

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.

Prepared for Carlsbad Area Office Audit of Hanford's TRU Project to meet requirements of the new Part B WIPP Resource Conservation and Recovery Act Permit

- Changed approximately 60 procedures
- Retrained approximately 300 people
- Modified major documents including Quality Assurance Project Plan (QAPjP) and Certification Plan.

Shipped 42 cubic meters of mixed low-level waste (MLLW) to ATG Inc. and initiated treatment on December 22, 1999. This supports the base commitment of 1,060 cubic meters in FY 2000.

Milestone performance (EA, DOE-HQ and RL) shows no milestones are due this reporting period.

ACCOMPLISHMENTS

- Disposed 36,400 ft³ (FYTD) of Low Level Waste (LLW) in the burial grounds, as planned.
- Processed 1.9 million gallons (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.
- Completed nondestructive examination (NDE) on 118 drums, radiography on 2 boxes, non-destructive assays of 27 drums, processing of 3 drums through the repackaging/compaction glovebox, and visual examinations of 24 transuranic drums at the Waste Receiving and Processing (WRAP) facility, as planned.
- Shipped over 1,500 cubic feet (FYTD) of mixed low-level waste to ATG for non-thermal treatment. ATG began MLLW treatment on December 22, 1999.
- Surpassed Secretary of Energy CY 1999 Pollution Prevention Goals:

	<u>Percent reduced</u>	<u>Reduction Goal</u>
Low-level waste	86	50
Mixed low-level waste	76	50
Hazardous Waste	79	50
Toxic Chemical Release	100	50
Sanitary Waste	89	33

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Waste Management	\$21.9	\$20.8	+ \$1.1

The \$1.1 million (five percent) favorable cost variance is within 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	\$21.9	\$23.5	- \$1.6

The \$1.6 million (6.4 percent) unfavorable schedule variance is within the established threshold. Further information at the PBS level can be found in the following Cost Variance Analysis details.

ISSUES

Changing WIPP Certification requirements caused certification and initial shipment to slip until April 2000.

Strategy/Status: Continue negotiation between DOE -RL Waste Management Division, Waste Management Project and Carlsbad Area Office. An audit is scheduled at Hanford for the week of January 24, 2000. (**Note: Completed in January**). The first shipment is scheduled for no earlier than April 2000 following the expected approval of the Hanford TRU Certification Program.

The Waste Management Programmatic Environmental Impact Statement (PEIS) is expected to be issued in the near future. 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.

Strategy/Status: Identification of DOE's notice of preference for the Waste Management Program LLW and MLLW disposal sites was published in the Federal Register on December 10, 1999. DOE will issue a ROD for LLW and MLLW treatment and disposal no sooner than 30 days after publication of the Notice.

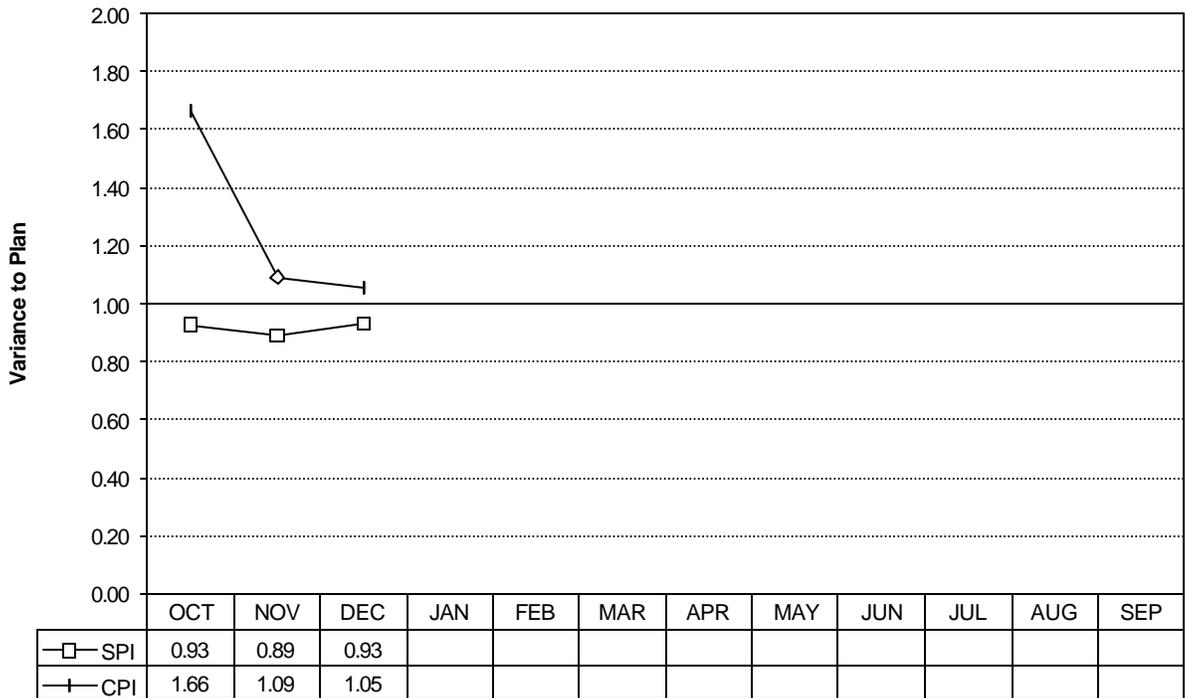
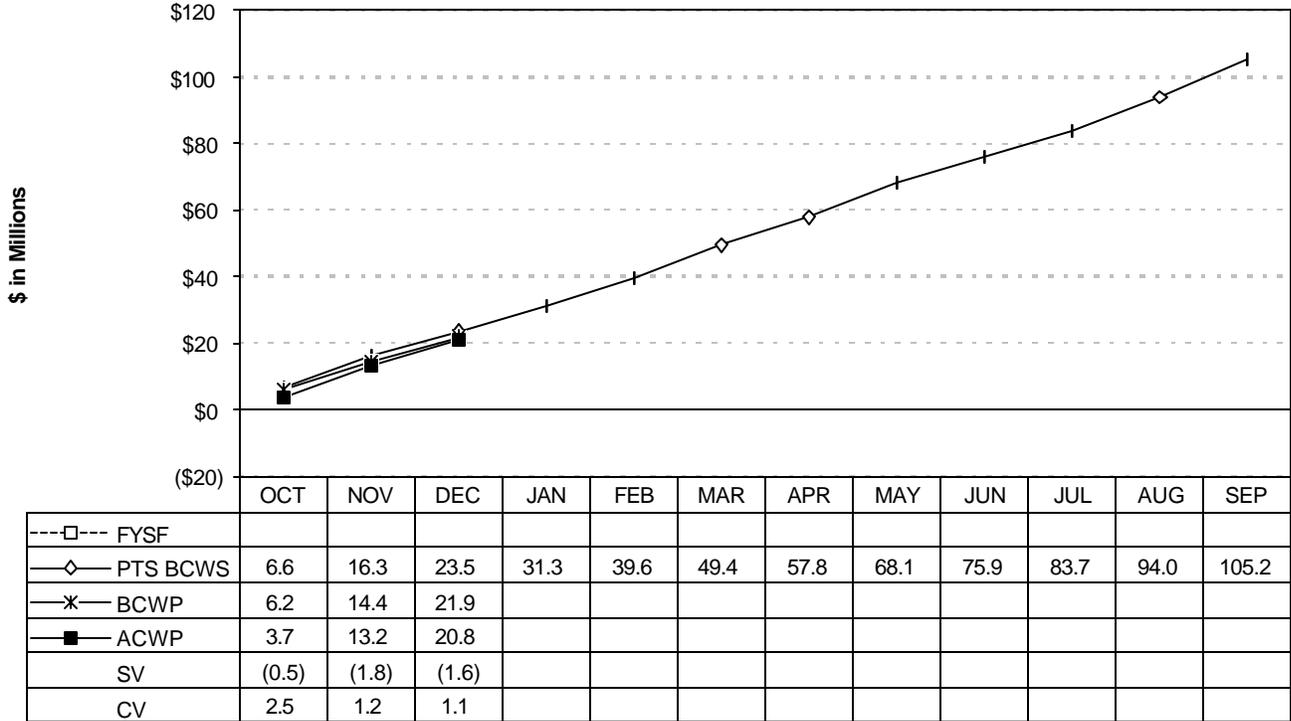
Some current waste streams do not meet the Double Shell Tank (DST) system acceptance criteria. Waste Management is pursuing alternative disposition pathways for the 221-T tank system waste stream due to the presence of TSCA regulated PCBs.

Strategy/Status: WMH is working with FDH and DOE-RL to ensure a strong consolidated approach to compliant and effective PCB waste management. WMH has established a team to identify and propose paths for waste storage, treatment, and disposal alternatives to the DST system. Interim measures to enable continued operations are underway.

WASTE MANAGEMENT WBS 1.2

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES

Cumulative to Date Status



WASTE MANAGEMENT
WBS 1.2 / 1.4.2

			FYTD					AUTH	PTS
			BCWS	BCWP	ACWP	SV	CV	BSLN	BCWS
1.4.2	WESF	Expense	3.1	2.6	2.6	(0.5)	(0.0)	14.0	14.0
TP02		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.4.2		3.1	2.6	2.6	(0.5)	(0.0)	14.0	14.0
1.2.1.	Solid Waste	Expense	8.3	8.1	7.5	(0.2)	0.6	35.3	35.5
WM03	Stor & Disposal	CENRTC	0.0	0.0	0.0	0.0	(0.0)	0.0	0.0
		GPP/LI	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
	Subtotal 1.2.1		8.3	8.1	7.5	(0.2)	0.6	35.3	35.5
1.2.2.	Solid Waste	Expense	5.9	5.1	5.5	(0.8)	(0.4)	26.7	26.7
WM04	Treatment	CENRTC	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.2.2		5.9	5.1	5.5	(0.8)	(0.4)	26.7	26.7
1.2.3.	Liquid Effluents	Expense	6.2	6.1	5.2	(0.1)	0.9	28.9	28.9
WM05		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.2.3		6.2	6.1	5.2	(0.1)	0.9	28.9	28.9
Total Waste Management		Expense	23.5	21.9	20.8	(1.6)	1.1	104.9	105.2
		CENRTC	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0
Total			23.5	21.9	20.8	(1.6)	1.1	104.9	105.2

\$ In Millions

PBS WM06, WBS 1.2.4 is included in Analytical Services, Section B: 2. The 300 Area LEF, PBS WM05, is include in the above table.

COST VARIANCE ANALYSIS: (+\$1.1M)

WBS/PBS

Title

1.2.1/WM03

Solid Waste Storage & Disposal

Description/Cause: The favorable cost variance of \$.6M (7.4 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 \$0.4M (-7.2 percent) is due to the initiation of FY 1999 carryover workscope (TRU PMP and TRU Retrieval).

Impact: No impact.

Corrective Action: The carryover change request will be approved in January, 2000.

1.2.3.1/WM05

Liquid Effluents-200 Area

Description/Cause: The favorable cost variance of \$.7M (14.1 percent) is due to staff vacancies and reduced sample analysis.

Impact: No impact.

Corrective Action: No corrective action required

1.4.2/TP02

WESF

Description/Cause: The favorable cost variance of less than \$0.1M is within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

SCHEDULE VARIANCE ANALYSIS: (-\$1.6)

WBS/PBS

Title

1.2.1/ WM03

Solid Waste Storage & Disposal

Description /Cause: The unfavorable schedule variance of $-.2M$ (-2% 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 $$.8M$ (-13.7 percent) is due to a delay in TRU production caused by WIPP permitting changes. RMW treatment is behind schedule due to ATG not completing construction on their facility.

Impact: None.

Corrective Action: ATG processing began on December 22, 1999. The schedule will be recovered. TRU production is focused only on items necessary to support the WIPP certification audit scheduled for January 24, 2000.

1.2.3.1/WM05

Liquid Effluents-200 Area

Description /Cause: The unfavorable schedule variance of $-.1M$ (2.4 percent) is within the established threshold.

Impact: None.

Corrective Action: None.

1.4.2/TP02

WESF

Description /Cause: The unfavorable schedule variance of $-$0.5M$ (15.9 percent) is due to the deferral of the WESF Safety Analysis Report (SAR).

Impact: None.

Corrective Action: A baseline change request is in process to defer the SAR to FY 2002.

WASTE MANAGEMENT – WBS 1.2 MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	TOTAL FY 2000
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	9	0	9
Total Project	0	0	0	0	0	12	0	12

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

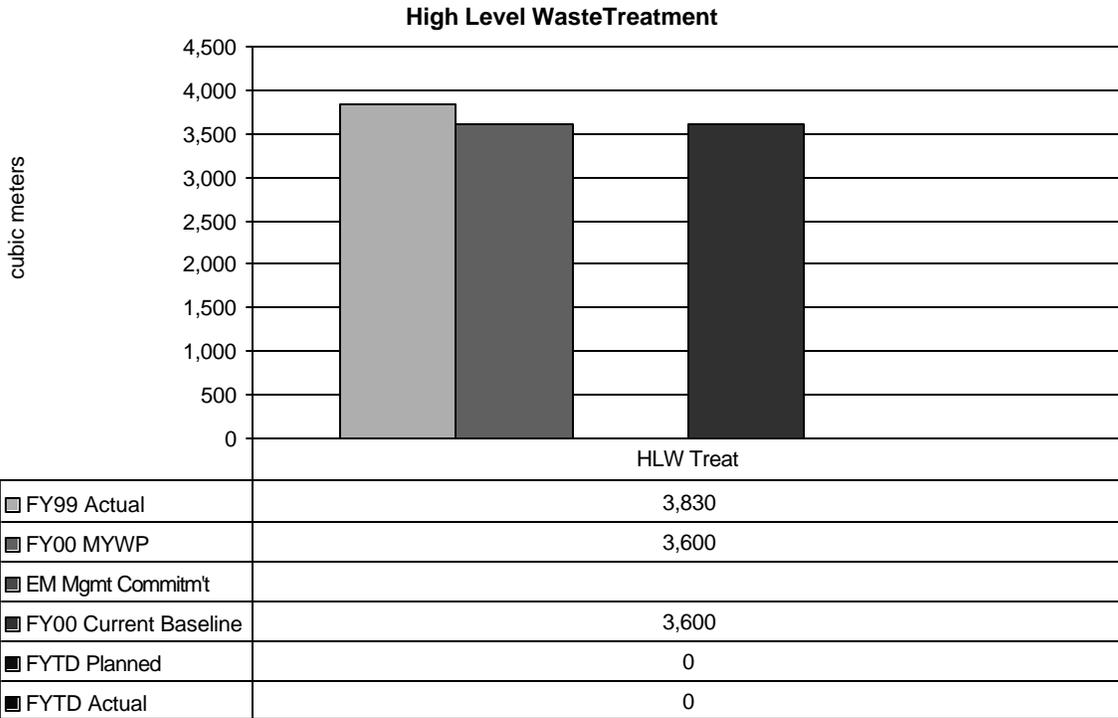
TRP-98-709	RL	Complete Hot Cell Deactivation WESF Facility (A-E)	03/31/99	06/30/00
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Cause: This milestone was not completed due to resources diverted to other higher priority areas (i.e. 200 Area contamination event, Low Level Liquid Waste project, FEB preparation).

Impact: No overall impact is expected.

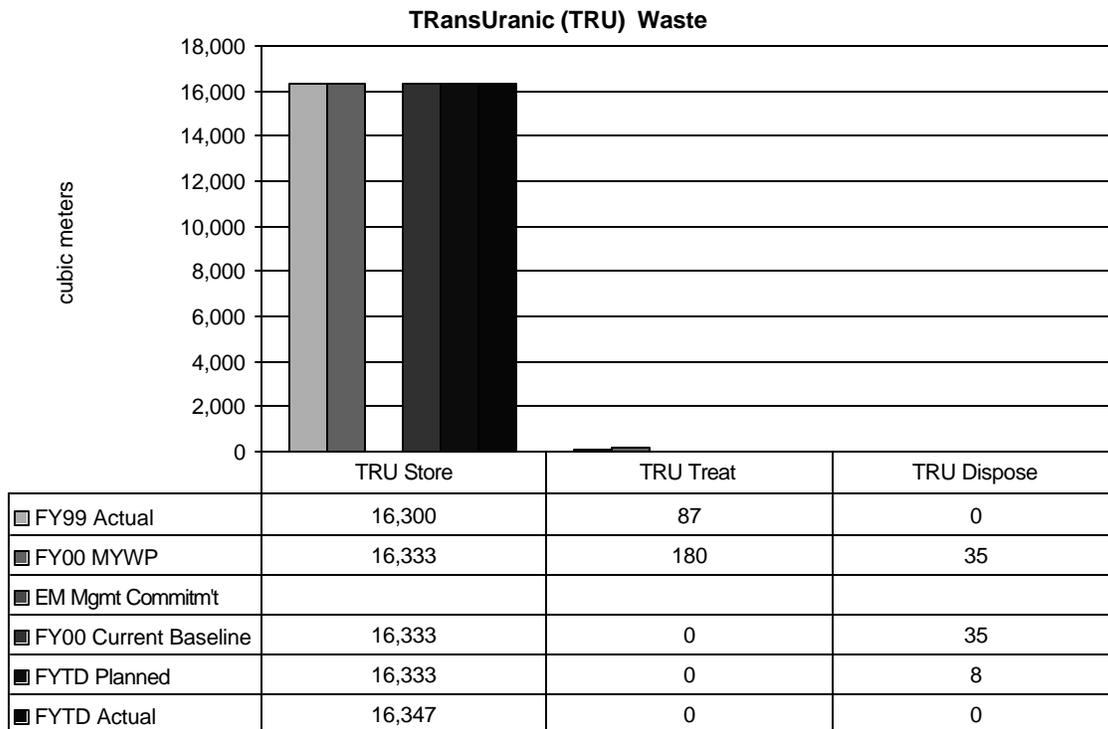
Corrective Action: Awaiting determination of funding source. Cost Air Monitor

HIGH LEVEL WASTE: TREATMENT



Treatment: (Waste Management Mission): Treatment via the 242-A evaporator is planned for the 4th quarter.

TRANSURANIC (TRU) WASTE: STORAGE, TREATMENT AND DISPOSAL



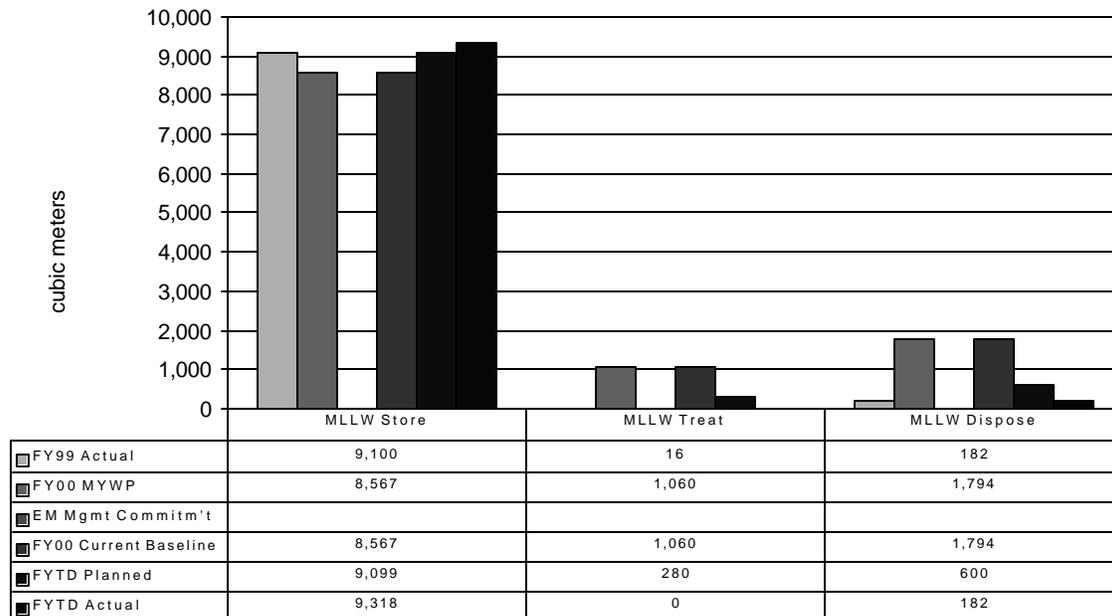
Storage: Storage continues to be provided for existing and newly generated TRU waste. The current volume of TRU in storage is within 10% of the planned amount.

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

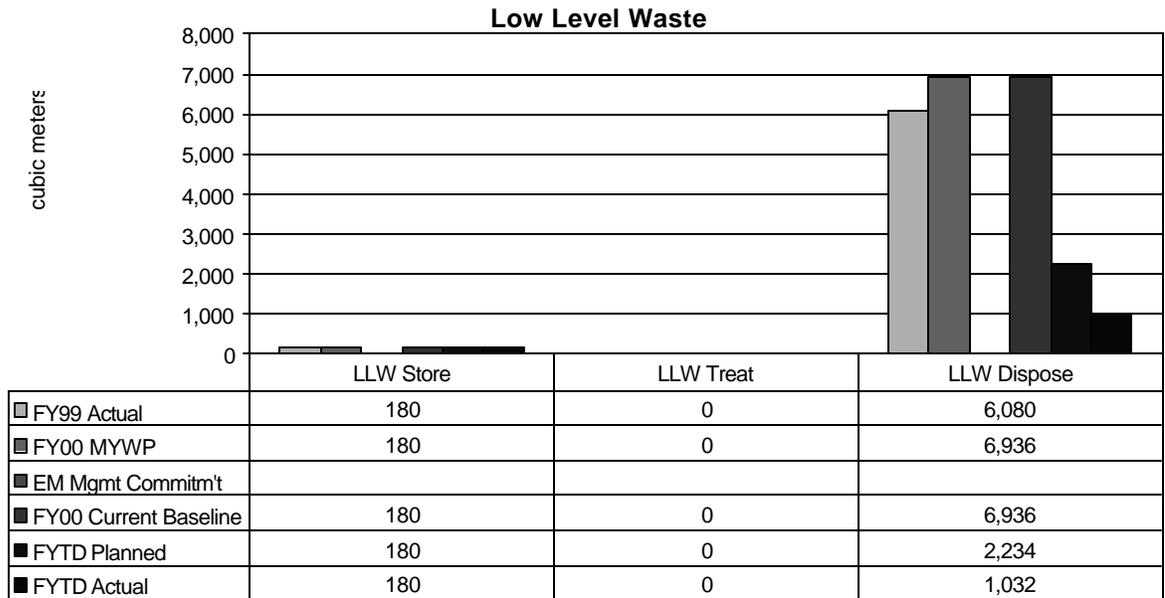


Storage: Storage continues to be provided for existing and newly generated MLLW waste. The current volume of MLLW in storage is within 10% of the planned amount.

Treatment: MLLW is in the process of being treated at Allied Technology Group (ATG). Because final waste treatment certification is not complete, the quantity of MLLW treated will not be reported until next quarter.

Disposal: MLLW being treated at ATG will require certification before disposal in the Site's Mixed Waste Disposal Trench. Both disposal and treatment FY00 totals are expected to be met.

LOW LEVEL WASTE: 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: LLW shipments from Argonne National Laboratory and Battelle Columbus originally planned for the first quarter have been rescheduled to the last 3 quarters.