

Waste Management 2007



#### U.S. DEPARTMENT OF ENERGY



ENVIRONMENTAL MANAGEMENT STATUS





Environmental Management

## **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

# **Rocky Flats Site**





## **Fernald Closure Project**







# **Columbus Closure Project**







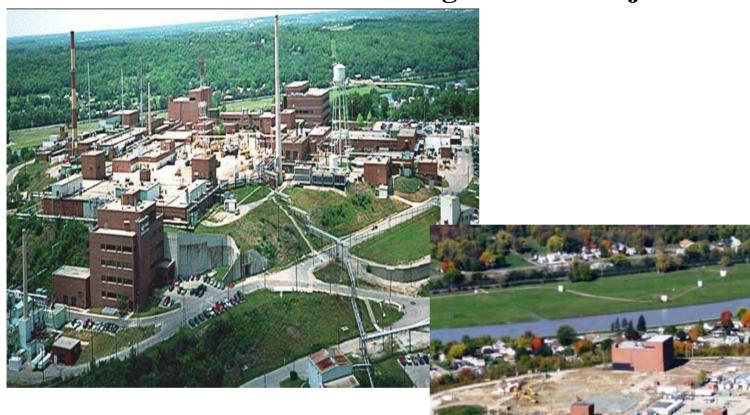
## **Ashtabula Closure Project**







# **Miamisburg Closure Project**







# Oak Ridge Reservation -- Melton Valley



closure

cleanup

Completed September 30, 2006



## Savannah River T-Area





# **Paducah Outside Material Storage Areas**





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







## **K East Sludge Containerization**









East Bay

After

West Bay Floor





Center Bay



**Environmental Management** 

## **Idaho Liquid Radioactive Waste Tanks**





cleanup

## FY 2007 - 2008 Cleanup Completions

#### FY 2007

• Lawrence Berkeley National Laboratory (California)

#### FY 2008

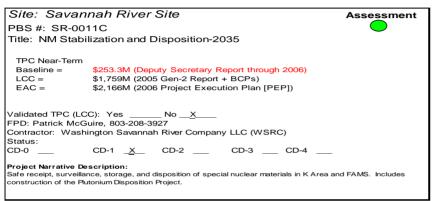
- Miamisburg Environmental Management Project (Ohio) a/
- Inhalation Toxicology Laboratory (New Mexico)
- Pantex Plant (Texas)
- Lawrence Livermore National Laboratory Site 300 (California)

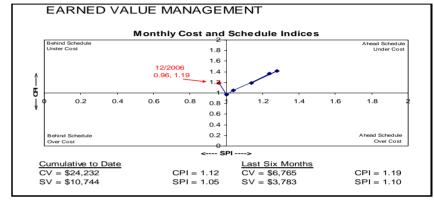
a/ Physical completion in 2007





#### **Project Management Focus**





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



#### **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



## **Safety Focus**

#### TRC & DART Rates by DOE EM Field Office

	<u>Site A</u>						]	Site B Site C					
Quarter - Fiscal Year	Contractor A		Contractor B		Contractor C			Contractor D		Contractor E		Contractor F	
	TRC	DART	TRC	DART	TRC	DART	1	TRC	DART	TRC	DART	TRC	DART
4th Quarter 05	0.6	0.0	1.5	1.5	0.9	0.0	1	0.5	0.0	0.5	0.3	2.4	0.0
1 st Q uarter 0 6	1.4	1.1	0.0	0.0	0.0	0.0	1	0.5	0.0	0.5	0.1	0.4	0.0
2 nd Quarter 06	0.9	0.3	1.0	0.0	0.0	0.0		0.9	0.0	0.8	0.2	1.1	0.0
3rd Quarter 06	0.0	0.0	0.0	0.0	2.0	1.0		0.5	0.0	0.6	0.2	0.0	0.0
4th Quarter 06	1.7	0.3	1.0	0.0	0.0	0.0	]	0.4	0.4	0.6	0.0	1.8	0.4
	Site D				T		Site E			Site F			
Quarter - Fiscal Year	Contractor G		Contractor H		Ī	C ontractor I		C ontractor J		Contractor K		C ontractor L	
	TRC	DART	TRC	DART		TRC	DART	TRC	DART	TRC	DART	TRC	DART
4th Quarter 05	1.1	0.4	2.5	<u>1.5</u>		3.0	1.7	1.5	0.5	1.6	0.0	2.2	<u>0.7</u>
1st Quarter 06	0.5	0.3	1.5	0.5		1.8	0.3	2.0	1.6	0.0	0.0	0.0	0.0
2nd Quarter 06	0.8	0.1	0.9	0.4		1.6	0.3	1.7	1.1	1.4	1.4	0.8	0.0
3rd Quarter 06	0.8	0.2	0.0	0.0		1.0	0.0	1.1	0.4	1.5	0.0	1.3	1.3
4th Quarter 06	1.0	0.2	0.0	0.0	l	0.6	0.0	2.4	1.6	0.0	0.0	0.0	0.0
	Site G				T	Sit	<u>е Н</u>						
Quarter - Fiscal Year	Contractor M Contractor N			Ĭ	Contra	ctor O							
	TRC	DART	TRC	DART		TRC	DART						
4th Quarter 05	1.7	0.3	0.4	0.0		1.2	0.5						
1 st Q u arter 0 6	0.6	0.0	0.9	0.0		1.7	1.1						
2nd Quarter 06	0.8	0.0	0.5	0.0		2.8	0.7						
3rd Quarter 06	1.4	0.5	0.0	0.0		1.1	0.5						
4th Quarter 06	2.2	1.0	1.4	1.0		2.0	0.9						
Color Key: **Case replaces case rate due to low work-hours (< 200,00												< 200,000	
Occupational Safety - Total Recordable Case Rate per 200,000 work hours.				TRC Rate			< 1.32 cases, EM mean.		1.63 - 2.	00 cases	> 2.00	cases	
OSHA Lost W ork Days Cases (Days Away from W ork or Restricted Days) per 200,000 work hours.					DART C	DART Case Rate		< .60 cases, EM mean.		.80 - 1.	00 cases	> 1.00	cases



#### **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



#### **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 <u>www.em.doe.gov.</u>