

Summary

The Spent Nuclear Fuel (SNF) mission consists of the Spent Nuclear Fuel Project WBS 1.3.1.1 (Project Baseline Summary [PBS] WM01) and the subsequent Canister Storage Building (CSB) Operations Project WBS 1.3.2.1 (PBS WM02), which doesn't start until FY 2004.

The Canister Storage Building (CSB) is 94 percent complete, compared to 96 percent planned. The Cold Vacuum Drying (CVD) Facility is 92 percent complete compared to 94 percent planned.

The SNF Project continued testing of energized components (i.e., calibration, loop tests, equipment approach) at the Cold Vacuum Drying (CVD) Facility. RL issued the Safety Evaluation Report for the CVD Annex to SNF Project FSAR with conditions for approval.

Fabrication of production Multi-Canister Overpacks (MCO) and MCO baskets continued at Joseph Oat, Inc. and the Hanford Site respectively.

Preparations continued for initiation of cold testing of the K West Basin Fuel Retrieval System and Integrated Water Treatment System. The contractor management review indicated systems were not ready to initiate testing on December 31, 1999, as had been planned. Reinitiating of the management review in late January 2000 is anticipated, pending resolution of identified deficiencies.

Fiscal year-to-date milestone performance (EA, DOE-HQ, and RL) shows one of one milestones (100 percent) is overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

Accomplishments

- CSB project is 94 percent complete vs. 96 percent planned.
- CVD Facility is 92 percent complete vs. 94 percent planned.
- The Safety Evaluation Report (SER) for the CVD Annex for the SNF Project FSAR was issued by RL, with conditions for approval, as scheduled.
- Installation of drain valve covers was completed at the K Basins and associated Unresolved Safety Questions (USQs) were closed.

Cost Performance (\$M):

	BCWP	ACWP	VARIANCE
Spent Nuclear Fuels	\$33.8	\$44.6	-\$10.8

The \$10.8 million (31.9 percent) unfavorable cost variance is primarily a result of Cold Vacuum Drying engineering and testing costs higher than planned; startup and testing activities; Safety Analysis Reports and K Basin KE Facility Modifications cost overruns.

Schedule Performance (\$M):

	BCWP	BCWS	VARIANCE
Spent Nuclear Fuels	\$33.8	\$43.5	-\$9.7

The \$9.7 million (22.3 percent) unfavorable schedule variance is due primarily to Facility Modifications KE Construction; Canister Storage Building Construction Contract; K Basin Modular Office Trailers and Integrated Water Treatment System KE Construction.

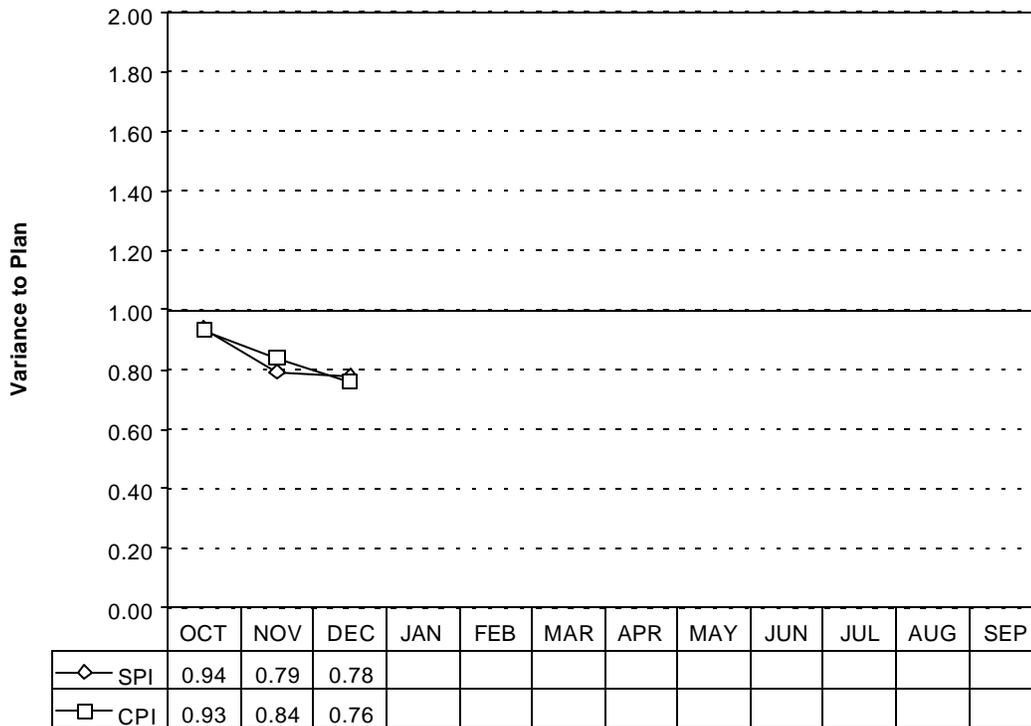
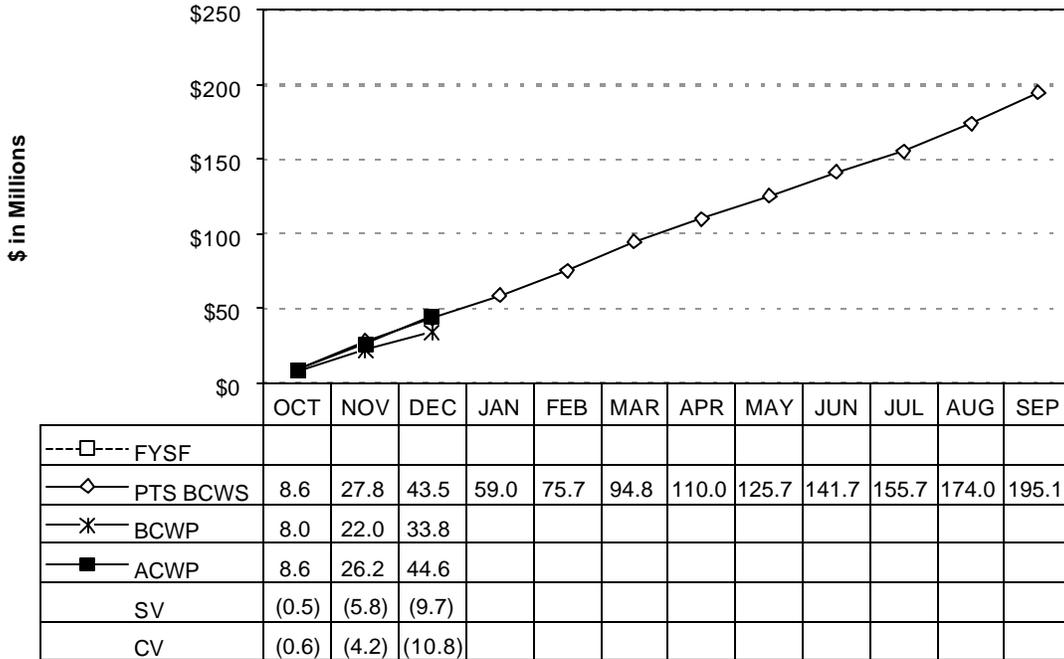
Issues

MCO Quality Assurance Requirements: The U.S. Department of Energy, Richland Operations Office (RL) provided direction to Fluor Daniel Hanford, Inc. to include the Multi-Canister Overpacks (MCOs) and the MCO baskets on the Hanford Site's Office of Civilian Radioactive Waste Management Quality Assurance program Q-List. The additional quality assurance requirements will affect the cost but will not have any impact on the schedule for fabrication of the MCO and baskets.

Strategy/Status: Baseline change requests have been developed to define the impacts and to provide the authorization to place the MCOs and the MCO baskets on the Q-List. The BCRs are in the approval process. Clear definition of the SNF Project's interpretation of required actions to satisfy the RL guidance has been documented to RL. Effected implementation date to satisfy OCRWM QARD requirements for new work is March 8, 2000.

Spent Nuclear Fuels WBS 1.3

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES Cumulative to Date Status



Spent Nuclear Fuels WBS 1.3

		FYTD					AUTH	PTS
1.3		BCWS	BCWP	ACWP	SV	CV	BSLN	BCWS
PBS								
WM01	Expense	31.5	27.7	33.2	(3.8)	(5.6)	152.7	152.7
Spent Nuclear Fuel	CENRTC	4.7	1.7	3.1	(3.0)	(1.4)	18.6	18.6
	GPP/LI	7.3	4.4	8.2	(2.9)	(3.8)	23.8	23.8
Sub-Total WM01		43.5	33.8	44.6	(9.7)	(10.8)	195.1	195.1
WM02	Expense	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage Canister	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Total WM02		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		31.5	27.7	33.2	(3.8)	(5.6)	152.7	152.7
	CENRTC	4.7	1.7	3.1	(3.0)	(1.4)	18.6	18.6
	GPP/LI	7.3	4.4	8.2	(2.9)	(3.8)	23.8	23.8
Total		43.5	33.8	44.6	(9.7)	(10.8)	195.1	195.1

\$ In Millions

COST VARIANCE ANALYSIS: (-\$10.8M)

WBS/PBS

Title

1.3.1.1/WM01 Spent Nuclear Fuel

Description and Cause: Of the \$10.8 (31.9 percent) million unfavorable variance, \$3.3 million is due to engineering and testing costs for the Cold Vacuum Drying Facility exceeding plan; \$1.4 million for startup and testing activities; \$1.2 million for Safety Analysis Reports not budgeted in FY 2000 and \$.9 million for (K Basin Facility modifications overrun resulting from KE mezzanine) removal punchlist items, panel 9 installation and MEI reroute.

Impact: These overruns were anticipated changes foreseen during the contingency analysis and will be allocated through baseline change control. Essentially all contingency will be utilized.

Corrective Actions: SNF Project will continue to look at cost efficiencies to replenish contingency.

SCHEDULE VARIANCE ANALYSIS: (-\$9.7M)

WBS/PBS

Title

1.3.1.1/WM01 Spent Nuclear Fuel

Description and Cause: Of the \$9.7 million (22.3 percent) unfavorable schedule variance, \$2.5 million is due to KE Construction of the Facility Modifications resulting from resources to support KW Punchlist & Testing; \$2.2 million for the Canister Storage Building Construction Contract is inconsistent with baseline, but meets end date; 1.1 million for the Modular office trailer behind schedule (no impact); and \$0.7 million for Integrated Water Treatment System KE construction due to design/fabrication rebid.

Impacts: All projects continue to support the fuel move date of November 30, 2000. Deliveries will support Tri-Party Agreement dates. Although variances are not currently negatively affecting planned fuel movement; negative impacts could result if work around plans are not accomplished.

Corrective Actions: SNF Project is developing, analyzing, and implementing recovery plans designed to mitigate schedule variances. All recovery plans support the November 2000 fuel movement milestone.

Spent Nuclear Fuels – WBS 1.3 Milestone Achievement

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	2	0	2
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	1	0	4	0	5
Total Project	0	0	0	1	0	6	0	7

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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Overdue – 1

S07-97-053	RL	CSB FSAR and Project FSAR Approval	12/21/1999	03/01/00
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1.3.1

Cause: Changes in strategy of controls of the Multi-Canister Overpack Handling Machine due to electrical separations issues.

Impact: No impacts to limiting path activities.

Corrective Action: BCR SNF-2000-002 has been issued for approval. This change request will modify the baseline schedule to reflect a new FSAR approval date.

Forecast Late – 0