

Project Operating Plan

BACKGROUND

Recovery Act Project: Oak Ridge Defense Accelerate TRU Waste Recovery Act Project

TAFS: 89-09/10-0253

Project Identification Code: 2002102

Recovery Act Bill Reference: PL 111-5, Title IV - Energy and Water Development, Defense Environmental Cleanup (H.R.1-26)

Project Cost: \$80,000,000

Budget Authority: 06049, FD.04.30.00.0 - \$80,000,000

Program Office: Environmental Management (EM)

Recovery Program Plan: EM - Defense

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LEADS

Implementation: N/A

Breakthrough: N/A

Laboratory: N/A

I. SUMMARY & OBJECTIVES

Summary:

This Recovery Act Project takes the Transuranic Waste Processing Center (TWPC) from a single CH and RH operating shift to multiple CH and RH operating shifts. This project will:

- Process 400 cubic meters of CH TRU Debris waste by September 30, 2010.
- Process 200 cubic meters of RH TRU Debris waste by September 30, 2010.

This Recovery Act work meets the following Department of Energy (DOE) and Environmental Management (EM) strategic themes and goals:

DOE Strategic Theme 4 – Environmental Responsibility – Protect the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.

DOE Strategic Goal 4.1 – Environmental Cleanup – Complete cleanup of the contaminated nuclear weapons manufacturing and testing sites across the United States.

DOE Strategic Theme 5 – Management Excellence - Enabling the Department’s mission through sound fiscal and program management.

DOE Strategic Goal 5.1 – Integrated Management – Institute an integrated business management approach throughout DOE with clear roles and responsibilities and accountability to include effective line management oversight by both Federal and contractor organizations.

EM Strategic Goals – Transporting and disposing of transuranic wastes in a safe and cost effective manner to reduce risks. Fulfilling commitments to reduce risk and complete cleanup across all sites for future generations.

Public Benefits:

This Recovery Act Project will create and/or retain jobs in line with Recovery Act economic objectives. This project will accelerate CH TRU and RH TRU debris processing, completing the total inventory one year earlier than planned. The acceleration of the above activities will reduce the Environmental Management liabilities.

Recovery Act Project Impacts:

This Recovery Act Project eliminates on-site sources of contamination reducing the risk of a release of radioactive or other hazardous materials to the work force, public, and the environment. This Recovery Act Project will create and/or retain jobs in line with Recovery Act economic objectives. This project will accelerate CH TRU and RH TRU debris processing, completing the total inventory one year earlier than planned. The acceleration of the above activities will reduce the Environmental Management liabilities.

II. COST & SCHEDULE

Budget

Table 1a: Budget Implementation 12 Week Obligations (\$M)

	Week of ARRA Activities (Beginning Week of March 9)											
	1	2	3	4	5	6	7	8	9	10	11	12
TRU Defense												

Table 1b: Budget Implementation 12 Week Expenditures (\$M)

	Week of ARRA Activities (Beginning Week of March 9)											
	1	2	3	4	5	6	7	8	9	10	11	12
TRU Defense												

Table 2a: Budget Implementation Monthly & Yearly Obligations (\$M)

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1					
	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec			
TRU Defense	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept			
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr – Sept					
	FY 2012			FY 2013			FY 2014			FY 2015		

Table 2b: Budget Implementation Monthly & Yearly Expenditures (\$M)

	FY 2009 Q3			FY 2009 Q4			FY 2010 Q1					
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
TRU Defense	FY 2010 Q2			FY 2010 Q3			FY 2010 Q4					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept			
	FY 2011 Q1			FY 2011 Q2			FY 2011 Q3 & Q4					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr - Sept					
	FY 2012			FY 2013			FY 2014			FY 2015		

The expenditure profile in Table 1b and 2b and the performance measures provided in Table 6 are based on the best available information about the Recovery Act requirements and pre-work authorization project definitions. Rough order of magnitude estimates have been developed to date for costs and the associated end-state performance measures. It is expected that as the detailed estimates and resource-loaded schedules (using Primavera 6.2) are developed, there will be changes to these estimates and performance measures.

This Recovery Act scope will be integrated into the Oak Ridge baseline, but tracked and reported separately and uniquely, using an approved change control process.

Table 3: Funds Returned and Offsetting Collections (\$M)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
N/A							

Indirect Costs:

This work will be performed by a non-facility and operating contractor. The non-facility and operating contractor’s costs are assumed to be all direct costs.

Changes to Baseline Budget

Table 4: Changes to Baseline Budgets (\$M)

Changes to Baseline Budget	Increase/Decrease	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
Project Acceleration	Increase							

Accelerating the processing and disposal of contact-handled and remote-handled debris inventory one year earlier than planned will decrease funding requirements by \$65 Million in FY18.

Milestones:

Please see Table 6 below.

Table 5: Delivery Schedule for Capital Asset Projects
N/A (until OECM and EM agree on 413.3A graded approach)

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List	N/A	
Develop Parametric Performance Baseline (Individual Projects)	N/A	
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)	N/A	
Approve Performance Baseline	N/A	
Approve Start of Construction	N/A	
Approve Project Completion	N/A	

Note: No projects meet definition of capital asset.

III. PERFORMANCE

Performance Measures:

Performance measures provided in Table 6 are based on the best available information about Recovery Act requirements and pre-work authorization project definitions. Rough order of magnitude estimates have been developed to date for costs and the associated end-state performance measures. It is expected that there will be changes to the estimates and performance measures.

This Recovery Act scope will be integrated into the Oak Ridge baseline, but tracked and reported separately and uniquely, using an approved change control process.

Table 6: Project Performance Targets

Recovery Act Project Identification Code	2002102
Linkage To S-1 Priorities	Economic prosperity and national security and legacy (see Table 8)
Linkage to Current Program Goal (if applicable)	DOE Strategic Theme 4 – Environmental Responsibility – Protect the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.

	EM Strategic Goal - Transporting and disposing of transuranic wastes in a safe and cost effective manner to reduce risks. Fulfilling commitments to reduce risk and complete cleanup across all sites for future generations.
Two-Year Outcome-Oriented Performance Measure	By the end of FY 2010: <ul style="list-style-type: none"> • Complete processing of 400 cubic meters CH TRU Debris • Complete processing of 200 cubic meters RH TRU Debris
First Year Performance Target	By the end of FY 2009 add additional shift to: <ul style="list-style-type: none"> • Process CH TRU debris • Process RH TRU debris
Q3 - Project-Level Quarterly Performance Milestone(s)	<ul style="list-style-type: none"> • Transuranic Waste Processing - Hire 2nd operating shift personnel and initiate training
Q4 - Project-Level Quarterly Performance Milestone(s)	<ul style="list-style-type: none"> • Transuranic Waste Processing - 2nd shift operations begin
Second Year Performance Target	By the end of FY 2010: <ul style="list-style-type: none"> • Complete processing 400 cubic meters CH TRU Debris. • Complete processing 200 cubic meters RH TRU Debris.
Q1 - Project-Level Quarterly Performance Milestone(s)	<ul style="list-style-type: none"> • Transuranic Waste Processing - Hire 3rd operating shift personnel and initiate training
Q2 - Project-Level Quarterly Performance Milestone(s)	<ul style="list-style-type: none"> • Transuranic Waste Processing - 3rd shift operations begin
Q3 - Project-Level Quarterly Performance Milestone(s)	
Q4 - Project-Level Quarterly Performance Milestone(s)	<ul style="list-style-type: none"> • Complete processing 400 cubic meters of CH TRU Debris • Complete processing 200 cubic meters of RH TRU Debris

Third Year Performance Target	
Q1 - Project-Level Quarterly Performance Milestone(s)	
Q2 - Project-Level Quarterly Performance Milestone(s)	
Q3 - Project-Level Quarterly Performance Milestone(s)	
Q4 - Project-Level Quarterly Performance Milestone(s)	

National Strategic Benefits

Table 7: National Strategic Benefits

1. N/A
2. N/A

IV. MANAGEMENT

Secretarial-level Items

The initiative outlined in this plan support the following Secretary of Energy's Priorities:

- Economic Prosperity
- National Security and Legacy

Table 8: Secretary's Priorities

Secretary's Priorities	Project Impacts (Qualitative)	Project Impacts (Quantitative)
Science and Discovery		
Clean, Secure Energy		
Economic Prosperity	Jobs	Create and/or preserve jobs.
National Security and Legacy	Accelerate legacy remote-handled and contact-handled transuranic waste processing on the Oak Ridge Reservation.	Complete processing of 200 cubic meters remote-handled transuranic waste and 400 cubic meters of contact-handled transuranic waste.

Climate Change		
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Collaboration and Coordination:

The following external partners will play a vital role in the successful completion of the Recovery Act scope:

- Regulatory
 - Environmental Protection Agency, Region IV
 - Tennessee Department of Environmental Conservation
 - Tennessee Department of Transportation
 - Defense Nuclear Facilities Safety Board
- License Disposal Sites
 - Waste Isolation Pilot Plant, New Mexico
 - Nevada Test Site
 - Energy Solutions, Utah
 - Other Available Commercial Facilities
- Other Stakeholders
 - Oak Ridge Site Specific Advisory Board

Federal Infrastructure Investments:

There are no infrastructure investment project activities associated with this Recovery Act Project.

The identified waste removal actions deal with hazardous and radiological material. Accelerating the removal and proper disposal reduces risk of releases of this material to the environment.

Line Management:

Oak Ridge will use existing business and project management systems and practices to effectively monitor and report on the Recovery Act projects, including:

- Fully implement all Recovery Act transparency and reporting requirements through modifications to the contract that will fund this Recovery Act Project.
- Continue applying project management principles to Recovery Act Project execution, including reviewing and validating Environmental Management project cost and schedule baselines consistent with the Department of Energy’s Order 413.3A and identifying project risks and strategies for managing them.
- Continue monitoring of the contractors’ Earned Value Management System reports to ensure the Recovery Act Project is on track and, if not or if trends are in a negative direction, to develop and implement corrective actions.
- Use an Integrated Project Team of Federal and contractor staff with project knowledge and subject matter expertise essential to the successful planning and execution of the project – including safety, risk management, engineering, quality assurance, contracts administration, and project controls.
- Conduct periodic project reviews to inform senior management of the status of the Recovery Act projects.

Needs from Staff Offices:

- Timely business clearance approval or waiver from Headquarters for large procurement actions.
- Priority execution of security clearance requests.

1) Human Capital

Oak Ridge is committed to ensuring the safety of workers and the public during the accomplishment of the additional work under the Recovery Act, and additional measures and personnel are required beyond those currently in place. Accordingly, the current Environmental Management contractor who will be performing work funded under Recovery Act has an existing Safety Assurance Plan.

We are in the process of completing our staffing analysis to ensure we are able to perform adequate oversight of this work to ensure the safety of workers and the public. Additional requirements for Facility Representatives, Safety System Subject Matter Experts, project control engineers/specialists, estimators, and schedulers will be determined and provided as necessary through Technical Support Services Contract(s).

Table 9: Information on Hiring Under the Recovery Act

# & Type of Positions (Title, Series and Grade)	Location (HQ or Field – w/location)	Federal or Contractor	Timeframe (1-6mos; 6+mos; other; specify date needed if possible)
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Note: Oak Ridge requirements for Recovery Act projects are included in the Oak Ridge Defense ORNL D&D Recovery Act Project Operating Plan.