



Section B:1

Waste Management

PROJECT MANAGERS

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SUMMARY

Waste Management 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.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of October 31, 2000. Other data is updated as noted.

ACCOMPLISHMENTS

The shipment of Transuranic (TRU) waste scheduled to leave Hanford on November 9, 2000 was delayed due to concerns over the weather and the condition of the roads in northeastern Oregon. Additionally, the Oregon State expressed concern regarding shipment on a holiday (Veteran's Day). The shipment of 17 cubic meters was completed on November 11, 2000 with concurrence from all parties that the weather was acceptable.

A certified off-site contractor completed permanent repair of the Mixed Waste Trench 34 Leachate Storage Tank's containment liner November 16, 2000.

Three and one-half million gallons of wastewater were processed through the Effluent Treatment Facility (ETF) for the month of October. From October 1, 2000 through November 14, 2000, 4.7 million gallons of wastewater were processed supporting the Environmental restoration Contract 200-UP-1 Groundwater project.

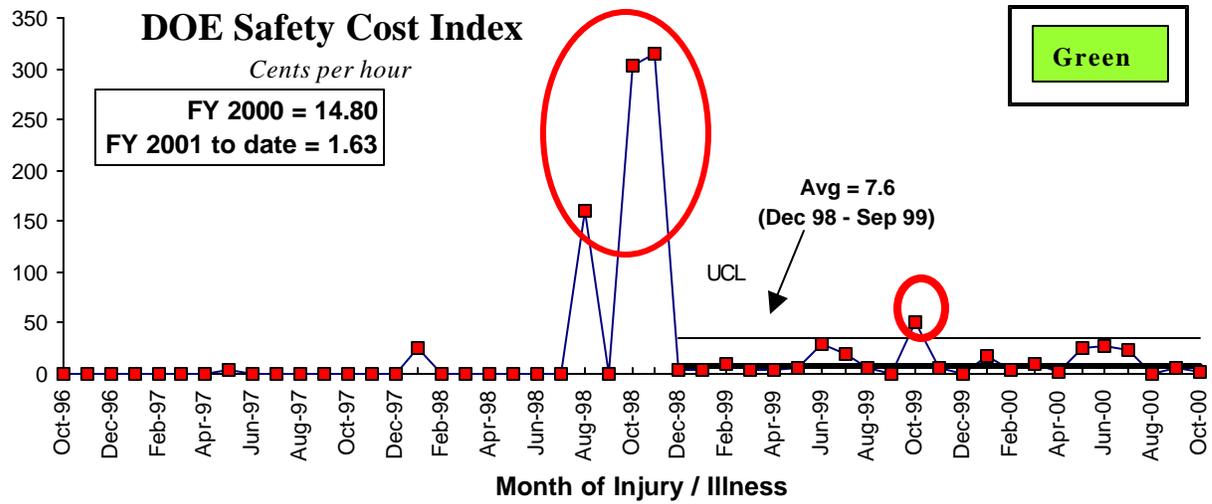
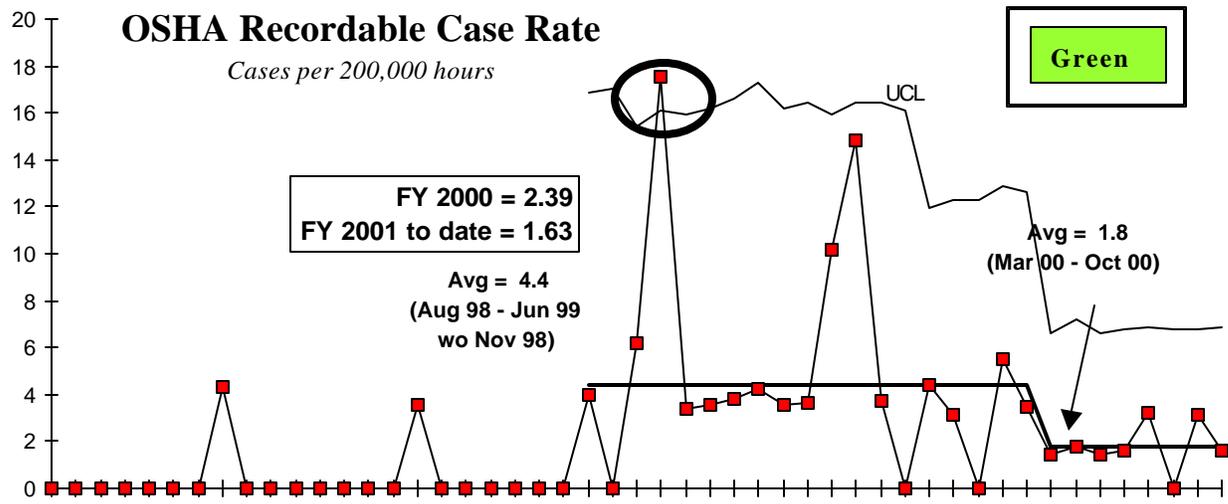
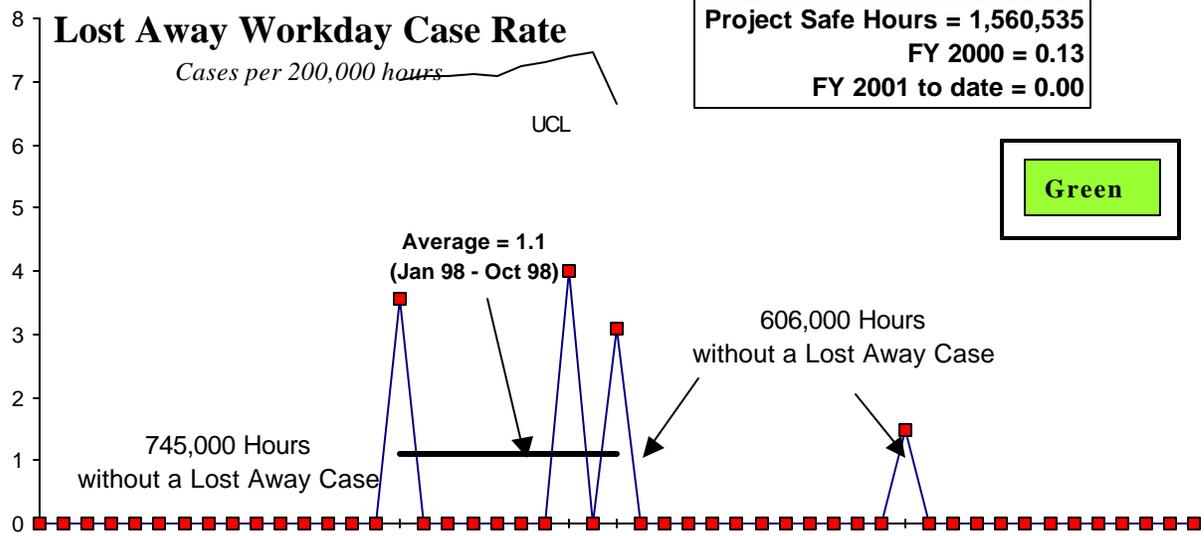
The final report for the Liquid Effluents' Reliability, Availability, and Maintainability (RAM) Analysis was received from Parsons and was distributed for review. The report predicts the availability of the Liquid Effluent Retention Facility (LERF)/ETF and 200 Area Treated Effluent Disposal Facility (TEDF) to receive the liquid effluents from the ORP Waste Treatment Plant. There are no issues with availability of the 200 Area TEDF to receive the non-radioactive liquid effluents.

The following activities were completed at the Waste Receiving and Processing (WRAP) facility:

	Thru <u>10/31/00</u>	Thru <u>11/17/00</u>
NDE on Drums	156	240
NDE on Boxes	0	0
NDA on Drums	80	164
TRU GB Visual Exam - Drums	0	0
TRU GB Repackaged Drums	0	0
LLW GB Drums	0	0

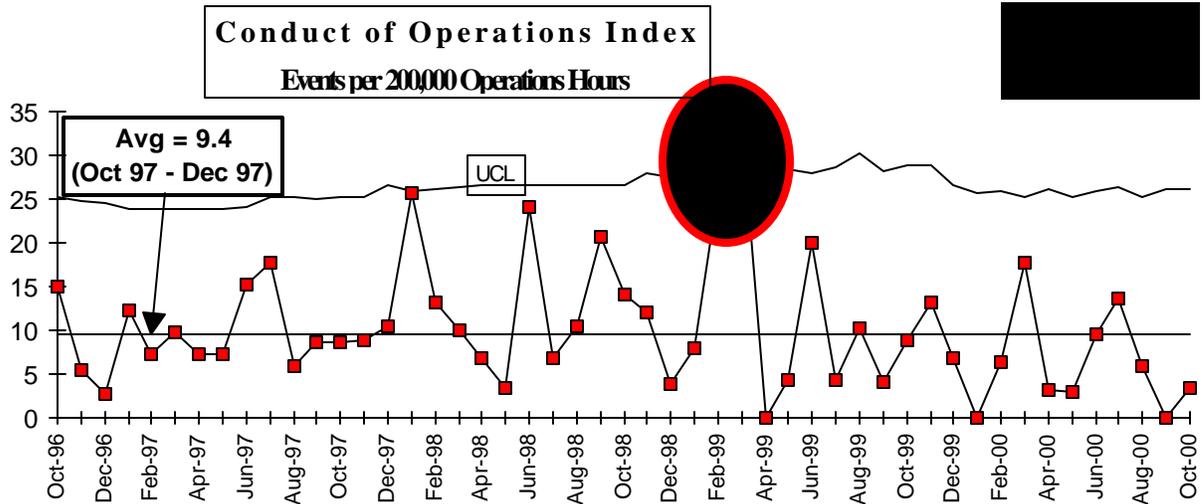
SAFETY

WMP has achieved one and a half million project safe hours. There are also significant reductions in the OSHA recordable case rate, and the Lost/Restricted Workday Case Rate. A new baseline has been established for the OSHA recordable graph at 1.8 cases per 200,000 hours. During the month of October, the WMP experienced no Restricted Workday Cases, six first aid cases, one "report only" (no symptoms) case and one "not job related" case.

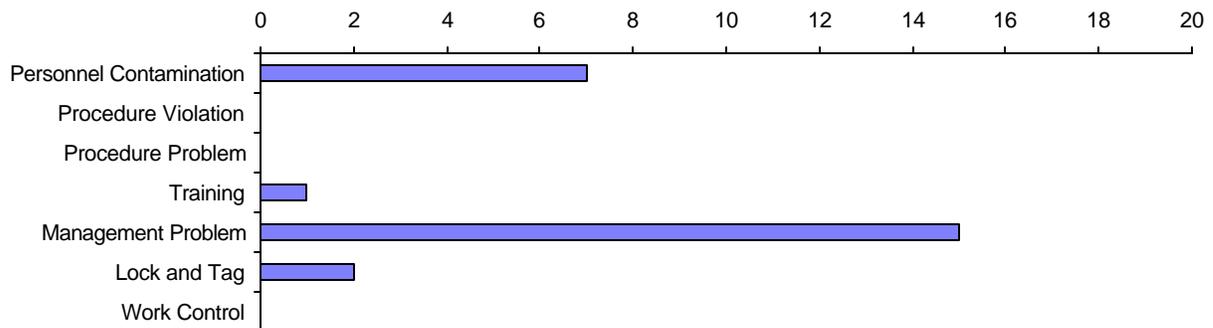


CONDUCT OF OPERATIONS / ISMS STATUS

Green



Number of Reports Past 12 Months



ISMS STATUS

Green

Completed Activities in October 2000:

- Continued development of PHMC ISMS Sustain and Maintain Plans, including determination of performance objectives and schedules.
- Participants from the Project have been identified to support the ISMS National Conference.

Planned Actions:

- Control of the WMP portion of the MP-003 document will be detailed and distributed as part of the Project level “sustain and maintain” efforts. The project will implement the Sustain and Maintain Plan for ISMS when approved.
- Participate and support the ISMS National Conference on December 5-6, 2000.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Nothing to report at this time.

Green

Opportunities for Improvement

Waste Management Strategic Planning — Revision of the Waste Management Project Strategic Plan is underway. A series of workshops have been conducted with the Departments of Energy, Ecology, and the Environmental Protection Agency (EPA). The objective of the effort is to update and improve the Project strategy, to gain regulator "buy-in", to improve the format and presentation of the Strategy, and to develop a basis for the ongoing production of the Multi-Year Work Plan. A series of logic diagrams and an overall schedule graphic have been developed which will serve to improve the communication of the Waste Management Strategic Plan to users/stakeholders. Text development is underway.

Mixed Waste Focus Area — Waste Management continues to work with the Mixed Waste Focus Area (Robotics Product Line) on a technology development/ demonstration activity at Hanford. The details of a demonstration/deployment of size-reduction technologies are being worked out. Initial plans are for a demonstration of size reduction at T Plant during FY 2001, using commercial technologies to size reduce the PUREX Towers TRU currently stored on the canyon deck. This activity supports development of technologies for later application in the M-91 Facility, and also clearing of the deck for sludge receipt. The Mixed Waste Focus Area will provide funding for the activity. A Commerce Business Daily (CBD) notice for size reduction and remote handling technologies has been published.

Land Disposal Restriction (LDR) Report — The legal appeal over the Final Determination continues. Mediation meetings are being held as well as sub-group meetings at the working level to attempt to define acceptable format and data content. Support will be provided as necessary to these activities. PNNL support is available to assist in preparation of the 2001 LDR report. The preparation effort will be initiated as soon as possible, which will be difficult given the changes caused by the mediation efforts.

UPCOMING ACTIVITIES

Remote-Handled TRU Project Management Plan (PMP) — Support RL meetings with Ecology to address Ecology's August 14, 2000 letter disapproving the PMP.

Accelerate Readiness at T Plant to Receive and Store SNF K Basin Sludge —

- Complete entire deck clearing in FY 2001.
- Complete safety basis documentation and long lead procurements in FY 2001. Install handling, drying and loading equipment in FY 2001.
- Complete procedures, training, and Operations Readiness Review (ORR) by June 2001.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Waste Management	\$5.4	\$2.7	\$2.8

The \$2.8 million (51 percent) favorable cost variance is primarily in RL-WM03 Solid Waste Storage and Disposal. Further information at the PBS level can be found in the following Cost Variance Analysis.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Waste Management	\$5.4	\$5.4	\$0.0

There is no schedule variance. Further information at the PBS level can be found in the following Schedule Variance Analysis.

FY 2001 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES

CUMULATIVE TO DATE STATUS – (\$000)

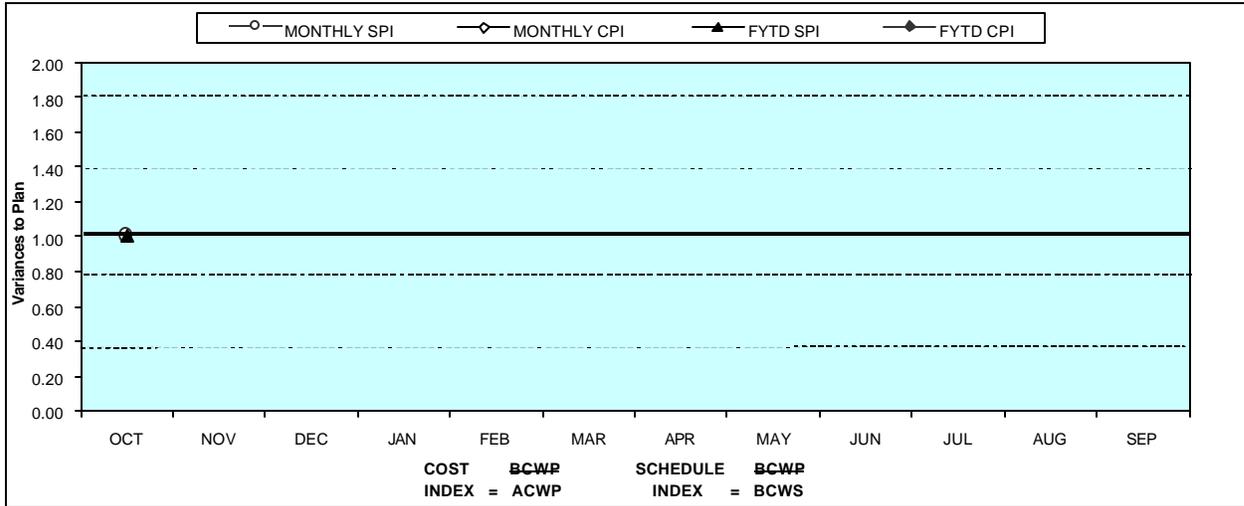
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		FYTD							
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM*
PBS WM03	Solid Waste Storage &	\$ 1,400	\$ 1,407	\$ (494)	\$ 7	1%	\$ 1,901	135%	\$ 25,276
WBS 1.2.1	Disposal								
PBS WM04	Solid Waste Treatment	\$ 1,840	\$ 1,833	\$ 1,420	\$ (7)	0%	\$ 413	23%	\$ 36,151
WBS 1.2.2									
PBS WM05	Liquid Effluents -	\$ 1,586	\$ 1,597	\$ 1,194	\$ 11	1%	\$ 403	25%	\$ 27,249
WBS 1.2.3	200/300 Area								
PBS TP02	WESF	\$ 586	\$ 589	\$ 551	\$ 3	0%	\$ 38	6%	\$ 10,721
WBS 1.4.2									
Total		\$ 5,413	\$ 5,426	\$ 2,671	\$ 13	0%	\$ 2,755	51%	\$ 99,397

*PBS WM05 includes the 300 Area Liquid Effluent, which is part of the River Corridor Project.
 RL-Directed costs (steam and laundry) are included in the Project Execution Module (PEM) BCWS.

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)

Green



FY 2001	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	1.00											
MONTHLY CPI	2.03											
FYTD SPI	1.00											
FYTD CPI	2.03											
MONTHLY BCWS	\$ 5,413	\$ 8,866	\$ 7,676	\$ 9,048	\$ 7,427	\$ 7,900	\$ 8,074	\$ 10,665	\$ 7,563	\$ 7,544	\$ 9,791	\$ 9,430
MONTHLY BCWP	\$ 5,426											
MONTHLY ACWP	\$ 2,671											
FYTD BCWS	\$ 5,413	\$ 14,279	\$ 21,956	\$ 31,004	\$ 38,431	\$ 46,330	\$ 54,404	\$ 65,069	\$ 72,632	\$ 80,176	\$ 89,967	\$ 99,397
FYTD BCWP	\$ 5,426											
FYTD ACWP	\$ 2,671											

COST VARIANCE ANALYSIS: (+ \$2.8M)

WBS/PBS

Title

1.2.1/WM03

Solid Waste Storage & Disposal

Description/Cause: The favorable cost variance of \$1.9M (135 percent) is primarily due to pool billings not processed, an incorrect fee accrual, and budgeted staff supporting SNF.

Impact: No impact.

Corrective Action: The billings and fee accrual will be corrected in November.

1.2.2/WM04

Solid Waste Treatment

Description/Cause: The favorable cost variance of \$0.4M (23 percent) is due to pool billings not being processed, vacancies, and TRU contracts not yet finalized.

Impact: No impact.

Corrective Action: The billings will be processed and the contracts finalized in November. The vacancies are being evaluated.

1.2.3.1/WM05

Liquid Effluents

Description/Cause: The favorable cost variance of \$0.4M (25 percent) is a result of the pool billings not being processed, and vacancies.

Impact: No impact.

Corrective Action: The billings will be processed in November. The vacancies are being evaluated.

1.4.2/TP02

WESF

Description/Cause: The favorable cost variance of \$0.04M (6 percent) is within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

SCHEDULE VARIANCE ANALYSIS: (\$0.0M)

WBS/PBS

Title

1.2.1/ WM03

Solid Waste Storage & Disposal

Description /Cause: The favorable schedule variance of \$0.01M (1 percent) is within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

1.2.2/ WM04

Solid Waste Treatment

Description /Cause: The unfavorable schedule variance of \$0.01M (0.4 percent) is within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

1.2.3.1/ WM05

Liquid Effluents

Description /Cause: The favorable schedule variance of \$0.01M (0.7 percent) is within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

1.4.2/ TP02

WESF

Description /Cause: There is no schedule variance.

Impact: No Impact.

Corrective Action: No corrective action required.

ISSUES

Technical Issues

None.

DOE/Regulator/External Issues

Interim Report for Hanford Land Disposal Restrictions (LDR) for Mixed Wastes —

Substantial areas of disagreement still exist between RL and Ecology on the required scope and content of the Annual LDR Submittal as delineated in the Final Determination issued by the Director of Ecology on March 29, 2000. RL is appealing certain aspects of the Ecology requirements, with formalized hearings scheduled for early in calendar year 2001.

There are still major disagreements with Ecology over LDR reporting requirements. The most significant is the definition of "waste", as Ecology wants materials that have not yet been declared waste to be managed as waste and reported on annually. Ecology submitted "Motion for Partial Summary Judgment" on September 25, 2000, to the court in order to attempt to have RL's appeal of the Final Determination dismissed. In response, RL submitted a legal document that argued against this position. Ecology then responded with another document arguing against DOE's position. Talks are underway with Ecology on LDR and several other issues in an attempt to resolve them without litigation.

Hanford Facility (HF) RCRA Permit — The RL Regulatory Compliance Analysis Division informally proposed to Ecology that the agency incorporate lessons learned from the 222-S Laboratory Complex Part B permit application negotiations into the Central Waste Complex (CWC) and Waste Receiving and Processing (WRAP) portions of the HF Resource Conservation and Recovery Act of 1976 (RCRA) Permit. This would further delay issuance of Modification E, but would be of great benefit to both facilities. Modification E will incorporate the CWC and the 616 Non-radioactive Dangerous Waste Storage Facility (NRDWSF) Closure Plan into the RCRA Permit.

Remote-Handled TRU Project Management Plan (PMP) — Ecology disapproved the PMP (Tri-Party Agreement milestone M-91-03) on August 14, 2000 due to the submittal not meeting the requirements set forth in Section 11.5 of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement). Internal meetings with RL are ongoing and meetings with Ecology occurred in mid-September; a path-forward for resolution of Ecology's concerns with the PMP is being developed based on these discussions.

Impacts of Waste Management PEIS and ROD — The Waste Management Programmatic Environmental Impact Statement (PEIS) was issued on February 25, 2000. The Records of Decision (ROD) for low-level waste and mixed low-level waste will affect Hanford's disposal role for the Complex and may have a significant impact on disposal volumes and rates at Hanford. DOE-HQ and Ecology negotiations continue; impacts depend upon the results of these negotiations.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	COST IMPACT \$000	S C H	T E C H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
WM-2000-015	7/26/00	WMP FY 2001 MYWP Revision	\$0			8/31/00	9/25/00		At DOE-RL
FH-2001-001	9/12/00	Base Ops Reduction for PHMC Projects	-\$5,036		X				At DOE-RL
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$740						At DOE-RL
FH-2001-003	9/25/00	FY2001 Addition of High Priority Workscope	\$5,639		X				At DOE-RL
ADVANCE WORK AUTHORIZATIONS									
WMP-AWA-001	10/18/00	FY2001 LDR scope					10/18/00	10/18/00	

Green

MILESTONE ACHIEVEMENT

M ILESTONE 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	0	0	0	3	0	3
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	4	0	4

Only TPA/EA milestones and all FY2001 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 FY2001 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-91-11-T01 (A2G-01-103)	Submit LLWM Facility ES/FDC to Ecology	Due 12/31/00
M-91-12 (A2G-01-104)	Initiate Thermal Treatment of CH-LLMW	Due 12/31/00
M-91-13 (A1C-01-001)	Initiate Disposal of CH-LLWM	Due 06/30/01
M-26-05H (WMH-00-006)	Prep Biennial Tritium Treatment Technology Evaluation report	Due 08/31/01.

DNFSB Commitments

	Nothing to report at this time.	
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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 1.4.2	RL	Complete Hot Cell Deactivation WESF Facility (A-E)	03/31/99	03/30/01
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Cause: This milestone is not complete due to not being supported at the current funding level.

Impact: No overall impact is expected.

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

FY 2002 Tri-Party Agreement / EA Milestones

Number	Milestone Title	Status
	Nothing to report at this time.	

DNFSB Commitments

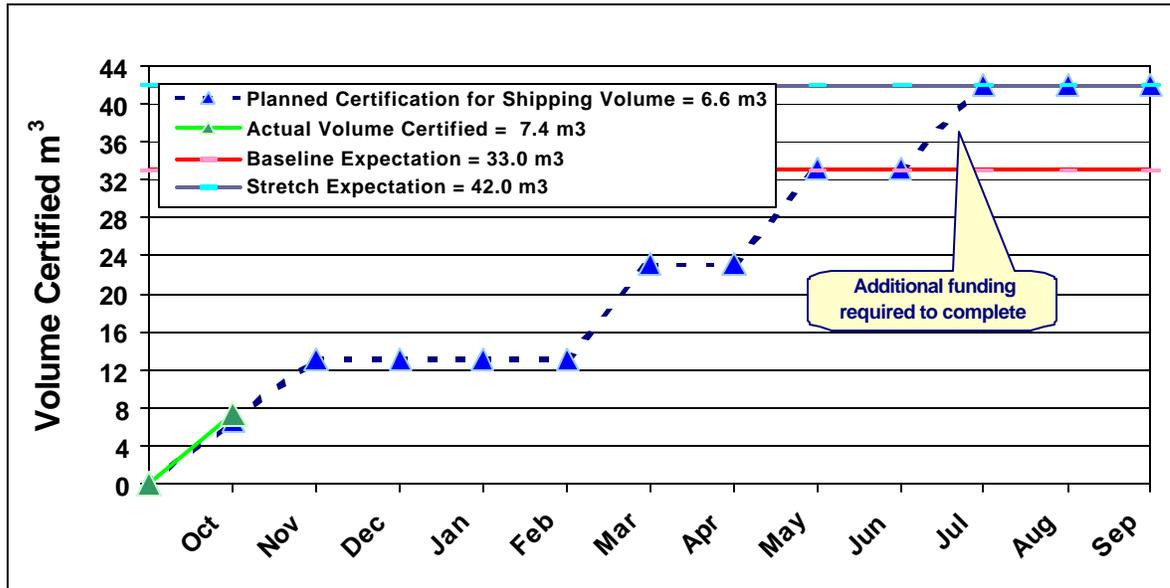
	Nothing to report at this time.	
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PERFORMANCE OBJECTIVES

Performance Objectives have not been finalized and are to be considered as “preliminary” at this time.

TRU CERTIFICATION FOR SHIPPING

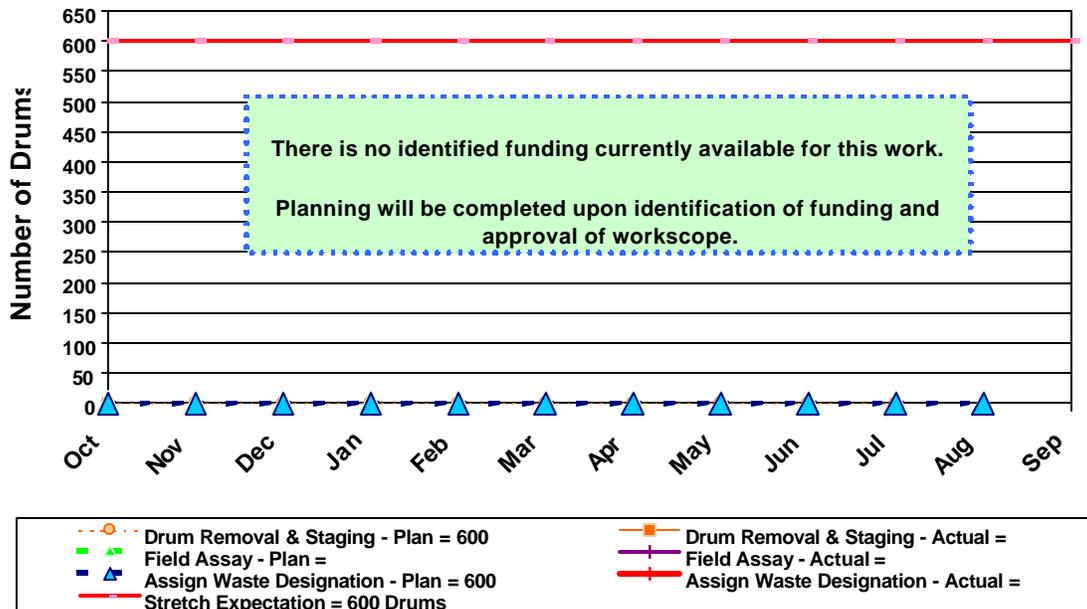
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Action Plans: On track and currently ahead of schedule. 7.4m³ certified through October 2000.

STORED SUSPECT TRU RETRIEVAL

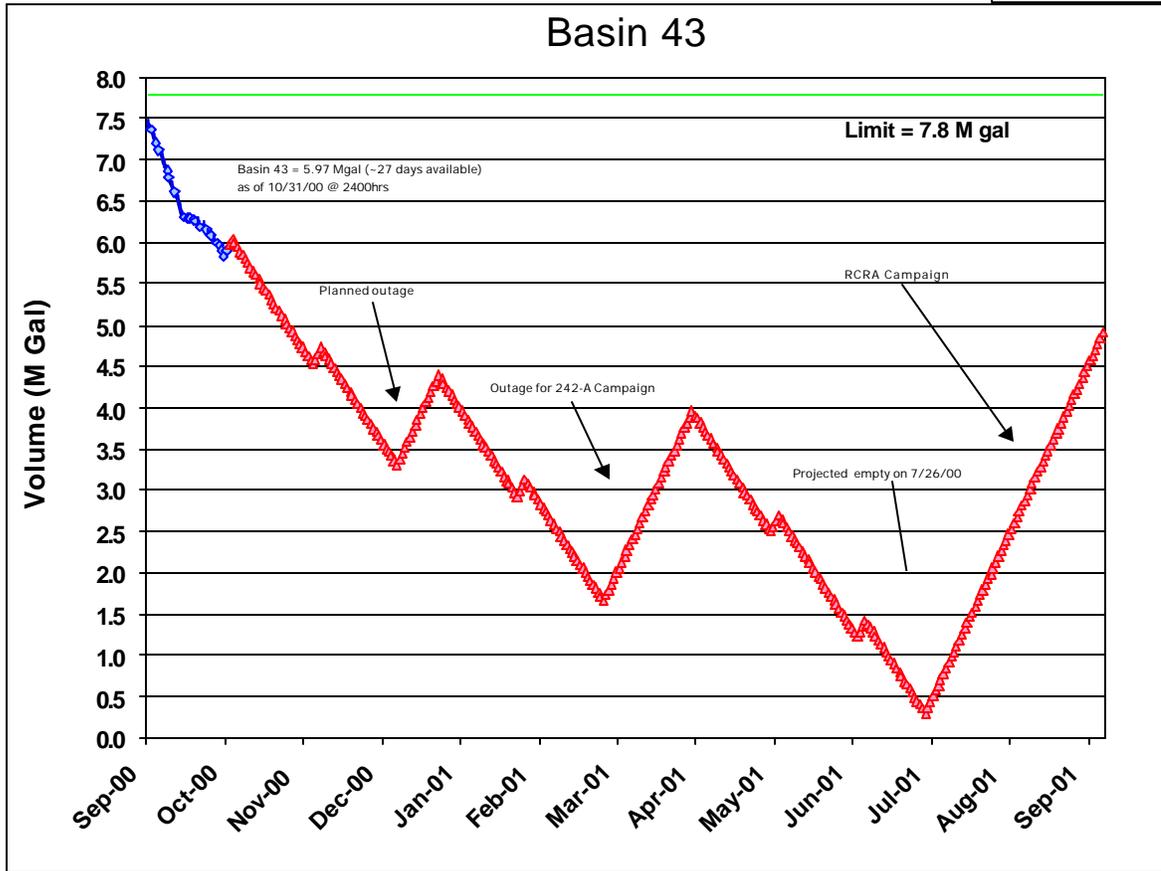
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Action Plans: Working to identify funding and obtain approval of work scope.

LIQUID WASTE PROCESSING

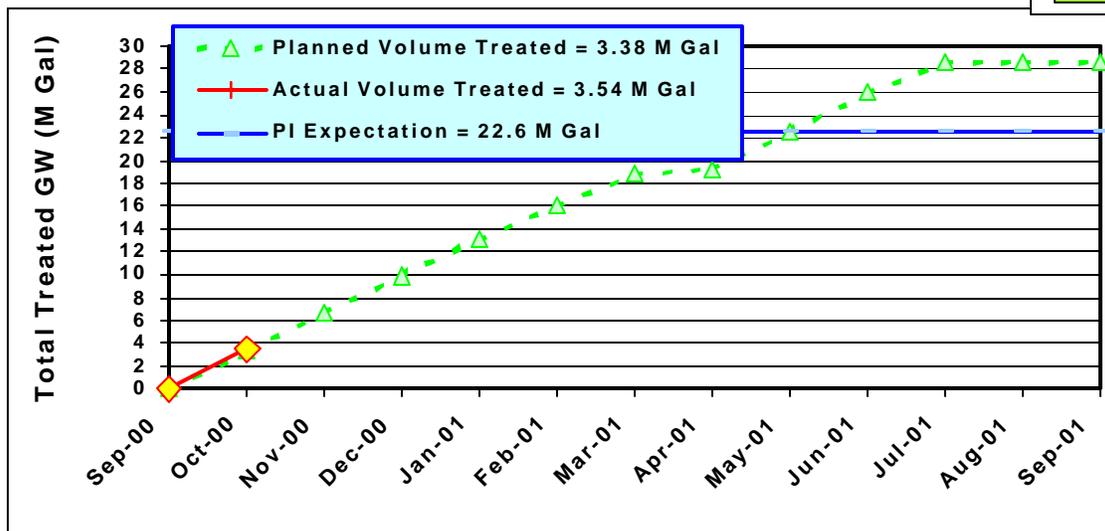
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Action Plans: On track. At the end of October, 1.82 M gallons of space available in Basin #43.

UP-1 GROUNDWATER TREATMENT

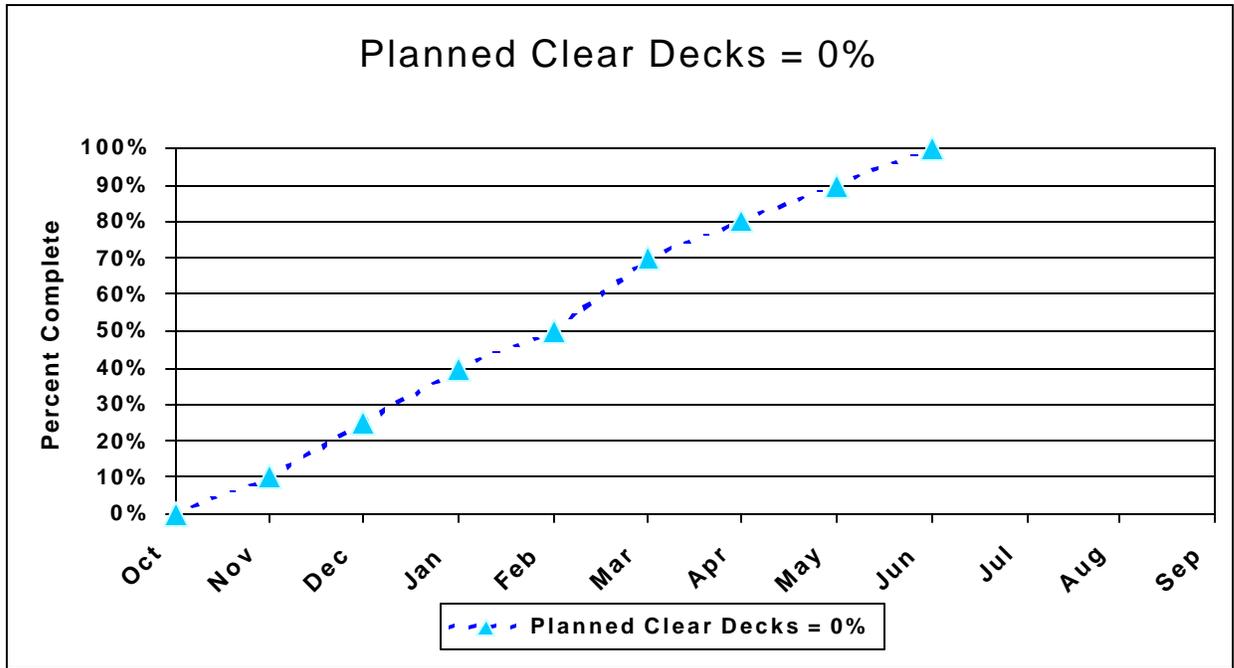
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Action Plans: On track. Through October processed 3.54 M gallons.

T PLANT DECK CLEARING

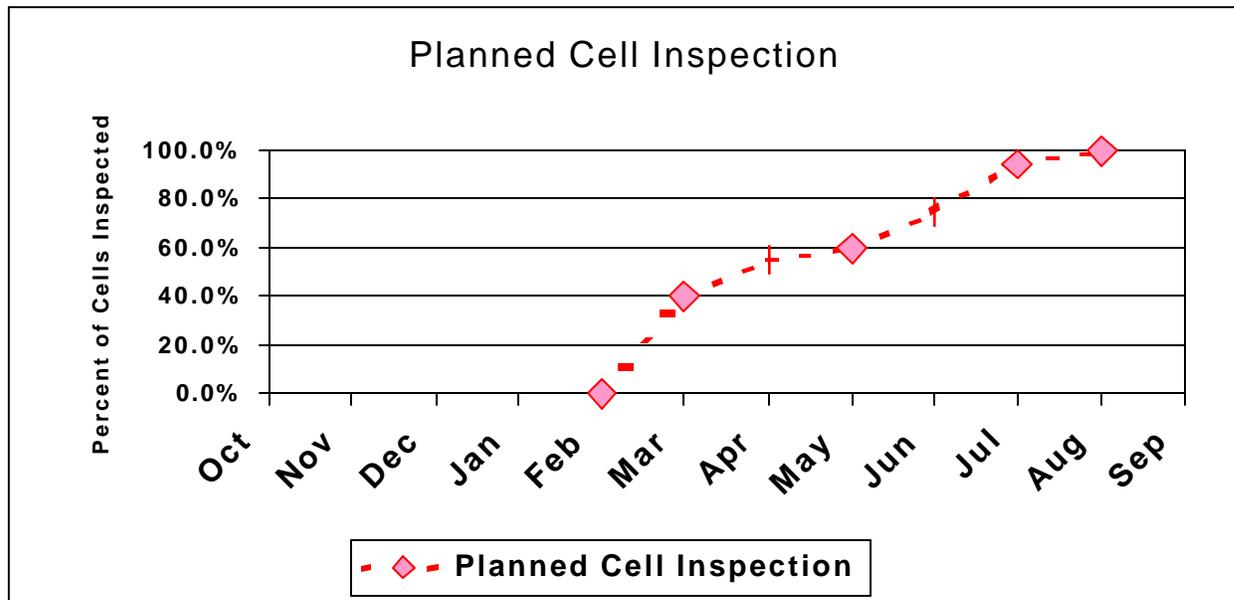
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Action Plans: On track. Deck clearing will resume in November.

T PLANT CELL INSPECTION

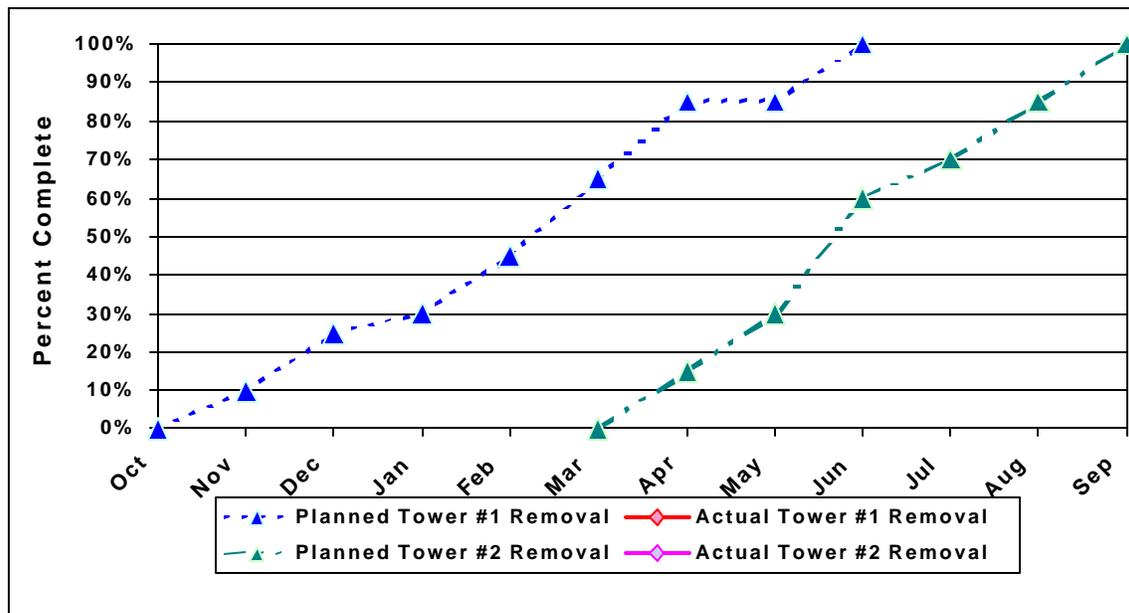
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Action Plans: On track. Cell inspection tied to deck clearing will resume in November.

T Plant Tower Removal

Green



Action Plans: On track.

KEY INTEGRATION ACTIVITIES

- Preparing T Plant to receive Spent Nuclear Fuel K Basin sludge.
- Issuance of Records of Decision for Low-Level Waste (LLW) and Mixed Low-Level Waste (MLLW) is expected to affect Hanford's role in disposing of waste from other sites. Working with DOE-RL, DOE-HQ and other Sites to develop and define Hanford's role as one of the identified LLW/MLLW disposal sites for the Complex. A comprehensive strategy will be developed for the DOE complex low-level waste with the Nevada Test Site by the end of FY 2001.
- Support continued UP-1 Groundwater treatment.
- Support River Corridor Project in cleanup and removal of waste from 324 and 327 buildings.
- Support the ORP Waste Treatment Plant.
- Continue working with PNNL, EM 50 and Mixed Waste Focus Area (MWFA) to obtain funding in support of mixed waste processing (M-91 Facility Project).
- Continue to work with DOE- RL, -Oakland, and -Ohio to support resolution of TRU small quantity site disposition issues.
- Support visits from both the DOE-Idaho Program Office and the Office of the Inspector General in regards to opportunities for treatment/disposal of Idaho National Engineering Environment Laboratory (INEEL) wastes at Hanford.