



# Section B:2

## *Analytical Services (222-S, HASP, WSCF)*

### **PROJECT MANAGERS**

S.H. Wisness, RL  
(509) 373-9337

D.L. Renberger, FH  
(509) 372-0877

## 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 March 31, 2001. Other data is updated as noted.

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

## NOTABLE ACCOMPLISHMENTS

A total of 0.75 Analytical Equivalency Units (AEUs) were processed at the 222-S Laboratory in March in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through March was 4.6 AEUs versus a planned 5.0 AEUs. Production through April 16, 2001 was 4.8 AEUs.

The final report for Tank 241-AZ-101 mixer pump test 5, 7, 8 and 9 grab samples was transmitted from the 222-S "Labcore" system to the Tank Characterization Database. This data was successfully loaded, verified and up loaded within the seven-day limit established by TPA data access and delivery requirements (section 9.6.3). The 221-U, sample delivery group #2 data report was issued on April 11, 2001.

The Waste Sampling and Characterization Facility (WSCF) performed 8,587 analyses through March 2001 for a wide variety of customers. Production through April 16, 2001 was 9,107 analyses.

The 222-S Laboratory Complex, Part A, Form 3, Revision 9 was approved by Ecology on March 19, 2001. The Part A, Form 3, was revised to include illustrations that were modified to show the "loading/unloading areas" and removal of 26 dangerous waste numbers eliminated in accordance with Federal Register's (FR) 50 FR 51125, 62 FR 32977, and Washington Administrative Code (WAC) 173-303.

The safety expo team provided an introduction to Analytical Laboratories to numerous children on "Take Your Child To Work" day. Chemistry experiments, tours, lunch, and chemistry literature were supplied for the children that visited the 222-S laboratory.

## SAFETY

In March 2001, there was one First Aid Case and one Not Job Related Case. It has been seven months since the last Lost Away Workday Case. The past six months of OSHA recordable case rate has been below average, at 1.1 cases per 200,000 hours, above the 0.9 cases per 200,000 hours FH goal. A seventh month will mark a significant improvement and result in a "green" rating. The DOE Safety Cost Index is rated "yellow", even though the FY 2001 rate of 4.5 cents per hour is lower than the FY 2000 rate of 29 cents per hour and the FH goal of 8 cents per hour. A "green" rating will be achieved when additional safe operations are demonstrated which establishes a positive statistical trend.

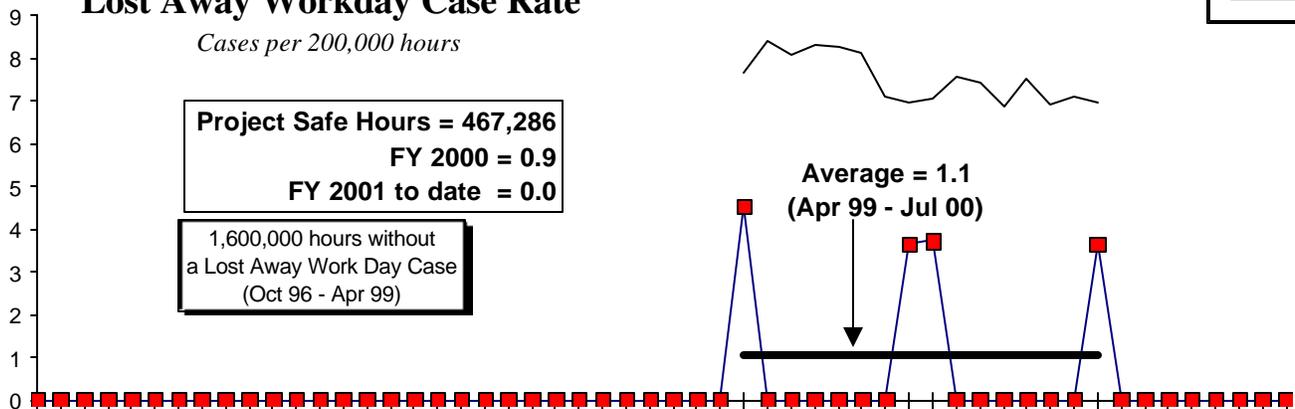
Green

### Lost Away Workday Case Rate

Cases per 200,000 hours

Project Safe Hours = 467,286  
FY 2000 = 0.9  
FY 2001 to date = 0.0

1,600,000 hours without  
a Lost Away Work Day Case  
(Oct 96 - Apr 99)



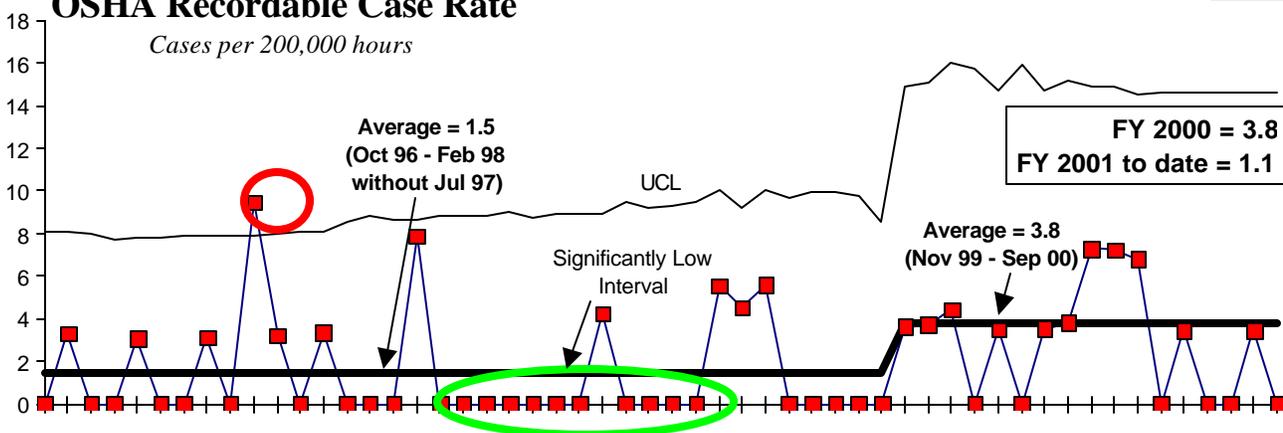
Yellow

### OSHA Recordable Case Rate

Cases per 200,000 hours

Average = 1.5  
(Oct 96 - Feb 98  
without Jul 97)

FY 2000 = 3.8  
FY 2001 to date = 1.1



Yellow

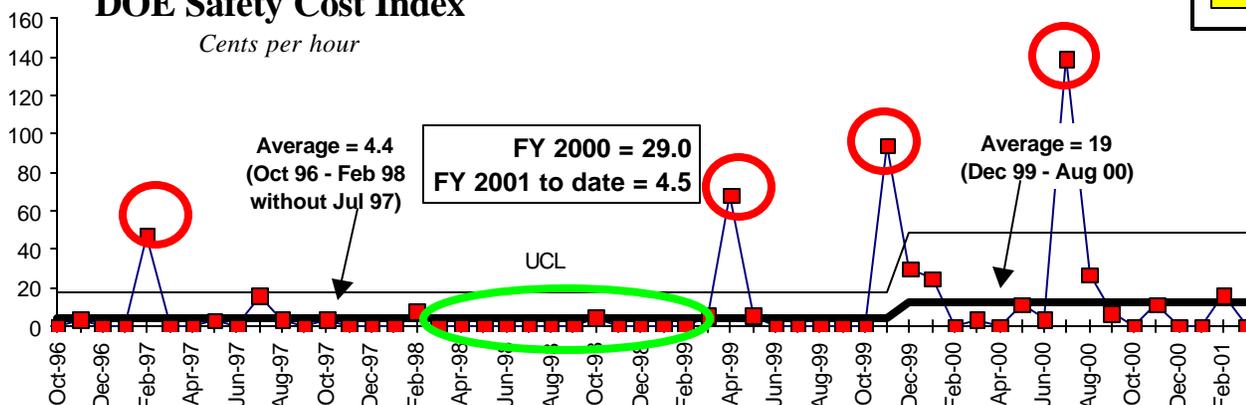
### DOE Safety Cost Index

Cents per hour

Average = 4.4  
(Oct 96 - Feb 98  
without Jul 97)

FY 2000 = 29.0  
FY 2001 to date = 4.5

Average = 19  
(Dec 99 - Aug 00)

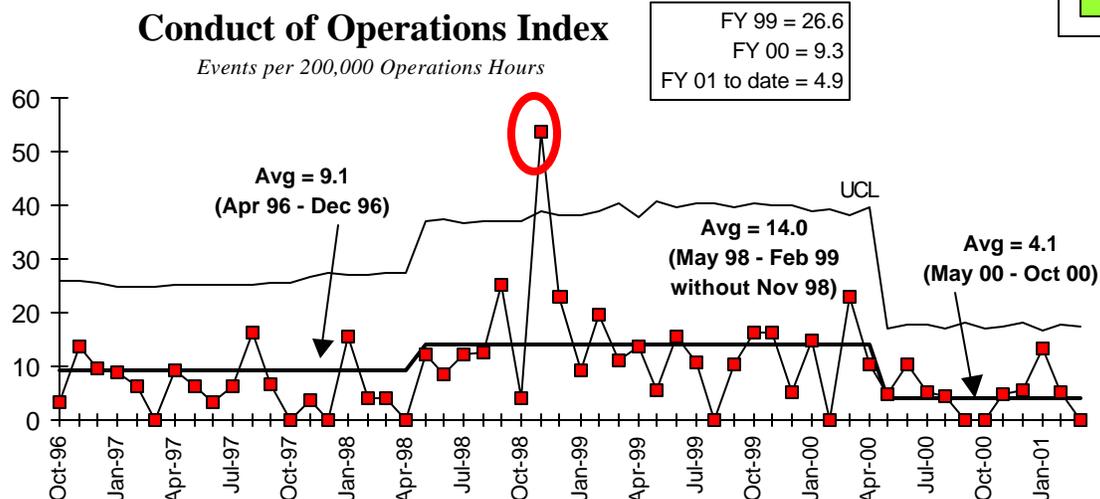


## ISMS STATUS

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

### CONDUCT OF OPERATIONS

Green



### BREAKTHROUGHS/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). This includes an additional 72 drums planned for sampling through May, beyond the baseline 200 drums previously planned.

**ORP Waste Treatment Plant (WTP)** — Support 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.).

**Ecology Inspection of Collodion Recovery Actions** — Support RL to assess impacts and respond to the Ecology close-out letter, which documents potential violations and concerns from the Ecology inspection at WSCF and 222-S. WSCF began actions to inventory chemicals and further address corrective actions from the collodion Notice of Correction issued by Ecology. The 222-S Laboratory is proceeding on inventorying chemicals and designating standards/reagents as part of the corrective measures required by the Notice of Correction.

**222-S RCRA Part B Application** — Ecology formally told RL and FH that the public hearing period for Modification F to the Hanford Site RCRA Permit (which includes the 222-S Laboratory Part B) has been placed on hold. Public hearings will be held when the discrepancy between the DST Part B and the 222-S Part B with regard to the acceptance of off-site waste are resolved.

**WSCF HVAC Outage** — Continue to work toward the scheduled 10-day outage for the HVAC upgrade later in FY 2001.

**Green**

## 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
FO	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

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows.

<b>Tri-Party Agreement / EA Milestones</b>
Nothing to report at this time.
<b>DNFSB Commitments</b>
Nothing to report at this time.

## MILESTONE EXCEPTION REPORT

<u>Number/WBS Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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**Overdue – 0**

**Forecast Late – 0**

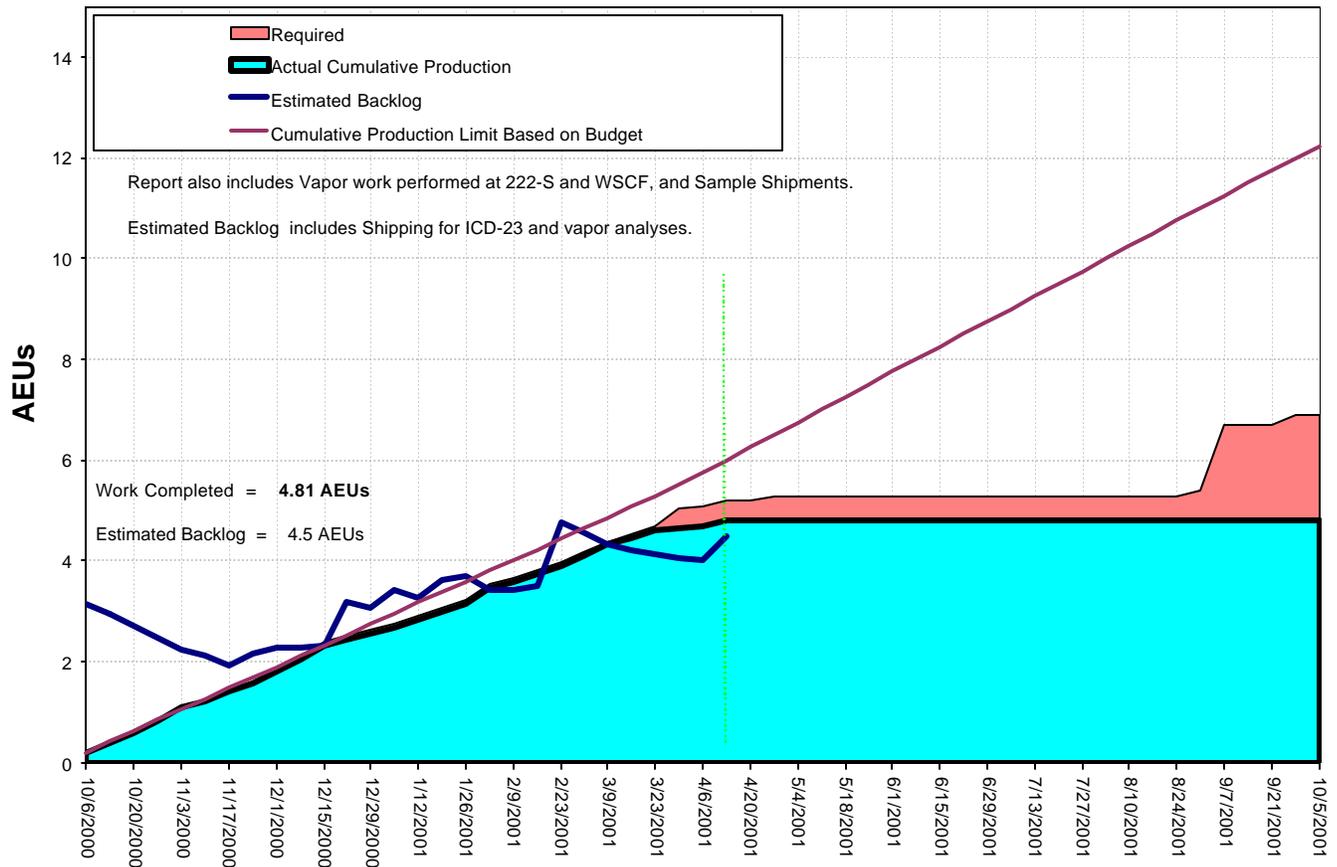
## PERFORMANCE OBJECTIVES

Green

### Laboratory Production

#### Budgeted Capacity vs. Actual Production - TW01

April 16, 2001



Processed a total of 0.75 Analytical Equivalency Unit (AEUs) at the 222-S Laboratory in March in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through March was 4.6 AEUs versus a planned 5.0 AEUs. Production through April 16, 2001 was 4.8 AEUs.

Substantial additional work from other programs within RPP to address new tank issues (caustic addition program) and newly identified issues within the ERC REDOX Plant cleanup project have resulted in laboratory backlogs that need to be resolved. Corrective actions are being identified.

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

Green

		FYTD								
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
WBS 1.2.4	Analytical	\$ 15,656	\$ 15,307	\$ 14,881	\$ (349)	-2%	\$ 426	3%	\$ 32,430	\$ 32,028
PBS WM06	Services									
<b>Total</b>		\$ 15,656	\$ 15,307	\$ 14,881	\$ (349)	-2%	\$ 426	3%	\$ 32,430	\$ 32,028

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

## FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.3 million (2 percent) unfavorable schedule variance is due to the 222-S HEPA filters. Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown is scheduled for later in FY 2001.

The \$0.4 million (3 percent) favorable cost variance is due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

### Schedule Variance Analysis: (-\$0.3M)

#### Analytical Services — 1.2.4/WM06

**Description and Cause:** The \$0.3 million (2 percent) unfavorable schedule variance was due to the 222-S HEPA filters.

**Impact:** None.

**Corrective Action:** Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown is scheduled for later in FY 2001.

### Cost Variance Analysis: (+\$0.4M)

#### Analytical Services — 1.2.4/WM06

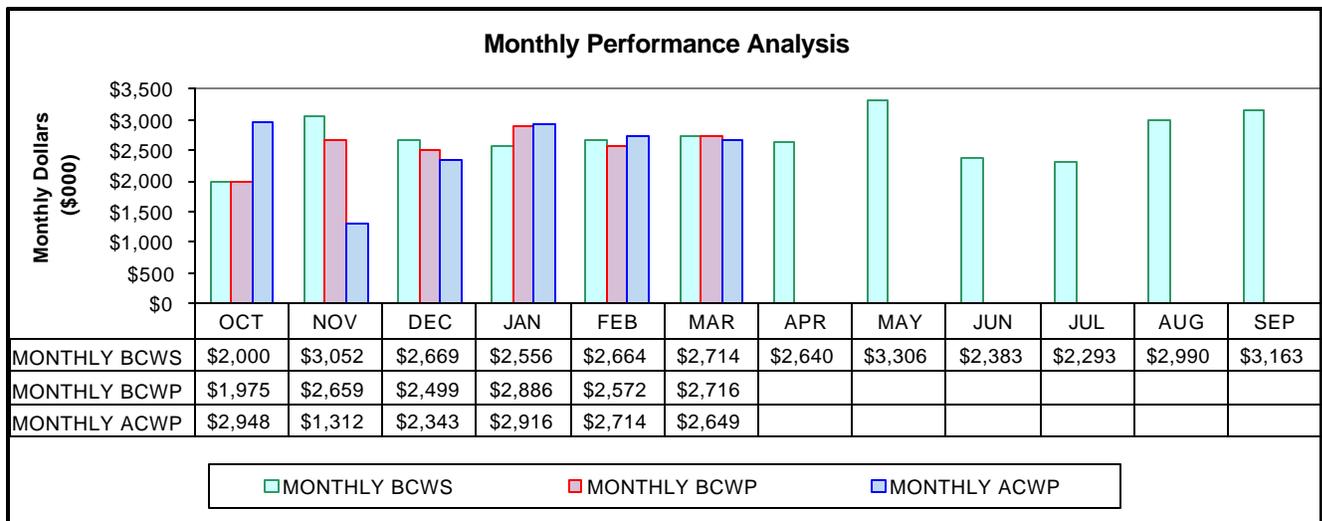
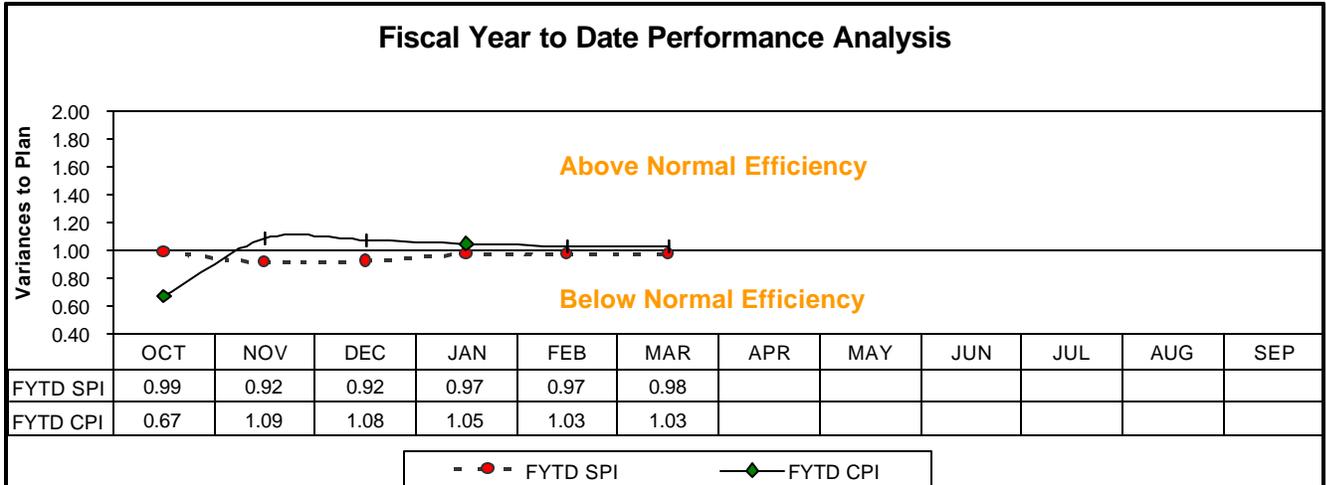
**Description and Cause:** The \$0.4 million (3 percent) favorable cost variance was due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

**Impact:** None.

**Corrective Action:** None required.

## SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)

Green



## FUNDS MANAGEMENT — FY 2001 TO DATE FUNDS VS SPENDING FORECAST (\$000)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
<b>The Plateau</b>									
1.2.4 Analytical Svcs (222-S,HASP,WSCF)									
WM06									
Line Item									
Total Analytical Serv. Operating				\$ 31,093	\$ 31,416	\$ (323)			
Total Analytical Serv. Line Item				\$ 31,093	\$ 31,416	\$ (323)			

\* Control Point

## ISSUES

### Regulatory Issues

**Ecology Inspection of Collodion Recovery Actions** — The Notice of Correction was received which defined three violations and three concerns. Ecology has levied a fine of \$57.8K.

**Impacts:** Impacts are being evaluated.

**Corrective Action:** DOE and FH agreed to implement the actions specified by Ecology and have filed for rescinding of the penalty on multiple grounds.

### Technical, External, DOE Issues and DOE Requests

**Issues:** None identified at this time.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	COST IMPACT \$000	S C H	T E C H	DATE	TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
		Nothing to report at this time.								
ADVANCE WORK AUTHORIZATIONS										
		Nothing to report at this time.								

## 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.
- Support CHG high-level waste tank vapor analysis and feed to glass plant characterization.