



Section B:2

Analytical Services (222-S, HASP, WSCF)

PROJECT MANAGERS

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SUMMARY

Analytical Services [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 July 31. Other information is updated as noted.

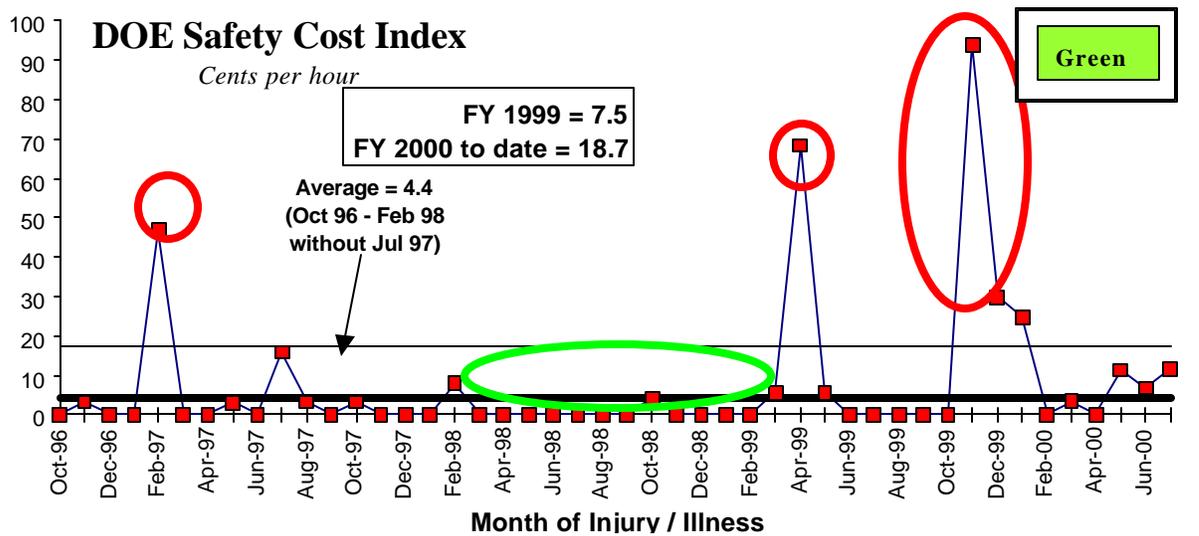
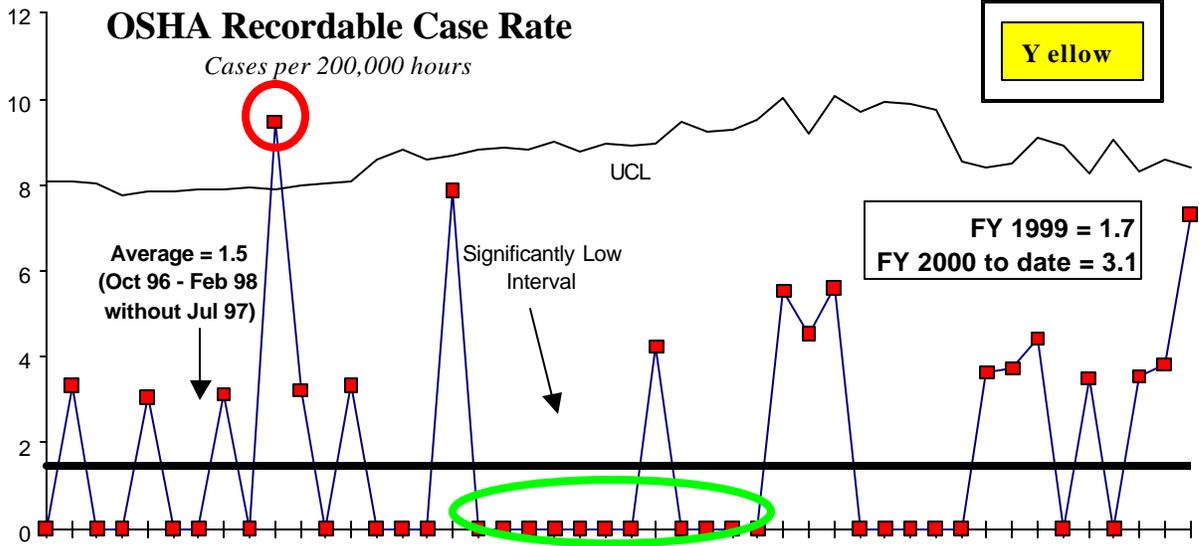
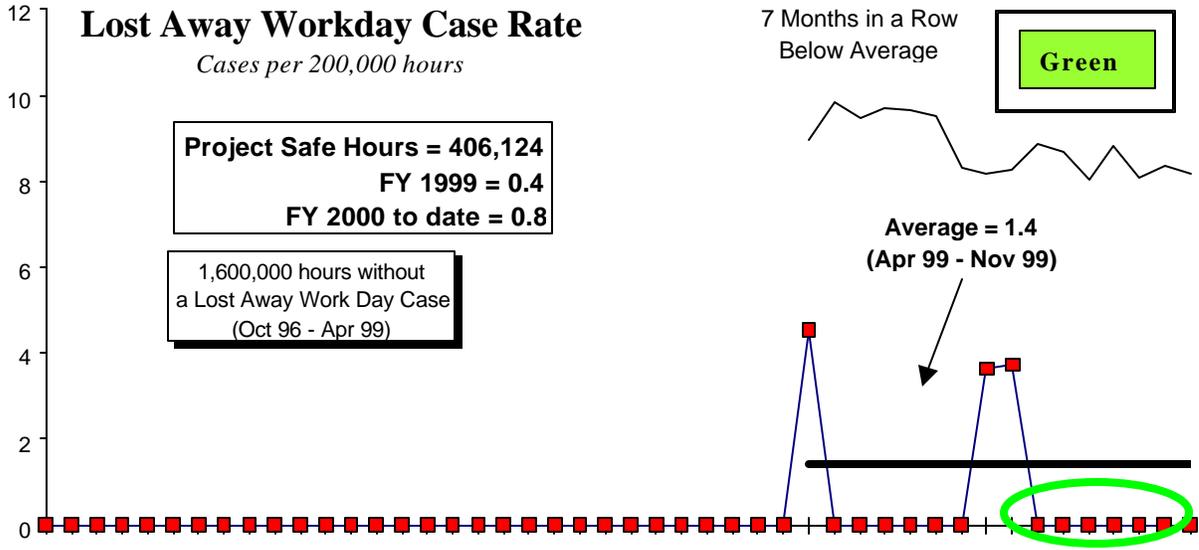
Fiscal-year-to-date-milestone performance (EA, DOE-HQ and RL) shows no milestones are due this reporting period.

ACCOMPLISHMENTS

- Processed a total of 1.2 Analytical Equivalent Unit (AEUs) at the 222-S Laboratory in July in support of the RPP (TWRS) tank characterization program. Production FYTD through July 2000 is 10.3 AEUs, versus a planned 11 AEUs. On track for the 11 AEU commitment.
- Performed another 1500 analyses in July at Waste Sampling and Characterization Facility (WSCF) for a wide variety of customers as planned. FYTD production through July 2000 is 14,666 analyses, and through August 14, 2000 is 15,253 analyses.
- Improved the Headspace Gas Sampling and Analysis "cycle" time from greater than 30 days to less than 10 working days including sampling, report preparation, and review. During the past 4.5 months a total of 172 drums have been sampled and reports prepared and delivered (nine data packages). In addition, additional equipment has been brought on-line that provides the capability for four times the throughput that existed five months ago. Report quality has dramatically improved and the number of personnel required to perform the work has been reduced by ~ 50%.
- Completed HNF-SD-CP-ISB-002, Rev. 5 "222-S Laboratory Interim Safety Basis."
- Ecology (Bob Wilson) inspected 222-S Laboratory on August 21-22 with the intent to close out the 222-S Settlement Agreement. The Agreement expired on June 8, 2000 but states that Ecology will issue a letter vacating the fine. Ecology was satisfied that a system was in place and the controls necessary to adequately manage the waste were identified. A recommendation to close the Settlement Agreement is forthcoming. The Ecology inspector also offered his help as steps are taken to streamline waste management practices at 222-S.
- 222-S RCRA Part B Application - FH completed certification of the 222-S RCRA Part B Application. RL certification was completed and the Application delivered to Ecology on August 30, 2000.

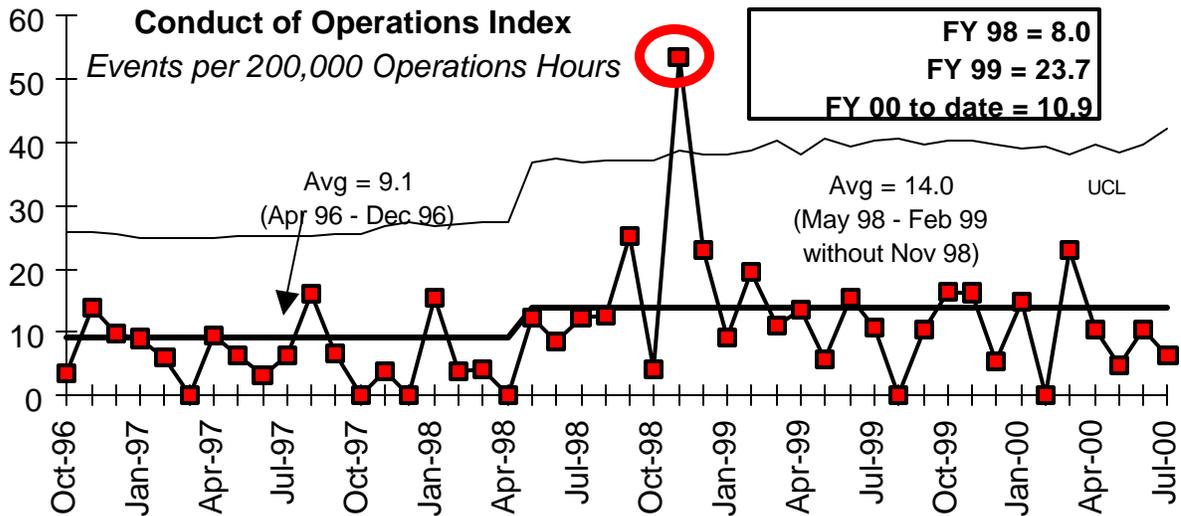
Safety

WSCF is now in excess of 2500 days without a lost time injury. A certificate of appreciation was presented at the Presidents Accident Council on August 17, 2000. In July, there was one lost/restricted day case and one first aid case. Analytical Services continues to focus on ergonomic issues, and has brought HEHF expertise to 222-S to assist in ergonomic evaluations.

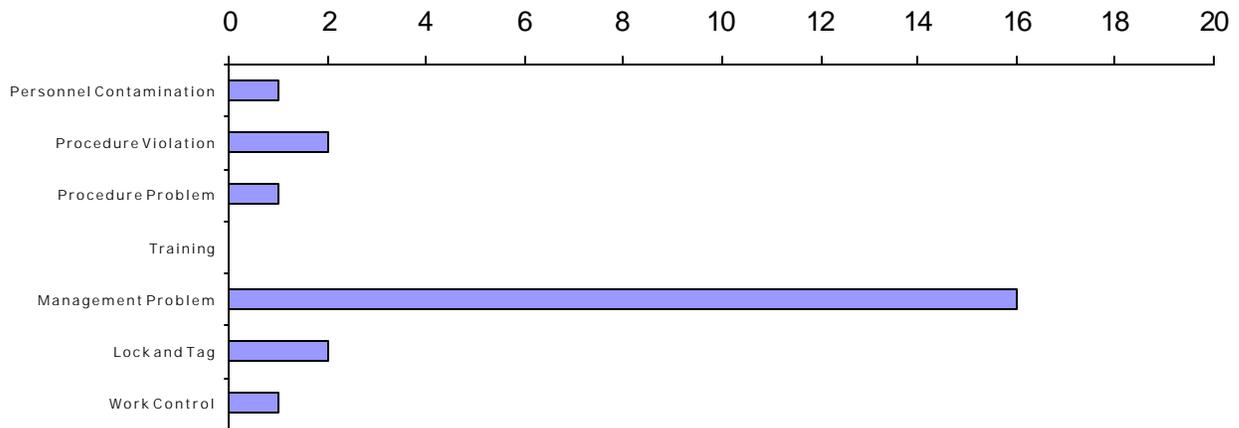


CONDUCT OF OPERATIONS / ISMS STATUS

Green



Number of Reports Past 12 Months



ISMS STATUS

Green

Analytical Services ISMS status is included in the Waste Management Project Section of this report. Supported successful completion of the Phase II verification.

BREAKTHROUGHS

Nothing to report.

OPPORTUNITIES FOR IMPROVEMENT

Analytical Services Facility and Equipment Upgrades Team: RL is assessing the framework under which cleanup can be maximized while working to incorporate a “realistic” funding profile over the next ten to fifteen years. Consistent with the RL outcomes, the priority is achieving the River Corridor Outcome by 2010 or shortly thereafter. This approach necessitates a probable re-sequencing

of the current baseline activities in the 200 Areas. An Analytical Services Facility and Equipment Upgrades Team has identified required facility and equipment work scope to support the RL outcomes. Presentations were made to FH and RL to detail risks and impacts associated with the work scope to the Site cleanup mission. Related activities:

- A long-term laboratory instrument capital plan, including analytical reliability requirements, was prepared in response to concerns over the lack of adequate funding in FY01 and future years for CENRTC, facility repair and LIMS upgrades.
- RPP recognizes the need and is indicating a willingness to fund a portion of the upgrades needed to provide for reliability of analytical services.
- Analytical Services is also seeking incorporation of long-term needs into the DOE-HQ infrastructure initiative.

Analytical Services Turnaround Time Team: A team has been formed to review the 222-S throughput process to identify ways to reduce turnaround times to customers.

Upcoming Activities

WIPP Waste Shipments — Continue to support the production goal of headspace analysis in support of waste shipments to WIPP.

ORP Waste Treatment Plant — A recommendation from the 200 Areas Option Study is to determine Analytical Services support requirements to the ORP Waste Treatment Plant. This includes technical support to the WTP design, cold testing and startup support, process control and monitoring, and troubleshooting. Options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.) are also to be evaluated.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Analytical Services	\$22.6	\$22.1	\$0.5

The \$0.5 million (2 percent) favorable cost variance is within established thresholds.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Analytical Services	\$22.6	\$22.9	- \$0.3

The \$0.3 million (1 percent) unfavorable schedule variance is within the established threshold.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES

CUMULATIVE TO DATE STATUS – (\$000)

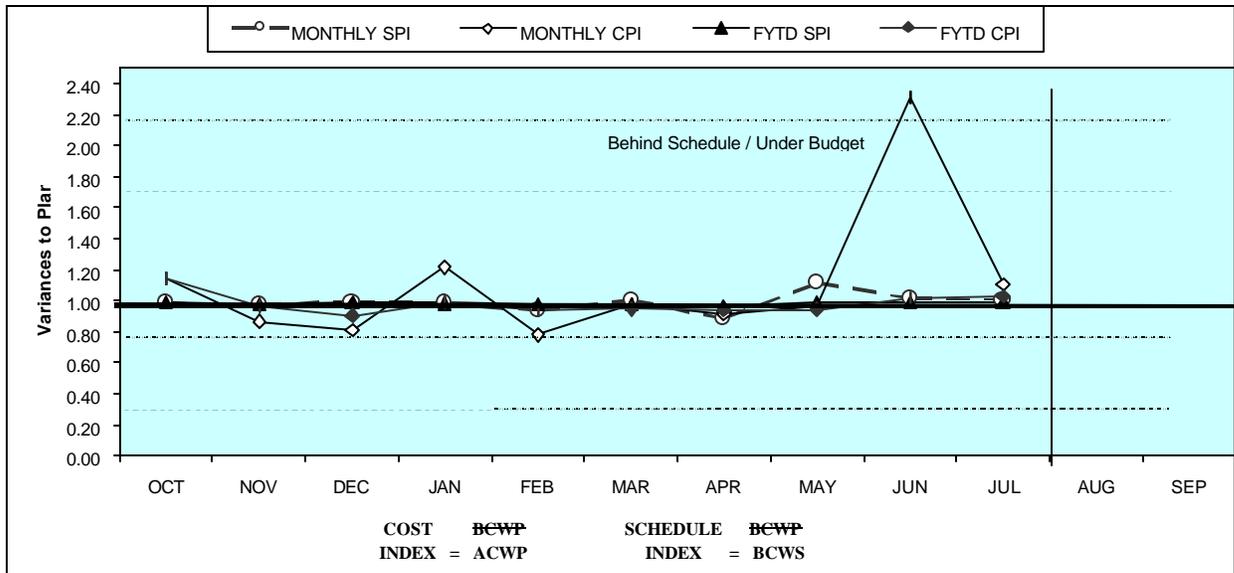
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Bv PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
WBS 1.2.4	Analytical									
PBSWM06	Services	\$ 22,892	\$ 22,568	\$ 22,113	\$ (324)	-1%	\$ 455	2%	\$ 27,843	\$ 27,700
Total		\$ 22,892	\$ 22,568	\$ 22,113	\$ (324)	-1%	\$ 455	2%	\$ 27,843	\$ 27,700

*Note: RL-Directed costs (steam and laundry) are included in the PEM BCWS/ACWP.

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)

Green



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	0.98	0.99	0.98	0.94	1.00	0.88	1.12	1.01	1.01		
MONTHLY CPI	1.14	0.87	0.81	1.22	0.78	0.98	0.91	0.96	2.31	1.11		
FYTD SPI	0.99	0.98	0.99	0.98	0.97	0.98	0.97	0.99	0.99	0.99		
FYTD CPI	1.14	0.96	0.91	0.99	0.94	0.95	0.94	0.94	1.02	1.03		
MONTHLY BCWS	\$1,588	\$2,340	\$1,973	\$2,896	\$2,283	\$2,613	\$2,279	\$2,358	\$2,493	\$2,069	\$2,507	\$2,444
MONTHLY BCWP	\$1,566	\$2,288	\$1,960	\$2,848	\$2,135	\$2,624	\$2,010	\$2,632	\$2,527	\$2,086		
MONTHLY ACWP	\$1,369	\$2,640	\$2,414	\$2,342	\$2,741	\$2,686	\$2,208	\$2,733	\$1,093	\$1,885		
FYTD BCWS	\$1,588	\$3,928	\$5,901	\$8,797	\$11,080	\$13,693	\$15,973	\$18,330	\$20,823	\$22,892	\$25,400	\$27,843
FYTD BCWP	\$1,566	\$3,854	\$5,814	\$8,662	\$10,797	\$13,421	\$15,431	\$18,063	\$20,590	\$22,676		
FYTD ACWP	\$1,369	\$4,009	\$6,423	\$8,765	\$11,506	\$14,193	\$16,401	\$19,134	\$20,228	\$22,113		

COST VARIANCE ANALYSIS: (\$0.5M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description/Cause: The favorable cost variance of \$0.5 million (2.0 percent) is within established thresholds.

Impact: Current yearend projections indicate Analytical Services will align with available funds.

Corrective Action: Corrective actions have been identified and implemented to maintain projections.

SCHEDULE VARIANCE ANALYSIS: (-\$0.3M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description /Cause: The unfavorable schedule variance of \$0.3M (1.4 percent) is within established threshold.

Impact: None.

Corrective Action: None required.

FUNDS MANAGEMENT FUNDS VS SPENDING FORECAST (\$000) FY TO DATE THROUGH JULY 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 1.2.4 Analytical Svcs (222-S,HASP,WSCF) WM06				26,461	26,474	(13) 0			
Line Item									
Total Analytical Serv. Operating				\$ 26,461	\$ 26,474	(13)			
Total Analytical Serv. Line Item									

* Control Point

ISSUES

Technical Issues

Nothing to report.

DOE/Regulator/External Issues

PCB Management — Analytical Services participated in a PCB workshop with EPA, Ecology, DOE and contractor personnel on August 23 & 24 to discuss management of PCBs at Hanford. The primary topics of discussion dealt with the consequences of managing tank farms waste as TSCA-regulated, the anticipated path-forward, and the associated impacts to interrelated facilities. Other issues were discussed, including management of PCB laboratory/R&D wastes and the management of low-concentration PCBs. On August 26, DOE and contractor personnel met to discuss the results of the

meeting and brainstorm about the next steps. It was agreed that a working group needed to be assembled to develop a comprehensive PCB management plan for Hanford and that two-way communication with the existing PCB strategy team was necessary. It was also agreed that a list of questions would be assembled and forwarded to EPA to document understanding regarding certain TSCA regulations.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	PCB TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCB	CCB APPROVD	PL APPROVD	CURRENT STATUS
		Nothing to report at this time.							
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

MILESTONE ACHIEVEMENT

Green

M ILESTONE 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	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
EO	0	0	0	0	0	0	0	0
RL	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.
DNFSB Commitments
Nothing to report.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Baseline Milestone Title</u>	<u>Forecast Date</u>
<u>Date</u>			

OVERDUE – 0

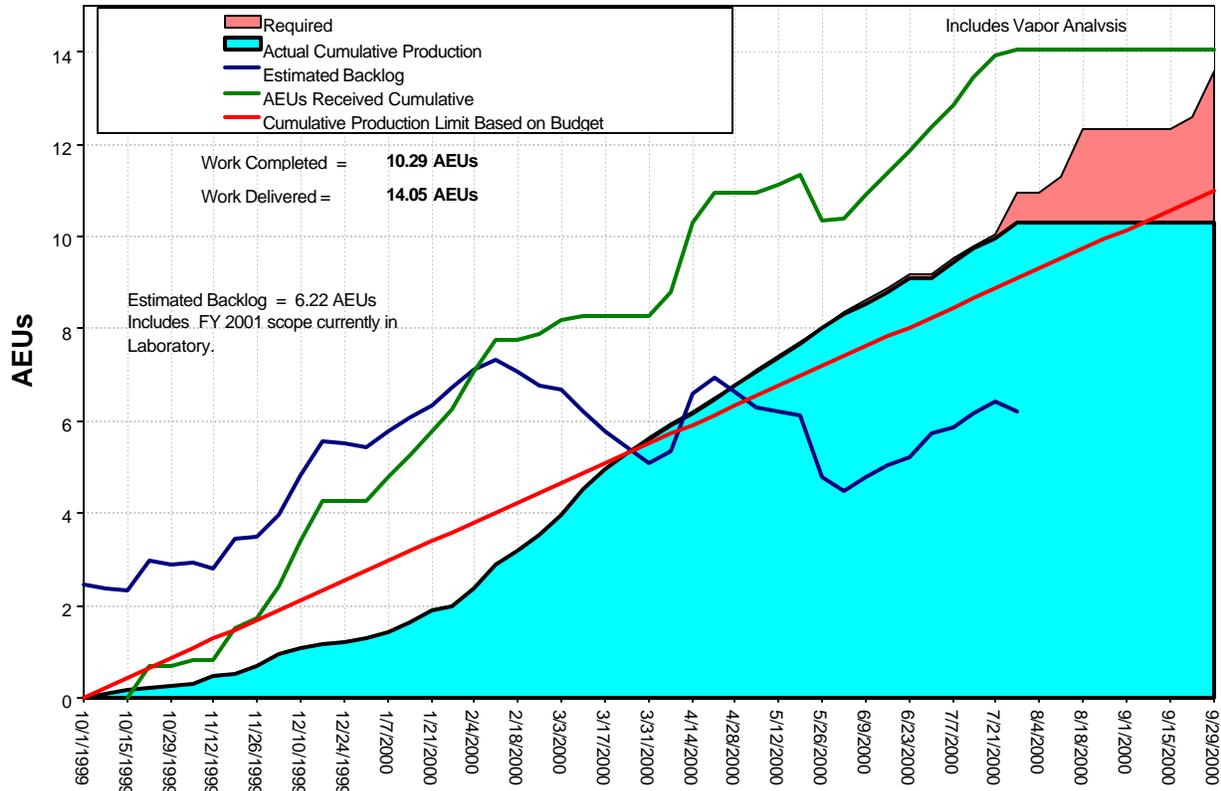
FORECAST LATE – 0

PERFORMANCE OBJECTIVES



Budgeted Capacity vs. Actual Production - TW01

July 28, 2000



Continue working with RPP on 222-S laboratory production integration. Will meet the September 2000 commitment of eleven AEUs. Production through July 2000 is 10.3 AEUs, versus a planned 11 AEUs. Production for the month of July was 1.2 AEUs.

KEY INTEGRATION ACTIVITIES

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