



Section C:2

River Corridor

PROJECT MANAGERS

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SUMMARY

The River Corridor Project (RCP) consists of the following projects: 300 Area Liquid Effluent Facility (LEF) WBS 1.2.3.2, Project Baseline Summary (PBS) WM05; 300 Area/Special Nuclear Materials, WBS 1.4.4, PBS TP04; Transition Project Management, WBS 1.4.6, PBS TP12; Accelerated Deactivation, WBS 1.4.8, PBS TP10; 324/327 Facility Transition, WBS 1.4.10, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11, PBS TP14.

PBS WM05 is divided between WBS 1.2.3.1, Liquid Effluents (200 LEF) and WBS 1.2.3.2, 310 TEDF/340 Facility (300 LEF). The 310 TEDF/340 Facility work scope is now included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope has remained in Waste Management Project. For the purpose of performance analysis, PBS WM05 is reported in its entirety in the Waste Management Project, which has the majority of the work scope and funding incorporated in its baseline.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of August 31, 2001. All other information is as of September 26, 2001.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that three milestones (75 percent) were completed on or ahead of schedule and one milestone was completed late.

NOTABLE ACCOMPLISHMENTS

The 324 Building Deactivation Project — Skids and HEPA filters in D Cell were removed and size reduced and six grout containers were packaged and shipped to the 200W Burial Grounds, which completed milestone TRP-01-946 eleven days early. In addition, the fifty percent design review for Spent Nuclear Fuel Transfer fuel handling tools was completed; and fabrication of the robot lifting fixture and support stand to support the pipetrench cleanout were completed.

327 Building Deactivation Project — Through effective deployment of minimum safety (min-safe) staff, thirteen of the remaining 30 PNNL legacy waste buckets have been loaded into drums for shipment, and the remaining seventeen were consolidated into A Cell for packaging. In support of inventory removal in the dry storage carousel, four cans of irradiated material were removed, leaving an inventory of eight cans. Additionally, all work was completed on the installation of the two backflow preventers on the fire suppression system.

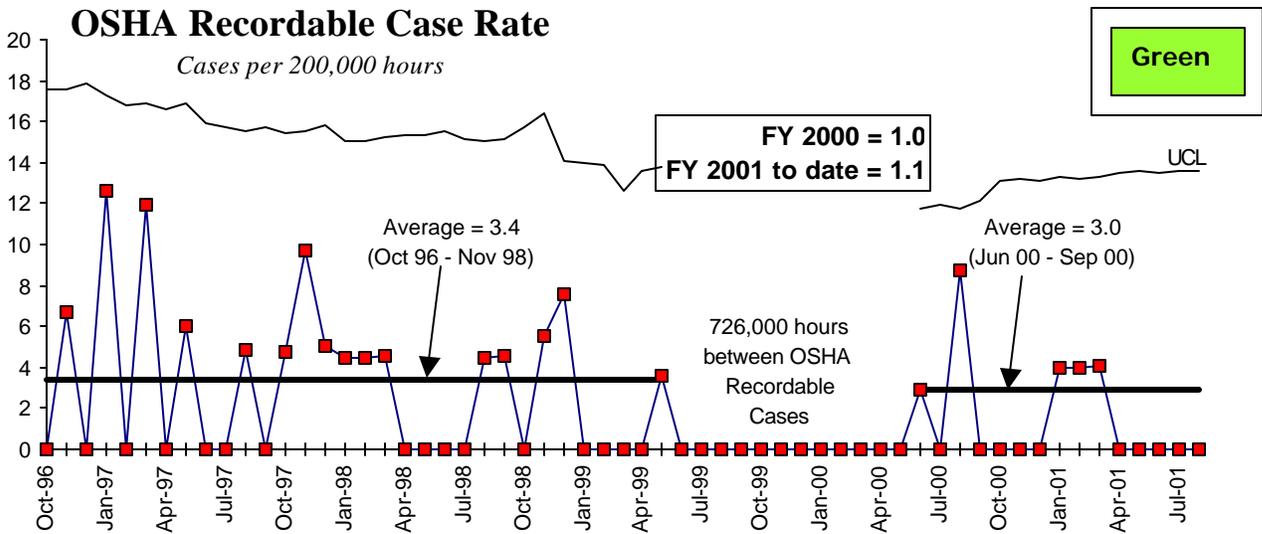
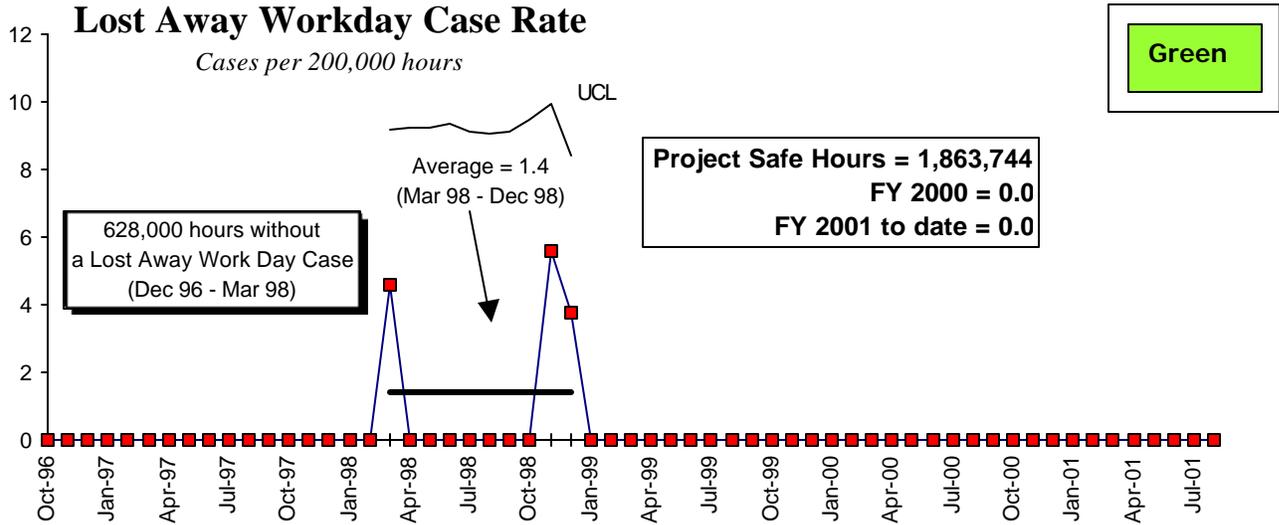
The 300 Area Treated Effluent Disposal Facility (TEDF) — During the month of August, the TEDF Facility treated 6.2 million gallons of wastewater. The 340 Vault gamma camera evaluation was completed and the preliminary results indicate higher than planned activity in the vault versus the tank. In addition, the Radioactive Liquid Waste System line in Valve Box 11 was successfully isolated from its source within the 324 Building.

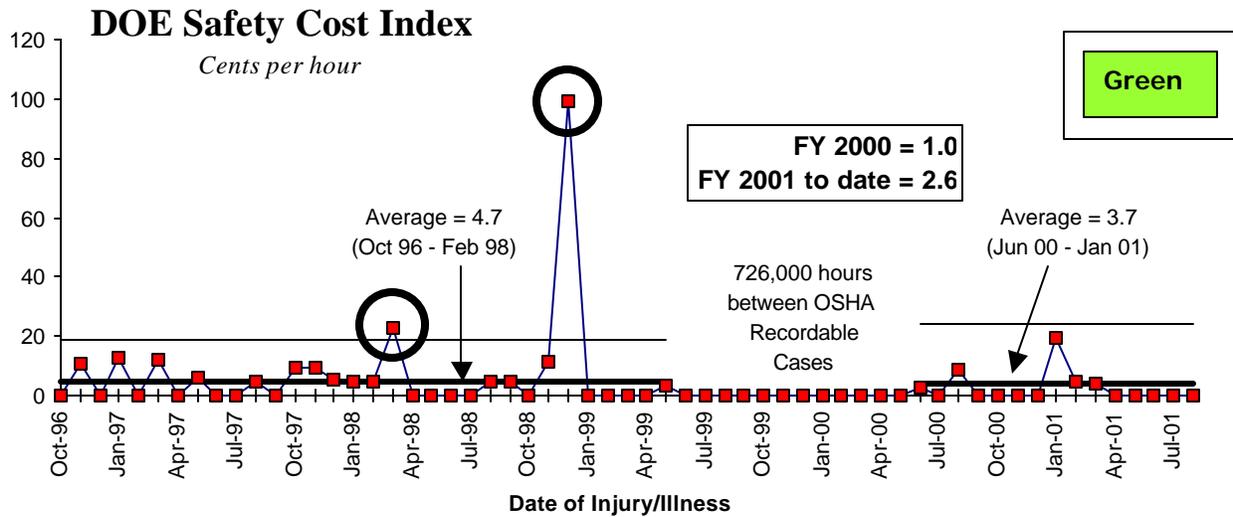
Accelerated Deactivation Project — Water towers 3902A and 3902B have been size-reduced and disposed of in the Low-Level Burial Grounds (LLBG); demolition of 303K to grade and disposal of waste was completed; and the final uranium disposition activities planned for FY 2001 were completed. The non-destructive assay (NDA) for phase I characterization of E and F Cells at 224-T was completed. Additionally, the transfer of twenty-four facilities from PNNL to Fluor Hanford (FH) was completed pending final approval from the Department of Energy Headquarters (DOE-HQ).

Equipment Disposition Project — Waste characterization was performed in support of the planned October shipment of the second and third of four tall well cars from Hanford to Memphis, TN. Also, two additional pieces of heavy equipment were surveyed and will be turned over to FH investment recovery.

SAFETY

The River Corridor Project (RCP) has achieved more than 1.8 million safe work hours since its last lost away workday case. The OSHA Recordable Case Rate is 1.1. The overall rating for RCP is green.





ISMS STATUS

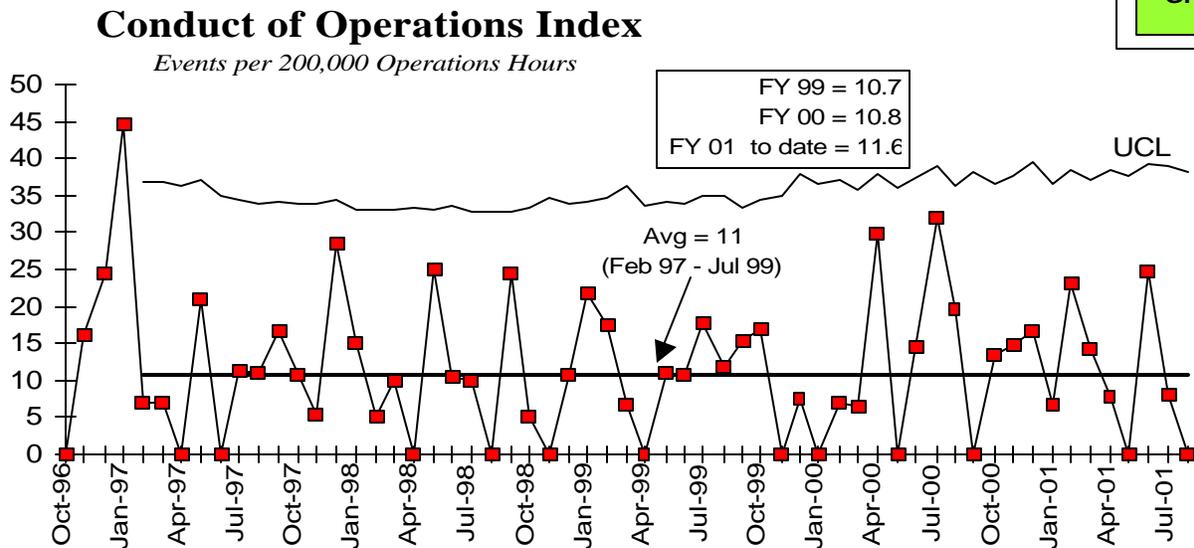
Green

The River Corridor Project (RCP) ISMS "Sustain and Maintain" process is in place. RCP is supporting the update of the FH annual ISMS training module and development of an ISMS/VPP Communications Plan through the ISMS Center of Expertise.

RCP's VPP application was received by DOE-HQ, a team assembled, and the VPP review scheduled for the week of October 15.

CONDUCT OF OPERATIONS

Green



BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Technical Review of 327 Hot Cell Removal— Technology Management, supported by RCP, completed a review of the feasibility of intact removal of the hot cells from the 327 Facility. The review team found the concept of intact removal to be feasible, to have potentially significant As Low As Reasonably Achievable (ALARA) benefits, and that it could reduce the cost by \$2M to \$4M. A hot cell characterization strategy is being prepared to establish the data quality objectives, identify techniques for obtaining necessary data, and to identify the optimal disposal site. The characterization strategy will be issued in December.

Green

Permit By Rule Treatment at 300 Area TEDF— FH is investigating the potential to treat limited categories of liquid non-radioactive hazardous wastes using the existing capabilities of the 300 Area TEDF by applying a permit exclusion available within the waste regulations. Treatment of hazardous wastes at TEDF could provide a low-cost option for disposal of some wastes currently sent off-site. The regulatory analysis is complete, and for the next two months the benefits and site needs for waste treatment will be compared against the costs and risks of implementing the treatment. A decision on whether to proceed will be made during the first quarter of FY 2002.

Green

Opportunities for Improvement

Conduct of Operations Improvement Initiative - RCP has initiated a Conduct of Operations Improvement Plan to improve organizational performance, and to create a culture change regarding effective implementation of Conduct of Operations principles. The RCP has completed the first month of the Conduct of Operations Improvement Plan. Each facility and participating organization has spent time reviewing its Conduct of Operations Matrix, identifying areas of improvement and communicating results to the staff. As expected, different levels of completion were achieved. However, the project is off to a good start and is well into the second month of assigned activities. Project directors will provide a summary review of progress to the RCP Vice President at the two, four and six-month milestones.

Green

UPCOMING ACTIVITIES

324 Building — Begin cleanout of pipetrench to include the placement of the robot by September 30, 2001.

Spent Nuclear Fuel Transfer — Conduct 90% design review of Spent Nuclear Fuel packaging and transportation system by mid-October 2001.

327 Authorization Basis (AB) — The technical update of the 327 Authorization Basis (originally due in May 2001) will be submitted to RL by mid-October 2001.

Tall Well Cars — The second and third of four tall well cars will be shipped to Memphis, TN. during October 2001.

224-T Phase I Characterization — Complete Phase I characterization on the remaining five cells at 224-T by December 31, 2001.

Milestone Achievement

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	1	0	0	0	0	1
DNFSB	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	1	2	0	0	0	1	0	4
Total Project	1	2	1	0	0	1	0	5

Only TPA/EA milestones and all FY 2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY 2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones		
Number	Milestone Title	Status
M-89-02	Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B-Cell Mixed Waste (MW) and Equipment.	M-89-02 is complete.
DNFSB Commitments		
Nothing to report at this time.		

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 – 0

FY 2002 Tri-Party Agreement / EA Milestones		
Number	Milestone Title	Status
MX-92-06-T01	"Complete Disposition for all Site Unirradiated Uranium"	Due 12/31/01 – On schedule.
DNFSB Commitments		
Nothing to report at this time.		

PERFORMANCE OBJECTIVES

Outcomes	Performance Indicator	Status
Restore the River Corridor for Multiple .	FHI-M8 – 300 Area Cleanup	
	Measure 1: Accelerate 300 Area Cleanup	
	Expectation 1: Deactivate 324/327 Buildings	
	Base: Complete 26.5% remaining 324/327-baseline work by June 30, 2002.	Of the remaining life-cycle work scope, 13.1 percent was completed during the period of October 2000 through August 2001.
	Base: Complete B Cell cleanout and shipment of B Cell waste to 200 Area Burial Grounds.	Complete.
	Stretch: Complete additional 2.5% remaining 324/327-baseline work.	No additional work scope has been performed to date.
Transition Central Plateau to support long-term waste .	Expectation 2: Disposition surplus facilities	
	Base: Disposition 3902A, 3802B & 303-K by September 30, 2001.	Completed 3902A and 3902B water tower dismantlement, size-reduction, and disposal in the LLBG. Demolition of 303K to grade and disposal of waste was completed.
	Stretch: Disposition 377 Bldg. by June 30, 2002.	The Engineering Evaluation/Cost Analysis (EE/CA) #1, which includes the 377 Building demolition scope, was completed and submitted to RL. However, a decision was made by RL not to proceed with the EE/CA process at this time. The work scope will now need to be performed under RCRA vs. CERCLA disposition regulations.
	Expectation 3: Disposition uranium billets, uranium dioxide, scrap materials in 200/300 Areas, and 303-K thorium-232 by September 30, 2001.	Complete.
	Measure 2: Support RCP Contract Transition	
	Expectation 1: Stretch: Support RCP contract transition by July 1, 2002.	A draft transition plan has been prepared.
Transition Central Plateau to support long-term waste .	FHI-M3 – 200 Area Facility Disposition	
	Measure 1: Disposition Surplus Buildings and Rolling Stock	
	Expectation 1: Base: Decontaminate & Decommission (D&D) 233-S & 233-SA Facilities by September 30, 2004.	Work will be initiated July 1, 2002.
	Stretch: D&D 233-S & 233-SA by June 30, 2004.	Work will be initiated July 1, 2002.
	Expectation 2: Complete installation of new roofs on PUREX & B Plant by September 30, 2002.	Work will be initiated February 1, 2002.

Expectation 3:

Base: Disposition contaminated railcars by June 30, 2006.

Stretch: Disposition contaminated railcars by August 31, 2005.

Super stretch: Disposition contaminated railcars and heavy equipment by September 30, 2003.

Waste characterization is being performed in support of the planned October shipment of the second and third of four tall well cars from Hanford to Memphis, TN.

Nothing to report.

Two pieces of regulated heavy equipment have been surveyed and will be released for beneficial reuse. Two additional pieces are in process.

FY 2001 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)



By PBS		FYTD									
		BCWS	BCWP	ACWP	SV	%	CV	%	BAC	EAC	
PBS TP04	300 Area/ Special Nuclear	\$ 3,937	\$ 3,845	\$ 3,624	\$ (92)	-2%	\$ 221	6%	\$ 4,426	\$ 4,671	
WBS 1.4.4	Materials										
PBS TP12	Transition Program	\$ 6,112	\$ 6,102	\$ 5,800	\$ (10)	0%	\$ 302	5%	\$ 6,747	\$ 6,364	
WBS 1.4.6	Management										
PBS TP10	Accelerated Deactivation	\$ 3,386	\$ 3,280	\$ 3,370	\$ (106)	-3%	\$ (90)	-3%	\$ 3,611	\$ 3,804	
WBS 1.4.8											
PBS TP08	324/327 Facility Transition	\$ 30,589	\$ 30,153	\$ 28,061	\$ (436)	-1%	\$ 2,092	7%	\$ 34,482	\$ 33,504	
WBS 1.4.10											
PBS TP14	Hanford Surplus Facility	\$ 873	\$ 842	\$ 786	\$ (31)	-4%	\$ 56	7%	\$ 1,345	\$ 1,238	
WBS 1.4.11	Program (300Area Revitalization)										
Total		\$ 44,898	\$ 44,221	\$ 41,641	\$ (676)	-2%	\$ 2,580	6%	\$ 50,611	\$ 49,581	

Notes: RL-Directed costs (steam and laundry) are included in the PEM BCWS. 310 TEDF/340 Facility performance data is reported under PBS WM05 (Waste Management).
Authorized baseline is per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM).

FY TO DATE SCHEDULE / COST PERFORMANCE

The unfavorable schedule variance of \$0.7M (2 percent) is within established thresholds. The favorable cost variance of \$2.6M (6 percent) is primarily due to lower than planned FY 2001 fee accruals and efficiencies realized in execution of min-safe tasks.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

Schedule Variance Analysis: (-\$.7M)

All schedule variances are within threshold.

Cost Variance Analysis: (+\$2.6M)

324/327 Facility Transition — 1.4.10/TP08

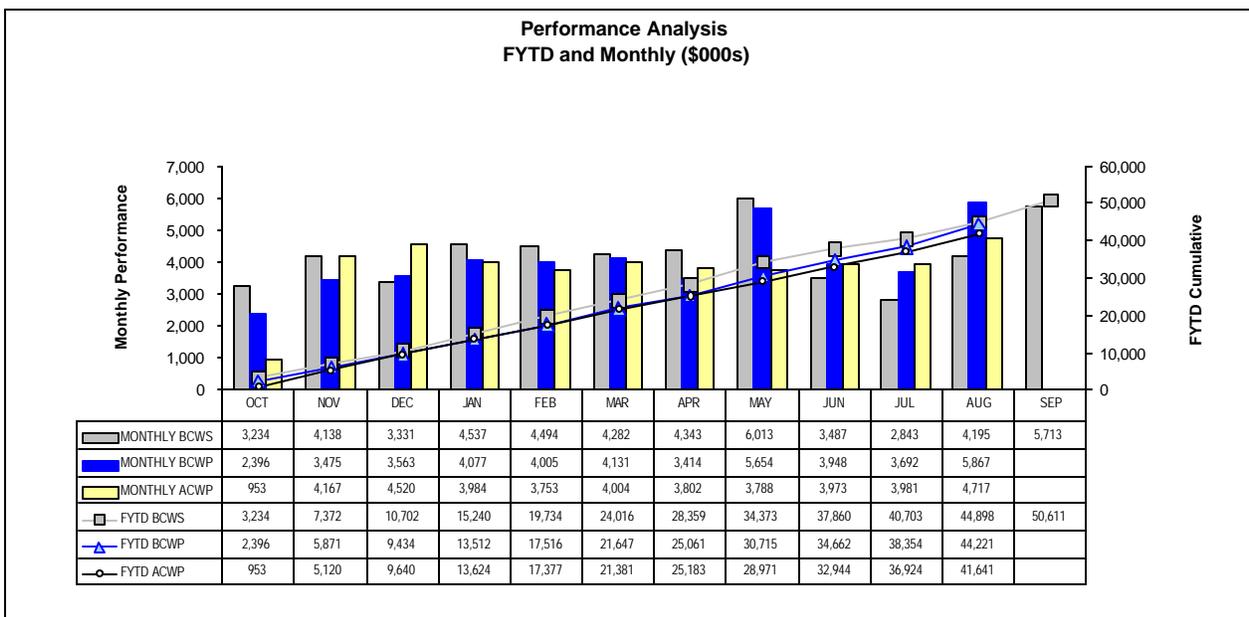
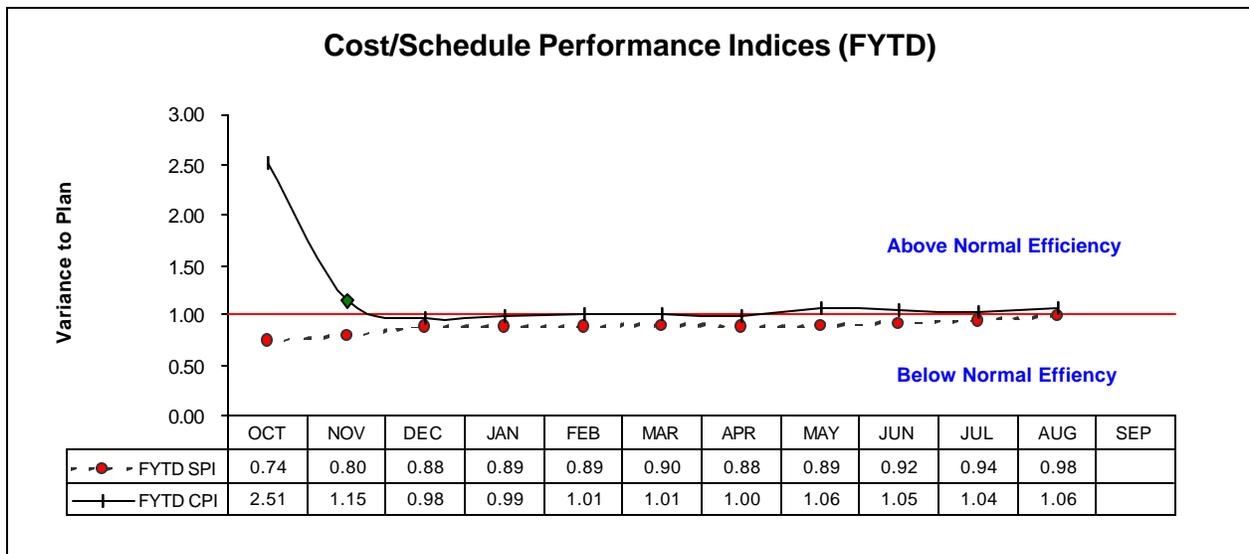
Description and Cause: The favorable cost variance was due to efficiencies realized from the 327 Facility Min-safe activities, lower than planned FY 2001 fee accruals, crane parts costing less than expected and favorable variance distributions received earlier in the year.

Impact: No Impact. Underruns will be utilized to support other high priority project work scope including outyear deactivation work scope.

Corrective Action: No corrective action required.

All other cost variances are within established thresholds.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)



FUNDS MANAGEMENT FUNDS VS SPENDING FORECAST (\$000) FY 2001 TO DATE

	Funds	FYSF	Variance
1.4 River Corridor			
TP01, TP04, TP10, TP12, TP14, WM05			
Project Completion - Operating	\$ 49,228	\$ 45,835	\$ 3,393
Post 2006 - Operating	\$ 5,637	\$ 5,111	\$ 526
Total	\$ 54,865	\$ 50,946	\$ 3,919

[Status through August 2001]

Note: Does not include RL Managed data or post-2006 TP10 (\$649).

ISSUES

Technical Issues

Issue: Characterization activities at 224-T and 231-Z are impeded by the suspension of the non-destructive assay (NDA) program at the Plutonium Finishing Plant (PFP). The PFP program has been suspended due to problems associated with specific plutonium value calculations resulting from NDA measurements.

Impact: Delays characterization activities for both 231-Z and 224-T. These delays impact Master Documented Safety Analysis development, Fire Hazards Analysis, and Emergency Planning Hazard Analysis. These activities tie into the Safety Analysis Report compliance issues per the 830 Rule. In addition, there is a potential cost impact if an outside organization is used.

Corrective Action: The RCP contracted with PNNL and validated their approach to remote NDA activities at 224-T. The NDA has been completed on cells E and F with no problems, and will continue for the rest of the 224-T building. *(This is the last report for this item.)*

Issue: Uranium contamination was found on the 3902A and 3902B water towers.

Impact: There are adverse cost and schedule impacts.

Corrective Action: RCP will bury rather than recycle materials. Water towers 3902A and 3902B were size reduced and disposed of in the LLBG. *(This is the last report for this item.)*

REGULATORY ISSUES

Issue: Soil contamination in the vicinity of the 303-K water isolation valve exceeds the NOC permit.

Impact: 303-K demolition may have to proceed around the water line – could have a cost impact.

Corrective Action: Proceed along two parallel paths:

- 1) Modify the 303-K demolition NOC to allow excavation of the affected soil. Modification of the NOC has been transmitted by RL to the Washington State Department of Health.
- 2) The BHI demolition plan leaves the water line in place. Demolition of 303K is complete. *(This is the last report for this item.)*

EXTERNAL AND DOE ISSUES

None to report.

DOE Requests

None to report.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	FY00 COST IMPACT	SCH	TECH	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
FSP-2001-056	5/24/01	Transfer of PNNL facilities to Fluor Hanford	\$526	X	X				Reactivated, transfer agreement signed
FSP-2001-058	6/1/01	Revised Milestones for RL-TP04	\$0		X	06/20/01			Returned without action by DOE - 9/12/01
ADVANCE WORK AUTHORIZATIONS									
		None							

KEY INTEGRATION ACTIVITIES

- Potential Technology Funding for 327 Building Deactivation** - The current FY 2002 planning budget for EM50's Transuranic (TRU) and Mixed Waste Focus Area (TMFA) as managed from Idaho National Engineering and Environmental Laboratory, now targets \$790K for technology tasks focused on waste equipment size reduction at Hanford. In top consideration for a portion of this funding are opportunities at the 327 Building (e.g., detachment of H Cell using diamond wire cutting; removal and size reduction of an IX-column presently stored in the 327 wet basin; and removal and size reduction of heating, ventilation, and air conditioning ducting). If funded, this project would be a collaborative effort for FH, the TMFA, and PNNL/EM50's Robotics Crosscutting Group. As of September 25, 2001, no decision has been made.
- West Valley Hot Cells Proposal Resubmitted to EM50** - Based on a request from EM50, the Large Scale Demonstration and Deployment Project proposal for West Valley (NY) hot cell deactivation was rewritten, and then resubmitted on May 2, 2001, for funding consideration. This proposal was initially submitted to EM50 in September 2000, but was not selected for the first round of awards. In late August 2001, DOE announced a decision to fund this initiative. EM50 is providing \$650K in September 2001 and another \$650K in early FY 2002. RCP will participate on the Integrated Contractor Team for influencing hot cell technologies to be demonstrated at West Valley, and potentially transferred to Hanford (e.g., 324 and 327 Facilities). The Integrated Contractor Team is comprised of WGI / West Valley Nuclear Services, Sciencetech, Battelle Columbus - West Jefferson Laboratory, PNNL, and Fluor Hanford.