



Section B:1

Waste Management

PROJECT MANAGERS

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SUMMARY

Waste Management (WM) consists of the Solid Waste Storage and Disposal, Project Baseline Summary (PBS) WM03, Work Breakdown Structure (WBS) 1.2.1; Solid Waste Treatment, PBS WM04, WBS 1.2.2; Liquid Effluents - 200 Area, PBS WM05, WBS 1.2.3.1; and the Waste Encapsulation and Storage Facility, PBS TP02, WBS 1.4.2.

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 included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope remains in Waste Management. For the purpose of performance analysis, PBS WM05 is reported in its entirety in the Waste Management Project (WMP), which has the majority of the work scope and funding.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, RL) shows one of one milestones (100 percent) completed early. Tri-Party Agreement milestone, M-91-12, "Initiate Thermal Treatment of Contact-Handled — Low Level Mixed Waste (CH-LLMW)," was renegotiated with two milestones established in 2002 and 2005.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of May 31, 2001. Other data is updated as noted.

NOTABLE ACCOMPLISHMENTS

Accelerate Readiness to Receive Spent Nuclear Fuel (SNF) K Basin Sludge - All ten deck sections have been cleared at T Plant.

Mixed Low Level Waste (MLLW) Treatment/Disposal – Through May 2001, 570 cubic meters (m³) of MLLW were shipped to ATG, versus the planned 620 m³ for FY 2001. Currently, shipments are on hold due to limitations with ATG storage capacity.

TRU Waste Program Production - Fiscal Year to Date (FYTD) production through June 15, 2001: 689 Nondestructive Examination (NDE), 717 Nondestructive Assay (NDA), 258 Headspace Gas Analysis, 60 Glove box Repackaging, 9 Visual Examinations (VE), four shipments made to the Waste Isolation Pilot Plant (WIPP), and 50.4 m³ certified.

Transuranic (TRU) Program Re-certification/Plutonium Finishing Plant (PFP) Audit: The TRU Program re-certification and PFP audit was completed June 15, 2001. Re-certification of the Hanford TRU Program and PFP waste packaging/visual examination were approved; PFP NDA will require closure of two Corrective Action Reports (CARs) prior to obtaining certification.

Liquid Waste Processing - From October 1, 2000 through June 10, 2001, 18.9 million gallons of wastewater were processed through the 200 Area Effluent Treatment Facility supporting the Environmental Restoration Contractor 200-UP-1 Groundwater.

Support to Nuclear Material Stabilization (NMS) Project - The second shipment of Hanford ash was received on June 12, 2001. Ash processing has been temporarily halted until July when Plutonium/Aluminum (Pu/Al) alloy processing is complete. The Safety Analysis Report for Packaging (SARP) revision for alloys was approved on June 15, 2001 to support the scheduled shipment in mid-July.

Support to River Corridor Project (RCP) - Transport and storage of RH-TRU Hittman liners from the 324 B-Cell clean out is in progress. Sixteen of 22 liners for FY 2001 are in storage.

Waste Encapsulation and Storage Facility (WESF) Operations - The facility completed the installation of new feeders and ground fault protection at the WESF substation. Completion of this significant work activity brings the facility one step closer to accomplishing the required electrical safety upgrades. The findings and corrective measures associated with the August 8, 1999 inspection of WESF by Washington State Department of Ecology (Ecology) have been closed. Ecology issued the closure letter on June 1, 2001, after performing a follow-up inspection on May 24, 2001.

Land Disposal Restriction (LDR) Report - The CY 2000 LDR report, with RL and contractor comments incorporated, was transmitted, on schedule, to RL on June 15, 2001. RL is now coordinating approval of the report, with transmittal to the regulators required by June 30, 2001. This will meet the requirements of Tri-Party Agreement milestone M-26-01K.

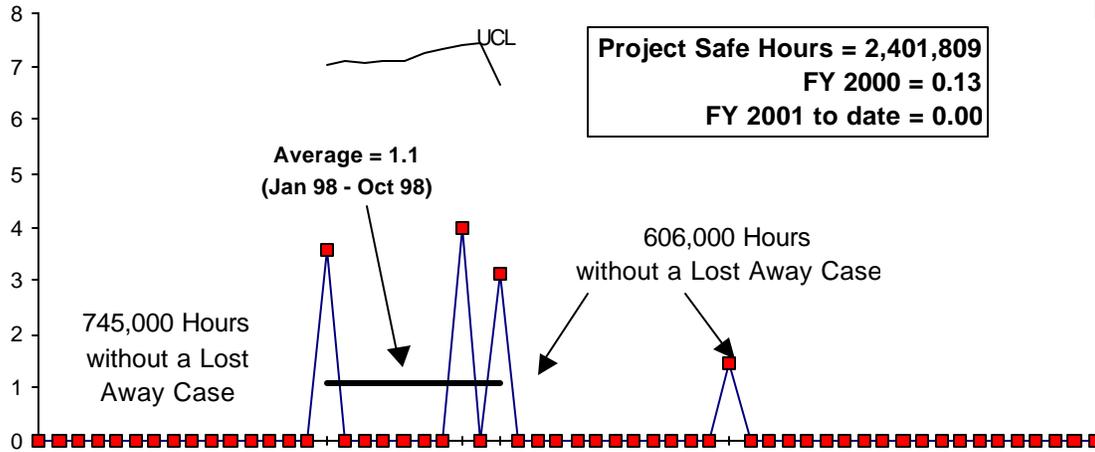
SAFETY

During May, there were no Lost Away or OSHA recordable cases. The Waste Management Project (WMP) has achieved 2.4 million hours without a lost away workday.

Lost Away Workday Case Rate

Cases per 200,000 hours

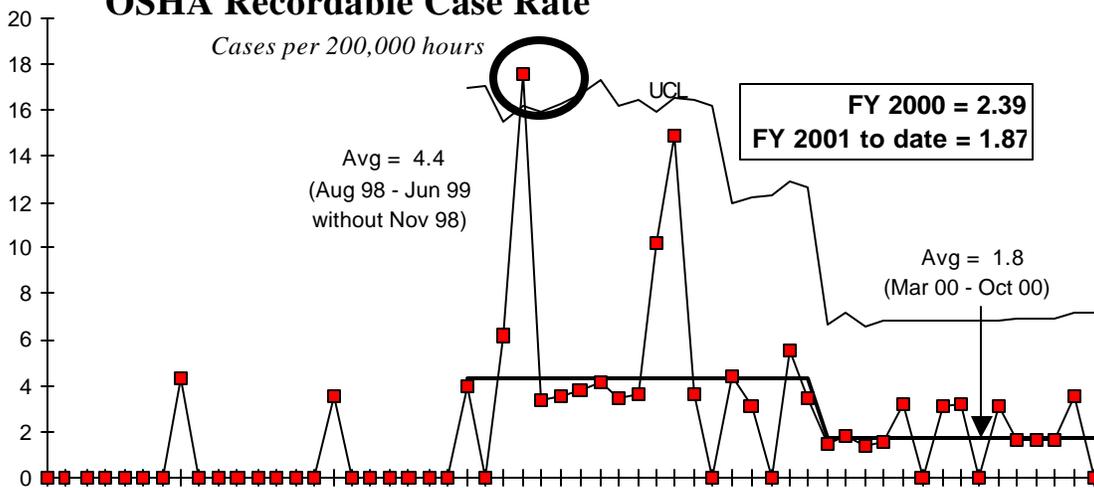
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OSHA Recordable Case Rate

Cases per 200,000 hours

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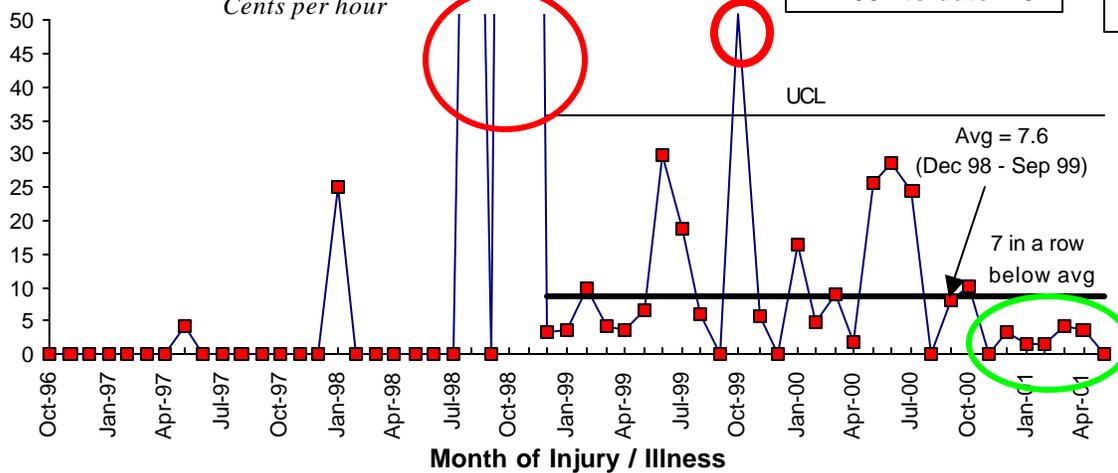


DOE Safety Cost Index

Cents per hour

FY 2000 = 15.1
FY 2001 to date = 3.1

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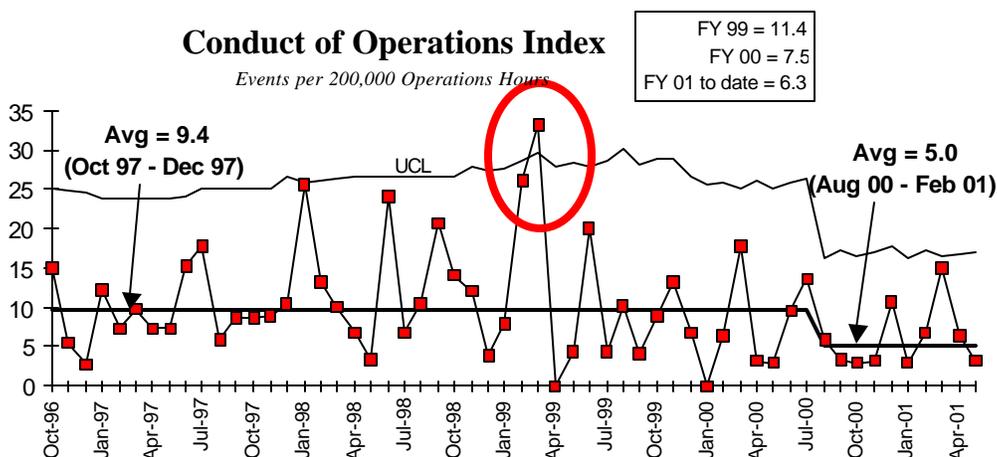
ISMS STATUS

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- Continue work on the WMP VPP application with a draft available for review and comment by all Project employees. Continue WMP employee educational effort with the release of our third issue of the WMP VPP TidBits information bulletin.
- WMP employed the ISMS process in handling the discovery of an unidentified solution in one of the T-Plant canyon cells, in the planning and execution of ongoing work to retrieve TRU drums for the LLBG, and the planning and execution of work to repair the thin film dryer rotor assembly on site at 200 Liquid Waste Processing Facility. All involved detailed work planning, RadCon review, and employee participation in work planning, hazard identification and hazard control/mitigation.

CONDUCT OF OPERATIONS

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BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Nothing to report at this time.

Opportunities for Improvement

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Hanford/Nevada Test Site Waste Generator Summit Meeting - A Summit meeting is being planned to develop strategies for DOE Complex mixed low-level and low-level waste disposal. The Summit is being planned for June 26-28, 2001 in Lakewood, CO. Specific topics for discussion at the conference which will potentially present opportunities for improvement of both Complex-wide and Hanford programs include:

- Implementation of the Waste Management Programmatic Environmental Impact Statement (PEIS) record of decision
- DOE Disposal Program Standardization (waste acceptance criteria comparison, audits versus verification)

- Disposal Costs
- Waste Forecasts
- Disposal Site Performance Measures
- Development of a DOE Complex Integrated Schedule (national disposal strategy)

UPCOMING ACTIVITIES

MLLW Treatment - ATG continues preparations for a thermal treatment trial burn in September. Limited additional non-thermal and thermal treatment continue.

Accelerate Readiness to Receive Spent Nuclear Fuel K Basin Sludge - By September 30, 2001: 1) Clear 4 T Plant canyon cells; 2) Complete the removal of 4 pieces of major equipment, and 3) Complete contractor Operational Readiness Review.

TRU Waste Retrieval - Retrieval of exposed drums will resume upon revision of the Low-Level Burial Grounds (LLBG) Justification for Continued Operations (JCO). Planning for buried drum retrieval continues. Completion of exposed drum retrieval and declaration of readiness for buried drum retrieval both are forecast to be completed in the first quarter of FY 2002.

TRU Waste Shipment - The next shipments to WIPP are scheduled for June 29, 2001, with additional shipments planned for July and August 2001. The Carlsbad Field Office may not be able to provide TRUPACT shipping containers due to priorities at Idaho National Engineering and Environmental Laboratory (INEEL) and Rocky Flats.

TRU Recertification Audit - The Hanford TRU recertification audit was completed on June 15, 2001, and included the use of the PFP's NDA and VE techniques. A formal response will be prepared when the audit report is issued to address one Corrective Action Report (CAR). PFP NDA will require closure of two CARs prior to obtaining certification.

Tri-Party Agreement Milestone M-91-03, "Submit Hanford Site TRU/TRU Mixed (TRUM) Waste Project Management Plan (PMP) to Ecology" – Ecology transmitted a letter stating that it does not approve the PMP, and is proposing a schedule for continuing dispute resolution. WMP will continue to support RL to resolve the dispute.

Liquid Waste Processing – Continue groundwater processing at the 200 Area Effluent Treatment Facility.

NMS Project Support - Continue to receive waste in support of PFP Pu/Al alloy and Hanford ash processing through November 2001. Also, continue support resolution of NDA recalibration efforts at PFP.

Support to RCP - Support continues to the 324 facility in the shipment and placement of B-Cell Hittman liners in the Low Level Burial Ground to meet the July 31, 2001 commitment date. Planning is also in progress to commence D-Cell liner transport and disposal action this fiscal year.

LDR Report - The Calendar Year (CY) 2000 LDR report was transmitted to RL on June 15, 2001. WMP will support RL with issuance to the regulators by June 30, 2001, and support evaluation of regulator comments.

MILESTONE ACHIEVEMENT

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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	1	0	0	0	0	2	0	3
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	0	0	0
Total Project	1	0	0	0	0	2	0	3*

* TPA milestone, M-91-12, "Initiate Thermal Treatment of Contact-Handled — Low Level Mixed Waste (CH-LLMW)," was renegotiated. Two new milestones have been established for December 2002 and December 2005. The previous M-91-12 milestone has been removed from the above chart.

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-91-13 (A1C-01-001)	Initiate Disposal of CH-LLWM	Due 06/30/01 – Completed 9/15/1999
M-91-18 (WMP-01-001)	Transmit T-Plant Sludge Storage Conceptual Design to Ecology	Due 06/29/01 – Complete 6/11/01 with RL transmittal to Ecology. (Statused On Schedule in the chart above as of 5/31/01).
M-26-01K	Annual Hanford LDR Report	Due 06/30/01 – On Schedule.
M-26-05H (WMH-00-006)	Prep Biennial Tritium Treatment Technology Evaluation report	Due 08/31/01 – On Schedule
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

Forecast Late – 0

FY 1999 Overdue – 1

TRP-98-709	RL	Complete Hot Cell Deactivation	03/31/99	09/30/01
1.4.2		WESF Facility (A-E)		

Cause: This milestone is not complete due to not being supported at the current funding level.

Impact: No overall impact is expected.

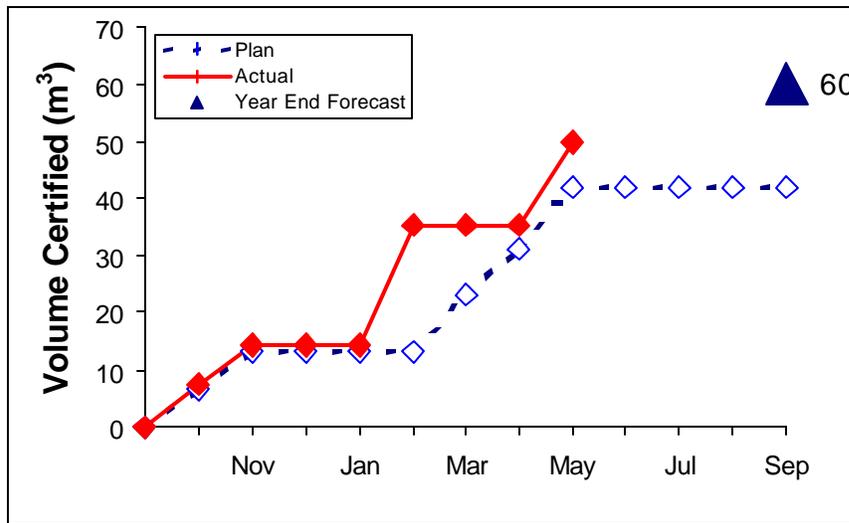
Corrective Action: Funding for this work scope [Return-on-Investment (ROI)] has been identified and a new forecasted completion date of September 30, 2001 established.

FY 2002 Tri-Party Agreement / EA Milestones		
Number	Milestone Title	Status
	Nothing to report at this time.	
DNFSB Commitments		
	Nothing to report at this time.	

PERFORMANCE OBJECTIVES

CERTIFY TRU WASTE (FHI-M6)

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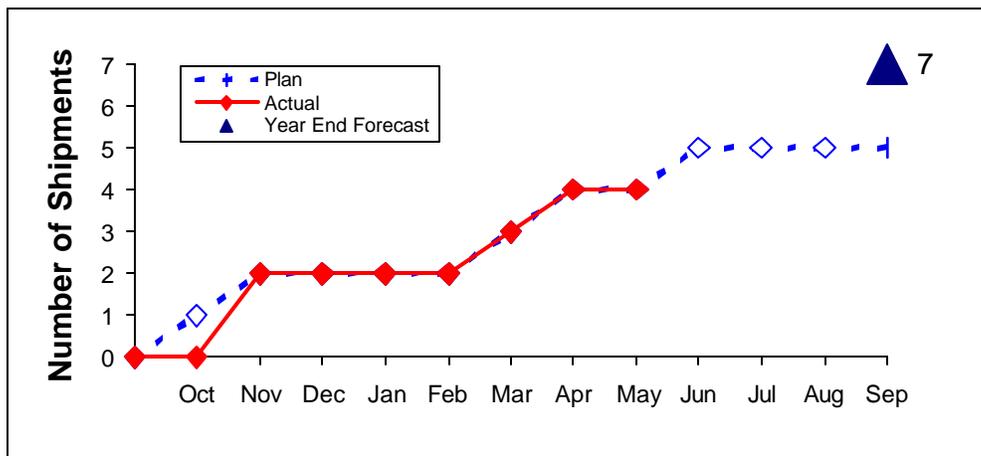


FISCAL 2001

Ahead of schedule with 50.4 m³ certified. Current forecast is to complete 60 m³ by September 2001.

SHIP TRU WASTE (FHI-M6)

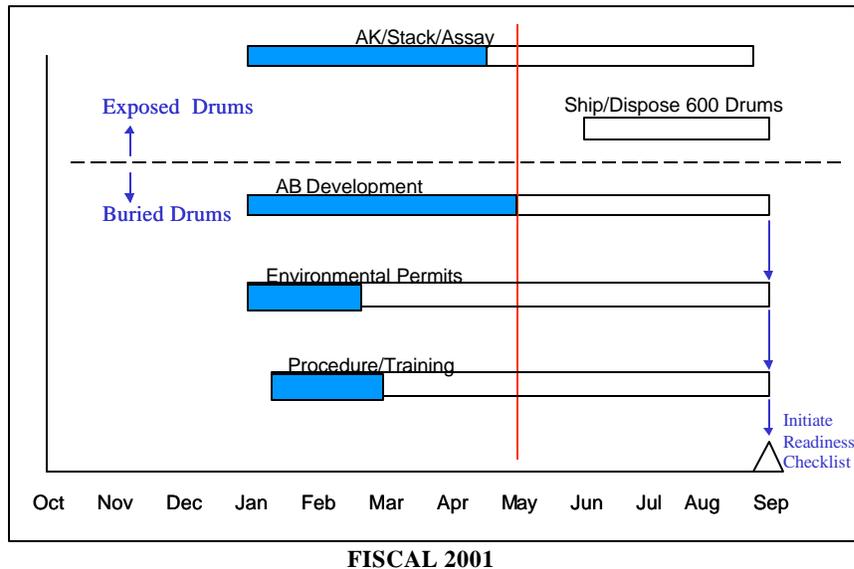
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FISCAL 2001

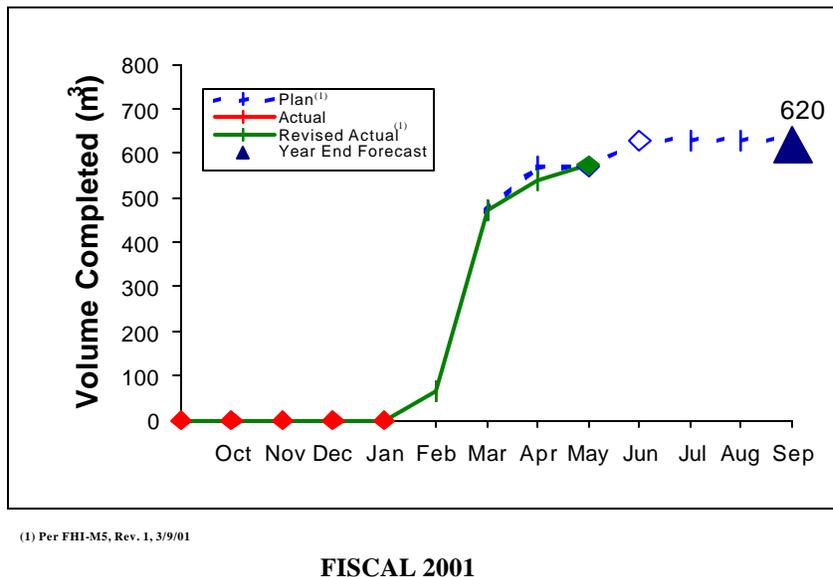
On schedule. Current forecast is to complete seven shipments by September 2001, with the next shipment for the end of June 2001.

RETRIEVE TRU WASTE (FHI-M4)



Retrieval of exposed drums will resume upon revision of the LLBG justification for continued operations. Planning for buried drum retrieval continues. Completion of exposed drum retrieval and declaration of readiness for buried drum retrieval both are forecast to be completed in the first quarter of FY 2002.

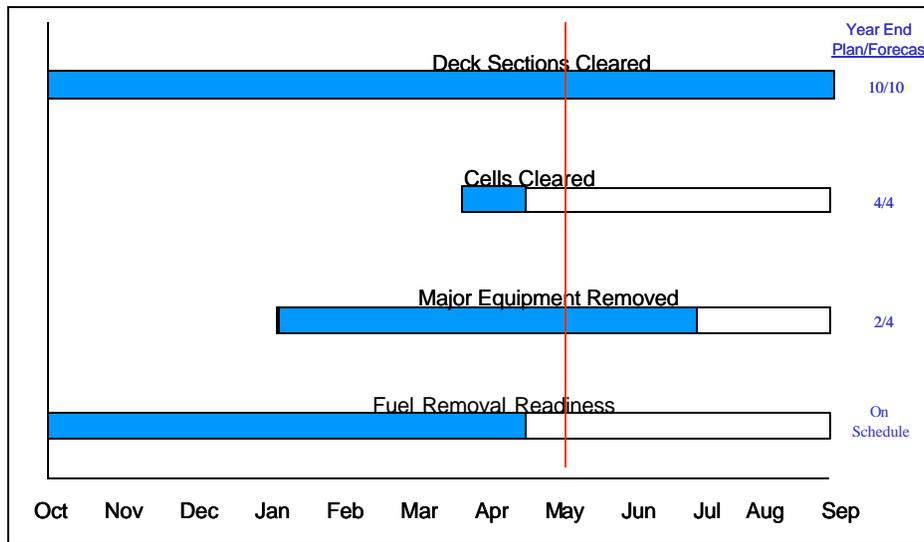
TREAT AND DISPOSE MLLW (FHI-M5)



On schedule. Through May 2001, 570 m³ of MLLW were shipped to ATG. Currently, shipments are on hold due to limitations with ATG storage capacity.

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

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FISCAL 2001

On schedule. Through May 2001, ten deck sections were cleared. Limited canyon activities have resumed as authorized by the Plant Manager, with access to Cell 11-L restricted.

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

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		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS WM03 WBS 1.2.1	Solid Waste Storage & Disposal	\$ 18,333	\$ 18,245	\$ 14,981	\$ (88)	0%	\$ 3,264	18%	\$ 29,331	\$ 25,295	
PBS WM04 WBS 1.2.2	Solid Waste Treatment	\$ 25,166	\$ 25,273	\$ 29,852	\$ 107	0%	\$ (4,579)	-18%	\$ 38,926	\$ 42,551	
PBS WM05 WBS 1.2.3	Liquid Effluents - 200/300 Area	\$ 17,898	\$ 17,809	\$ 15,910	\$ (89)	0%	\$ 1,899	11%	\$ 26,540	\$ 24,598	
PBS TP02 WBS 1.4.2	WESF	\$ 7,298	\$ 7,230	\$ 6,680	\$ (67)	-1%	\$ 550	8%	\$ 10,954	\$ 10,089	
Total		\$ 68,695	\$ 68,558	\$ 67,424	\$ (137)	0%	\$ 1,134	2%	\$ 105,750	\$ 102,533	

Note: Above data includes 300 Area Liquid Effluents as part of PBS WM-05; this work is also stautsed as part of the River Corridor Project.

FY TO DATE SCHEDULE / COST PERFORMANCE

There is no significant schedule variance. The favorable cost variance is primarily due to vacancies and staff on leave in the Liquid Effluents 200/300 Areas.

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: (-\$0.1M)

Solid Waste Storage & Disposal — 1.2.1/ WM03

Description /Cause: The unfavorable schedule variance of \$0.09M (0 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Solid Waste Treatment — 1.2.2/ WM04

Description /Cause: The favorable schedule variance of \$0.1M (0.4 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Liquid Effluents — 1.2.3.1/ WM05

Description /Cause: The unfavorable schedule variance of \$0.09M (0.5 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

WESF — 1.4.2/ TP-02

Description /Cause: The unfavorable schedule variance of \$0.07M (0.1 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Cost Variance Analysis: (+\$1.1M)

Solid Waste Storage and Disposal — 1.2.1/WM03

Description and Cause: The favorable \$3.3M cost variance within WM03 is due to the FY 2000 fee reversal, labor underruns due to involuntary reductions of force and restricted hiring, and savings generated from the WMP Program Management Account transfer from indirect to direct.

Impact: None.

Corrective Action: The fee reversal will be used to help fund the ATG settlement. A favorable yearend variance is forecasted.

Solid Waste Treatment — 1.2.2/WM04

Description and Cause: The unfavorable \$4.6M cost variance within WM04 is due to a contract dispute that requires payment upon shipment of waste, rather than the previous agreement of payment on return of waste. The prepayment caused a large variance. Also contributing to the variance is the settlement payment of claims by ATG.

Impact: None.

Corrective Action: A baseline change request will be submitted in June to increase the baseline for the ATG settlement. The pre-payment variance will be worked off as waste is returned.

Liquid Effluents — 1.2.3/WM05

Description and Cause: The favorable \$1.7M cost variance within WM05 is primarily due to labor underruns, reduced sample analysis and a reduced need for crane and rigging.

Impact: None.

Corrective Action: Liquid Effluents is forecasting a favorable cost variance.

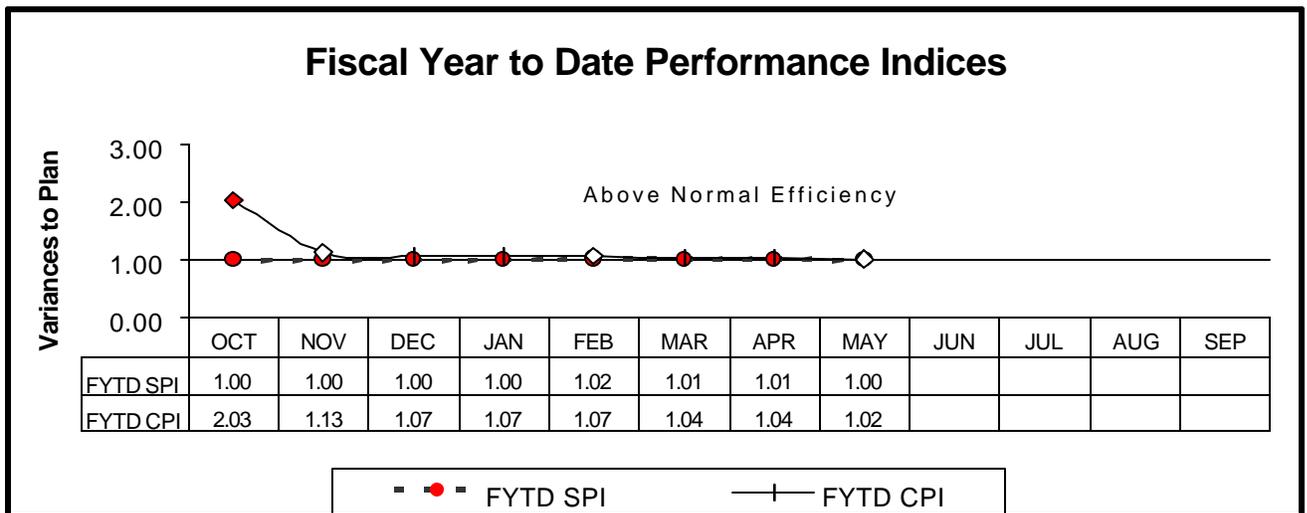
WESF — 1.4.2/TP02

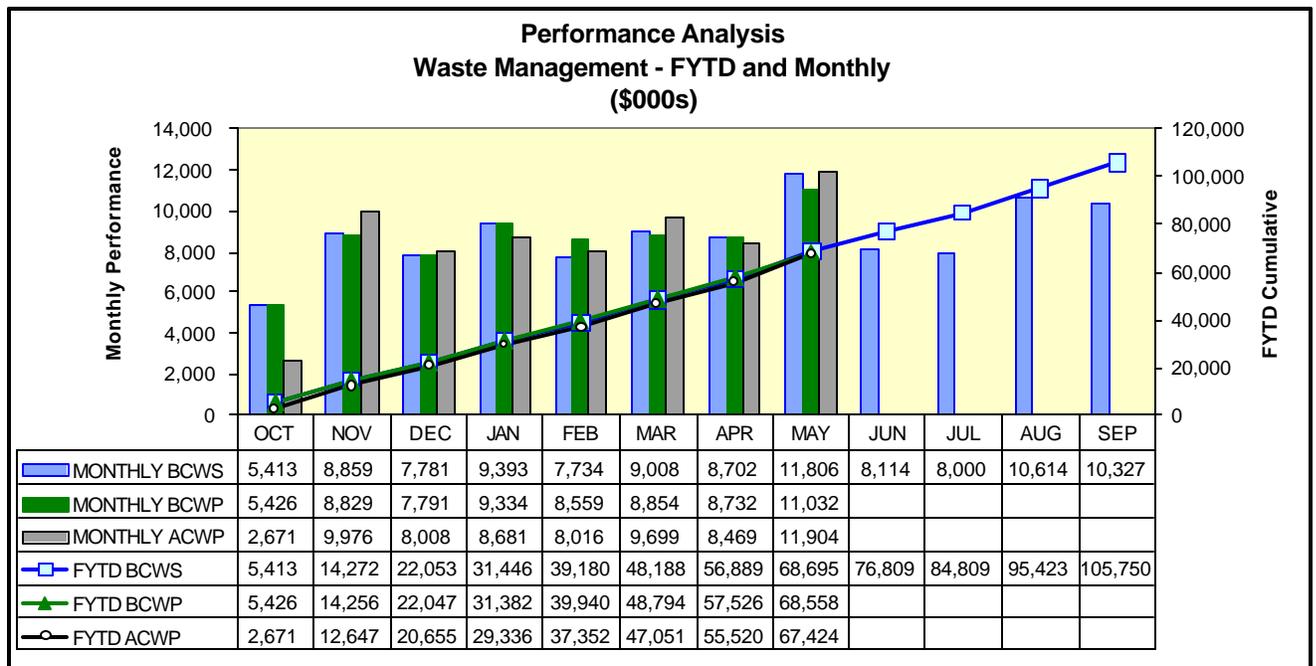
Description and Cause: The favorable \$0.6M cost variance within TP02 is due to the FY 2000 fee reversal.

Impact: None.

Corrective Action: A change request will be submitted to reduce the fee budget.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM).
Note: Above data includes RL contract for Steam.

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

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	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Plateau									
1.2 Waste Management									
TP02,WM03-05				\$ 98,580	\$ 95,976	\$ 2,604			
Line Item									
Total Waste Mgt. Operating				\$ 98,580	\$ 95,976	\$ 2,604			
Total Waste Mgt. Line Item									

* Control Point

NOTE: Above funding addresses Waste Management work scope only.

ISSUES

Technical Issues

T Plant Canyon Cleanout — T Plant Canyon cleanout has been delayed by the discovery, during planned cell visual inspections, of an unanticipated tank containing liquid and salt cake in Cell 11-L.

Impact: Canyon activity was suspended and an Unresolved Safety Question (USQ) was declared as a result of the tank discovery. Due to the unknown nature of the tank contents, there is the potential for a nonconformance to the limits of the Criticality Prevention Specification,

CPS-D-149-00001 Rev. B-0 and for failure to meet the assumptions of the supporting Criticality Safety Analysis Report, CSAR 86-007.

Corrective Action: Archived records have been reviewed and former T Plant personnel have been interviewed. The total volume of tank contents is now estimated to be 530 gallons consisting of liquid, salt cake, and a sludge layer. A USQ Evaluation was conducted and the Plant Review Committee determined there was a USQ, resulting in the Occurrence Report being elevated to an Unusual Occurrence. Additional sampling is in process to characterize the sludge layer and resolve the criticality and fissile inventory issues. Limited canyon activities have resumed, as authorized by the Plant Manager, with access to Cell 11-L restricted.

Exposed TRU Drum Retrieval – The frequency of occurrence of unvented drums containing in excess of 15 grams plutonium is higher than assumed in the LLBG Justification for Continued Operation (JCO). Retrieval operations were suspended when two unvented drums above the RL-imposed limit for Trench 29 were discovered during retrieval operations in Trench 1 on May 31, 2001.

Impact: Limited drum movement has resumed in trench 29, while trench 20 remains in stand-by, and trenches 1 and 24 remain in restricted status.

Corrective Action: A new JCO is being prepared to support completion of exposed drum retrieval in trenches 1, 20, 24, and 29. RL support is needed for timely resolution of the proposed JCO.

DOE Issues

Accelerate Readiness to receive Spent Nuclear Fuel (SNF) Sludge at T Plant — FH's critical path schedule for readiness to remove Shippingport fuel from T Plant has been delayed due to a delay in issuance of the Safety Evaluation Report (SER) governing these activities (completed June 18, 2001).

Impact: Initiation of critical portions of the FH Management Self-Assessment (MSA) was delayed from May 22 until June 18, 2001. Subsequent readiness activities (MSA, Contractor ORR and RL ORR) must all be compressed to support timely fuel removal.

Corrective Action: MSA preparations that do not exceed the current Interim Safety Basis (ISB) have already started, and additional contractor personnel are/will be participating in the MSA and contractor ORR to support FH's declaration of readiness by September 18, 2001. RL support will be needed to complete the RL ORR by November 5, 2001, and to resolve ORR pre-start conditions in a compressed time frame.

Regulatory Issues

Revision 7 of the Hanford Resource Conservation and Recovery Act (RCRA) Permit (a.k.a. Modification E) Application — On March 30, 2001, RL, FH, Pacific Northwest National Laboratory, Bechtel Hanford, Inc., and CH2M HILL Hanford Group appealed the permit to the Washington Pollution Control Hearing Board. This stayed the effective date of the permit until the matter is resolved before the Board.

Impact: There is the potential for substantial unplanned compliance costs and issues at the Waste Receiving and Packaging (WRAP) facility and at the Central Waste Complex (CWC) if the Permit stands as issued. Costs will be incurred to support any litigation activities.

Corrective Action: A pre-hearing with the Pollution Control Hearing Board was held on May 22, 2001. The appeal is scheduled to be heard in January 2002. Operations continue under the current Permit. This issue will be updated when the appeal is heard.

Environmental Assessment (EA) for new LLBG Trenches - An EA to support construction of four new trenches in the LLBG was issued for public comment. The new trenches are proposed for construction within the existing footprint of the LLBG, and are needed to support forecasted waste receipts and the segregation of Category I and Category III low-level waste. Responses to Ecology and

Heart of America are currently being addressed. RL is evaluating the EA to see if it qualifies as an interim action to the Hanford Site Solid Waste Environmental Impact Statement (HSW-EIS). Both Ecology and Heart of America may be considering litigation if a "Finding of No Significant Impact" is issued for the EA. The extended public comment period ended on June 14, 2001. RL received comments from the Hanford Advisory Board (HAB) stating that "In no case should DOE build the trenches prior to release of the HSW-EIS."

Impact: Delays may affect the ability to use Parks Township funding for new trench construction. Delays may also have significant impact on the adequacy of trench space to support forecasted waste volumes.

Corrective Action: This issue will continue to be worked with RL. This issue will be updated when a path forward is developed.

External Issues and DOE Requests

None identified at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	FY01 COST IMPACT \$000	S	C	H	T	E	C	H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
WM-2001-020	3/28/2001	Unassigned Waste Sites	\$71								4/11/2001	6/11/2001	NA	Approved
WM-2001-027	6/12/2001	ATG Settlement	\$3,608								6/21/2001	TBD		
WM-2001-028	6/13/2001	T Plant Fans/Pre-Filters	\$0								6/21/2001	TBD	NA	
WM-2001-029	5/2/2001	WMP Fee Reallocation	\$21								6/11/2001	6/11/2001	NA	Approved
FSP-2001-060	5/4/2001	WESF Fee Reallocation	(\$591)								6/11/2001	6/11/2001	NA	Approved
ADVANCE WORK AUTHORIZATIONS														

KEY INTEGRATION ACTIVITIES

- **SNF Project Support** — Preparing T Plant to receive SNF K-Basin sludge.
- **Liquid Effluents** — Continue support of UP-1 Groundwater treatment at the 200 Area Effluent Treatment Facility.
- **RCP Support** —WMP continues to provide support to RCP for the removal of waste from the 324 and 327 buildings as well as removal of uranium elements from the 300 area.
- **NMS Project Support** – WMP continues to support the NMS Project for the removal of waste from the PFP.