



Section B:2

Analytical Services

(222-S, HASP, WSCF)

PROJECT MANAGERS

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SUMMARY

The Analytical Services (AS) Project [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

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

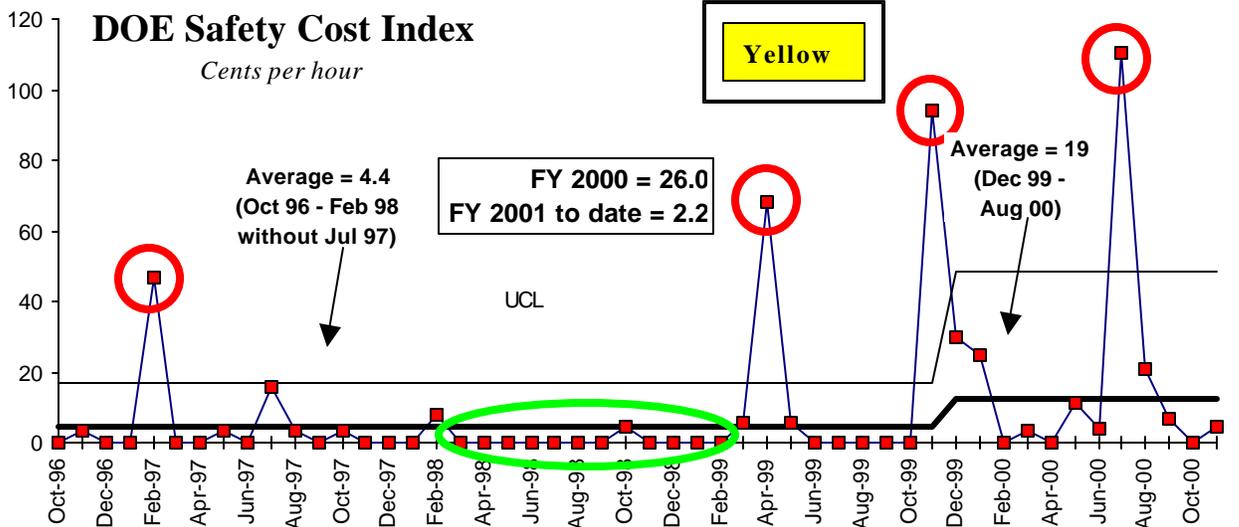
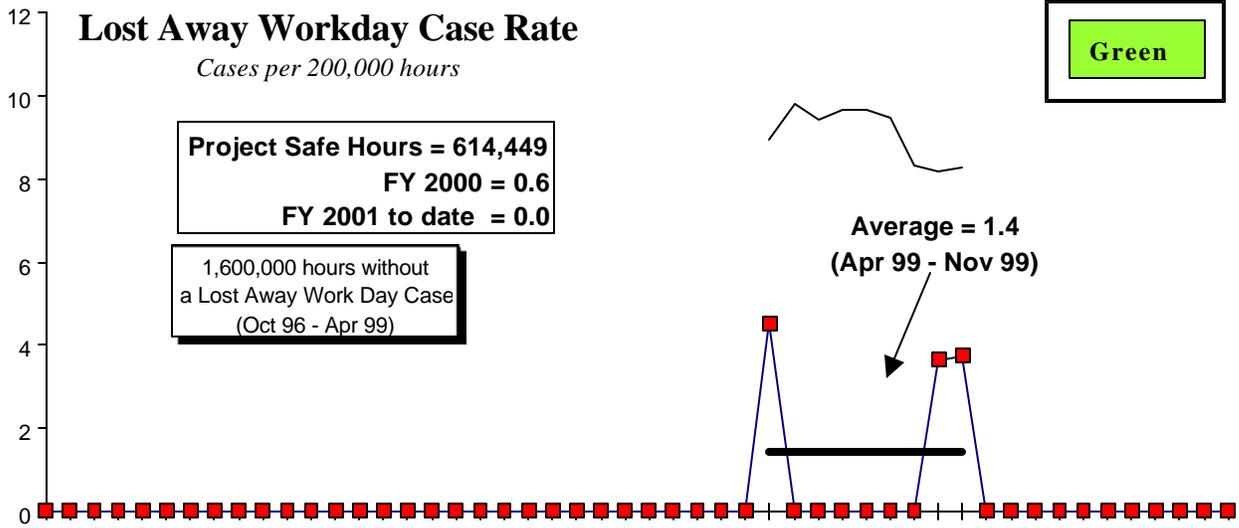
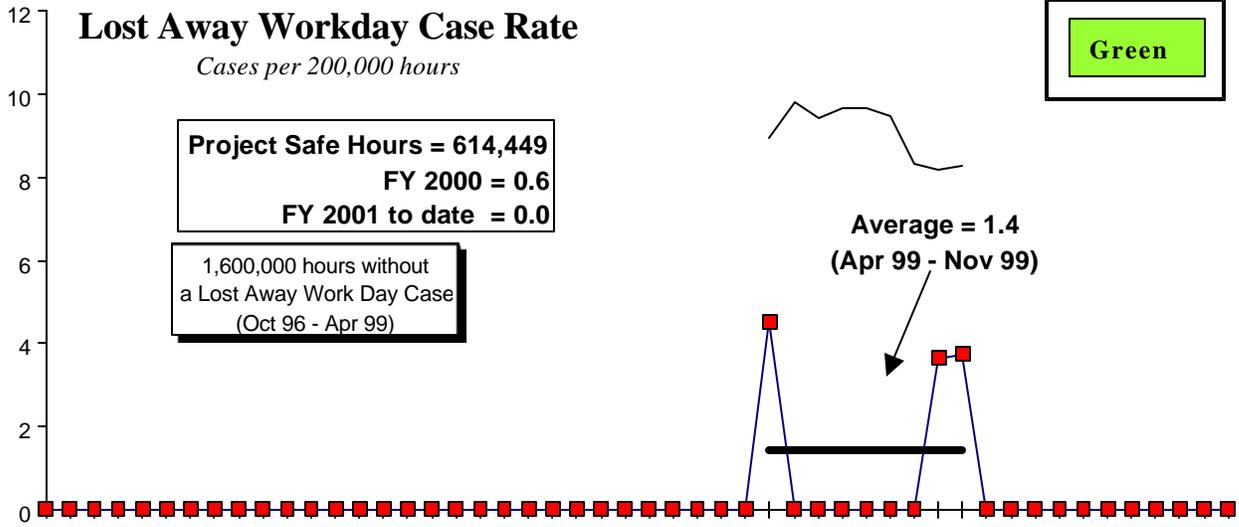
ACCOMPLISHMENTS

- Processed a total of 0.75 Analytical Equivalency Unit (AEUs) at the 222-S Laboratory in November in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through November 30 was 1.83 AEUs versus a planned 1.88 AEUs. Production through January 4, 2001 is 2.7 AEUs.
- Performed 2,982 analyses through December 7, 2000 at WSCF for a wide variety of customers. Production through November 2000 was 2,782 analyses.
- On Monday December 4, the Washington State Department of Health (WDOH) came to the WSCF analytical laboratory to perform a minor stack inspection and to audit laboratory compliance to the conditions in their latest Notice of Construction (NOC). WSCF representatives provided the inspectors with copies of radiation survey reports and the radiation survey report task description to review. The inspectors commented that these documents appeared complete. The inspectors were provided a field walk down of the 696-W-1 and 696-W-2 stacks and their associated systems [high-efficiency particulate air (HEPA) filter, sample stack cabinet and exhausters units]. The inspectors noted no findings or concerns. They also visited the non-point source facilities listed in the WSCF NOC.
- The Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES) contract was awarded December 15, 2000. The ICP-AES will replace an existing 18 years old system at the 222-S Laboratory that has become less reliable and difficult to maintain.

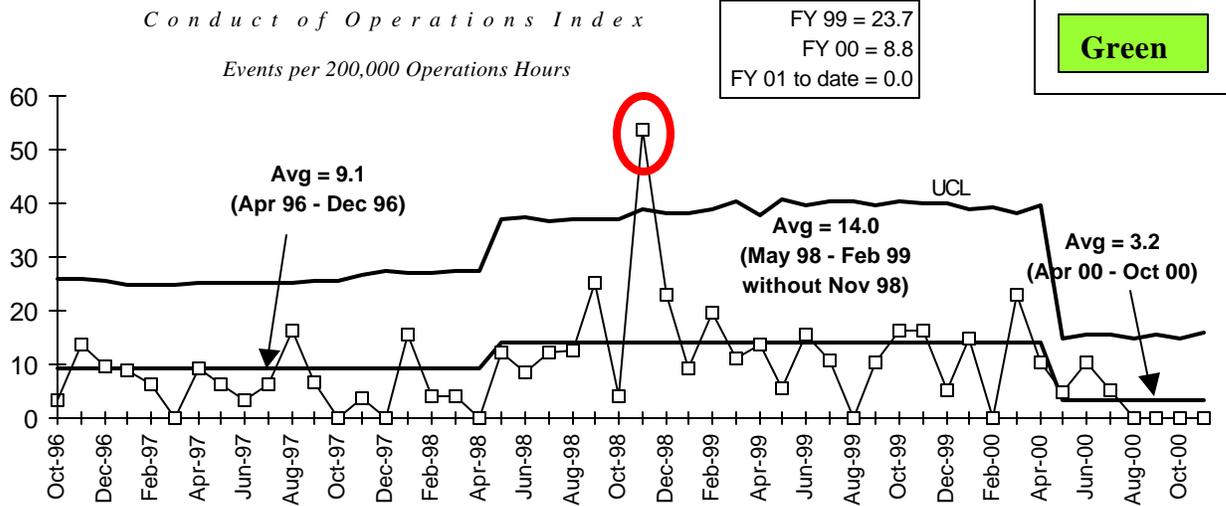
SAFETY

In November, there were no OSHA recordable cases, one Restricted Workday Case, and four First Aid Cases. Analytical Services continues to focus on ergonomic issues, and has brought in Hanford Environmental Health Foundation (HEHF) expertise to 222-S to assist in ergonomic evaluations and Development Staff to revise sample cask handling methods. It is anticipated that this action will improve the Case Rates.

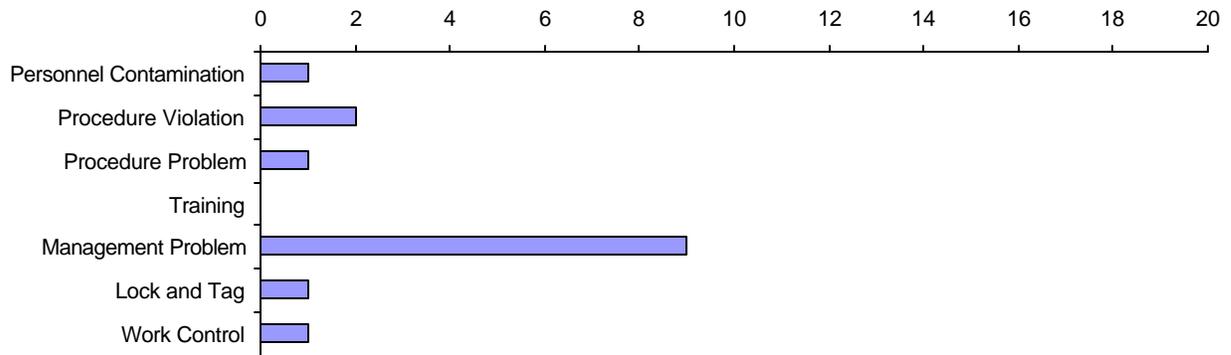
An OSHA Restricted Duty injury case that occurred on July 28, 2000 at the 222-S Laboratory was reclassified to Lost Time Away from work. The employee underwent knee surgery on December 6, 2000 and did not return to work the following day. This reclassification broke the 11 million safe hour record of Fluor Hanford.



CONDUCT OF OPERATIONS / ISMS STATUS



Number of Reports Past 12 Months



ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report.

BREAKTHROUGHS

Nothing to report at this time.

OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

- **WIPP Waste Shipments** — Continue to support the production goal of headspace analysis in support of waste shipments to Waste Isolation Pilot Plant (WIPP). Continued discussions with Idaho National Engineering and Environmental Laboratory (INEEL) (located at Idaho Falls, ID) regarding possible support to the INEEL WIPP program.
- **ORP Waste Treatment Plant (WTP)** — Support DOE-RL and Office of River Protection (ORP) efforts to evaluate options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.).
- **222-S RCRA Part B Application** — Continue to support development of Modification F (which includes 222-S Part B application) of the Hanford Facility (HF) Resource Conservation and Recovery Act of 1976 (RCRA) Permit review. Modification F will be issued after issuance of Modification E [which includes Waste Receiving and Processing (WRAP) and Central Waste Complex (CWC)].
- **PCB Management** — Continue to work with RL and ORP on polychlorinated biphenyl (PCB) management and regulatory issues.

FY TO DATE COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Analytical Services	\$4.6	\$4.3	\$0.4*

*Rounding

The \$0.4 million (8 percent) favorable cost variance was due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

FY TO DATE SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Analytical Services	\$4.6	\$5.1	-\$0.4*

*Rounding

The \$0.4 million (8 percent) unfavorable schedule variance was due to the 222-S HEPA filters and the inductively coupled mass spectrometer (ICP-MS) installation delays. Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown will be scheduled for the April-May timeframe. The prolonged procurement process for the ICP-MS will delay installation until the latter half of the fiscal year. The procurement process for the ICP-MS is ongoing.

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

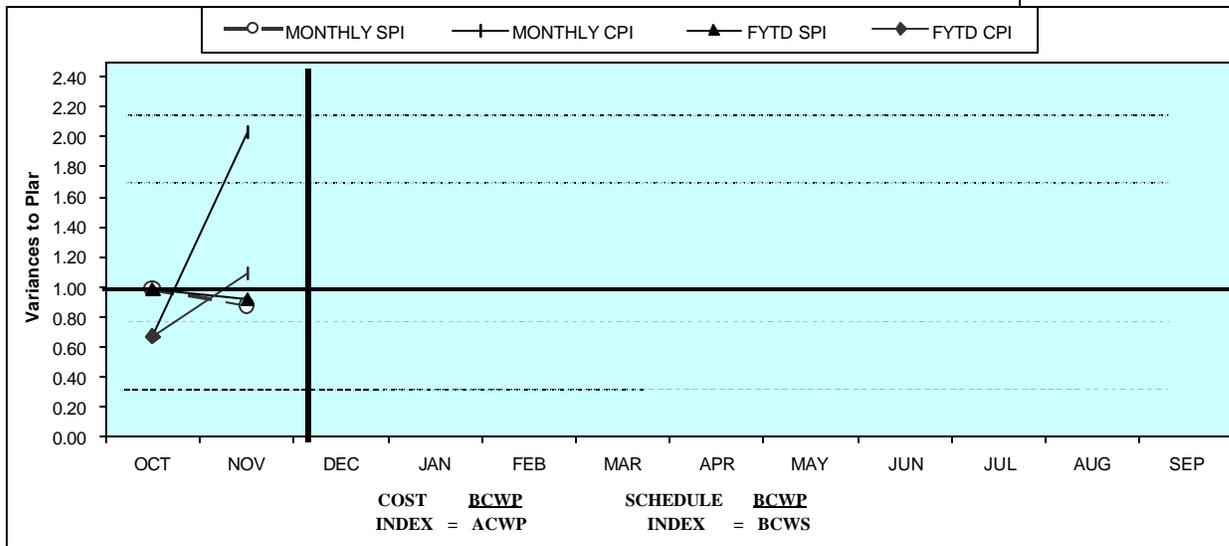
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		FYTD							
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM
WBS 1.2.4	Analytical								
PBS WM06	Services	\$ 5,052	\$ 4,634	\$ 4,260	\$ (418)	-8%	\$ 374	8%	\$ 32,139
Total		\$ 5,052	\$ 4,634	\$ 4,260	\$ (418)	-8%	\$ 374	8%	\$ 32,139

Note: RL-Directed costs (steam and laundry) are included.

COST/SCHEDULE PERFORMANCE INDICES
(MONTHLY AND FYTD)

Green



FY 2001	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	0.87										
MONTHLY CPI	0.67	2.03										
FYTD SPI	0.99	0.92										
FYTD CPI	0.67	1.09										
MONTHLY BCWS	\$2,000	\$3,052	\$2,575	\$2,745	\$2,293	\$2,525	\$2,592	\$3,192	\$2,322	\$2,283	\$3,000	\$3,559
MONTHLY BCWP	\$1,975	\$2,659										
MONTHLY ACWP	\$2,948	\$1,312										
FYTD BCWS	\$2,000	\$5,052	\$7,627	\$10,372	\$12,666	\$15,190	\$17,782	\$20,974	\$23,296	\$25,579	\$28,580	\$32,139
FYTD BCWP	\$1,975	\$4,634										
FYTD ACWP	\$2,948	\$4,260										

COST VARIANCE ANALYSIS: (+\$0.4M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description/Cause: The \$0.4 million (8 percent) favorable cost variance was due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

Impact: None.

Corrective Action: None required.

SCHEDULE VARIANCE ANALYSIS: (-\$0.4M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description /Cause: The \$0.4 million (8 percent) unfavorable schedule variance was due to the 222-S HEPA filters and the inductively coupled mass spectrometer (ICP-MS) installation delays. **Impact:** None.

Corrective Action: Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown will be scheduled for the April-May timeframe. The prolonged procurement process for the ICP-MS will delay installation until the latter half of the fiscal year. The procurement process for the ICP-MS is ongoing.

ISSUES

Technical Issues

Nothing to report at this time.

DOE/Regulator/External Issues

Polychlorinated Biphenyls (PCBs) Management — The DOE Office of River Protection authorized CH2M Hill Group (CHG) to receive two shipments of tank waste from the Fluor Hanford operated 222-S Laboratory. This waste may contain suspect PCB's originating from suspect PCB contaminated tank 241-SY-102. CHG indicated that they will agree to receive the two shipments and will forward authorization to Fluor Hanford to allow these shipments to proceed. This resolution enables the laboratory to receive samples from the tank and begin analyses and to manage the wastes without major costs or interference to other on-site work.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	COST IMPACT \$000	S	T	E	C	H	DATE TO CCR	CCB APP'VD	PI APP'VD	CURRENT STATUS
FH-2001-001	9/12/00	Base Ops Reduction for PHMC Projects	-\$610					X		09/13/00		At DOE-RL
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	-\$190							09/13/00		At DOE-RL
ADVANCE WORK AUTHORIZATIONS												
Nothing to report at this time.												

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MILESTONE ACHIEVEMENT

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	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RI	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	1	0	1

Tri-Party Agreement / EA Milestones
Nothing to report at this time.
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

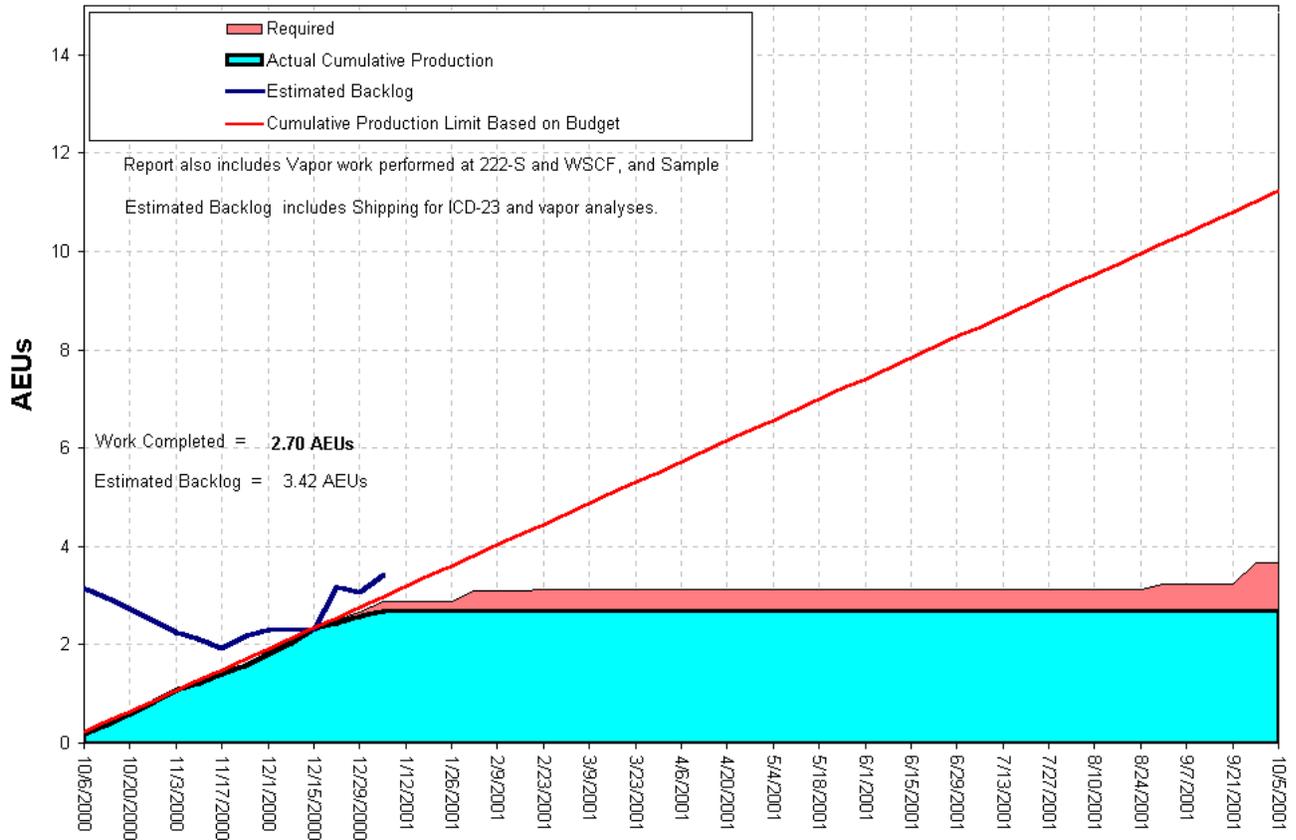
FORECAST LATE – 0

PERFORMANCE OBJECTIVES

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Budgeted Capacity vs. Actual Production - TW01

January 04, 2001



Processed a total of 0.75 AEU's at the 222-S Laboratory in November in support of the RPP (TWRS) tank characterization program. Production through November 30 is 1.83 AEU's versus a planned 1.88 AEU's. Production through January 4, 2001 is 2.7 AEU's.

KEY INTEGRATION ACTIVITIES

- Continue to support DOE-RL and ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Continue to support Waste Management headspace gas analyses for transuranic (TRU) waste shipment to WIPP.