

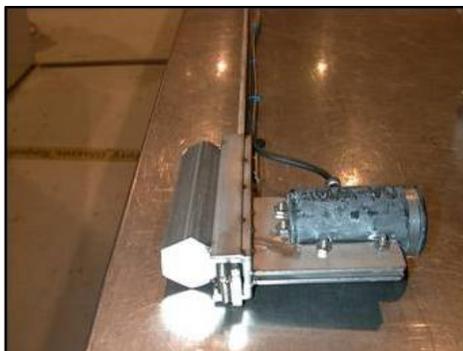
SNF Stabilization and Disposition (RL-0012)

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*Hose-in-Hose Emergency Preparedness Drill in conjunction
with the Fluor Hanford Operational Readiness Review*



*Slide underwater camera and end effector used in the
North Loadout Pit in K East Basin for sludge removal*



Overview

This section addresses work in Project Baseline Summary (PBS) RL-0012, *Spent Nuclear Fuel Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2006.

Notable Accomplishments

SNF Stabilization and Disposition (PBS RL-0012)

Sludge Retrieval and Transfer: K East Basin sludge vacuuming has completed 6,781 of 8,192 cubicles (81 percent complete as of September 20, 2006). Vacuuming of the East Bay and Technical View Pit was completed in August. Vacuuming has started in the North Loadout Pit (NLOP). From the west bay, 123 debris units were removed, and consolidation of small debris into baskets continues.

K West Basin: The Floor and Pit Sludge Removal (FPSR) Authorization Basis (AB) implementation was completed, and support of K East Debris Removal and Sludge vacuuming continued.

Hose-in-Hose (HIH) Project: The last of 39 Construction Acceptance Tests (CATs) was completed. Test reports for single booster station test and Integrated Acceptance Test (IAT) were issued; the K East container 102 lid, grating mod, and lances were installed; all construction field work activities were completed; closeout of all construction (shop fabrication) work packages was completed; the HIH Project closed 23 of 31 construction installation work packages; an awning to improve panel 300 instrumentation readability was installed; and HIH training qualifications for 18 of 26 Operators (NCOs) were completed.

Sludge Treatment Project (STP): Modification 7 was issued to the British Nuclear Group America (BNGA) contract; the Retrieval and Transfer (R&T) Systems 60 percent design review was completed; the Contractor Stabilization and Packaging System (CSAPS) 90 percent design review was completed; hazards analysis/control decision updates for R&T Systems 60 percent design were completed; Preliminary Design Safety Analysis (PDSA) Revision 0 was transmitted to DOE for approval, the Assay System Early Procurement Request was transmitted to DOE for approval; the STP Project Execution Plan was issued; and implementation of recommendations from Fluor Corporate HIH Lessons Learned Effectiveness Review continued (19 of 24 complete).

Issues

K East Sludge Vacuuming: Progress in K East sludge vacuuming was slowed by small debris entrained in the sludge and a decrease in visibility. Mitigation actions taken included:

- Manufacture and use of different end effectors in areas containing small entrained debris/heavy sludge;
- Consultation and implementation of Water Quality Team recommendations on flocculent injection system usage and sand filter back flush rotations to manage visibility;
- Continued utilization of resources from K West to assist in maneuvering/relocating equipment in basin bays/pits to maximize vacuuming operations time;
- Revision to debris removal strategy; and
- Maintenance of spare parts.

Issues, continued

Sludge Transfer – HIH Testing: Construction turnover/Integrated Test Plan (ITP) progress was slower than planned. Mitigation actions taken included:

- Retention of engineering resources to expedite correction of deficiencies;
- Additional resources to ensure proper work package closeout; second shift and improved coordination of test sequencing (learning curve);
- Plans for conducting the remaining CATs (second shift) in parallel with ITP progress on day shift;
- Conduct of Operations (ConOps) mentor reviews of planned process and procedure (three-point communication mentors, installed dedicated phone service line);
- FH HIH support team reviewing readiness preparations and construction acceptance records (and others as identified);
- Emergency Preparedness Drills (with positive results); and
- Judicious use of overtime and second shift coordination.

Sludge Treatment Risk Mitigation: There has been a negative impact resulting from RL's withdrawal of early procurement authority. Mitigating actions taken included:

- Re-planning per DOE direction to reduce risk (procurements tied to PDSA approval) and submittal of Baseline Change Request (BCR) RL-012-016 to DOE documenting cost and schedule impacts;
- Submittal of early procurement requests for Mobile Solidification System (MOSS) (approved) and the Assay system;
- Change to two-step PDSA (Revision 0 for CSAPS and Revision 1 for Handling and R&T systems);
- Refined construction schedule; and
- Continued engagement between FH and DOE senior management.

Delays in the CSAPS design completion have been driven by delayed completion of Hazards Analysis/Control Decisions, their impacts on BNGA design, and the complexity of design. Mitigating actions taken included:

- Deviation Notice (DN) S-06-066 and BCR RL-012-014 documenting realization of identified risk submitted to FH Change Control Board;
- Continued focus on Integration of BNGA engineering and FH Safety Basis efforts;
- Prompt design issue identification and resolution, and timely FH review of submittals consistent with FH STP design review plans;
- Holding an FH/BNGA engineering focus alignment meeting; and
- Continued engagement between FH and BNGA senior management.

FY 2006 Funds vs. Spend Forecast (\$M)

	Projected FY 2006 Funding	FY 2006 Fiscal Year Spend Forecast	Variance
RL-0012 SNF Stabilization & Disposition	\$ 122.6	\$ 117.8	\$ 4.8
Total	\$ 122.6	\$ 117.8	\$ 4.8

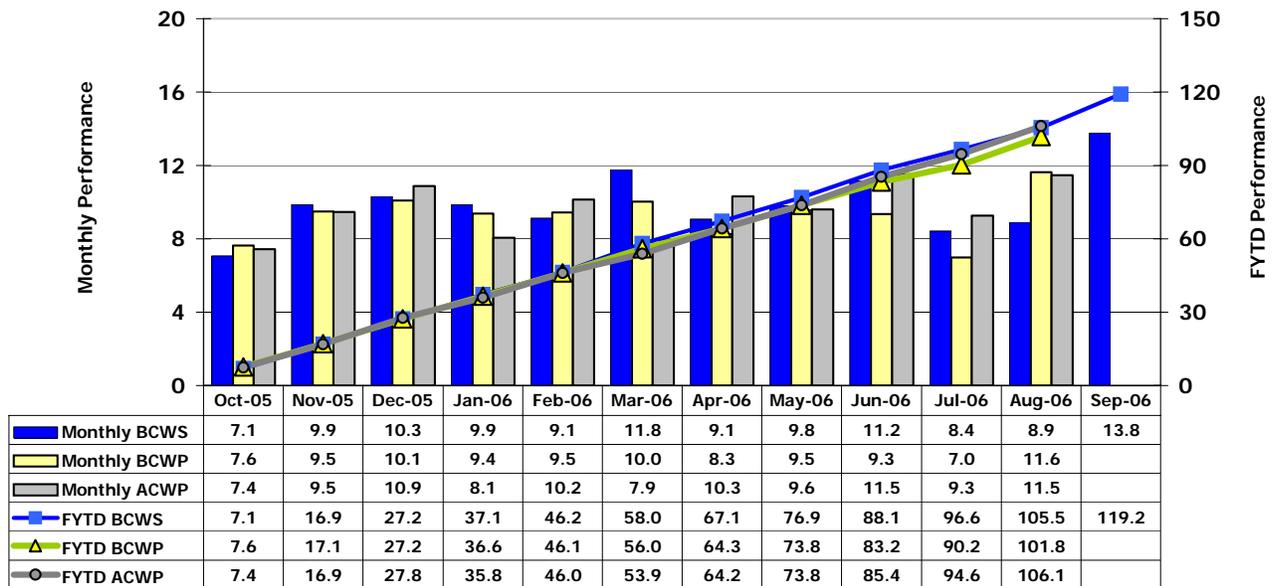
FY 2006 Schedule/Cost Performance (\$M)

		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
RL-0012	SNF Stabilization & Disposition	\$105.5	\$101.8	\$106.1	-\$3.7	-3.5%	-\$4.3	-4.2%	\$119.2
Total		\$105.5	\$101.8	\$106.1	-\$3.7	-3.6%	-\$4.3	-4.2%	\$119.2

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

- **Schedule Performance (-\$3.7M/-3.6%):** Schedule variance is within threshold.
- **Cost Performance (-\$4.3M/-4.2%):** Cost variance is within threshold.

Performance Analysis FYTD and Monthly (\$M)



Milestone Achievement

Number	Milestone Title	Type (TPA/PI/DNFSB)	Due Date *	Actual Date	Forecast Date	Status / Comments
M-034-33B (S10-05-018)	Complete K East Sludge Containerization	TPA	03/01/05		10/17/06	Behind Schedule: not included in TPA change
DNFSB 119E (S10-05-014)	Complete K East Bulk Sludge Consolidation	DNFSB	10/31/06		10/17/06	Ahead of Schedule
M-034-34 (S10-05-010)	Complete Removal of K East Sludge	TPA	05/31/07		01/19/07	Ahead of Schedule
DNFSB 120E (S10-05-015)	Complete K East Basin Containerized Sludge Removal	DNFSB	05/31/07		01/19/07	Ahead of Schedule
DNFSB 122E	K East Final Pass Sludge Removed	DNFSB	05/31/07		03/28/07	Ahead of Schedule
M-034-35a (S10-05-011)	Containerize K West Bulk Sludge	TPA	07/31/07		06/05/07	Ahead of Schedule
DNFSB 119W (S10-05-016)	Complete K West Bulk Sludge Containerization	DNFSB	07/31/07		06/05/07	Ahead of Schedule
M-034-35b (S10-05-011)	Complete K West Final Pass	TPA	01/31/08		07/02/07	Ahead of Schedule

* DOE RL and FH are completing negotiations of Performance Incentives.

New activities will be reported next month.

* DNFSB dates reflect Implementation Plan update, TPA dates reflect change package M-34-05-04, forecast dates are current working level schedules.