

# Nuclear Material Stabilization and Disposition (RL-0011)

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



*Completed installation of  
new filters and frames in  
318 filter room*



*Continued progress on internal equipment  
cleanout of 234-5Z glovebox HA-23S*



## 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 December 2007.

## Notable Accomplishments

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

- Continued progress on internal equipment cleanout of 234-5Z glovebox HA-23S.
- Completed 216-Z-9 Facility Condition Analysis.
- Continued annual maintenance and leak test of 9975 containers.
- Continued to package 3013 containers into the 9975 shipping containers.
- Continued with prompt gamma measurements of 3013 containers, approximately 123 3013s remain (of over 900).
- Dispositioned 125 of the 146 comments (86 percent) on the Hanford Unirradiated Fuel Package (HUFPP) Safety Analysis Report for Packaging (SARP).
  - The review team has accepted 72 (49 percent) of the dispositioned comments.
- Completed installation of new filters and frames in 318 filter room.
  - Remaining activities to be completed include painting, DA inspection and aerosol testing.

## FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
Nuclear Materials Stabilization and Disposition	\$ 102.8	\$ 109.8	\$ -7.0

## 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 (FY08/CTD)
Current Period (Month)	\$7.6	\$7.0	\$6.9	-\$0.6	-8.4%	\$0.0	0.5%	\$103.3
Cumulative to Date (FY 2004 - Present)	\$604.7	\$605.5	\$567.7	\$0.8	0.1%	\$37.8	6.2%	\$687.3

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

## Schedule/Cost Performance, continued

**CTD Schedule Performance: (+\$0.8M/+0.1%):** The positive schedule variance is primarily the result of:

- Accelerated progress on planning and glovebox cleanout in the 234-5Z facility, and associated apportioned support activities.

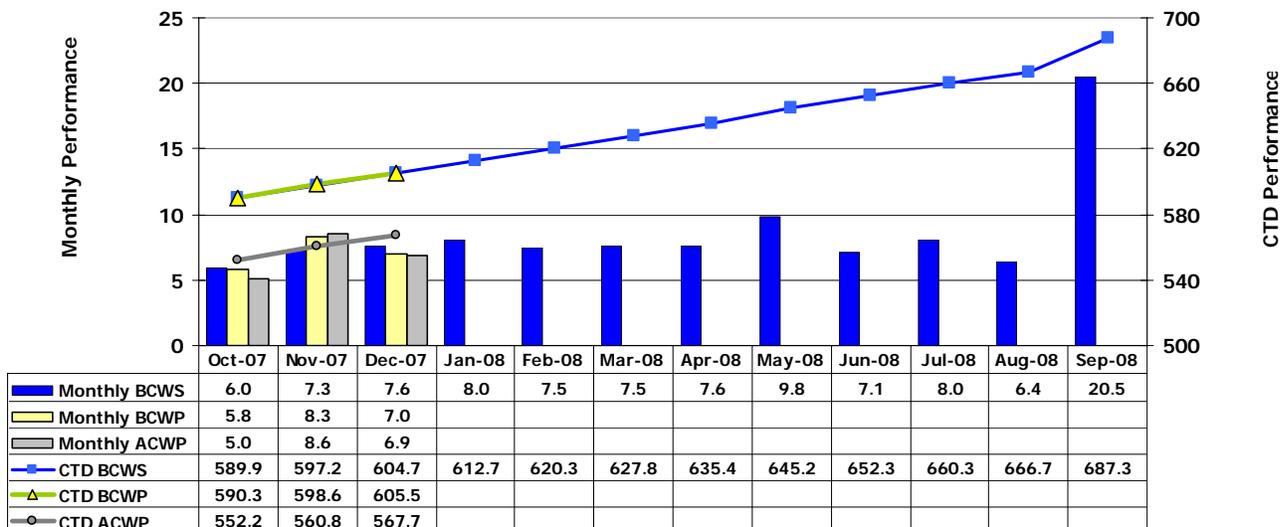
The positive variance is partially offset by:

- The procurement long lead materials for the HUFP, planned to start in December, has been delayed.
- The late receipt and the magnitude of the SARP Q0 comments, comment resolution and incorporation is behind schedule and expected to complete ~90 days late.

**CTD Cost Performance: (+\$37.8M/+6.2%):** 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 Special Nuclear Materials (SNM) de-inventory and disposition planning.
- Reduced overhead costs/allocations.
- Concerted effort to extend maintenance frequencies.

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



## Milestone Achievement

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone and Performance Incentives (PIs) information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of BCRs approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
TRP-08-004	Removal Action Work Plan for the 216-Z-9 Crib Complex Submitted to DOE	PI	9/30/2008		2/28/2008	Ahead of 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	12/6/2007		Complete
TRP-08-006	Internal cleanout of up to 9 additional contaminated gloveboxes and glovebox HA-23	PI	9/30/2008		6/17/2008	Ahead of Schedule
TRP-08-025	Complete 216-Z-9 Facility Condition Analysis by 30 September 2008	PI	9/30/2008	12/6/2007		Complete
TRP-08-027	Complete internal cleanout of one 234-5Z glovebox/conveyer	PI	9/30/2008	11/13/2007		Complete
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