

# *Solving Cleanup Challenges Through Risk Reduction*



**Environmental  
Management  
Site Specific  
Advisory Board  
Chairs' Meeting**



## ***ENVIRONMENTAL MANAGEMENT PROGRAM UPDATE***



**James A. Rispoli  
Assistant Secretary  
March 29, 2007**



**EM Environmental Management**

**safety ❖ performance ❖ cleanup ❖ closure**

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# *Solving Cleanup Challenges Through Risk Reduction*

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## **EM Program Priorities**

- Continue to focus on safe, cost-effective prioritized risk reduction and cleanup
- Implement a robust project management system and acquisition strategies that promote performance and efficiency
- Strive for an organization with industry partners that recognizes professional competence and yields high performance



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## **EM Program Priorities Continued**



- Conduct safe operations



- Fully establish the disposition capability for radioactive liquid tank waste, special nuclear materials, and spent nuclear fuel



- Dispose of contact-handled and remote-handled transuranic waste and low-level radioactive waste



- Continue to remediate higher risk contaminated soil and groundwater



- Decontaminate and decommission facilities no longer needed



- Support post-closure benefits and liability requirements



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# Rocky Flats Site



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# Fernald Closure Project

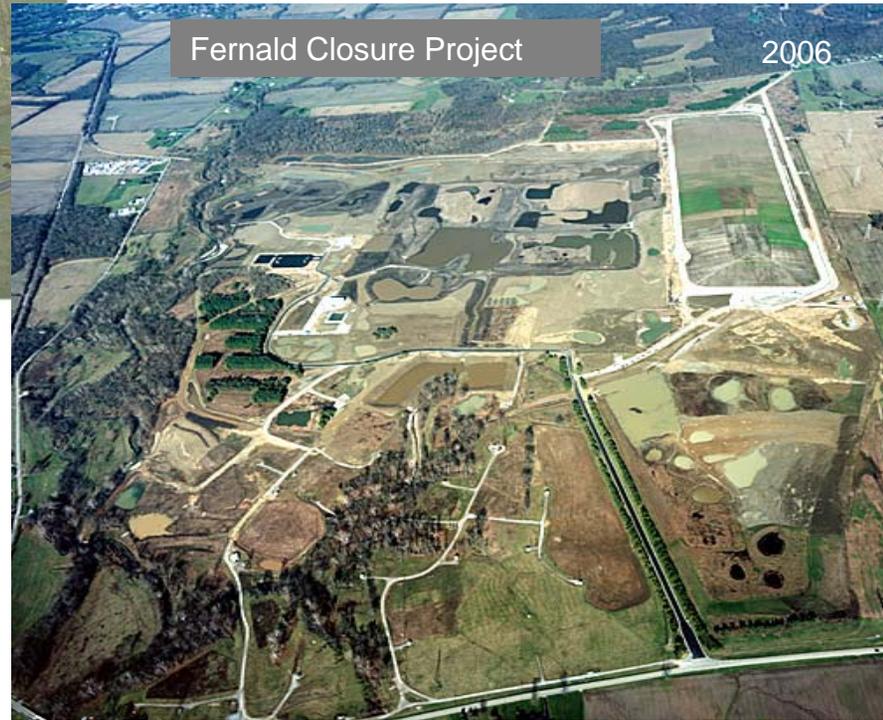
Fernald Closure Project

1987



Fernald Closure Project

2006



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# Columbus Closure Project



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# Ashtabula Closure Project



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# Miamisburg Closure Project



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# Oak Ridge Reservation -- Melton Valley



Completed September 30, 2006

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# Savannah River T-Area



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# Paducah Outside Material Storage Areas



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# First Remote-Handled Transuranic Waste Shipment to Waste Isolation Pilot Plant



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# K East Sludge Containerization



**East Bay**

After



**West Bay Floor**



**Center Bay**



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# Idaho Liquid Radioactive Waste Tanks



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## **FY 2007 - 2008 Cleanup Completions**

### FY 2007

- Lawrence Berkeley National Laboratory (California)

### FY 2008

- Miamisburg Environmental Management Project (Ohio) <sup>a/</sup>
- Inhalation Toxicology Laboratory (New Mexico)
- Pantex Plant (Texas)
- Lawrence Livermore National Laboratory – Site 300 (California)

a/ Physical completion in 2007

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# Solving Cleanup Challenges Through Risk Reduction

## Project Management Focus

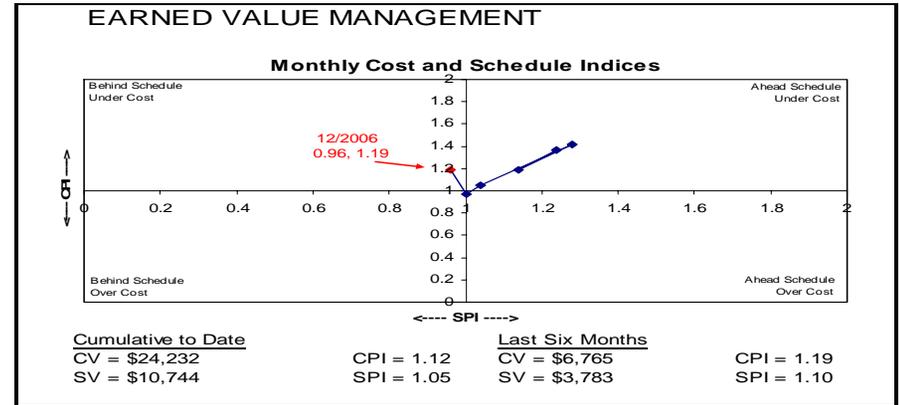
**Site:** Savannah River Site **Assessment** 

**PBS #:** SR-0011C  
**Title:** NM Stabilization and Disposition-2035

**TPC Near-Term**  
 Baseline = **\$253.3M (Deputy Secretary Report through 2006)**  
 LCC = \$1,759M (2005 Gen-2 Report + BCPs)  
 EAC = \$2,166M (2006 Project Execution Plan [PEP])

Validated TPC (LCC): Yes \_\_\_\_\_ No X  
 FPD: Patrick McGuire, 803-208-3927  
 Contractor: Washington Savannah River Company LLC (WSRC)  
 Status:  
 CD-0 \_\_\_\_\_ CD-1 X CD-2 \_\_\_\_\_ CD-3 \_\_\_\_\_ CD-4 \_\_\_\_\_

**Project Narrative Description:**  
 Safe receipt, surveillance, storage, and disposition of special nuclear materials in K Area and FAMS. Includes construction of the Plutonium Disposition Project.



### PROJECT RISK and RISK MITIGATION

**Risk:**  
 K-Area Fire Protection upgrades delay life safety improvements (Event ID# 041)

**Planned Action:**  
 Remaining KAMS upgrades anticipated to begin in FY 2009 (cable removal accomplished in September 2006)

**Risk:**  
 Storage space challenges for interim storage of NNSA materials (Event ID#045)

**Planned Action:**  
 New storage location (Fan Room) provides additional lag storage space, coordinate material receipts between H-Canyon and NNSA

### SAFETY PERFORMANCE

Occurrence Category	Performance Assessment
TRC Rate	Green
DARTS Rate	Green
Recurring Events	Green
Electrical Safety Events	Green
Criticality Events	Green
Industrial Events	Green
Radiological Events	Green
Near Miss Events	Green
Authorization Basis Events	Green
LOTO Events	Green
Injury Events	Green
QA Profile	Green

**Legend:**  
 Green = Good  
 Yellow = Requires some action  
 Red = Action Required

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## **EM Safety Priorities**

- Safety is number one in all we do in EM
- Incorporation of safety into planning and design of capital projects
- Incorporation of Quality Assurance (QA) into the planning, design, and construction of capital projects
- Federal Project Directors' responsibility and accountability for the integration of safety and QA into their projects
- Implementation of 10 CFR 851 “ Worker Safety”
- Better tracking of safety performance through data normalization.
  - Overall EM performance is improving



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## **Management Initiatives**

- Maintain and demand highest safety performance
  - Incorporation of safety in planning and design
- Assure effective identification and management of risks
  - Performance
  - Dealing with increased scope and requirements
  - Independent reviews – technical, cost, and schedule
- Validate project costs, schedules, and assumptions
- Improve management of projects
  - Use of “tools”
  - Quarterly project reviews
- Become a higher performing organization
  - Highly qualified
  - Well trained
  - Balanced
  - Diverse
- Implement more effective acquisition process
  - Integration of acquisition strategy, contract type, and fee structure with project objectives
  - More timely procurements
- Enhance communications including site managers' involvement of stakeholders



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### **EM SSAB Chairs' March 2007 Continuing Issues**

- FACA Compliance
- National Strategy on Waste Disposition
- EM Budget Development

### **EM SSAB Chairs' March 2007 New Issue**

- “The Politics of Cleanup”

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## **Summary**

- EM will continue focusing on safe, cost-effective prioritized risk reduction and environmental cleanup.
- EM is committed to and is implementing several management initiatives to improve performance and results in safety, acquisitions, and project management.
- EM's redesigned website is now available at [www.em.doe.gov](http://www.em.doe.gov).



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