Facilities Closure Projects .	1,041,740	1,060,447	1,082,297	21,850	2.1%

<sup>a</sup> Reflects Congressional Rescission.

# Ohio

## Mission Supporting Goals and Objectives

### Program Mission

The mission of the Defense Facilities Site Closure Environmental Management program managed through the Ohio Field Office is to support cleanup activities at four sites in the State of Ohio. These sites are: the Fernald Environmental Management Project; the Miamisburg Environmental Management Project; the Columbus Environmental Management Project; and the Ashtabula Environmental Management Project sites. The Ohio Field Office manages, coordinates, tracks, and assists in the implementation of the cleanup program among the various sites.

### Program Goal

The goal of the Ohio Field Office sites is the transfer of real property to the state or local communities by completing environmental restoration and waste management projects by FY 2006, with a minimal but adequate level of long-term stewardship continuing after project closure. The baseline for Fernald exceeds FY 2006, but the goal remains the same.

### Program Objectives

The objectives for the Ohio sites will be to continue safe shutdown; decontaminate and decommission buildings; disposition contaminated soil, debris and waste material to an off-site disposal cell or on-site, if appropriate; and accelerate groundwater cleanup through innovative technology deployment. This initiative depends on a variety of factors, including community needs, regulatory requirements, and technical feasibility. The Ashtabula Environmental Management Project site will be released for unrestricted use and returned to RMI Company; the Columbus Environmental Management Project site will be transferred to Battelle Laboratories for unrestricted use; the Fernald Environmental Management Project site will be completed and placed under institutional control; and the Miamisburg Environmental Management Project site will be transferred to the City of Miamisburg for restricted (industrial) use.

## **Performance Measures**

Performance measures are provided at an aggregate level after the Funding by Site table; as well as, at a project level in the Detailed Program Justification.

The Executive Budget Summary and the Metrics Summary provide a consistent set of high level performance measures. The more detailed project-level justification provides a description of significant activities for each project including detailed project performance measures and key project milestones, as applicable.

## **Significant Accomplishments and Program Shifts**

### **Ashtabula Environmental Management Project**

- # Completed construction and initiated operation of the Soil Treatment Plant (FY 1999) for processing Phase I contaminated soil; complete Phase I (FY 2000) soil campaign (18,000 tons of soil).
- # Initiated building decommissioning (FY 1999); complete decommissioning of two facilities (FY1999 and two in FY 2000). Completed the deactivation of two facilities (FY 1999) and three in FY 2000.
- # Continued low-level waste and legacy waste shipments for disposal (666 m<sup>3</sup> in FY 1999); transport and dispose of 672 m<sup>3</sup> low-level waste and remediation waste (FY 2000).
- # Decommission three facilities; process and dispose of remediation waste from decommissioned facilities; ship 130 m<sup>3</sup> low-level waste to DOE disposal sites and 800 m<sup>3</sup> remediation waste to commercial disposal. Complete Corrective Action Management Unit facility design; initiate Corrective Action Management Unit soil facility construction; and complete construction of the waste processing facility (FY 2001).

### **Columbus Environmental Management Project**

- # Continue transuranic waste processing (FY 1999/FY 2000); pressure washing, chemical bath processing and careful sorting/segregation.
- # Continued interior decontamination (FY 1999), including material and equipment removal; continue removal of material/equipment (FY 2000) from the hot cells.
- # Continue shipments of remediation and low-level waste (1,238 m<sup>3</sup> in FY 1999/2,756 m<sup>3</sup> in FY 2000).
- # Receive transuranic waste certification from the Waste Isolation Pilot Plant (FY 2000); completed startup (FY 1999) of the Sonatol SC-300 decontamination bath system.
- # Initiate the decontamination of two buildings at West Jefferson Site, including transuranic waste processing and associated equipment removal; and remediate soils from external areas at the site (FY 2000).
- # Initiate transuranic waste shipments to off-site interim storage location; remediate Old Filter Beds; continue low-level and remediation waste shipments (1,152 m<sup>3</sup>) to DOE and commercial disposal sites (FY 2001).

### **Fernald Environmental Management Project**

- # Initiated treatment of site waste water and ground-water monitoring (FY 1999); continue Waste Water Treatment Operation (FY 2000); completed first year operation of the groundwater re-injection and pre-designed monitoring in the waste pits and Plant 6 areas (FY 2000) and process two billion gallons of waste water.
- # Completed construction of the Waste Pit Material Dryers (FY 1999); initiate Dryer Process for Waste Pit remediated waste (FY 2000).
- # Initiated rail transport to an off-site disposal facility of the Waste Pits Project waste stream (FY 1999); continue processing, shipping, and disposal of remediated Pit Waste (FY 2000).
- # Completed safe shutdown (FY 1999) of all nuclear facilities; continue safe shutdown of non-nuclear facilities (FY 2000); and continue to treat and dispose of Safe Shutdown Residues (FY 2000).
- # Continued low-level and mixed waste disposition to the Toxic Substance Control Act Incinerator (FY 1999); continue shipment of thorium waste (FY 2000).
- # Initiated and completed excavation and removal of the Inactive Flyash Pile excavation (FY 1999); complete excavation of Stockpiles SP-2/3; and continue Advanced Waste Water Treatment operations (FY 2000).
- # Continued waste placement, including decontamination and decommissioning debris in Cell 1 and Cell 2 of the On-Site Disposal Facility and initiated construction of the liner for Cell 3 (FY 1999); and continue Cell 1 and 2 waste placement and initiate waste placement in Cell 3 (FY 2000).
- # Completed decontamination and decommissioning of Boiler Plant and Plant 9 (FY 1999); and complete decontamination and decommissioning of Maintenance Building/Tank Farm Complex (FY 2000); and award contract for decontamination and decommissioning of Plant 6 complex (FY 2000).
- # Initiate decontamination and decommissioning of Plant 5 (FY 2000).
- # Awarded Silos 1 and 2, and Silo 3 subcontract; completed Proof of Principle testing and initiate Accelerated Waste Retrieval for Silos 1 and 2 (FY 1999); initiate pre-operational activities for Silo 3 remediation (FY 2000).
- # The Department of Energy and the Environmental Protection Agency signed a dispute resolution settlement agreement for the Fernald Environmental Management Project which assessed a monetary penalty of \$100,000 to be paid by DOE in FY 1999.
- # Continue facility shutdown of the non-nuclear former Fernald production operations facilities; complete decontamination and decommissioning of Plant 5 complex; initiate the decontamination and decommissioning of Plant 6 complex including seven inter-connecting buildings; continue transportation of contaminated waste pits remediated media by rail to an off-site disposal facility; initiate Cell 1 final cap; continue media restoration of the Great Miami Aquifer through extraction/injection; continue Waste Water Treatment operations; initiate construction of the Fernald Silo 3 treatment facility; initiate operations of Silos 1 and 2 Radon Control System; and continue warehousing, handling, packaging, dispositioning, and surveillance of nuclear materials (FY 2001).

## **Miamisburg Environmental Management Project**

- # Completed disposition of all remaining legacy excess chemicals (FY 1999).
- # Completed disposition of all remaining legacy mixed low-level waste (FY 1999).
- # Complete disposition of all remaining legacy nuclear materials (FY 2000)
- # Transferred two parcels of real property to the City of Miamisburg (FY 1999) and two additional parcels (FY 2000).
- # Completed deactivation of six buildings (FY 1999) and four buildings (FY 2000)
- # Completed assessments of 14 buildings (FY 1999) and four buildings (FY 2000)
- # Completed decommissioning and decontamination of nine buildings (FY 1999) and three buildings (FY 2000).
- # Completed two assessments of soil release sites (FY 1999) and five assessments and six cleanups of soil release sites (FY 2000).
- # Continue deactivation and decontamination of Mound tritium complex – the “critical path” in (FY 1999/FY 2000).
- # Continue critical path activities to support deactivation and decontamination of Mound tritium complex; continue safe storage of transuranic waste; continue off-site waste disposition; deactivate six buildings; complete assessments on four buildings; complete decontamination and decommissioning of three buildings; complete 15 release site assessments and nine release site cleanups (FY 2001).

## Funding Schedule

	FY 1999 Current Appropriation	FY 2000 Current Appropriation	FY 2001 Request
HQNP-SI01-CL-OH / Security Investigations . . . . .	237	94	94
OH-AB-01 / Remediation . . . . .	10,334	10,815	11,485
OH-AB-02 / Project Management, Site Services, ES&H . . . . .	5,071	4,531	4,763
OH-CL-02-D / West Jefferson Site Decontamination (Defense Funded)	1,947	5,940	12,934
OH-CL-03-D / Project Management, Site Support & Maintenance . . . . .	1,593	2,868	3,200
OH-FN-01 / Facility Shutdown . . . . .	33,866	28,451	30,979
OH-FN-02 / Facility D&D . . . . .	14,280	11,834	20,263
OH-FN-03 / On-Site Disposal Facility . . . . .	15,827	16,468	14,861
OH-FN-04 / Aquifer Restoration . . . . .	23,123	27,223	23,058
OH-FN-05 / Waste Pits Remediation Project . . . . .	58,885	39,638	49,849
OH-FN-06 / Soils . . . . .	17,910	15,226	7,790
OH-FN-07 / Silos . . . . .	20,411	34,856	27,268
OH-FN-08 / Nuclear Materials . . . . .	3,712	10,015	12,796
OH-FN-10 / Mixed Waste . . . . .	4,563	3,541	7,986
OH-FN-11 / Waste Management . . . . .	17,069	14,274	24,185
OH-FN-12 / Program Support & Oversight . . . . .	69,356	72,996	71,758
OH-MB-01/ Tritium Operations Transition . . . . .	252	0	0
OH-MB-02 / Main Hill Tritium . . . . .	22,810	30,295	33,768
OH-MB-03 / Waste Activities . . . . .	14,662	16,144	15,790
OH-MB-04 / Main Hill Rad . . . . .	3,187	1,475	1,290
OH-MB-05 / Main Hill Non Rad . . . . .	3,006	3,515	2,786
OH-MB-06 / Special Metals/Plutonium Processing Hill . . . . .	1,248	5,463	4,455
OH-MB-07 / Test Fire Valley . . . . .	3,764	5,720	9,413
OH-MB-08 / Soils . . . . .	5,317	5,776	4,458
OH-MB-09 / Facility Operations & Maintenance . . . . .	25,158	23,924	18,165
OH-MB-10 / Regulatory Oversight & Site Support . . . . .	3,452	4,690	4,228
<b>Total, Ohio . . . . .</b>	<b>381,040</b>	<b>395,772</b>	<b>417,622</b>

## Funding by Site

(dollars in thousands)

	FY 1999	FY 2000	FY 2001	\$ Change	% Change
Ashtabula Environmental Management Project .....	15,405	15,346	16,248	902	5.9%
Columbus Environmental Management Project .....	3,540	8,808	16,134	7,326	83.2%
Fernald Environmental Management Project .....	279,002	274,522	290,793	16,271	5.9%
Miamisburg Environmental Management Project .....	82,856	97,002	94,353	-2,649	-2.7%
Ohio Field Office .....	237	94	94	0	0.0%
<b>Total, Ohio .....</b>	<b>381,040</b>	<b>395,772</b>	<b>417,622</b>	<b>21,850</b>	<b>5.5%</b>

## Metrics Summary

	FY 1999	FY 2000	FY 2001
Remedial Action/Release Site			
Assessments .....	2	5	15
Cleanups .....	0	6	9
Facility Deactivation			
Deactivated During Period .....	10	7	6
Facility Decommissioning			
Assessments .....	14	4	4
Cleanups .....	13	6	7
Mixed Low-Level Waste			
Treatment (m <sup>3</sup> ) .....	10	232	215
Disposal (m <sup>3</sup> ) .....	19	108	108
Low-level Waste			
Disposal (m <sup>3</sup> ) .....	7,800	0	2,392

## Site Description

### Fernald Environmental Management Project

The Fernald Environmental Management Project site encompasses approximately 1,050 acres, located 17 miles northwest of Cincinnati, Ohio. High-purity uranium metal products were produced at the Fernald Environmental Management Project site for the DOE and its predecessor agencies from 1951 to 1989. Thorium was also processed, but on a smaller scale, and is still stored on-site. Uranium processing operations at the Fernald Environmental Management Project were limited to a fenced, 136-acre tract known as the Production Area. In November 1989, the Environmental Protection Agency placed the Fernald Environmental Management Project site on the National Priorities List, and in April 1990 DOE and the Environmental Protection Agency entered into a Consent Agreement (since amended) for site remediation.

The Consent Agreement created five Operable Units covering total site remediation. The Fernald Environmental Management Project has implemented an accelerated cleanup schedule which provides for the completion of the currently established in-situ contaminant source remediation and risk mitigation activities, by FY 2006. The in-situ contaminant sources for Operable Unit 1, Operable Unit 2, Operable Unit 3, and Operable Unit 5 will be removed and appropriately disposed of by FY 2007, with an acceleration goal of FY 2006. In addition, the extraction and treatment infrastructure required to contain and mitigate risks associated with contaminated groundwater is in place. Follow-up activities for FY 2007 through FY 2008 include finalization of treatment and disposal of Silos 1 and 2 wastes and structures per the Operable Unit 4 Record of Decision amendment. Removal of the Silo Treatment Facility and final site closure will continue through December 2009 under current baseline schedule. A new completion contractor is being competitively selected and the Silos Record of Decision is being amended. These efforts will support the Department's FY 2006 overall cleanup goal. Following selection of a closure contractor for completion of the site, the existing baseline will be reviewed by the contractor and modified as necessary to incorporate the contractor's proposals and funding direction based on congressional action. The Fernald Environmental Management Project will utilize technologies such as a new inorganic treatment process to treat polychlorinated biphenyl contaminated low-level and mixed low-level waste (Tri-Mixed Treatment Demonstration), Oxy-gasoline torch cutting, vacuum removal of insulation materials, process piping interior inspection, and a technology demonstration project (injection of treated groundwater) that may reduce the groundwater remediation schedule from 27 to 10 years. Fernald Environmental Management Project is in compliance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980; the Federal Facility Compliance Agreement; the Resource Conservation and Recovery Act; the National Energy Policy Act; and other pertinent regulatory requirements.

## **Ashtabula Environmental Management Project**

The Ashtabula Environmental Management Project site, located in Ashtabula, Ohio, is owned and operated by the RMI Company, and is contaminated with both radiological and hazardous materials resulting from previous operations for the DOE to shape radioactive materials. The Ashtabula Environmental Management Project is comprised of three release sites and 26 buildings. The cleanup plan requires decontamination and decommissioning of buildings and the remediation of contaminated soils and groundwater to allow unrestricted use of the site. The Ashtabula Environmental Management Project will achieve completion by FY 2005, with a goal to accelerate completion to FY 2003. Cost efficiencies will be implemented due to the ability to treat and reduce the volume of contaminated waste (using the soil treatment system for soil remediation) that must be shipped off-site to a disposal facility. Ashtabula Environmental Management Project is in compliance with Nuclear Regulatory Commission and other regulatory requirements. Upon completion, the site will be released to the RMI Company. Post-completion, long-term groundwater pump and treat operations will continue until FY 2016.

## **Columbus Environmental Management Project**

The Columbus Environmental Management Project is comprised of two geographic sites (King Avenue and West Jefferson) located in and near Columbus, Ohio. Research and development work was performed at these facilities for the DOE and its predecessors agencies. The 15 affected buildings and grounds are privately-owned by Battelle Memorial Institute. The facilities retain an active Nuclear Regulatory Commission license for possession of special nuclear material and are in compliance with all necessary regulatory requirements. Both sites are radioactively-contaminated and cleanup efforts have been funded by both the Defense and Non-Defense accounts. The Columbus Environmental Management Project consists of 15 facilities and two release sites, of which 11 facility cleanups were completed by the end of FY 1998. Decontamination activities at King Avenue have been completed. Decontamination activities were initiated at West Jefferson in FY 1998. Activities at the West Jefferson site should be completed by FY 2005 and the site returned to the private owner.

## **Miamisburg Environmental Management Project**

The Miamisburg Environmental Management Project manages the Mound Plant, which is located on 306 acres in Miamisburg, Ohio, ten miles south of Dayton. The plant was built in the late 1940's to support research and development, testing and production activities for the Department's defense nuclear weapons complex and energy research programs. This mission continued until 1994, when these activities were transferred to other DOE facilities. The Mound Plant mission involved production of components which contained plutonium-238, polonium-210 and tritium, and processing large quantities of various types of high explosives. As a result of these past operations, the buildings, soil, and groundwater are contaminated with radioactive and hazardous chemicals. The only remaining mission at Mound is the production of plutonium heat sources by the Office of Nuclear Energy primarily for National Aeronautics and Space Administration space missions and other customers. The heat source program will remain at Mound after the environmental remediation and transfer of

the rest of the site is completed. The Miamisburg Environmental Management Project is on the Environmental Protection Agency National Priority List, and a Federal Facility Agreement to remediate the site has been negotiated with the Ohio and U.S. Environmental Protection Agencies.

In January 1998, the Department entered into a sales agreement with the Miamisburg Mound Community Improvement Corporation, an agent for the City of Miamisburg, to transfer the site to the City as parcels of real property are remediated. In FY 1999, two buildings and 27 acres were deeded over to the City. By the end of FY 2000, nearly 50 percent of the 106 buildings scheduled for removal from Mound will have been demolished or auctioned off; 25 percent of the 41 buildings scheduled for transfer to the City will have been decommissioned, decontaminated, and either transferred or made ready for transfer; and two-thirds of the 230 potential soil release sites will have been assessed and cleaned up. The Miamisburg Environmental Management Project is in compliance with all necessary regulatory requirements.

In December 1998, a major re-baselining of the Mound project was completed and costs were independently validated by the U.S. Army Corps of Engineers. Also, an overall evaluation of the Miamisburg Mound Closure Project was conducted by an external independent review team led by Hill International. Their final report issued in September 1999, contained no findings of which the Department was not previously aware and in the process of addressing. The current December 1998 baseline supports project completion by the end of FY 2004. While this closure date still remains the goal of the Department, events over the past year may necessitate a baseline change which would impact both project cost and schedule. The overall schedule is still expected to be completed within the Ohio closure goal of FY 2006. The presence of stable metal tritide particles in the "critical path" areas has caused concerns that may delay work in the affected buildings. Additionally, it has been recently determined that contaminated soil in areas previously not expected to be excavated will have to be removed at a unplanned cost.

All known tasks have technologically feasible solutions and the challenges to achieving site completion and transfer are primarily continued stable funding and continued availability of waste disposal facilities.

### Detailed Program Justification

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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The Ohio projects are managed through incentivized contracts based on performance and utilize fixed-price subcontracts to assure the most efficient service to the Government. The scope planned for FY 2001 has been reviewed and is consistent with the goals of the site as outlined in the *Accelerating Cleanup: Paths to Closure*. The Ohio projects included in this section of the budget have had external independent reviews by such organizations as the Corps of Engineers; Deloitte and Touche, Inc.; and Hill International of their baseline scopes and costs. The scope and funding requested for FY 2001 are consistent with the activities that have been reviewed.

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**HQNP-SI01-CL-OH/Security Investigations**

Funding will be used to perform new security investigations and re-investigations for non-Federal employees in accordance with DOE Order requirements for the Ohio/Mound site.

# Complete six initial investigations and 70 reinvestigations.

HQNP-S101-CL-OH .....	237	94	94
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**OH-AB-01/Remediation**

The Ashtabula Environmental Management Project remediation project consists of the demolition or decontamination of 26 facilities, equipment disposal, and remediation of affected land areas and groundwater. Completion will allow the Nuclear Regulatory Commission to release the site to the owner and operating contractor, RMI (formerly Reactive Metals, Inc.), for unrestricted use by FY 2005. Facility remediation will be mostly by demolition and disposal of debris in licensed, off-site disposal facilities. If cost effective, some of the facilities will be decontaminated and returned to service. Most contaminated soil will be treated in the soil cleaning facility and replaced on-site. Groundwater will be remediated by conventional pump-and-treat methods.

# Decommission and demolish three facilities, process contaminated debris and dispose of waste.

# Ship 130 m<sup>3</sup> low-level waste to DOE disposal sites; ship 800 m<sup>3</sup> of remediation waste to a commercial disposal facility.

# Complete Corrective Action Management Unit facility design.

# Initiate Corrective Action Management Unit soil facility construction.

# Complete construction of the waste processing facility.

OH-AB-01 .....	10,334	10,815	11,485
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(dollars in thousands)

	FY 1999	FY 2000	FY 2001
<b>Metrics</b>			
<b>Facility Deactivation</b>			
Deactivated during period . . . . .	2	3	0
<b>Facility Decommissioning</b>			
Cleanups . . . . .	2	2	3
<b>Mixed Low-Level Waste (m<sup>3</sup>)</b>			
Treatment (m <sup>3</sup> ) . . . . .	0	0	0
Storage (m <sup>3</sup> ) . . . . .	19	19	19
Remediation Waste Disposed . . . . .	528	646	800
<b>Low-level Waste (m<sup>3</sup>)</b>			
Disposal - DOE On-site/ Commercial (m <sup>3</sup> ) . . . . .	0	0	0
Shipped to DOE Disposal Site . . . . .	138	26	130
Storage . . . . .	2	2	0
<b>Key Milestones</b>			
# Campaign I soil remediation complete (July 2000).			
# Demolition of three buildings in FY 2001 complete (September 2001).			

**OH-AB-02/Project Management, Site Services, ES&H**

This project provides the management, safety and health administration, regulatory compliance, technical support, and site services necessary for the remediation work being performed at the Ashtabula Environmental Management Project to be conducted in a safe, environmentally compliant, and effective manner.

- # Maintain the site in a safe, compliant status, including: worker, site and facility air quality sampling and analysis; and effluent and groundwater sampling and analysis.
- # Maintain worker Environmental, Safety, and Health training.
- # Maintain site security including guard force and perimeter fences and internal exclusion zone control status.
- # Maintain applicable licenses, permits, records, and reporting status.
- # Monitor, report, and adjust work scope progress.

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
# Ensure Building and Corrective Action Management Unit remediation activities are planned, documented, and conducted according to plans in a safe, regulatory compliant, and cost effective manner.			
OH-AB-02 .....	5,071	4,531	4,763

**OH-CL-02-D/West Jefferson Site Decontamination**

The West Jefferson site decommissioning effort involves three major buildings and approximately 6 acres of external grounds. The initial phase of the effort is removal of highly contaminated equipment and components from a group of hot cells in Building JN-1. Pressure washing, chemical bath processing, and careful sorting/segregation will be employed to minimize the amount of material which will require packaging as transuranic waste. Low-level, mixed low-level, and transuranic waste will be packaged and shipped off-site for treatment, storage, and disposal at DOE approved sites. Once the primary source term has been removed from the buildings, interior decontamination will be performed using standard industrial techniques.

- # Initiate remote handled transuranic waste shipments to off-site interim storage location.
- # Initiate Building JN-1 high bay decontamination.
- # Remediate Old Filter Beds.
- # Continue low-level waste shipments to DOE and commercial disposal sites.

OH-CL-02-D .....	1,947	5,940	12,934
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Metrics			
Remediation Waste Disposed (m <sup>3</sup> )			
Disposed .....	1,167	2,622	963
Low-level Waste (m <sup>3</sup> )			
Disposal - Shipped to DOE Disposal site .....	71	134	189
Key Milestones			
# Sonatol Laundry System evaluation complete (April 2000).			
# Initiate remote-handled transuranic waste shipment to interim storage site (January 2001).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-CL-03-D/Project Management, Site Support, & Maintenance**

The scope of this project is to provide technical support to the field work involved in the two related decontamination projects (King Avenue and West Jefferson sites), including surveillance and maintenance, project management and regulatory compliance.

- # Provide required core environmental activities and surveillance and maintenance activities.
- # Provide program management support, including regulatory compliance, quality assurance, public affairs, and project management.

OH-CL-03-D .....	1,593	2,868	3,200
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**OH-FN-01/Facility Shutdown**

The objective of this project is to complete all facility safe shutdown of the former Fernald production operations/facilities, eliminating the potential release of radiological and chemical contaminants to the soil and groundwater. Safe shutdown includes preparatory actions prior to decontamination and decommissioning, such as removal of process residues, waste, nuclear product inventories, disconnecting utilities, including non-radiological waste and general gross decontamination. The equipment and materials from the facilities will be removed and dispositioned in the on-site disposal facility and all facilities will be dismantled.

- # Continue safe shutdown of non-nuclear facilities.
- # Continue to treat and dispose of safe shutdown residues.
- # Disposition equipment in support of decontamination and decommissioning.

OH-FN-01 .....	33,866	28,451	30,979
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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Metrics			
Facility Deactivation .....	2	0	0
Low-level Waste (m <sup>3</sup> )			
Shipped to DOE Disposal Site (m <sup>3</sup> ) .....	0	1,130	0
Commercial Disposal .....	3,872	0	0

**OH-FN-02/Facility D&D**

The Facilities Decontamination and Decommissioning Project at Fernald is responsible for the decontamination and decommissioning of over 200 above grade structures of Operable Unit 3 (former Production Area and related building and equipment); design/engineering/planning work needed to support decontamination and decommissioning implementation; and management of debris resulting from decontamination and decommissioning. Debris management includes: containerization, off-site disposal of wastes unsuitable for disposal in the On-Site Disposal Facility, recycling and/or release of materials, delivery of debris to interim storage, and delivery of On-Site Disposal Facility bound debris to identified staging/queuing areas. Decontamination and decommissioning is performed as sub-projects called complexes, which represent a grouping of structures based typically on location/proximity, but in some instances on similarity of function.

- # Complete decontamination and decommissioning of Plant 5 Complex.
- # Continue decontamination and decommissioning of Plant 6 Complex and seven inter-connecting buildings that require deactivation, equipment removal and demolition.
- # Initiate the decontamination and decommissioning of the East Warehouse Complex.

OH-FN-02 .....	14,280	11,834	20,263
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Metrics			
Facility Decommissioning			
Cleanups .....	2	1	1
Low-level Waste			
Shipped to DOE Disposal Site (m <sup>3</sup> ) .....	0	715	643

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
Remediation Waste			
Disposed (m <sup>3</sup> ) . . . . .	0	0	192
Key Milestones			
# Maintenance/Tank Farm Certification of Construction Completion (March 2000).			
# Plant 6/East Warehouse Notice to Proceed (May 2000).			
# Pilot Plant Complex draft Implementation Plan to the Environmental Protection Agency (May 2001).			
# General Sump draft Implementation Plan to the Environmental Protection Agency (July 2001).			

**OH-FN-03/On-Site Disposal Facility**

The On-Site Disposal Facility (OSDF) project provides for disposal of the waste generated as a result of site remediation at Fernald. It will have seven disposal cells, and an eighth contingent cell, for acceptance of up to 2.5 million cubic yards of volume that meets established waste acceptance criteria. It also funds support facilities, receipt and placement of wastes and impacted materials, facility closure and post-closure monitoring and maintenance.

# Place permanent cap on Cell 1.

OH-FN-03 . . . . .	15,827	16,468	14,861
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Metrics			
Remediation Waste			
Disposed (m <sup>3</sup> ) . . . . .	252,521	152,920	0
Key Milestones			
# Place protective cover over clay liner for Cell 3 (December 1999).			
# Place a total of 152,900 m <sup>3</sup> (200,000 cubic yards) of impacted materials in Cell 1, 2, and 3 (September 2000).			
# Commence Cell 1 cap activities (October 2000).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-FN-04/Aquifer Restoration**

This project is designed to confine and extract uranium contamination from the Great Miami Aquifer, a sole source aquifer that underlies the Fernald site. The project includes Operable Unit 5 workscope such as completion of the remedy decision process and implementation of remedial actions to address contaminated groundwater and surface water. The Operable Unit 5 remedy includes sitewide management of storm water, wastewater, operation of sanitary sewage treatment system, and groundwater monitoring. The volumes of affected media are based upon cleanup levels finalized in the Operable Unit 5 Record of Decision.

- # Continue groundwater monitoring - plugging, abatement, sampling and reporting.
- # Continue extraction/injection operations and maintenance.
- # Continue wastewater treatment operations and maintenance.
- # Continue Advanced Waste Water Treatment Facility improvements.
- # Initiate Design for Pit Area and Plant 6 Area Extraction System.
  
- # Complete piping relocations construction/startup.
- # Install additional monitoring wells.

OH-FN-04 .....	23,123	27,223	23,058
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Metrics			
Remediation Waste			
Waste Disposed (m <sup>3</sup> ) .....	0	546	746
Key Milestones			
# Process two billion gallons of wastewater/groundwater (September 2000).			
# Process two billion gallons of wastewater/groundwater (September 2001).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-FN-05/Waste Pits Remediation Project**

The Waste Pits Remedial Action Project at Fernald consists of Waste Pits 1, 2, 3, 4, 5, and 6; the Burn Pit; the Clear Well; miscellaneous structures and facilities such as berms, liners, concrete pads, underground piping, utilities, railroad tracks, and fencing; and soil located within the Waste Pits Remedial Action Project boundary. The purpose of the Waste Pits Remedial Action Project is to safely remediate and permanently dispose of all waste material located within its boundary. Implementation of the selected remedy for the Waste Pits Remedial Action Project involves the excavation of waste materials from Waste Pits 1 through 6, the Clear Well, and the Burn Pit; treat this material to achieve compliance with the Waste Acceptance Criteria for a permitted commercial disposal facility; load material into railcars; transport railcars to permitted commercial disposal facility; and dispose of material off-site.

# Continue to process, ship and dispose of pit waste.

OH-FN-05 .....	58,885	39,638	49,849
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Metrics			
Remediation Waste			
Waste Disposed (m <sup>3</sup> ) .....	32,241	92,570	91,570
Key Milestones			
#	Process and ship 92,570 m <sup>3</sup> (approximately 112,000 tons) of waste pit material to permitted commercial disposal facility (September 2000).		
#	Process and ship 91,570 m <sup>3</sup> (approximately 109,000 tons) of waste pit material to permitted commercial disposal facility (September 2001).		

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-FN-06/Soils**

Project includes design and remediation of former Operable Unit 2 Waste Units and sitewide remediation of impacted soils and debris as defined in Operable Unit 5 (Flora and Fauna) Record of Decision. Soils remediation includes excavation and hauling of impacted soils to the On-Site Disposal Facility; excavation and hauling of above Waste Acceptance Criteria soils to designated transfer area for processing in dryer facility; excavation, treatment, characterization, and shipment of Resource Conservation and Recovery Act and other materials to designated offsite storage facility; and characterization of all soils remediation areas, including pre-design, excavation control, and precertification, and certification. Also included are Natural Resources restoration projects.

# Complete excavation of Southern Waste Units.

OH-FN-06 ..... 17,910 15,226 7,790

Metrics			
Remediation Waste			
Waste Disposed (m <sup>3</sup> ) .....	103	6,350	0
Key Milestones			
# Submit Pre-final Integrated Remedial Design package for Area 3A/4A to the Environmental Protection Agency (March 2000).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-FN-07/Silos**

Characterization and remediation of high specific activity wastes (residues from pitchblends and uranium ore processes) contained in Silos 1, 2, and 3. The final remediation phase for Silo 3 and likewise for Silos 1 and 2; following completion of the Silos 1 and 2 Record of Decision amendment, is planned to be a turnkey contracting approach where the vendor will be responsible for full-scale remediation facility design, construction, and integrated system testing. Remediation of all three silos involves retrieval of the material from the silos, treatment to stabilize waste, packaging, transportation and disposal at a permitted disposal facility.

- # Submit draft Record of Decision Amendment to the Environmental Protection Agency (regulatory milestone) for review, comment/approval.
- # Continue construction activities for Silos 1 and 2. Accelerated Waste Retrieval.
- # Conduct Silo 1 and 2 mockup testing of Accelerated Waste Retrieval System using Silo 4.

OH-FN-07 ..... 20,411      34,856      27,268

Metrics			
Low-Level Waste			
Shipped to DOE Disposal Site (m <sup>3</sup> ) .....	0	0	2,580
Key Milestones			
# Submit Soils 1 and 2 Draft Feasibility Study/Proposed Plan to Ohio and US Environmental Protection Agency for review, comment, and approval (February 2000).			
# Submit Draft Silo 3 Remedial Design Package to the Environmental Protection Agency (June 2000).			
# Submit Draft Record of Decision Amendment for Silos 1 and 2 to US Environmental Protection Agency for review, comment, and approval (December 2000).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-FN-08/Nuclear Materials**

The nuclear materials project at Fernald includes disposition of low enriched, normal and depleted uranium. This material is left from the shutdown of the processing facilities and storage of miscellaneous materials from other facilities. However, disposition of the materials to an off-site location is needed in order to effect the cleanup of the site. Current product inventory includes approximately 3,770 metric tons of remaining uranium materials.

- # Continue Nuclear Materials Safeguards and Security.
- # Continue warehousing, surveillance, handling and packaging and dispositioning of depleted, normal, enriched uranium material and waste.
- # Complete shipments of nuclear materials to the Oak Ridge Operations Office.

OH-FN-08 .....	3,712	10,015	12,796
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Metrics			
Nuclear Material Made Disposition Ready			
Ship Off-site - Uranium Other forms (kg Bulk) .....	1,949,283	1,886,350	429,800
Key Milestones			
# Ship 1,886,350 kg/bulk of nuclear material to the Oak Ridge Operations Office (September 2000).			
# Ship 429,800 kg/bulk of nuclear material to the Oak Ridge Operations Office (September 2001).			

**OH-FN-10/Mixed Waste**

This project will treat or process legacy and newly generated mixed waste to meet the requirement for off-site disposal, and includes scope for the disposition of hazardous waste generated during routine operations at Fernald. The scope includes stabilization, treatment of process residues, disposal of polychlorinated biphenyl contaminated waste, and treatment and disposal of hazardous solutions and chemicals, motor oil, and wastes not specifically covered in other projects.

- # Characterize all legacy mixed wastes and storage of mixed wastes awaiting characterization, treatment, or disposition.

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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# Complete chemical treatment project.

# Complete two shipments (batches) of liquid mixed low-level waste to the Toxic Substance Control Act (TSCA) incinerator in Oak Ridge, Tennessee.

OH-FN-10 ..... 4,563 3,541 7,986

Metrics			
Mixed Low-Level Waste			
Treatment (m <sup>3</sup> ) .....	0	232	215
Commercial Disposal (m <sup>3</sup> ) .....	0	108	108
Storage .....	518	427	212
Shipped to DOE Disposal Site .....	132	0	0
Low-level Waste			
Shipped to DOE Disposal Site .....	0	784	211
Key Milestones			
# Ship two batches of liquids to the Toxic Substance Control Act incinerator in Oak Ridge, Tennessee (September 2000).			
# Complete Chemical Treatment Project (September 2001).			

### OH-FN-11/Waste Management

This project encompasses the characterization, minimization, recycling, treatment, storage, and disposal of existing low-level and sanitary wastes at Fernald. It also includes disposition of uranium recently declared waste in December 1998. In addition, it includes program oversight and coordination of all organizations (including silo project) generating waste on-site. The key activities are the processing, packaging, staging, and shipping of low-level residues, soils, liquids, construction debris, process area scrap, and other miscellaneous materials.

- # Continue to provide senior and technical management, development and integration of division-wide policies and guidance for environmental compliance, safety and health, project controls, quality assurance, contracts, and acquisitions activities.
- # Continue coordination of inventory management, traffic management, low-level waste storage, and management of the container distribution center.

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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# Continue low-level waste disposition of lab sample returns, reduced low-level legacy waste disposition, and contaminated trash disposal.

# Complete disposition of low level asbestos inventory

OH-FN-11 ..... 17,069 14,274 24,185

Metrics			
Low-level Waste (m <sup>3</sup> )			
Storage .....	4,942	4,942	3,703
Treatment .....	0	0	2,909
Commercial Disposal .....	0	0	2,392
Shipped to DOE Disposal Site .....	3,055	3,369	1,897
Key Milestones			
# Dispose of 3,369 m <sup>3</sup> of currently inventoried low-level waste (September 2000).			
# Complete disposition of low-level asbestos inventory (September 2001).			

### OH-FN-12/Program Support & Oversight

This project includes the program management and oversight activities to support the remediation of Fernald. It also provides for regulatory oversight and ongoing litigation costs. Activities include project planning, monitoring, reporting and scheduling. Program support functions include space management, program services, human resources, finance, contract and asset management, records/information/total quality management. Oversight and program integration functions include programmatic cost and budget, program services, safety and health, project controls, emergency services, environmental compliance, and quality assurance.

# Submit to the Environmental Protection Agency the annual Resource Conservation and Recovery Act reports.

# Submit the annual Superfund Amendments and Reauthorization Act Title III, 312 Reports.

# Relocations of mail room and reproduction, receiving and Incoming Materials Inspection Area, Communication Center and fire alarms, and fire station.

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
OH-FN-12 .....	69,356	72,996	71,758

**Key Milestones**

- # Complete Phase II verification of Integrated Safety Management Systems (January 2000).
- # Award Fernald Environmental Management Project Management Contract (September 2000).

**OH-MB-01/Tritium Operations Transition**

This project was completed in FY 1998; however, some costs were not charged until FY 1999. The project primarily involved the off-loading of tritium from research and development units and shipping the recovered bulk gas off-site.

OH-MB-01 .....	252	0	0
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**OH-MB-02/Main Hill Tritium**

This project provides for the safe shutdown and removal or decontamination of tritium contaminated equipment, duct work, and chemical mixtures in four buildings, so they may be released for reuse or demolished at the Miamisburg site.

- # Complete decontamination of SW Building, Areas E and F, and the New Cave Area.
- # Complete equipment disposition of SW Building Areas B and C, and R Building non-rad area.
- # Complete containment system for SW Building Old Cave Area.

OH-MB-02 .....	22,810	30,295	33,768
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**Key Milestones**

- # Complete 50 percent of containment system for Semi-Works Old Cave in Semi-Works Area A (September 2000).
- # Complete containment system for Semi-Works Old Cave in Semi-Works Area A (September 2001).
- # Complete final characterization and removal of equipment in Semi-Works New Cave Area (September 2001).

**OH-MB-03/Waste Activities**

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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This project focuses on the disposition of low-level, mixed low-level and transuranic wastes. Disposition of legacy low-level and mixed waste was completed in FY 1999.

# Maintain safe storage of transuranic waste for future disposal.

# Dispose, off-site, low-level and mixed waste from other projects' remediation activities.

OH-MB-03 ..... 14,662 16,144 15,790

Metrics			
Remediation Waste			
Disposed (m <sup>3</sup> ) .....	3,556	706	10,366
Transuranic Waste			
Storage (m <sup>3</sup> ) .....	247	247	247
Mixed Low-Level Waste			
Treatment (m <sup>3</sup> ) .....	10	0	0
Commercial Disposal (m <sup>3</sup> ) .....	19	0	0
Shipped to DOE Disposal Site (m <sup>3</sup> ) .....	1	0	0
Low-level Waste			
Shipped to DOE Disposal Site .....	4,417	2,407	3,338
Commercial Disposal .....	3,928	0	0
Nuclear Material Stabilization			
Made Disposition Ready Pu Metal/Oxides/Other (Cont) .....	2	0	0
Made Disposition Ready On-site - U Other Forms (Kg Bulk) .....	7	0	0
Made Disposition Ready Ship Off-site - U Other Forms (Kg Bulk) ..	0	0	0
Made Disposition Ready - Other Forms of NM (Cont) .....	9	2	0
Key Milestones			
# Complete disposition of excess Resource Conservation and Recovery Act chemicals (September 2000).			
# Complete disposition of all remediation waste generated in FY 2001 (September 2001).			

### OH-MB-04/Main Hill Rad

The Main Hill Rad project at Miamisburg involves the deactivation, decommissioning and demolition of six buildings/structures. The buildings identified for demolition are the research, semi-works, cafeteria, semi-works filter bank, the E&E Annex (environmental lab), and the H building (laundry and change room).

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
# Complete demolition of building E&E Annex.			
# Continue decontamination of H building.			
OH-MB-04 .....	3,187	1,475	1,290

Metrics			
Facility Deactivation .....	0	1	0
Facility Decommissioning			
Assessments .....	0	1	0
Cleanups .....	0	0	1
Key Milestones			
# Demolish Building E-Analytical Labs and Annex to slab level (September 2000).			
# Complete decommissioning of Building E-Analytical Labs and Annex (September 2001).			

### OH-MB-05/Main Hill Non Rad

This project provides for the evaluation, deactivation and release or demolition of over 36 buildings/structures located primarily on the Main Hill. These buildings are not on the Exit Plan Critical Path, and can, therefore, be completed in parallel with other site activities.

- # Deactivate buildings B, 60, and 68.
- # Complete decommissioning assessments for buildings 47 and 60.
- # Complete cleanup of building 60.

OH-MB-05 .....	3,006	3,515	2,786
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Metrics			
Facility Deactivation .....	3	1	3
Facility Decommissioning			
Assessments .....	5	1	2
Cleanups .....	2	2	1
Key Milestones			
# Complete M-Building On Scene Coordinator Report (September 2000).			
# Complete B-Building On Scene Coordinator Report (June 2001).			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**OH-MB-06/Special Metals/Plutonium Processing Hill**

This project involves the deactivation, decommissioning, and decontamination or demolition of 22 building/structures, one air emission stack and site restoration.

- # Deactivate buildings 38 and 95.
- # Complete decommissioning assessment of building 95.
- # Complete assessment of potential release site 266.

OH-MB-06 .....	1,248	5,463	4,455
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Metrics			
Facility Deactivation .....	2	1	2
Facility Decommissioning			
Assessments .....	5	1	1
Cleanups .....	4	1	0
Release Sites			
Assessments .....	0	0	1
Key Milestones			
# Building 88 decommissioning complete (September 2000).			
# Complete assessment of potential release site 266-Area 8, thorium contaminated soils from Area 1 and 9 (September 2001).			

**OH-MB-07/Test Fire Valley**

The purpose of this project is to perform safe shutdown and remediation activities on 67 buildings/structures at the Miamisburg site for release for local industrial use or demolition depending on the cost or need for reuse. The most radiologically contaminated buildings will be scheduled earliest for assessment, decommissioning and cleanup.

- # Complete deactivation of Waste Disposal building.
- # Complete interior demolition of Waste Disposal annex (phase I); perform decommissioning assessment and interior decontamination, and equipment disposition of Waste Disposal building (phase II); and develop/approve Waste Disposal building work plans for removal of contaminated duct work and High-Efficiency Particulate Air filters (phase III) and for structural demolition (phase IV).

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
# Complete decommissioning assessment of HH building.			
# Complete decommissioning cleanup of Central Operational Support building.			
OH-MB-07 .....	3,764	5,720	9,413

Metrics			
Facility Deactivation .....	1	1	1
Facility Decommissioning			
Assessments .....	4	1	1
Cleanups .....	3	0	1
Key Milestones			
# Building Waste Disposal - complete project plan (Phase II) for interior demolition (June 2000).			
# Building Waste Disposal - complete interior demolition of Building Waste Disposal Annex Phase I (September 2001).			

**OH-MB-08/Soils**

This project encompasses four types of activities: further assessment (43 sites); Comprehensive Environmental Response, Compensation, and Liability Act removal actions (25 sites); groundwater treatment operation and maintenance (4 sites) and the Comprehensive Environmental Response, Compensation, and Liability Act site closeout (risk assessment, Record of Decision, and Finding of Suitability to Transfer). The purpose is to remove the threat from radionuclide, petroleum, and solvent contamination from the site. Groundwater treatment operation and maintenance includes the operation of two systems (pump and treat and air sparge/soil vapor extraction) and conducting quarterly groundwater monitoring.

- # Complete assessments and cleanups on nine soil Potential Release Sites and complete two additional release site assessments and three groundwater sites assessments.
- # Continue groundwater remediation.

OH-MB-08 .....	5,317	5,776	4,458
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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Metrics			
Release Sites			
Assessments .....	2	5	14
Cleanups .....	0	6	9
Key Milestones			
# Complete potential release site 99 On Scene Coordinator Report (April 2000).			
# Complete potential release site 276 On Scene Coordinator Report (March 2001).			

**OH-MB-09/Facility Operations & Maintenance**

The project scope ensures the Miamisburg site’s facilities, infrastructure, heavy duty equipment and utilities are maintained in a manner conducive to the ultimate site disposition while ensuring the environment, safety and health of the site’s workers and the local community. These activities are essential to maintain this site in a minimum safe condition.

- # Maintain compliance with Limiting Condition of Operation.
- # Continue 100 percent completion of Risk Assessment Codes Maintenance Service Requests.
- # Continue efforts in reduction of energy use.
- # Reroute utilities for five buildings (51, 61, B, OSW and WD) in preparation for demolition or transfer to the City of Miamisburg.

OH-MB-09 .....	25,158	23,924	18,165
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**OH-MB-10/Regulatory Oversight and Site Support**

This project contains all costs associated with State and Federal environmental protection agencies oversight of the site remediation activities; legal expenses; and Defense Contract Audit Agency audit support.

- # Continue with regulatory oversight support for the site regulators as well as fulfilling all legal, tax and Defense Contract Audit Agency audit cost liabilities.

OH-MB-10 .....	3,452	4,690	4,228
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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Key Milestones
# Complete Phase II Verification of Integrated Safety Management Systems (September 2000).

Total, Ohio .....	<u>381,040</u>	<u>395,772</u>	<u>417,622</u>
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## Explanation of Funding Changes from FY 2000 to FY 2001

FY 2001 vs.  
FY 2000  
(\$000)

<b>OH-AB-01/Remediation</b>	
# Funding level is essentially stable. . . . .	670
<b>OH-AB-02/Project Management, Site Services, ES&amp;H</b>	
# Funding level is essentially stable . . . . .	232
<b>OH-CL-02-D/West Jefferson Site Decontamination (Defense Funded)</b>	
# Increase is due to initiation of building JN-1 high-bay decontamination and initiation of transuranic waste to interim offsite storage location. . . . .	6,994
<b>OH-CL-03-D/Project Management, Site Support and Maintenance</b>	
# Increase is due to shift of funding for leveled activities from the Non-Defense account to the Defense account . . . . .	332
<b>OH-FN-01/Facility Shutdown</b>	
# Increase is due to the treatment and disposition of safe shutdown equipment . . . . .	2,528
<b>OH-FN-02/Facility D&amp;D</b>	
# Increase is due to the continuation of decontamination and decommissioning of a major building complex (Plant 6) and the contract award for decontamination and decommissioning of three additional complexes. . . . .	8,429
<b>OH-FN-03/On-Site Disposal Facility</b>	
# Decrease is due to the suspension of all On-Site Disposal Facility waste placement activities from PBS OH-FN-06 in FY 2001 and the reprioritization within the closure account. . . . .	-1,607
<b>OH-FN-04/Aquifer Restoration</b>	
# Decrease is due to the completion of project infrastructure; only operation and maintenance are required in FY 2001. . . . .	-4,165
<b>OH-FN-05/Waste Pits Remediation Project</b>	
# Increase is due to suspension of activities from PBSs OH-FN-06 and OH-FN-03 to concentrate on the processing of waste pit material. . . . .	10,211
<b>OH-FN-06/Soils</b>	
# Decrease is due to the suspension of all soils activities to concentrate on PBS OH-FN-05 material in FY 2001 and the reprioritization within the closure account. . . . .	-7,436
<b>OH-FN-07/Silos</b>	

FY 2001 vs. FY 2000 (\$000)
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# Decrease is due to award and initiation of Accelerated Waste Retrieval and Silo 3 contracts in FY 2000 .....	-7,588
<b>OH-FN-08/Nuclear Materials</b>	
# Increase is due to increased disposition activities of nuclear material quantities. ....	2,781
<b>OH-FN-10/Mixed Waste</b>	
# Increase is due to increased disposition activities of mixed waste quantities. ....	4,445
<b>OH-FN-11/Waste Management</b>	
# Increase is due to increased disposition activities of low-level waste quantities. ....	9,911
<b>OH-FN-12/Program Support &amp; Oversight</b>	
# Decrease is due to higher efficiencies, utility use, and austerity measures. ....	-1,238
<b>OH-MB-02/Main Hill Tritium</b>	
# Increase is due to acceleration of tritium decontamination in T building and SW building Old Cave Area E. ....	3,473
<b>OH-MB-03/Waste Activities</b>	
# Decrease is due to costs efficiencies in commercial disposal of low-level waste. ....	-354
<b>OH-MB-04/Main Hill Rad</b>	
# Decrease is due to reduced demolition work activities on the E/E Annex building. ....	-185
<b>OH-MB-05/Main Hill Non Rad</b>	
# Decrease is due to completion of M building demolition in FY 2000. ....	-729
<b>OH-MB-06/Special Metals/Plutonium Processing Hill</b>	
# Decrease is due to completion of characterization work on building 38 in FY 2000. ....	-1,008
<b>OH-MB-07/Test Fire Valley</b>	
# Increase is due to accelerating the deactivation, decontamination, and demolition of WD building. ....	3,693
<b>OH-MB-08/Soils</b>	
# Decrease is due to increased assessment activities in FY 2000 for Potential Release Site 66 thorium and polonium contamination. ....	-1,318
<b>OH-MB-09/Facility Operations &amp; Maintenance</b>	
# Decrease is due to reallocation of resources to critical path activities and a decrease in site overhead costs. ....	-5,759
<b>OH-MB-10/Regulatory Oversight and Site Support</b>	

FY 2001 vs. FY 2000 (\$000)
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# Decrease is due to completion of contaminated records review and reduction of costs for State and Federal regulatory oversight .....	-462
Total Funding Change, Ohio .....	<u>21,850</u>

# Rocky Flats

## Mission Supporting Goals and Objectives

### Program Mission

The mission of the Defense Environmental Management, Site Closure program, carried out by the Rocky Flats Field Office, is to manage the site waste and materials and their removal from the site, and to clean up, close, and convert the site to beneficial use in a manner that is safe, environmentally and socially responsible, physically secure, and cost-effective.

### Program Goal

The goal for the Rocky Flats Environmental Technology Site is to achieve site closure by 2006.

### Program Objectives

In May 1999, the contractor submitted the first baseline reflecting closure by 2006, which replaced the previous baseline of 2010 closure. Since its submittal, DOE has been working to evaluate the 2006 closure project baseline, and an independent contractor performed a confidence review. Based on these reviews, the 2006 closure project baseline was subsequently revised by the management and integration contractor in October 1999. The FY 2000 activities identified within the baseline have been adopted as the basis for the FY 2000 approved work plan. FY 2000 marks the first year of project execution consistent with a 2006 baseline. This budget request is the first to reflect project details consistent with a 2006 closure baseline.

While the project end-date has been accelerated by nearly 4 years, the overall strategy for the closure of Rocky Flats has not changed significantly. The cleanup level and the land use assumptions for example, remain consistent with those agreed to in the Rocky Flats Cleanup Agreement. The sequencing and specific schedules of the projects comprising the 2006 Closure Project Baseline have been adjusted as needed to allow the early closure of the site.

The details of this baseline are embodied in the Rocky Flats *Accelerating Cleanup: Paths to Closure* plan, which contains 29 projects that are described in the project baseline summaries; 21 of these projects are active in FY 2001 and beyond.

The Department recently completed negotiations with the contractor for a follow-on contract to complete the closure project. The 2006 closure project baseline will be updated to reflect the terms and conditions of the closure contract. Following a Departmental review, the entire life-cycle baseline will be adopted and placed under change control.

Because the revised baseline will be premised on flat funding through project completion, stable funding for the life of the site cleanup mission is a critical element, as is the DOE's ability to overcome complex-wide barriers and to facilitate resolution of national issues of complex-wide integration for off-site shipment of special nuclear materials and radioactive waste for disposition.

In short, availability of receiver sites is essential to achieving closure by FY 2006, including availability of the Waste Isolation Pilot Plant for transuranic and residue wastes, a DOE site to accept plutonium metals and oxides, as well as some residues, and DOE and/or commercial facilities for disposal of low-level and mixed low-level waste.

The critical path that supports closure of Rocky Flats by 2006 requires:

### **Stabilization of Special Nuclear Material and Residues**

The early completion of stabilization and deactivation activities is necessary to begin building demolition as soon as possible and cleanup of the affected areas. The completion of these activities can make funds currently used for surveillance and maintenance available for progress towards site closure.

The FY 2010 baseline schedule planned for plutonium metals and oxides to be stabilized, placed in DOE-STD-3013 containers and shipped to the Savannah River Site K-Area from FY 2002-FY 2004, consistent with the Record of Decision for the Storage and Disposition of Weapons-Usable Fissile Material Programmatic Environmental Impact Statement. The revised baseline shows acceleration of these and other activities so that all special nuclear material is removed by FY 2002.

Special nuclear material stabilization projects will focus on the safe storage, processing, packaging, and off-site shipment of all special nuclear material at Rocky Flats. This includes approximately 2,300 containers of plutonium metals and oxides, 102,500 kilograms of plutonium residues, and 24,000 liters of plutonium solutions.

### **Off-Site Shipment of Special Nuclear Material and Stabilized Residues**

To enable cleanup by FY 2006, plutonium metals and oxides must be removed from the site by FY 2002, 2 years earlier than planned in the 2010 baseline. The accelerated movement of materials provides for significant mortgage reduction savings in security and nuclear safety costs, and allows the decommissioning of the nuclear facilities to begin 2 years earlier. The Department is performing significant facility modifications at the Savannah River Site consistent with the recently issued Record of Decision for storage of excess plutonium in order to accommodate this transfer. In addition, the 2006 baseline plans for most plutonium residues to be stabilized and repacked by FY 2002, certified, and shipped to the Waste Isolation Pilot Plant at a consistent rate so all residues are removed by FY 2005.

A key activity within the 2006 baseline is the closure of the protected area by October 31, 2002. For this plan to be carried out, a procedure for the termination of safeguards and security at Rocky Flats is being developed. Until this procedure is developed and accepted, the positive budget impacts of the accelerated closure of the protected area are not clear.

### **Facility Disposition after Special Nuclear Material is Removed**

The deactivation program will focus only on major plutonium and industrial facilities that would benefit from significant mortgage reduction or that require deactivation in preparation for decommissioning activities.

The 2010 baseline detailed that major nuclear facilities decommissioning could take 5 to 7 years, and these activities dominated the later part of the site critical path schedule. The schedule for these activities have been accelerated in the 2006 baseline. For example, the 2010 baseline reflected decommissioning of the Building 779 Cluster by June 30, 2000. However, the site incentivized the early demolition of this facility, and the site and contractor completed the demolition of Building 779 in January 2000, months ahead of schedule. This improved execution and re-planning will not only improve the cost and schedule estimates for the decommissioning effort, but will allow for examination of technologies needed to accelerate the overall closure schedule.

In order for Rocky Flats to meet the accelerated closure goal, facilities will need to undergo decommissioning as soon as possible after the completion of deactivation. A facility disposition path has been developed by the contractor for each of the building cluster closure projects. This approach integrates and coordinates the deactivation, decontamination, and demolition activities. The schedules for facility disposition are aggressive, and decommissioning needs to be conducted in parallel with the deactivation phase within each cluster. This improvement is essential to avoid sustained high mortgage costs of the plutonium facilities and to proceed to construction of the closure cap.

### **Closure Cap Construction**

The 2006 closure baseline reflects some major changes that support acceleration of closure activities. One major shift is elimination of the 300 Area cap, based on the assumption that there will be minimal under building contamination in that area. The 2006 baseline also presents a shift in strategy on the type of cap over the 700 Area. This shift shows an evapo-transpiration cap rather than a typical Resource Conservation and Recovery Act capillary break type cap. This proposed cap would take one year to construct versus two years. These shifts will yield a lifecycle savings of approximately \$26,000,000 but are subject to regulator approval.

### **Safe Storage, Treatment and Disposal of Nuclear Waste**

The waste management project will focus on safe, compliant, and cost-effective waste minimization, storage, treatment, and disposal of low-level, mixed low-level, transuranic, mixed transuranic, hazardous, and sanitary waste. The project's near-term goals involve continuing treatment of hazardous and sanitary waste, off-site shipment and disposal of low-level waste, and off-site treatment and disposal of mixed low-level waste. The FY 2006 baseline shows some enhancements, including integration of waste characterization activities, and maximizing direct shipping of waste from the point of generation. Selection of a disposal location for mixed waste, particularly waste greater than 10 nanocuries per gram must take place prior to the end of FY 2000 to allow adequate time for the necessary preparatory activities to ship waste. Certification of transuranic and mixed transuranic waste, and continued shipments to the Waste Isolation Pilot Plant in New Mexico are critical to meeting the closure goals for FY 2006.

### **Cleanup and Stewardship of Contaminated Area**

The Rocky Flats environmental restoration program activities will result in cleanup of a total of 130 cleanup sites (e.g., individual hazardous substance site, potential areas of concern, under building contamination, plumes, final covers) and the decommissioning of over 750 facilities and buildings over the life of the site cleanup project. There is still some uncertainty regarding final cleanup activities. One major area of uncertainty is whether the current cleanup standard reflected in the Rocky Flats Cleanup Agreement will remain the final standard. Additionally, as the 2006 baseline reflects the deferral of most remediation activities until late in the closure schedule, there is some uncertainty about the ability of regulatory agencies to meet expected review and approval schedules. These issues will require continued negotiations with regulators and the public. Remediation activities in FY 2001 are minimal.

### **Focus Management and Workers on Progress**

Projectization is intended to focus management attention on accomplishing measurable progress towards site closure. Progress metrics have been established for critical projects. These metrics establish quantitative annual targets (as a percentage of the total life-cycle project requirements) from which contractual performance measures are developed and tracked to assess progress toward site closure. The project approach reinforces the commitment to accelerate the cleanup of Rocky Flats by implementation of a measurable and cost-effective program. Rocky Flats and the contractor have made great progress in implementing this management approach.

Accelerated progress in tearing buildings down through improved productivity, contract incentives, and strengthened project management over the last two years provides confidence that continued improvements in these and other areas can help achieve the goal. This budget request reflects the FY 2006 baseline as it is understood today. Continued evaluation of the baseline will enhance DOE's understanding and ability to meet the commitment to 2006 closure of Rocky Flats. It is likely that the pending baseline revision and initiation of the closure contract will result in additional enhancements in the Department's ability to achieve accelerated closure, including a simplified subproject structure, a streamlined management approach, and enhanced project reporting requirements.

### **Performance Measures**

Performance measures are provided at an aggregate level after the Funding by Site table, as well as at a project level in the Detailed Program Justification.

The Executive Budget Summary and the Metrics Summary provide a consistent set of high level performance measures. The more detailed project-level justification provides a description of significant activities for each project including detailed project performance measures and key project milestones, as applicable.

## **Significant Accomplishments and Program Shifts**

- # Completed scheduled shipments of special nuclear material (Pits) to Oak Ridge and Pantex (FY 1999).
- # Stabilized or repackaged 30,864 kilograms (FY 1999) and 41,635 kilograms (FY 2000) of plutonium-bearing residues.
- # Completed draining and removal of 13 liquid systems (FY 1999) and 14 liquid systems (FY 2000) from Building 771.
- # Tap, drain, and remove remaining liquid process systems in Building 771; and dismantle, size reduce, and package gloveboxes, tanks, and other equipment for shipment (FY 2001).
- # Completed draining of all areas (12 total) in Building 371 (FY 1999).
- # Disposed of 11,223 m<sup>3</sup> of low-level/mixed low-level waste to the Nevada Test Site and Envirocare in Utah (FY 1999). Dispose of 4,050 m<sup>3</sup> of low-level waste and 2,538 m<sup>3</sup> of mixed low-level waste off-site (FY 2000).
- # Removed 133 gloveboxes from Building 779 (FY 1999).
- # Demolished Building 729 (FY 1999) and Building 779 (FY 2000).
- # Dispositioned 60,000 (FY 1999) and 90,000 (FY 2000) excess property items.
- # Installed Plutonium Stabilization and Packaging System in Building 371 (FY 1999).
- # Shipped 65 m<sup>3</sup> of transuranic waste to the Waste Isolation Pilot Plant (FY 1999) and 1,000 m<sup>3</sup> in FY 2000.
- # Dispositioned 4,000 waste chemical containers (FY 1999).
- # Remediated two environmental sites (FY 1999).
- # Dispositioned 500 items (FY 1999) and 600 items (FY 2000) of classified matter.
- # Each year, ship 90 containers of scrub alloy (FY 1999 and FY 2000) to the Savannah River Site, completing the scrub alloy shipments.
- # Operate Plutonium Stabilization and Packaging System to stabilize/repackage 720 containers (FY 2000) and 960 containers (FY 2001) of plutonium metals and oxides.
- # Ship 760 containers of metals and oxides (FY 2000) and 1,099 containers (FY 2001) to the Savannah River Site.
- # Completed building upgrades identified in the Defense Nuclear Facilities Safety Board Recommendation 94-3, satisfying requirements identified in the 94-3 Integrated Program Plan (FY 1999).
- # In Building 881, 865, and 883 clusters, complete safe shutdown of approximately 22 rooms (FY 2000).

## Funding Schedule

	FY 1999 Current Appropriation	FY 2000 Current Appropriation	FY 2001 Request
HQNP-SI01-CL / Security Investigations . . . . .	1,652	1,278	1,252
RF-001 / Buffer Zone Closure Project . . . . .	13,081	9,863	13,978
RF-002 / Waste Management Project . . . . .	59,351	66,433	110,252
RF-003 / Remediation Waste & Contingent Storage Project . . . . .	1	0	0
RF-004 / Special Nuclear Material Capital Support Project . . . . .	2,864	134	0
RF-006 / Special Nuclear Material Consolidation Project . . . . .	1,319	719	36
RF-008 / Plutonium Metals and Oxides Stabilization . . . . .	18,127	17,557	11,640
RF-009 / Plutonium Solid Residue Stabilization Project . . . . .	70,836	93,005	42,000
RF-010 / Plutonium Liquid Stabilization . . . . .	4,441	90	0
RF-011 / Uranium Disposition Project . . . . .	788	0	0
RF-012 / Special Nuclear Material Shipping Project . . . . .	6,692	9,483	16,510
RF-013 / Closure Caps Project . . . . .	30	84	412
RF-014 / Industrial Zone Closure Project . . . . .	16,614	14,817	19,668
RF-015 / Miscellaneous Production Zone Cluster Closure Project . . .	11,648	7,292	9,996
RF-016 / Building 371 Cluster Closure Project . . . . .	20,918	33,903	32,478
RF-017 / Building 707/750 Cluster Closure Project . . . . .	20,826	24,366	25,667
RF-018 / Building 771/774 Cluster Closure Project . . . . .	39,308	34,249	28,209
RF-019 / Building 776/777 Cluster Closure Project . . . . .	14,719	27,159	18,561
RF-020 / Building 881 Cluster Closure Project . . . . .	4,776	4,933	5,397
RF-021 / Building 991 Cluster Closure Project . . . . .	1,599	1,471	1,502
RF-022 / Building 779 Cluster Closure Project . . . . .	36,935	5,321	0
RF-023 / Utilities and Infrastructure Project . . . . .	41,838	40,792	45,880
RF-024 / Safeguards and Security Project . . . . .	34,872	34,946	39,491
RF-025 / Infrastructure Improvement / Replacement Project . . . . .	14,429	3,853	0
RF-027 / Analytical Services Project . . . . .	7,597	7,110	10,541
RF-029 / Rocky Flats Field Office - DOE Management . . . . .	17,753	16,985	18,800
RF-030 / Kaiser-Hill Project Management . . . . .	104,031	127,623	126,740
RF-034 / Management Project . . . . .	90,155	81,209	85,665
<b>Total, Rocky Flats . . . . .</b>	<b>657,200</b>	<b>664,675</b>	<b>664,675</b>

**Environmental Management/Defense  
Facilities Closure Projects/Site Closure/  
Rocky Flats**

**FY 2001 Congressional Request**

## Funding by Site

(dollars in thousands)

	FY 1999	FY 2000	FY 2001	\$ Change	% Change
Rocky Flats Environmental Technology Site . . . . .	637,795	646,412	644,623	-1,789	-0.3%
Rocky Flats Field Office . . . . .	19,405	18,263	20,052	1,789	9.8%
<b>Total, Rocky Flats . . . . .</b>	<b>657,200</b>	<b>664,675</b>	<b>664,675</b>	<b>0</b>	<b>0.0%</b>

## Metrics Summary

	FY 1999	FY 2000	FY 2001
Remedial Action/Release Site			
Assessments . . . . .	11	0	1
Cleanups . . . . .	2	0	0
Facility Decommissioning			
Assessments . . . . .	63	0	10
Cleanups . . . . .	10	21	10
Nuclear Material Stabilized			
Plutonium Residue (kg/bulk) . . . . .	30,864	41,635	16,433
Transuranic Waste			
Shipped to WIPP for Disposal (m <sup>3</sup> ) . . . . .	65	1,000 <sup>a</sup>	2,000
Mixed Low-Level Waste			
Treatment (m <sup>3</sup> ) . . . . .	5,537	2,538	1,058
Disposal (m <sup>3</sup> ) . . . . .	5,537	2,538	1,058

## Site Description

The Rocky Flats Environmental Technology Site is located near Denver, Colorado, on about 11 square miles at the base of the Rocky Mountains. The Rocky Flats Plant was established by the Atomic Energy Commission in 1951 as one of seven production plants in the United States Weapons Complex. The Rocky Flats Plant played an integral part in the Nation's nuclear defense. Its mission was to manufacture nuclear weapons components from materials such as plutonium, beryllium, and uranium. When operations ceased, large amounts of plutonium, plutonium compounds, and metallic residues remained in the production lines, tanks, and process furnaces at

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<sup>a</sup> This volume reflects planned shipments within the 2006 Closure Project Baseline, as of October 1999. However, due to activities associated with the Resource Conservation and Recovery Act Part B Permit, actual shipments in FY 2000 are estimated at 703 m<sup>3</sup>.

various facilities at the site. Significant volumes of hazardous and radioactive waste generated during production operations were also present throughout numerous buildings.

In 1991, the Rocky Flats Plant transitioned to a new mission: cleaning up contamination and waste from its past activities and transitioning its facilities to cleanup in a manner that is safe, environmentally and socially responsible, physically secure, and cost-effective. It was at this time that the Rocky Flats Plant became the Rocky Flats Environmental Technology Site.

The Rocky Flats Environmental Technology Site's cleanup and closure activities are currently organized into 29 Project Baseline Summaries each including a detailed life-cycle work scope, schedule, and cost estimate built from over 30,000 individual work elements which are integrated into a single Critical Path schedule.

The Site is managed by a performance-based management and integration contractor, whose contract was established consistent with the 1993 Government Performance and Results Act, which requires program goals and measures to monitor contractor progress toward those goals. The integrating management contractor plans and integrates work activities, manages subcontractors in performing work, and provides support functions, including quality assurance and site safety program direction. The Rocky Flats Field Office manages the integrating management contract, including setting and verifying performance goals, makes program decisions, and provides local oversight, public and regulatory interface for on-site work activities. A DOE Headquarters closure team provides intersite coordination on material shipment, disposition decisions, and activities related to site closure. Award and incentive fees have been established by the DOE to motivate the contractor.

## Detailed Program Justification

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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The Rocky Flats Environmental Technology Site is managed through an incentivized management and integration contract, with fixed-price subcontracts, to assure the most cost-efficient service to the Government. The scope planned for FY 2001 has been reviewed and is appropriate to meet the goals of the site as outlined in the *Accelerating Cleanup: Paths to Closure* plan. The funds requested for FY 2001 are appropriate to perform the activities based on historical costs.

### HQNP-SI01-CL/Security Investigations

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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The Security Investigation program provides for initial investigations and reinvestigations for DOE contractors and other non-Federal personnel whose official duties require access to classified matter or special nuclear materials. The goal of the Security Investigation program is to reduce the number and levels of DOE access authorizations to a minimum consistent with operating requirements.

# Complete 472 initial investigations and 356 reinvestigations. No prior year backlogs are anticipated in FY 2001.

HQNP-S101-CL .....	1,652	1,278	1,252
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**RF-001/Buffer Zone Closure Project**

The Buffer Zone Closure Project includes remedial action activities resulting in the closure of facilities and individual hazardous substance sites in the Buffer Zone and prevents off-site migration of contaminants. This project includes: operation of groundwater and surface water monitoring stations; design, construction, and operation of groundwater containment and treatment systems; remediation of individual hazardous substance sites/potential areas of contamination; operation of the firing range, and continuing landlord functions for the Building 130 cluster; and decontamination and decommissioning activities. The completion of the Buffer Zone Project will decrease human and environmental risk.

- # Continue surveillance and maintenance activities.
- # Maintain the site dams, solar ponds, and watersheds in a safe operating condition.
- # Continue maintenance of in-situ groundwater Plume Remedial Action Systems.
- # Continue regrade and revegetation of Trenches T-5, T-6, T-8, T-9, T-10, and T-11.

RF-001 .....	13,081	9,863	13,978
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Metrics			
Remedial Action/Release Site			
Assessments .....	10	0	0
Cleanups .....	2	0	0

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-002/Waste Management Project**

The Waste Management Project includes all activities that support the treatment, storage, and disposal of all wastes currently in the inventory and projected to be generated from site closure projects. Specific waste types include: low-level waste, mixed low-level waste, transuranic waste, transuranic mixed waste, hazardous waste, and sanitary/uncontaminated waste. The scope of the project includes safe and compliant management on-site in new and existing storage facilities; safe and compliant treatment, including construction of liquid waste treatment upgrade, of mixed wastes at on-site and off-site locations; and safe and compliant disposal at approved off-site repositories.

- # Ship 7,696 m<sup>3</sup> waste for disposal and recycling, specifically: 4,638 m<sup>3</sup> of low-level waste, 1,058 m<sup>3</sup> of low-level mixed waste, and 2,000 m<sup>3</sup> of transuranic waste.
- # Ship 2,109 tons of sanitary waste for disposal.
- # Continue to reduce chemical storage areas on the site.
- # Complete processing of 100 percent of waste water received.
- # Complete construction of additional fixed transuranic waste loading facility in Building 440.
- # Continue compliant storage.

RF-002 .....	59,351	66,433	110,252
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Metrics			
Remedial Action/Release Site			
Assessments .....	0	0	1
Transuranic Waste			
Storage (m <sup>3</sup> ) .....	3,963	7,203	7,747
Shipped to WIPP for Disposal (m <sup>3</sup> ) .....	65	1,000	2,000
Mixed Low-Level Waste			
Treatment (m <sup>3</sup> ) .....	5,537	2,538	1,058
Storage (m <sup>3</sup> ) .....	5,822	3,587	6,583
Commercial Disposal (m <sup>3</sup> ) .....	5,537	2,538	1,058
Low-level Waste			
Storage - Total (m <sup>3</sup> ) .....	12,208	13,344	40,883
Shipped to DOE Disposal Site (m <sup>3</sup> ) .....	5,686	4,050	4,638

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
<b>Key Milestones</b>			
# Ship 4,050 cubic meters of low-level waste for disposal (September 2000)			
# Ship 2,538 cubic meters of mixed low-level waste for disposal (September 2000)			
# Ship 1,000 cubic meters of transuranic waste for disposal (September 2000)			
# Ship 1,058 cubic meters of mixed low-level waste for disposal (September 2001).			
# Ship 4,638 cubic meters of low-level waste for disposal (September 2001).			
# Ship 2,000 cubic meters of transuranic waste for disposal (September 2001).			

**RF-003/Remediation Waste and Contingent Storage Project**

The Remediation Waste and Contingent Storage Project provides the resources necessary for the development of a new low-level/low-level mixed waste containerized storage facility for storage of remediation wastes. If needed, this facility will provide capacity and capability to store, stage, and ship the large volumes of remediation waste anticipated to be generated from the decontamination, decommissioning, and demolition of site facilities, as well as from restoration activities associated with contaminated areas at the site. The Department of Energy has been granted designation for a Corrective Action Management Unit for bulk and containerized storage of these remediation wastes at the Rocky Flats Environmental Technology Site by the Colorado Department of Health. The Corrective Action Management Unit is being planned as an option to facilitate site closure and to serve as a storage contingency.

# No activity.

RF-003 .....	1	0	0
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-004/Special Nuclear Material Capital Support Project**

This project responds to Defense Nuclear Facilities Safety Board Recommendation 94-3, which requires that the Building 371 facility be upgraded to withstand defined natural phenomena hazards (seismic events, fire, tornado). Specific upgrades have been identified and satisfied in the 94-3 Integrated Program Plan, the Authorization Basis document and its implementation plan. The upgrades will minimize the safety hazards associated with the storage of plutonium in Building 371. The predominant hazards to be minimized are fire and seismic events. All currently planned upgrades will be completed in FY 2000. Additional upgrades may be required should the plans for off-site shipment not be completed as scheduled.

# No activity.

RF-004 .....	2,864	134	0
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**RF-006/Special Nuclear Material Consolidation Project**

The purpose of this project is to manage the intra-site transport of special nuclear material metals, oxides, liquids, and residues between facilities as necessary for mortgage reduction and interim storage and staging of these materials for processing or off-site shipment. Consolidation of these materials will also be accomplished through storage optimization in Building 371 to reduce the site's operating cost until the materials can be shipped off-site through the shipping project (RF-012). Additionally, support will be provided for annual status reporting of the FY 1994 Plutonium Environmental Safety and Health Vulnerabilities and the FY 1996 Highly Enriched Uranium Environmental Safety and Health Vulnerabilities.

# Continue coordination of the consolidation into Building 371 of the packaged special nuclear material metals, oxides, and residues not scheduled for processing.

# Track all 1994 and 1996 safety survey vulnerabilities and submit closure documentation for DOE approval where vulnerabilities have been mitigated to defined closure criteria levels.

RF-006 .....	1,319	719	36
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-008/Plutonium Metals and Oxides Stabilization**

In accordance with the intent of the Defense Nuclear Facilities Safety Board Recommendation 94-1 Implementation Program Plan, this project supports the packaging of all material greater than 30 percent by weight plutonium, plus other selected materials, in nested, welded containers that meet the requirements of DOE-STD-3013, for interim storage at the Rocky Flats Environmental Technology Site and eventual shipment to the Savannah River Site.

# Package 960 containers of plutonium metals and oxides into 3013 containers for shipment.

RF-008 .....	18,127	17,557	11,640
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Metrics			
Nuclear Material Made Disposition Ready			
Plutonium Metal/Oxides or in Other Forms (containers) .....	0	720	960
Key Milestones			
# Package 720 3013 containers of plutonium metal/oxides (September 2000).			
# Package 960 containers of plutonium metal/oxides (September 2001).			

**RF-009/Plutonium Solid Residue Stabilization Project**

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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The purpose of the project is to conduct the minimum processing necessary to prepare solid residues to address Defense Nuclear Facility Safety Board Recommendation 94-1. The residues will be processed to meet the Interim Safe Storage Criteria and the Waste Isolation Pilot Plant Waste Acceptance Criteria as outlined in the Site Integrated Stabilization Management Plan Version 7.0, including in-process revisions. Additionally, the Settlement Agreement and Compliance Order on Consent No. 93-04-23-01 with the State of Colorado requires the processing of the backlog of mixed residues to put them in a shippable and/or disposable form and to remove them from the plant site as expeditiously as possible once an off-site disposal facility becomes available.

# Stabilize or package plutonium residues specifically: package 6,500 kilograms of wet combustible residue, disposition the final 2,571 kilograms of ash/graphite fines, and dry repack 7,362 kilograms of inorganic residues.

RF-009 ..... 70,836 93,005 42,000

Metrics			
Nuclear Material Stabilized			
Plutonium Residue (kg bulk) .....	30,864	41,635	16,433
Key Milestones			
# Make disposition ready: 6,100 kg of combustibles (September 2000)			
# Make disposition ready: 8,000 kg of salts (September 2000)			
# Make disposition ready: 12,960 kg of ash (September 2000)			
# Make disposition ready: 14,575 kg of dry/repack (September 2000)			
# Make disposition ready 2,571 kg of ash (September 2001)			
# Make disposition ready 6,500 kg of wet/combustibles (September 2001)			
# Make disposition ready 7,362 kg of dry/repack (September 2001)			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-010/Plutonium Liquid Stabilization**

The Plutonium Liquid Stabilization Project involves: the removal of containers stored in Buildings 559, 771, 776/7 and 779 and the removal of 23,925 liters of plutonium liquid from tanks and piping in Buildings 371; processing of the liquids to convert them to various forms for safe interim storage; mitigation of hydrogen in tanks; and support for mixed residue Resource Conservation and Recovery Act tank closure. The removal of liquid systems in Building 771 is included within the scope of project RF-018 Building 771/774 Cluster Closure Project. This project will be completed in FY 2000.

# No activity.

RF-010 .....	4,441	90	0
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**RF-011/Uranium Disposition Project**

The Uranium Disposition Project supports activities to remove plutonium contamination from stored enriched uranium hemi-shells to permit off-site shipment and acceptance by Oak Ridge Y-12; to remove residual highly enriched uranyl nitrate by removing the Raschig rings in the tanks at Rocky Flats; and to continue highly enriched uranyl nitrate conversion to highly enriched uranium oxide off-site. This project, as currently scoped, was completed in FY 1999.

# No activity.

RF-011 .....	788	0	0
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-012/Special Nuclear Material Shipping Project**

The Special Nuclear Material Shipping Project involves shipping of pits, enriched uranium, composite parts, metals and oxides in 3013 containers, scrub alloy and other types of material. This project supports all activities necessary to ensure the availability of off-site shipping containers (including procurement of the 9975 containers), procedure development, and packaging and shipping of special nuclear material. The near-term shipments of pits to Pantex and enriched uranium to Oak Ridge have been completed. In FY 2000 shipments of metals and oxides to the Savannah River Site will begin.

- # Ship 1,099 containers of plutonium metals and oxides, including composites, off-site.
- # Complete the transfer of packaged special nuclear material to Building 371.

RF-012 .....	6,692	9,483	16,510
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Key Milestones	
#	Ship all remaining scrub alloy to the Savannah River Site (February 2000)
#	Ship 760 containers of plutonium metal/oxides to the Savannah River Site (September 2000)
#	Ship 1,099 containers of plutonium metal/oxides to the Savannah River Site (September 2001)

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-013 Closure Caps Project**

The Closure Caps Project will provide caps over areas of the site where it may be impractical to remediate to acceptable risk levels for the intended land use in accordance with the Rocky Flats Cleanup Agreement vision for the Industrial Area. As currently scoped, the project includes the design and construction of caps in the 700 area after individual hazardous substance site remediation and decontamination and decommissioning activities have been completed. This project also includes regrading and revegetating of the Industrial Area and removal of pavement and foundations, if necessary. The objective of the project is to reduce infiltration and direct runoff thereby reducing the risk to human health and the environment by eliminating the possible contamination pathway. Construction of the caps is scheduled to begin in FY 2006 and will cover the 700 area, solar ponds, and possibly the landfill.

# Complete land configuration design basis incorporating comments from DOE, the Colorado Department of Health, and the Environmental Protection Agency

RF-013 .....	30	84	412
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<p>Metrics</p> <p>This project has associated metrics; however, no metrics are reportable in the 3-year budget profile.</p>
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-014/Industrial Zone Closure Project**

The primary focus of the Industrial Zone Closure Project is the closure of all the buildings within the zone, and continued operation of infrastructure activities that support site-wide closure. As the closure strategy focuses on risk reduction through early closure of the Production Area, the buildings and services within the Industrial Zone will be maintained for several years. Activities in this project include: Landlord Functions - ensuring that the buildings are maintained in a safe, secure, and environmentally compliant status; Deactivation - completing hazardous material removal, closing Resource Conservation and Recovery Act units, removing accessible holdup, and aligning the safety system controls to the reduced hazard levels; Decommissioning - decontaminating, dismantling and demolishing the cluster's buildings down to the foundation; and Remediate/Contain High Risk Individual Hazardous Substance Site - achieving the agreed upon end state for the remaining foundation and associated soil.

- # Complete characterization of the Industrial Area.
- # Continue surveillance and maintenance activities.
- # Maintain safe facility operations including emergency response (fire, medical, security), utilities and maintenance services (water plant, steam plant, electrical distribution), and administrative services (payroll, procurement), and waste operations (shipping, receiving, process waste vaults).

RF-014 .....	16,614	14,817	19,668
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Metrics			
Facility Decommissioning			
Assessments .....	2	0	0
Cleanups .....	0	0	1

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-015/Miscellaneous Production Zone Cluster Closure Project**

The purpose of the Miscellaneous Production Zone Cluster Closure Project is the closure of all buildings and sites within the zone. It also includes continued operation of site-wide services (non-destructive assay, analytical lab services) for as long as needed to support site-wide closure. Project activities include: landlord functions, special nuclear material removal operations, deactivation, decommissioning, and remediation/containing high risk individual hazardous substance sites.

- # Continued surveillance and maintenance activities.
- # Award contract for solar ponds water balance analysis.
- # Maintain safe facility operations that provide non-destructive assay, office space, and analytical laboratory services to the residue processing, residue packaging, residue shipment, special nuclear material shipment, and waste shipment.

RF-015 .....	11,648	7,292	9,996
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Metrics			
Facility Decommissioning			
Assessments .....	8	0	10
Cleanups .....	7	0	9

**RF-016/Building 371 Cluster Closure Project**

The purpose of the Building 371 Cluster Closure Project is the removal of all buildings within the cluster and the remediation of contaminants, to the extent possible. During the Cold War, these buildings were used in the recovery and conversion of plutonium and americium. Currently, these facilities support the consolidation and stabilization of certain plutonium residues and metals and oxides prior to off-site shipment. Additionally, in FY 2001, the Building 371 Cluster will initiate decommissioning activities concurrent with ongoing landlord and special nuclear material consolidation and stabilization support activities.

- # Continue surveillance and maintenance activities.
- # Maintain safe facility operations in support of residue processing and packaging (PBS RF-009), special nuclear material packaging (PBS RF-008) and interim waste storage.

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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# Support off-site special nuclear material shipping.

# Initiate decommissioning of Building 371.

RF-016 .....	20,918	33,903	32,478
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**Metrics**

This project has associated metrics; however, no metrics are reportable in the 3-year budget profile.

**RF-017/Building 707/750 Cluster Closure Project**

The purpose of the Building 707 Cluster Closure Project is the removal of all buildings within the cluster and the remediation of contaminants, to the extent possible, prior to the area being covered by a monitored cap. The Building 707 Cluster was used to perform all metallurgical and assembly processes for manufacturing plutonium components. Currently, the buildings support the majority of the plutonium residue stabilization and packaging activities. The FY 2001 scope of work for the Building 707 Cluster Closure Project reflects increased levels of deactivation and special nuclear material removal activities prior to facility decommissioning, closure and individual hazardous substance sites remediation.

# Continue surveillance and maintenance activities.

# Maintain safe facility operations in support of residue processing and initiate preliminary deactivation planning.

# Continue Building 707 special nuclear material removal in six modules (B,J,K,C,A,F).

# Start special nuclear material removal in modules E and D.

# Complete special nuclear material removal in module A.

# Start deactivation and decommissioning of module G and size-reduction activities.

RF-017 .....	20,826	24,366	25,667
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**Metrics**

This project has associated metrics; however, no metrics are reportable in the 3-year budget profile.

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-018/Building 771/774 Cluster Closure Project**

The purpose of the Building 771 Cluster Closure Project is the removal of all buildings within the cluster and the remediation of contaminants, to the extent possible, prior to the area being covered by a monitored cap. The Building 771 Cluster supported the recovery and processing of plutonium solutions. All Category I and II quantities of special nuclear materials have been removed from Building 771. The primary focus of the Building 771/774 Cluster Closure Project is now decommissioning. The cluster has been divided into 82 discrete decommissioning work sets, with demolition scheduled for the end of FY 2004.

- # Continue surveillance and maintenance activities.
- # Maintain safe facility operations in support of deactivation and decommissioning efforts.
- # Maintain Building 771 authorization basis.
- # Complete three Building 771 decontamination and decommissioning work sets and commence planning on nine others.
  
- # Complete draining and removal of Building 771 liquid systems.
- # Shut down Building 774 operations.

RF-018 .....	39,308	34,249	28,209
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Metrics			
Remedial Action/Release Site			
Assessments .....	1	0	0
Facility Decommissioning			
Assessments .....	33	0	0
Key Milestones			
# Drain and remove 14 Building 771 process piping systems (September 2000)			
# Complete eight decontamination and decommissioning work sets (September 2000)			
# Complete three decontamination and decommissioning work sets (September 2001)			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-019/Building 776/777 Cluster Closure Project**

The purpose of the Building 776/777 Cluster Closure Project is the removal of all buildings within the cluster and the remediation of contaminants, to the extent possible, prior to the area being covered by a monitored cap. Buildings 776/777 performed manufacturing and assembly of special order and war reserve weapons; disassembly, processing, and recovery from site returns; and waste operations, including size reduction and incineration. As waste and special nuclear material are removed from the Building 776/777 Cluster, the focus in FY 2001 will shift to facility characterization and decommissioning activities to include the decommissioning of 14 work sets in FY 2001. The 2006 Rocky Flats Closure Project Baseline identifies closure of the Building 776/777 Cluster as a critical path activity through site closure.

- # Continue surveillance and maintenance activities.
- # Maintain safe facility operations in support facility characterization and decontamination and decommissioning efforts.
- # Complete Building 776/777 characterization.
- # Complete update of Building 776 authorization basis.
- # Complete mixed residue tank draining.
- # Complete Building 776 deactivation.
- # Complete 14 Building 776 decontamination and decommissioning work sets.

RF-019 .....	14,719	27,159	18,561
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Metrics			
Facility Decommissioning			
Assessments .....	20	0	0
Key Milestones			
# Close Building 776 material access area (September 2000)			
# Complete 11 decontamination and decommissioning work sets (September 2000)			
# Complete 14 decontamination and decommissioning work sets (September 2001)			

(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-020/Building 881 Cluster Closure Project**

The purpose of the Building 881 Cluster Closure Project is the removal of all buildings within the cluster and the remediation of contaminants, to the extent possible, prior to the area being covered by a monitored cap. This project supports the landlord and maintenance activities for the site's central computer facility.

- # Continue surveillance and maintenance activities.
- # Maintain the facilities in a safe configuration prior to beginning active decontamination and decommissioning.

RF-020 .....	4,776	4,933	5,397
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<p>Metrics</p> <p>This project has associated metrics; however, no metrics are reportable in the 3-year budget profile.</p>
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**RF-021/Building 991 Cluster Closure Project**

The primary purpose of the Building 991 Cluster Closure Project is the closure of all the buildings and remediation of all the contaminants within the cluster. The Building 991 Cluster is currently used to characterize and store transuranic waste prior to shipment to the Waste Isolation Pilot Plant and provides a location for special nuclear material loading in preparation for off-site shipment. These capabilities will be maintained through FY 2003, after which cleanup and closure of the cluster will be initiated.

- # Continue surveillance and maintenance activities.
- # Maintain the facility in safe configuration to support special nuclear material shipping and transuranic waste storage.

RF-021 .....	1,599	1,471	1,502
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<p>Metrics</p> <p>This project has associated metrics; however, no metrics are reportable in the 3-year budget profile.</p>
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-022/Building 779 Cluster Closure Project**

The purpose of the Building 779 Cluster Closure Project is to close and demolish all the facilities within the cluster, and to remediate contaminants in the underlying soil in accordance with cleanup standards for the site. The Building 779 Cluster is categorized as a severely contaminated Type III Facility, and the completion of this project will provide for significant risk reduction. Of the seven Type III building clusters on-site, Building 779 was the first closed, with demolition completed in January 2000.

# There are no FY 2001 scheduled activities in this project. The Cluster was demolished to slab level during FY 2000. The remediation of the 779 Cluster high risk areas will commence in FY 2002.

RF-022 .....	36,935	5,321	0
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Metrics			
Facility Decommissioning			
Cleanups .....	3	21	0

**RF-023/Utilities and Infrastructure Project**

This project is comprised of the Utilities Project and the Infrastructure Project. The purpose of the Utilities Project is to provide the resources necessary to operate and maintain the physical plant infrastructure, including activities that produce and distribute utilities (electricity, water, steam, natural gas, and inert gases) for use throughout site. The purpose of the Infrastructure Project is to provide necessary support services to the site. These services include consolidating classified areas, cafeteria, metrology laboratories, emergency preparedness, logistics services, operations support services, fire protection and prevention, personal protective clothing and equipment, filter services, alarms and control system maintenance and shift superintendents.

# Continue utility and infrastructure support to ongoing stabilization, deactivation, and decommissioning activities.

# Disposition 82,000 items of property.

RF-023 .....	41,838	40,792	45,880
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-024/Safeguards and Security Project**

The purpose of the Safeguards and Security Project is to ensure the protection, control and accountability of special nuclear material. In addition, this project provides for industrial based security protecting Government property, information and people, as well as supplying internal security which includes protection of classified matter and information, computer, and personnel security.

# Continue to provide Safeguards and Security for stabilization, special nuclear material consolidation, special nuclear material shipping, and deactivation activities.

RF-024 .....	34,872	34,946	39,491
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**RF-025/Infrastructure Improvement/Replacement Project**

The Infrastructure Improvement/Replacement Project includes a number of subprojects whose main purpose is to maintain the infrastructure at the Site and provide for safe and secure operations during Site closure. These subprojects include: infrastructure upgrades for improved operational efficiencies to support downsizing of facilities; underground storage tank replacement; health physics/representative effluent samplers replacement; air monitoring improvement/replacement of selective alpha air monitors; replacement of the primary fire and security alarm systems in certain facilities; and replacement of obsolete and non-compliant life safety/disaster warning system in plutonium buildings.

# This project will be completed in FY 2000.

RF-025 .....	14,429	3,853	0
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(dollars in thousands)

FY 1999	FY 2000	FY 2001
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**RF-027/Analytical Services Project**

The Analytical Services Project provides sampling and analytical chemistry services in support of the Rocky Flats Environmental Technology Site and other DOE facilities. Analytical services satisfies the requirements of Federal, state, and local agencies for characterization of environmental contamination, facility waste, environmental monitoring, industrial hygiene, radiological health, medical monitoring, nuclear material processing and stabilization, and nuclear material control accountability. Analytical services are provided to on-site projects requiring analyses until site closure through the use of a combination of on-site and off-site laboratories.

- # Continue to provide site-wide analytical services.
- # Provide safe and accredited chemistry analysis and sampling for: residue processing and stabilization, nuclear material control accountability, environmental monitoring, radiological health, facility waste, and industrial hygiene.

RF-027 .....	7,597	7,110	10,541
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**RF-029/Rocky Flats Field Office / DOE Management**

The Rocky Flats Field Office program support includes funding for site utilities and a portion of the telecommunications costs; legal expenses for the class actions and other civil litigation of former site contractors under the litigation and claims clause of those contracts; financial assistance and agreements with other Federal, state and local entities; environmental monitoring; and technical support managed by the Rocky Flats Field Office. Within this budget, the lifecycle estimate includes post-contract worker benefit liabilities and stewardship beginning in FY 2007. Post-contract worker benefit liabilities include pension, retiree medical and life insurance, and workmen's compensation liabilities. Stewardship includes such activities as long-term monitoring, physical controls, maintenance, record storage and retrieval, litigation, and project management. In future budgets, these activities will be included in separate Project Baseline Summaries.

- # Continue to maintain utility, environmental monitoring agreements, and litigation support activities.

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
RF-029 .....	17,753	16,985	18,800

**RF-030/Kaiser-Hill Project Management**

This project includes costs for various support services required to support other Site projects including: planning and integration, records management, document control, management of the architect engineer/construction/construction management subcontract, environmental compliance and monitoring, all prime and subcontractor regular incentive fees, workforce restructuring, engineering, health and safety, occupational health, radiological protection, quality assurance, independent safety oversight, event analysis, and regulatory integration. These support services are integral to the safe and efficient execution of the type of work required to achieve accelerated cleanup and risk reduction at the Site.

- # Continue to provide planning and integration, performance oversight and programmatic management for site-wide operations.
- # Continue to provide safety systems, site engineering standards systems, and oversight of site nuclear engineering and radiation protection program support.
- # Continue support for records management, document control, and environmental compliance.

RF-030 .....	104,031	127,623	126,740
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**RF-034/Management Project**

The Management Project executive management, financial and administrative functions of the managing and integrating contractor, closure project major subcontractor, the nuclear operations major subcontractor, the site support major subcontractor, and the safeguards and security major subcontractor. The project includes costs for executive level managers, their direct technical and administrative support, and other personnel who provide support for activities that cannot be reasonably identified with specific direct charging efforts.

(dollars in thousands)

	FY 1999	FY 2000	FY 2001
# Continue to provide management project services with continued emphasis on implementation of process improvements and evaluation of out-sourcing opportunities.			
RF-034 .....	90,155	81,209	85,665
Total, Rocky Flats .....	657,200	664,675	664,675

### Explanation of Funding Changes from FY 2000 to FY 2001

	FY 2001 vs. FY 2000 (\$000)
<b>HQNP-SI01-CL/Security Investigations</b>	
# No significant change .....	-26
<b>RF-001/Buffer Zone Closure Project</b>	
# Reflects planned increase in environmental remediation activities .....	4,115
<b>RF-002/Waste Management Project</b>	
# Reflects increase in transuranic waste shipments, low-level waste disposal fees, and storage requirements due to additional low-level/mixed low-level waste generation .....	43,819
<b>RF-004/Special Nuclear Material Capital Support Project</b>	
# Decrease reflects completion of Building 371 facility upgrades in FY 2000 .....	-134
<b>RF-006/Special Nuclear Material Consolidation Project</b>	
# Decrease supports fewer planned special nuclear material consolidation activities .....	-683
<b>RF-008/Plutonium Metals and Oxides Stabilization</b>	
# Decrease reflects completion of construction activities (Plutonium Stabilization and Packaging System) in FY 2000 .....	-5,917
<b>RF-009/Plutonium Solid Residue Stabilization Project</b>	
# Decrease reflects substantial reduction in residue packaging. Salt repackaging complete in FY 2000, and ash repackaging scheduled to be complete in 1 <sup>st</sup> Quarter FY 2001 .....	-51,005
<b>RF-010/Plutonium Liquid Stabilization</b>	
# Decrease reflects project completion .....	-90
<b>RF-012/Special Nuclear Material Shipping Project</b>	
# Reflects increased number of special nuclear materials shipments off-site .....	7,027

FY 2001 vs. FY 2000 (\$000)
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<b>RF-013/Closure Caps Project</b>	
# Increase reflects initiation of land configuration design activities . . . . .	328
<b>RF-014/Industrial Zone Closure Project</b>	
# Reflects planned increase in facility decommissioning activities . . . . .	4,851
<b>RF-015/Miscellaneous Production Zone Cluster Closure Project</b>	
# Reflects planned increase in facility decommissioning activities . . . . .	2,704
<b>RF-016/Building 371 Cluster Closure Project</b>	
# No significant change . . . . .	-1,425
<b>RF-017/Building 707/750 Cluster Closure Project</b>	
# Reflects increased levels of deactivation and special nuclear material removal within the Building 707 Cluster . . . . .	1,301
<b>RF-018/Building 771/774 Cluster Closure Project</b>	
# FY 2000 funding level reflects increased activities in an attempt to recover project schedule. The lower funding level in FY 2001 reflects the currently baselined activities . . . .	-6,040
<b>RF-019/Building 776/777 Cluster Closure Project</b>	
# FY 2000 funding level reflects increased activities in an attempt to recover project schedule. The lower funding level in FY 2001 reflects the currently baselined activities. . . .	-8,598
<b>RF-020/Building 881 Cluster Closure Project</b>	
# Increase reflects continued surveillance and maintenance activities prior to initiation of decommissioning activities . . . . .	464
<b>RF-021/Building 991 Cluster Project</b>	
# No significant change . . . . .	31
<b>RF-022/Building 779 Cluster Closure Project</b>	
# Decrease reflects completion of facility demolition in FY 2000 . . . . .	-5,321
<b>RF-023/Utilities and Infrastructure Project</b>	
# Reflects increased infrastructure support commensurate with increased special nuclear material and waste shipping activities, as well as increased facility decommissioning activities. . . . .	5,088
<b>RF-024/Safeguards and Security Project</b>	
# Increase reflects baseline requirements . . . . .	4,545
<b>RF-025/Infrastructure Improvement/Replacement Project</b>	
# Decrease reflects completion of the projects in FY 2000 . . . . .	-3,853

FY 2001 vs. FY 2000 (\$000)
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**RF-027/Analytical Services Project**

# Reflects increased analytical services required to support accelerated special nuclear materials activities ..... 3,431

**RF-029/Rocky Flats Field Office - DOE Management**

# FY 2001 funding level reflects an increase in the baseline requirements ..... 1,815

**RF-030/Kaiser-Hill Project Management**

# Decrease reflects continued efforts to reduce support activities to maximize resources for closure activities ..... -883

**RF-034/Management Project**

# FY 2001 funding level reflects an increase in the baseline requirements ..... 4,456

Total Funding Change, Rocky Flats ..... 0