

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.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, and Cost/Schedule Date contained herein is as of February 29, 2000. Other information is updated as noted.

Discussions are underway to obtain Carlsbad Area Office (CAO) support for the closure audit of Hanford's TRU Project on April 17, 2000. All five Corrective Action Reports (CARs) have been completed and are being routed through DOE-RL for transmittal to CAO. Plans are to achieve WIPP Certification and initiate TRU shipments in May of 2000.

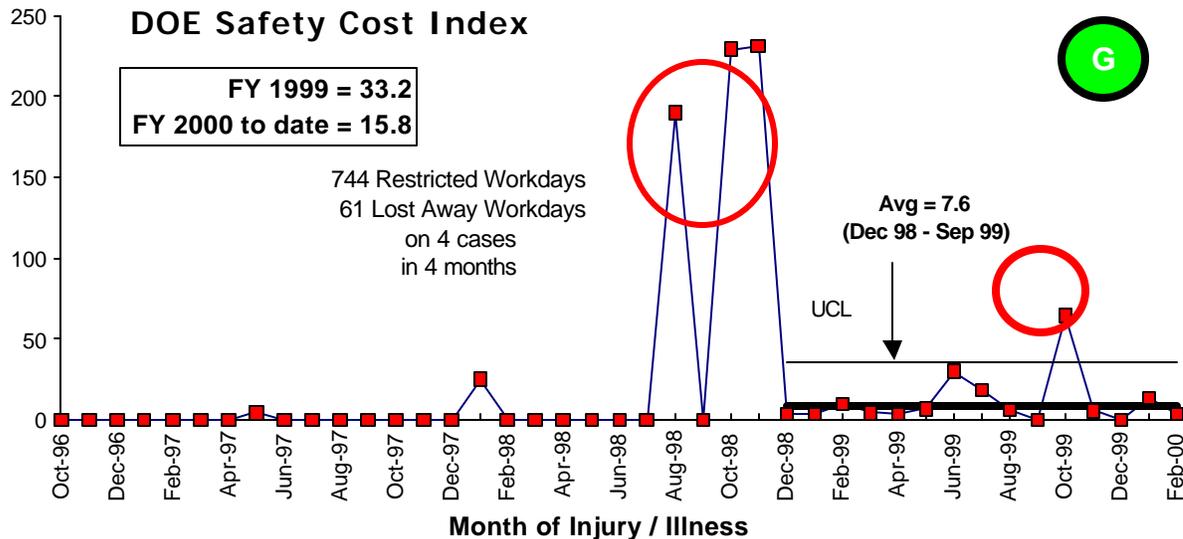
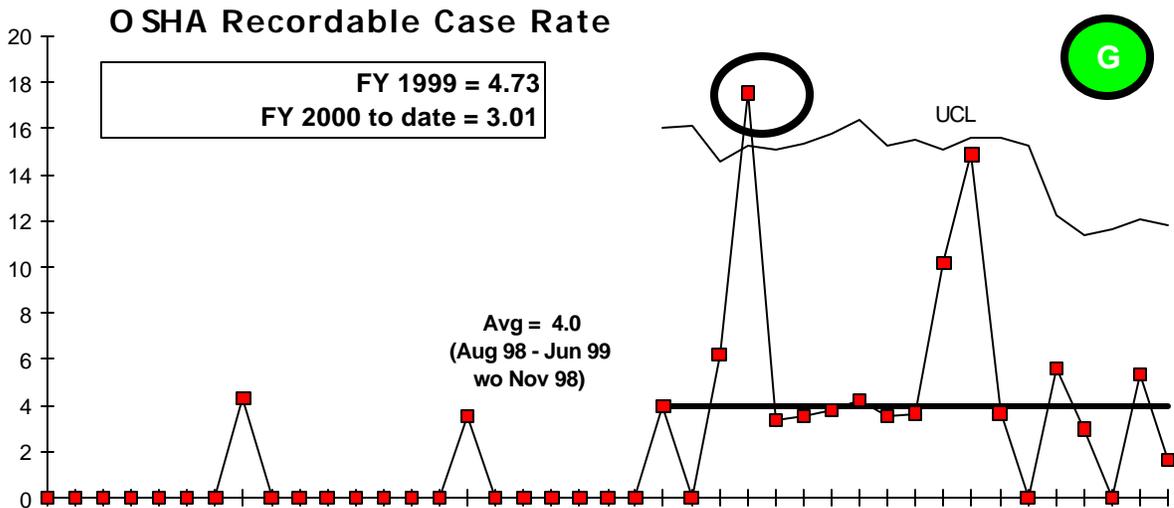
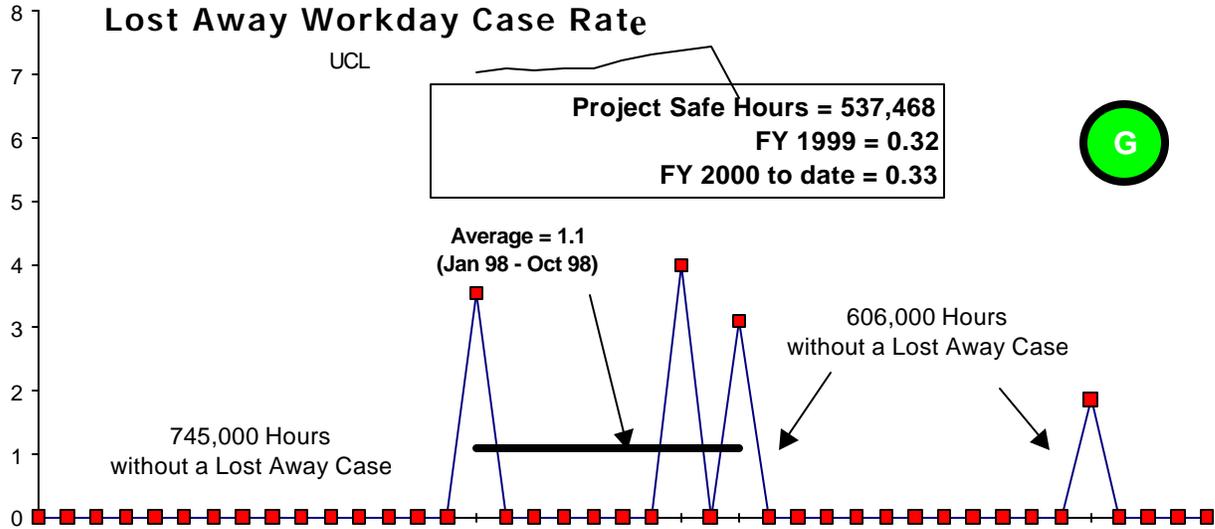
Fiscal-year-to-date milestone performance (EA, DOE-HQ and RL) shows that one of one milestones (100 percent) were completed on or ahead of schedule this reporting period.

ACCOMPLISHMENTS

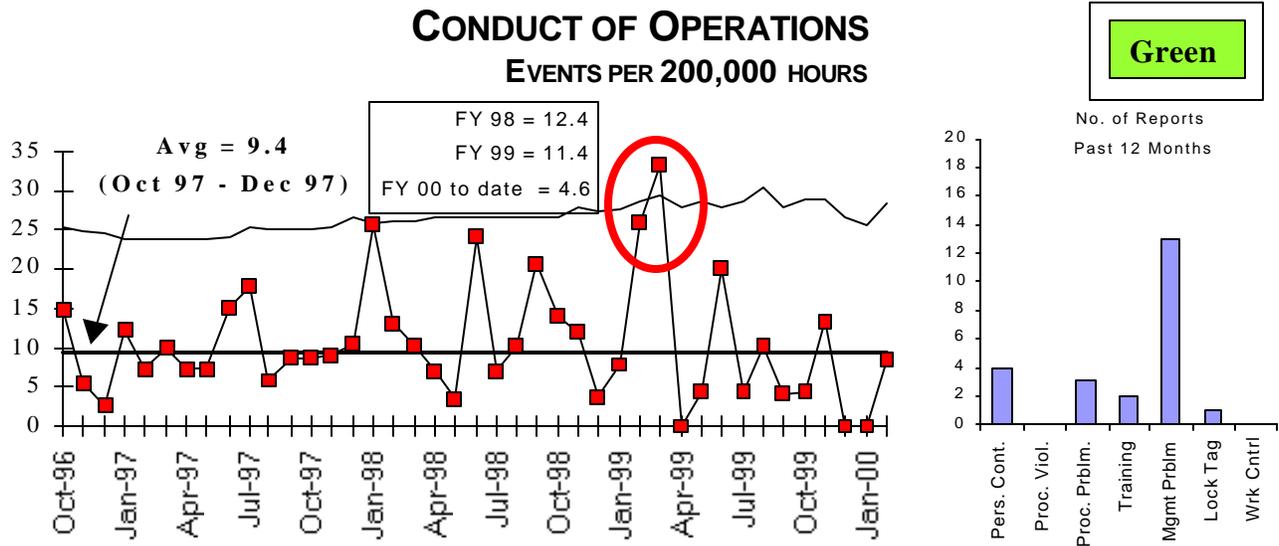
- Disposed of 74,800 ft³ (FYTD) of Low Level Waste (LLW) in the burial grounds, as planned.
- Processed 3.9 million gallons (February FYTD) of wastewater through the 200 Effluent Treatment Facility supporting River Protection Project (RPP), ERC 200-UP-1 Groundwater, N-Basin Water, and ERDF Leachate, as planned. FYTD through March 27, 2000, 6.6 million gallons of wastewater have been processed. Evaluated support to additional feed volume in the upcoming 242A Evaporator campaign in support of RPP.
- Completed nondestructive examination (NDE) on 339 drums, radiography on 25 boxes, non-destructive assays of 273 drums, processing of 29 drums through the low-level waste repackaging/compaction glovebox, and visual examinations of 25 transuranic drums at the Waste Receiving and Processing (WRAP) facility, as planned through March 30, 2000.
- Shipped 154 boxes, totaling 645 cubic meters, of mixed low-level waste to ATG. This waste volume represents an effective CWC storage volume reduction of 1,325 cubic meters due to waste over-packing. ATG has completed treating, and Hanford has accepted back for disposal, twenty-five (25) macro-encapsulated waste containers totaling 66 cubic meters of waste as planned (all data as of March 30, 2000).
- The final Liquid Waste Processing Facility (LWPF) acid spill accident investigation report and accompanying failure analysis was issued February 29, 2000 and is available on the Internet (<http://www.hanford.gov/safety/accident.html>).

SAFETY

The project's safety rates are stable at relatively high values. The October 1999 Lost Away Case was a severe Acid Burn injury. However, this has been the only lost away workday case in 16 months. The project has exceeded the 500,000 safe hours.



CONDUCT OF OPERATIONS / ISMS STATUS



ISMS STATUS

Green

Completed activities:

- Complied with MP-003 format changes and guidance. Submitted draft System Descriptions (SDs), for WMP / AS for inclusion into that document.
- ISMS Self Assessment completed with Noteworthy Practices and Opportunities for Improvement identified.
- Training Sessions 1 & 2 completed, and 12 Communication Bulletins written and distributed.
- Drafts of WMP's Authorization Agreements are written and in the final review process, prior to DOE approval.
- ISMS Workshop III completed.

Planned Actions:

- Conduct Training Session 3 (DRAFT--ISMS Verification status and Path forward Actions)
- Revise and issue procedures identified for inclusion in SD
- Complete and issue Self Assessment reports for both WMP and AS
- Develop Corrective Action Plans and close remaining issues
- Submit final SD
- Prepare and implement review process for Declaration of Readiness
- Declare Readiness
- Generate & implement outyear plan to sustain and maintain ISMS effort

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No Breakthroughs or Opportunities for Improvement are identified at this time.

UPCOMING ACTIVITIES

WIPP Certification and Waste Shipments— Discussions are underway to obtain CAO support for the closure audit on April 17, 2000. Complete WIPP Certification of Hanford's TRU Project and initiate TRU shipments in the spring of 2000.

242A Evaporator Operations $\frac{3}{4}$ Conduct 242-A Evaporator Campaign beginning in April 2000, including the additional volume to support RPP.

RH TRU PMP — Issue Project Management Plan for RH TRU in June 2000 to meet M-91 milestone.

MLLW Treatment — Treat 1,160 cubic meters (includes 100 cubic meters stretch) of MLLW at ATG by August 2000; dispose of Land Disposal Restriction compliant waste by September 2000.

Suspect TRU Waste Retrieval — Retrieve 400 drums of suspect TRU waste from the Low-Level Burial Grounds by September 2000.

Accelerate Readiness to Receive Spent Nuclear Fuel K Basin Sludge — Clear three sections of the T Plant Canyon deck in FY 2000 and complete entire deck clearing by FY 2001. Complete Project Execution Plan and Conceptual Design Document for removal of Shippingport Fuel from T Plant in FY 2000. Develop design requirements by September 2000 for acceptance of K Basin sludge at T Plant.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Waste Management	\$37.2	\$37.9	- \$0.7

The \$0.7 million (2 percent) unfavorable cost variance is within the established threshold. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

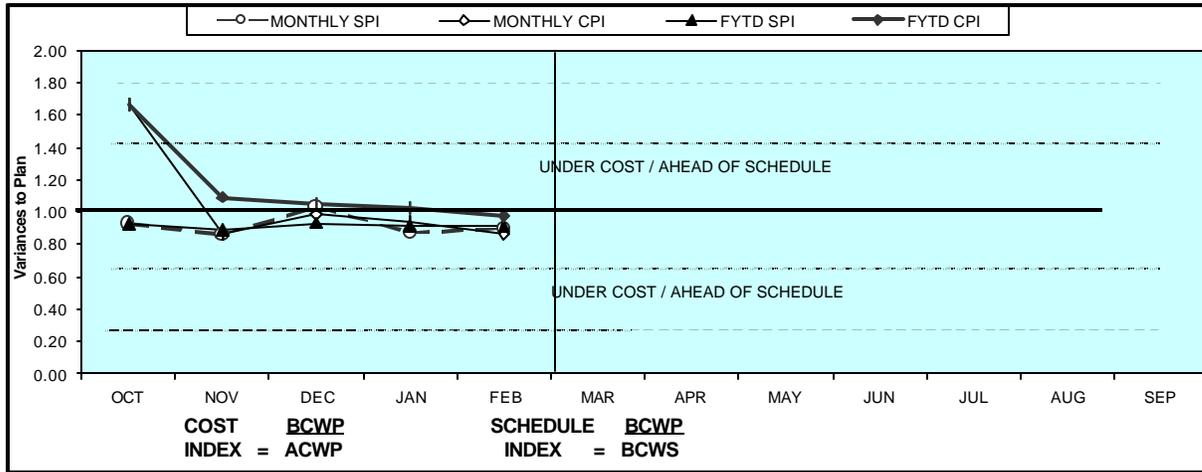
	BCWP	BCWS	VARIANCE
Waste Management	\$37.2	\$40.7	- \$3.5

The \$3.5 million (9 percent) unfavorable schedule variance is primarily due to delays in TRU production and MLLW treatment. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD							
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM
1.2.1	Solid Waste Storage								
WM03	& Disposal	\$ 14,035	\$ 13,828	\$ 13,081	\$ (207)	-1%	\$ 748	5%	\$ 36,395
1.2.2	Solid Waste								
WM04	Treatment	\$ 10,665	\$ 9,292	\$ 10,726	\$ (1,374)	-13%	\$ (1,434)	-15%	\$ 30,106
1.2.3	Liquid Effluents -								
WM05	200 Area	\$ 10,855	\$ 9,657	\$ 9,348	\$ (1,199)	-11%	\$ 309	3%	\$ 29,267
1.4.2									
TP02	WESF	\$ 5,192	\$ 4,427	\$ 4,747	\$ (765)	-15%	\$ (320)	-7%	\$ 14,284
Total		\$ 40,748	\$ 37,203	\$ 37,901	\$ (3,545)	-9%	\$ (698)	-2%	\$ 110,052

COST/SCHEDULE PERFORMANCE INDICES (FEBRUARY 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.93	0.86	1.03	0.88	0.90							
MONTHLY CPI	1.66	0.87	0.98	0.94	0.86							
FYTD SPI	0.93	0.89	0.93	0.92	0.91							
FYTD CPI	1.66	1.09	1.05	1.02	0.98							
MONTHLY BCWS	\$ 6,641	\$ 9,616	\$ 7,269	\$ 8,331	\$ 8,891							
MONTHLY BCWP	\$ 6,163	\$ 8,277	\$ 7,499	\$ 7,291	\$ 7,973							
MONTHLY ACWP	\$ 3,703	\$ 9,518	\$ 7,619	\$ 7,789	\$ 9,272							
FYTD BCWS	\$ 6,641	\$ 16,257	\$ 23,526	\$ 31,857	\$40,748							
FYTD BCWP	\$ 6,163	\$ 14,440	\$ 21,939	\$ 29,230	\$37,203							
FYTD ACWP	\$ 3,703	\$ 13,221	\$ 20,840	\$ 28,629	\$37,901							

COST VARIANCE ANALYSIS: (-\$0.7M)

WBS/PBS

Title

1.2.1/WM03

Solid Waste Storage & Disposal

Description/Cause: The favorable cost variance of \$0.7M (5 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 cost variance of -\$1.4M (-15 percent) is due to scope being performed under an Advanced Work Authorization (AWA) for T Plant support to accelerated SNF sludge removal. In addition, there are retooling costs caused by the new WIPP permit changes.

Impact: No impact.

Corrective Action: A BCR has been drafted to reflect the additional workscope for T-Plant and the TRU Project.

ISSUES

Technical Issues

Nothing to report at this time.

DOE/Regulator/External Issues

The Waste Management Programmatic Environmental Impact Statement (PEIS) was issued on February 25, 2000. The Records of Decision (ROD) for LLW and MLLW will affect Hanford's disposal role for the Complex. The ROD outcomes may have a significant impact on disposal volumes and rates at Hanford.

Certification of Hanford's TRU Project is necessary to initiate waste shipment to WIPP.

Continue working with the Carlsbad Area Office, the Environmental Protection Agency and the New Mexico Environment Department to achieve WIPP certification of Hanford's TRU Project and initiate waste shipment to WIPP.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
WM-2000-002	1/5/00	Waste Management FY 2000 Mandated Funds Reduction	-\$3,042			02/17/00			Pending
FSP-2000-007	12/2/99	WESF FY 1999 Carryover	\$160			01/14/00	01/14/00	02/11/00	Approved
FSP-2000-018	1/25/00	WESF Mandated Funds Reduction	-\$1,100			02/29/00	02/29/00		At DOE-RL
WM-2000-003	2/8/00	T-Plant Canyon Deck Clean off and PWR Fuel Removal	TBD	x	x	TBD			Draft in Review withDOE-RL
WM-2000-004	2/8/00	WMP Stretch Goals	\$0	x	x	TBD			In Draft
ADVANCE WORK AUTHORIZATIONS									
AWA	2/24/00	T Plant Canyon Deck cleanout/PWR	\$1,150	X				02/25/00	Acceleration of scope
AWA	2/25/00	TRU Retrieval	\$165	X				02/25/00	Acceleration of scope

WASTE MANAGEMENT – WBS 1.2 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	1	0	0	0	0	1	0	2
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	9	0	9
Total Project	1	0	0	0	0	10	0	11

Tri-Party Agreement / EA Milestones

Number	Milestone Title	Status
M-91-03 (WMH-00-001)	Issue TRU/TRUM Waste PMP	due 06/30/00 — On schedule (stretch)
M-91-04 (A2J-00-001)	Complete Construction of CH TRU/TRUM Retrieval Facility	due 09/29/00 — DOE-RL issued a letter to Ecology on February 29, 2000 documenting closure of the TPA milestone as retrieval has been initiated and is planned to continue, even without construction of Project W-113 facilities.

DNFSB Commitments

	Nothing to report	

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	09/30/00
1.4.2		WESF Facility (A-E)		

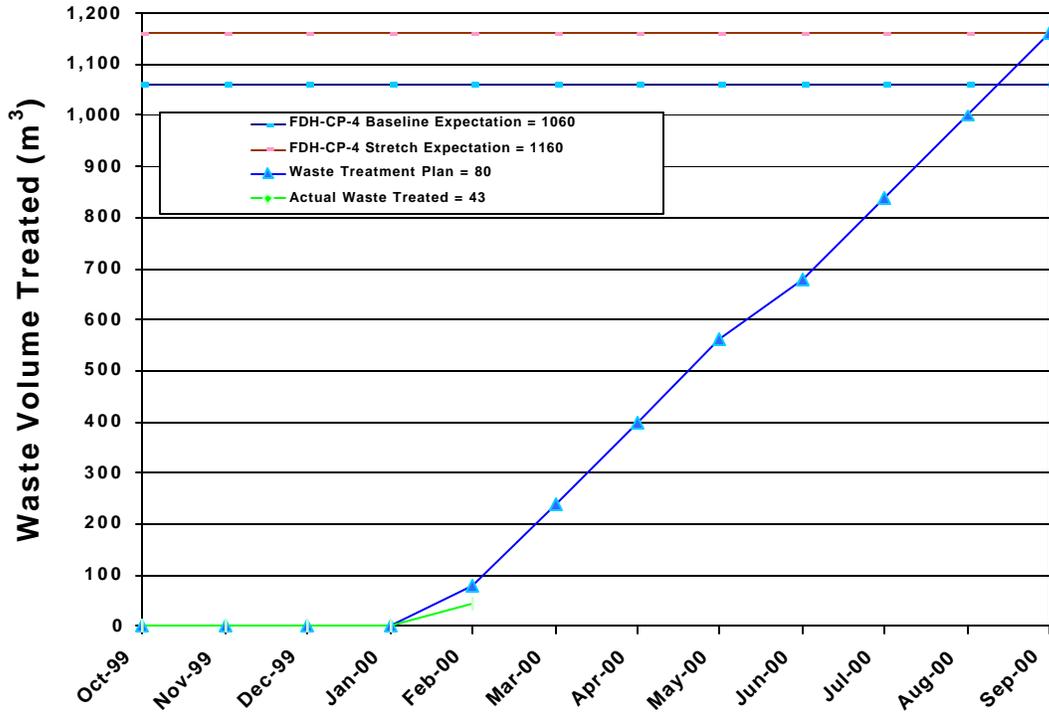
Cause: This milestone is not complete due to not being supported at the current funding level.

Impact: No overall impact is expected.

Corrective Action: Return-on Investment (ROI) funding has been identified for this work scope and a new forecasted completion date of September 30, 2000 established.

PERFORMANCE OBJECTIVES MLLW TREATMENT

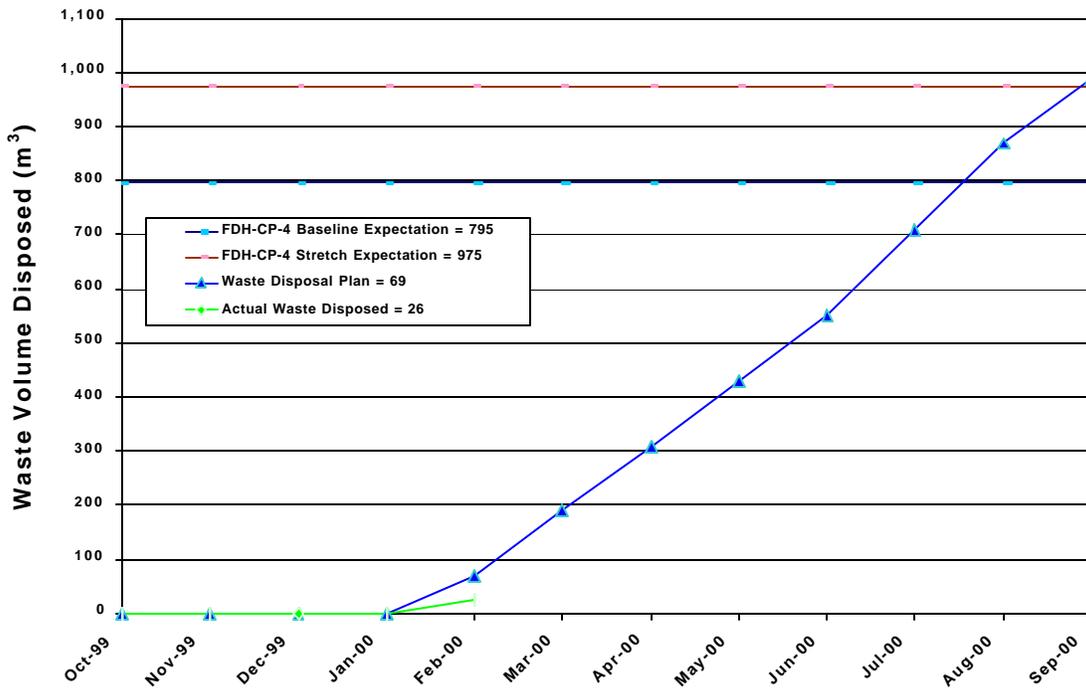
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Action Plans: Ramping-up to meet stretch expectation.

Green

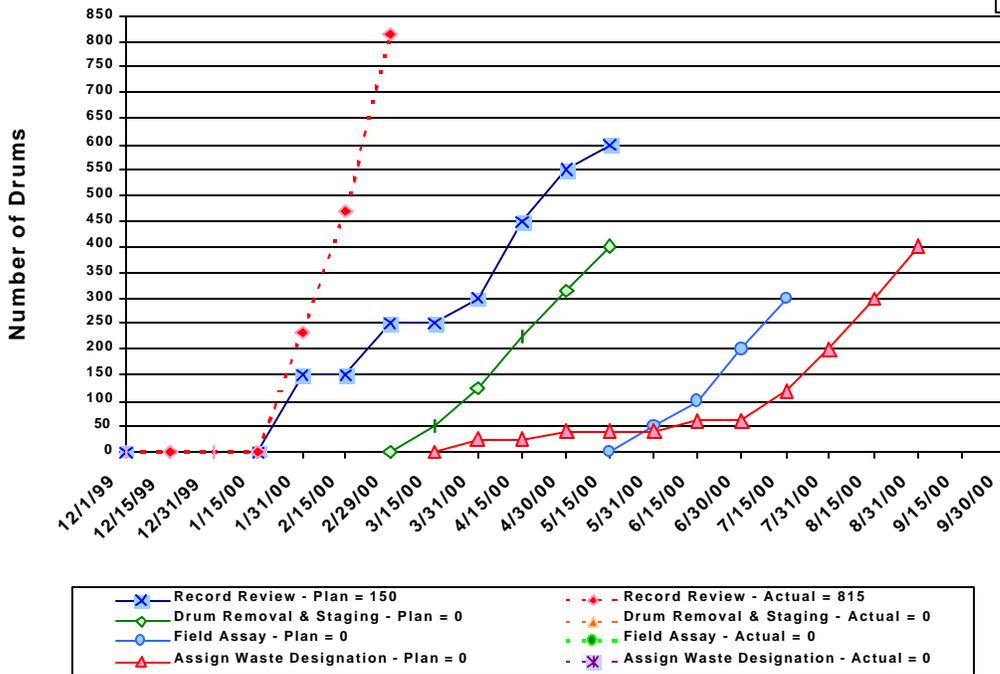
MLLW DISPOSAL



Action Plans: Ramping-up to meet the baseline expectation.

TRU RETRIEVAL

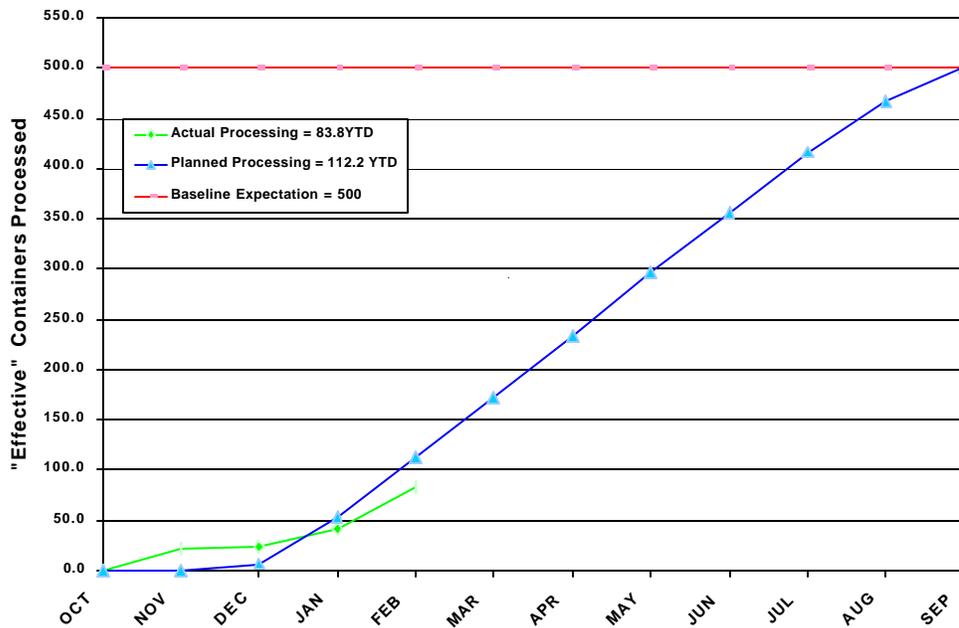
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Action Plans: On track. Completed over 800 document reviews through February. Field retrieval activities are planned to start in late March, which includes removing the drums from the stack, performing container inspections, and completing radiological surveys. Negotiating additional super-stretch incentives with DOE-RL.

TRU CONTAINER PROCESSING

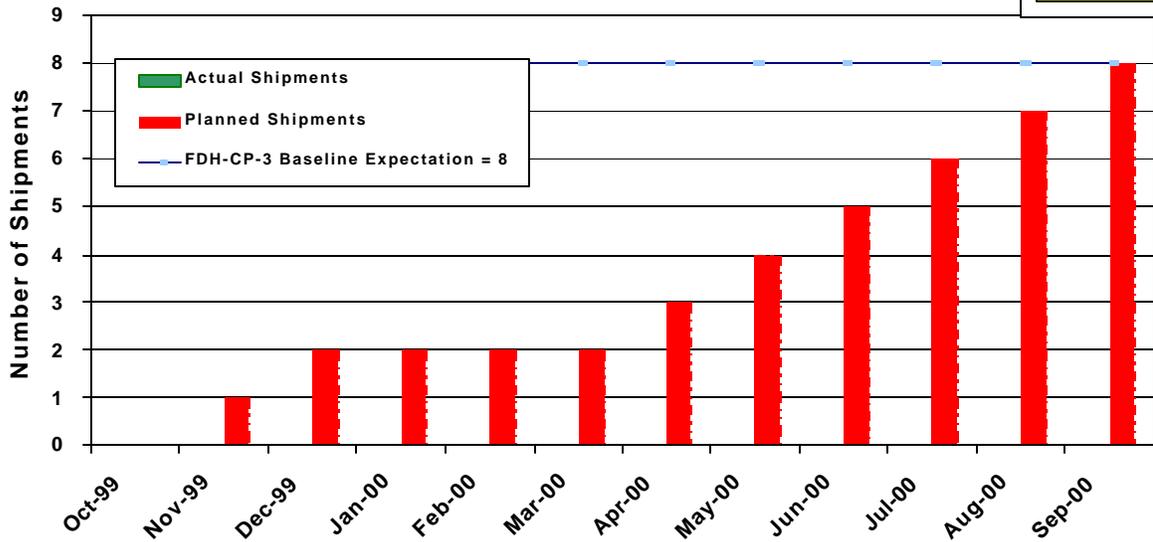
Green



Action Plans: On track to meet the baseline expectation.

TRU SHIPMENTS

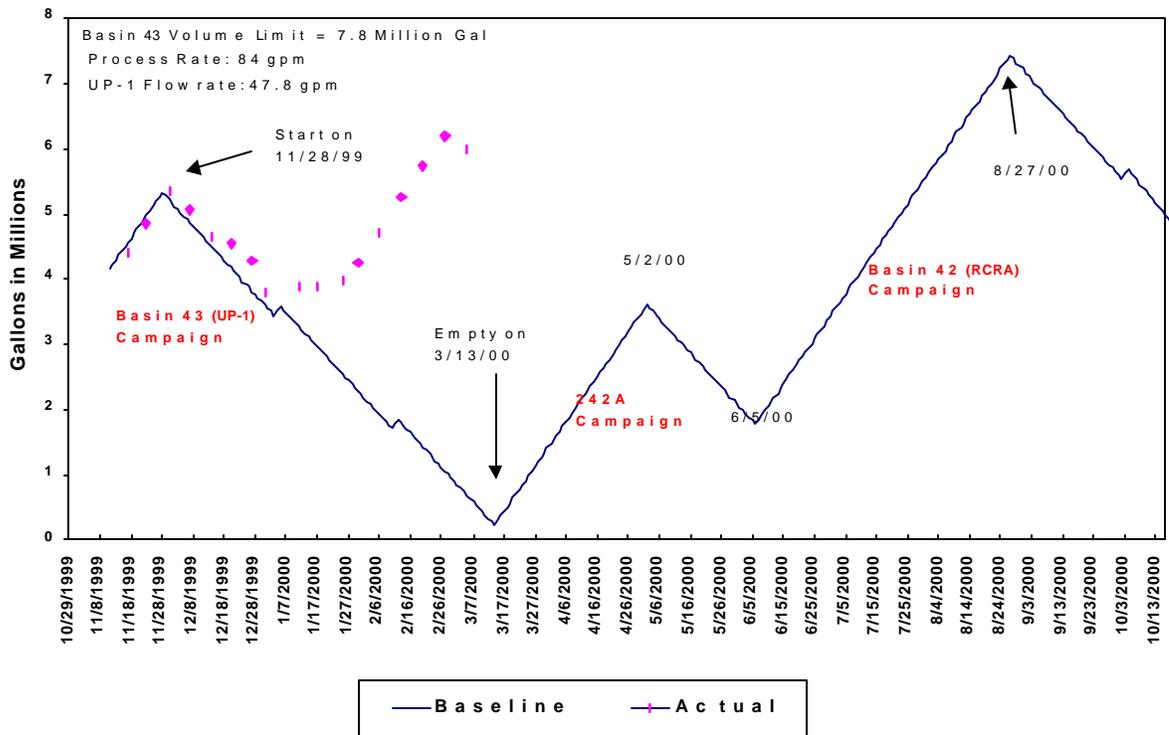
Yellow



Action Plans: Change required based on additional CAO WIPP Certification requirements. Initial shipment delayed until spring 2000.

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LIQUID WASTE PROCESSING



Action Plans: BHI shut down 200-UP-1 groundwater on 12/27/99 and restarted on 1/26/00. Plant was shut down during January and has restarted to reduce the 200-UP-1 inventory. Production plans will be adjusted when DOE-RL direction is obtained to support incremental 242A Evaporator operations.

KEY INTEGRATION ACTIVITIES

- Preparing T Plant to receive Spent Nuclear Fuel K Basin sludge.
- Issuance of Records of Decision for LLW and MLLW is expected to affect Hanford's role in disposing of waste from other sites. Hanford's role as one of the identified LLW/MLLW disposal sites for the Complex is yet to be fully defined. Working with DOE-RL, DOE-HQ and other Sites to develop and define role.
- Support continued UP-1 Groundwater treatment and increased RPP evaporator feed volumes.
- Support River Corridor Project in cleanup and removal of waste from 324 and 327 buildings.
- Support DOE-RL declaration of Readiness-to-Proceed in support of the Office of River Protection (ORP) Privatization contract.
- Working with PNNL, EM 50 and Mixed Waste Focus Area (MWFA) to obtain funding in support of the M-91 Facility Project.
- Participated in the DOE Order 435.1 workshop with other DOE and Contractor site representatives to share issues, lessons learned, and paths forward in complying with the Order.
- Continue to work with DOE- RL, -Oakland, and -Ohio to support resolution of TRU small quantity site disposition issues.