

# **Nuclear Material Stabilization and Disposition (RL-0011)**

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*HC-227T*



*Removal of water walls*



*HC-13MD*

## Overview

This section addresses work in Project Baseline Summary RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2007.

## Notable Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

- Completed packaging of 100 9975 shipping containers on August 15, 2007, per DOE direction.
- Completed annual maintenance/leak testing of 50 9975 shipping containers.
- Completed 242-Z airlock lay-up scope.
- Completed waste disposition on internal clean out of 227T glovebox. This completes the milestone for internal clean-out of eight 234-5Z gloveboxes planned in FY 2007 one month ahead of schedule.
- Continued Internal Cleanout of 234-5 gloveboxes.
  - Successfully lowered the HC-13MD mixer/dumper block assembly to the floor of the glovebox.
    - Size reduced and moved to glovebox HC-18M for further size reduction and packaging.
  - Efforts continued to remove the HA-23S water walls.
    - Three of eight water walls (P3, P4 and P5) were successfully removed from the glovebox and relocated to temporary storage.

## FY 2007 Funds vs. Spend Forecast (\$M)

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Nuclear Materials Stabilization and Disposition	\$ 98.5	\$ 97.3	\$ 1.2

## Schedule/Cost Performance (\$M)

Nuclear Materials Stabilization & Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY07/CTD)
Current Period (Month)	\$8.5	\$9.1	\$8.5	\$0.7	7.9%	\$0.7	7.4%	\$92.6
Cumulative to Date (FY 2004 - Present)	\$560.0	\$572.9	\$538.2	\$12.9	2.3%	\$34.8	6.1%	\$672.4

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

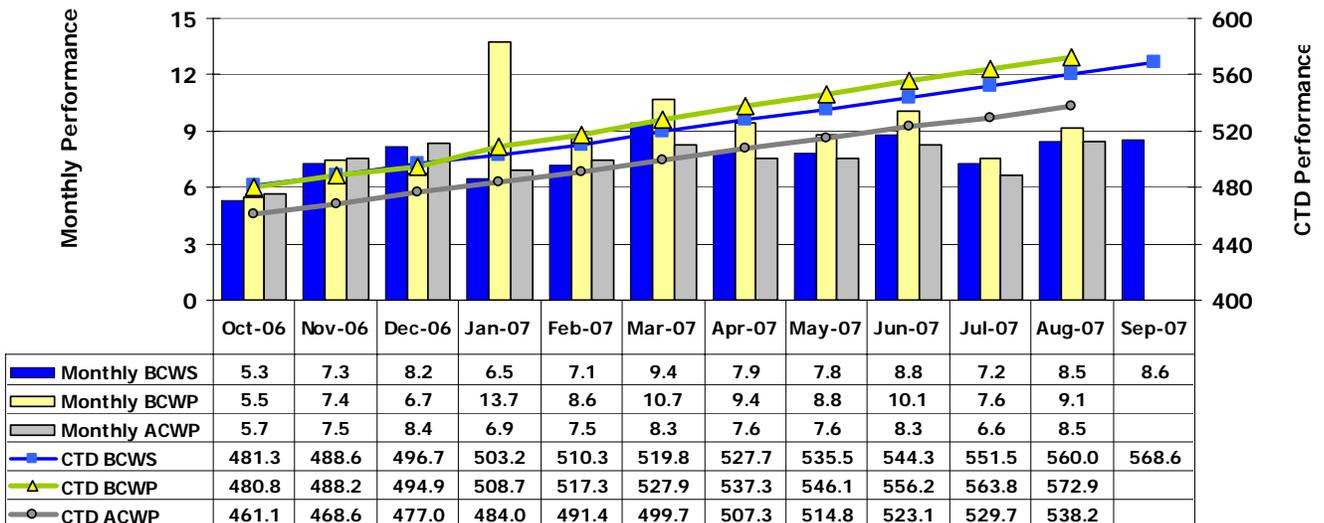
## Schedule/Cost Performance, continued

**CTD Schedule Performance: (+\$12.9M/+2.3%):** The positive schedule variance is due to accelerated progress on planning and glovebox cleanout in the 234-5Z facility, and associated apportioned support activities.

**CTD Cost Performance: (+\$34.8M/+6.1%):** The positive cost variance is due to:

- Work efficiencies in 234-5Z glovebox cleanout and apportioned support activities.
- Favorable solid waste disposition cost.
- Completion of roof repair, MICON recabling, and special nuclear material (SNM) stabilization activities under cost.
- Efficiencies in miscellaneous materials disposition.
- Reduced resource requirements for SNM De-inventory and Disposition Planning.
- Reduced overhead costs/allocations.

### Performance Analysis CTD and Monthly (\$M)



## Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
TRP-06-533	RCRA Closure Activities Completed For Each 241Z Cell With RCRA Permitted Tanks	PI	10/30/2006	10/26/2006		Complete
TRP-06-537	234-5Z Roof Repair Completed	PI	3/31/2007	9/28/2006		Complete
TRP-07-501	Complete Internal Cleanout of Eight Gloveboxes by September 30, 2007	PI	9/30/2007	8/21/2007		Complete
TRP-07-502	Operator Certification and Professional Engineer Certification on the RCRA 241-Z Closure Submitted to DOE	PI	3/30/2007	12/8/2006		Complete
TRP-07-503	241-Z Transitioned to Demolition Ready Condition	PI	6/30/2007	3/29/2007		Complete
TRP-07-504	241-Z Demolished to Slab-On-Grade	PI	9/30/2007	6/8/2007		Complete
TRP-08-004	Removal Action Work Plan for the 216-Z-9 Crib Complex Submitted to DOE	PI	9/30/2008		9/30/2008	On Schedule
TRP-08-005	Implement the Necessary Lay-up Activities to Place PFP in a Safe Configuration Until D&D Resumes	PI	9/30/2008		9/30/2008	On Schedule
TRP-08-006	Internal cleanout of up to 9 additional contaminated gloveboxes and glovebox HA-23	PI	9/30/2008		9/30/2008	On Schedule
TRP-08-025	Complete 216-Z-9 Facility Condition Analysis by 30 September 2008	PI	9/30/2008		11/30/2007	Ahead of Schedule
TRP-08-026	Complete additional FY 2008 lay-up work scope per the Lay-up Plan	PI	9/30/2008		9/30/2008	On Schedule
TRP-08-027	Complete internal cleanout of ten (10) 234-5Z gloveboxes/conveyers	PI	9/30/2008		9/30/2008	On Schedule
TRP-08-028	Complete internal cleanout of one (1) PRF glovebox	PI	9/30/2008		9/30/2008	On Schedule
TRP-11-502	Complete Closure of the PFP 241-Z TSD Unit	PI	9/30/2011	2/22/2007		Complete
TRP-11-503	Complete Transition and Dismantlement of 241-Z Waste Treatment Facility	PI	9/30/2011	6/8/2007		Complete