

# Nuclear Material Stabilization and Disposition (RL-0011)

D. B. Klos, Vice President of Plutonium  
Finishing Plant Closure Project/  
(509) 373-3574



*Continued  
internal  
clean out of  
gloveboxes*



*Packaging  
3013s into  
9975s*



## 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 July 2007.

## Notable Accomplishments

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

- Completed draining the HA-23S water walls.
- Completed draining of liquids in Pulser glovebox.
- Completed internal clean out of the HA-14S glovebox.
- Completed the structural evaluation of the 216-Z-9 crib slab.
  - A survey was performed to support the structural analysis of the slab. The results of the survey are with the Structural Engineer.
- Completed Safeguards measurements on three 3013 containers, bringing the total completed to-date to 80.
- Unpacked 93 9975 containers with expired leak test.
- Initiated packaging of 3013s into 9975 shipping containers in preparation for shipping.

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

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Nuclear Materials Stabilization and Disposition	\$ 98.2	\$ 98.5	\$ -0.2

\* PFP Closure Project and FH management are taking actions to ensure funds are not exceeded at year end.

## 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)	\$7.2	\$7.6	\$6.6	\$0.3	4.8%	\$0.9	12.3%	\$92.6
Cumulative to Date (FY 2004 - Present)	\$551.5	\$563.8	\$529.7	\$12.3	2.2%	\$34.1	6.0%	\$672.4

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

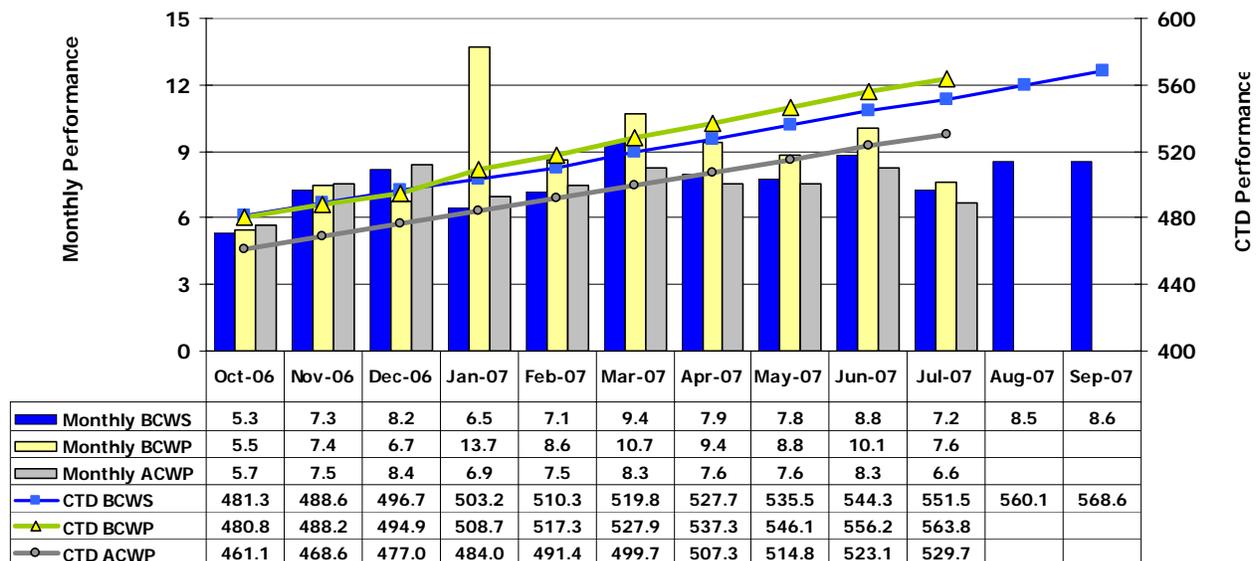
## Schedule/Cost Performance, continued

**CTD Schedule Performance: (+\$12.3M/+2.2%):** 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: (+\$34.1M/+6.0%):** The positive cost variance is due to:

- Work efficiencies in 234-5Z glovebox cleanout and apportioned support activities.
- Favorable solid waste disposition rates.
- 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		9/30/2007	On Schedule
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-08-025	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