



Section J

200 Area Materials & Waste Management

PROJECT MANAGERS

G.H. Sanders, RL
(509) 376-6888

J.A. Van Vliet, DFSH
(509) 373-0402

INTRODUCTION

The 200 Area Materials and Waste Management consists of Project Baseline Summary (PBS) RL-CP02, Work Breakdown Structure (WBS) 3.3.2, except for ERDF.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2002.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that one milestone was completed early.

NOTABLE ACCOMPLISHMENTS

Accelerate Readiness to Receive SNF K Basin Sludge — The RL Operational Readiness Review was completed. Initiated removal of Shippingport Fuel from T Plant in August.

Mixed Low Level Waste (MLLW) Treatment $\frac{3}{4}$ Completed seven shipments of debris to ATG for treatment under the new contract. Received formal concurrence from RL to use the balance of the ATG technology demonstration funds for a demonstration of thermal desorption at Perma-Fix. Completed disposal of 80 m³ of PFP HEPA filters from the Central Waste Complex inventory. Received certificate of disposition for the EC-1 condenser, which was melted down (recycled) at Duratek's Bear Creek Facility in Oak Ridge. This will contribute 32 m³ toward the MLLW Performance Incentive.

TRU Waste Retrieval $\frac{3}{4}$ Work continued on developing a mock-up TRU Retrieval trench that will be used to demonstrate retrieval techniques and to train personnel. Construction of the drum module within the trench was completed.

Liquid Waste Processing $\frac{3}{4}$ Processed over 24 million gallons of wastewater through the 200 Area Effluent Treatment Facility (ETF) thus far in FY 2002, providing essential support to a wide variety of site cleanup activities.

Plutonium Finishing Plant (PFP) Support $\frac{3}{4}$ Three shipments totaling 45 drums of Sand, Slag and Crucible (SS&C) waste were received for storage in support of the Residues Project during August 2002.

300 Area Cleanup Support $\frac{3}{4}$ Completed revisions and submissions of transportation and facility safety basis documents to support fuel removal at 324. Continued support for removal of legacy wastes at both 324 and 327 buildings.

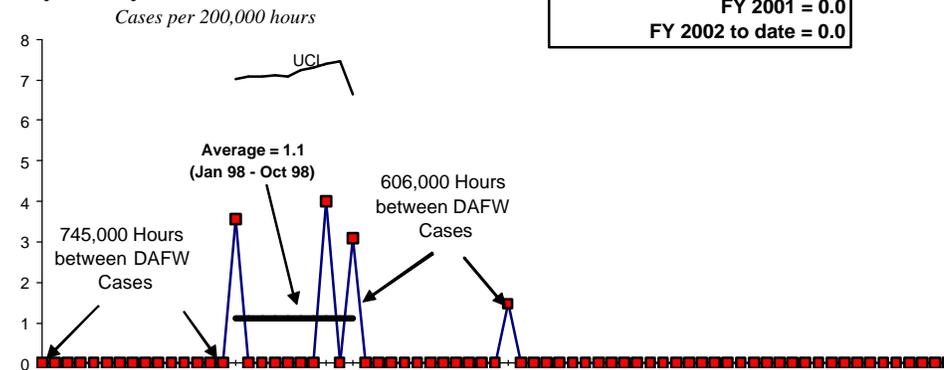
TRU Waste Shipments $\frac{3}{4}$ Completed the first FY 2002 waste shipment to WIPP in August 2002. A second shipment has been approved for September 2002.

Waste Encapsulation and Storage Facility (WESF) Operations $\frac{3}{4}$ Completed K-1 exhaust filter replacement and aerosol testing. Shipped contaminated waste cask trailer for disposal. Completed 282B deep well pump upgrades.

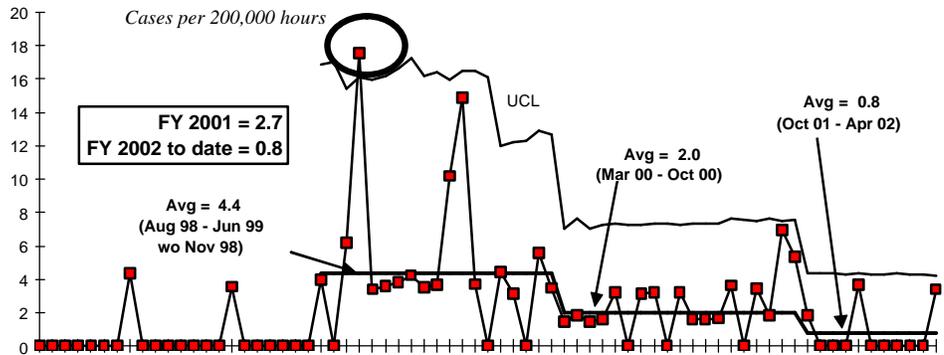
SAFETY

At the end of August 2002, Waste Management reached 4.0 million safe work hours. The last days away injury occurred in October 1999. Fiscal year to date there have been five OSHA recordable injuries, resulting in a Recordable Incident Rate (IR) of 0.8 at the end of August. The FH annual goal is 0.9. As a result of delays in initial submittal of the project's VPP application and the subsequent loss of momentum, VPP communications plan is being implemented. The objective is to help re-invigorate and promote employee awareness and understanding of safety and health processes as they relate to VPP principals. The annual VPP self-assessment is scheduled for October, followed by submittal of the formal application in November.

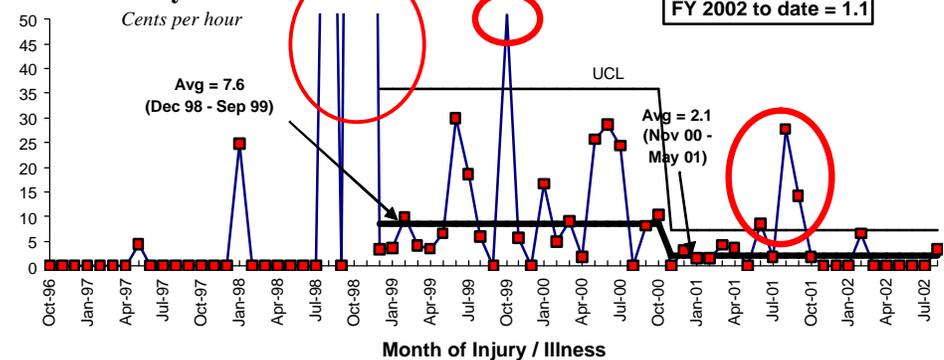
Days Away From Work Case Rate



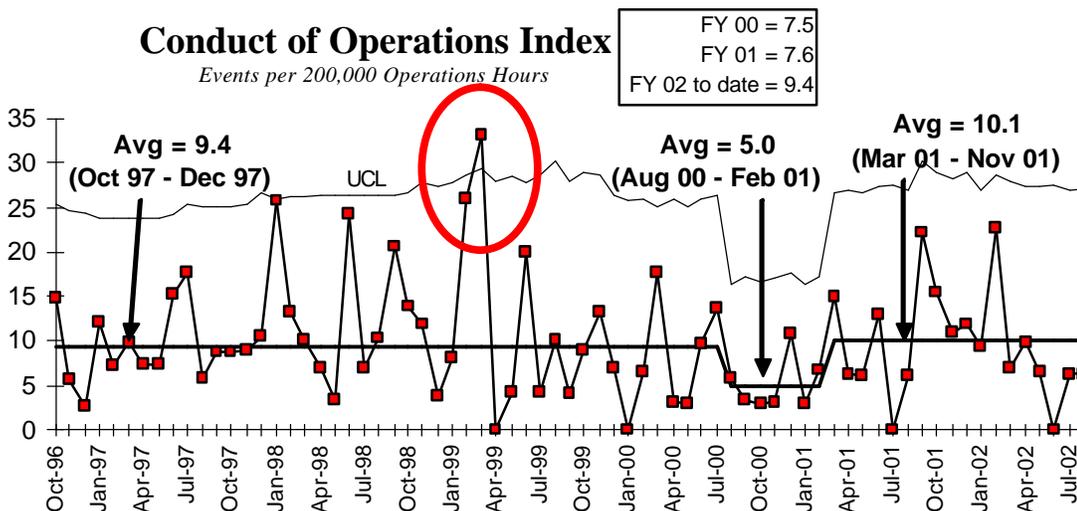
OSHA Recordable Case Rate



DOE Safety Cost Index



CONDUCT OF OPERATIONS



BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement are identified at this time.

UPCOMING ACTIVITIES

Accelerate Readiness to Receive SNF K Basin Sludge — 1) Complete movement of Shippingport (PA) fuel, 2) Support activities to receive and store K Basin sludge, and 3) Accelerate T Plant Canyon cell cleanout.

MLLW Treatment — Receive treated waste from ATG. Evaluate their treatment under the contract and decide whether to exercise options in FY 2003. Prepare for FY 2003 shipments to ATG under the option. Establish a contract with Perma-Fix to perform the thermal desorption technology demonstration. Begin shipping waste that requires thermal treatment to Perma-Fix for the demonstration. Evaluate the possibility of disposing of 183-H basin waste at Environmental Restoration Disposal Facility under a CERCLA decision.

TRU Waste Shipments — A second shipment of TRU drums to WIPP is planned in September 2002.

TRU Waste Retrieval — Continue preparations for the TRU Retrieval mockup. Plan to backfill, and excavate to demonstrate excavation techniques. A new contractor is being brought on board to complete the revisions to the Documented Safety Analysis (DSA). The new contractor will be on board in October.

Plutonium Finishing Plant Support — Continue to support residues processing with shipment of the new Sand, Slag and Crucible waste stream through FY 2003.

300 Area Cleanup Support — Continue support to the 324 Fuels Removal Project, 327 Facility Cleanout, and the 300 Area Accelerated Closure Project.

Waste Encapsulation and Storage Facility (WESF) Operations — Complete K-1 exhaust fan repairs. Perform annual inner capsule movement test. Complete K-3 duct modification. Support the accelerated capsule disposition initiative.

Liquid Waste Processing ³/₄ Continue wastewater processing through the 200 Area ETF. The 242-A Evaporator campaign which was planned for September has been postponed to October. The ETF will be restarted after having been shutdown for several weeks. A short maintenance outage was completed at ETF, but CHG was unable to complete Tank Farms activities to support an Evaporator campaign as planned.

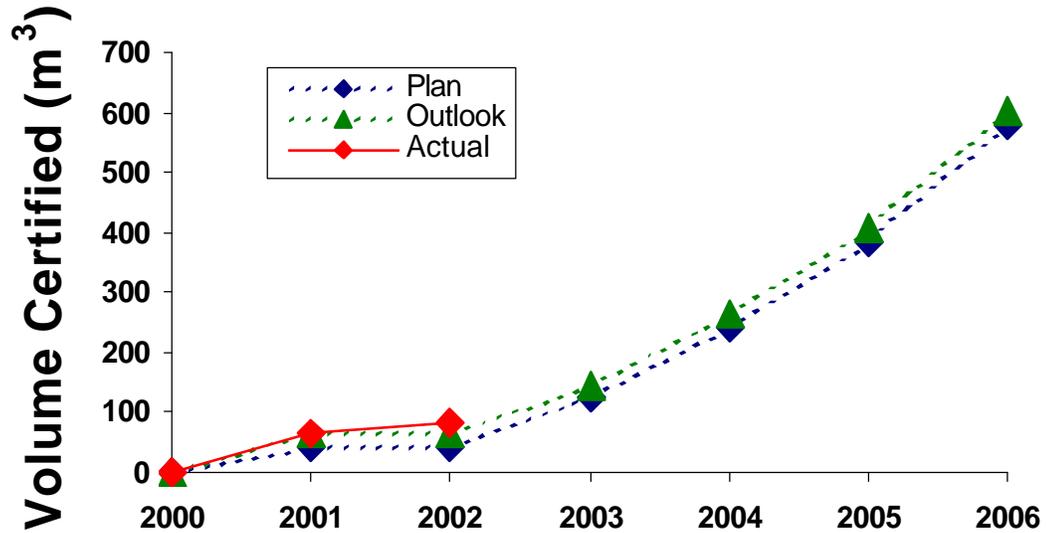
MILESTONE ACHIEVEMENT FH Contract Milestones

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status / Comment
M-19-00	Complete Treat/Disp 1,644 CM of CH-LLMW	TPA Enforceable	09-30-02	10-23-00	10-23-00	COMPLETE
M-7-1E	Complete T Plant preparation for storage of K Basins sludge	PI Base	10-30-02		NOV-02	Schedule recovery underway.
M-7-2A	Complete ORR for K Basins Sludge Receipt	PI Base	10-30-02		TBD	Working safety analysis issues with SNF.
M-91-12A	Treat 240 Cubic Meters by 12/31/2002	TPA Enforceable	12-31-02		TBD	TPA renegotiation scheduled to be completed in September 2002.
M-91-20	T Plant ready to rec. canister of K Basin floor pit sludge	TPA Enforceable	12-31-02		TBD	Working safety analysis issues with SNF.
M-26-05J	Prep Biennial Tritium Treatment Tech Evaluation Report	TPA Enforceable	08-31-03		08-31-03	ON SCHEDULE
M-7-2B	Complete Readiness Assessment K Basins Canister & Fuel Sludge Receipts	PI Base	01-01-04		01-01-04	ON SCHEDULE
M-7-3B	De-Post T Plant Canyon as Airborne Radiation Area	PI Stretch	01-01-04		01-01-04	ON SCHEDULE
M-91-22	T Plant ready to rec. Canister & fuel wash sludge from K Basin	TPA Enforceable	02-29-04		02-29-04	ON SCHEDULE
M-91-07	Complete W-113 for Post 1970 CH TRU / TRUM Retrieval	TPA Enforceable	09-30-04		TBD	TPA renegotiation scheduled to be completed in September '02.

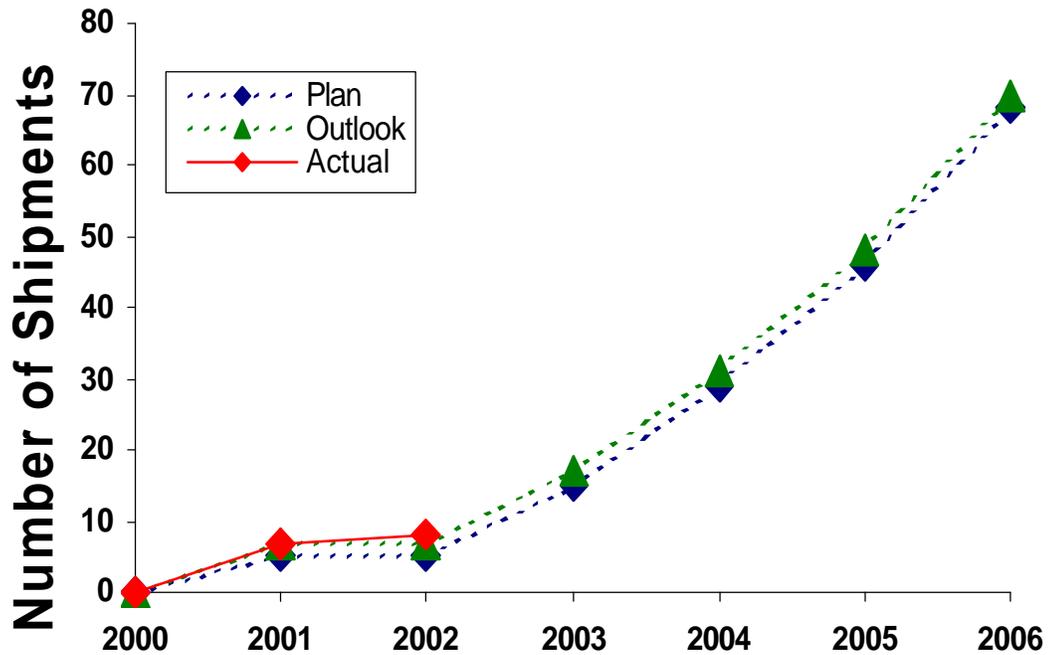
M-1-2	Consolidate Sitewide SNF in 200 A Dry Storage	PI Base	02-28-05		02-28-05	ON SCHEDULE
M-26-05L	Prep Biennial Tritium Treatment Tech Evaluation Report	TPA Enforceable	08-31-05		08-31-05	ON SCHEDULE
M-5-2	Complete Thermal Treatment 600 m ³ MLLW by 12/31/05	PI Base	12-31-05		12-31-05	ON SCHEDULE
M-5-1B	Complete Treatment / Disposal 9820 m ³ of MLLW	PI Stretch	06-30-06		06-30-06	ON SCHEDULE
M-7-3C	Clear Remaining Stored Equipment from T Plant Canyon Deck	PI Stretch	06-30-06		06-30-06	ON SCHEDULE
M-4-1D	Retrieve 15,200 Suspect TRU Waste	PI Stretch	09-30-06		09-30-06	ON SCHEDULE
M-6-1A	Certify 580 m ³ of TRU waste	PI Stretch	09-30-06		09-30-06	ON SCHEDULE
M-6-1B	Complete 68 TRU Waste Shipments to WIPP	PI Stretch	09-30-06		09-30-06	ON SCHEDULE

PERFORMANCE OBJECTIVES

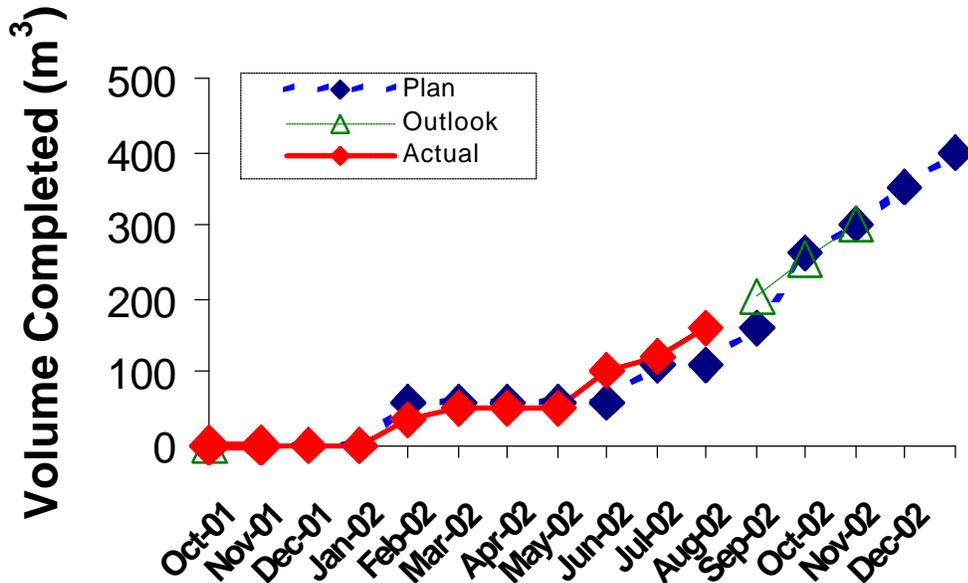
CERTIFY TRU WASTE (FHI-M6)



SHIP TRU WASTE (FHI-M6)

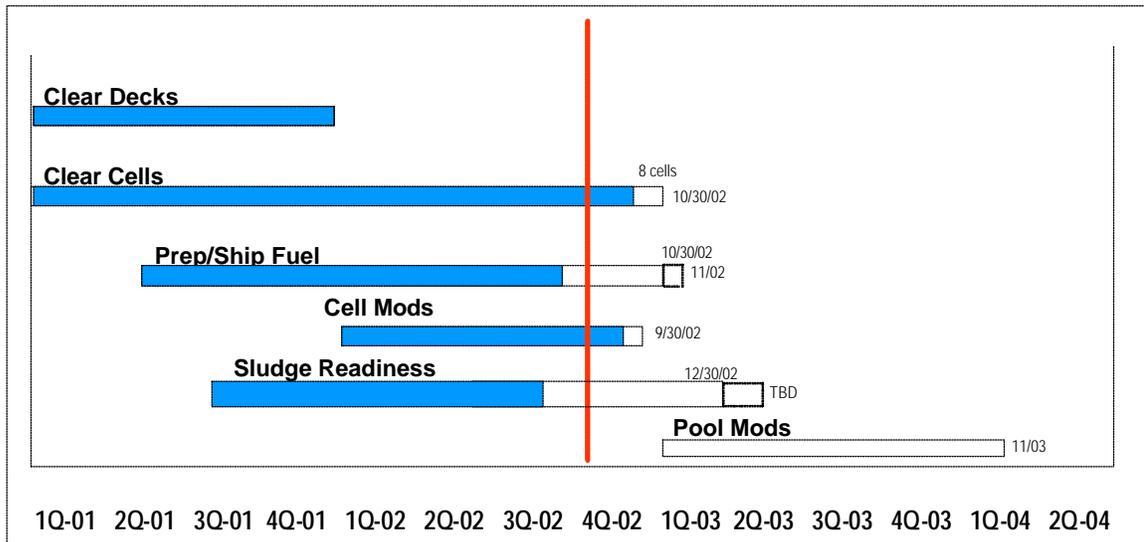


TREAT AND DISPOSE MLLW (FHI-M5)



Note: August production: 120 m³. FYTD production: 242 m³.

ACCELERATE READINESS TO RECEIVE K-BASIN SLUDGE (FHI-M7)



FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

		FYTD								
		BCWS	BCWP	ACWP	SV	%	CV	%	BAC	
PBS CP02	SW Storage & Disposal	\$ 10,344	10370	\$ 10,636	\$ 27	0%	\$ (265)	-3%	\$ 11,529	
WBS 3.3.2.1										
PBS CP02	MLLW Treatment	\$ 1,252	\$ 582	\$ 579	\$ (670)	-54%	\$ 2	0%	\$ 1,458	
WBS 3.3.2.2										
PBS CP02	SW Treatment	\$ 9,960	\$ 8,878	\$ 13,639	\$ (1,082)	-11%	\$ (4,761)	-54%	\$ 11,463	
WBS 3.3.2.3										
PBS CP02	TRU Program	\$ 11,919	\$ 11,928	\$ 10,579	\$ 9	0%	\$ 1,349	11%	\$ 13,337	
WBS 3.3.2.4										
PBS CP02	WESF	\$ 6,847	\$ 6,810	\$ 6,202	\$ (37)	-1%	\$ 607	9%	\$ 7,633	
WBS 3.3.2.5										
PBS CP02	200 A LWPF	\$ 14,176	\$ 14,086	\$ 12,746	\$ (90)	-1%	\$ 1,340	10%	\$ 15,836	
WBS 3.3.2.6										
PBS CP02	Project Management	\$ 17,427	\$ 17,302	\$ 16,179	\$ (126)	-1%	\$ 1,123	6%	\$ 19,158	
WBS 3.3.2.9										
Total		\$ 71,924	\$ 69,956	\$ 70,560	\$ (1,969)	-3%	\$ (604)	-1%	\$ 80,415	

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$2.0 million unfavorable schedule variance is primarily due to the T Plant Shippingport Fuel removal being delayed to resolve Operational Readiness Review corrective actions. These delays have also delayed the start of sludge receipt readiness activities. MLLW treatment has been limited while ATG is under Chapter 11. The \$0.6 million unfavorable cost variance was primarily due to increased costs for the T Plant spent fuel removal ORR preparation and assessment corrective actions. This is offset by the favorable variance from the FY 2001 carryover workscope costing less than planned, contracts not being placed and credit taken for the TRU Program for work completed in FY 2001.

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: (-\$2.0M)

MLLW Treatment — 3.3.2.2/CP02

Description/Cause: The unfavorable schedule variance is a result of treatment production being limited at ATG while under Chapter 11.

Impact: The TPA milestone M-91-12A is unachievable.

Corrective Action: Some non-thermal activities have been identified and are proceeding. Formal notification to RL that TPA milestone M-91-12A is unachievable was submitted February 11, 2002.

SW Treatment — 3.3.2.3/CP02

Description/Cause: The unfavorable schedule variance is a result of the T Plant removal ORR not completed and fuel shipments not started.

Impact: Completion of fuel removal from T Plant will be delayed.

Corrective Action: Complete preparations and initiate fuel removal from T Plant in September.

Cost Variance Analysis: (-\$0.6 M)

SW Treatment — 3.3.2.3/CP02

Description/Cause: The unfavorable cost variance is due to the increased costs for the T Plant Readiness Assessment preparation and assessment corrective actions, offset by FY 2001 carryover workscope costing less than plan.

Impact: T Plant will be over-run at year end.

Corrective Action: Actions have been implemented to resolve cost impacts to the WM Project.

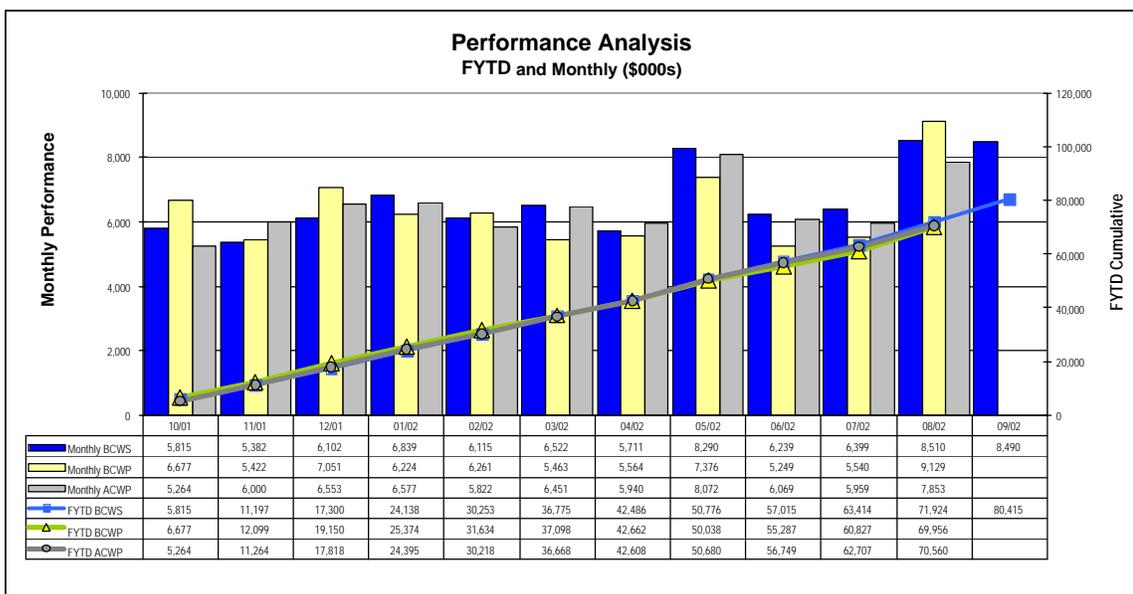
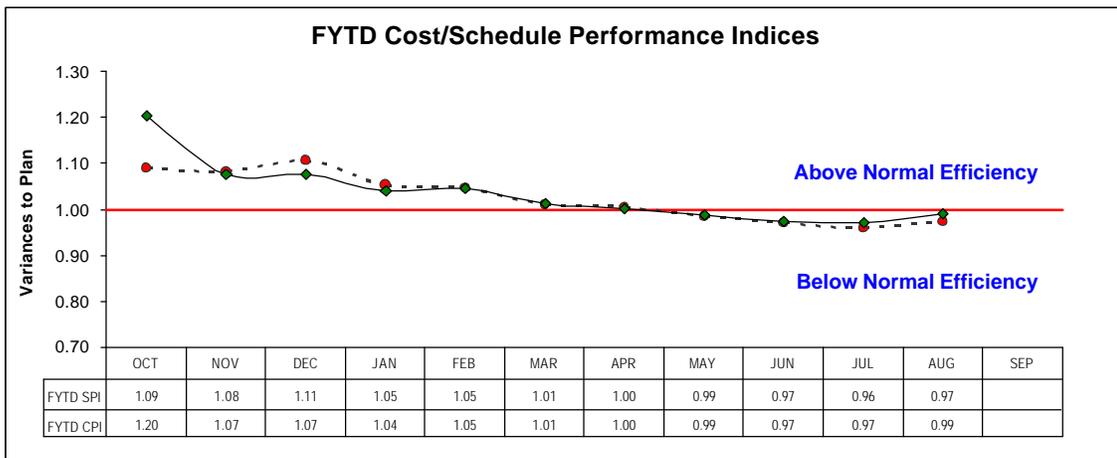
TRU Program — 3.3.2.4/CP02

Description/Cause: The favorable cost variance is due to a credit (BCWP) for completed work for cost generated in FY 2001 for an additional three WIPP shipments.

Impact: None.

Corrective Action: None.

COST / SCHEDULE PERFORMANCE (MONTHLY AND FYTD)



FUNDS MANAGEMENT

FYTD FUNDS VS. SPENDING FORECAST (\$000)

	FH Funds Reallocation	FYSF	Variance
3.3.2 Waste Management			
CP02	\$ 81,319	\$ 79,152	\$ 2,167
RC05 (310 TEDF)	\$ 2,962	\$ 2,886	\$ 76
RC02 (340)	\$ 995	\$ 873	\$ 122
Total	\$ 85,276	\$ 82,911	\$ 2,365

NOTES: (1) FH Reallocation reflects an FYSF adjusted for scope deletions, deferrals, and identified savings to address funding shortfalls, additional unplanned scope, and cost increases.

ISSUES

Technical Issues

Issue: Recovery of T Plant Readiness to move Shippingport Fuel.

Impact/Status: The Request for RL Authorization for T Plant to Commence Nuclear Hazard Category 2 Operations was transmitted to RL and subsequently approved. T Plant has completed the first shipment.

Corrective Action: Complete two additional shipments in September 2002. Continue negotiations with RL to extend the completion date to November 2002.

Issue: Type 1 Sludge Storage Readiness Activity in Jeopardy of Completing on Schedule.

Impact/Status: The Quarterly Startup Report, scheduling a Standard Startup Review for Type I sludge storage preparations has been approved by RL. New data that required further analysis in the Sludge Storage Safety Assessment (SA) was received from the SNF Project. Remaining open significant issues include hydrogen generation and safeguards concerns. Current projected delivery date of the SA to RL (October 25) jeopardizes WM Performance Incentive completion dates.

Corrective Actions: Complete Contractor Readiness Assessment by October 30, 2002. Reconcile SNF, Transportation and Packaging, and T Plant Safety Documents. Establish controls based on T Plant Safety Analysis. Submit Plan of Action for Sludge Receipt Readiness. Continue WM/SNF coordination.

External Issue/DOE Requests/Regulatory/DOE Issues

Nothing to report at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

BCR No./ Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
FH-02-011	2/28/2002	10CFR830 Phase II compliance		1,700		Submitted to RL
CP-02-013	6/27/2002	WIPP/WAC Requirements		242		Approved. Will be implemented in September
CP-02-014	7/12/2002	WMP Minimum Efficient Operating Level		2000/535		Submitted to RL