



Section B:1

Waste Management

PROJECT MANAGERS

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SUMMARY



“Work delays of up to 1.5 weeks to various waste management operations in the 200W Area resulted from the fire. However, fiscal year end commitments will not be impacted. Potential financial impacts of \$400K have been identified.”

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 now included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope has remained in Waste Management. 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.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of June 30, 2000. Other data is updated as noted.

Fiscal-year-to-date milestone performance (EA, DOE-HQ and RL) shows that two milestones (100 percent) were completed ahead of schedule. Overall Project performance continues to be excellent. Cost and schedule goals are on track to be met.

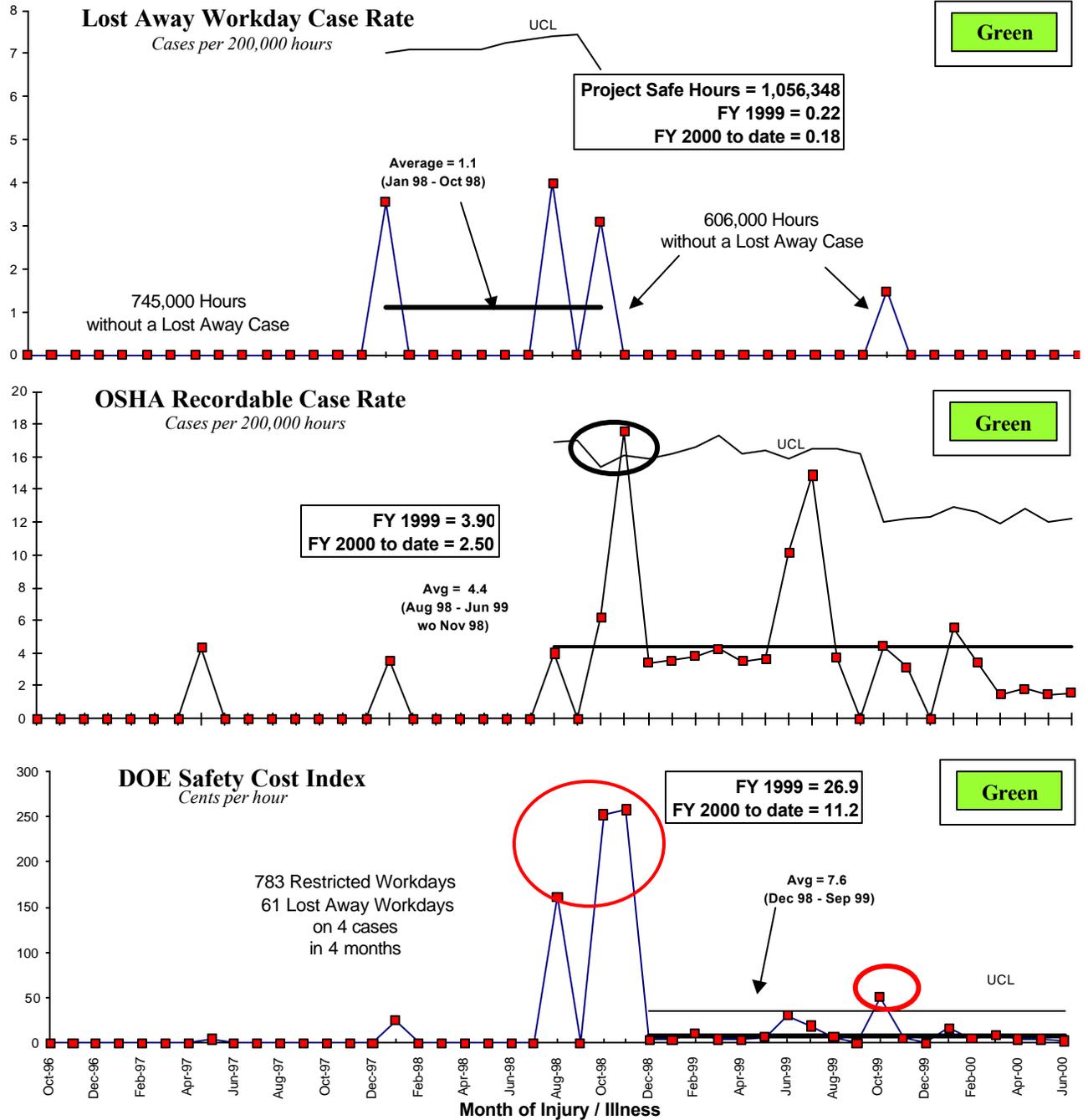
ACCOMPLISHMENTS

- The first shipment of Hanford transuranic waste left for the Waste Isolation Pilot Plant (WIPP) on July 12, 2000. The shipment was received at WIPP on July 14, 2000 and unloaded with no issues reported.

- The Remote-Handled TRU Project Management Plan (PMP) was completed on June 29, 2000, satisfying TPA milestone M-91-03, which was due June 30, 2000. Shipped 870 containers totaling 1,070 cubic meters of mixed low-level waste to Allied Technology Group, Inc. (ATG), which represents 92 percent of the FY 2000 target. This waste volume represents an effective Central Waste Complex (CWC) storage volume reduction of 1,750 cubic meters. ATG has treated 569 cubic meters of waste (FYTD), which represents 49 percent of the FY 2000 treatment target. Hanford has accepted back for disposal, 114 containers totaling 300 cubic meters, which represents 43.2 percent of the FY 2000 disposal target. (Data as of July 19, 2000.)
- Waste Receiving and Processing (WRAP) production this reporting period:
 - Nondestructive examination of 101 drums
 - Nondestructive assays of 128 drums
- On June 23, 2000 during relocation and assay of uncovered suspect TRU waste drums in 218-W-4C Burial Ground Trench 29, it was discovered that more unvented drums exist than had been estimated in the project safety basis. An Unreviewed Safety Question (USQ) was declared and Trench 29 was placed in “Standby” mode. Suspect TRU waste drum relocation and assay in Trench 29 was stopped. Following an analysis of the safety basis relative to the actual number of unvented suspect TRU drums encountered, a Justification for Continued Operation (JCO) in Trench 29 was submitted to DOE-RL on July 18, 2000. DOE-RL approved the JCO and authorized resumption of suspect TRU waste drum relocation and assay operations in Trench 29 on July 20, 2000. Trench 29 was returned to “Operation” mode on July 24, 2000. Since the last reporting period, processed 3.5 million gallons of wastewater through the 200 Effluent Treatment Facility (through July 20, 2000) supporting River Protection Project (RPP), Environmental Restoration Contract (ERC) 200-UP-1 Groundwater, N-Basin Water, Mixed Waste Trench Leachate, and Environmental Restoration Disposal Facility (ERDF) Leachate.
- The three volume “Interim Report for Hanford Land Disposal Restrictions for Mixed Wastes” was delivered to DOE-RL on July 18, 2000. The report consists of an Implementation Plan, a Progress Report, and the M-26-01J Deliverable. The report is now going through the DOE-RL concurrence process so that it can be issued to Ecology by July 31. Per the Tri-Party Agreement primary document process, Ecology will then have 45 days to review the document and submit comments.
- The Waste Encapsulation and Storage Facility (WESF) RCRA Part A Permit was certified by Keith Klein on July 13, 2000 and delivered to Ecology on the same day. This met Ecology’s corrective action due date specified in the June 12, 2000 Notice of Correction letter.
- T Plant and Burial Ground draft Part B submitted to Ecology on July 7, 2000.

Safety

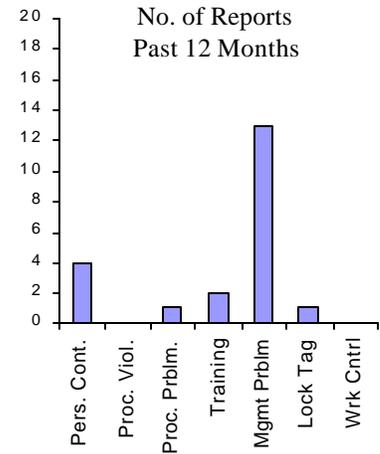
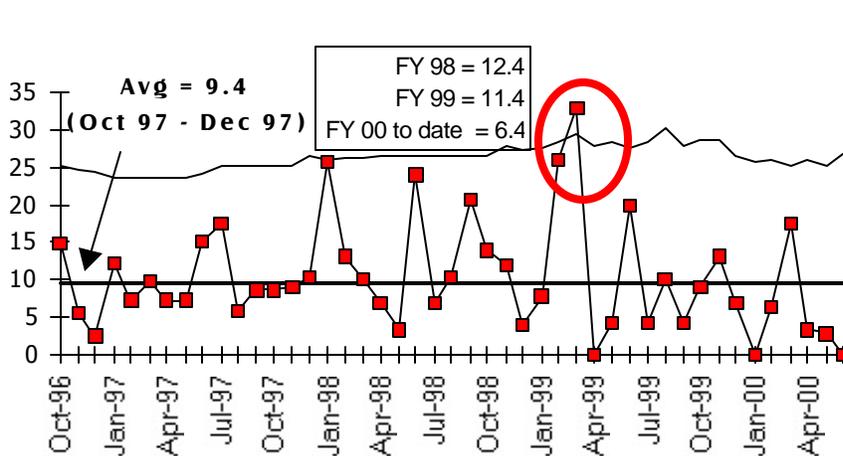
The project's safety rates are stable. The WMP Safety Council has taken actions to work with the various project safety councils and management to review past events and identify corrective actions.



CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS Events per 200,000 hours

Green



ISMS STATUS

Green

Completed Activities:

- Supported successful completion of the Phase II verification of ISMS.

Planned Actions:

- Generate and implement out-year plan to sustain and maintain ISMS effort, including addressing the ten Opportunities for Improvement identified in the Phase II Verification effort.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

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CAO Project/Treatment Facility: Radiological control techniques were implemented at the Treatment Facility to increase the efficiency of headspace gas sampling operation. Based on the radiological data from sampling over 200 headspace gas samples (no detectable contamination collected on the in-line sample filter), the requirement to use a glove bag over every drum during sampling was eliminated allowing the Treatment Facility Personnel to greatly increase the number of samples collected in a given time.

Liquid Waste Processing Facility (LWPF) support to ORP: The 200 LWPF prepared a strategy for modifying their permits to begin accepting liquid effluents from the RPP vitrification facility. The strategy identifies the affected permits, the required actions by the PHMC and RPP, and includes a resource-loaded schedule. The strategy provides the basis for our planning input to RPP for out-year

support. The strategy was reviewed by Environmental Services who provided valuable input.

Green

Opportunities for Improvement

Waste and Materials Disposition [except Plutonium (Pu)] Team: RL is assessing the framework under which it can maximize its cleanup while working to incorporate a “realistic” funding profile over the next ten to fifteen years. Consistent with the RL outcomes, the priority is on achieving its River Corridor Outcome by 2010 or shortly thereafter. That necessitates a probable re-sequencing of the current baseline activities in the 200 Areas. The Waste Management Project is leading the Waste and Materials (except Pu) Disposition Team to identify opportunities for improvement.

UPCOMING ACTIVITIES

WIPP Certification and Waste Shipments — Ramp-up shipment of Hanford TRU waste to the Waste Isolation Pilot Plant (WIPP). Establish recovery path of the NDE/VE data generated prior to the WIPP Permit.

Remote-Handled TRU Project Management Plan (PMP) — Support DOE-RL during the 45-day regulator comment period.

MLLW Treatment — Treat 1,160 cubic meters (includes 100 cubic meters stretch) of Mixed Low-Level Waste (MLLW) at Allied Technology Group (ATG) by August 2000; dispose of the Land Disposal Restriction compliant waste by September 2000.

Suspect TRU Waste Retrieval — Retrieve 425 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 Documents for removal of Shippingport Fuel from T Plant in FY 2000.

Land Disposal Restriction Report — Support DOE-RL during the 45-day regulator comment period.

616 Facility Closure — Work to close 616 facility to start in August.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Waste Management	\$77.2	\$77.0	\$0.2

The \$0.2 million (0 percent) favorable 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	\$77.2	\$79.1	- \$1.9

The \$1.9 million (2 percent) unfavorable schedule variance is within established threshold. 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)

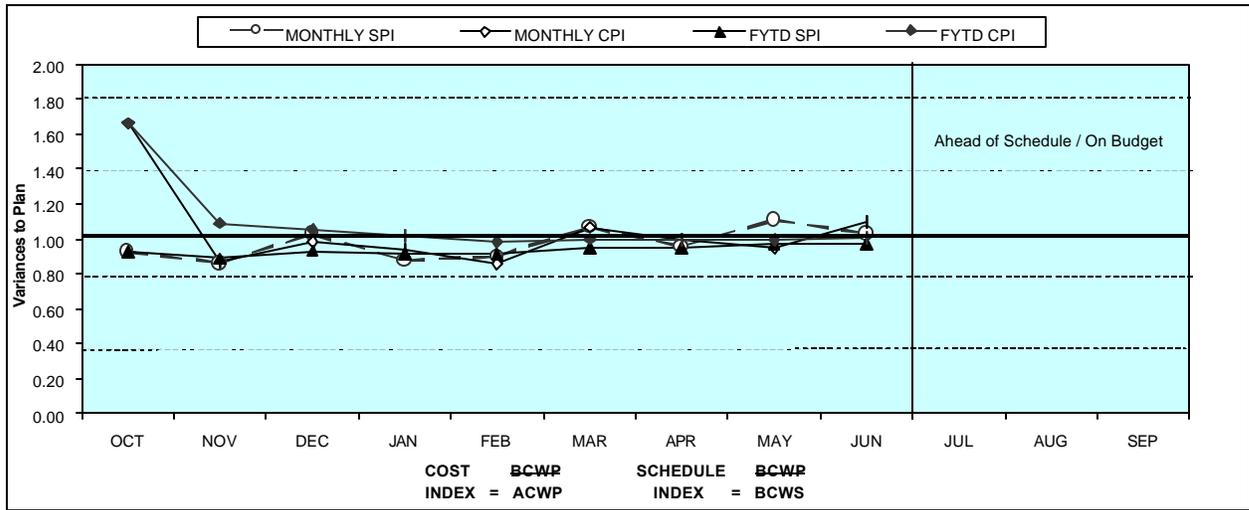
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By PBS		FYTD								PEM	EAC
		BCWS	BCWP	ACWP	SV	%	CV	%			
PBS WM03 WBS 1.2.1	Solid Waste Storage & Disposal	\$ 25,350	\$ 25,241	\$ 24,815	\$ (109)	0%	\$ 426	2%	\$ 35,415	\$ 34,893	
PBS WM04 WBS 1.2.2	Solid Waste Treatment	\$ 24,634	\$ 23,961	\$ 24,477	\$ (672)	-3%	\$ (515)	-2%	\$ 36,073	\$ 34,595	
PBS WM05* WBS 1.2.3	Liquid Effluents - 200/300 Area	\$ 19,890	\$ 19,089	\$ 18,521	\$ (801)	-4%	\$ 567	3%	\$ 28,042	\$ 26,099	
PBS TP02 WBS 1.4.2	WESF	\$ 9,203	\$ 8,923	\$ 9,173	\$ (280)	-3%	\$ (250)	-3%	\$ 12,652	\$ 12,714	
Total		\$ 79,076	\$ 77,214	\$ 76,985	\$ (1,862)	-2%	\$ 229	0%	\$ 112,182	\$ 108,301	

- 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)

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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	1.07	0.96	1.11	1.03			
MONTHLY CPI	1.66	0.87	0.98	0.94	0.86	1.07	0.99	0.94	1.10			
FYTD SPI	0.93	0.89	0.93	0.92	0.91	0.95	0.95	0.97	0.98			
FYTD CPI	1.66	1.09	1.05	1.02	0.98	1.00	1.00	0.99	1.00			
MONTHLY BCWS	\$ 6,641	\$ 9,616	\$ 7,269	\$ 8,331	\$ 8,862	\$ 10,686	\$ 8,906	\$ 9,121	\$ 9,646	\$ 9,290	\$ 11,998	\$ 11,818
MONTHLY BCWP	\$ 6,163	\$ 8,277	\$ 7,499	\$ 7,291	\$ 7,973	\$ 11,406	\$ 8,514	\$ 10,136	\$ 9,955			
MONTHLY ACWP	\$ 3,703	\$ 9,520	\$ 7,619	\$ 7,789	\$ 9,270	\$ 10,685	\$ 8,580	\$ 10,729	\$ 9,091			
FYTD BCWS	\$ 6,641	\$ 16,257	\$ 23,526	\$ 31,857	\$ 40,719	\$ 51,404	\$ 60,310	\$ 69,431	\$ 79,076	\$ 88,366	\$ 100,364	\$ 112,182
FYTD BCWP	\$ 6,163	\$ 14,440	\$ 21,939	\$ 29,230	\$ 37,203	\$ 48,609	\$ 57,123	\$ 67,259	\$ 77,214			
FYTD ACWP	\$ 3,703	\$ 13,223	\$ 20,842	\$ 28,631	\$ 37,901	\$ 48,586	\$ 57,166	\$ 67,895	\$ 76,985			

COST VARIANCE ANALYSIS: (\$0.2M)

WBS/PBS

Title

1.2.1/WM03

Solid Waste Storage & Disposal

Description/Cause: The favorable cost variance of \$0.4M (2 percent) is within the established threshold.

Impact: No impact.

Corrective Action: No action required.

1.2.2/WM04

Solid Waste Treatment

Description/Cause: The unfavorable cost variance of \$0.5M (2 percent) is within the established threshold.

Impact: No impact.

Corrective Action: No action required.

FUNDS MANAGEMENT
FUNDS VS SPENDING FORECAST (\$000)
FY TO DATE THROUGH JUNE 2000
(FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance
The Plateau									
1.2 Waste Management TP02,WM03-05				\$ 103,378	\$ 100,378	\$ 3,000			
Line Item									
Total Waste Mgt. Operating				\$ 103,378	\$ 100,378	\$ 3,000			
Total Waste Mgt. Line Item									

* Control Point

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. These Records of Decision (ROD) for LLW and MLLW will affect Hanford's disposal role for the Complex and the ROD outcomes may have a significant impact on disposal volumes and rates at Hanford. DOE-HQ and WDOE negotiations continue; impacts depend upon results of these negotiations.

Hanford's TRU Project continues working with the Carlsbad Area Office (CAO), the Environmental Protection Agency (EPA) and the New Mexico Environment Department (NMED) to determine the appropriate path forward for recovery of the NDE/VE data generated prior to the WIPP Permit. CAO commitments to provide compliance matrices necessary to initiate the Hanford data evaluations were not met. The lack of consistency from CAO and failure to provide needed information has delayed initiation of the data recovery. When CAO concurred with the proposed Hanford path forward for data recovery, NDE data recovery efforts were initiated immediately. The method requires review of the original videotape and data by a qualified operator, completion of new batch data reports in accordance with current procedures, and validation of the batch data reports in accordance with current CAO Weekly Report for Week Ending July 14, 2000 procedures. Schedules for bringing all the "old" data forward are being developed based on the accepted method.

Substantial areas of disagreement still exist between DOE-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. DOE-RL is appealing certain aspects of the Ecology requirements, with formalized hearings scheduled for early in calendar year 2001.

Ecology continues to delay issuance of Modification E of the Hanford Facility RCRA Permit. Ecology has stated that the permit will not be issued in July and probably not in August. Modification E will incorporate the CWC and the 616 NRDWSF Closure Plan into the RCRA Permit.

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-2000-006	3/21/00	TRU Project Rebaselining	\$ -			06/08/00	06/08/00		At DOE-RL
ADVANCE WORK AUTHORIZATIONS									

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	2	0	0	0	0	0	0	2
DOE-HQ	0	0	0	0	0	0	0	0
RI	0	0	0	0	0	8	0	8
Total Project	2	0	0	0	0	8	0	10

Green

Tri-Party Agreement / EA Milestones

Number	Milestone Title	Status
M-91-03 (WMH-00-001)	Issue TRU/TRUM Waste PMP	due 06/30/00 — Completed 6/29/2000 (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)		

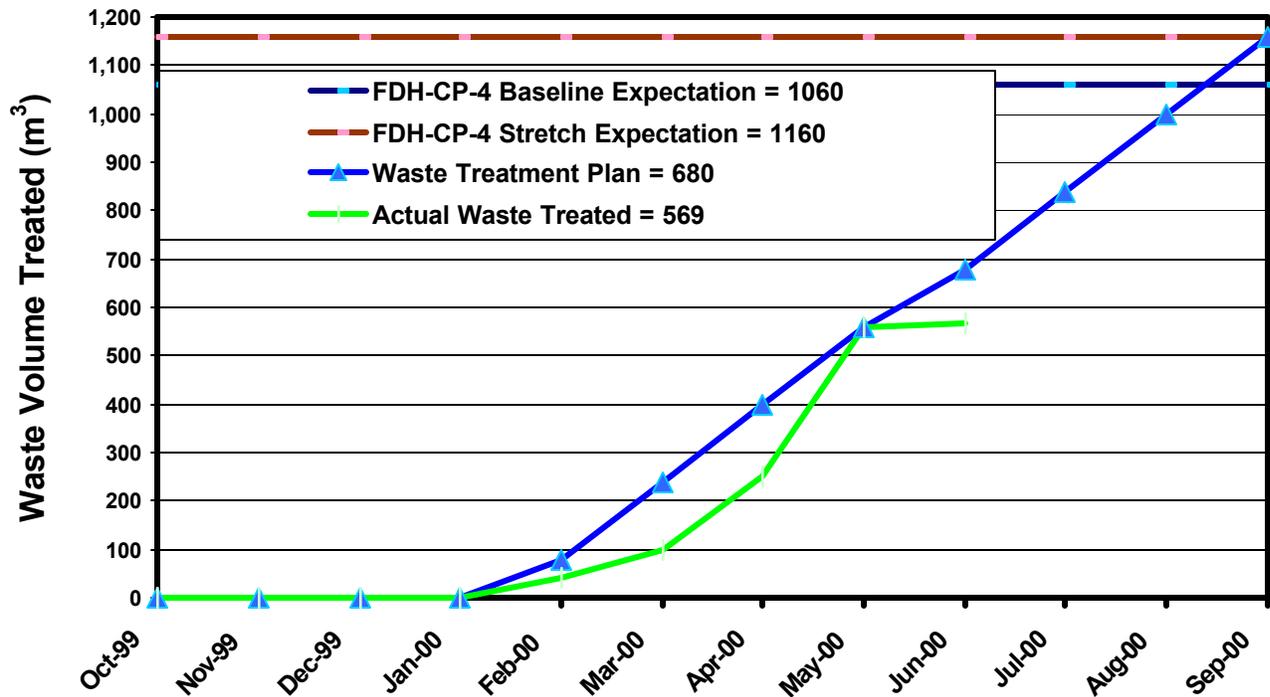
Cause: This milestone is not complete due to not being supported at the current funding level.

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

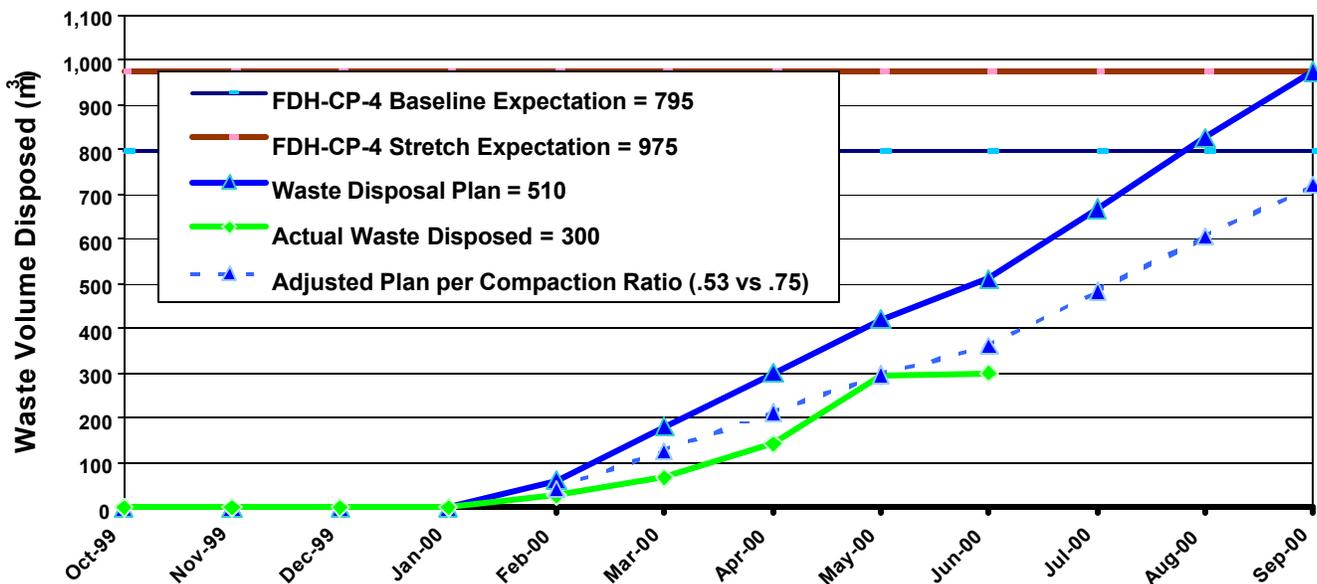
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Action Plans: Minimum requirement of 560m³ treated completed in June 2000. Behind schedule to treat the remaining 500m³ due to paperwork issues; recovery expected in August 2000.

MLLW DISPOSAL

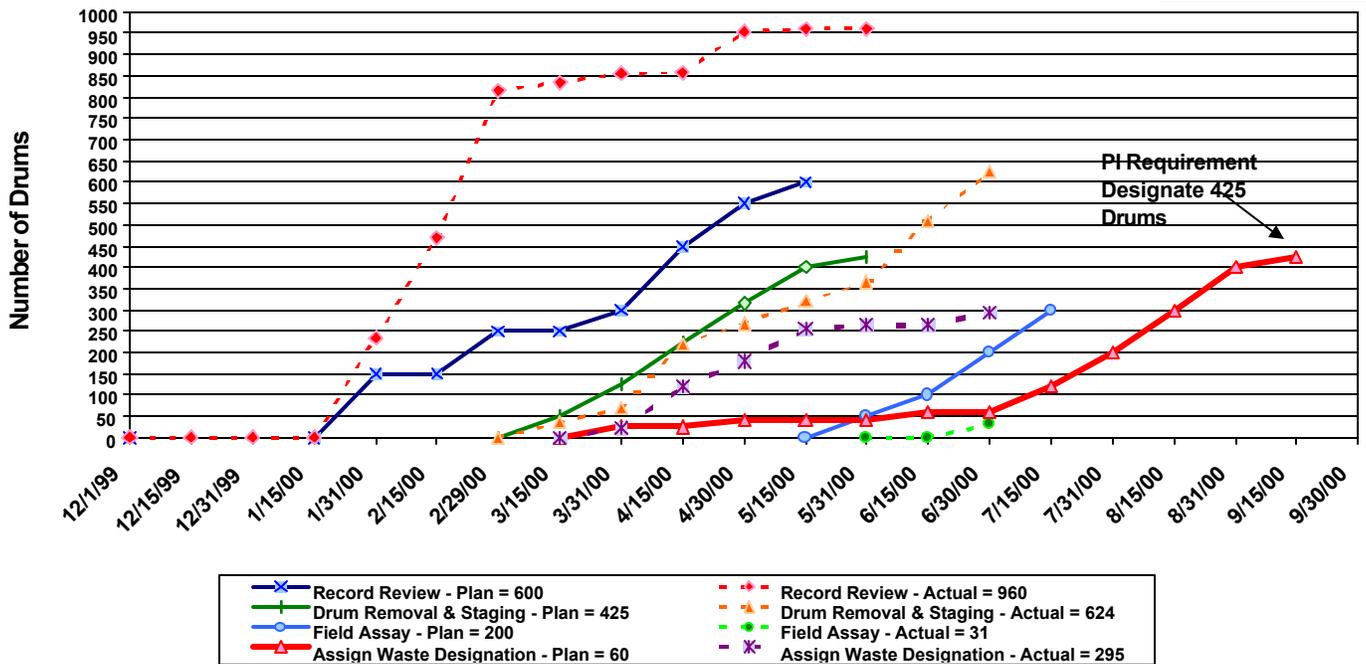
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Action Plans: Behind due to treatment slippage. Recovery expected in August 2000.

TRU RETRIEVAL

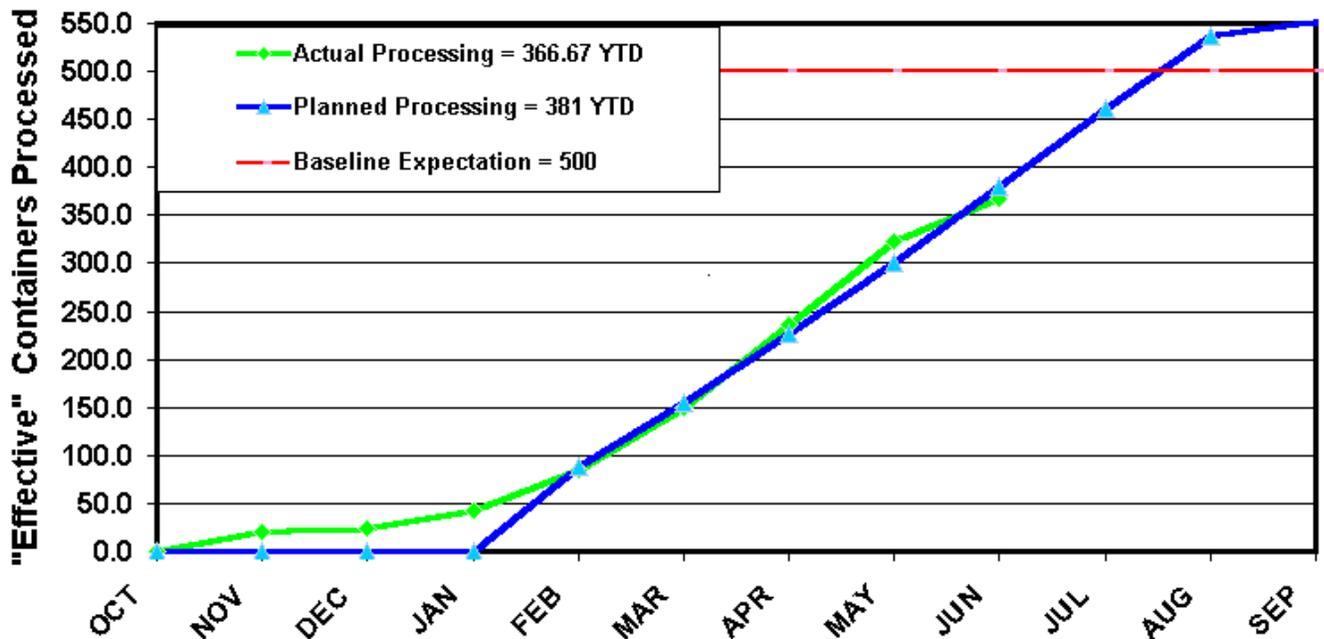
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Action Plans: On track to meet the new stretch goal of 425 drums.

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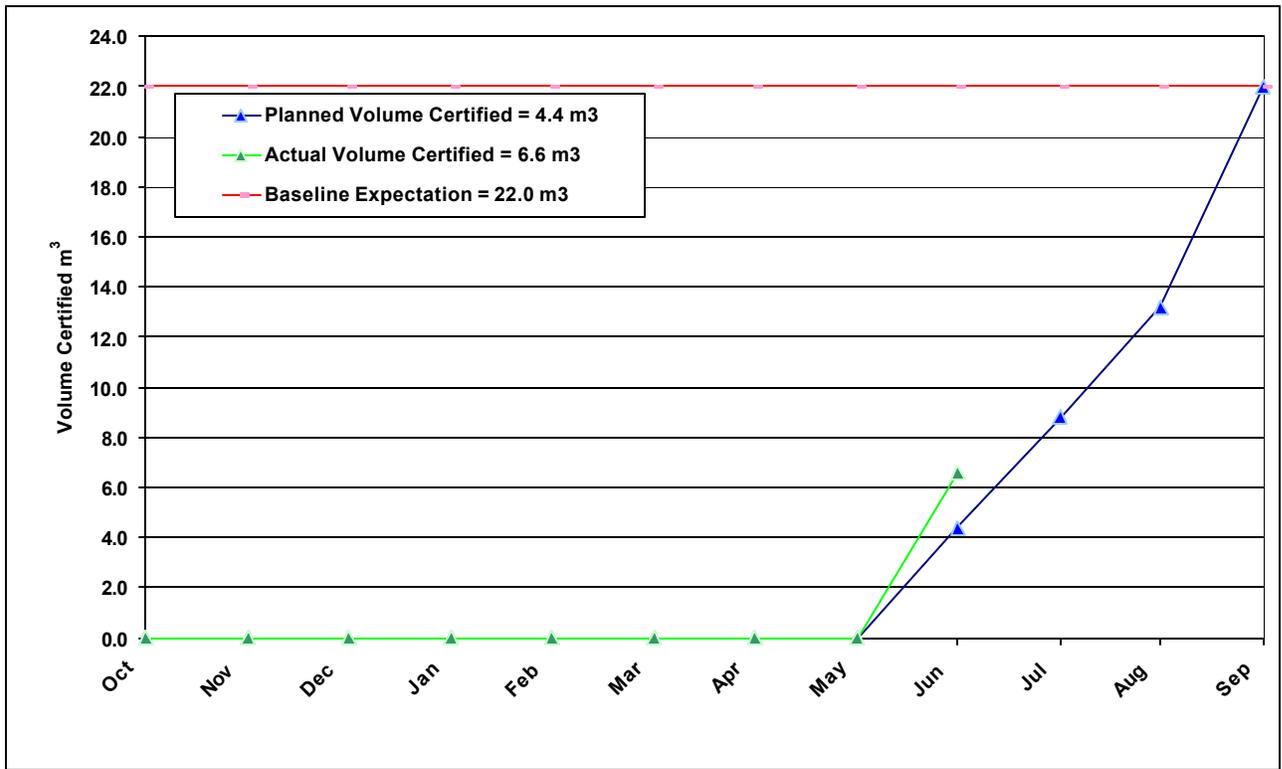
TRU CONTAINER PROCESSING



Action Plans: On track.

TRU CERTIFICATION FOR SHIPPING

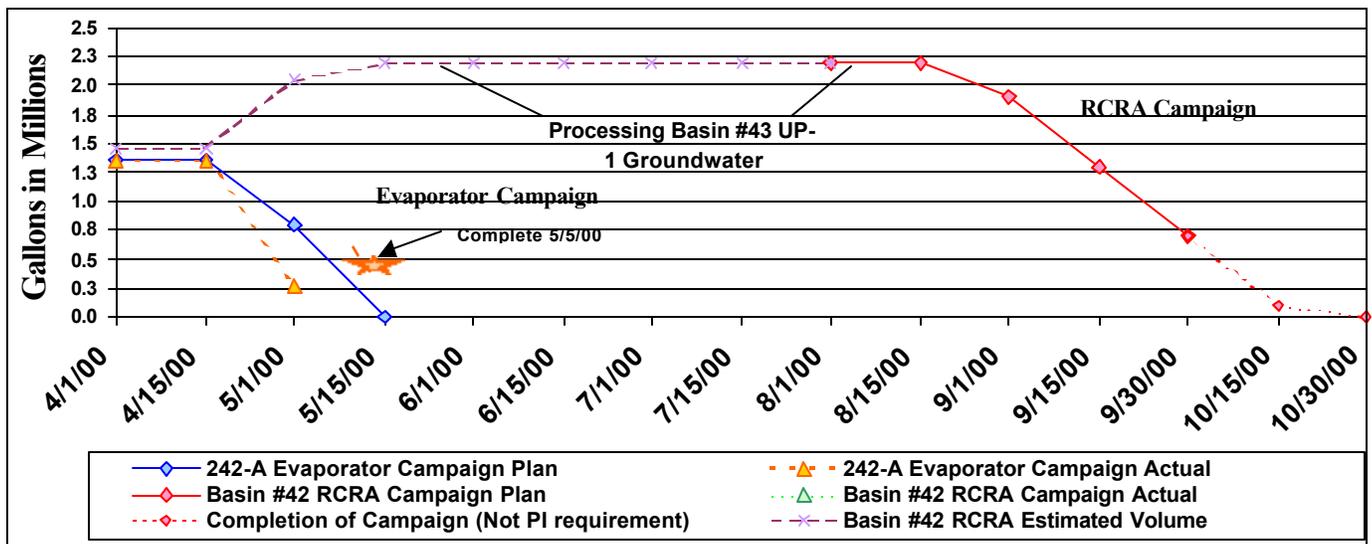
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Action Plans: PI renegotiation in process.

LIQUID WASTE PROCESSING

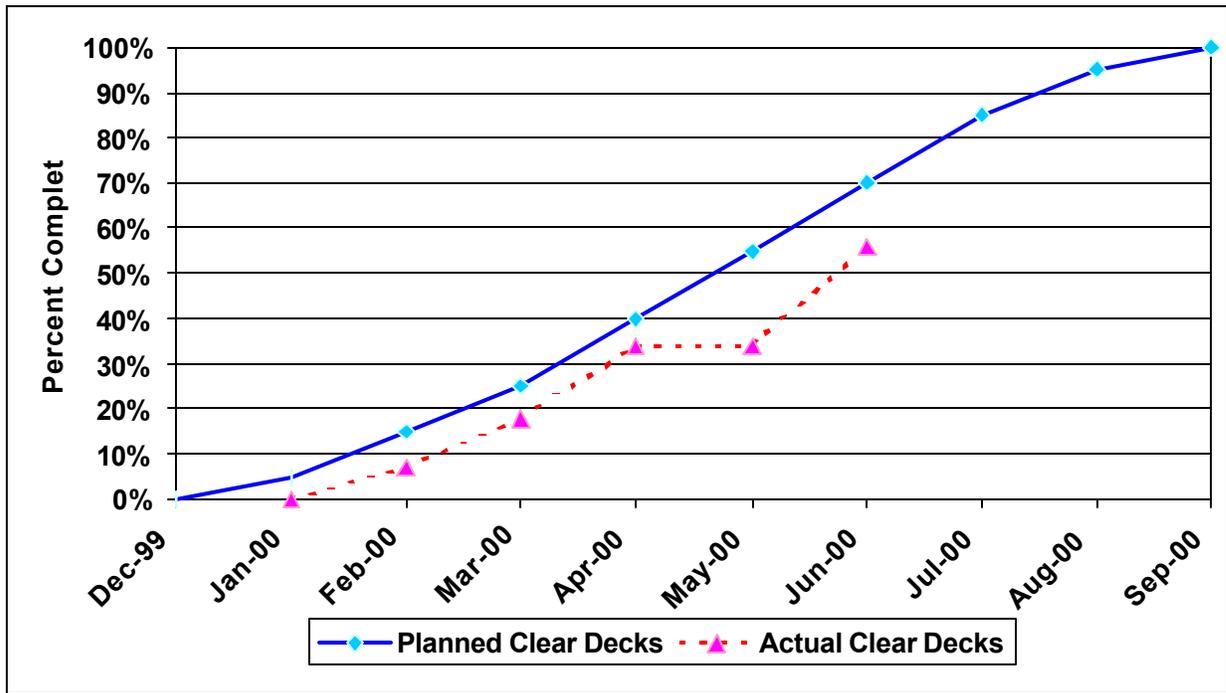
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Action Plans: On track. The RCRA campaign scheduled to begin in mid-August 2000.

T Plant Deck Clearing (RC-4-1-1)

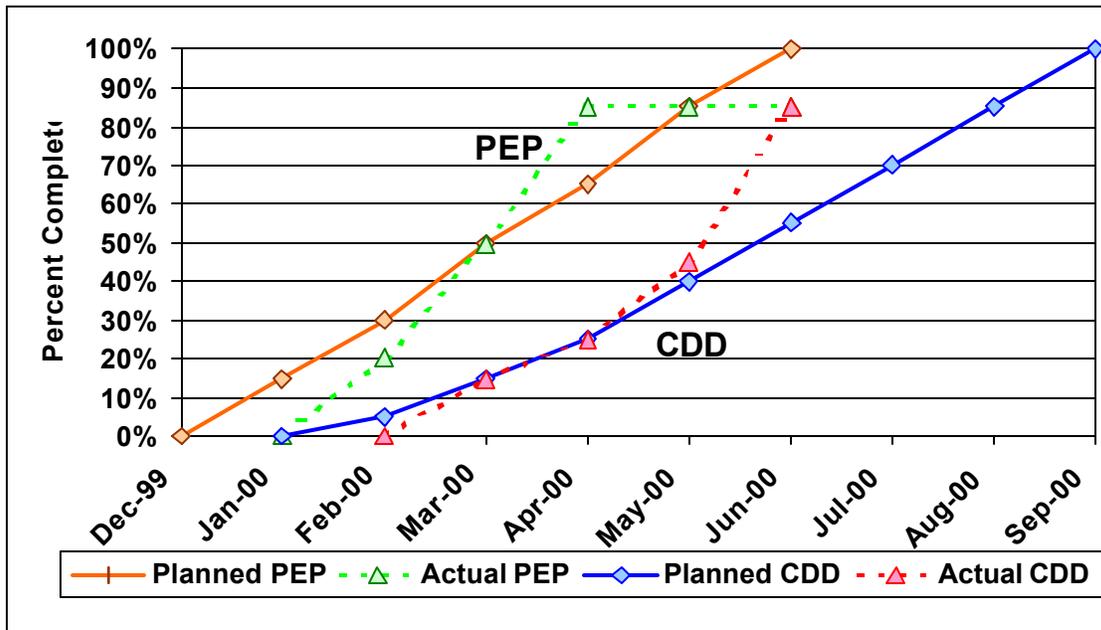
Green



Action Plans: Ramping up for completion in September 2000.

Green

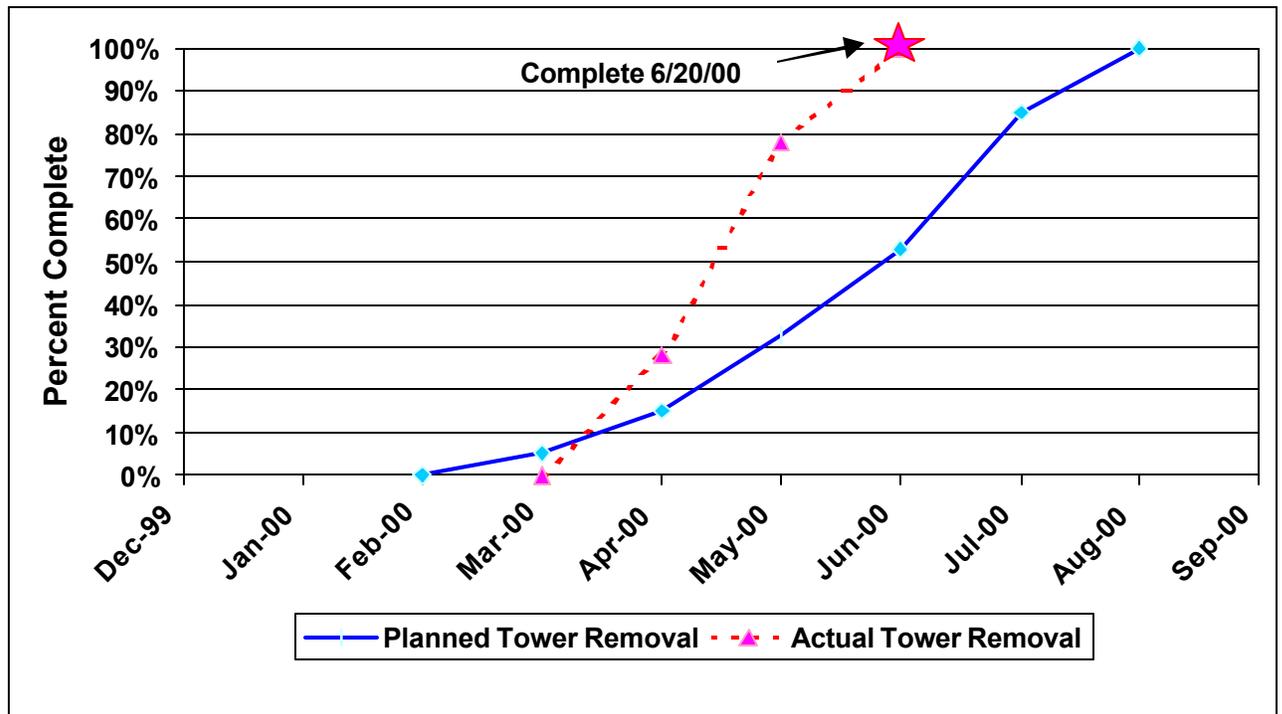
T PLANT PEP AND CDD



Action Plans: On track for completion in fiscal year 2000. The Project Execution Plan (PEP) and the Conceptual Design Document (CDD) are both 85 percent complete. PEP completion is tied to required CDD inputs; both will be completed by September 30, 2000.

T Plant Tower Removal (RC-4-1-2)

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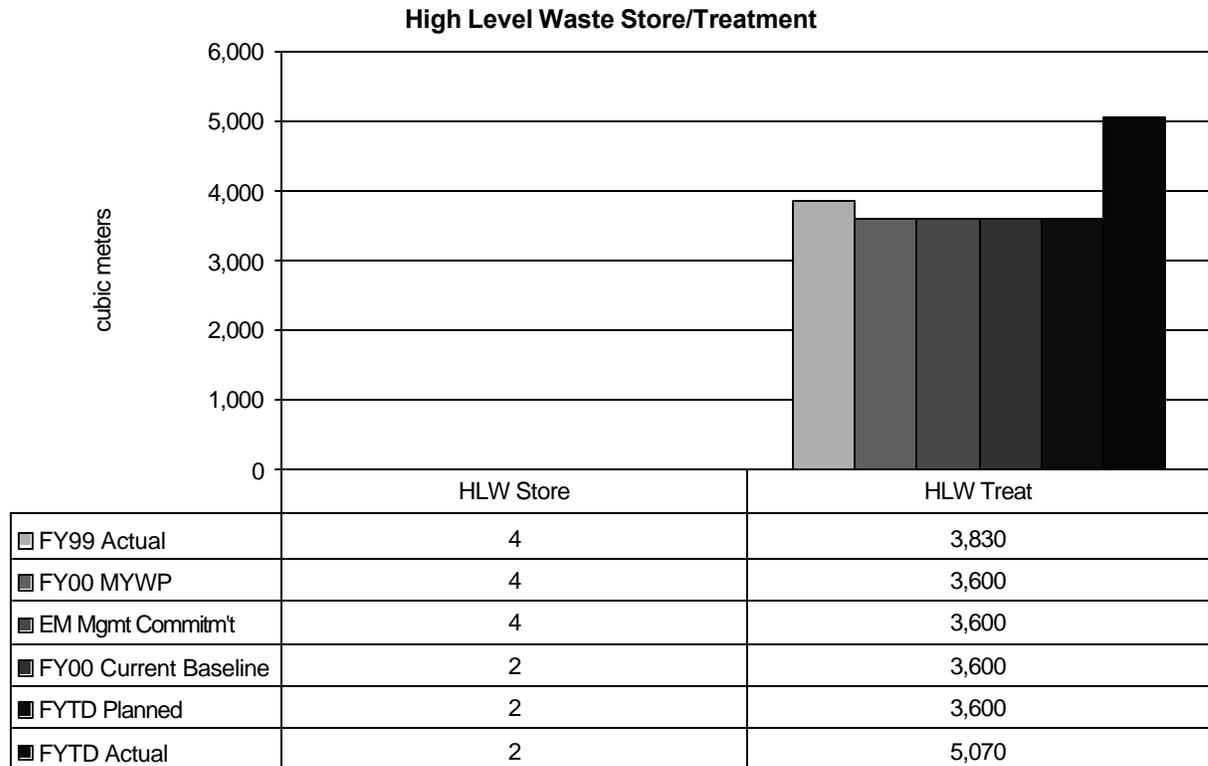


Action Plans: Complete. Two towers removed and disposed of in the low level burial grounds (LLBG).

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. 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.
- Support continued UP-1 Groundwater treatment.
- Support River Corridor Project in cleanup and removal of waste from 324 and 327 buildings.
- 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.

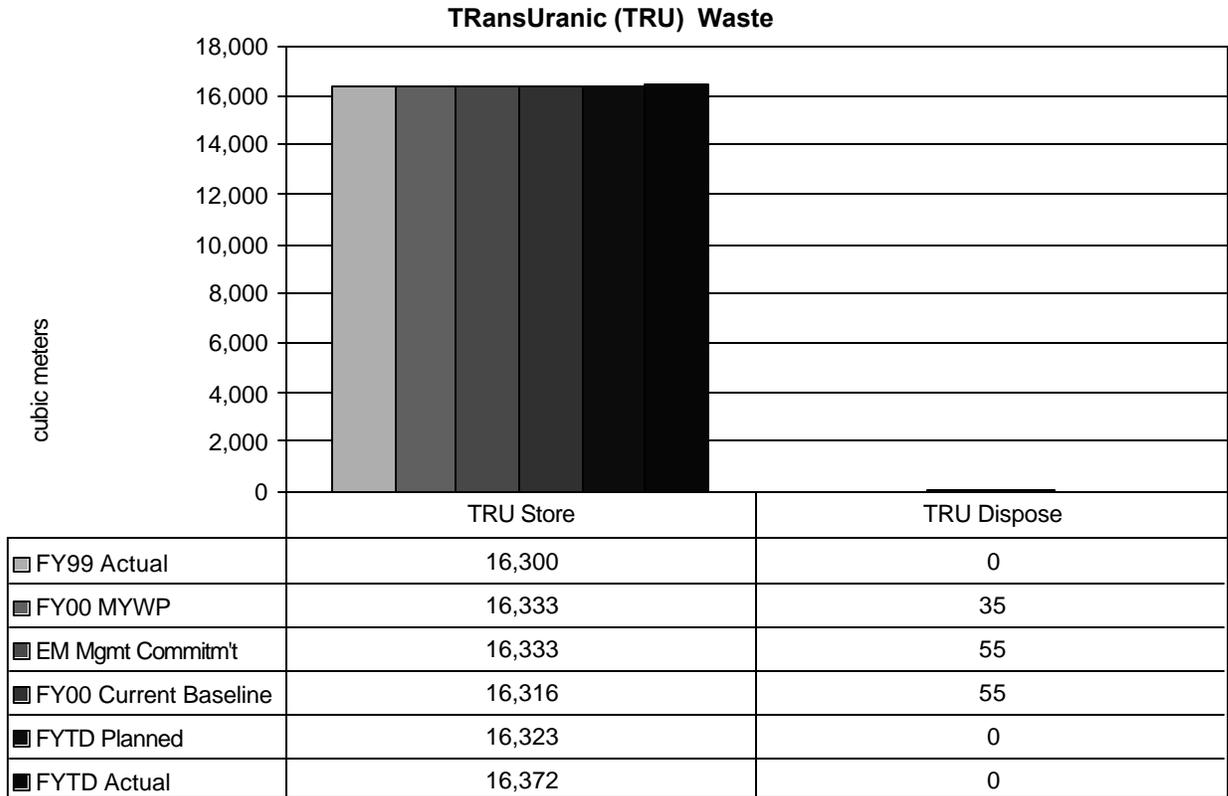
HIGH LEVEL WASTE (HLW): STORAGE AND TREATMENT



Storage: The HLW inventory of the Cesium (Cs) and Strontium 90 (Sr) stored in the Waste Encapsulation and Storage Facility (WESF) pool cells has been adjusted to provide a consistent reporting basis. The previously reported four cubic meters was based on the capsule dimensions. However, the reported HLW inventory should have included the volume that is HLW (i.e., the Cs and Sr salt) which is two cubic meters. The HLW Cs and Sr salt volume will be the basis for future reporting.

Treatment: The FY00 evaporator campaign for treatment of high-level tank waste was completed during the third quarter, treating more than 34 percent more than planned. Additional volume treated through the evaporator was necessary to support RPP in achieving a Performance Incentive for waste volume reduction in the Tank Farms underground storage tanks.

TRANSURANIC (TRU) WASTE: STORAGE, TREATMENT AND DISPOSAL



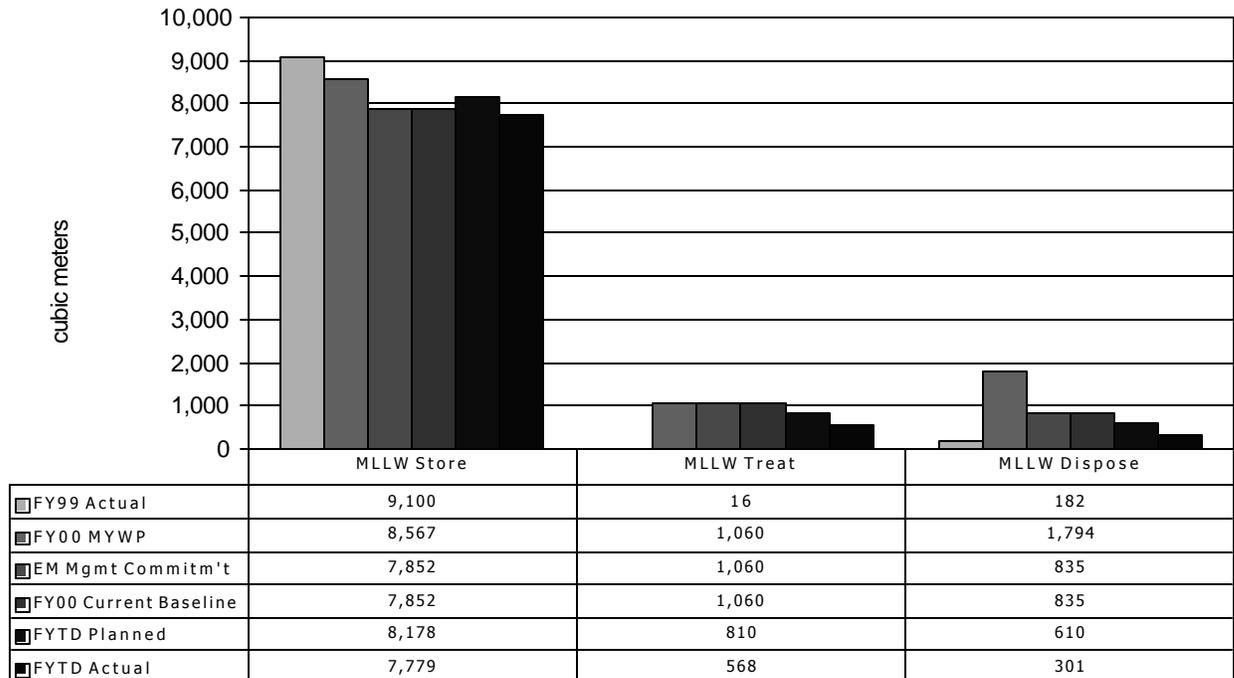
Storage: Storage continues to be provided for existing and newly generated TRU waste. The current volume of TRU in storage is within 10 percent of the planned amount.

Treatment: Based on DOE/RL interpretation, TRU processing at WRAP does not meet the revised TRU treatment definition. Therefore, TRU treatment volumes previously identified in the FY00 MYWP have been set to zero.

Disposal: None scheduled this period.

MIXED LOW LEVEL WASTE: STORAGE, TREATMENT, AND DISPOSAL

Mixed Low Level Waste

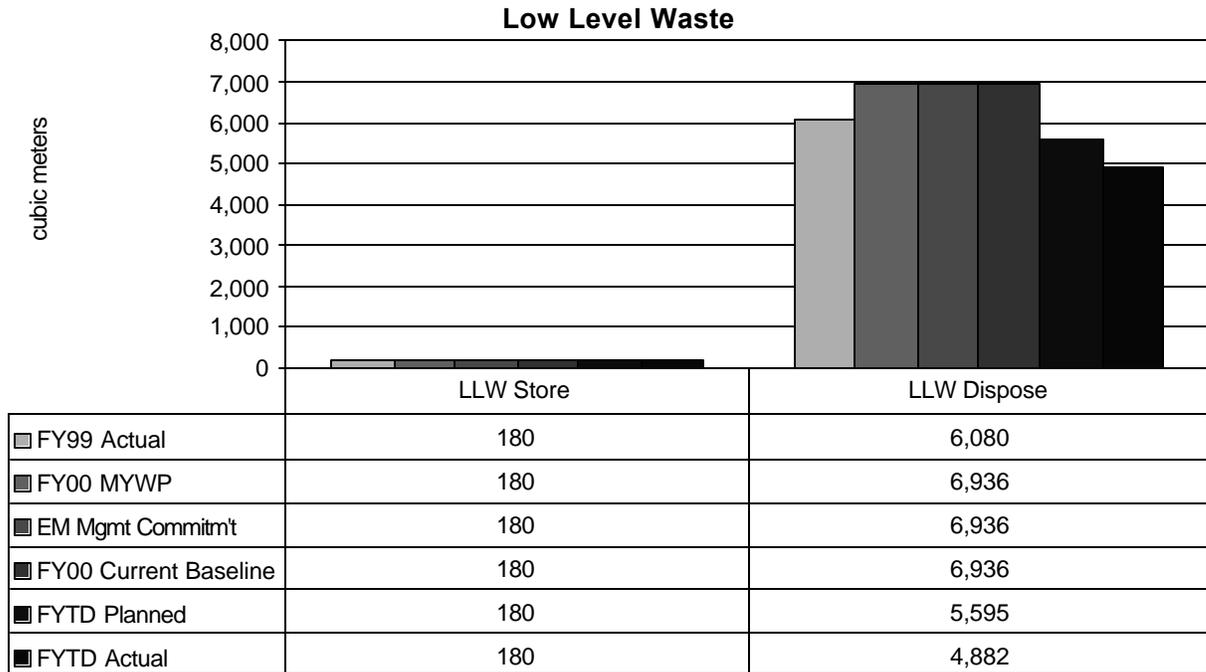


Storage: Storage continues to be provided for existing and newly generated MLLW waste. The current volume of MLLW in storage is within 10 percent of the planned amount.

Treatment: Treated volumes are currently running lower than projected as Allied Technology Group (ATG) received their treatment permit later than originally anticipated causing a domino effect to the treatment volumes. A second impact to the treatment volumes is, at the time of planning a reduction rate of 1:75 was assumed. Currently the actual reduction rate is 1:5. ATG has ramped up and plan to meet the year-end planned amount.

Disposal: Disposed volumes lag as treatment has a direct impact on the disposal volumes. Based on the current volume reduction rate discussed above, the disposed volume for the end of the year will be less than planned.

LOW LEVEL WASTE (LLW): STORAGE, TREATMENT, AND DISPOSAL



Storage: Storage remains unchanged for LLW not suitable for disposal. Contracting for commercial treatment of this waste is planned for FY2007.

Treatment: No treatment of LLW is planned until after FY2006 when a treatment alternative has been selected. All newly generated LLW receipts are prepared and packaged to the waste acceptance criteria for disposal of LLW in the burial grounds and no further treatment is required.

Disposal: Scheduled slipped for several LLW generators therefore actual volume of LLW disposed is below planned. One high volume generator is behind their projected volume due to excavation activities taking longer than anticipated. LLW disposal is expected to be with 10 percent of the planned year end volume as generators make up their schedule slippages.