

Nuclear Material Stabilization and Disposition (RL-0011)

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DEACTIVATION & DECOMMISSIONING OF 26 INCH PROCESS VACUUM PIPING,
ROOM 262, 235-5Z BUILDING



Auger equipment used to clean
26 inch process vacuum piping



Containment Tent in Room 262



Employee working in glove bag
inside the containment tent



Post removal of material, 26
inch Process Vacuum Piping

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 November 2004.

Notable Accomplishments

Disposition the Plutonium Finishing Plant (PFP) Facility

Shipment of half of the miscellaneous nuclear materials stored at PFP was completed on November 24, 2004, ten months ahead of the baseline commitment.

The final transfer of liquid radioactive waste from the 241-Z Liquid Waste Treatment Facility to the 200 West Area Tank Farms was completed successfully on November 8, 2004. This is one of the key actions required to meet Tri-Party Agreement (TPA) milestone M-083-31, "Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms," due June 30, 2005.

Active Remote Mechanical 'A' and 'C' line crews finished plutonium holdup removals on glove boxes HC-3, HC-5 conveyor and HC-17-SBB which are now declared legacy-holdup clean.

PFP successfully completed the decontamination of the PFP Closure Project's first plutonium glove box, 235-B2, to low-level waste criteria consistent with Performance Objective RL-011 2b (4).

FH completed legacy plutonium holdup removal activities in miscellaneous treatment glove box MT-4 in the Plutonium Reclamation Facility (PRF) this month.

The first manned entry into the PRF canyon in 14 years was successfully executed on November 2, 2004.

Issues

Special Nuclear Material (SNM) De-inventory Delay: DOE authorization to allow shipment of Hanford plutonium material to the Savannah River Site (SRS) was due by August 30, 2004, but has not been received. The continued delay in authorization to ship will result in a delay in completion of the SNM de-inventory of the PFP complex. The Record of Decision, a key document required by DOE prior to issuing the authorization for Hanford to ship SNM to SRS, is not expected now until sometime next calendar year.

Anticipated FY 2005 Funds (\$M)

	FY 2005 Anticipated Funding w/Carryover
Nuclear Materials Stabilization & Disposition	\$ 211.0

FY 2005 Schedule/Cost Performance (\$M)

	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
Nuclear Materials Stabilization & Disposition	\$30.3	\$28.7	\$25.2	-\$1.6	-5.1%	\$3.5	12.2%	\$215.6

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

Schedule Performance (-\$1.6M/-5.1%): Primary contributors to the unfavorable schedule performance include:

- Delay in packaging and shipment of SNM due to lack of authorization to ship;
- Deactivation and decommissioning (D&D) activities behind schedule due to delays in 232-Z, 241-Z and 236-Z D&D; and,
- Delays in solid waste disposal activities due to delayed D&D activities.

This negative schedule variance is partially offset by ahead-of-schedule progress on D&D activities to transition 234-5Z.

Cost Performance (+\$3.5M/+12.2%): Primary contributors to the favorable cost variance include:

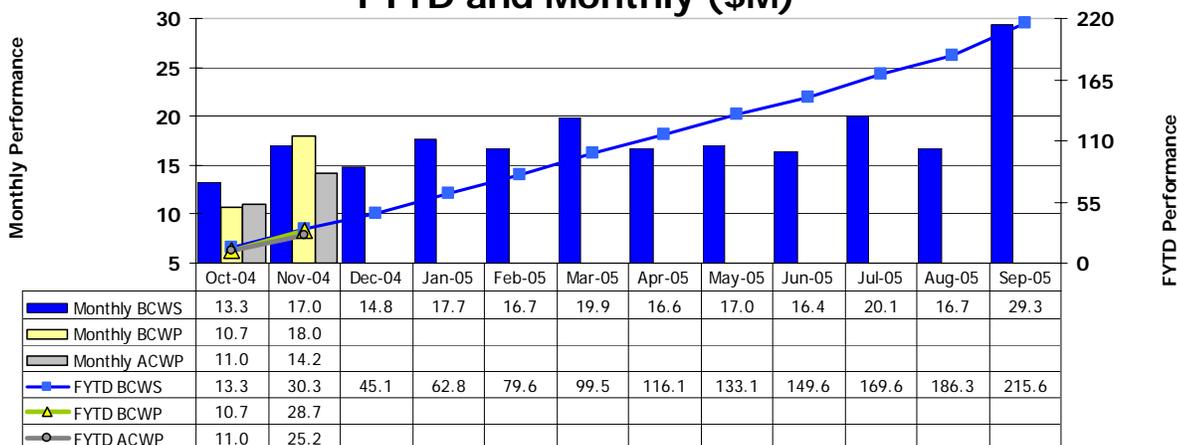
No costs received for solid waste disposition;

- Use of existing lab and SNM de-inventory re-weld teams to support 234-5Z Transition D&D work scope;
- Efficiencies in 236-Z project support and canyon tank planning and procurement; and
- Lower cost in transition operations support due to a reduction in additional staff required to support D&D activities.

These positive cost variances are partially offset by:

- Dedicated partial staffing for 232-Z D&D work to help recovery actions from earlier schedule delays; and
- Fissile material movement outage and use of overtime to recover schedule in legacy plutonium holdup removal and disposition activities.

Performance Analysis FYTD and Monthly (\$M)



Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-05-501 TRP-05-506	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	TPA PI	6/30/05		12/8/04	Ahead of Schedule
TRP-05-503	Complete Deinventory of DOE-STD-3013 Containers & Unirradiated Fuel by Shipment to SRS or Other Approved Location	PI	9/30/06		TBD	Will be Impacted due to Delayed Authorization to Ship
TRP-05-504	Remove and Disposition Pu Holdup in Process Equipment at PFP	PI	9/30/05		7/31/05	Ahead of Schedule
TRP-05-505	Transition 10 Facilities to Slab-on-Grade	PI	9/30/05		7/31/05	Ahead of Schedule
TRP-06-500	Decontaminate Glovebox HA-20MB	PI	3/31/06	10/28/04	-----	Complete
TRP-06-501	Complete 100% Legacy Pu Holdup Removal and Disposition	TPA	9/30/06		7/31/05	Ahead of Schedule
TRP-06-507 TRP-06-502	Transition 232-Z Bldg Incinerator to Slab-on-Grade	TPA PI	3/31/06 9/30/06		3/31/06	On Schedule Ahead of Schedule
TRP-06-503	Remove Remaining SNM From PFP Such That Protected Area Not Required	PI	9/30/06		TBD	Will be Impacted due to Delayed Authorization to Ship
TRP-06-509	Disposition Miscellaneous PFP Nuclear Materials	PI	9/30/06		TBD	Will be Impacted due to Delayed Authorization to Ship
TRP-06-510	Transition 241-Z/ZA Facility to Demolition Ready	PI	9/30/06		9/30/06	On Schedule
TRP-06-511	Remove or Decontaminate 236-Z Pencil Tanks	PI	9/30/06		9/30/06	On Schedule
TRP-06-512	Remove or Decontaminate the 236-Z Process Equipment in Rooms 50 & 60	PI	9/30/06		9/30/06	On Schedule
TRP-06-513	Remove or Decontaminate the Remaining 236-Z Process Equipment	PI	9/30/06		9/30/06	On Schedule
TRP-06-514	Remove or Decontaminate 189 Gloveboxes and Hoods in 234-5Z	PI	9/30/06		9/30/06	On Schedule
TRP-06-515	Complete 242-Z Initial Entry & Characterization	PI	9/30/06		9/30/06	On Schedule
TRP-06-516	Cleanout Pu & Am Contaminated Gloveboxes and Tanks in 242-Z	PI	9/30/06		9/30/06	On Schedule
TRP-06-517	Dispose of Approximately 600 Pu Nitrate Containers at PFP	PI	9/30/06		9/30/06	On Schedule