

Environmental Management Performance Report June 2000

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Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management



**United States
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Richland Operations Office
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INTRODUCTION

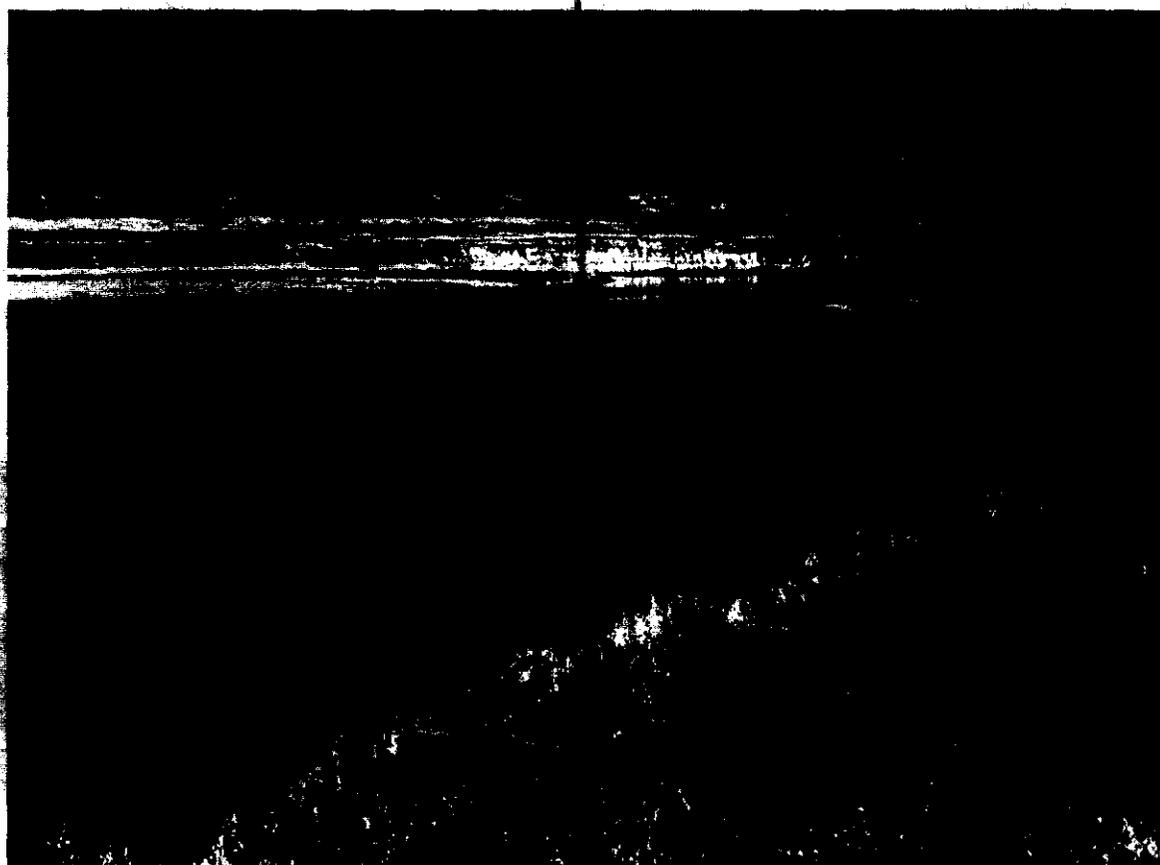
The purpose of the Environmental Management Performance Report (EMPR) is to provide the Department of Energy Richland Operations Office's (DOE-RL's) report of Hanford's Environmental Management (EM) performance by:

- Project Hanford Management Contract (PHMC) through Fluor Hanford, Inc. (FH) and its subcontractors,
- Environmental Restoration Contract through Bechtel Hanford, Inc. (BHI), and its subcontractors,
- Pacific Northwest National Laboratories (PNNL) for Science and Technology support to the EM Mission, and
- Office of Safety Regulation of the TWRS Privatization Contractor.

This report is a monthly publication that summarizes EM Site performance under RL Operations Office. It is organized by the four sections listed above, with each section containing an Executive Summary and Area Performance Summaries. A glossary of terms is provided at the end of this report for reference purposes.

The report date on the cover reflects the month in which the report is released.

**Project Hanford Management Contractor
Environmental Management Performance
Report to
DOE Richland Operations Office
June 2000**



Fluor Hanford

A Fluor Global Services Company

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INTRODUCTION

The purpose of this report is to provide the Department of Energy Richland Operations Office (DOE-RL) a monthly summary of the Project Hanford Management Contractor's (PHMC) Environmental Management (EM) performance by Fluor Hanford (FH) and its subcontractors. In addition to project-specific information, it includes some PHMC-level data not detailed elsewhere in the report.

Section A, Executive Summary, provides an executive level summary of the cost, schedule, and technical performance described in this report. It summarizes performance for the period covered, highlights areas worthy of management attention, and provides a forward look to some of the upcoming key performance activities as extracted from the PHMC baseline.

The remaining sections provide detailed performance data relative to each individual Project (e.g., Waste Management, Spent Nuclear Fuels, etc.), in support of Section A of the report. Unless otherwise noted, the Safety, Conduct of Operations, and Cost/Schedule data contained herein is as of April 30, 2000. All other information is updated as of May 19, unless otherwise noted.

SECTION A

EXECUTIVE SUMMARY



INTRODUCTION

This section provides an executive level summary of the performance information covered in this report and is intended to bring to Management's attention that information considered to be most noteworthy. All cost, schedule, milestone commitments, performance measures, and safety data is current as of April 30. Accomplishments, Issues and Integration items are current as of May 19 unless otherwise noted.

The section begins with a description of notable accomplishments that have occurred since the last report and are considered to have made the greatest contribution toward safe, timely, and cost-effective clean up. Following the accomplishment section is an overall fiscal year-to-date summary analysis addressing cost, schedule, and milestone performance. Overviews of safety ensue. The next segment of the Executive Summary, entitled Critical Issues, is designed to identify the high-level challenges to achieving cleanup progress.

The next section includes FY 2000 EM Management Commitment High Visibility Project Milestones and Critical Few Performance Measures.

The Key Integration Activities section follows next, highlighting PHMC activities that cross contractor boundaries and demonstrate the shared value of partnering with other Site entities to accomplish the work. Concluding the Executive Summary, a forward-looking synopsis of Upcoming Planned Key Events is provided.

NOTABLE ACCOMPLISHMENTS

- As of May 14, 2000, a total of 255 cans of Plutonium oxides and sludges have been stabilized through thermal stabilization (31 items since last report).
- The first four Multi-Canister Overpacks (MCOs) were received from Joseph Oat, Inc. Fabrication of the MCO baskets continued at the Hanford Site.
- The Cold Vacuum Drying Facility Bay 5 was turned over to Operations for training and procedure walkdown.
- Ten grout containers, of the planned seventeen, have now been shipped to the Low-level Burial Grounds in the 200 Area. Shipment of this waste is critical to meeting TPA milestone M-89-02, "Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment," due November 2000.
- The results of the follow up visit for certification of the Hanford Site for characterization, certification and shipment of TRU wastes to the WIPP was completed. All five Corrective Action Reports (CARs) were closed.
- Good progress was made toward closeout of the actions required by the B Plant transfer Memorandum of Agreement (MOA). Repair of the cracked duct was completed on May 5, 2000 and turnover criteria are being negotiated between Bechtel Hanford, Inc., Fluor Hanford, and the Department of Energy – Richland.
- Progress continues toward Accelerated Deactivation of the 327 Facility with the removal of 202 of the 294 specimen containers from Dry Storage.
- The 242A Evaporator campaign was completed on May 2, 2000, seven days ahead of schedule. The campaign processed 1.3 million gallons of high-level radioactive waste with an all-time high operational efficiency of 99.7%.

PERFORMANCE DATA AND ANALYSIS

The following provides a brief synopsis of overall PHMC Environmental Management (EM) cost, schedule, and milestone performance.

FY 2000 Cost and Schedule Performance

Cost Performance — Fiscal-year-to-date (FYTD) cost performance reflects a four percent (\$14.0 million) unfavorable cost variance that is within the established +10/-5 percent threshold.

Schedule Performance — There is a FYTD seven and one-half percent (\$25.8 million) unfavorable schedule variance that is at the established +10/-7.5 percent threshold.

Data Through April 2000

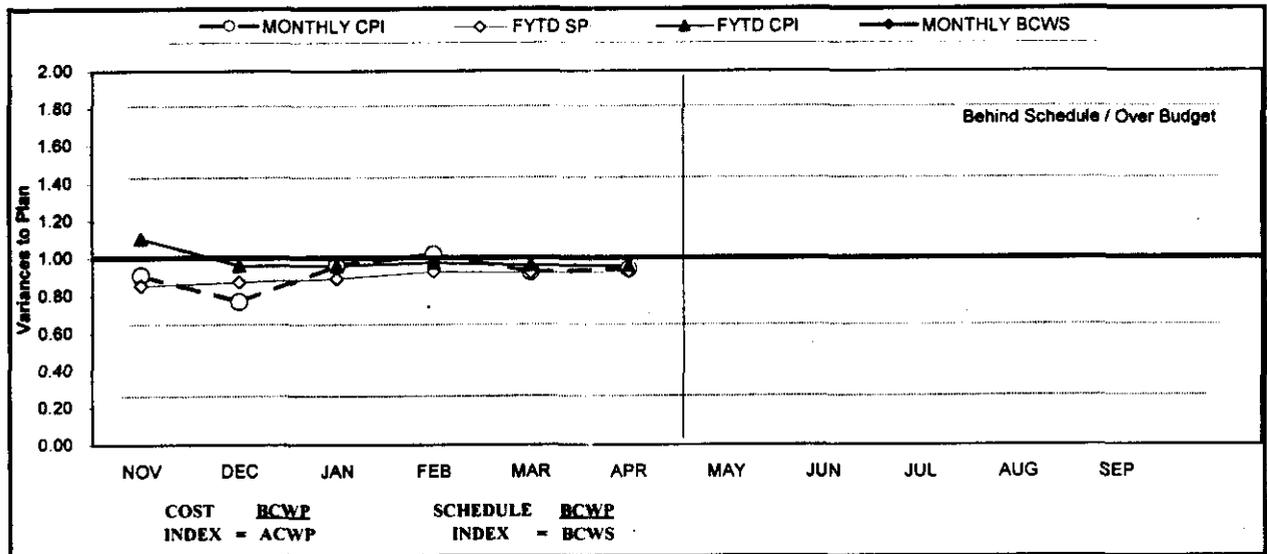
	Current Fiscal Year Performance (\$ x Million)					PEM	FYSF	EAC
	FYTD			Schedule Variance	Cost Variance			
	BCWS	BCWP	ACWP					
The Plateau								
1.2 Waste Management TP02,WM03-05	60.3	57.1	57.1	(3.2)	(0.0)	110.2	108.0	108.0
1.2.4 Analytical Svcs (222-S,HASP,WSCF) WM06	16.0	15.4	16.4	(0.5)	(1.0)	27.8	28.7	29.1
1.4.5 Nuclear Materials Stabilization TP05	75.3	60.7	65.5	(14.7)	(4.8)	127.2	127.6	127.0
Subtotal The Plateau	151.6	133.2	139.0	(18.4)	(5.8)	265.2	264.3	264.1
The River								
1.4 River Corridor TP01,TP04,TP08,TP10,TP12,TP14	32.5	31.7	29.7	(0.7)	2.0	62.1	52.0	52.2
1.3 Spent Nuclear Fuel WM01	111.0	111.3	123.2	0.3	(11.9)	195.1	201.4	201.4
1.1.2 Advanced Reactors (EM)	0.7	0.8	0.7	0.0	0.1	1.5	1.1	1.1
Technology Development (EM-50)	12.2	10.4	9.6	(1.7)	0.8	22.9	22.9	22.9
Subtotal The River	156.3	154.2	163.2	(2.2)	(9.1)	281.5	277.4	277.6
The Future								
1.9 HAMMER HM01	3.6	3.4	3.1	(0.2)	0.3	6.2	5.9	5.9
Subtotal The Future	3.6	3.4	3.1	(0.2)	0.3	6.2	5.9	5.9
Multiple Outcomes								
1.5 Landlord TP13	7.4	6.4	3.9	(1.0)	2.5	14.3	13.4	15.0
1.8 Mission Support OT01, OT04	22.4	18.1	20.6	(4.3)	(2.5)	45.7	47.2	47.0
1.11 & WM07 National Programs OT02, WM07	2.4	2.7	2.1	0.2	0.6	6.2	4.6	6.1
Subtotal Multiple Outcomes	32.3	27.2	26.6	(5.0)	0.6	66.2	65.1	68.2
Total PHMC Projects	343.8	318.0	332.0	(25.8)	(14.0)	619.1	612.8	615.8

Notes: Column headings (BCWS, BCWP, FYSF, EAC, etc.) are defined in the glossary at the end of the report. Calculations are based on Project Baseline Summary detail. Waste Management and Nuclear Materials Stabilization have included RL-Directed costs (e.g. steam and laundry) in the PEM BCWS. Advanced Reactors (EM) have included steam. Technology Development does not include ORP/RPP TTPs currently reported in the RL Dataset in the HQ-IPABS-PEM.

PHMC Environmental Management Performance Report - June 2000
Section A - Executive Summary

The following Cost/Schedule and Variance to Plan chart provides an overall graphical view of fiscal year to date performance and cost and schedule performance indicators.

FY 2000 COST / SCHEDULE PERFORMANCE
APRIL 2000 CUMULATIVE TO DATE STATUS



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.91	0.82	0.91	0.94	1.06	0.90	0.96					
MONTHLY CPI	1.63	0.91	0.77	0.96	1.02	0.92	0.94					
FYTD SPI	0.91	0.85	0.87	0.89	0.93	0.92	0.92					
FYTD CPI	1.63	1.10	0.96	0.96	0.97	0.96	0.96					
MONTHLY BCWS	\$ 32,593	\$ 53,767	\$ 43,044	\$ 45,672	\$ 48,699	\$ 71,043	\$ 48,946	\$ 60,699	\$ 44,643	\$ 48,418	\$ 60,666	\$ 60,958
MONTHLY BCWP	\$ 29,522	\$ 44,109	\$ 39,143	\$ 42,979	\$ 51,468	\$ 63,739	\$ 47,010					
MONTHLY ACWP	\$ 18,079	\$ 48,593	\$ 50,990	\$ 44,809	\$ 50,494	\$ 69,041	\$ 49,967					
FYTD BCWS	\$ 32,593	\$ 86,360	\$ 129,404	\$ 175,075	\$ 223,774	\$ 294,817	\$ 343,763	\$ 404,462	\$ 449,105	\$ 497,523	\$ 558,189	\$ 619,147
FYTD BCWP	\$ 29,522	\$ 73,631	\$ 112,774	\$ 155,753	\$ 207,221	\$ 270,960	\$ 317,970					
FYTD ACWP	\$ 18,079	\$ 66,672	\$ 117,662	\$ 162,471	\$ 212,965	\$ 282,006	\$ 331,973					

MILESTONE PERFORMANCE

Milestones represent significant events in project execution. They are established to provide a higher level of visibility to critical deliverables and to provide specific status about the accomplishment of these key events. Because of the relative importance of milestones, the ability to track and assess milestone performance provides an effective tool for managing the PHMC EM cleanup mission.

FYTD milestone performance (Enforceable Agreement [EA], U.S. Department of Energy-Headquarters [DOE-HQ], and RL) shows that 32 of 44 (73 percent) approved baseline milestones were completed on or ahead of schedule, 3 milestones (7 percent) were completed late, and 9 milestones (20 percent) are overdue. The nine overdue milestones are associated with five projects: Nuclear Material Stabilization—three, River Corridor—two, Environmental Management (EM)-50—two, Landlord—one, and Mission Support—one. These overdue milestones do not share a common cause.

In addition to the FY2000 milestones described above, there are four overdue milestones from the prior fiscal year (FY1999). Further details regarding these milestones may be found in the Project Sections.

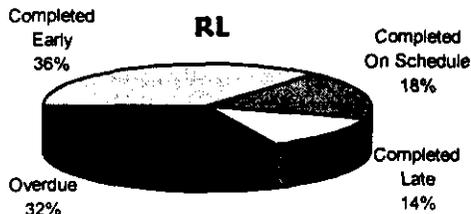
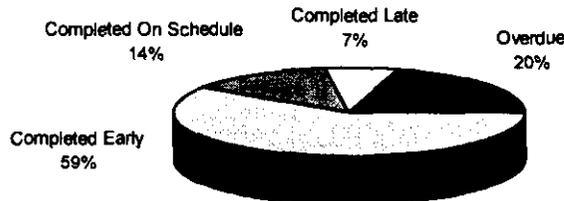
PHMC Environmental Management Performance Report—June 2000
Section A—Executive Summary

FY 2000 information is depicted graphically below and on the following page. For additional details related to the data in the graphs and prior year milestones, refer to the relevant project section titled “Milestone Exception Report.”

FY 2000 information reflects the current approved baseline. Changes in both the number and type of milestones from month to month are the result of Baseline Change Requests (BCRs) approved during the year.

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	18	2	0	1	0	12	0	33
DOE-HQ	0	0	0	1	0	3	0	4
RL	8	4	3	7	0	52	0	74
Total Project	26	6	3	9	0	67	0	111

Total Project

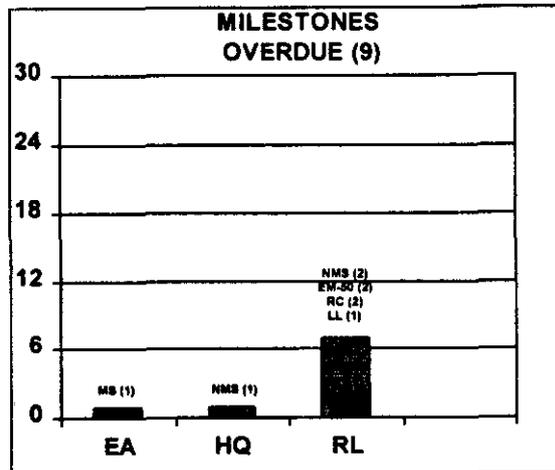
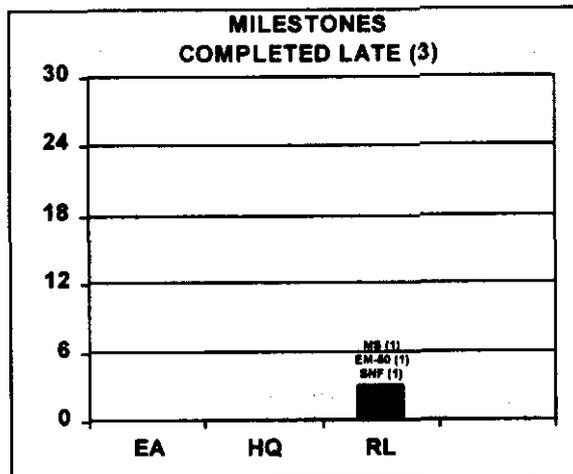


Enforceable Agreement

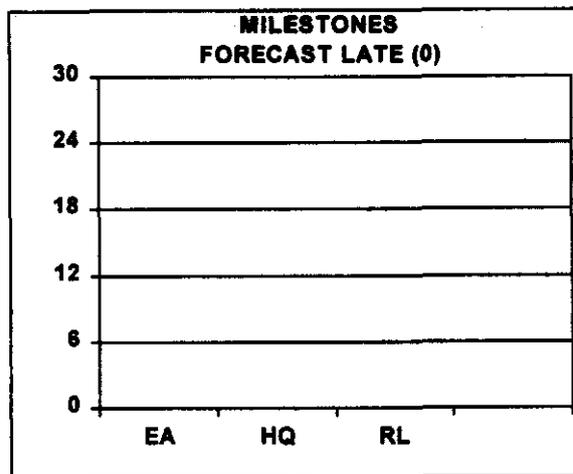


MILESTONE EXCEPTIONS

FISCAL YEAR TO DATE



REMAINING SCHEDULED



These charts provide detail by project and milestone level / type for milestones

- Completed Late
- Overdue
- Forecast Late

- Detailed information can be found in the individual project sections

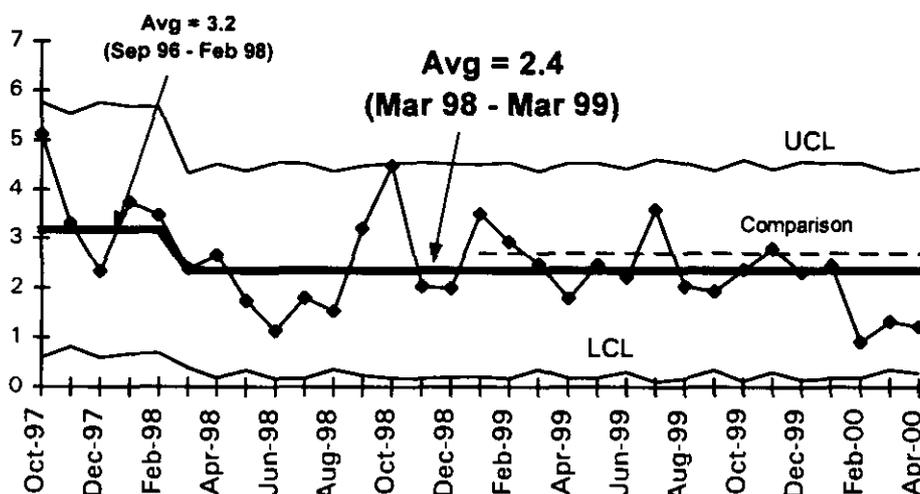
SAFETY OVERVIEW

The focus of this section is to document trends in occurrences. Improvements in these rates are due to the efforts of the PHMC workforce as they implement the Integrated ES&H Management System (ISMS), work towards achieving Voluntary Protection Program (VPP) "star" status, and accomplish work through Enhanced Work Planning (EWP). Safety and health statistical data is presented in this section.

SIGNIFICANT SAFETY AND HEALTH EVENTS

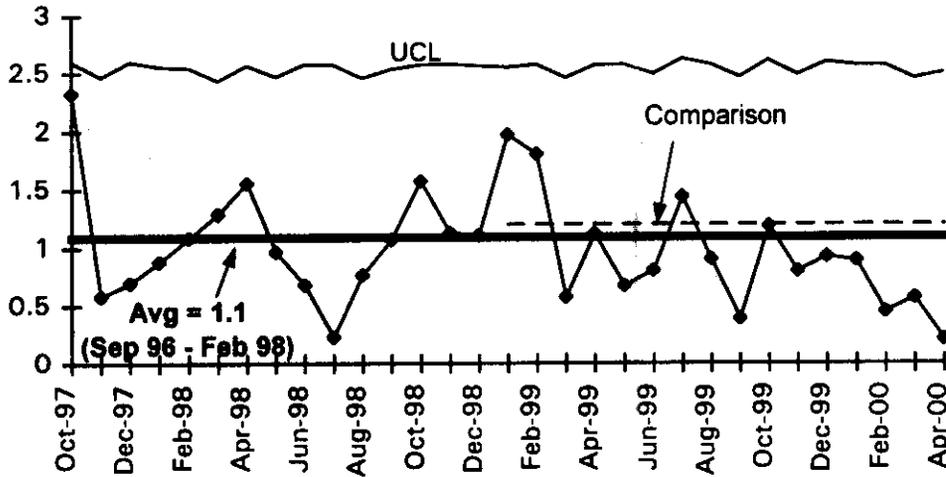
Rates have been stable for over two years. This safety performance plateau has been recognized by the safety organizations, and Fluor Hanford kicked off its Integrated Safety Approach initiative on December 6, 1999 in order to take safety performance to a new level. This initiative focuses on the "people side" of accident prevention.

Total OSHA Recordable Case Rate



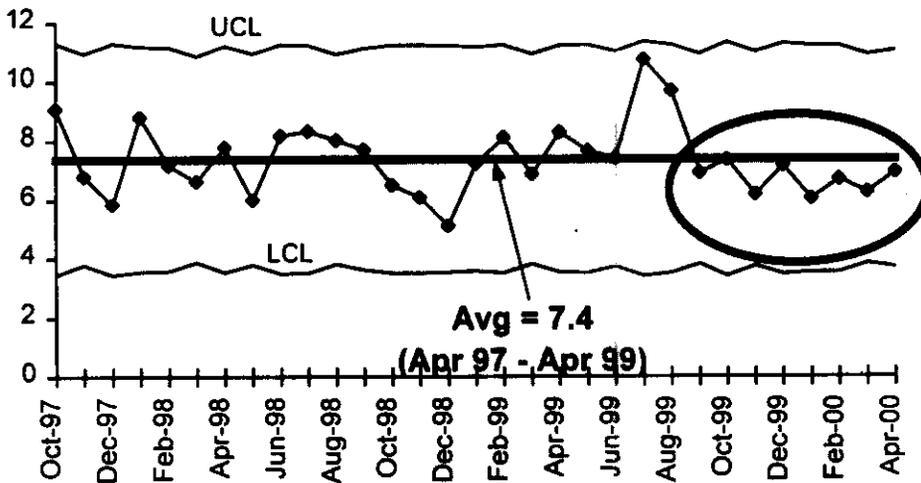
FY 1999 = 2.6
 FY 2000 = 1.9
 Contractor Comparison Average = 32.7 (CY99)
 This indicator had a nearly significant decrease in February through April. If May is similar, it will be four months in a row at one standard deviation below average. Consolidation of the projects under Fluor Hanford, and actions taken at the end of FY 1999 to look at injury sources appears to be having an effect.

OSHA LOST/RESTRICTED WORKDAY CASE RATE



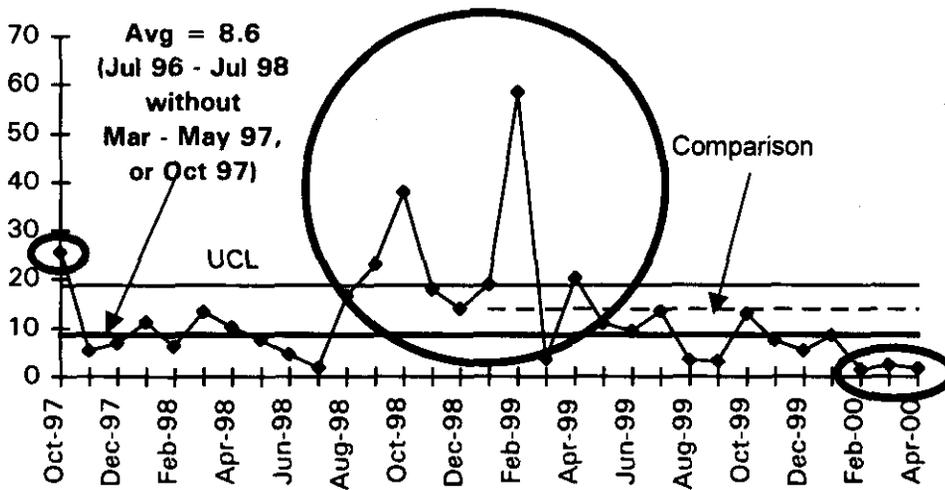
FY 1999 = 1.1
 FY 2000 to date = 0.7
 Contractor Comparison
 Average = 1.2 (CY99)
 The data have been stable for the past two years. Most of the recent months (over the past year) have been well below average, a hopeful sign of potential improvement.

First Aid Case Rate



First Aid Rate undergoes seasonal cycles. Increases occur in warmer weather due to insect and animal encounters, and due to wind related minor injuries. First Aid case rate has remained relatively stable, a good check that injuries are not being under-reported. There are currently 8 months in a row below average, due to the normal winter decrease.

DOE Safety Cost Index



FY 1999 = 17
 FY 2000 to date = 5.5
 Contractor Comparison
 Average = 13.9 (CY99)
 There has been a long
 term cycle over the past
 three years of decreases
 for 7 to 9 months, followed
 by increases. Two of the
 past three months have
 been two standard
 deviations below average.
 However, recent data may
 gain further lost or
 restricted days.

CRITICAL TECHNICAL ISSUES

Nothing to report.

MANAGEMENT COMMITMENT MILESTONES AS OF MAY 31, 2000

Milestones	Due Date	Forecast Date	Actual Date	Status / Comments
Nuclear Materials Stabilization				
Submit FPF Tank 361 Core Sample Data to EPA (M-015-37B)	5/31/00	5/31/00	5/31/00	Complete
Begin Stab. of Pu Solutions via Mg(OH) ₂	7/31/00	9/05/00		
Spent Nuclear Fuels				
Complete KW Cask Facility Mods (M-034-14A)	2/29/00	2/29/00	2/29/00	Complete
Commence Phased Startup Initiative Hot Testing	5/31/00	7/13/00		
Complete Phased Startup Initiative Testing	8/31/00	8/31/00		
Waste Management				
Initiate TRU Shipment to WIPP	5/31/00	6/19/00		

CRITICAL FEW PERFORMANCE MEASURES

Performance Measure	Status as of April 30, 2000
Spent Nuclear Fuel:	
Measure - Amount of fuel removed	
Declaration of Readiness to move Spent Nuclear Fuel	Green
Phased Startup Initiative Phases I & II	Red
Measure - Amount of SNF Stabilized	NA FY 2000
324/327 Building Deactivation:	
Measure - Number of buildings dispositioned	Green
Waste Management:	
Measure - Adequacy of waste management services support	
Number of analytical equivalent units (AEU's) analyzed	Green
Through-put efficiency of effluent treatment facility (ETF) gpm	Green
Number of 242-A evaporator campaigns completed	Green
Measure - Retrieve and ship TRU offsite	
Number of drums retrieved	Green
Number of shipments to WIPP	Green
Measure - MLLW Treated (m3)	Green
Measure - MLLW Disposed (m3)	Green
Measure - Clear three T-Plant canyon deck sections	Green
Measure - Remove two PUREX separation towers	Green
Plutonium Stabilization:	
Measure - Pu metal/oxides/other types dispositioned (items)	Yellow

Yellows noted above are behind schedule but recoverable, action plans in place. Red is either missed or unrecoverable. Details can be found in the Project Sections.

KEY INTEGRATION ACTIVITIES

The following are the key technical integration activities that are currently underway and cross project/contractor lines. These activities are being addressed by inter-discipline and inter-project groups and demonstrate that Hanford Site contractors are working together to accomplish the EM Clean up mission.

- Spent nuclear fuel (SNF) final disposition interface activities, including OCRWM QA Program implementation, ongoing with National SNF Program.
- SNF Project fuel removal acceptance criteria and conceptual design reviews for 324 Building (B Cell) ongoing with River Corridor Project.
- K Basins sludge removal and Shippingport (PA) Pressurized Water Reactor Core 2 SNF removal implementation activities ongoing with Waste Management.
- WM working with DOE-RL, DOE-HQ and other Sites to develop and define Hanford's role in disposing of waste from other sites. Hanford's role as one of the identified LLW/MLLW disposal sites for the Complex is yet to be fully defined.
- WM working with PNNL, EM-50 and Mixed Waste Focus Area (MWFA) to obtain funding in support of mixed waste processing.
- Nuclear Material Stabilization Project continues working with PNNL on activities associated with the $Mg(OH)_2$ process in order to accelerate the plutonium solution stabilization process, and polycube stabilization issues (gathering data for the SAR).
- Analytical Services continues to support BNFL efforts to establish required analytical support for glassification operations.
 - In the longer term, BNFL could utilize unused space at WSCF for cold run test support and process laboratory analytical equipment testing.
 - The 222-S laboratory, with some refurbishment might become a low cost option to a new large-scale laboratory associated with the glassification facility.
- Landlord is establishing a Hanford Site Planning Advisory Board made up of cooperating agencies and Tribal representatives.

UPCOMING PLANNED KEY EVENTS

The following Key events are extracted from the authorized baseline and are currently expected to be accomplished during the next eight months. Most are Enforceable Agreement (EA), HQ or DNFSB Milestones.

Waste Management:

- Complete Waste Isolation Pilot Project (WIPP) Certification of Hanford's Transuranic (TRU) Project and initiate TRU shipments in June 2000.

- Treat 1,160 cubic meters (includes 100 cubic meters stretch) of MLLW at ATG by August 2000; dispose of Land Disposal Restriction compliant waste by September 2000.
- 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.
 - Complete entire deck clearing by the end of FY 2001.

Spent Nuclear Fuels:

- Complete integrated subsystem testing of the Cold Vacuum Drying facility by the end of June.
- Deliver first shipment of Multi-Canister Overpack (MCO) baskets by June 1, 2000.
- Complete Cask Loadout System (CLS) startup testing by mid-June 2000.
- Begin DOE Operational Readiness Review (ORR) for fuel removal by mid-September 2000.
- Begin K West Basin fuel removal, drying & storage operations by November 30, 2000.

River Corridor Project:

- Complete all B Plant closeout activities by June 2000.
- Complete ISMS verification of Phase II readiness activities by June 2000.
- Issue the final report for the 300 Area Waste Acid Treatment System (WATS) Resource Conservation and Recovery Act (RCRA) Closure Activities by September 2000.
- Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment by November 2000.

Nuclear Materials Stabilization:

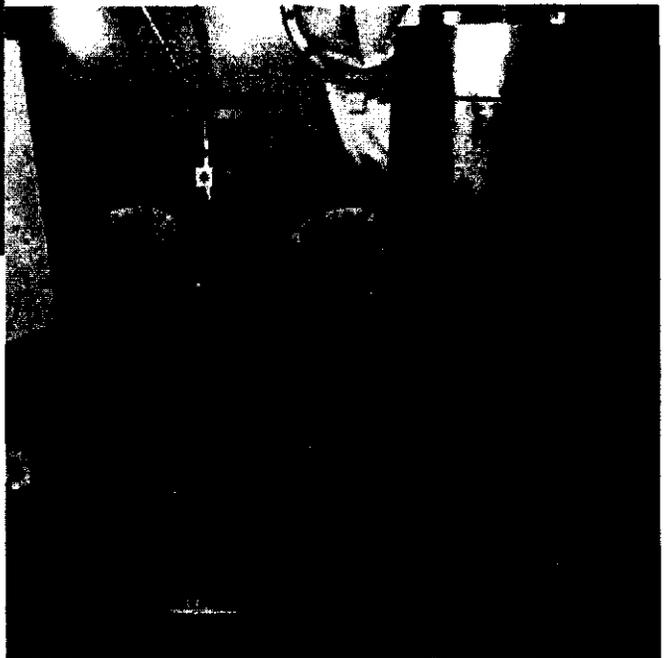
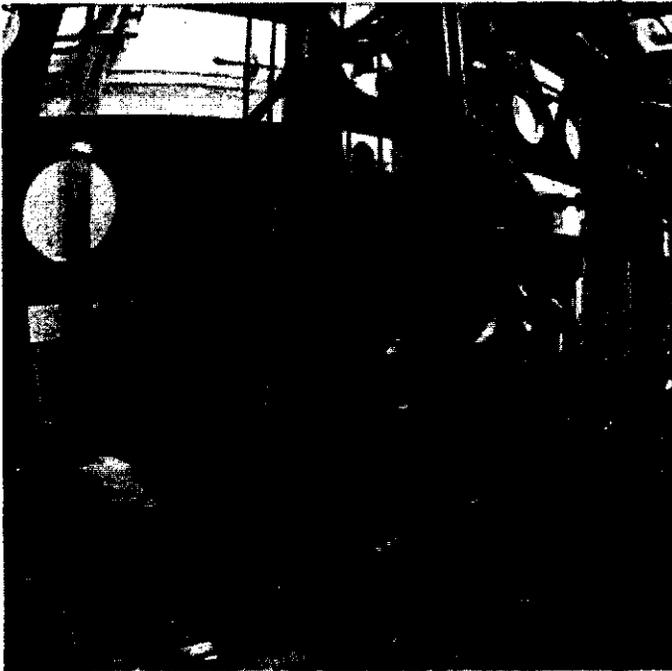
- Begin Pu solution stabilization via $Mg(OH)_2$ in the 4th quarter of FY 2000.
 - Complete ORR and training activities.
- Startup Cementation operations in the 4th quarter of FY 2000.
- Continue metal stabilization processing in June 2000.

Landlord

- Complete Definitive Design for Project L-309, "Replace Portion of Main Water Lines," which replaces approximately 1,500 feet of the sanitary water lines in 200 East Area by April 28, 2000.
- Complete Definitive Design for Project L-310, "Distribution Water Line" which replaces a 2.5-mile section of the 24" export water line in the 200 West Area by May 26, 2000.

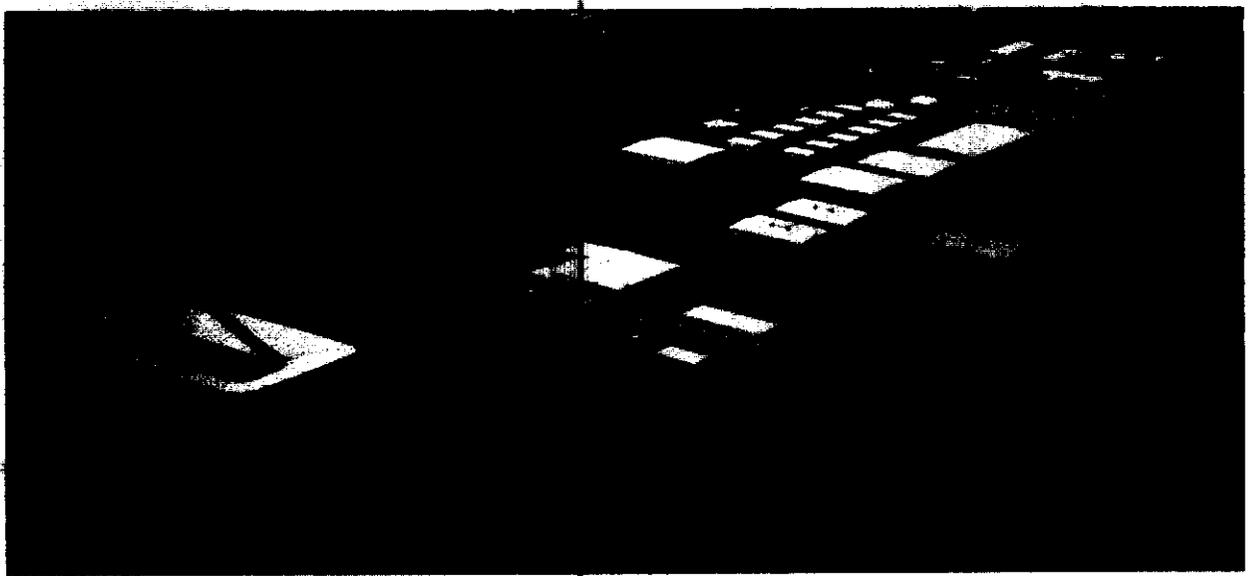
THE PLATEAU

Transitioning the central plateau for long-term waste management is a key part of the Hanford vision. Determining the disposition of the "canyon" facilities, deactivating the Plutonium Finishing Plant and disposing of solid waste are the desired outcomes. Projects included in The Plateau are Waste Management, Analytical Services, and Nuclear Material Stabilization.



SECTION B:1

WASTE MANAGEMENT



PROJECT MANAGERS

H. E. Bilson, RL
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E. S. Aromi Jr., WMH
Phone: (509) 372-1033

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.

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 Date contained herein is as of April 30, 2000. Other information is updated as of May 19, unless otherwise noted.

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

ACCOMPLISHMENTS

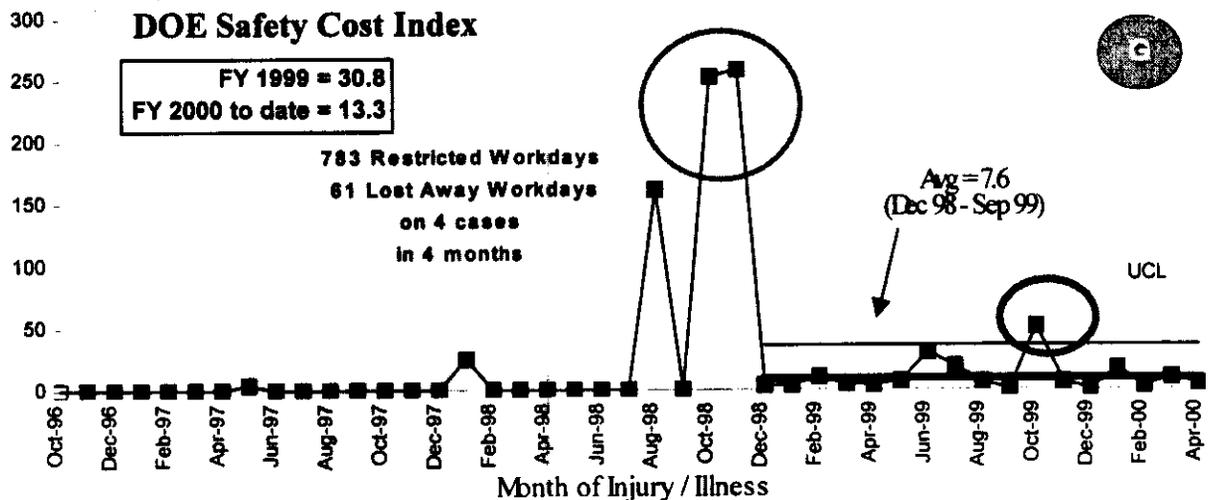
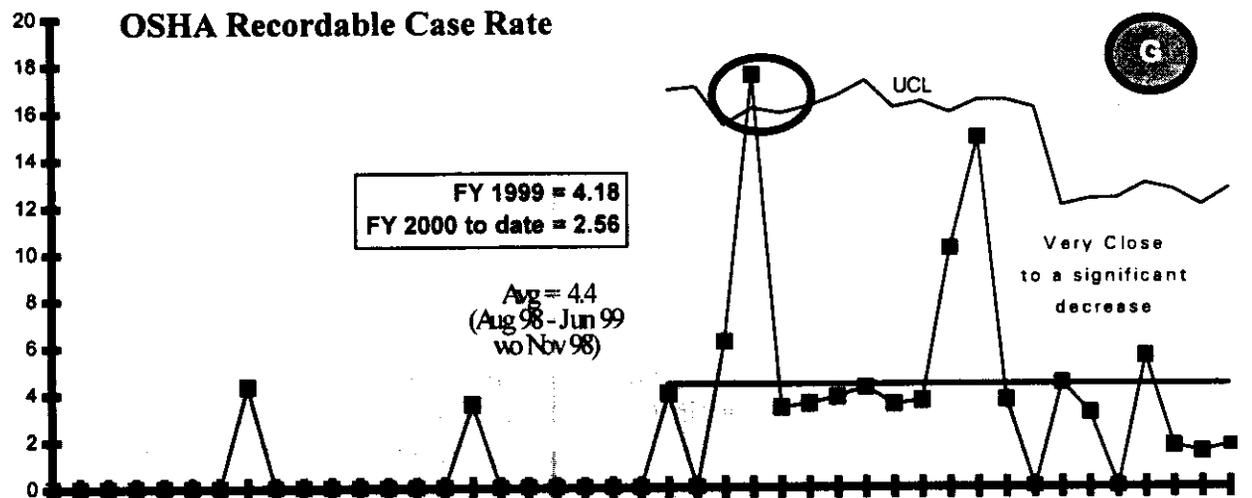
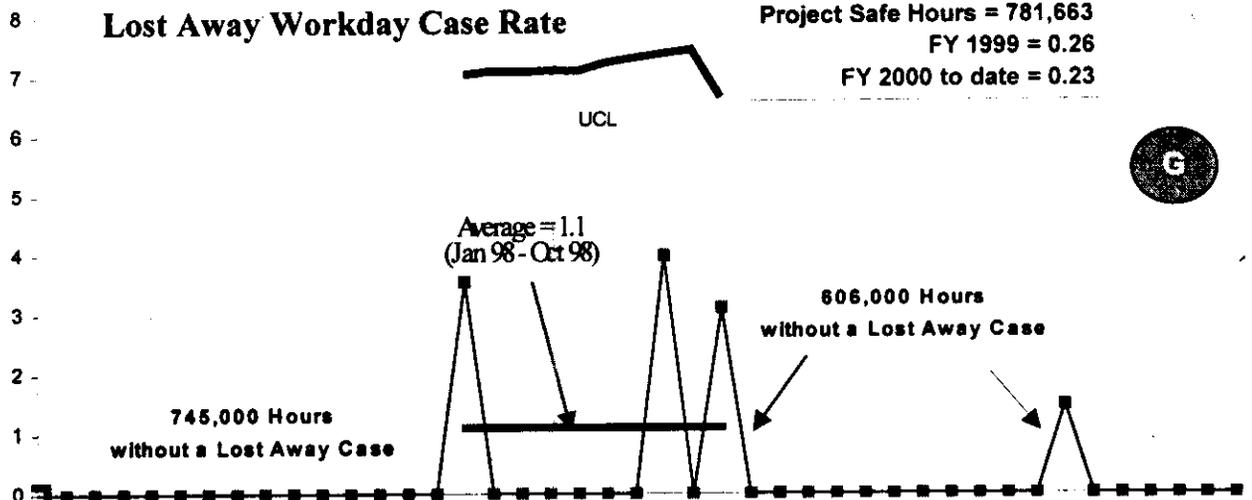
- New Mexico Ecology Department (NMED) approval of the Hanford Audit Report is anticipated in the middle of June 2000. As such, the first shipment of TRU waste is scheduled for June 19, 2000. Twelve containers have been readied for the first shipment and additional containers continue to be prepared.
- Shipped 360 containers totaling 848 cubic meters of mixed low-level waste to ATG, which represents 73% of the FY 2000 target. This waste volume represents an effective Central Waste Complex (CWC) storage volume reduction of 1,437 cubic meters. Allied Technology Group (ATG) has treated 115 containers totaling 455 cubic meters of waste, which represents 39% of the FY 2000 target. Hanford has accepted back for disposal, 95 containers totaling 250 cubic meters, which also represents 39% of the FY 2000 target. (All data as of May 19, 2000).
- Completed nondestructive examination (NDE) on 485 drums, radiography on 27 boxes, non-destructive assays of 534 drums, processing of 29 drums through the Low Level Waste repackaging/compaction glovebox, visual examinations of 25 transuranic (TRU) drums and repackaged two Waste Isolation Pilot Plant (WIPP) TRU drums in the TRU glovebox at the Waste Receiving and Processing (WRAP) facility through May 11, 2000. (Performance during current period on plan.)

- The 242A Evaporator campaign was completed on May 2, 2000, seven days ahead of schedule. The campaign processed 1.3 million gallons of high-level radioactive waste with an all-time high operational efficiency of 99.7%. Processed 7.8 million gallons (through May 15) of wastewater through the 200 Effluent Treatment Facility 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.

SAFETY

The project's safety rates are stable. The project has exceeded 750,000 safe hours.

PHMC Environmental Management Performance Report - June 2000
Section B: 1 - Waste Management

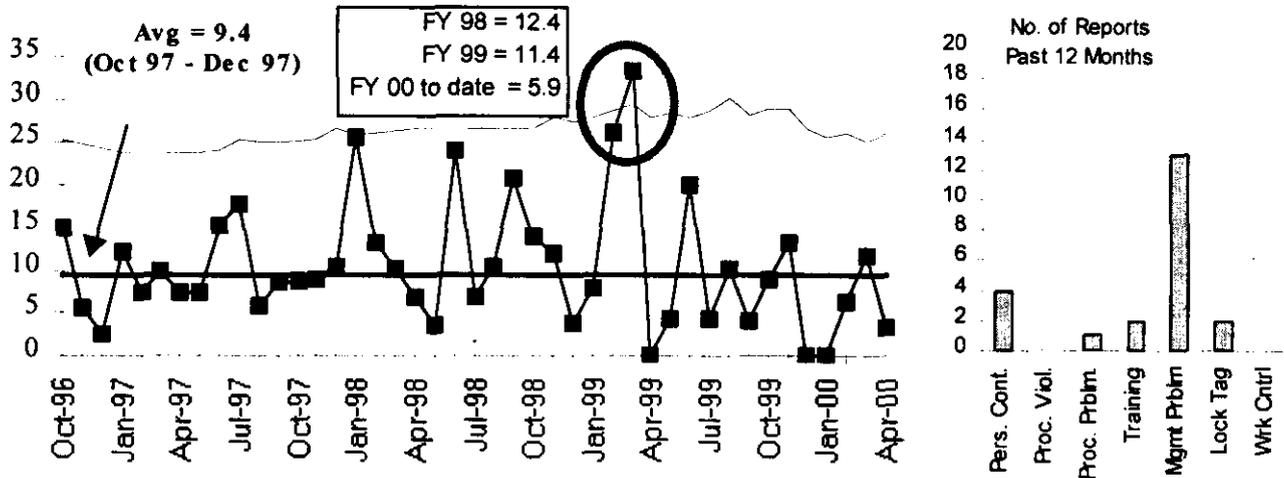


CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Events per 200,000 hours

Green



ISMS STATUS

Green

Completed activities:

- The DOE ISMS Phase I verification team completed their review, including interviewing of individual employees against a set of CRADS (Criteria and Review Approach Document). All CRAD objectives were met. Several Noteworthy Practices were found, as well as Opportunities for Improvement.
- Session Four Training, "ISMS Verification and Your Role" was held for all but a few employees in WMP / ASP. This training should help the activity level workforce prepare for Phase II verification.
- Authorization Agreements are completed however, they remain within the signature stage of the authorization process.
- Presentations detailing our readiness for Phase II verification were made to a combined WMP / ASP Senior Management Review Board (SMRB). Both Projects signed letters to FH, declaring readiness to proceed with Phase II verification.

Planned Actions:

- Complete Training Session 4 (ISMS Verification and Your Role).
- Phase II verification is currently scheduled to begin June 12, 2000 and continue through June 21, 2000.
- Revise procedures, plans and documents to address Phase I verification Opportunities for Improvement.
- Prepare Projects for, and support DOE Phase II efforts.
- Generate and implement out-year plan to sustain and maintain ISMS effort.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No Breakthroughs or Opportunities for Improvement are identified at this time.

UPCOMING ACTIVITIES

WIPP Certification and Waste Shipments — Complete Waste Isolation Pilot Project (WIPP) Certification of Hanford's Transuranic (TRU) Project and initiate TRU shipments in June 2000.

RH TRU PMP — Issue Project Management Plan (PMP) for RH TRU in June 2000 to meet M-91 milestone.

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.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Waste Management	\$57.1	\$57.1	\$0.0

There is no cost variance. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Waste Management	\$57.1	\$60.3	-\$3.2

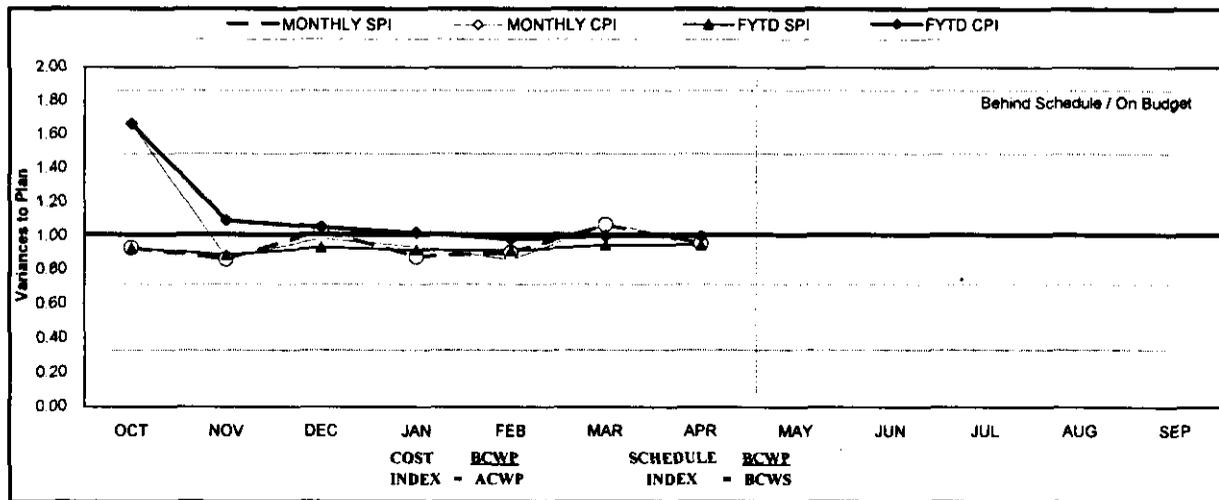
The \$3.2 million (5 percent) unfavorable schedule variance is within established thresholds. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES CUMULATIVE TO DATE STATUS - (\$000)

		FYTD										
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC	
PBS WM03 WBS 1.2.1	Solid Waste Storage & Disposal	\$ 20,688	\$ 20,613	\$ 18,607	\$ (75)	0%	\$ 2,006	10%	\$ 36,451	\$ 34,691	\$ 34,691	
PBS WM04 WBS 1.2.2	Solid Waste Treatment	\$ 16,009	\$ 15,171	\$ 17,686	\$ (838)	-5%	\$ (2,515)	-17%	\$ 30,124	\$ 34,273	\$ 34,273	
PBS WM05* WBS 1.2.3	Liquid Effluents - 200/300 Area	\$ 15,828	\$ 14,773	\$ 13,948	\$ (1,054)	-7%	\$ 825	6%	\$ 29,271	\$ 26,636	\$ 26,636	
PBS TP02 WBS 1.4.2	WESF	\$ 7,786	\$ 6,566	\$ 6,907	\$ (1,220)	-16%	\$ (341)	-5%	\$ 14,339	\$ 12,417	\$ 12,417	
Total		\$ 60,310	\$ 57,123	\$ 57,148	\$ (3,187)	-5%	\$ (25)	0%	\$ 110,184	\$ 108,017	\$ 108,017	

* PBS WM05 includes the 300 Area Liquid Effluent, which is part of the River Corridor Project.

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



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					
MONTHLY CPI	1.66	0.87	0.98	0.94	0.86	1.07	0.99					
FYTD SPI	0.93	0.89	0.93	0.92	0.91	0.95	0.95					
FYTD CPI	1.66	1.09	1.05	1.02	0.98	1.00	1.00					
MONTHLY BCWS	\$ 6,641	\$ 9,616	\$ 7,269	\$ 8,331	\$ 8,862	\$ 10,686	\$ 8,906	\$ 10,979	\$ 8,170	\$ 8,091	\$ 10,757	\$ 11,877
MONTHLY BCWP	\$ 6,163	\$ 8,277	\$ 7,499	\$ 7,291	\$ 7,973	\$ 11,406	\$ 8,514					
MONTHLY ACWP	\$ 3,703	\$ 9,520	\$ 7,619	\$ 7,789	\$ 9,270	\$ 10,685	\$ 8,562					
FYTD BCWS	\$ 6,641	\$ 16,257	\$ 23,526	\$ 31,857	\$ 40,719	\$ 51,404	\$ 60,310	\$ 71,289	\$ 79,459	\$ 87,550	\$ 98,308	\$ 110,184
FYTD BCWP	\$ 6,163	\$ 14,440	\$ 21,919	\$ 29,230	\$ 37,203	\$ 48,609	\$ 57,123					
FYTD ACWP	\$ 3,703	\$ 13,223	\$ 20,842	\$ 28,631	\$ 37,901	\$ 48,586	\$ 57,148					

COST VARIANCE ANALYSIS: (\$0.0M)

WBS/PBS

Title

1.2.1/WM03

Solid Waste Storage & Disposal

Description/Cause: The favorable cost variance of \$2.0M (10 percent) is due to vacancies and an April variance distribution of indirect costs.

Impact: No impact.

Corrective Action: Implementation of Baseline Change Requests in May, utilizing underruns and deletions, will reduce the variance.

1.2.2/WM04

Solid Waste Treatment

Description/Cause: The unfavorable cost variance of \$2.5M (17 percent) is due to Canyon Deck Clean Off workscope being performed under an Advanced Work Authorization (AWA) for T Plant support to accelerated SNF sludge removal. In addition, there are retooling and TRU project recertification costs caused by the new WIPP permit changes. Installation of the 2706-T greenhouse to support production and additional minimum safe maintenance activities also contributed to the variance.

Impact: No impact.

Corrective Action: A BCR for the T Plant was approved on 6/1. A BCR for the TRU Project additional workscope has been submitted.

1.2.3.1/WM05

Liquid Effluents

Description/Cause: The favorable cost variance of \$0.8M (6 percent) is within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

1.4.2/TP02

WESF

Description/Cause: The unfavorable cost variance of \$0.3M (5 percent) is due to unplanned activities for the Ultrasonic Test (UT) of Cesium capsules and electrical system upgrades.

Impact: No impact.

Corrective Action: The variance will be managed in the Corrective Maintenance budget with no impact on scope.

SCHEDULE VARIANCE ANALYSIS: (- \$3.2M)

WBS/PBS

Title

1.2.1/ WM03

Solid Waste Storage & Disposal

Description /Cause: The unfavorable schedule variance is less than 1%, which 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 \$0.8M (5% percent) is within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

1.2.3.1/ WM05 Liquid Effluents

Description /Cause: The unfavorable schedule variance of \$1.1M (7% percent) is within the established thresholds.

Impact: No Impact.

Corrective Action: No corrective action required.

1.4.2/ TP02 WESF

Description /Cause: The unfavorable schedule variance of \$1.2M (16% percent) is due to the deferral of the FSAR to FY 2002 to resolve DOE funding reductions.

Impact: No Impact.

Corrective Action: A BCR has been approved and will be implemented in the May baseline.

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.

Certification of Hanford's TRU Project is necessary to initiate waste shipment to WIPP. Continue working with the Carlsbad Area Office, the Environmental Protection Agency (EPA) and the New Mexico Environment Department (NMED) to achieve WIPP certification of Hanford's TRU Project and initiate waste shipment to WIPP.

The State of Washington Department of Ecology issued a Final Determination (FD) regarding the "recent" dispute over the scope of the annual Land Disposal Restriction (LDR) report and TPA Milestone M-26-01. This FD contains a number of requirements for "improvement" of the LDR report, i.e. format and content changes to the annual LDR report as well as business conduct changes (e.g., storage compliance assessment program). DOE-RL subsequently issued an advanced work authorization to FH to complete an Implementation Plan

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and Baseline Change Request for a Hanford Mixed Waste Management Program and incorporating the Final Determination requirements into that program. Progress to date includes:

- Conducting multi-contractor team meetings to define scope and issues associated with this effort.
- Drafted definition of "waste stream" for inclusion in the LDR report and MW program.
- Defined path forward, budget estimate and schedule for development of the implementation plan.
- Drafted white paper regarding the proposed scope for both the 2000 and 2001 LDR submittals.
- Finalized draft Bases Of Estimates for proposed new scope.
- Drafted the Implementation Plan and distributed it for review.
- Conducted multi-contractor team meetings to define the scope of the new storage compliance assessment program.

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-2000-002	1/5/00	Waste Management FY 2000 Mandated Funds Reduction	\$ (3,042)			02/17/00	03/29/00	05/15/00	To be implemented in May Baseline
FSP-2000-018	1/25/00	WESF Mandated Funds Reduction	\$ (1,100)			02/29/00	02/29/00	05/15/00	To be implemented in May Baseline
WM-2000-003	2/8/00	T-Plant Canyon Deck Clean off and PWR Fuel Removal	\$ 3,085			4/13/200	04/13/00	06/01/00	To be implemented in June Baseline
WM-2000-004	2/8/00	WMP Stretch Goals	\$ 1,214			05/11/00	06/01/00		At RL
WM-2000-005	3/21/00	WMP FY 2000 Repricing Impacts	\$ 653			05/15/00	05/15/00	N/A	To be implemented in May Baseline
WM-2000-006	3/21/00	TRU Project Rebaselining	\$ -			06/08/00	06/08/00		At RL
WM-2000-008	4/13/00	LDR	\$ -			TBD			Draft in process
WM-2000-009	4/13/00	616 Transition	\$ 87			06/06/00	N/A		To be implemented in June Baseline
WM-2000-011	4/27/00	CSERS/Weed & Pest Allocation	\$ 822			05/31/00	06/01/00	N/A	To be implemented in June Baseline
FSP-2000-030	3/21/00	WMP FY 2000 Repricing Impacts	\$ (653)			05/15/00	05/15/00	N/A	To be implemented in May Baseline
ADVANCE WORK AUTHORIZATIONS									
AWA	2/25/00	TRU Retrieval/TRU PMP	\$ 750					05/31/00	Acceleration of scope
AWA	5/8/00	LDR	\$ 165					5/8/00	Acceleration of scope

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	1	0	0	0	0	1	0	2
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	9	0	9
Total Project	1	0	0	0	0	10	0	11

Tri-Party Agreement / EA Milestones

Number	Milestone Title	Status
M-91-03 (WMH-00-001)	Issue TRU/TRUM Waste PMP	due 06/30/00 — On schedule (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.	
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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 1.4.2	RL	Complete Hot Cell Deactivation WESF Facility (A-E)	03/31/99	09/30/00
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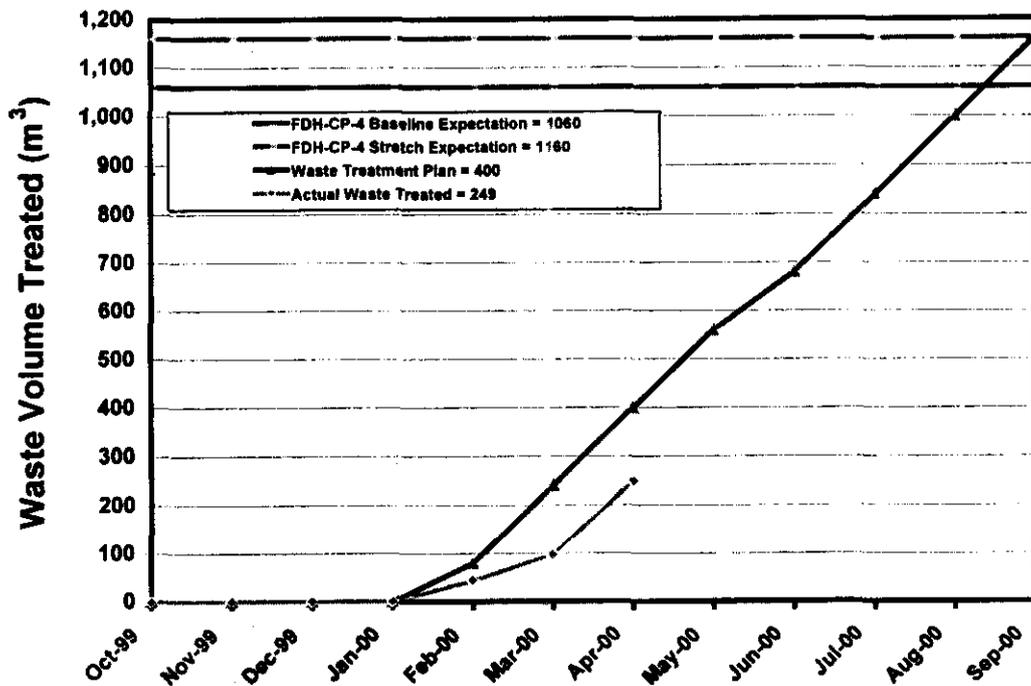
Cause: This milestone is not complete due to not being supported at the current funding level.

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

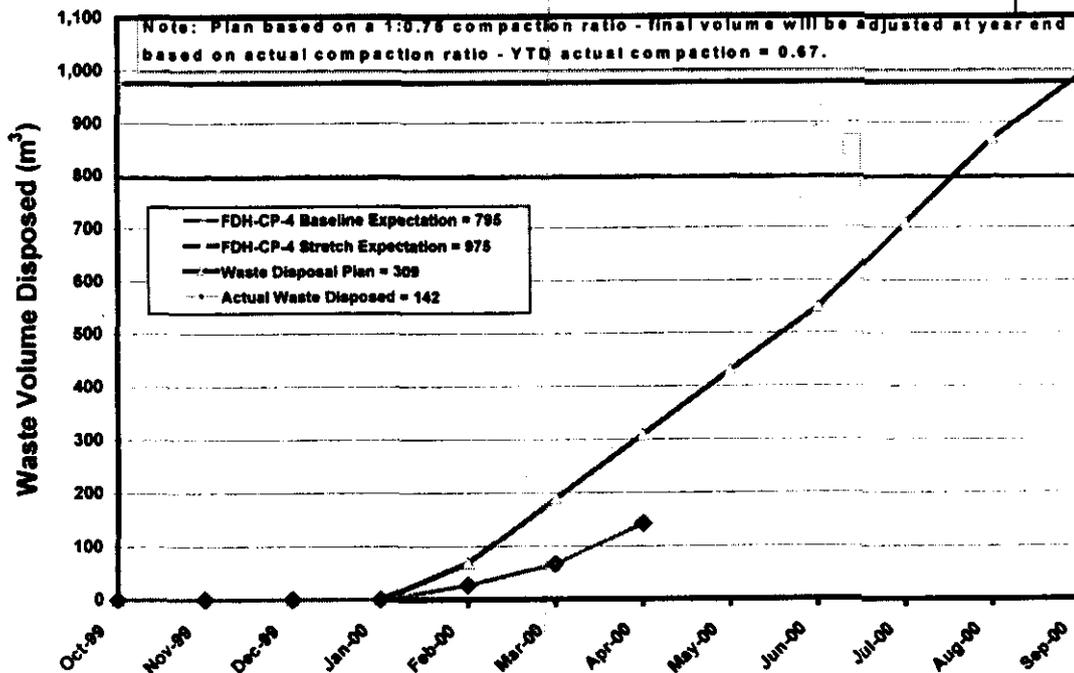
Yellow



Action Plans: Ramping-up to meet stretch expectation. Recovery expected by the end of May 2000.

MLLW DISPOSAL

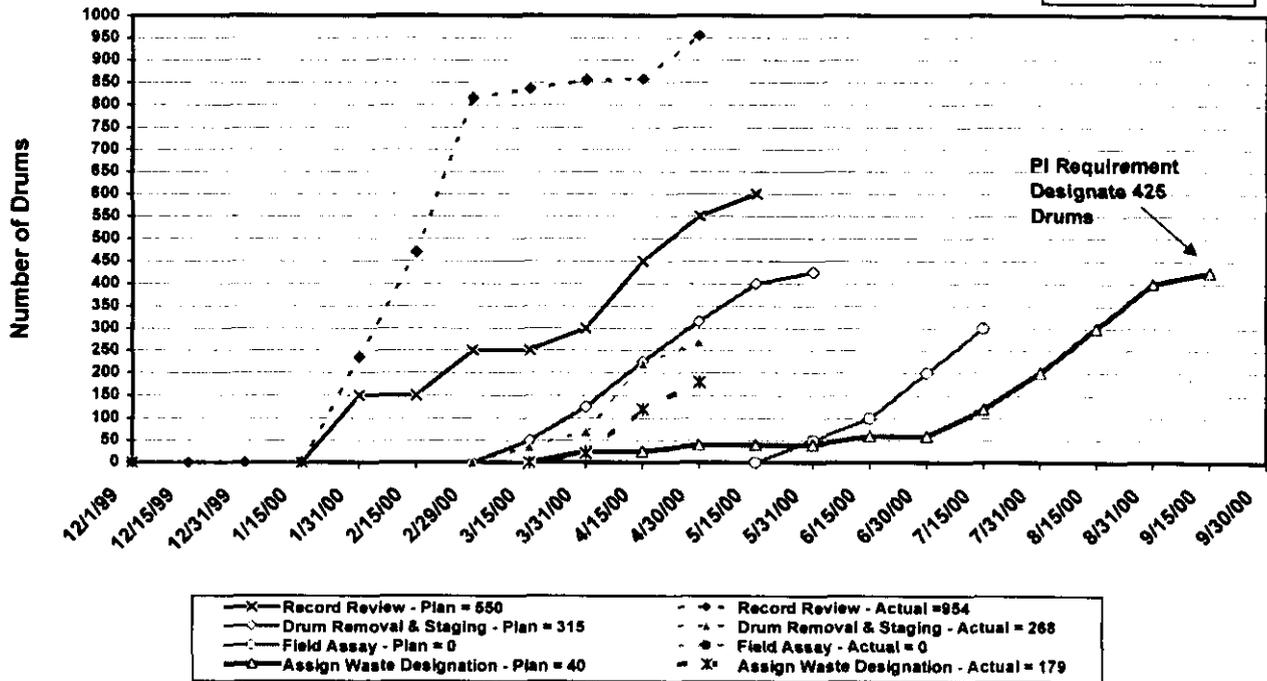
Yellow



Action Plans: Ramping-up to meet stretch expectation. Recovery expected by the end of May 2000.

TRU RETRIEVAL

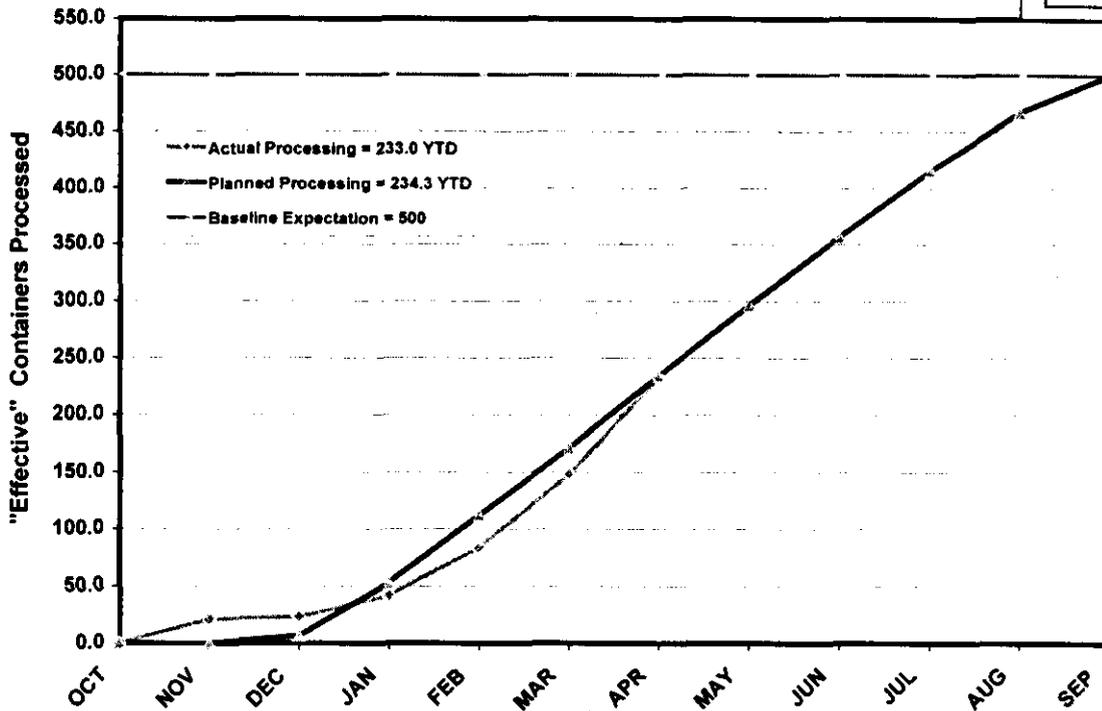
Green



Action Plans: On track to meet the new stretch goal (425) for drums designated.

TRU CONTAINER PROCESSING

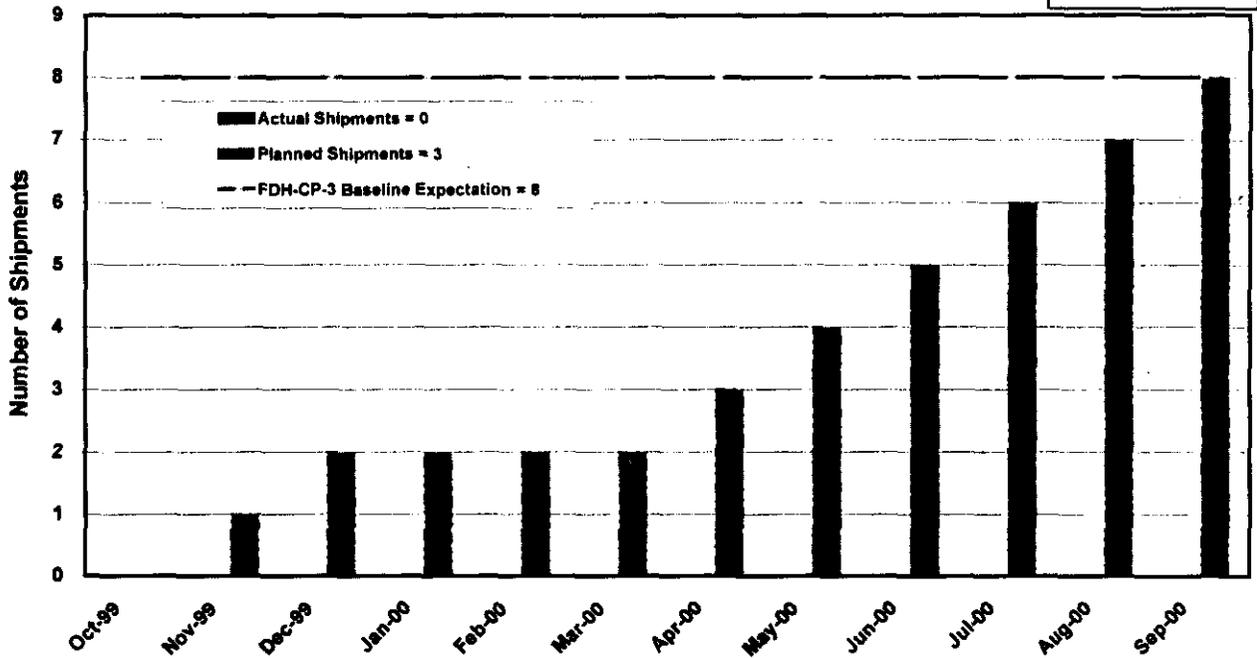
Green



Action Plans: On track.

TRU SHIPMENTS

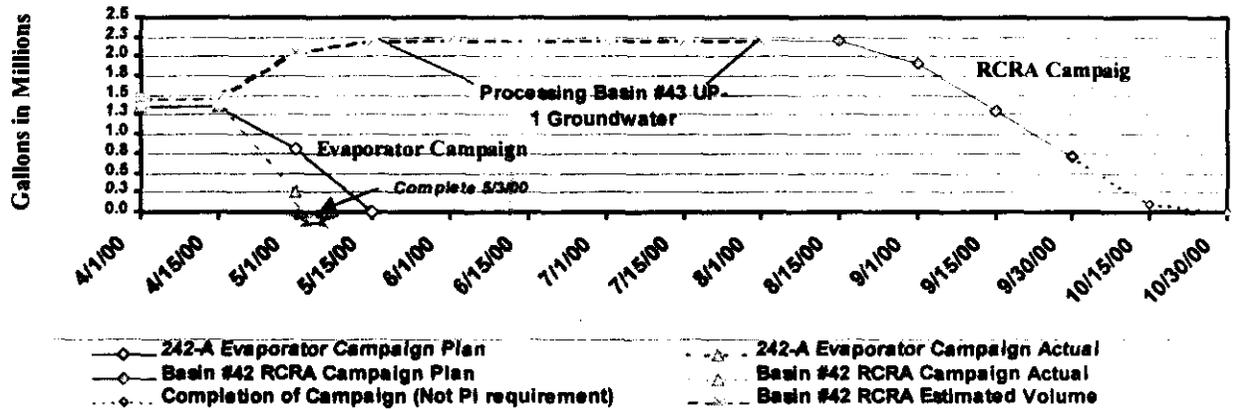
Yellow



Action Plans: Change required based on additional CAO WIPP Certification requirements. Initial shipment delayed until mid-June 2000.

Green

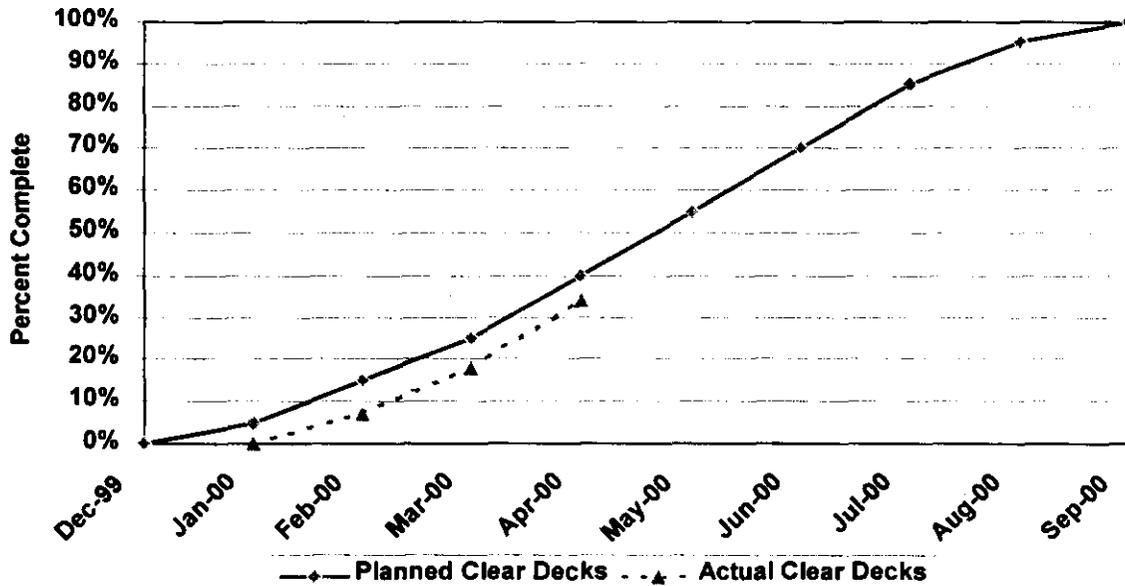
LIQUID WASTE PROCESSING



Action Plans: 242A Evaporator campaign completed 5/2/2000. RCRA campaign scheduled to begin mid-August 2000. Change agreement completed 5/4/2000 and PI revision expected in May 2000.

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

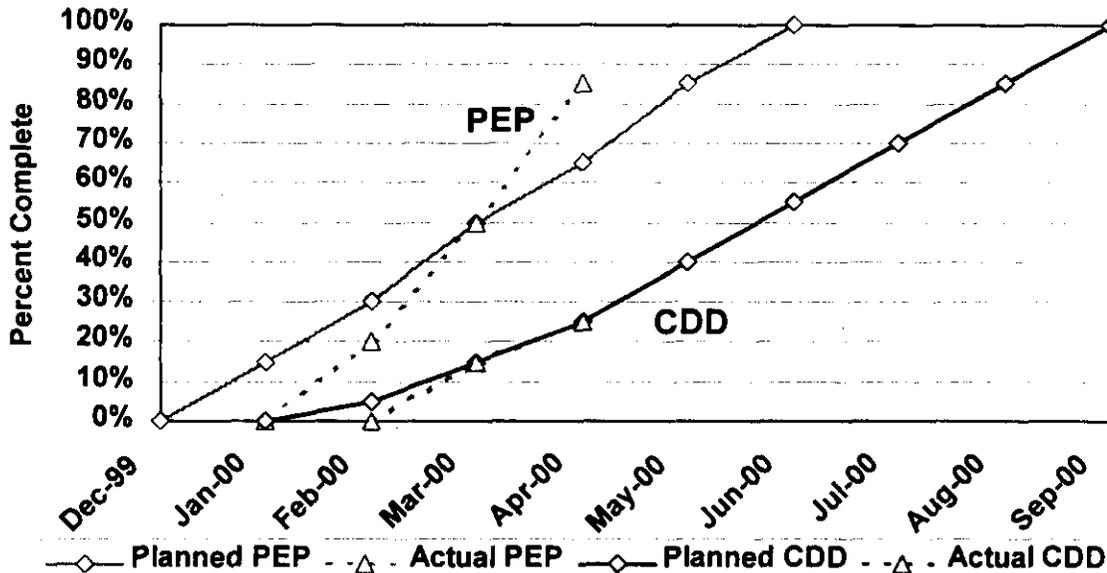
Green



Action Plans: On track for completion in September 2000.

T PLANT PEP AND CDD (RC-4-1-1)

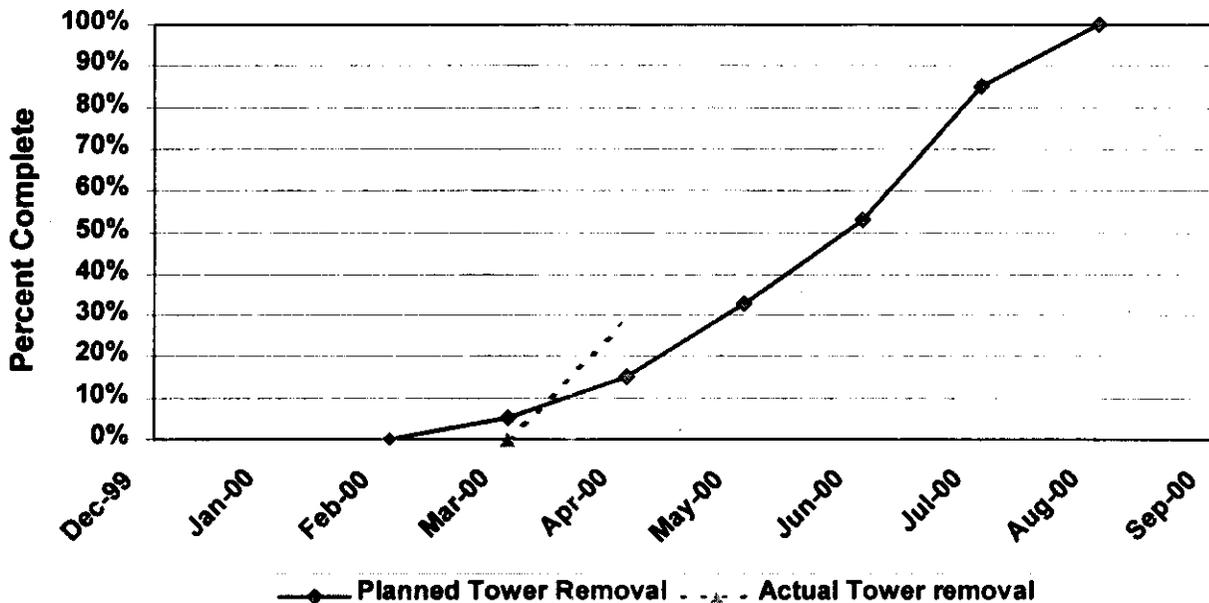
Green



Action Plans: On track for Project Execution Plan (PEP) completion in June 2000 and completion of the Conceptual Design Document (CDD) in September 2000.

T PLANT TOWER REMOVAL (RC-4-1-2)

Green



Action Plans: On track for removal of two PUREX Towers from the T Plant canyon by September 2000.

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, WDOE 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.
- 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.

SECTION B:2

ANALYTICAL SERVICES (222-S, HASP, WSCF)



PROJECT MANAGERS

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

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

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 April 30, 2000. Other information is updated as of May 19, unless otherwise noted.

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

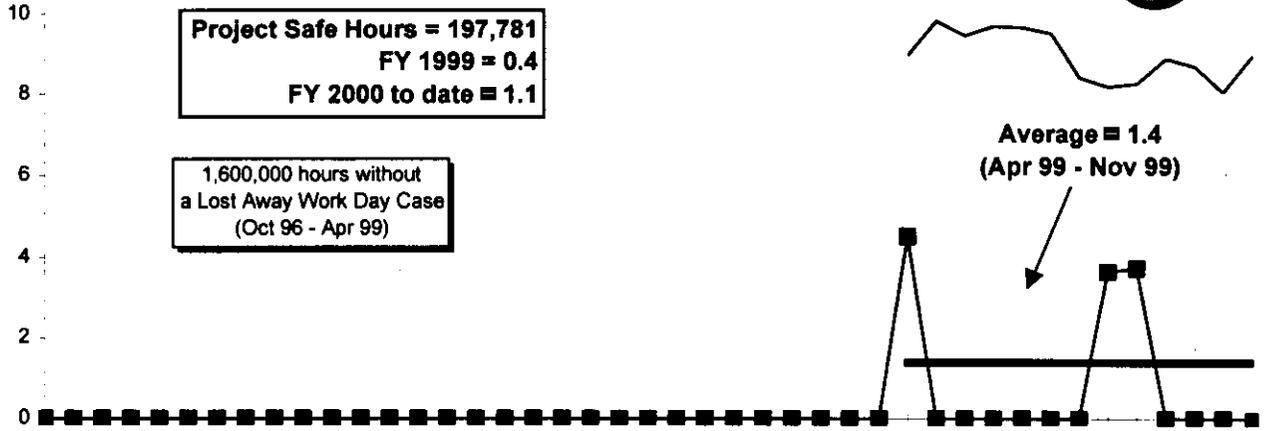
ACCOMPLISHMENTS

- A total of 6.7 Analytical Equivalent Unit (AEUs) processed at the 222-S Laboratory through April 2000 (FYTD) versus the planned 6.5 AEUs in support of the RPP (TWRS) tank characterization program. Production through May 19 is 7.7 AEUs. On track to meet the 11 AEU commitment.
- Supported completion of the 242A Evaporator campaign that was completed on May 2, seven days ahead of schedule.
- Performed 11,000 analyses (FYTD) through May 17 at Waste Sampling and Characterization Facility (WSCF) for a wide variety of customers as planned.
- Procedures, methods, equipment, and training were significantly revised to meet the new Waste Isolation Pilot Plant (WIPP) permit from the State of New Mexico. Supported closure of the Corrective Action Reports (CARs) from the Carlsbad Area Office audit of the Hanford Transuranic (TRU) Project. Gas Chromatograph (GC) Mass Spectrometer #7 successfully passed the Preconceptual Design Phase (PDP) (WIPP) and the operating procedure was declared WIPP qualified. GC Mass Spectrometer # 7 is a new, automated gas chromatograph and will support vapor analysis for drums to be shipped to Carlsbad.
- Hanford Analytical Services Program (HASP) developed a FY 2001 Instrument Capital Plan for both 222-S and WSCF, based on instrument age, instrument utilization rate, efficiency, and sample forecast. A national survey on instrument utilization rates was obtained and compared to the Analytical Services (AS) laboratories. The Instrument Capital Plan will support development of the FY 2001 baseline.
- Analytical Services won awards for booth displays in two categories at the Health and Safety Expo 2000: "Most Interactive" and "Kid's Favorite." This was out of a possible total of five awards given for booth displays.

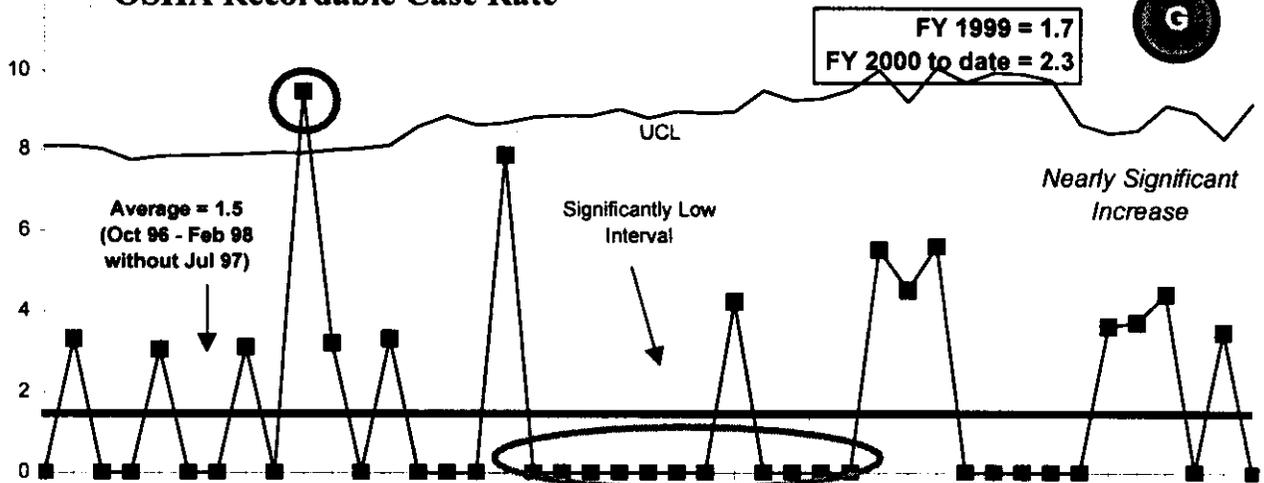
SAFETY

In April, there were no OSHA recordable cases, no lost/restricted days and four first aid cases. The project continues to focus on safety and personal and team accountability. The five-month trend is a positive indication for performance during the second half of FY2000.

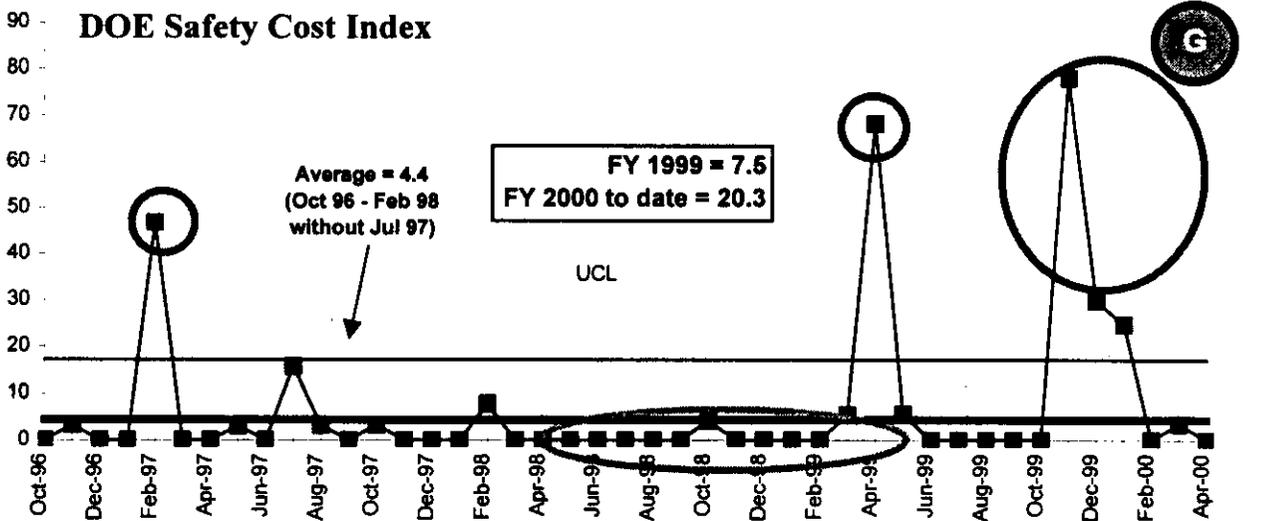
Lost Away Workday Case Rate



OSHA Recordable Case Rate



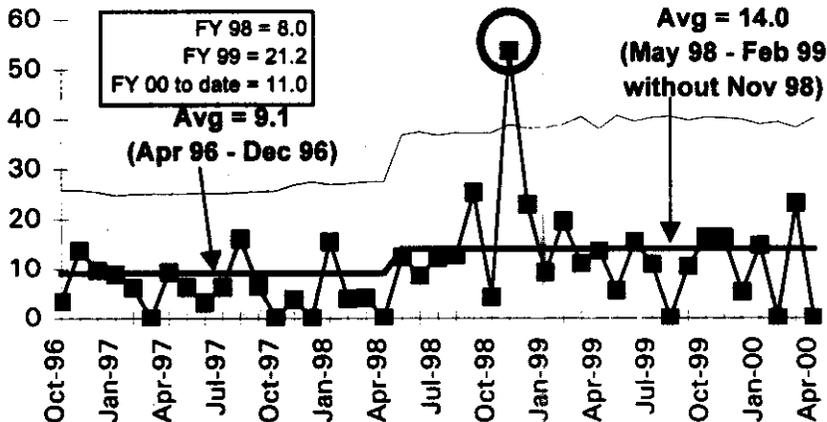
DOE Safety Cost Index



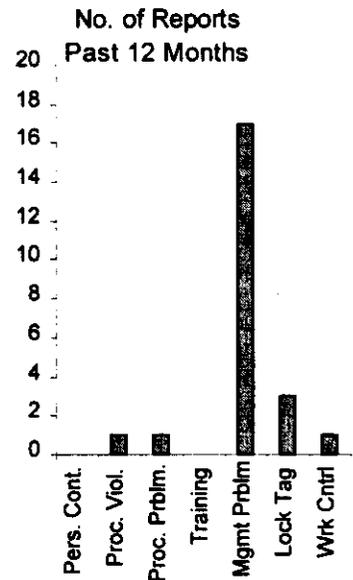
CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

EVENTS PER 200,000 HOURS



Green



ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report. Overall, on track for the June 2000 Phase II verification. Prepare Projects for, and support DOE Phase II efforts.

Green

BREAKTHROUGHS

The Site Management Board's decision (May 1, 2000) to retain Waste Sampling and Characterization Facility (WSCF) as a core laboratory while seeking ways to make it more like a commercial operation (to reduce costs) enables planning to consider the 222-S/WSCF laboratories as a single support system for site processing facilities - including the vitrification plant. It also should slow attrition of key staff needed to support critical site milestones and for potential cold testing support to the vitrification plant.

Green

Green

OPPORTUNITIES FOR IMPROVEMENT

British Nuclear Fuel Limited, Inc. (BNFL) and Bechtel International have begun (May 2000) providing laboratory analytical requirements and turnaround time needs to determine whether support from 222-S/WSCF would enable a significant downsizing of the process support laboratory planned for the vitrification plant. A white paper was funded by CH2M Hill Group (CHG) to estimate cost reduction opportunities through the use of 222-S and WSCF resources.

UPCOMING ACTIVITIES

WIPP Certification and Waste Shipments — Continue to support the production goal of headspace analysis of 253 drums for shipment to WIPP. Complete automation of Gas Chromatographs (GC) #7 and #8 to support WIPP package assembly.

ORP Readiness to Proceed — It has been determined that Analytical Services is prepared to support the readiness to proceed decision for the BNFL/Bechtel contract. Key follow-up actions are:

- Formal specification of requirements from ORP to RL and then to FH
- Stable funding of needed equipment and facility repair in Multi-Year Work Plans (RL and ORP)
- Funding replacement of obsolete laboratory support systems (Information Management)
- Funding of staff to maintain core competency.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Analytical Services	\$15.4	\$16.4	- \$1.0

The \$1.0 million (6 percent) unfavorable cost variance is due to increased cost for 222-S Laboratory polychlorinated biphenyl (PCB) recovery and increased resources required to support compliance issues.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Analytical Services	\$15.4	\$16.0	- \$0.5

The \$0.5 million (3 percent) unfavorable schedule variance is within the established threshold.

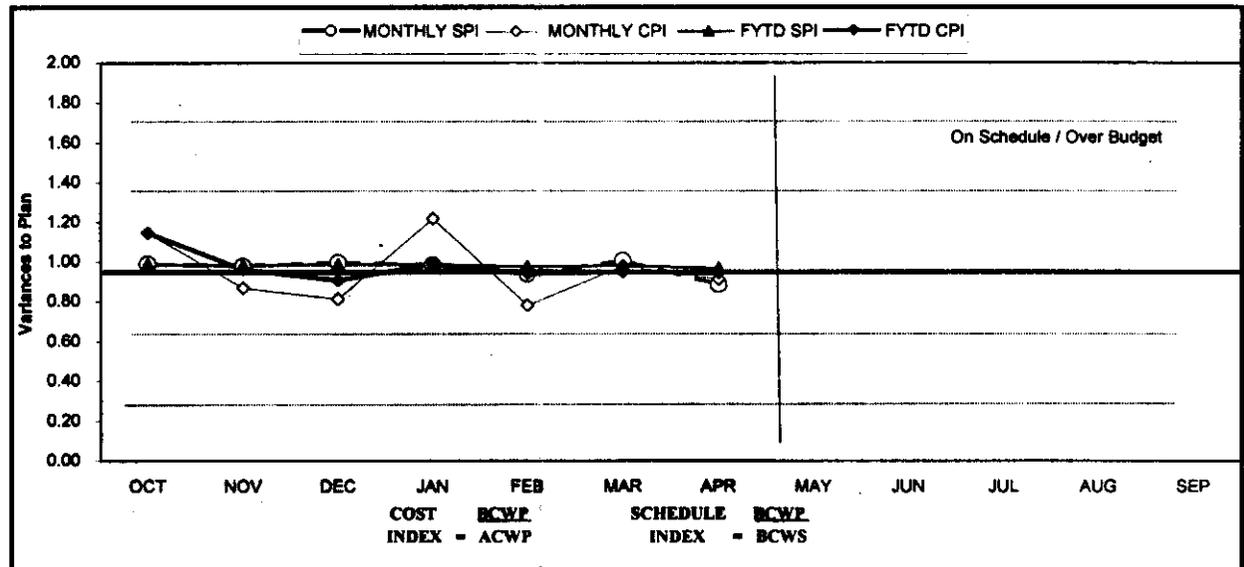
FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
WBS 1.2.4 Analytical		\$ 15,973	\$ 15,431	\$ 16,401	\$ (541)	-3%	\$ (970)	-6%	\$ 27,818	\$ 28,664	\$ 29,062
PBSWM06 Services											
	Total	\$ 15,973	\$ 15,431	\$ 16,401	\$ (541)	-3%	\$ (970)	-6%	\$ 27,818	\$ 28,664	\$ 29,062

Note: FYSF includes projected costs for RL-managed workscope (steam and laundry).

The current spending forecast indicates an overrun of \$0.9M. Due to the unforeseen significant extra costs for Polychlorinated biphenyl (PCB) management, FH senior management has included that full recovery to budget will not be necessary.

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



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					
MONTHLY CPI	1.14	0.87	0.81	1.22	0.78	0.98	0.91					
FYTD SPI	0.99	0.98	0.99	0.98	0.97	0.98	0.97					
FYTD CPI	1.14	0.96	0.91	0.99	0.94	0.95	0.94					
MONTHLY BCWS	\$1,588	\$2,340	\$1,973	\$2,896	\$2,283	\$2,613	\$2,279	\$2,673	\$1,990	\$1,984	\$2,581	\$2,617
MONTHLY BCWP	\$1,566	\$2,288	\$1,960	\$2,848	\$2,135	\$2,624	\$2,010					
MONTHLY ACWP	\$1,369	\$2,640	\$2,414	\$2,342	\$2,741	\$2,686	\$2,208					
FYTD BCWS	\$1,588	\$3,928	\$5,901	\$8,797	\$11,080	\$13,693	\$15,973	\$18,646	\$20,635	\$22,620	\$25,201	\$27,818
FYTD BCWP	\$1,566	\$3,854	\$5,814	\$8,662	\$10,797	\$13,421	\$15,431					
FYTD ACWP	\$1,369	\$4,009	\$6,423	\$8,765	\$11,506	\$14,193	\$16,401					

COST VARIANCE ANALYSIS: (- \$1.0M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description/Cause: The unfavorable cost variance of \$1.0 million (6 percent) is due to increased costs for 222-S Tank 104 poly-chlorinated biphenyl recovery activities; increased resources in support of compliance issues, ISM implementation, corrective action management, and chemical technologist training development.

Impact: Current yearend spending projections indicate a \$0.9M overrun.

Corrective Action: Corrective actions have been identified and implemented to control spending. Due to the unforeseen significant extra costs for PCB management, FH senior management has indicated that full recovery to budget will not be necessary.

SCHEDULE VARIANCE ANALYSIS: (- \$0.5M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description /Cause: The unfavorable schedule variance of \$0.5M (3 percent) is within established threshold.

Impact: None.

Corrective Action: None required.

ISSUES

Technical Issues

None.

DOE/Regulator/External Issues

PCB Management — ORP is establishing a new PCB management approach. Impacts to 222-S and WSCF could be significant and very costly, depending on the final approach taken by ORP. DOE-RL plans to seek funding from ORP to assess impacts and implementation costs of ORP changes in regulation approach.

Delay in 222-S RCRA Part B Application — Analytical Services is requesting a three month delay in submittal of the RCRA Part B application to Ecology. Delay will allow for continued good progress for resolving issues and should result in permit conditions that can be implemented.

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-2000-002	1/3/00	Waste Management FY 2000 Mandated Funds Reduction	-5879			02/17/00			Approved by RL 5/15/2000
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

ANALYTICAL SERVICES - WBS 1.2.4 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	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

Tri-Party Agreement / EA Milestones
Nothing to report.
DNFSB Commitments
Nothing to report.

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

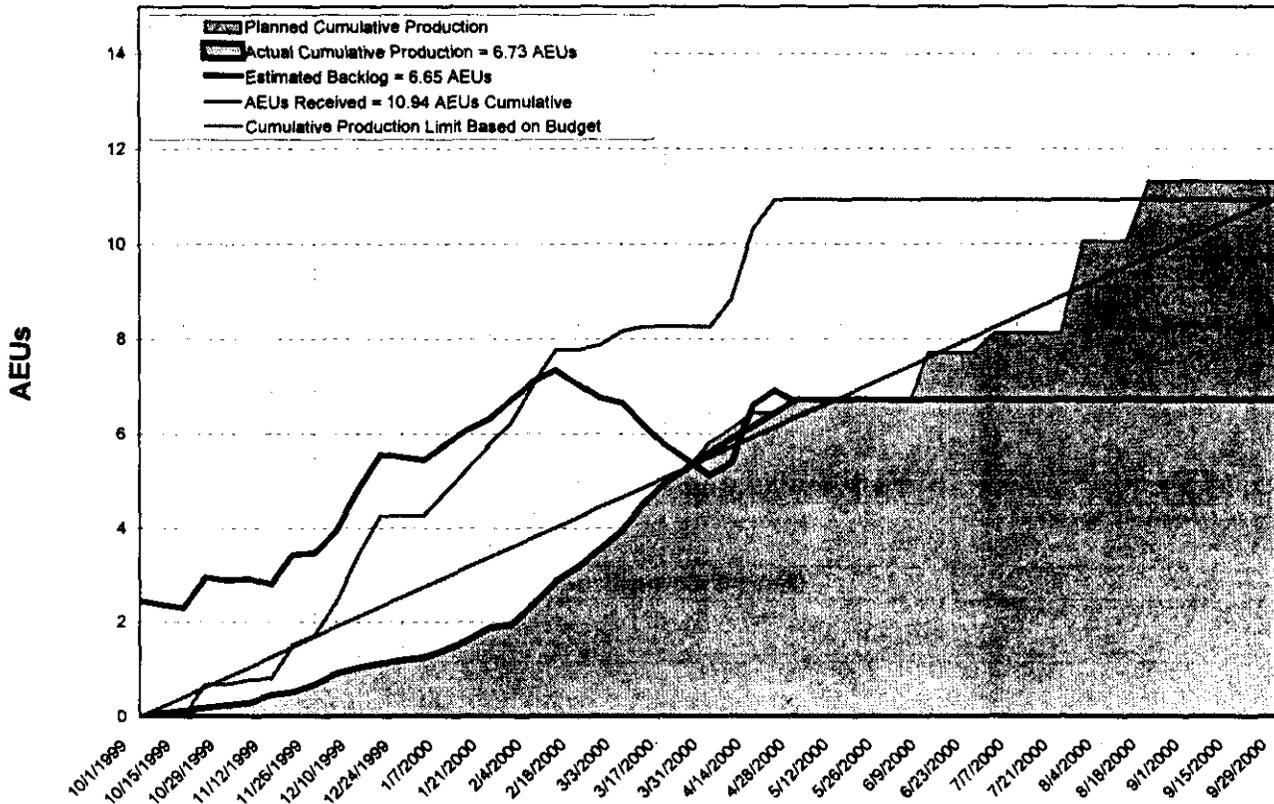
FORECAST LATE - 0

PERFORMANCE OBJECTIVES

Green

FY 2000 RPP SUPPORT AEU PROCESSING (FDH-CP-1-I.A)

April 2000



Continue working with RPP on 222-S laboratory production integration. Will meet the September 2000 commitment of eleven AEU. Production through April 2000 is 6.7 AEU, versus a planned 6.5 AEU. Production through May 19, 2000 is 7.7 AEU.

KEY INTEGRATION ACTIVITIES

- Continue to support BNFL/Bechtel efforts to establish required analytical support for glassification operations.
 - In the longer term, BNFL/Bechtel could utilize unused space at WSCF for cold run test support and process laboratory analytical equipment testing.
 - The 222-S laboratory, with some refurbishment, might become a low cost option to a new large-scale laboratory associated with the glassification facility.

SECTION C:1

NUCLEAR MATERIAL STABILIZATION



PROJECT MANAGERS

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SUMMARY

The Nuclear Material Stabilization mission consists of the Plutonium Finishing Plant (PFP), WBS 1.4.5, PBS TP05.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 15, 2000 unless otherwise stated.

As of May 14, 2000 a total of 255 cans of Plutonium oxides and sludges have been stabilized through thermal stabilization (31 items since last report). A total of 13 liters of Plutonium nitrate solution have been stabilized in the prototype vertical denitration calciner [no change since December 1999 due to focus on $Mg(OH)_2$ Precipitation Process installation activities].

As of May 16, 2000, there have been 167 days without a lost workday injury, attributed to following Integrated Safety Management System (ISMS) principles.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that two of five milestones (40 percent) were completed on or ahead of schedule and three (60 percent) are overdue. Milestone TRP-00-415, "Complete Project W-460 Facility Design" is late because the call for design comments and incorporation of comments took longer than anticipated. The milestone has since been completed, May 15, 2000. Milestone TRP-00-500, "Install Two LANL Pyrolysis Units for Stabilization of Polycubes," is late due to a proposed change in process implementation. A letter was sent to RL indicating the milestone would not be met. Milestone TRP-00-504, "Restart Cementation," is overdue because of re-sequencing of the stabilization processing. Cementation of Sand, Slag, and Crucible (SS&C) material processing will be delayed until FY 2001. Further details can be found in the milestone exception report following the cost and schedule variance analysis.

ACCOMPLISHMENTS

Maintain Safe and Compliant PFP

- As of May 16, 2000, there have been 167 days without a lost workday injury.
- All Polychlorinated Biphenyl-laden oil was removed from the sintering press Analytical Laboratory Room 145 and lines were flushed.
- Three nondestructive assay probe insertions were conducted on Tank 241-Z-361 Riser B. This completes the measurements on Riser B.
- The Special Task Team continued with D-5 cell agitator shaft, gearbox and motor repairs. The motor has been removed and the gearbox unbolted (additional entries ongoing).

Maintain Safe & Secure SNM

- Supported transfers of material to/from Thermal Stabilization and performed Non Destructive Assay (NDA) of newly stabilized material without impact to performance schedule.
- Installation of the new calorimeters in room 637 continues.

Section C: 1 - Nuclear Material Stabilization

- Enhanced surveillance (weighing/radiography) of 2736-Z metal inventory completed April 26, 2000.
- Completed recovery plan dealing with the seismic issues related to the material storage cage in room 638.

Oxides/Metals/Polycubes Stabilization

- Readiness to operate all five furnaces was achieved.
- Readiness to thermally stabilize metal items was achieved.
- A contract was let with Holmes and Narver to evaluate oxides processing, develop a flow sheet and perform cost benefit analysis for process improvements.
- The interim report on Data Quality Objectives for stabilized oxides sampling and analysis was completed. Initial analysis indicates that a Loss on Ignition (LOI) value of 0.44 wt% for the sample will give a 95% probability of not greater than 0.5 wt% in the product can.
- The Oxides Blend Plan was revised to allow processing of lower exposure materials with smaller item weights.

Solution Stabilization

- Completed accelerated delivery of the Mg(OH)₂ process gloveboxes and equipment.
- Initiated double construction shifts (2 10-hour shifts, 6 days/week) to accelerate progress.
- Glovebox 3 installed in Room 230-C, initiated installation of internal process equipment.
- Completed electrical modifications in room 227.
- Plan of Action for the Operations Readiness Review (ORR) being finalized prior to submittal to RL for approval.

Polycube Stabilization

- PNNL testing report was issued.
- Plutonium Process Support Lab (PPSL) full scale testing report issued.
- PPSL report on cold testing of process parameters issued as an internal document. Issuance as "HNF-" document underway.

Project W-460

- 90% Review of Stabilization Packaging Equipment (SPE) & Facility Modification packages was completed.
- Savannah River Site (SRS) has finished assembly and started testing on Bagless Transfer System (BTS).
- Order for 2nd BTS has been placed and MOU approved.

SAFETY

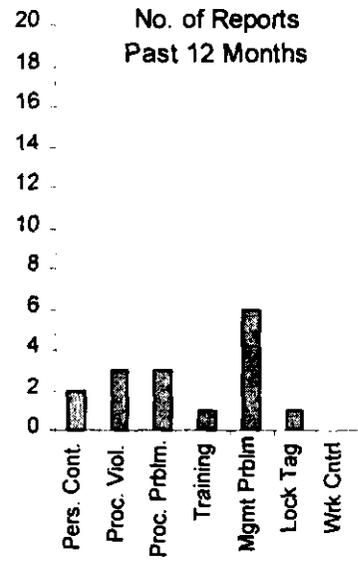
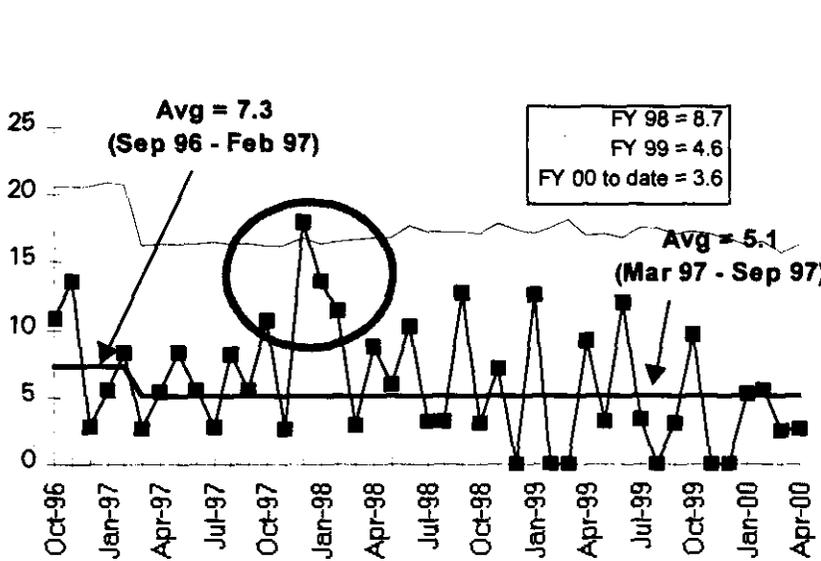
Safety performance continued to be excellent in April with no OSHA Recordable or Lost Workday Case injuries.

The DOE Safety Cost Index has both a new average and control limits reflecting the significant decrease noted earlier in the year. FY 2000 OSHA case rate and DOE Safety Cost Index are very favorable. OSHA recordable case rate has significantly improved in comparison to the adverse trend of Spring 1999. As of May 16, 2000 there have been 167 days without a lost workday injury.

CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS Events per 200,000 Hours

Green



ISMS STATUS

Green

- All action items resulting from the Nuclear Material Stabilization Project Phase 1 verification assessment of the Integrated Safety Management System implementation have been completed.
- Phase II verification will be completed in conjunction with all Fluor projects during the 3rd quarter of the fiscal year.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Implementation of a WIPP "validated" plutonium measuring nondestructive assay (NDA) system in FY 2000 is being worked. If successful, implementation of this WIPP "validated" Pu NDA measurement for residues processing will significantly reduce shipment costs to WIPP (i.e., results in fewer drums by as much as 1000, which will reduce overall costs by approximately \$2.4M [i.e., \$2.4K per drum]).

- Currently, funding has been identified, and equipment is on order.

Opportunities for Improvement

- Installation of second BTS unit provides opportunity to accelerate packaging to DOE Standard 3013 criteria and significantly reduces overall radiation exposure to staff. The Standard requires that "oxides shall be stabilized by heating the material in an oxidizing atmosphere to a Material Temperature of at least 950°C ... for not less than 2 hours."

- Implement ALARA dose reduction measures:
 - Robotic (remote surveillance)
 - Room 638 cage shielding
 - Full scale mock-up vault cubicles
- Contracted with Westinghouse Savannah River Company to provide Outer Can Welder. This will allow review and approval by 3013 Design Authority and ensure final approvals will be expedited.
- A new Criticality Safety Evaluation Report (CSER) allowing an additional boat in HC-18BS is in final review at PFP. Plant approval is expected by the end of May.
- Recommendations for modification of Personnel Security Assurance Program (PSAP) two-man rule requirements, which would provide a potential reduction of resources for facility surveillance and maintenance activities, is scheduled to be presented to RL for review and comment on May 24, 2000.

UPCOMING ACTIVITIES

- Complete annual revision to Integrated Project Management Plan (IPMP) in May 2000.
- Deliver 2 Validated Data Packages on Tank 241-Z-361 core samples in May 2000.
- Thermally stabilize metals determined to be of higher risk as a result of ongoing surveillance activities (i.e.: radiography and weighing) in May 2000.
- Begin Pu solution stabilization via $Mg(OH)_2$ in the fourth quarter of FY 2000.
 - Complete glovebox installation in July 2000.
 - Complete ORR and training activities for stabilization activities in room 230-C in September 2000.
- Startup Residues operations in fourth quarter of FY 2000.
- Complete installation and startup of the 234-5Z BTS in fourth quarter of FY 2000.
- Begin metal stabilization processing in November 2000.
- Initiate polycube stabilization in 1st quarter of FY 2001.
- Complete Vulnerability Assessment that will be used to determine process location and storage location of Pipe-n-Go drums in May 2000.
- Complete RL Milestone FSP-00-415, "Complete Project W-460 Facility Design", by incorporating comments to prepare design for release for construction by third quarter 2000.

COST PERFORMANCE (-\$4.8M):

	BCWP	ACWP	VARIANCE
Nuclear Material Stabilization	\$60.7	\$65.5	-\$4.8

The \$4.8 million (8 percent) unfavorable cost variance is mostly driven by overruns in Solution Stabilization and in NMS Project Management (PBS RL-TP-12). Increased resources for the Mg(OH)₂ glovebox design, procurement and installation have been necessary to maintain the aggressive schedule demands. The NMS overrun is the result of the realignment of the TP-12 budget, and the variance will disappear when BCR #FSP-2000-029 is implemented. The cost overruns are somewhat offset by underruns in other areas due to a shortage of staff.

SCHEDULE PERFORMANCE (-\$14.7M):

	BCWP	BCWS	VARIANCE
Nuclear Material Stabilization	\$60.7	\$75.3	-\$14.7

The \$14.7 million (19 percent) unfavorable schedule variance is due to the behind status on Project W-460, the Plutonium Stabilization and Packaging System, capital activities, such as the elimination of trailers and vault modification design. Facility construction modifications have not started as scheduled due to deviations in the definitive design, required changes to the NEPA Supplemental Analysis and approval of the Notice of Construction by the Washington State Department of Health. The negative schedule variance is also due to the behind schedule status on residues and solution stabilization activities. Solution stabilization construction activities are two months behind schedule, with startup now planned for September 2000. Restart activities for residues are behind schedule and the need for additional NDA equipment necessary for WIPP validation has been ordered. Restart of residues disposition activities (i.e., Pipe-n-Go of ash) is now anticipated in the 4th quarter of FY 2000, versus the planned April 2000 restart. Oxide stabilization activities continue significantly ahead of schedule.

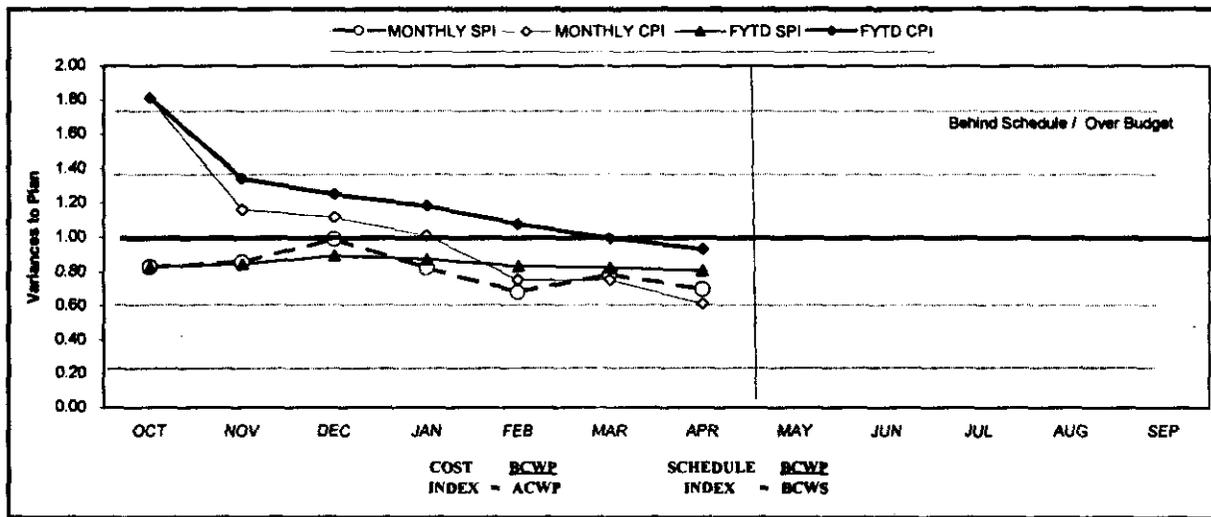
**FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES
 CUMULATIVE TO DATE STATUS – (\$000)**

Yellow

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
WBS 1.4.5	PFM	\$ 75,338	\$ 60,654	\$ 65,465	\$ (14,684)	-19%	\$ (4,811)	-8%	\$ 127,203	\$ 127,634	\$ 127,037
PBS TP05	Deactivation										
Total		\$ 75,338	\$ 60,654	\$ 65,465	\$ (14,684)	-19%	\$ (4,811)	-8%	\$ 127,203	\$ 127,634	\$ 127,037

RL-Directed costs (steam) are included in the PEM BCWS.

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.83	0.85	0.98	0.82	0.68	0.78	0.70					
MONTHLY CPI	1.81	1.16	1.11	1.01	0.75	0.75	0.61					
FYTD SPI	0.83	0.84	0.89	0.87	0.83	0.82	0.81					
FYTD CPI	1.81	1.34	1.25	1.18	1.07	0.99	0.93					
MONTHLY BCWS	\$7,913	\$12,725	\$9,999	\$10,540	\$11,128	\$ 13,401	\$ 9,632	\$ 12,535	\$ 8,950	\$ 9,309	\$ 11,289	\$ 9,782
MONTHLY BCWP	\$6,543	\$10,873	\$9,849	\$8,638	\$7,568	\$ 10,480	\$ 6,704					
MONTHLY ACWP	\$3,613	\$9,386	\$8,845	\$8,587	\$10,083	\$ 13,961	\$ 10,988					
FYTD BCWS	\$7,913	\$20,638	\$30,637	\$41,177	\$52,305	\$ 65,706	\$ 75,338	\$ 87,872	\$ 96,822	\$ 106,132	\$ 117,421	\$ 127,203
FYTD BCWP	\$6,543	\$17,416	\$27,265	\$35,903	\$43,470	\$ 53,950	\$ 60,654					
FYTD ACWP	\$3,613	\$12,999	\$21,844	\$30,431	\$40,516	\$ 54,477	\$ 65,465					

COST VARIANCE ANALYSIS: (-\$4.8M)

WBS/PBS

Title

1.4.5.1.13/TP05

Stabilization of Nuclear Materials (-\$3.9M)

Description and Cause: The unfavorable cost variance is due primarily increased plant support needed for procurement and installation of the Mg(OH)₂ glovebox and equipment, and other construction activities, and use of subcontract staff augmentation.

Impact: Construction not started on time; cost overruns can hurt overall plant project funding.

Corrective Action: Acceleration of schedule for procurement, construction and startup has been implemented.

1.4.5.1.14/TP05

Disposition of Nuclear Materials (+\$1.1M)

Description and Cause: Positive cost variance is the result of the ability to disposition waste and product materials at significantly reduced costs. There is a partially offsetting negative cost variance associated with Project W-460 because of delays in starting construction.

Impact: Project W-460 could cost more than originally estimated.

Corrective Action: Maintain aggressive hiring, training, and clearance program for Nuclear Operators and other support, which is now being implemented as planned.

1.4.5.1.15/TP05

Transition PFP (-\$0.6M)

Description and Cause: The unfavorable cost variance is the result of increased costs for lab analysis of tank 241-Z-361 samples as well as carryover work scope not yet reflected in the

baseline. Laboratory Analysis has shown tank values exceed 50 ppm of Polychlorinated Biphenyl PCBs. Evaluation as to disposition is underway.

Impact: If work scope were stopped due to budget issues, the Tri-Party Agreement milestone due May 31, 2000 would not be met. Continuing work scope will result in cost over run for this activity, savings from elsewhere within NMSP will be required to offset the overrun.

Corrective Action: Approve and implement baseline change request to reflect FY 1999 carryover work scope. If PCBs are found to exceed allowable limits, a separate change request may be required to incorporate the additional special waste handling requirements into the baseline. Identify cost savings from elsewhere within the NMSP to offset this overrun.

1.4.5.1.12/TP05 PFP Fee Allocation (-\$2.5M)

Description and Cause: Unfavorable cost variance due to point adjustment (-\$1,769K) in October to adjust for delay in staff hiring ramp-up at the beginning of FY 2000. Also an increase in the fee accrual from a rate of 90% to 100%.

Impact: No impact.

Corrective Action: None required.

1.4.6.5/TP12 NMS Project Management/Mentoring (-\$1.9M)

Description and Cause: The change request to realign the TP12 (Transition Project Management) budget between the Nuclear Material Stabilization Project and the River Corridor Project is still in process; therefore the NMSP budget is understated resulting in a negative cost variance.

Impact: None

Corrective Action: DOE-RL approval. Implementation of change request reflecting the PHMC restructuring.

SCHEDULE VARIANCE ANALYSIS: (-\$14.7M)

WBS/PBS

Title

1.4.5.1.14/TP05 Disposition of Nuclear Material (-\$9.3M)

Description and Cause: The unfavorable schedule variance is primarily due to delays in Line Item Project W-460, Plutonium Stabilization and Packaging System, definitive design and construction. Facility construction modifications have not yet started as scheduled, due to deviations to the Definitive Design, required changes to the NEPA Supplement Analysis and approval of the Notice of Construction (NOC) by the Washington State Department of Health (WSDOH).

Impact: Potential delay in the startup of the Bagless Transfer and Stabilization system in 2736-ZB, which can impact stabilization activities in FY 2001.

Corrective Action: To assist in the recovery, a second BTS unit is being installed in the 234-5Z facility, which will enable BTS unit operation in FY 2000 as originally planned. Project W-460 management and WSDOH staffs are aggressively working to approve the NOC, which will enable construction to begin. The aggressive hiring, training and clearance program for Nuclear Operators and other support staff is being implemented as planned.

1.4.5.1.13/TP05 Stabilize SNM (-\$4.8M)

Description and Cause: The unfavorable schedule variance is due primarily to the behind schedule status on residues and solution stabilization activities. Solution stabilization construction activities are two months behind schedule, with startup now planned for September 2000. Also, restart activities for cementation are behind schedule due to the need for additional Nondestructive Assay (NDA) equipment necessary for WIPP validation. Restart of cementation of Sand, Slag, and Crucible (SS&C) material processing is now anticipated in late July 2000, versus the April 2000 restart. Oxide stabilization activities continue significantly ahead of schedule.

Impact: Potential delay in both restart of cementation and startup of $Mg(OH)_2$ precipitation processing for solution stabilization; anticipate schedule recovery by the end of FY2000.

Corrective Action: An aggressive recovery plan has been developed for both solution stabilization and cementation activities to commence operations in September and July respectively. Plans are also in place to stabilize solutions and residues exceeding baseline commitments even with a late processing start. NDA equipment has been ordered and NMSP is working with the WM Project to meet the WIPP certification.

ISSUES

Technical Issues

Lack of certified shipping containers in the DOE Complex to meet PFP schedules.

Impact(s): Prohibits shipment of nuclear materials that cannot go to either WIPP or DOT-6M containers (i.e., Pu standards for re-certification, shipment of reactive materials for processing elsewhere, etc.).

Corrective Action: Work with the DOE Complex to certify containers to meet PFP shipping needs (i.e., 9975 container to be re-certified in June 2000, etc.).

Jointly resolve issues associated with precipitation process. Concentration, Density, Filtrate Handling (permitting of 241-Z to handle heavy metals), discard directly to tank farms.

Impact(s): Concentration/density issue may significantly impact the number of containers to be stored under final disposition. The 241-Z permitting issue, if not resolved, can impact the plant's ability to discard solution waste to tank farms resulting from the $Mg(OH)_2$ precipitation processing of plutonium solutions.

Corrective Action: Concentration/density issue is being worked through laboratory testing at both PNNL and PFP's Plutonium Process Support Laboratories. Appropriate actions will be taken according to laboratory results. Also, project management has worked with the Tank D-5/D-8 readiness team to ensure that these tanks are ready to support solution stabilization processing startup as scheduled.

Equipment for processing Pu inside the $Mg(OH)_2$ gloveboxes needs to be defined and approved by Operations before glovebox size can be finalized.

Impact(s): Gloveboxes cannot be ordered until size is finalized.

Corrective Action: Use mockup and daily meetings with Operations to finalize the

internal arrangement of the gloveboxes to the point where a size can be determined and the gloveboxes ordered.

Solution Stabilization Readiness Assessment has been replaced with an ORR.

Impact(s): Impact to schedule. Delay of activities could impact Performance Incentive.

Corrective Action: Detailed evaluation conducted to identify activities and resources to perform scope of work. Finalizing list of activities for incorporation into project schedule.

Criticality analysis for storage of drums with Pipe Overpack Containers (POCs) at the Central Waste Complex (CWC). (Currently unfunded)

Impact(s): Drums with POCs will not be shipped to the CWC. The Cementation process will begin using a 90-day storage pad until permitted storage is approved by Ecology.

Corrective Action: A statement of work has been written by the Central Waste Complex safety representative for development of a criticality credibility analysis using an analysis similar to that used at RFETS to support POC drum storage at the CWC.

DOE/Regulator/External Issues

- RCRA Permitting Part A revision for adding ignitability waste code was submitted to Ecology in support of Cementation startup.
- RCRA Permitting in support of Pipe-N-Go:
 - A revised Notice of Intent (NOI) to define storage locations at PFP was released for public review
 - Revised Part A to provide permitted storage at PFP will be transmitted to Ecology in May 2000
- Notice of Construction (NOC) was sent to Washington State Department of Health (WSDOH) on March 6, 2000, could take up to 60 days for approval. No feedback received to-date.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
FSP-2000-001	13-Oct-99	Delete TRP-99-419, Complete Install. of Production Scale Vertical Calciner	\$0						Deleted
FSP-2000-004	23-Nov-99	PFP Test Polycube Stabilization via Muffle Furnace	\$0	X	X	17-Feb-00	17-Feb-00		RL approved
FSP-2000-005	30-Nov-99	Implement PFP Int Proj Mgmt Plan Addendum I	\$659	X	X				In work at PFP
FSP-2000-011	27-Dec-99	Adjusted PFP Cementation Processing to include Sand, Slag and Crucible	\$0	X	X	14-Jan-00	18-Jan-00	17-Feb-00	Implemented
FSP-2000-025	10-Mar-00	PFP Replacement Transformer	\$992	X		27-Mar-00	27-Mar-00	Not Req'd	Implemented
FSP-2000-029	26-Jan-00	PFP FY2000 Funds Reduction	(\$6,885)	X		9-Mar-00	23-Mar-00	16-May-00	RL approved
FSP-2000-032	22-Mar-00	PFP 2nd Bagless Transfer System	\$2,127	X	X	29-Mar-00	7-Apr-00		Submitted to RL 4/7/2000
FSP-2000-035	3-Apr-00	PFP Carry-over Workslope	\$620	X	X				In work at PFP
ADVANCE WORK AUTHORIZATIONS									
AWA-00-001	21-Oct-99	Polycube Stabilization Testing	\$500	X	X			21-Oct-99	Completed
AWA-00-002	22-Sep-99	Residue Cementation	\$500	X	X			19-Oct-99	Completed
AWA-00-003	01-Jan-00	Main Power Transformers	\$350	X				31-Jan-00	Completed
AWA-00-004	01-Jan-00	2nd Bagless Transfer Unit	\$500	X	X			11-Feb-00	Completed
AWA-00-005	6-Mar-00	2nd Bagless Transfer Unit	\$500	X	X			8-Mar-00	Completed

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	1	0	0	0	0	1	0	2
DOE-HQ	0	0	0	1	0	0	0	1
RL	1	0	0	2	0	8	0	11
Total Project	2	0	0	3	0	9	0	14

Tri-Party Agreement / EA Milestones	
Tri-Party Agreement Milestone M-15-37A (TRP-00-501), "Deliver Two (2) Tank Z-241-Z-361 Core Samples to 222-S", due 10/30/99 • Completed 1 month early (9/28/99)	Green
Tri-Party Agreement Milestone (TRP-00-511), "Deliver Two (2) Tank 241-Z-361 Core Sample Validated Data Packages to EPA", due 5/31/00 • On Schedule	Green
DNFSB Commitments	
DNFSB Milestone IP-113 (TRP-00-500), "Install 2 LANL Pyrolysis Units for Stabilization of Polycubes at PFP", due 12/31/99 • A BCR to remove pyrolysis stabilization of polycubes and implement thermal stabilization in its stead has been approved by RL and implemented into the baseline.	Yellow

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 - 3

TRP-00-415	HQ	Complete Project W-460 Facility Design	02/29/00	05/15/00
1.4.5				
Cause: Issuing for review took longer than scheduled and then received more comments back than anticipated, thus comment incorporation taking longer than planned.				
Corrective Action: None. This milestone was completed May 15, 2000.				

TRP-00-504	RL	Restart Cementation Operations	04/21/00	FY 2001
1.4.5				
Cause: Stabilization processing has been re-sequenced.				
Corrective Action: None, as the global stabilization end point will remain the same.				

TRP-00-500	HQ	Install Two LANL Pyrolysis Units for Stabilization of Polycubes	12/31/99	Proposed Deletion
1.4.5				
Cause: See DNFSB Commitment above.				
Corrective Action: A BCR to remove pyrolysis stabilization of polycubes and implement thermal stabilization in its stead has been approved by RL and implemented into the baseline. However, this is a HQ milestone and cannot be removed from the list.				

FY 1999 OVERDUE - 2

TRP-99-419 RL Complete Installation of Production 09/30/99 Proposed
1.4.5 Scale Vertical Calciner Deletion

Cause: The production scale vertical calciner has been replaced with the Magnesium Hydroxide Precipitation process.

Impact: No impact. This milestone is obsolete.

Corrective Action: Since installation and testing of the production scale vertical calciner is an EM-65 Management Commitment, the Department of Energy, Richland Office (DOE-RL) change control process cannot remove this milestone.

TRP-99-500 HQ Complete Installation & Testing of 09/30/99 Proposed
1.4.5 Production Vertical Calciner Deletion

Cause: The production scale vertical calciner has been replaced with the Magnesium Hydroxide Precipitation process.

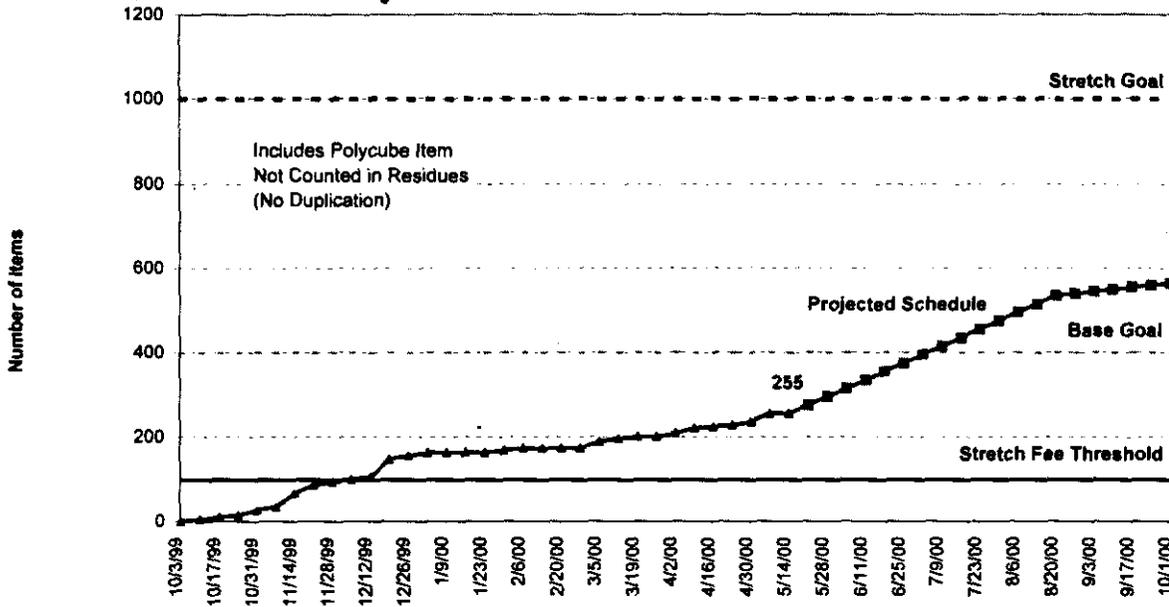
Impact: No impact. This milestone is obsolete.

Corrective Action: Since this milestone is a DOE-HQ milestone and is part of the DOE-HQ 1998 DNFSB Recommendation 94-1 Implementation Plan, the Department of Energy, Richland Office change control process cannot remove this milestone. However, this milestone will be removed upon approval of the revised DOE-HQ DNFSB Recommendation 94-1 Implementation Plan.

PERFORMANCE OBJECTIVES

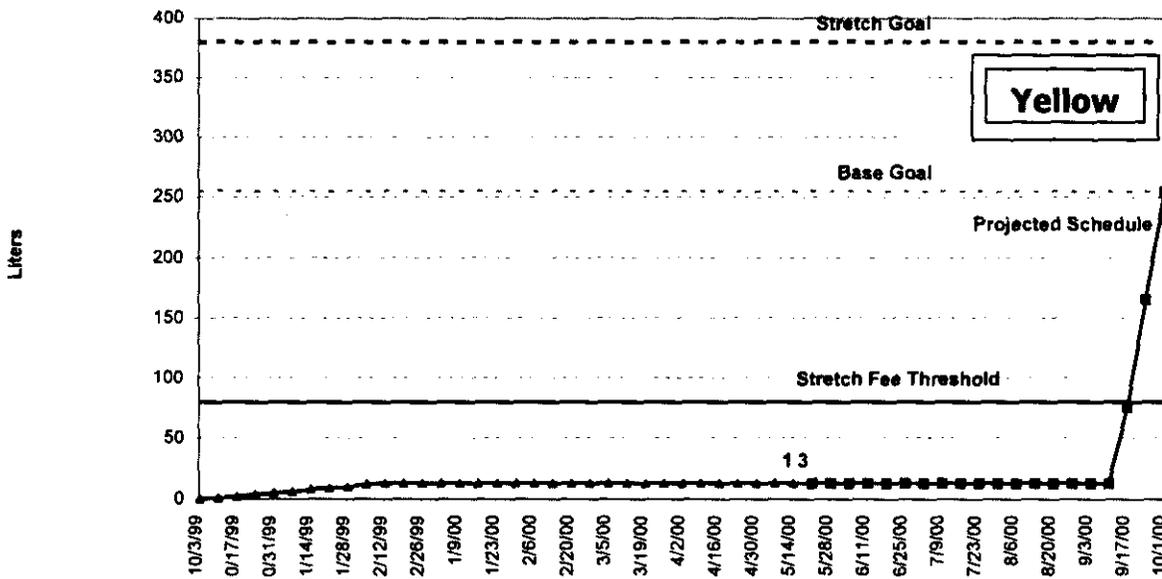


Oxides/Metals/Polycubes Stabilization



	10/3	10/17	10/31	11/14	11/28	12/12	12/26	1/9	1/23	2/6	2/20	3/5	3/19	4/2	4/16	4/30	5/14	5/28	6/11	6/25	7/9	7/23	7/30	8/13	8/27	9/10	9/24	
Oxides Stretch Goal	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Oxides Base Goal	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0
Oxides Actual	0	10	27	87	95	107	157	164	184	174	174	189	201	209	221	228	255											
Oxides Projected Schedule																		275	315	355	395	435	475	515	540	550	560	
Stretch Fee Threshold	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Solution Stabilization

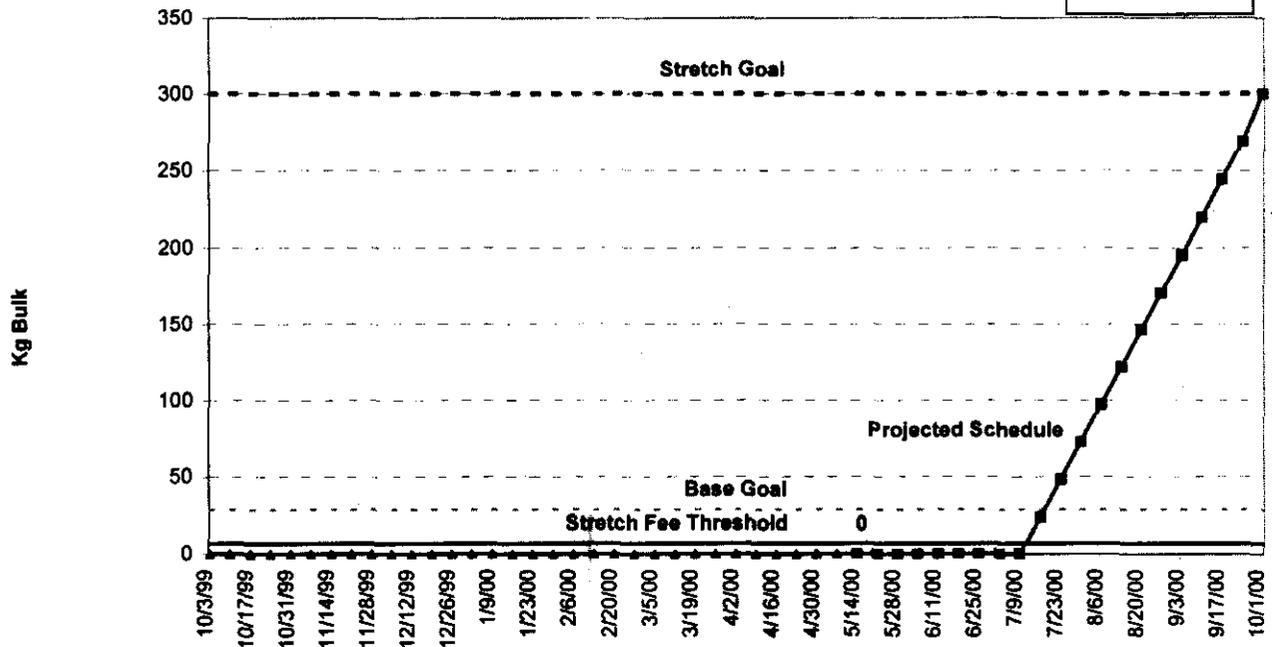


	10/3	10/17	11/7	11/21	12/5	12/26	1/9	1/23	2/6	2/27	3/12	3/26	4/16	4/30	5/14	6/4	6/18	7/2	7/16	8/6	8/20	9/3	9/24	
Solutions Stretch Goal	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380
Solutions Base Goal	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0
Solutions Actual	0	2	8	9	12	13	13	13	13	13	13	13	13	13	13									
Solutions Projected Schedule																13	13	13	13	13	13	13	13	165.5
Stretch Fee Threshold	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

Aggressively pursuing construction completion in support of stabilization activities.

Residues Stabilization

Yellow



	10/3	10/17	11/7	11/21	12/5	12/26	1/9	1/23	2/6	2/27	3/12	3/26	4/16	4/30	5/14	6/4	6/18	7/2	7/16	8/6	8/20	9/3	9/24	
Residues Stretch Goal	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Residues Base Goal	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Residues Projected Schedule															0	0	0	0	24	97.5	146.5	195.5	269	
Residues Actual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Stretch Fee Threshold	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

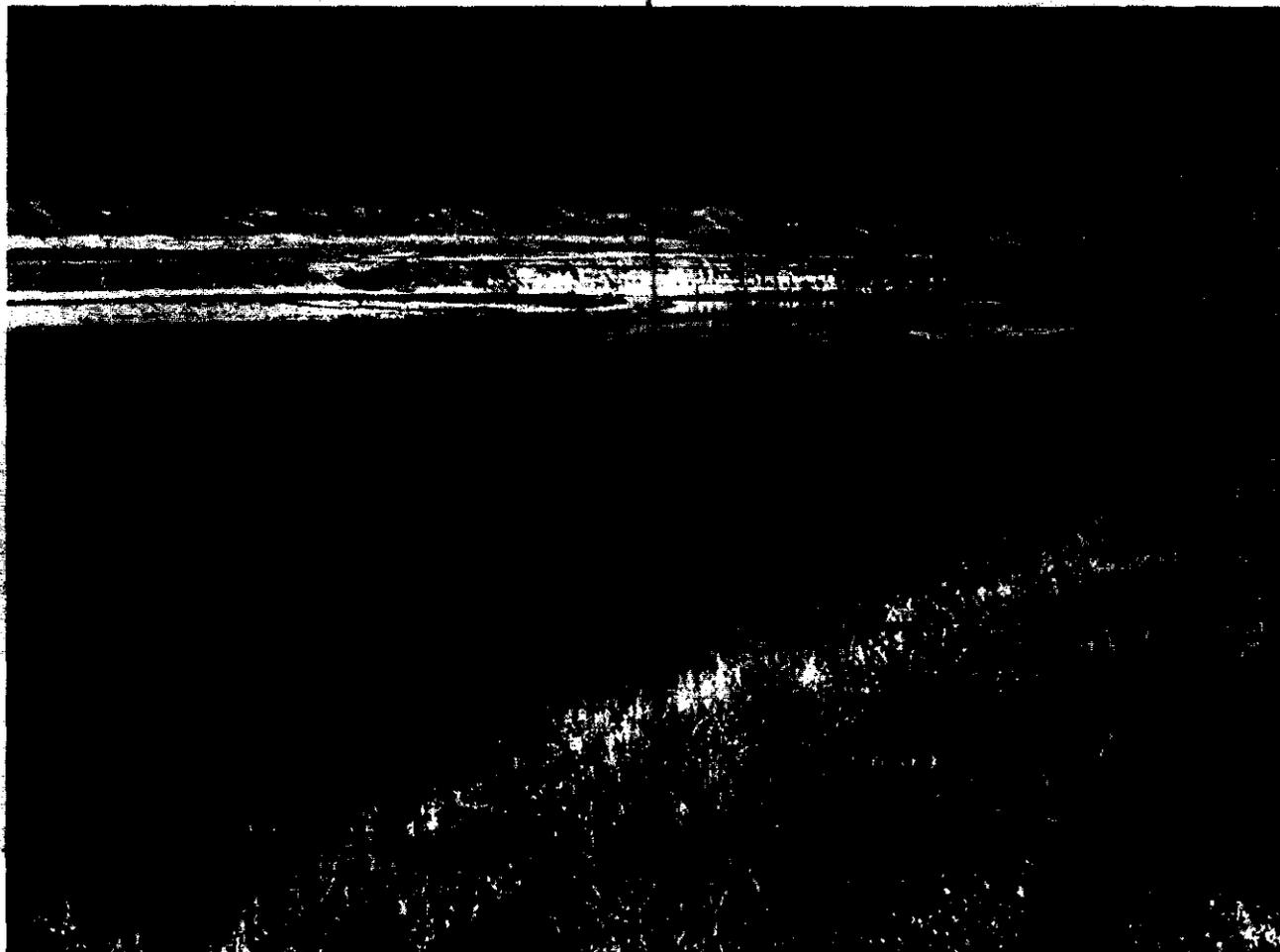
Update baseline schedule for new cementation start-up date and adjust ash schedule for preparatory work.

KEY INTEGRATION ACTIVITIES

- Working on interface agreement between PFP and Waste Management to define requirements and responsibilities to support CWC and WIPP acceptance of packaged residues.
- Continue work with Rocky Flats to procure containers (Pipe-n-Go) to support PFP Residue Stabilization without the need for another procurement action. Work continues with Rocky Flats to reach a joint resolution to PFP stabilization heating process.
- Joint PNNL/PPSL Mg(OH)₂ Continues:
 - Status meeting with PNNL, PFP & DOE RL
 - PPSL preparing to conduct scale testing with test set up developed by PNNL.
 - Downloaded solutions (1 PR container) in room 227 to support Phase 2 testing by PPSL

THE RIVER

Restoring the river corridor is one of the outcomes Hanford must focus on to move forward with cleanup. The PHMC supports this outcome with activities such as moving the spent nuclear fuel, cleaning up the waste sites, and taking down surplus facilities. Projects supporting this effort are Facility Stabilization (River Corridor), Spent Nuclear Fuel, and Science & Technology (EM – 50) activities.



SECTION C: 2

RIVER CORRIDOR



PROJECT MANAGERS

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SUMMARY

The River Corridor Project consists of the following projects: 300 Area Liquid Effluent Facility (LEF) WBS 1.2.3.2, Project Baseline Summary (PBS) WM05; B-Plant, WBS 1.4.1, PBS TP01; 300 Area/Special Nuclear Materials, WBS 1.4.4, PBS TP04; Transition Project Management, WBS 1.4.6, PBS TP12; Accelerated Deactivation, WBS 1.4.8, PBS TP10; 324/327 Facility Transition, WBS 1.4.10, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11, PBS TP14.

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 incorporated in their baseline.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, Metrics and Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 24, 2000.

Good progress was made toward closeout of the actions required by the B Plant transfer Memorandum of Agreement (MOA). Repair of the cracked duct was completed on May 5, 2000, and turnover criteria are being negotiated between Bechtel Hanford, Inc., Fluor Hanford, and the Department of Energy – Richland.

Progress continues toward Accelerated Deactivation of the 327 Facility with the removal of 202 of 294 sample cans from Dry Storage. Additionally, 22.1 m³ bulk waste has been shipped and 28.9 m³ bulk waste has been packaged so far this fiscal year.

Ten grout containers, of the planned seventeen, have now been shipped to the Low-level Burial Grounds in the 200 Area. Shipment of this waste is critical to meeting TPA milestone M-89-02, "Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment," due November 2000.

The Accelerated Deactivation project is making good progress in planning for the disposition of approximately 1,865 metric tons (MT) of Hanford Unirradiated Uranium. Review of the billet Safety Analysis Report for Packaging has been initiated by DOE-HQ for approval. DOE-RL review of the Environmental Assessment has been completed. Final disposition of Unirradiated Uranium fuel elements to low-level waste burial grounds vs. packaging and transportation to Portsmouth, Ohio for interim storage provides the method to save in excess of \$1M over the current Project Management Plan cost baseline. If funded and regulatory agreement is received, disposition of the Uranium fuel elements will occur in the last quarter of FY 2000. Concurrently, Phase I activities to prepare uranium billets and UO₃ T-hoppers for shipment are continuing. Additional savings can be realized by consolidating shipments of Uranium billets and Uranium Oxide powder, which will save approximately 40% (\$200K) of the planned transportation cost to

Portsmouth, Ohio. If funding is identified to support this initiative, shipment of the material to Portsmouth will occur in the July/August 2000 time frame.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that three of five milestones (60 percent) were completed on or ahead of schedule and two milestones are overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

ACCOMPLISHMENTS

River Corridor Project celebrated the achievement of 750,00 safe work hours with no Lost Time Injury.

The wire rope replacement effort for the B Cell 10-ton crane was completed via airlock entry on May 8, and the crane was returned to service.

RL Milestone TRP-99-907, "1A 3-82B Cask Shipments Complete," was completed on May 24, 2000, seven days ahead of its due date. The 10 grout container shipments to the Low-Level Burial Grounds in the 200 Area were from a mix of 1A Rack, 2A Rack and legacy grout containers from the 324 Building B Cell. All 10 containers were shipped as a part of the ongoing fiscal year 2000 17-container campaign that began in March. All remaining grout containers filled with B Cell rack remnants are to be shipped by February 28, 2001, per RL Milestone TRP-99-909.

The 300 Area Liquid Effluent Facility treated 4.6 million gallons of wastewater, and all off-specification wastewater from the process upset has been treated.

327 Building personnel transferred 64 of 294 specimen containers from Dry Storage for a total of 202 containers. Additionally, the plant has shipped 22.1 m³ bulk waste and packaged 28.9 m³ bulk waste fiscal year-to-date.

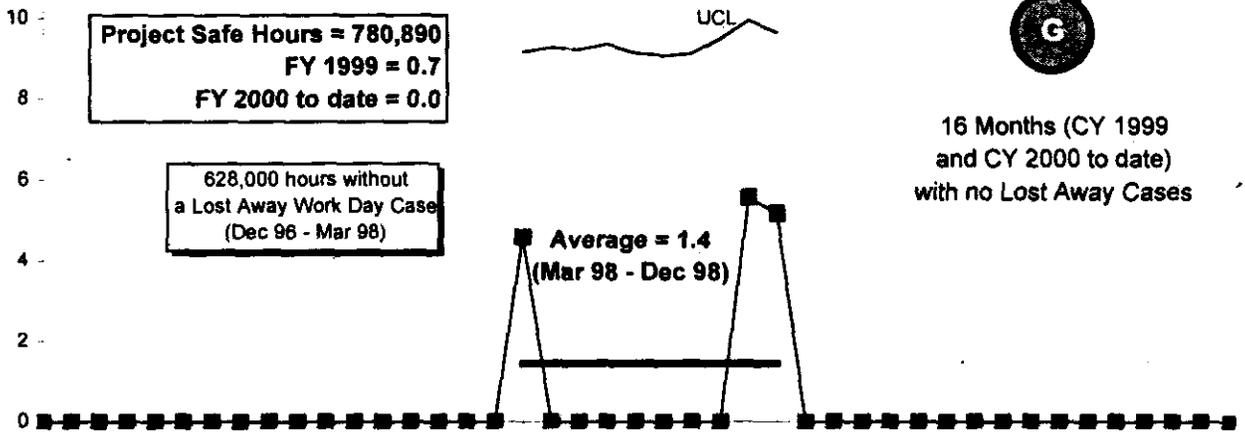
HEPA filter and pre-filter replacements, duct repairs, and passive vent system tests are complete at B Plant.

Planning continues in support of the 300 Area Accelerated Closure Plan development. Facility walk-downs have been completed by the D&D Team and are nearing completion by the Deactivation and Utilities/Relocation Team. All activities are on schedule to meet the twelve-week schedule for issuance of the plan, schedule and estimate for the accelerated closure of the 300 Area.

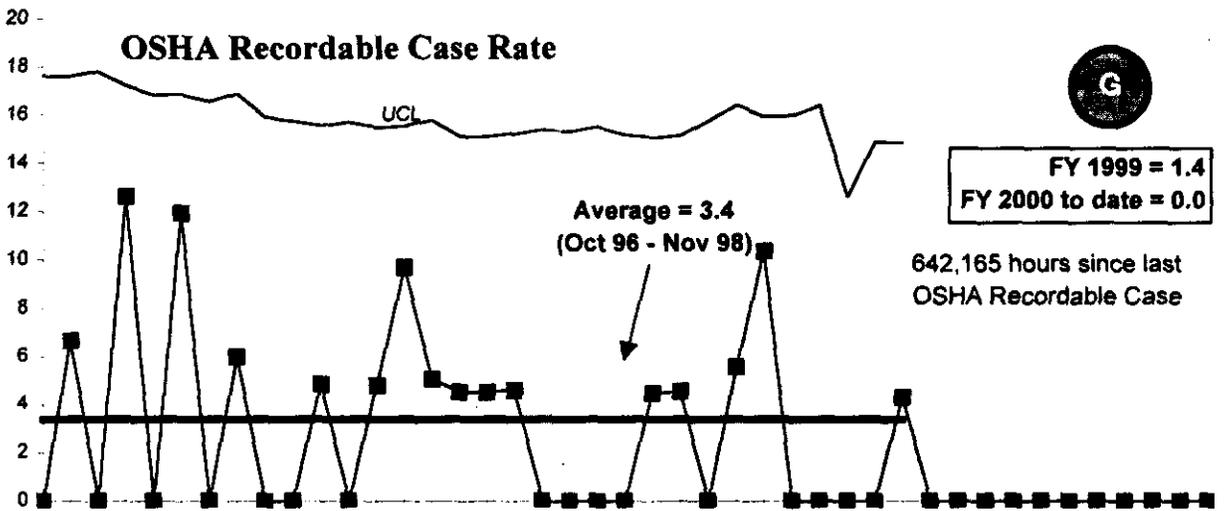
SAFETY

Significant decreases in OSHA recordable case rate and in DOE Safety Cost Index have recently occurred. The project has exceeded 750,000 hours without an OSHA recordable. The project has an overall green rating - stable at excellent rates.

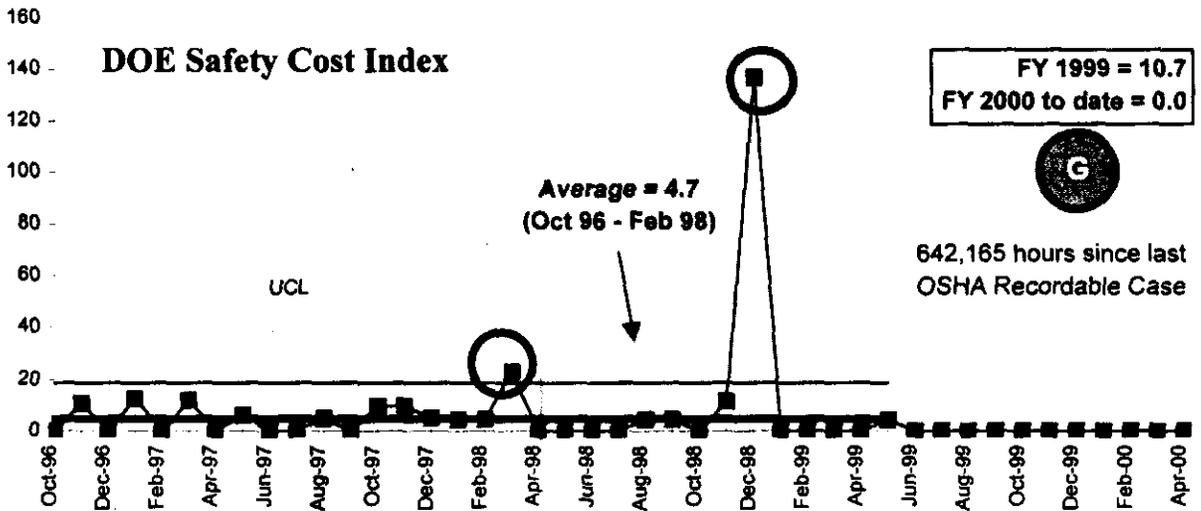
Lost Away Workday Case Rate



OSHA Recordable Case Rate



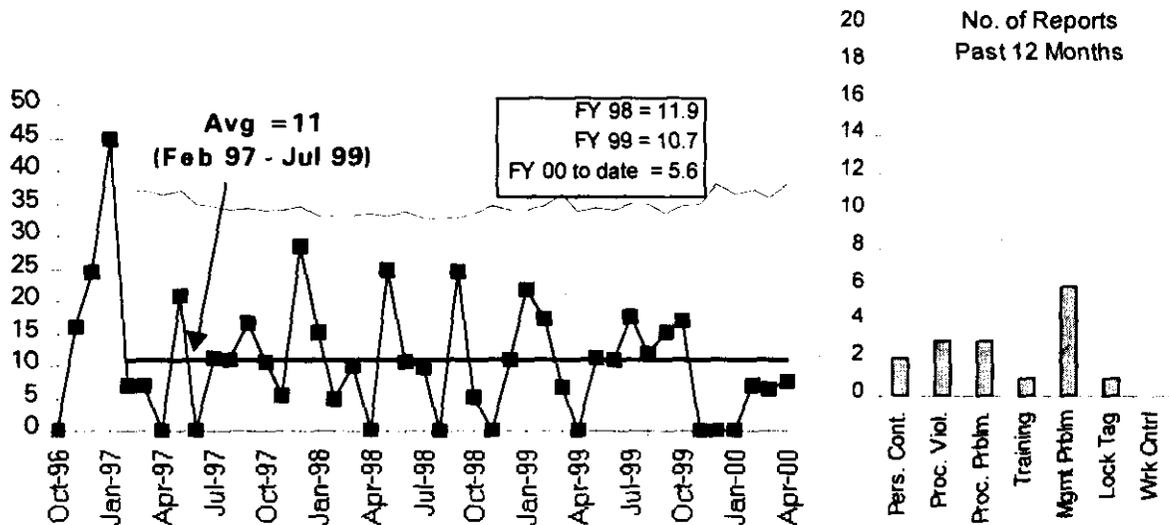
DOE Safety Cost Index



CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Events per 200,000 hours



Green

ISMS STATUS

Green

- ISMS Internal Readiness Review (IRR) completed; closure plan in progress
- Phase I Verification successfully completed April 28, 2000
- Declared Readiness for ISMS Phase II Verification May 2, 2000
- ISMS Phase II Verification targeted for June 12, 2000

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Green

Savings Through Alternative Disposition Strategy - Final disposition of Unirradiated Uranium fuel elements to low-level waste burial grounds vs. packaging and transportation to Portsmouth, Ohio for interim storage will save in excess of \$1M over the current Project Management Plan cost baseline. If funded and regulatory concurrence is received, disposition of the Uranium fuel elements would occur in the last quarter of FY 2000.

Opportunities for Improvement

Green

- **324 Project Planning / Execution:** An emphasis on improved schedule management to ensure that critical path negative float is recovered to positive float continues. Critical

path method analysis of baseline schedule has lead to several schedule sequence changes devised to improve baseline performance. As work progresses, the need to re-sequence will continue to be assessed.

- **Consolidating Uranium Shipments** - Consolidating shipments of Uranium billets and Uranium Oxide powder will save approximately 40% (\$200K) off the planned transportation cost to Portsmouth, Ohio. If funding is identified to support this super stretch initiative, shipment of the material to Portsmouth will occur in the July/August 2000 time frame.
- **Accelerate 384 Powerhouse Demolition** - Revise existing DynCorp request for proposal for 200 Area Powerhouse demolition to include 384 Powerhouse and make first priority.

UPCOMING ACTIVITIES

- **B Plant Transfer to ERC** — Complete closeout activities by June 30, 2000.
- **Integrated Environmental, Safety & Health Management System (ISMS)** — Complete verification of Phase II readiness activities by June 2000.
- **300 Area Accelerated Closure Project Plan** — Prepare and issue the 300 Area Accelerated Closure Project Plan, schedule and estimate July 3, 2000.
- **300 Area Waste Acid Treatment System (WATS) Resource Conservation and Recovery Act (RCRA) Closure Activities** — The final report due to RL has been delayed until September 2000 due to the review and comment cycle with Washington Department of Ecology (WDOE). A baseline change request has been submitted to delete the milestone, TRP-99-301, “*Submit Final Report on WATS Closure Activities to RL.*”
- **TPA Milestone M-89-02** — Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment by November 2000.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
River Corridor Project	\$31.7	\$29.7	\$2.0

The \$2.0 million (6.0 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):

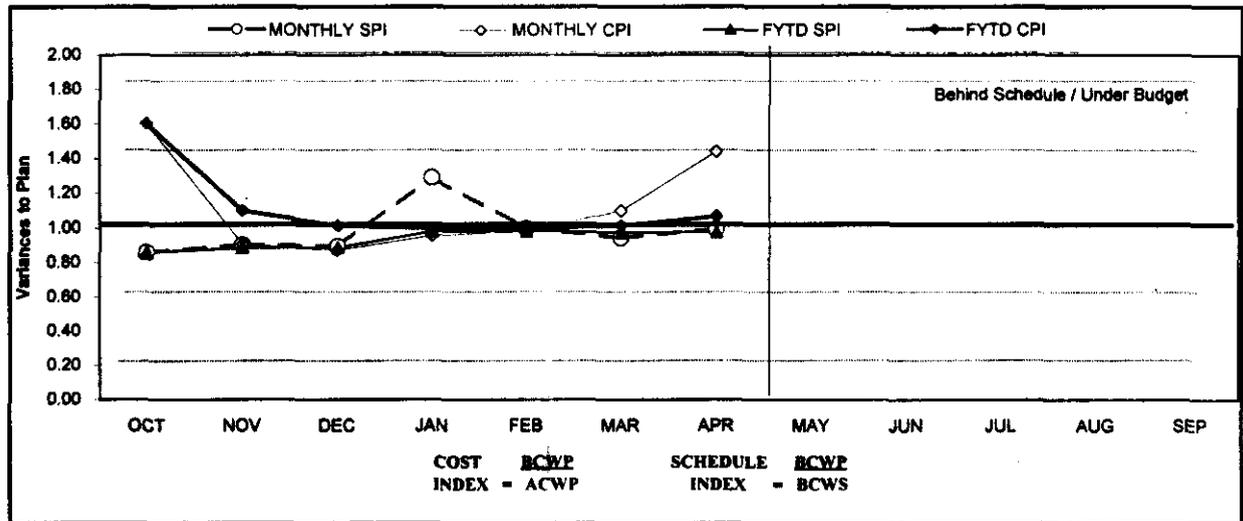
	BCWP	BCWS	VARIANCE
River Corridor Project	\$31.7	\$32.4	\$-0.7

The \$0.7 million (2.0 percent) unfavorable schedule variance is within the 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)**

By PBS	FYTD									
	BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
PBS TP01 WBS 1.4.1 B-Plant	\$ -	\$ -	\$ 426	\$ -	0%	\$ (426)	0%	\$ -	\$ 460	\$ 460
PBS TP04 WBS 1.4.4 300 Area/ Special Nuclear Materials	\$ 1,507	\$ 1,498	\$ 1,436	\$ (9)	-1%	\$ 62	4%	\$ 2,686	\$ 2,878	\$ 2,928
PBS TP12 WBS 1.4.6 Transition Program Management	\$ 10,755	\$ 10,876	\$ 8,145	\$ 121	1%	\$ 2,731	25%	\$ 19,408	\$ 7,663	\$ 7,663
PBS TP10 WBS 1.4.8 Accelerated Deactivation	\$ 1,339	\$ 1,330	\$ 1,194	\$ (8)	-1%	\$ 136	10%	\$ 2,430	\$ 3,329	\$ 3,329
PBS TP08 WBS 1.4.10 324/327 Facility Transition	\$ 17,930	\$ 17,045	\$ 17,896	\$ (885)	-5%	\$ (851)	-5%	\$ 34,719	\$ 35,008	\$ 35,128
PBS TP14 WBS 1.4.11 Hanford Surplus Facility Program (300Area Revitalization)	\$ 923	\$ 958	\$ 641	\$ 36	4%	\$ 317	33%	\$ 2,833	\$ 2,694	\$ 2,694
Total	\$ 32,454	\$ 31,707	\$ 29,738	\$ (747)	-2%	\$ 1,970	6%	\$ 62,077	\$ 52,032	\$ 52,202

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.86	0.90	0.89	1.29	1.00	0.94	0.99					
MONTHLY CPI	1.60	0.90	0.87	0.96	0.98	1.10	1.44					
FYTD SPI	0.86	0.88	0.89	0.98	0.98	0.97	0.98					
FYTD CPI	1.60	1.10	1.01	0.99	0.99	1.01	1.07					
MONTHLY BCWS	\$3,649	\$5,158	\$4,089	\$3,855	\$4,290	\$5,980	\$ 5,433	\$7,338	\$5,386	\$4,937	\$6,457	\$5,506
MONTHLY BCWP	\$3,131	\$4,646	\$3,654	\$4,973	\$4,270	\$5,635	\$ 5,398					
MONTHLY ACWP	\$1,954	\$5,141	\$4,195	\$5,206	\$4,357	\$5,135	\$ 3,750					
FYTD BCWS	\$3,649	\$8,807	\$12,896	\$16,751	\$21,041	\$ 27,021	\$ 32,454	\$39,791	\$45,177	\$50,114	\$56,571	\$62,077
FYTD BCWP	\$3,131	\$7,777	\$11,431	\$16,404	\$20,674	\$ 26,309	\$ 31,707					
FYTD ACWP	\$1,954	\$7,095	\$11,290	\$16,496	\$20,853	\$ 25,988	\$ 29,738					

COST VARIANCE ANALYSIS: (+ \$2.0M)

WBS/PBS

Title

1.4.1/TP01 B Plant

Description and Cause: The unfavorable cost variance is due to unplanned costs associated with the ventilation filter change outs and ductwork repairs.

Impact: Deprives other projects of funding for current year priorities including accelerated deactivation activities.

Corrective Action: BCR FSP-00-008, which funds the B Plant action items, is approved and will be implemented in May.

1.4.6/TP12 Transition Project Management

Description and Cause: The favorable cost variance is primarily due to the PHMC restructuring which has mapped personnel from the sub-project to other sub-projects (i.e. Nuclear Material Stabilization), resulting in underruns in labor and contractor support. While the project is reporting a significant favorable cost variance, the actual status for River Corridor is a favorable cost variance of \$317K.

Impact: The current Fiscal Year Spend Forecast (FYSF) projects a \$1M funding shortfall at fiscal year end for River Corridor.

Corrective Action: Re-planning of this account to reflect the new structure has been completed. BCR FSP-2000-038, which documents the split of the sub-project is approved and will be implemented in May. Additionally, funds have been identified to offset the shortfall that occurred in the separation of this account.

1.4.8/TP10 Accelerated Deactivation

Description and Cause: The favorable cost variance that is being reported is due to labor underruns in MinSafe activities under the current baseline.

Impact: None.

Corrective Action: Upon approval of the BCR in process, which documents the re-baselining of Accelerated Deactivation activities, the underrun will be eliminated.

1.4.10/TP08 324/327 Building Deactivation

Description and Cause: The unfavorable cost variance is primarily due to performance of unfunded accelerated 327 Building deactivation work scope via AWA (super stretch performance incentive). This is partially offset by efficiencies that are being realized in both the performance of MinSafe activities and deactivation scope.

Impact: None. Spending against AWAs is being closely monitored.

Corrective Action: Cost of work being performed via AWA is being measured separately and will be reconciled at year-end.

1.4.11/TP14 HSFP 300 Area Revitalization

Description and Cause: The favorable cost variance is primarily due to less than planned costs in Min Safe surveillance and corrective maintenance activities.

Impact: None.

Corrective Action: Funds made available via underruns will be utilized toward achievement of accelerated deactivation activities.

All other PBS variances are within established thresholds.

SCHEDULE VARIANCE ANALYSIS: (-\$0.7M)

All PBS variances are within established thresholds.

ISSUES

Technical Issues

Issue: Shipping of ten grout containers filled with 1A Rack to be completed by May 2000. One has curie levels above limits allowed for shipment.

Impact: New Safety Analysis Report for Packaging (SARP) will be required for single high-curie container. RL Milestone TRP-99-907 currently states all 1A Rack grout containers are to be shipped by May 2000.

Corrective Action: A Baseline Change Request has been approved through DOE-RL, which authorizes any 10 grout container shipments to accomplish TRP-99-907. Currently, ten shipments have been completed. This is the last report on this issue.

DOE/Regulator/External Issues

Issue: Approval by the U.S. Department of Energy – Headquarters (DOE-HQ) of the Unirradiated Uranium (UU) billet Safety Analysis Report for Packaging (SARP) is required by May 31, 2000. Performance Incentives encourage the accelerated disposition of this material; however, review and approval time frames do not support attempts to accelerate shipments.

Impact: Failure to gain approval on or before May 31, 2000 will jeopardize the combined shipment of UU billets and T-Hoppers, thus losing the opportunity to save approximately \$200,000 in FY 2000. Performance Incentive RC3-SS Uranium Disposition will be impacted by the inability to ship billets and T-Hoppers in FY 2000.

Corrective Action: A revision to the SARP, which limits the amount of criticality analysis, may expedite the review process. Timely DOE-HQ review and approval of billet Safety Analysis Report for Packaging (SARP) is critical for disposition. Review of the billet Safety Analysis Report for Packaging has been initiated by DOE-HQ for approval.

Issue: Timely receipt of the U. S. Department of Energy - Richland (RL) review/comments on the Steel Waste Disposal Box (SWDB) Safety Analysis Report for Packaging (SARP) is critical to maintain the schedule for Tri-Party Agreement interim milestone M-89-02. The SARP was submitted to RL on February 4. In accordance with the *324/327 Buildings Stabilization/Deactivation Project, Project Management Plan (PMP)* (HNF-IP-1289, Rev. 3), the completion date for this review was March 31.

Impact: The project is at risk in both cost and the *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* interim milestone M-89-02 schedule if design altering comments are received from RL. The first SWDB has been received from the manufacturer prior to SARP approval.

Corrective Action: The contractor has worked closely with RL to resolve comments. A revised SARP (incorporating RL initial comments) has been transmitted to RL, with completion of comment/approval cycle expected by RL on May 26. Design altering comments are not anticipated. This issue now nears closure.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT			DATE TO CCB	CCB APRVD	RL APRVD	CURRENT STATUS
				SCH	TECH				
FSP-00-002	11/2/99	Mark-42 Project Completion	\$0		X	04/05/00			In review cycle w/FH CCB
FSP-00-008	12/3/99	B Plant Action Items	\$139		X	05/03/00	05/04/00	N/A	Approved
FSP-00-022	1/31/00	327 Accelerated Deactivation	\$4,573	X	X	04/05/00	04/07/00		In review cycle w/RL
FSP-00-023R1	4/21/00	Sprt. to 300 Area Accel. Cleanup and Redevelopment	\$280		X				In development
FSP-00-026	2/29/00	Increase in TRU Grout Containers	?		X				On-Hold
FSP-00-031	3/22/00	Revisions to Milestones TRP-99-907 & TRP-99-909	\$0			04/05/00	04/13/00		In review cycle w/RL
FSP-00-033	3/23/00	Uranium Disposition Project	\$0		X	04/05/00	04/13/00	N/A	Approved
FSP-00-034	3/24/00	Delete Milestone TRP-99-301	\$0			04/05/00	04/13/00		In review cycle w/RL
FSP-00-036	4/5/00	242/B/BL Carryover Workscope	\$47		X	05/03/00	05/04/00	N/A	Approved
FSP-00-037	4/12/00	Added Sprt. to National Facility Deact. Initiative	\$378		X	05/03/00	05/04/00	N/A	Approved
FSP-00-038	4/20/00	Restructuring of PBS RL-TP12	-\$215		X	05/03/00	05/04/00	N/A	Approved
FSP-00-039	4/21/00	HEPA Filter Vulnerability Assessment	\$50		X			N/A	In development
FSP-00-041	4/23/00	Rate Change Impacts to River Corridor Project	-\$45			N/A	N/A	N/A	Project Level approval
FSP-00-042	5/4/00	Prepare Engineering Evaluation/Cost Analysis	\$40		X				In development
ADVANCE WORK AUTHORIZATIONS									
AWA	10/1/99	327 Stabilization/Deactivation Project	\$1,500	X	X			02/07/00	BCR #FSP-2000-022
AWA	2/24/00	Uranium Disposition Project	\$50	X	X			03/02/00	BCR #FSP-2000-033
AWA	4/21/00	Prepare Engr. Evaluation/Cost Analysis for 300 Area	\$40		X	4/24/00	4/24/00	05/03/00	BCR #FSP-2000-042
AWA	4/24/00	Support to 300 Area from Greenfield	\$240		X	4/24/00	4/24/00		FSP-2000-023R1
AWA	4/24/00	Procure Shipping Boxes for Uranium Disposition Project	\$135		X	5/3/00			Pending
AWA	4/24/00	Paint T-Hoppers in Preparation for Shipping	\$40		X	5/3/00			Pending

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	0	0	0	0	0	0	0	0
DNFSB	0	0	0	0	0	0	0	0
DOE-RQ	1	0	0	0	0	0	0	1
RL	1	1	0	2	0	1	0	5
Total Project	2	1	0	2	0	1	0	6

Tri-Party Agreement / EA Milestones	
M-92-13 (TRP-00-902), "Submit 300 Area SCW Project Management Plan," due 9/29/00	<ul style="list-style-type: none"> Completed 6 months early (3/28/00).
M-92-14 (TRP-02-901), "Complete Removal of Phase I 300 Area Special Case Waste,"	<ul style="list-style-type: none"> Completed 30 months early, pending acceptance of the plan by Ecology (03/28/00).
M-89-02 (TRP-99-901), "Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B Cell Mixed Waste (MW) and Equipment," due 11/30/00	<ul style="list-style-type: none"> Work towards completion of M-89-02 continues on schedule.
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 - 2

TRP-99-933	RL	Containerize Dispersible Under 2A Rack	04/30/00	05/24/00
1.4.10				

Cause: It has been determined it is more efficient to complete dispersible collection once size reduction of miscellaneous items is completed.

Impact: No impact.

Corrective Action: No corrective action is required.

TRP-99-301	RL	Submit Final Report on WATS Closure	03/31/00	To Be Deleted
1.4.4		Activities to DOE-RL		

Cause: This report must include information obtained after the WDOE approves the Hanford Site RCRA permit which also includes the WATS permit. WDOE approval is not expected until late spring, consequently delaying the final report submittal until September 2000.

Impact: No impact. Does not delay any fieldwork.

Corrective Action: BCR FSP-2000-034, which deletes this milestone, is currently in process.

FORECAST LATE - 0

FY 1999 OVERDUE - 1

TRP-99-800	RL	End Point Improvement Method	06/25/99	To Be Deleted
1.4.8				

Cause: Resources necessary to complete this milestone were diverted to other priority work. This milestone represents an enhancement in Facility Stabilization Project’s ability to plan deactivation work, but it is not essential.

Impact: No impact. This work scope is independent of the PMBS critical path and does not impact any schedule.

Corrective Action: Deletion of this milestone is included in the BCR which re-baselines TP-10 and is currently in development.

PERFORMANCE OBJECTIVES



Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	FDH-RC-2 Accelerate 324/327 Deactivation.	On track – no issues. Current Life Cycle Schedule Variance .6% and Life Cycle Cost Variance .4%.
	FDH-RC-2SS Continue Acceleration of 324/327 Deactivation -- Complete 327 Facility accelerated deactivation activities by September 2000.	Good progress is being made in cleanout and packaging of selected legacy waste material. On track – no issues. Required funding was identified April 6, 2000.
	FDH-RC-3SS Disposition Uranium Complete disposition of ~1865 Metric Tons (MT) of Hanford Uranium by September 2000.	Review of billet Safety Analysis Report for Packaging has been initiated by DOE-HQ for approval. DOE review of the Environmental Assessment has been completed. At risk - \$140K was required May 8, 2000 and \$40K required May 15, 2000. Workarounds are being evaluated.
	FDH-RC-5SS Accelerate 300 Area Closure Project.	On track – No issues.
	FDH-RC-5SS-2 Accelerate Cleanup of zone 4 of 300 Area.	At Risk – No funds identified to support completion of physical work. Engineering Evaluation/Cost Estimate initiated in mid-April with RCP efficiencies.
Multiple	Comprehensive performance	All baseline work projected to be complete per PI requirements.

KEY INTEGRATION ACTIVITIES

- Complete National Facility Deactivation Initiative (NFDI) DOE-complex implementation plan.
- The RCP 324 Building B Cell project, along with Spent Nuclear Fuel (SNF) developed an alternative plan for the fuel removal activity. Agreement to use a longer inner canister for the fuel permits greater end shielding and allows manual welding and testing in the Cask Handling Area (CHA) rather than the more expensive, remote effort in B Cell. SNF and DOE-RL are reviewing the options study to determine cost savings against the 200 Area Interim Storage life cycle costs. Following the review, a memorandum of agreement will be issued documenting the interface between SNF and RCP.
- The DOE-HQ funded study of HLV Tank 105, located in the 324 Building is being conducted by AEA Technologies to identify and demonstrate the most effective technologies for deactivation of high dose radioactive tanks. The project technical plan, implementation plan, and the draft of the alternatives assessment are complete. Comments have been forwarded to AEA Technologies.
- An integrated project team comprised of Fluor Hanford, Inc., Bechtel Hanford, Inc., and Pacific Northwest National Laboratory has been assembled to prepare a 300 Area Accelerated Closure Plan. The planning effort is on schedule to support a July 3, 2000 transmittal date to RL.

SECTION D

SPENT

NUCLEAR FUEL



PROJECT MANAGERS

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SUMMARY

The Spent Nuclear Fuel (SNF) mission consists of the Spent Nuclear Fuel Project WBS 1.3.1.1 (Project Baseline Summary [PBS] WM01) and the subsequent Canister Storage Building (CSB) Operations Project WBS 1.3.2.1 (PBS WM02), which doesn't start until FY 2004.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 22, 2000.

The first four Multi-Canister Overpacks (MCOs) were received from Joseph Oat, Inc. Fabrication of the MCO baskets continued at the Hanford Site.

The integrated MCO/Process Pre-operational Acceptance Test on Bay 5 has been completed successfully.

Some re-tests are on-going on Bay 5, nevertheless, the bay was made available to Operations for training and procedures walkdown. Bay 4 integrated test will be initiated at completion of Bay 5 retests.

The new baseline for Cold Vacuum Drying (CVD) Facility shows that a third bay is not required, the equipment being procured for that Bay will be used as spare parts.

Fiscal year-to-date milestone performance (EA, DOE-HQ, and RL) shows that two out of three milestones (67 percent) were completed on or ahead of schedule and one milestone was completed late.

The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

ACCOMPLISHMENTS

- The Spent Nuclear Fuel (SNF) Project achieved a landmark safety milestone by working one million hours without an injury that caused a lost workday.
- Baseline Change Request SNF-2000-009, which accelerates the completion of sludge removal by one year from August 2005 to August 2004 and reduces total project life cycle cost by \$16 million, was implemented.
- Completed Canister Storage Building turnover from Projects to Operations with system turnovers in progress.
- The first four MCOs were received from Joseph Oat, Inc.

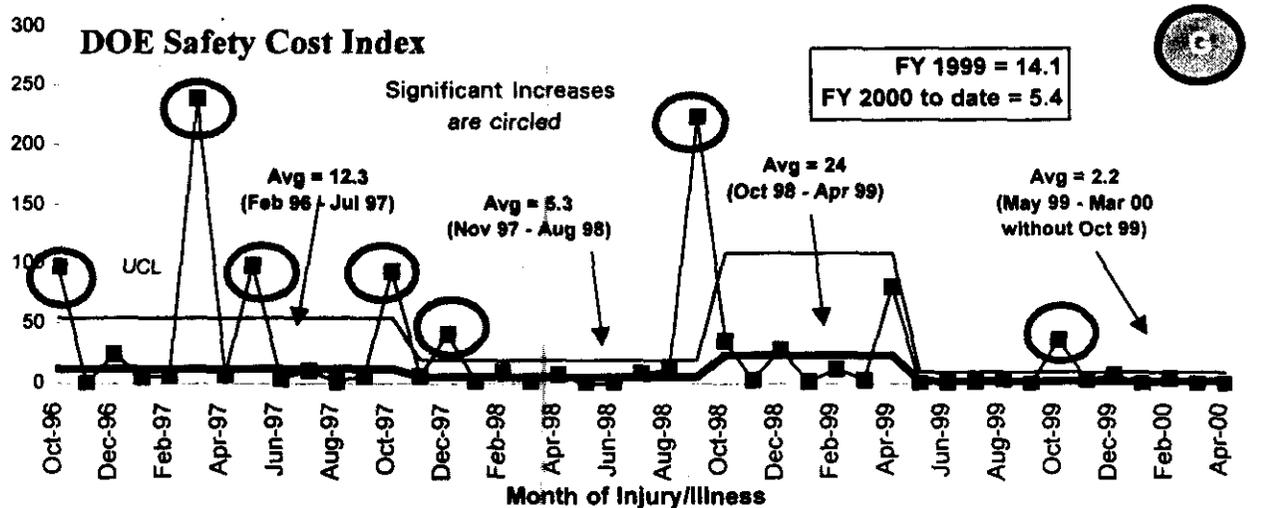
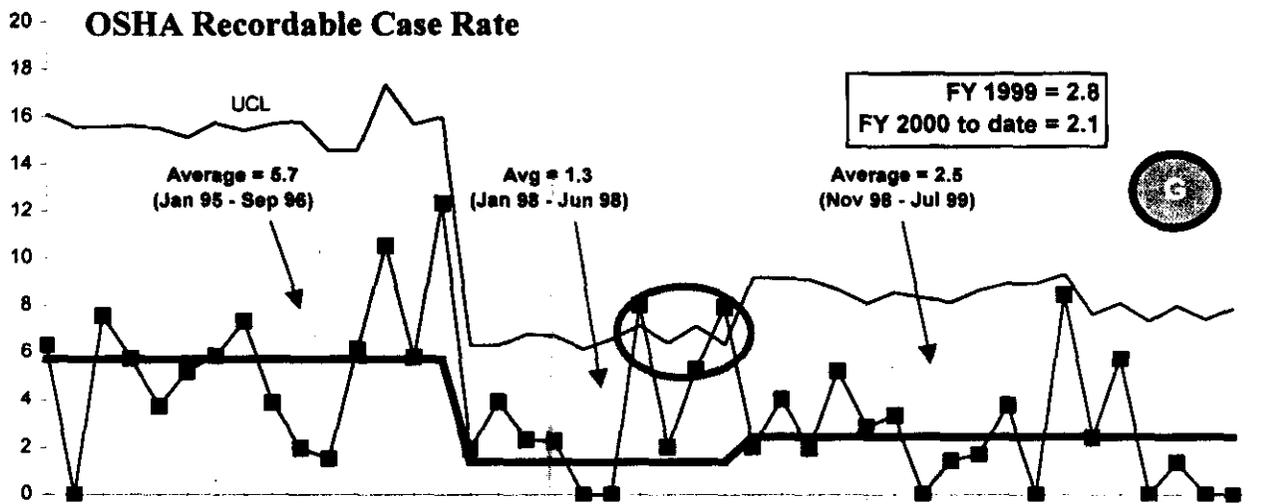
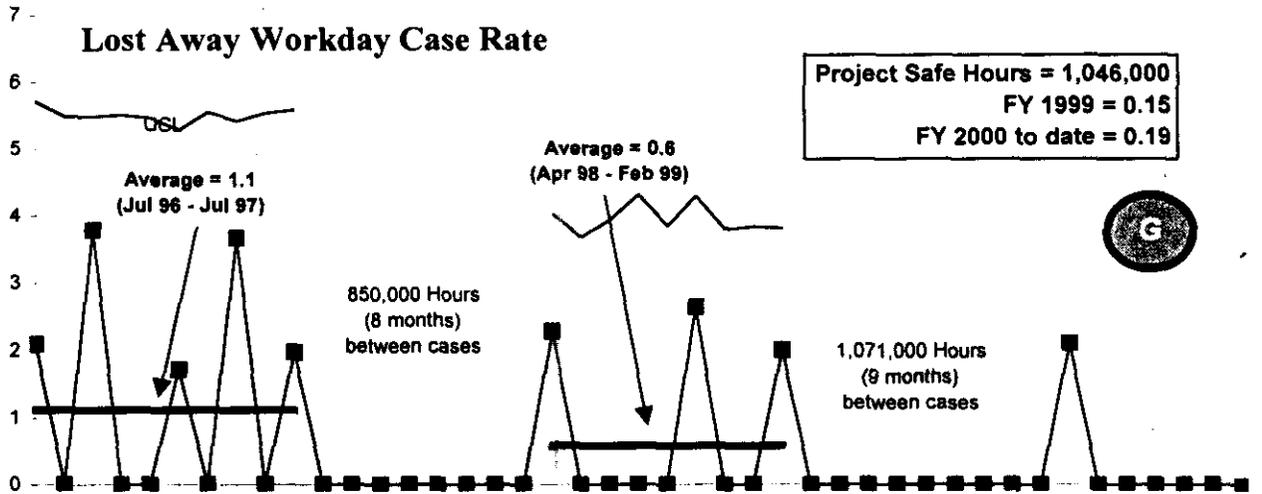
- The Cold Vacuum Drying Facility Bay 5 was turned over to Operations for training and procedure walkdown.
- The 1999 Annual Debris Report was completed and transmitted to RL. Transmittal to the Environmental Protection Agency is expected by May 31, 2000.
- Installation of the Canister Storage Building Overpack Tubes was completed.
- The Security Requirements Analysis (SRA) was completed and an unclassified version was approved and released. The SRA concluded there were no special requirements for the storage of sludge at T-Plant.
- Phase Startup Initiative (PSI) Phase 1 and II testing activities continued. Component tests of the Integrated Water Treatment System (IWTS) and the Fuel Retrieval System (FRS) were completed successfully.

SAFETY

The project has achieved over 1,046,000 safe work hours. The past ten of eleven months for the DOE Cost Index and Severity Rate have been below average. Although the SNF Project experienced some safety performance degradations with the start of FY 2000, performance continues to improve. October 1999 had two Restricted Workday Cases, and one Lost Away Workday Case. This was a nearly significant increase (close to but not above the UCL) on the OSHA Recordable Case Rate, and a significant increase (above the UCL) on the Lost / Restricted Workday Case Rate (which is a supplemental graph).

The project's safety record is improving in both OSHA recordables and DOE Cost Index. Lost away overall has had only one case in the past year.

PHMC Environmental Management Performance Report - June 2000
Section D - Spent Nuclear Fuel

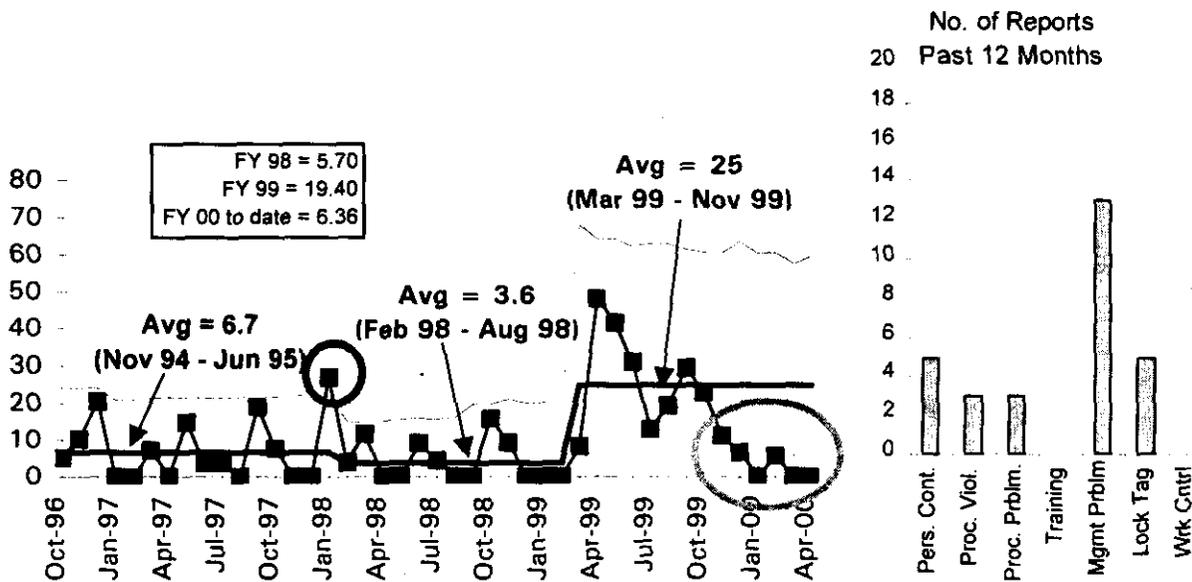


CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Events per 200,000 hours

Green



ISMS STATUS

Green

- The ISMS Phase I/II verification for the SNF Project was completed on November 19, 1999.
- The Corrective Action Plans for the “Opportunities for Improvement” were developed and transmitted to RL on January 10, 2000.
 - The actions required to enable ISMS implementation to be declared March 31, 2000 are now complete. Documentation packages have been transmitted to the Environmental, Safety & Health organization. Three of the four packages were reviewed as part of the PHMC Phase I verification. Two of the items were closed and may require further changes (slight revision to the System Description to provide further details on Construction activities).

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

- Baseline Change Request SNF-2000-009, which accelerates the completion of sludge removal by one year from August 2005 to August 2004 and reduces total project life cycle cost by \$16 million, was implemented.

Opportunities for Improvement

Phased Startup Initiative (PSI) — Results from the PSI are expected to improve the fuel production rates by approximately one month in FY 2001.

UPCOMING ACTIVITIES

Cold Vacuum Drying (CVD) Facility Testing — Testing at the CVD Facility continues to remain on the critical path. Completion of testing is scheduled for the end of June 2000.

Cask Loadout System (CLS) Testing — Complete startup testing by mid-June 2000.

Phased Startup Initiative (PSI) — Complete PSI Phases 1 & 2 in order to support start of Phase 3. Complete Phases 3 & 4 by mid-August 2000.

Storage Projects — Delivery of six more Multi-Canister Overpacks (MCO) are expected at the end of May, with eight more expected to be delivered in June. Delivery of the first shipment of MCO baskets is scheduled for May 16, 2000.

Fuel Removal Activities — Begin DOE Operations Readiness Review by mid-September 2000. Begin K West Basin fuel removal, drying & storage operations by November 30, 2000.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Spent Nuclear Fuel	\$111.3	\$123.2	-\$11.9

The unfavorable cost variance of \$11.9 million (11 percent) is primarily due to Cold Vacuum Drying Facility construction testing being omitted from the SNF baseline established in FY 1998; Hanford Site assessments higher than baseline; and facility start up cost increases as a result of first-of-a-kind equipment and testing.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Spent Nuclear Fuel	\$111.3	\$111.0	\$0.3

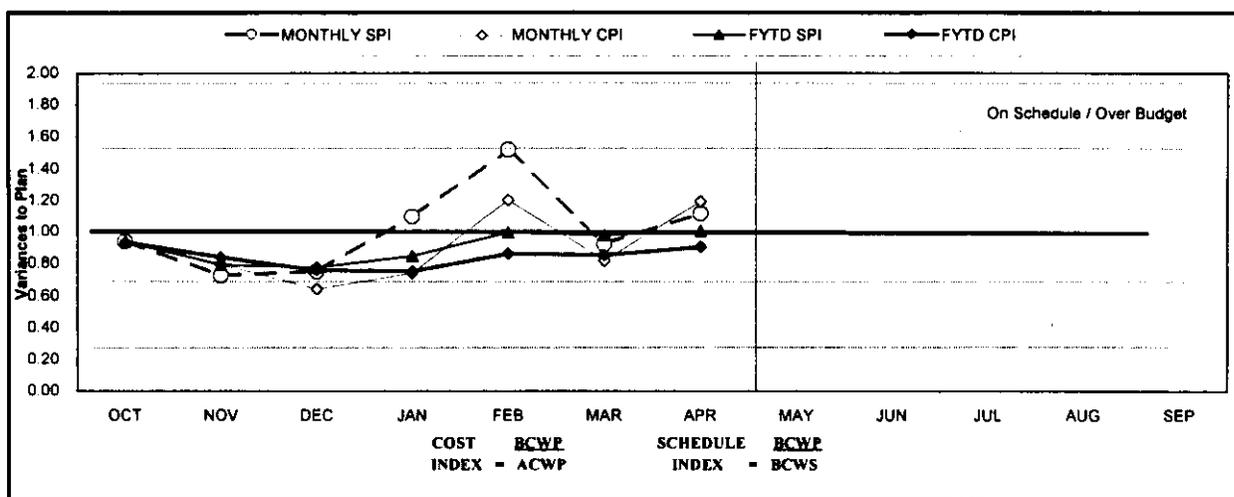
The favorable schedule variance of \$0.3 million (0 percent) is within the established thresholds.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD										
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC	
PBS WM01	Spent Nuclear											
WBS 1.3	Fuel Project	\$ 110,963	\$ 111,265	\$ 123,210	\$ 302	0%	\$ (11,945)	-11%	\$ 195,074	\$ 201,404	\$ 201,404	
Total		\$ 110,963	\$ 111,265	\$ 123,210	\$ 302	0%	\$ (11,945)	-11%	\$ 195,074	\$ 201,404	\$ 201,404	

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)

Yellow



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.94	0.73	0.75	1.09	1.52	0.92	1.12					
MONTHLY CPI	0.93	0.79	0.64	0.74	1.20	0.82	1.19					
FYTD SPI	0.94	0.79	0.78	0.85	0.99	0.98	1.00					
FYTD CPI	0.93	0.84	0.76	0.75	0.86	0.85	0.90					
MONTHLY BCWS	\$8,574	\$19,209	\$15,681	\$12,081	\$15,753	\$20,085	\$19,582	\$19,254	\$13,162	\$13,955	\$18,992	\$18,748
MONTHLY BCWP	\$8,049	\$13,968	\$11,770	\$13,221	\$23,909	\$18,511	\$21,838					
MONTHLY ACWP	\$8,626	\$17,581	\$18,370	\$17,831	\$19,906	\$22,611	\$18,286					
FYTD BCWS	\$8,574	\$27,783	\$43,463	\$55,544	\$71,297	\$91,382	\$110,963	\$130,217	\$143,379	\$157,334	\$176,326	\$195,074
FYTD BCWP	\$8,049	\$22,016	\$33,786	\$47,008	\$70,917	\$89,428	\$111,265					
FYTD ACWP	\$8,626	\$26,207	\$44,577	\$62,408	\$82,314	\$104,925	\$123,210					

COST VARIANCE ANALYSIS: (- \$11.9M)

WBS/PBS

Title

1.3.1/WM01 Spent Nuclear Fuel Project

Description/Cause: The unfavorable cost variance of \$11.9 million (11 percent) is primarily due to the Cold Vacuum Drying Facility construction testing being omitted from the SNF baseline established in FY 1998, the Hanford Site assessments being higher than the baseline, and facility start up cost increases as a result of first of a kind equipment and testing.

Impact: These overruns were anticipated changes foreseen during the contingency analysis and will be allocated through change control. Additional unanticipated cost impacts, i.e., rate

increases, Corrective Action Management, Hanford Security, and fee allocation are being compensated with appropriate site actions. In addition, Baseline Change Requests (BCRs) have been developed and reviewed and are on hold pending source availability for engineering, testing and administrative support. An \$8 million fiscal year end expense funding shortfall has been identified to FH and RL budget staff.

Corrective Action: Approve pending BCRs.

SCHEDULE VARIANCE ANALYSIS: \$0.3M

WBS/PBS

Title

1.3.1/ WM01

Spent Nuclear Fuel Project

Description /Cause: The favorable schedule variance of \$0.3M (0 percent) is within the established thresholds.

Impact: None.

Corrective Action: None

ISSUES

There are no technical, DOE, Regulator or external issues identified at this time. However, an internal DOE budget reprogramming may be required to remedy SNF's projected FY 2000 expense funding shortage.

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
SNF-2000-010	1/31/00	SNF Project FY2000 MYWP Revised Rate Impacts		N	N				In preparation.
SNF-2000-013	3/6/00	Delayed Scope for TGA Sample Disposal		Y	Y				Transmitted to FH CCA 3/28/00. On Hold.
SNF-2000-014	3/20/00	FY2000 Budget Authority Increase	\$1,300	N	N				Transmitted to FH CCA 3/28/00. On Hold.
SNF-2000-016	3/24/00	Defer Site-Wide SNF Project Activities to Align with Site-Wide Prioritization	(\$1,300)	Y	N				In Project Controls Review.
SNF-2000-019	5/9/00	FRS/IWTS Phased Startup Initiative Adding Phased III and IV to Baseline	\$2,500	Y	Y				In preparation.
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report.							

SPENT NUCLEAR FUELS – WBS 1.3 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
RL	0	0	1	0	0	3	0	4
Total Project	2	0	1	0	0	3	0	6

Status as of 5/22/2000

Green

Tri-Party Agreement / EA Milestones

Number	Milestone Title	Status
M-34-14A (S06-97-009)	"Complete K West Basin Cask Facility Modules"	Due 2/29/00 — Completed on schedule
M-34-04 (S01-99-124),	"Submit Remedial Design Report/Remedial Action Work Plan for the K Basins"	Due 3/31/00 – Completed over 1 month early (2/10/00).
M-34-05 (T01)	"Submit Report on Quantities, Character, and Management of K Basins Debris"	Due 5/31/00 – Submitted to RL on 5/9/00. On schedule for RL submittal to EPA.
M-34-16 (S00-01-900)	"Initiate removal of K West Basin Spent Nuclear Fuel"	Due 11/30/00 - On schedule.
M-34-06-T01	"Initiate K West Basin Spent Nuclear Fuel Canister Cleaning Operations"	Due 12/31/00 - On schedule.

DNFSB Commitments

	Nothing to report.

MILESTONE EXCEPTION REPORT

Nothing to report.

PERFORMANCE OBJECTIVES

Readiness for Fuel Movement (RC-1-1.a-I) — Contractor completion of construction and operational testing, Management Self-Assessment (MSA), and Independent Operational Readiness Review (ORR) by September 14, 2000 to begin moving fuel by November 30, 2000. Start of fuel movement is currently on track for November 30, 2000.

Green

Phased Startup Initiative (PSI) (RC-1-1.a-II) — Complete PSI Phases 1 & 2 by April 15, 2000. This includes successful Cold Testing of Integrated Water Treatment System (IWTS) & Fuel Retrieval System (FRS). This activity is behind schedule due to required changes to the IWTS Control System Software. This accelerated non-critical path testing activity continues to allow KW Basin system problems to be uncovered and fixed much earlier than the baseline schedule.

Accelerate Fuel Movement (RC-1SS-1) — Accelerate start of fuel movement by two months. Assumes no problems during first fuel movement and no ORR or MSA discrepancies.

Yellow

Phased Startup Initiative (PSI) (RC-1SS-2) — Complete Phases 3 & 4 by August 15, 2000. This includes completion of FRS/IWTS system testing using SNF (real fuel) and Completion of Construction Documentation Phase II (CCD2). (This documentation represents progressing from start-up to Operations.) This activity is on schedule.

Green

KEY INTEGRATION ACTIVITIES

- Spent nuclear fuel (SNF) final disposition interface activities, including Office of Civilian Radiation Waste Management (OCRWM) Quality Assurance (QA) Program implementation, ongoing with National SNF Program.
- K Basins sludge removal and Shippingport (PA) Pressurized Water Reactor Core 2 SNF removal implementation activities ongoing with Waste Management Project.
- 324 Building (B Cell) SNF removal acceptance criteria and conceptual design reviews ongoing with River Corridor Project.
- Neutron Radiography Facility, Training, Research and Isotope Production, General Atomics (TRIGA), and FFTF SNF relocation planning ongoing with FFTF Project.
- Input provided to BHI on recovery actions required if SNF is discovered during upcoming reactor basins deactivation.
- Completed assessment and documentation for the Canister Storage Building's readiness to support the receipt of Immobilized High Level Waste (IHLW) from ORP.

SECTION E

ADVANCED

REACTORS

TRANSITION



PROJECT MANAGERS

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SUMMARY

The Advanced Reactors Transition (ART) Program, WBS 1.12.1.1, PBS RL-TP11, consists of the 309 Building and the Nuclear Energy (NE) Legacies activities.

NOTE: Unless otherwise noted, Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 18, 2000.

In April the ART mission area technical accomplishments included continued surveillance and maintenance activities on the 309 Building and NE Legacy facilities. The final rinse was performed in the large T-plant tank, previously cleaned of sodium residue. The pH of the rinse water after circulation was approximately 8.9. This value is well below the upper limit of pH 11 for disposal in the process sewer; therefore the approximately 300 gallons of rinse water was drained into the process sewer. Visual inspection of the tank interior showed the tank to be satisfactory for salvage or recycle. A FFTF Plant Review Committee (PRC) meeting was held to review the operation for removing NaK residue from the 337B cold trap cooling loop. The bulk NaK had been drained from this system in 1998. Nondestructive examination of the low spots in the system showed a small amount of NaK had collected. The PRC approved the concept of moist nitrogen reaction of the NaK. However, the PRC will re-convene to give final approval for the residue reaction operation following the drain of the small amount of NaK residual including hookup of the connecting piping between the cleaning station and the system. The PRC will also conduct a "what-if" session to review normal and emergency actions and approve the cleaning operation procedure.

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

ACCOMPLISHMENTS

- Continued surveillance and maintenance activities on 309 Building and NE legacies.
- Final rinse was performed in the large T-Plant tank, previously cleaned of sodium residue.
- A PRC meeting was held to review the operation for removing NaK residue from the 337B cold trap cooling loop.

SAFETY

Safety data for ART is included in a separate FFTF report.

CONDUCT OF OPERATIONS / ISMS STATUS

CONDUCT OF OPERATIONS

Conduct of operations data for ART is included in a separate FFTF report.

ISMS STATUS

FH DOE Phase I Verification was completed during April.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement have been identified at this time.

UPCOMING ACTIVITIES

- Continue cleaning of the sodium potassium (NaK) residuals from the 337B Building cold trap cooling loop.
- Initiate general cleanout of lower containment level of the 309 Bldg. / PRTR facility.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Advanced Reactors Transition	\$0.8	\$0.7	+\$0.1

The favorable (ten percent) cost variance is due to no significant corrective maintenance activities required.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Advanced Reactors Transition	\$0.8	\$0.7	+\$0.0*

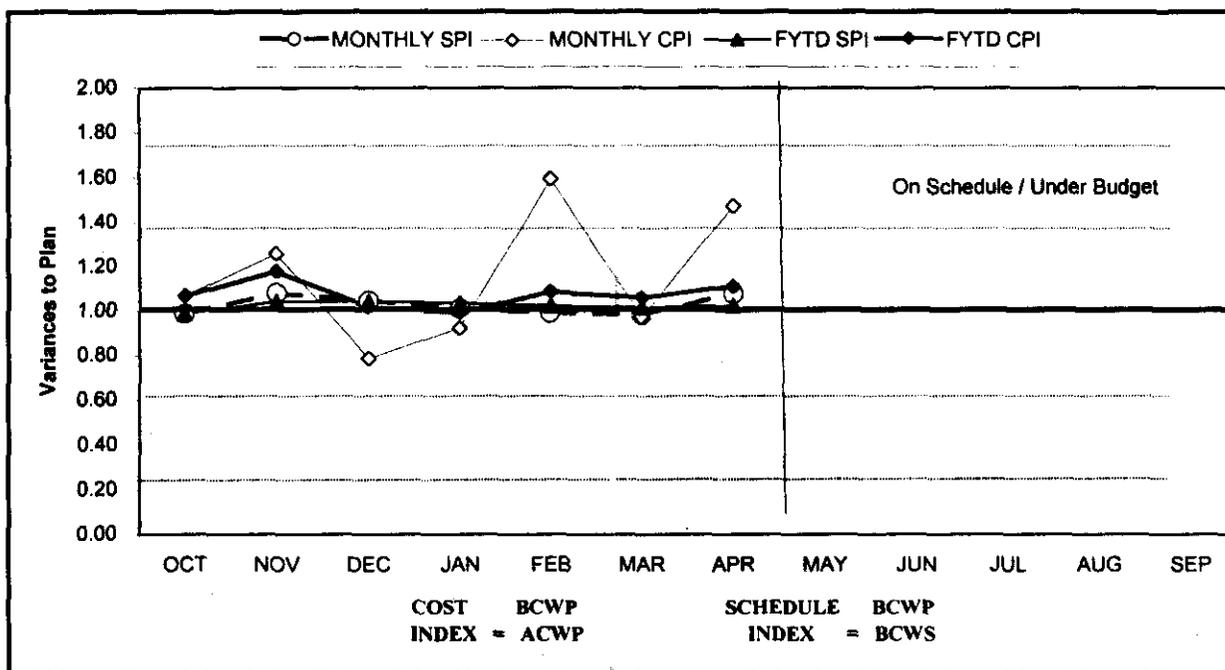
*Rounding

There is no schedule variance.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

By PBS		FYTD									
		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
PBS TP11	Advanced Reactors	\$ 743	\$ 761	\$ 686	\$ 18	2%	\$ 76	10%	\$ 1,472	\$ 1,105	\$ 1,105
WBS 1.12	Transition										
Total		\$ 743	\$ 761	\$ 686	\$ 18	2%	\$ 76	10%	\$ 1,472	\$ 1,105	\$ 1,105

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	1.08	1.05	1.01	0.99	0.98	1.08					
MONTHLY CPI	1.07	1.26	0.79	0.92	1.59	0.97	1.47					
FYTD SPI	0.99	1.04	1.04	1.03	1.02	1.01	1.02					
FYTD CPI	1.07	1.18	1.02	0.99	1.09	1.06	1.11					
MONTHLY BCWS	\$79	\$113	\$88	\$93	\$116	\$139	\$116	\$145	\$110	\$128	\$177	\$170
MONTHLY BCWP	\$78	\$122	\$92	\$94	\$115	\$136	\$125					
MONTHLY ACWP	\$73	\$97	\$117	\$102	\$72	\$140	\$85					
FYTD BCWS	\$79	\$192	\$280	\$373	\$489	\$627	\$743	\$887	\$997	\$1,125	\$1,302	\$1,472
FYTD BCWP	\$78	\$200	\$292	\$386	\$501	\$637	\$761					
FYTD ACWP	\$73	\$170	\$287	\$389	\$461	\$601	\$686					

COST VARIANCE ANALYSIS: (+ \$0.1M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**

Description and Cause: All surveillance and maintenance (S&M) resources were level loaded for the year. To date, no significant corrective maintenance activities have been required.

Impact: None.

Corrective Action: None.

SCHEDULE VARIANCE ANALYSIS: (\$0.0M)

WBS/PBS **Title**

1.12/TP11 **Advanced Reactors Transition**

Description and Cause: None.

Impact: None.

Corrective Action: None.

ISSUES

There is nothing to report at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
		Nothing to report.							
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report.							

MILESTONE ACHIEVEMENT

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

Tri-Party Agreement / EA Milestones
Nothing to report.
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

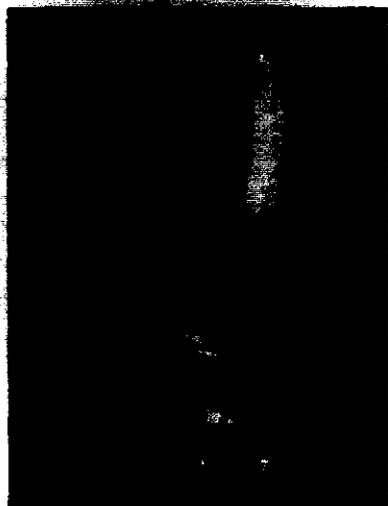
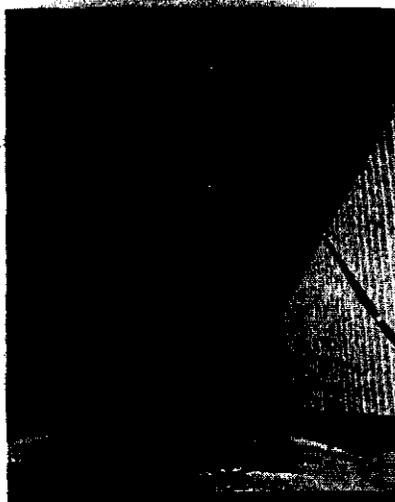
PERFORMANCE OBJECTIVES

Nothing to report at this time.

KEY INTEGRATION ACTIVITIES

Nothing to report at this time.

SECTION F



EM – 50 SCIENCE & TECHNOLOGY ACTIVITIES

EM-50 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	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	1	0	1
RL	0	0	1	2	0	1	0	4
Total Project	0	0	1	2	0	2	0	5

EM-50 EXCEPTIONS

<u>Number</u>	<u>Level</u>	<u>Milestone Title</u>	<u>BASELINE Date</u>	<u>FORECAST Date</u>
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OVERDUE - 2

49MW21/C-2 RL		Produce Report Mapping the Matrix Space	11/15/99	Proposed
2.1.1 (AMT)		in Hanford Waste Boxes		Deletion

Cause: Activities at WRAP were focused on preparing shipments to WIPP.

Impact: None.

Corrective Action: Funding for this TTP was returned to the Mixed Waste Focus Area. This task is cancelled.

49MW21/B-4 RL		Issue Software Test Reports	12/01/99	Proposed
2.1.1 (AMT)		in Hanford Waste Boxes		Deletion

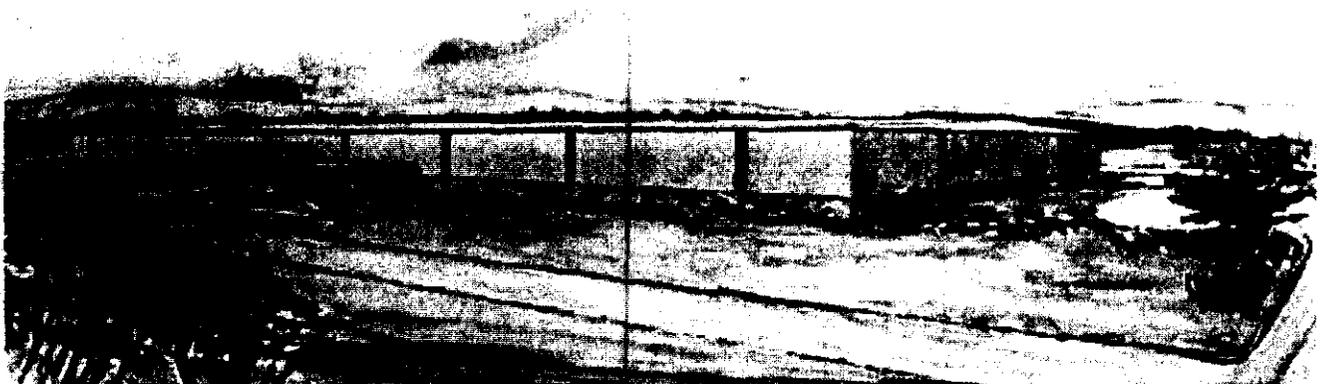
Cause: Activities at WRAP were focused on preparing shipments to WIPP.

Impact: None.

Corrective Action: Funding for this TTP was returned to the Mixed Waste Focus Area. This task is cancelled.

THE FUTURE

Hanford cleanup activities develop assets — people, experience, land, buildings, research and training facilities — that can have a positive affect on our future. They can help solve national and global problems in food production, global warming, pollution and nuclear non-proliferation. The prime contractors and subcontractors at Hanford are implementing economic development initiatives aimed at weaning the Tri-Cities from dependence on federal cleanup dollars. These initiatives are being supported with grants and by freeing up valuable site resources for use by the private sector. Examples of these initiatives are a new industrial building to attract new businesses to the area, job-creation efforts, and providing technical assistance to entrepreneurs. The Volpentest HAMMER Training and Education Center is included in this outcome. HAMMER provides training for the Hanford Site cleanup mission and the DOE complex. The Center also augments economic diversification by creating a state-of-the-art regional training industry for students from across the nation and around the world.



SECTION G

HAMMER



PROGRAM MANAGERS

J. E. Ollero, RL
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K. A. McGinnis, FH
Phone: (509) 376-9403

SUMMARY

The Hazardous Materials Management and Emergency Response (HAMMER) mission area consists of the HAMMER project, WBS 1.9.1.1, Project Baseline Summary (PBS) HM01.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of the end of April 2000. All other information is as of May 21, 2000.

Volpentest HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During April one hundred forty-six classes were conducted at the Volpentest HAMMER facility, for a total of 2,440 Hanford site student days. Highest attended health and safety classes included Hazardous Waste Operations, Respiratory Protection, Radiation Worker II Requalification, Basic Medic First Aid and Fire Extinguisher Training. Overall satisfaction, rated on a scale of 1 to 5 based on level one evaluations, for the month of April: Course Content 4.49, Instructor(s) 4.62, and Facility 4.52.

A total of five Hanford site Emergency Preparedness training courses were presented during April with a total of 52 students receiving training. Emergency Preparedness classes presented included the Hanford Incident Command System and Building Warden training courses.

A demonstration of a new contamination fixodent was presented at HAMMER. The product is called EKOR. It was developed and demonstrated by four Russian scientists. The American company promoting its use on the Hanford site is Eurotech. Several Hanford operations managers are interested in using EKOR in their plants to stabilize highly mobile smearable contamination on floors, grating and in facility piping. The qualification testing has been completed for the Russian and German markets and meets or exceeds the US standards. The testing of EKOR for use in the USA is presently underway and is anticipated to be completed by the end of May 2000.

Non-DOE customers utilizing the Volpentest HAMMER facility for training activities, via the established HAMMER User Agreement process, included Advance Silicon Materials, Asotin Fire District #1, Energy Northwest, GE McPherson, Eurotech, Ltd., WA. Association of Sheriff's & Police Chiefs, Douglas County Sheriff, and WA. State Criminal Justice Training Commission. These training activities generated approximately \$7,000 of revenue for HAMMER. Generating revenue is included in the FY 2000 MYWP workscope activities for HAMMER, and will assist in reducing costs to DOE of providing site training.

Fiscal-year-to-date milestone performance (EA, DOE-HQ and RL) shows that one milestone (100 percent) was completed on or ahead of schedule.

ACCOMPLISHMENTS

- Trained 2,440 Hanford site student days at HAMMER.

Section G - HAMMER

- Presented five Emergency Preparedness training courses.
- Presented a demonstration of a new contamination fixodent.
- Eight non-DOE customers utilized the Volpentest HAMMER facility for training activities.

HAMMER currently has no status to report in the areas of ISMS Status, Breakthroughs and Opportunities for Improvement.

UPCOMING ACTIVITIES

- The Fire Operations Product Line will be developing programs that employ HAMMER props to train individuals who must meet new technical rescue standards.
- The Fire Operations Product Line is working with the U. S. Forest Service to establish training plans for fire fighters that rappel from helicopters. The rappelling course may involve construction of a new prop that could be used for other types of training - SWAT responders and military customers, for instance.
- The next Foreign Border Enforcement Training course will be conducted in June 2000. Additionally, an International Customs class will be conducted in September 2000.
- A Global Positioning System equipment training course has been scheduled for August 2000.
- An Archeological Resources Protection Act Incident Investigation class has been scheduled for October 2000.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
HAMMER	\$3.4	\$3.1	\$0.3

The cost variance is within established thresholds.

SCHEDULE PERFORMANCE (\$M):

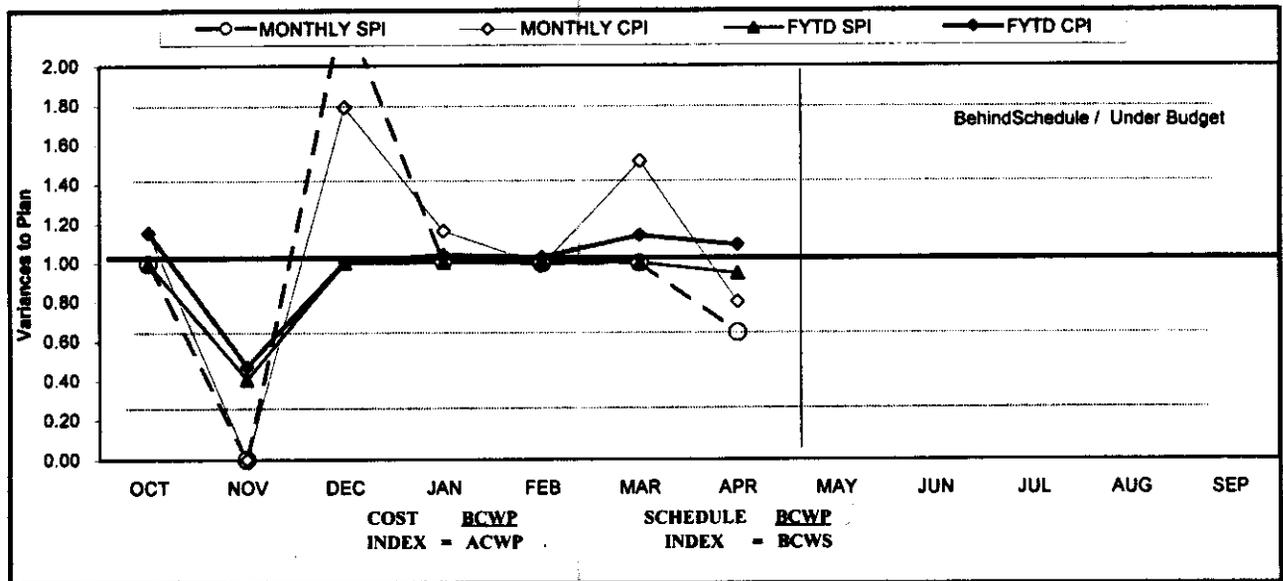
	BCWP	BCWS	VARIANCE
HAMMER	\$3.4	\$3.6	-\$0.2

The schedule variance is within established thresholds.

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES CUMULATIVE TO DATE STATUS - (\$000)

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
PBS HM01	Hammer	\$ 3,568	\$ 3,375	\$ 3,091	\$ (194)	-5%	\$ 284	8%	\$ 6,206	\$ 5,906	\$ 5,906
WBS 1.9.1											
Total		\$ 3,568	\$ 3,375	\$ 3,091	\$ (194)	-5%	\$ 284	8%	\$ 6,206	\$ 5,906	\$ 5,906

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	0.00	2.28	1.01	1.00	1.00	0.64					
MONTHLY CPI	1.16	0.00	1.79	1.16	0.99	1.51	0.80					
FYTD SPI	0.99	0.41	1.00	1.00	1.00	1.00	0.95					
FYTD CPI	1.16	0.47	1.01	1.04	1.03	1.14	1.09					
MONTHLY BCWS	\$ 352	\$ 507	\$ 396	\$ 418	\$ 440	\$ 914	\$ 541	\$ 589	\$ 447	\$ 447	\$ 589	\$ 565
MONTHLY BCWP	\$ 350	\$ -	\$ 904	\$ 422	\$ 438	\$ 913	\$ 347					
MONTHLY ACWP	\$ 303	\$ 439	\$ 305	\$ 363	\$ 443	\$ 603	\$ 435					
FYTD BCWS	\$ 352	\$ 859	\$ 1,255	\$ 1,673	\$ 2,113	\$ 3,027	\$ 3,568	\$ 4,157	\$ 4,604	\$ 5,052	\$ 5,640	\$ 6,206
FYTD BCWP	\$ 350	\$ 350	\$ 1,254	\$ 1,676	\$ 2,114	\$ 3,027	\$ 3,375					
FYTD ACWP	\$ 303	\$ 742	\$ 1,247	\$ 1,610	\$ 2,053	\$ 2,656	\$ 3,091					

COST VARIANCE ANALYSIS: (\$0.3M)

WBS/PBS TITLE

1.9.1.1/HM01 HAMMER

Description and Cause: The variance is within thresholds.

Impact: None

Corrective Action: None

SCHEDULE VARIANCE ANALYSIS: (-\$0.2M)

WBS TITLE

1.9.1.1/HM01 HAMMER

Description and Cause: The variance is within thresholds.

Impact: None.

Corrective Action: None.

ISSUES

Nothing to report at this time.

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
HMR-2000-002	4/12/00	Adjust FY 2000 MYWP Baseline	(\$300)	N	Y	4/24/00	5/12/00	N/A	Approved
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report.							

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	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	1	0	0	0	0	4	0	5
Total Project	1	0	0	0	0	4	0	5

Tri-Party Agreement / EA Milestones
Nothing to report.
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

MULTIPLE OUTCOMES

Projects that bridge more than one outcome are included here. These projects include Landlord, Support, and National Programs. Further descriptions are included in each section.

SECTION H

LANDLORD



PROJECT MANAGERS

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SUMMARY

The Landlord mission area consists of the Landlord Project, WBS 1.5.1, Project Baseline Summary (PBS) RL-TP13.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 15, 2000.

Workscope for Project L-298 "FY 2000 Road Refurbishments" is being modified per Baseline Change Request (BCR) LPM-2000-005. This BCR defers the overlay of Route 11A between the Yakima Barricade and Route 4S to FY 2001. The revised FY 2000 roadwork includes:

- Widening and overlay of the Rattlesnake Barricade Access Road in order to make permanent safety improvements.
- Overlay of Route 1 from Route 4N to K Ave., K Ave. from Route 1 to the 100K entrance (an additional 3,300 feet of paving inside 100K Area is being added to the design effort at the request of Spent Nuclear Fuel), and Route 4S from Route 11A to Route 3.

Definitive Design has been initiated and the schedule supports the start of paving in July with completion by September 29 (RL Milestone LLP-00-440).

Completed the Definitive Design for project L-309 "Replace Section of Main Water Lines in 200E" on April 18, ten days ahead of schedule. This project replaces approximately 1,500 feet of inadequate two-inch sanitary water line in 200 East Area near the 272AW Building with a new six-inch line. This section of water line supports vital Waste Management facilities. The original line was installed as a temporary service line in 1982 and is currently beyond its useful life. Award of a fixed price construction contract is anticipated by the end of June to support construction completion by September 29 (RL Milestone LLP-00-415).

Project L-312 "2101M, MO-235, & Associated Buildings Storm Drainage Resolution" resolves storm drainage problems around facilities in 200 East and West Areas (2101M, 2753E, 283W, and mobile offices MO-047, -234, -235, -251, -252, & -285). This project involves the installation of catch basins, dry wells, grading, and paving around various 200 Area facilities to properly drain stormwater away from these facilities. The fixed price construction contract was awarded on May 8. During the definitive design the resolution of the storm drainage problems were more extensive than originally identified. Based on the fixed price construction low bid of \$150,000, the project Estimate at Completion (EAC) is approximately \$125,000 over the current budget (\$375,000 versus \$250,000). Based on efficiencies in other Landlord Project activities, the total scope is being funded to resolve these long standing safety issues. The completion of construction is on schedule for August 4 (RL Milestone LLP-00-435) and the project closeout is planned for completion by September 29.

The replacement of two Emergency Services ambulances funded in FY 1999 were received and accepted onsite on April 4, approximately three months behind schedule. These ambulances were received late from the vendor, due to chassis shortages. Currently, these two ambulances are being fitted with Site Communication Systems and are expected to be in service in May. The order to replace the last (beyond its replacement life) Emergency Services ambulance was placed in April and delivery onsite is due by September 29, 2000.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, Field Office, and RL) shows one milestone overdue for completion of Definitive Design for Project L-314, "Law Enforcement and Security Training Center Renovations". A Baseline Change Request is in process to delete this milestone. Workscope has been deferred due to funding reductions directed by RL.

ACCOMPLISHMENTS

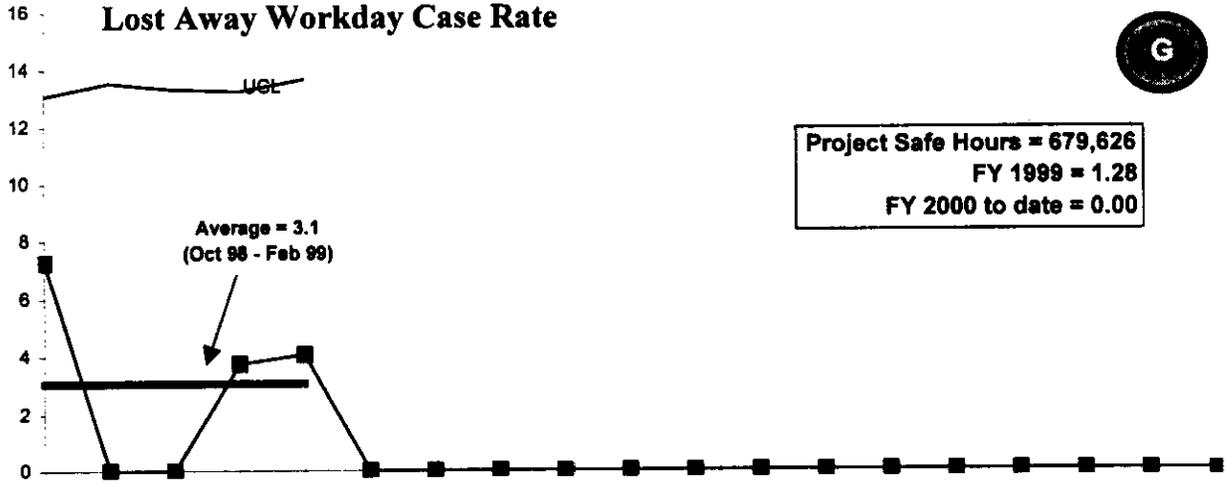
Additional lighting in the south parking lot for 2750E Building was required to resolve employee concerns associated with inadequate lighting levels. This project was added to the Landlord Project baseline in January 2000 by BCR LPM-2000-001 to resolve this employee concern on an accelerated basis. Overall construction was completed approximately two months ahead of schedule on April 4 and approximately \$10,000 (\$75,000 versus \$85,000) under budget.

SAFETY

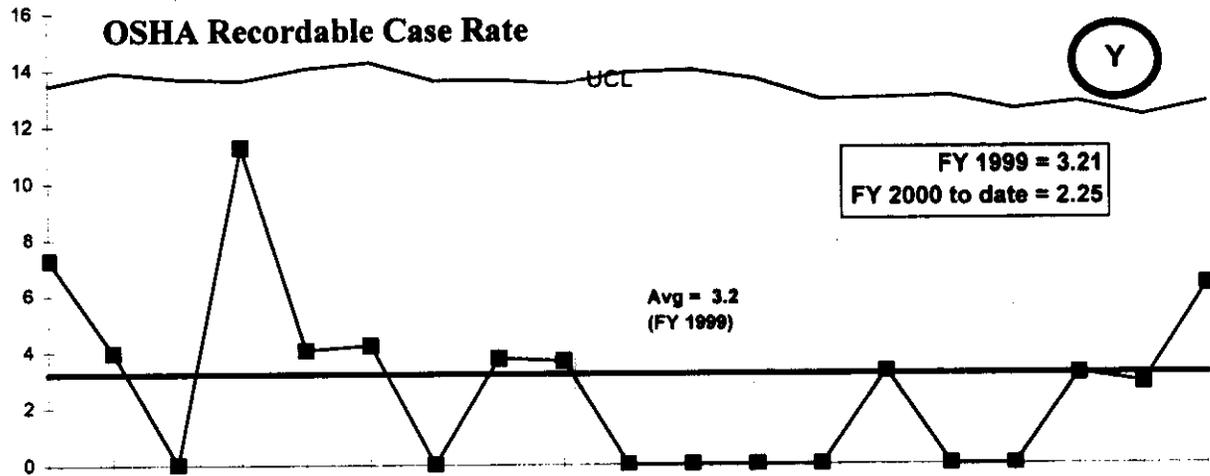
FY 1999 performance was stable for case rates, but was very unstable in terms of severity (days away and restricted). FY 2000 is stable.

PHMC Environmental Management Performance Report - FY 2000
Section H-Landlord

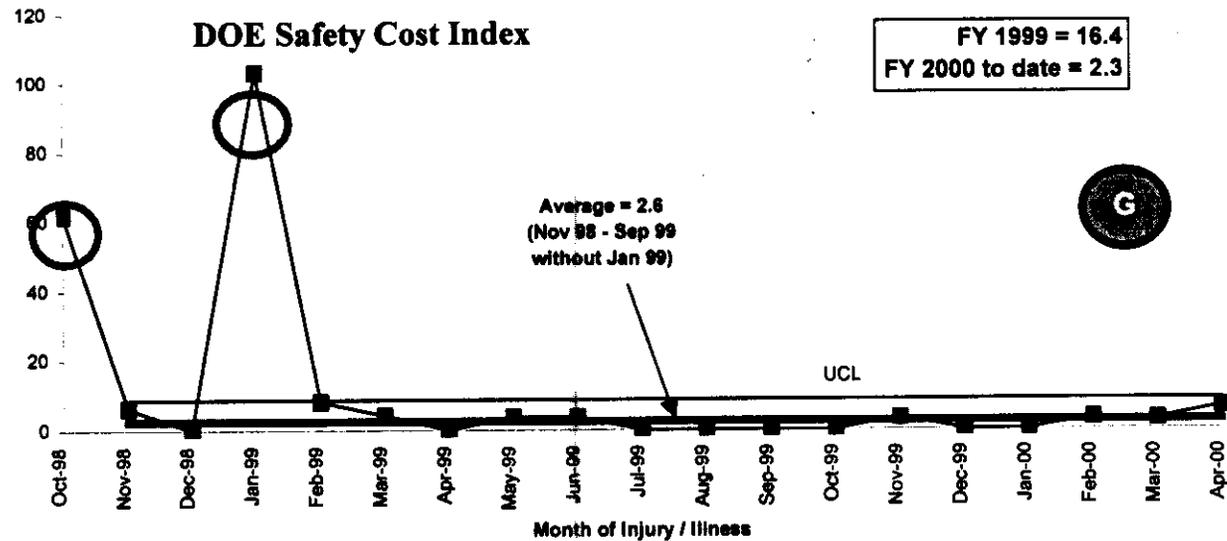
Lost Away Workday Case Rate



OSHA Recordable Case Rate



DOE Safety Cost Index



ISMS STATUS

Green

NOTE: The Infrastructure program includes the Landlord Project and the indirect Infrastructure. Both of these areas are covered under one ISMS program, therefore the ISMS activities described below are for the entire Infrastructure program, which includes Landlord.

- Continue to resolve the 16 concerns identified in DynCorp’s ISMS Verification report. All 16 items are on schedule to be completed by July 1, 2000.
- Developing a Safety Improvement Plan which focuses on the “human” side of safety.
 - One-on-One Safety Discussions with Employees
 - Managers with Employees on the Job and in the Workplace
 - May 16th Presentation to DynCorp Safety Leadership Emphasizing the importance of the “Human” Element of Safety
 - Quarterly Focused Injury Reduction Campaigns
- Voluntary Protection Program (VPP) application for status has been submitted to DOE.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

- Nothing to report at this time.

Opportunities for Improvement

- Nothing to report at this time.

UPCOMING ACTIVITIES

- Complete final Project Priority List for fiscal years 2001, 2002, and 2003 by May 17, 2000. The finalized PPL supports the development of the Landlord Project FY 2001 Multi-Year Work Plan.
- Complete Definitive Design for Project L-310, “Distribution Water Line” which replaces a 2.5-mile section of the 24” export water line to the 200 West Area by May 26, 2000.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Landlord	\$ 6.4	\$ 3.9	\$ 2.5

The \$2.5 (39% percent) favorable cost variance is mainly attributed to the auction of six cranes for which a credit was received. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Landlord	\$ 6.4	\$ 7.4	-\$ 1.0

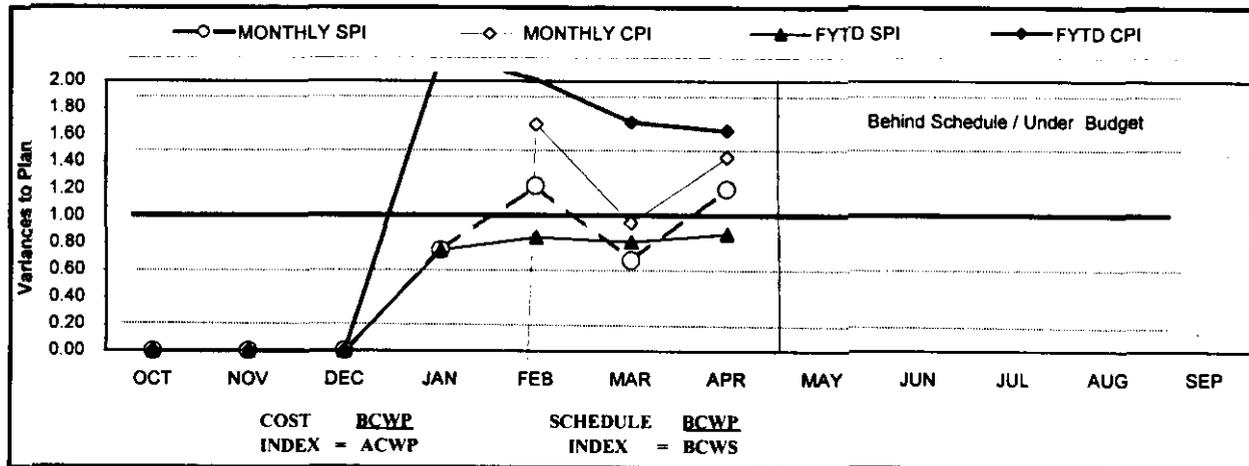
The \$1.2 (13 percent) unfavorable schedule variance is mainly attributed to Definitive Design for the renovations of water and restrooms facilities workscope which is being deferred to next fiscal year via a BCR.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD										
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC	
PBS TP13	Landlord	\$ 7,394	\$ 6,417	\$ 3,932	\$ (977)	-13%	\$ 2,485	39%	\$ 14,327	\$ 13,366	\$ 15,043	
WBS 1.5.1	Total	\$ 7,394	\$ 6,417	\$ 3,932	\$ (977)	-13%	\$ 2,485	39%	\$ 14,327	\$ 13,366	\$ 15,043	

Note: Landlord EAC includes carryover funding of \$1,677K for committed GPP's.

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.00	0.00	0.00	0.75	1.22	0.67	1.20					
MONTHLY CPI	0.00	0.00	0.00	-19.23	1.68	0.95	1.43					
FYTD SPI	0.00	0.00	0.00	0.75	0.84	0.81	0.87					
FYTD CPI	0.00	0.00	0.00	2.20	2.01	1.69	1.63					
MONTHLY BCWS	\$0	\$0	\$0	\$3,994	\$1,016	\$1,269	\$1,115	\$1,385	\$1,145	\$1,186	\$1,430	\$1,786
MONTHLY BCWP	\$0	\$0	\$0	\$2,981	\$1,243	\$854	\$1,339					
MONTHLY ACWP	(\$197)	\$943	\$767	(\$155)	\$741	\$899	\$934					
FYTD BCWS	\$0	\$0	\$0	\$3,994	\$5,010	\$6,279	\$7,394	\$8,780	\$9,925	\$11,111	\$12,541	\$14,327
FYTD BCWP	\$0	\$0	\$0	\$2,981	\$4,224	\$5,078	\$6,417					
FYTD ACWP	(\$197)	\$746	\$1,513	\$1,358	\$2,099	\$2,998	\$3,932					

COST VARIANCE ANALYSIS: (+\$2.5M)

WBS/PBS

Title

1.5.1/TP-13

Landlord

Description/Cause: The \$2.5 million (39%) favorable cost variance is mainly attributed to trade in of six cranes in which a credit was received. Procurement of one new crane will be received next year (long lead procurement). In addition, the Municipal Planning process and the Infrastructure Plan (IP) are under-running because they are behind schedule due to priorities related to completion of the Comprehensive Land Use Plan. Efforts to hire a subcontractor in lieu of using internal labor to complete the IP are underway. Demolition cost for building 609C for Project L-270, Emergency Services Renovation was not as high as planned. Workscope for this project is being completed on a fixed price contract and construction cost will be higher than planned, reducing the cost variance. Also, line item funding that has been returned (for Headquarters 10% Reprogramming) is still in the baseline and reflecting a cost variance.

Impact: No impact to overall project and/or final cost.

Corrective Action: A requisition has been entered into Passport to procure the new crane, which replaces the six sold at auction. A BCR is in process that defers workscope and also reprograms line time funding on completed projects.

SCHEDULE VARIANCE ANALYSIS: (- \$1.0M)

WBS/PBS

Title

1.5.1/ TP13

Landlord

Description /Cause: The \$1.0 million (13%) unfavorable schedule variance is mainly attributed to Definitive Design for the renovations of water and restroom facilities. A BCR has been submitted to defer this workscope due to funding reductions. The BCR should be approved in May. The Municipal Planning Process and the Infrastructure Plan are behind schedule due to priorities related to completion of the Comprehensive Land Use Plan. Construction to install a new system to replace the chlorinating system at the 200 West Area Water Treatment Plant was originally planned as a fixed price contract. A Plant Forces Work Review deemed the work to be plant forces, resulting in a schedule variance. Definitive Design has been completed and procurement contracts started for materials.

Impact: Funding reductions that deferred Definitive Design for Project L-314 have been documented on BCR LPM-00-005. Other project delays are projected to be overcome with no overall impact to the project.

Corrective Action: A BCR has been processed (LPM-00-005) that defers workscope related to funding reductions. Definitive Design for Project L-314, Law Enforcement and Security Training Center will begin in FY 2001 and road refurbishment work has also been deferred.

ISSUES

There are no technical, DOE, Regulator or external issues identified at this time.

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
LPM-00-001	11/3/99	MYWP Baseline Modification (Bridge BCR FY00, 01, 02)	\$4,642	X	X	1/11/00	1/14/00	1/27/00	Approved by RL
LPM-00-003	12/8/99	Document FY99 Carryover Funds	\$1,793		X	12/13/00	1/3/00	1/3/00	Approved by RL
LPM-00-005	3/23/00	Document Rate Increase, Funding Reductions, and Impacts to Milestones	\$<318>	X	X	4/13/00	4/27/00		Approved by FH Change Control Board and Submitted to RL
ADVANCE WORK AUTHORIZATIONS									
-	3/20/00	L-298, Road Refurbishment (Rattlesnake Barricade Modifications)	\$110		X	-	-	3/23/00	Scope being added to baseline per BCR LPM-00-005.

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	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	1	0	12	0	13
Total Project	0	0	0	1	0	12	0	13

Tri-Party Agreement / EA Milestones
Nothing to report.
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>
OVERDUE - 1			
LLP-00-445 RL 1.5.1	Complete Definitive Design for Project L-314, "Law Enforcement and Security Training Center Renovations"	03/03/00	Proposed Deletion

Cause: Workscope has been deferred due to funding reductions directed by RL.

Corrective Action: A Baseline Change Request is in process to delete this milestone.

FORECAST LATE - 0

PERFORMANCE OBJECTIVES

The items listed below are not Performance Incentives. They are performance goals (i.e., milestones and goals between FH and the subcontractor).

Outcome	Performance Goals	Status
Restore the River Corridor for Multiple Uses & Transition the Central Plateau	Replace 1,500 Feet of 2-inch Sanitary Water Line from 272AW Building Along Canton Ave. in the 200 East Area	Definitive Design was completed on April 18, ten days ahead of schedule. The current status supports construction completion on schedule by September 29, 2000.
	Provide Vegetation and Animal Control to Reduce/Minimize the Spread of Contamination	Project has treated 3,000 acres of residual and non-selective type spraying across the Site this fiscal year to date and cleared tumbleweeds at 16 sites. Continue to monitor 699 rodent bait stations and 48 termite and ant control stations.
	Disposition 38 Abandoned Legacy Non-Radioactive Waste Sites	Project remains on schedule.
	Complete Installation of 100K/D Emergency Notification Sirens which will Complete the Total Integration of All Outside Sirens	Definitive Design for the retrofit of emergency sirens at 100K/D was completed on February 17, 2000 as scheduled and supports completion of the siren modification at 100K/D by July 28, 2000.
	Complete Emergency Services Renovation of the 200 Area Fire Station	Demolition of 609C was completed on February 23, 2000, two months ahead of schedule. Construction is ongoing with the installation of underground utilities, asbestos abatement in the West End of the building (completed on May 3), and the placement of the new building foundation in preparation of delivery of the prefabricated metal building in late May 2000. Overall project is on schedule and within budget.
	Shutdown Approx. 20 Vacant Office Facilities - Deactivate 25 Vacant Facilities	13 of the planned 20 facilities have been shutdown for the fiscal year and 22 of the planned 25 facilities have been deactivated. Project remains on schedule.
Put Assets to Work for the Future	Disposition One Well Car and One Flat Car - Surveillance and Maintenance of Legacy Rail Cars at 212R Awaiting Disposition	Radiological survey and samples of the flat car are complete. Preliminary investigation into an option to prepare the Burlington Northern Santa Fe flat cars for free release at Hanford was initiated. The National Environmental Policy Act Categorical Exclusion review package was signed on March 15 by DOE-RL.

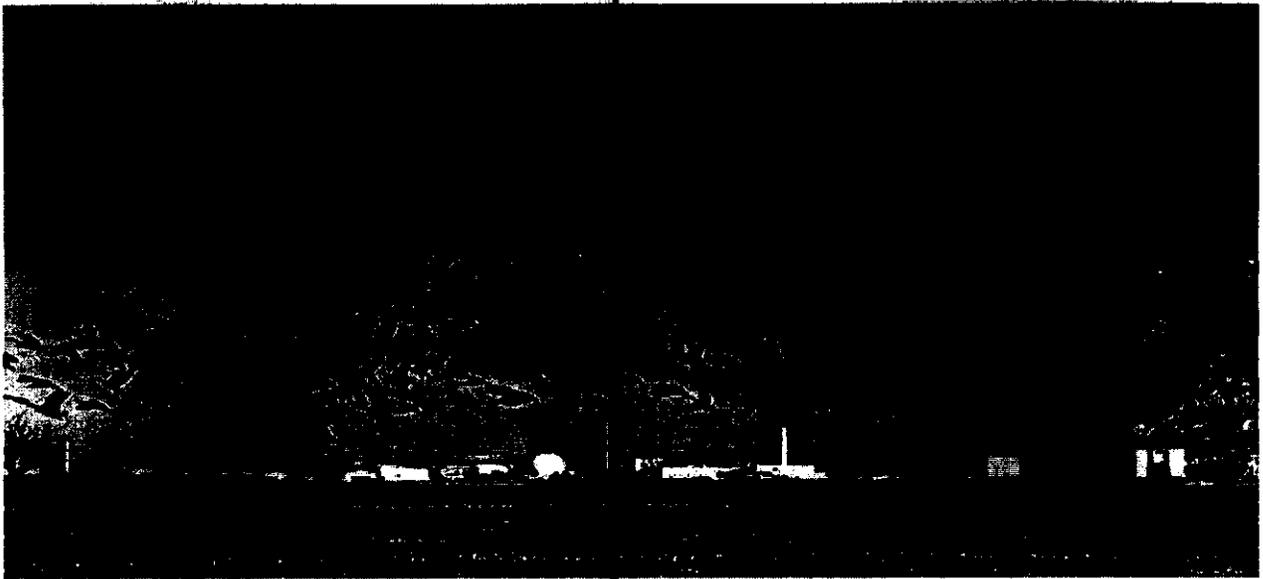
KEY INTEGRATION ACTIVITIES

Continue to support RL on the following activities to plan and manage land and resources for the Hanford Site:

- Establishing a Hanford Site Planning Advisory Board made up of cooperating agencies and Tribal representatives to support implementation of the Comprehensive Land Use Plan (CLUP).
- Developing Area and Resource Management Plans (e.g., Landlord Infrastructure Master Plan) to support implementation of the CLUP.
- Assisting DOE in identifying mandatory requirements functions, interfaces and relationships for successful long-range planning and management of Site land and resources.
- Developing DOE Management System Descriptions for land use.
- Coordinating reviews and approvals for the use of land on Site.

SECTION I

SUPPORT



PROJECT MANAGERS

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SUMMARY

Mission Support, Project Baseline Summary (PBS) OT01, consists of four sub-projects:

- Planning and Integration [Work Breakdown Structure (WBS 1.8.2.1)]
- Systems Engineering (WBS 1.8.2.2)
- Environmental Compliance (WBS 1.8.2.3)
The Environmental Compliance Program is composed of two elements. These two elements were stand-alone programs known as the Hanford Environmental Management Program (HEMP) and the Effluent and Environmental Monitoring Program (EEM) prior to FY99. Although there is a single program, these elements retain their identity on the Integrated Priority List as two separate Units of Analysis.
- Public Safety and Resource Protection (WBS 1.8.2.4)

In addition, Richland Directed Activities, PBS OT04, is included in this section. It consists of general site requirements such as:

- Resource Conservation and Recovery Act [RCRA] Mixed Waste Fee (management fee)
- Department of Health (DOH) Oversight (air monitoring)
- Downwinder Litigation
- Permits/site support [State of Washington (air emissions program)]
- Emergency Preparedness Grants
- State of Oregon Hanford Oversight
- Payment in Lieu of Taxes
- Hanford Advisory Board/Miscellaneous Grants (Hanford Openness Panel)
- Uranium Mass Balance Project (Paducah)
- National Security Analysis (formerly declassification of documents)
- Other minor financial assistance grants and contracts.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of April 30, 2000. All other information is as of May 17, 2000.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that 23 of 25 milestones (92 percent) were completed on or ahead of schedule, 1 milestone (4 percent) was completed late and 1 milestone (4 percent) is overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types.

SITE PLANNING AND INTEGRATION (SP&I)

Integrated Priority List (IPL) Activities — The IPL for Hanford was submitted to DOE-

HQ on April 14, 2000. The decrement, target, target plus 10%, and Critical Needs funding levels were provided in the Integrated Planning, Accountability, and Budgeting System (IPABS) at DOE-HQ. A compliance case was also developed (using the Environmental Management [EM] Peer Review categories) and submitted to DOE-HQ. Tied to the IPL, the "What Are We Buying" justification document was prepared for use by EM staffers in talking with regulators. This document provides the approved IPL and a benefits/impact summary of each Unit of Analysis keyed to the IPL.

Project Baseline Summary (PBS) Activities — The Life Cycle Baselines and Project Baseline Summaries were also submitted in April to DOE-HQ. Following DOE-HQ review, the submission was approved on April 28, 2000 for use by EM staff to prepare for the EM FY 2002 mini-review and the FY 2002 Corporate Forum.

UNICALL — As part of the FY 2002 budget preparation process, the following FY 2002 DOE-HQ Chief Financial Officer's (CFO) UNICALL deliverables were prepared in April:

- Information Management Crosscut
- Construction Project Data Sheet
- General Plant Project
- Work for Others Report
- Motor Vehicle Statement

Resource Loaded Summary Schedule — The Resource Loaded Summary Schedule was submitted on May 10, 2000. Approval of the baseline change request to include this scope (deleting other scope) was approved on May 4, 2000. Meetings have been conducted with the Projects to review summary schedules and identify where opportunities for improvement can be made. The resource-loaded summary schedule identifies approximately 1200 activities, summarized from approximately 29,000 detailed project schedule activities. It is expected to drive improvements in summary level lifecycle schedules of Projects to include cost and logical relationships that can better facilitate management decision-making in determining/validating work scope priorities, impacts of various alternatives, and impacts due to baseline changes.

A review of the progress of development was made on April 21, 2000. Efforts to include the Environmental Restoration project in the summary product have been delayed pending receipt of schedule information from BHI.

IPABS/HANDI/PERF Systems Documentation — In response to SP&I's request, LMSI completed and delivered system design documentation for HANDI, PERF (the performance module), and four of the six EM Integrated Planning, Accountability and Budgeting System (IPABS) modules (Baseline Change Control module [BCC], Central Milestone Module [CMM], Integrated Priority List [IPL], and Project Execution Reporting Module [PERM]). This documentation gives a thorough reference of each application's use and function, provides a baseline description for future modifications, and satisfies the requirement of HNF-PRO-2778, *IRM Application Software System Life Cycle Standards*.

Mission Area Strategic Synopses — SP&I collected updated Mission Area Strategic Synopses from the projects. These synopses provide a one-page summary of the work to be performed by Mission Area with emphasis on the budget year.

Performance Management Meetings — The first quarterly performance management meeting addressing “The Future” was held on April 12, 2000. Fluor addressed its economic transition activities, a “Future” overview and an advance briefing of a planned Site Management Board presentation was given, and PNNL presented its “Activities At The Laboratory That May Lead To The Future.” The April “River” and “Plateau” performance management meetings were both cancelled.

Environmental Management Performance Report (EMPR) — The May EMPR schedule was accelerated one and one-half weeks to support the mid-year review with DOE-HQ. Delivery of bound copies occurred on May 5, 2000. This issue includes quarterly data regarding the status of Environmental Management (EM) performance measures.

Business Management Oversight Process (BMOP) Status — FH BMOP points of contact are in the process of determining existing documents and reports to demonstrate fulfillment of BMOP criteria. Some points of contact are continuing to work to modify or delete BMOP sections. In June, SP&I will collect and compile examples of the documents intended to form the required BMOP self-assessment.

SYSTEMS ENGINEERING AND INTEGRATION (SEI)

Technical Baseline Products — Systems Engineering and Integration continued to support the projects in the PBS process. SE&I is currently working through inter-site discrepancies between shipping and receiving sites and the technology needs of the PBS update in IPABS.

SE&I continues to support in the Schedule Options Study. SE&I is also supporting the effort to integrate the 100 Area strategy, the 300 Area strategy, base operations analysis, infrastructure strategy and the 200 Area strategy.

Management Systems Solutions – FH Systems Engineering and Integration continues to work with CH2MHill (CHG) Systems Engineering and DOE-RL to determine future support to the Hanford Site Technical Database (HSTD) as the source of data for various HQ data calls. Based on recent organizational actions taken at CHG, there is a concern that future support to the HSTD may be discontinued.

The reconfiguration of the Configuration Management Plan and its implementing documentation is continuing. It will be released for review upon approval of HNF-PRO-589, which is expected in mid July.

SE&I Infrastructure — SE&I is developing a web page that will link to the Project Support and Management Systems web pages.

Project reviews of the strawman output of the site-staffing model are progressing. Completion of the review and comment incorporation is expected in mid June.

Significant efforts associated with the startup of the new software platform (SLATE) for the Integrated Requirements Management System and the HSTD began this month. Activities include installing SLATE clients, participation in a workshop to define integrated SLATE processes, coordination of SLATE training scheduled later this month, and definition of SLATE schema. SE&I is also assessing the feasibility of using SLATE as a tool to manage PFP criticality safety documents.

ENVIRONMENTAL COMPLIANCE PROGRAM (ECP)

RCRA Permit Revision and Implementation

- Continued coordination and support for preparation of an Appeal of the Modification E proposed Permit modifications. Held several meetings to develop strategy and identify information and resources required for appealing the Permit. Prepared briefing on status and path forward for senior management.
- Coordinated the RCRA Permit Steering Committee meeting. Issued draft meeting minutes for review/comment, and issued the minutes as final.
- Coordinated/prepared presentation for site wide M-20 Milestone Quarterly Status meeting.
- Obtained Ecology approval on removing Dangerous Waste Training Plans from the RCRA Part B Permit Application for the 222-S Laboratory Complex.

Air

- Provided management and integration support billing verification and tracking asbestos Notice of Intent (NOI) approvals for the PHMC contractors as well as BHI, JCI, and PNNL.
- Supported meetings and phone consultation as interpretive authority, project document reviews for facility modifications, and Clean Air Act (CAA) interpretations/applicability determinations.
- Verified final draft content for the Hanford Site Report.
- Drafted multi-contractor certification process for Air Operating Permit (AOP) supplement (including finalized transmittal letter to DOE and ghost letter/ certification to the agencies) as well as internal PHMC certification process.
- Provided DOE requested coordination for Ecology Air technical assistance proposal/ workshop.
- Developed pre-proposal comments on the air toxics new source review reform to WAC 173-400-110 and WAC 173-460, including coordination of multi-contractor input to Ecology.

Inspections/Assessments

- Coordinated/supported regulatory agency inspections including follow-up information for:
 - 200 Area Effluent Treatment Facility (ETF) Ecology Inspection
 - 222-S Ecology Tour
 - WRAP Ecology Tour
 - Minor stack inspection of the 291-T-1 and 296-T-7 at the T-Plant complex and stacks 296-T-11 and 296-T-12 at the TRUSAF building
 - Environmental Protection Agency (EPA) Level II inspection of the 296-W-04 at the WRAP facility
 - EPA level II inspection of the 291-Z-1 stack at the PFP complex
 - Minor stack inspection of the 296-A-22 at the 242-A Evaporator building.

- Performed environmental assessments at the request of FH facilities:
 - EPCRA Assessment of T-Plant
 - Compliance Assessment of PFP
 - Compliance support to RCP Re: Transition of the 324 Facility
 - Resource Conservation and Recovery Act (RCRA) General Assessment of 222-S
 - RCRA General Assessment of 300 Treated Effluent Disposal Facility (TEDF)
 - Multi-media General Assessment of PFP
 - Performed Clean Water Act (CWA) pre-Facility Evaluation Board (FEB) compliance assessment for PFP.

- Performed scheduled RCRA Permit required inspections of the 200 West RCRA Permit Inspection, and High Water River Inspection. Prepared RCRA Permit Quarterly Reports, plus follow-up on observations.

- Performed scheduled 600 Area Inspections along the railroad tracks across from 300 TEDF, apparent oil were observed, and on the DOE spur near Energy Northwest # 1 Plant, 20 rail engines were observed stored/staged on the tracks. Many of the engines were currently leaking to the ground. Appropriate actions were taken to notify the owners (private company) of the engines to initiate cleanup activities.

Compliance

- DOE Order 435.1 "Radioactive Waste Management" Implementation Plan submitted on schedule.
- Integrated "implementation of the contingency plan" criteria between Hanford Site prime contractors and Fluor Hanford projects as part of a Central Environmental Committee subteam.
- Assisted with the response to the M32/Ecology Notice of intent (NOI) to take enforcement action letter.

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- Continued recovery actions for the WSCF Test Method deviation issue and associated sitewide impacts, including:
 - issued two status updates for the RCRA Focus Action Plan
 - completed sitewide sample-by-sample impact review
 - attended response team meetings/briefings.
- Supported resolution of numerous "walk-in" compliance issue requests for the Nuclear Material Stabilization Project, River Corridor Project, and Site Infrastructure Project.
- Maintained operation of Exercise Action Tracking System (EATS)/issued weekly EATS compliance status reports.
- Supported/supplied compliance action information request to Office Support System (OSS) and Legal.
- Supported/supplied compliance requirements milestone status information to FH President's Office.
- Responded to several requests for information including: RCRA permits for all states in Region 10; how medical facilities handle rinsate from people who are contaminated with hazardous/chemical waste; and how the Navy Bases are regulated by Ecology, if at all, for the Underground Storage Tanks (UST) containing radiological material and hazardous waste constituents.
- Monitored/followed several environmental rulemaking activities including: Model Toxic Control Act Rule New Source Review Rule; Water Quality Triennial Review; Radiological Cleanup Standards; and Radiation Protection Air Emission Rules. New information was distributed to contact across the Hanford Site, and the Hanford Environmental Report was published on the Web with information including; EPA Issues Proposed Rule to Defer Certain Polychlorinated Biphenyls From the Phase IV Land Disposal Restriction Standards; Federal Appeals Court Settles Corrective Action Management Unit Lawsuit; and Ecology Releases Draft New Source Review Rule.

Spill and Release Reporting

- Provided reporting coordination for fourteen (14) non-reportable releases of a hazardous substance and/or a petroleum product released to the environment. All of this release were cleaned up and disposed of per state and federal requirements. There was one (1) reportable event, with a release to the environment and one (1) reportable code non-compliance event that was reported directly to the offsite regulatory agency(s) by the FH Environmental SPOC.
- The HNF-PRO-453 procedure is being rewritten for clarity with no scope impact changes to the Projects, and will be sent through the PHMC review procedure process in several weeks. The HNF-PRO-453 procedure will be incorporated within the HNF-PRO-060 as an umbrella procedure for sitewide reporting issues.

Project Support/Coordination

- The process for confirming readiness for FH to support activities for the next phase of the Office of River Protection (ORP)/British Nuclear Fuel Limited (BNFL) vitrification plant was completed. The readiness assessment package was confirmed by an independent

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review team and forwarded to ORP.

- Assisted PFP in setting up some regulatory files (in the tank system area) and met (first of two meetings) with PFP to discuss future Environmental Services (ES) help.

Chemical Management

- A team charter was finalized. The charter was subsequently transmitted to all POCs, their respective managers, and the facility/project managers.
- Continued the database fields development:
 - Information on container types and measurement units was handed out for review by the POCs.
 - A special meeting will be held to address specific mapping issues associated with the existing system data.
- Chemical Management Systems (CMS) functionality changes were completed. PNNL now has direction to revise the CMS database for FH use starting May 1.
- The new chemical evaluation process was presented, and a preferred option chosen.
- A task is underway to standardize the contract language for subcontractor's responsibilities for the management of chemicals. Preliminary information has been prepared, and a meeting with the contracting department will be held soon.
- A task has begun that will define the method(s) used to receive chemicals at the facilities.
- A task has begun that examines the Q-level inspection process, and will determine how P-card chemical purchases will integrate into this process.
- A chemical management web page has been designed and is currently on the developmental area of the intranet. The page will serve to status the project in the short term, and will be an information resource on a longer-term basis.

Management and Administrative Support

- The Environmental and Regulatory (E&R) website continues to expand. Updates of meeting agendas/minutes continue each month. Future items are being developed and posted on the site.
- A request has been made to expand the agency report to include all contractors instead of the current FH only. Work has begun on this expansion and should be complete soon.
- Prepared presentation in support of the ECP Midyear Review by DOE Headquarters EM-43
- Coordinated the participation of the ECP program in the Safety Expo activities held May 2, 3, & 4.

PUBLIC SAFETY AND RESOURCE PROTECTION (PSRP)

The PS&RP Program Projects were all conducted in accordance with the scope, milestones, and budget defined in the FY 2000 PSRP Program (PBS #RL-OT01) Multi-Year Work Plan during April.

ACCOMPLISHMENTS

Site Planning and Integration (SP&I)

- The deliverable, Submit Safeguards & Security Crosscut Exhibit for the UNICALL, was completed on April 5, 2000.
- The deliverable, Monthly EMPR was delivered on April 7, 2000.
- The deliverable, Submit Final Updated PBS Part "A" to RL, was completed on April 7, 2000.
- The deliverable, Submit General Plant Project Reports Exhibit, for the UNICALL, was completed on April 7, 2000.
- The deliverable, Submit Updated FY 2002 PBS to RL, was completed on April 13, 2000.
- The deliverable, Submit the Primary Budget -Final Energy - Arms Control - Non Proliferation Exhibit for the UNICALL, was completed on April 14, 2000.
- The deliverable, Submit Work for Others Draft Exhibit, for the UNICALL was completed on April 14, 2000.
- The deliverable, Submit Motor Vehicle Statement Draft Exhibit for the UNICALL, was completed on April 14, 2000.
- The deliverable, Submit ES&H Crosscut Draft Exhibit for the UNICALL, was completed on April 14, 2000.
- The deliverable, Submit Information Management Crosscut Exhibit for the UNICALL, was completed on April 14, 2000.
- The deliverable, Mid Year 1.8.2.1 Progress Status with RL, was completed on April 18, 2000.

System Engineering and Integration (SEI)

- An integrated model for estimating office/non-office personnel by area to support DynCorp in estimating infrastructure needs was completed on May 9, 2000. Review packets are being prepared for the projects to review their part of the model and the associated assumptions.

Environmental Compliance Program (ECP)

- Milestone ECP-00-201, "Provide RL the Mid-Year NEPA Status Report," was completed and delivered on April 12, 2000.
- Milestone ECP-00-404, "Provide RL with Air/Water Permitting Schedule," was completed on schedule. It was delivered on May 1, 2000.
- Milestone ECP-00-307, "Submit DOE Order 435.1 Implementation Plan," was completed on schedule. It was delivered on May 15, 2000.

Public Safety and Resource Protection (PSRP)

- The new 1999 climate document (PNNL-13117, *Climatological Data Summary 1999 with Historical Data*), Key Milestone RLOT011002, was completed on April 12, 2000 (seven weeks ahead of schedule), and has been sent to be printed and distributed. This document contains new information on the daily distribution of temperature and precipitation not included in previous documents.

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- The 1998 climate document (PNNL-12087, *Climatological Data Summary 1998 with Historical Data*) recently received an Award of Distinction in the Technical Report Category by The Communicator Awards, a national awards organization that recognizes outstanding work in the communications field.
- The Ecosystem Monitoring Project Biodiversity Plot Monitoring Task staff co-authored a Journal article published in winter volume of *NW Science*.
 - Link, S.O., J.L. Downs, L.L. Cadwell, J.A. Soll, M.A. Hawke, and J. Ponzetti. 2000. "Lichens and Mosses on Shrub-Steppe Soils in Southeastern Washington" *NW Science* 74(1):50-56.
- Cultural Resources Project staff completed the Gable Mountain survey during April. This joint tribal survey was conducted in conjunction with the Hanford Cultural Resources Laboratory and represented the first survey conducted of a sacred site. The approach used, which was developed by the tribal partners, will serve as a model for future surveys of sacred sites.

ISMS STATUS

ECP activities continue to support successful phase II ISMS verification. The ISMS CMS Phase II Validations/Verifications (CMS) have been completed for those facilities that have not had Phase II.

UPCOMING ACTIVITIES

- ECP-00-502: "ECRA Section 313 Toxic Chemical Release Inventory." Facility toxic chemical use data has been compiled to support evaluation of the Hanford Site reporting obligations under the Emergency Planning and Community Right-To-Know Act, Section 313, Toxic Chemical Release Reporting. Detailed evaluation of the data is in progress to determine whether a Toxic Chemical Release Inventory Report must be submitted for calendar year 1999.
- ECP-00-504: "Annual PCB Document Log - June." Work is continuing to prepare the 1999 PCB Annual Document Log. All input on PCB waste information from BHI, PNNL, and PHMC contractors has been received and reviewed for completeness and accuracy. An internal review by FH of a preliminary draft of the PCB Document Log is in progress. A working draft of the document log will be transmitted to RL and site contractors for review on May 30, 2000. The final 1999 PCB Document Log is scheduled to be delivered to DOE-RL by June 22, 2000.
- ECP-00-803: "Annual Radionuclide Air Emissions Report." A draft of the Radioactive air Emissions Report for the Hanford Site, Calendar Year 1999, is nearly ready for site wide review. Most of the certifiable data have already been received and thoroughly reviewed. The dose calculations for this offsite maximally exposed individual, which Pacific Northwest National Laboratory performs, have not been completed in time for inclusion in the draft report, but emissions are comparable to those in 1998. The projected doses, therefore, should be will beneath the federal and state standard of 10 millirem per year.

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- Annual Portable/Temporary Radioactive Air Emissions Units (PTRAEU) and HEPA Vacuum (HVU) Report to be completed by June 15, 2000.
- The PS&RP Program will complete the 1999 Site Environmental Report (FO Milestone RLOT013003) in September 2000.

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
Mission Support 1.8	\$18.1	\$20.6	-\$2.5

The \$2.5 million (14 percent) unfavorable cost variance is due to several factors. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

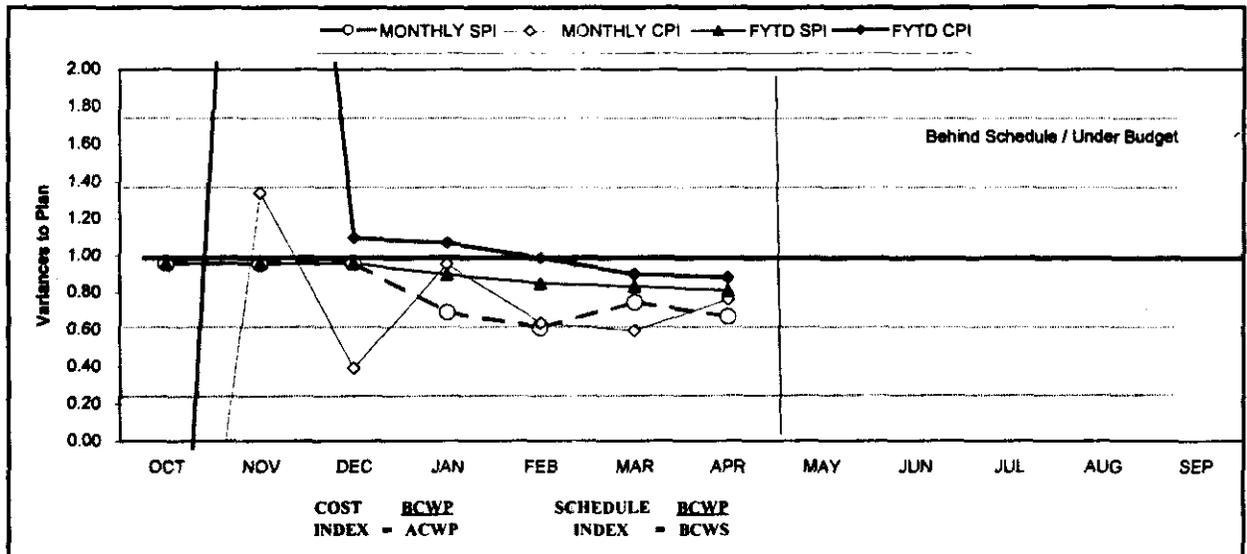
	BCWP	BCWS	VARIANCE
Mission Support 1.8	\$18.1	\$22.4	-\$4.3

The \$4.3 million (19 percent) unfavorable schedule variance is due to several factors. 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)**

		FYTD										
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC	
PBS OT04	RL Directed	\$ 8,570	\$ 5,393	\$ 7,970	\$ (3,177)	-37%	\$ (2,577)	-48%	\$ 22,053	\$ 22,053	\$ 22,053	
WBS 1.8.1	Support											
PBS OT01	Mission	\$ 13,867	\$ 12,752	\$ 12,644	\$ (1,116)	-8%	\$ 108	1%	\$ 23,649	\$ 23,025	\$ 22,850	
WBS 1.8.2	Support Other MYPs											
	Total	\$ 22,437	\$ 18,145	\$ 20,613	\$ (4,293)	-19%	\$ (2,469)	-14%	\$ 45,703	\$ 45,078	\$ 44,903	

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.96	0.96	0.96	0.69	0.61	0.74	0.67					
MONTHLY CPI	-2.27	1.34	0.39	0.95	0.63	0.59	0.76					
FYTD SPI	0.96	0.96	0.96	0.90	0.85	0.83	0.81					
FYTD CPI	-2.27	5.83	1.09	1.07	0.98	0.90	0.88					
MONTHLY BCWS	\$3,493	\$3,716	\$3,221	\$3,080	\$2,738	\$3,180	\$3,009	\$3,281	\$2,782	\$5,534	\$5,832	\$5,836
MONTHLY BCWP	\$3,339	\$3,552	\$3,087	\$2,126	\$1,666	\$2,366	\$2,008					
MONTHLY ACWP	(\$1,473)	\$2,655	\$7,937	\$2,232	\$2,630	\$3,995	\$2,638					
FYTD BCWS	\$3,493	\$7,209	\$10,430	\$13,510	\$16,248	\$19,428	\$22,437	\$25,719	\$28,500	\$34,035	\$39,867	\$45,703
FYTD BCWP	\$3,339	\$6,891	\$9,978	\$12,104	\$13,770	\$16,136	\$18,145					
FYTD ACWP	(\$1,473)	\$1,182	\$9,119	\$11,351	\$13,981	\$17,976	\$20,613					

COST VARIANCE ANALYSIS: (-\$2.5 M)

WBS/PBS

Title

1.8.1/OT04 RL Directed Support

Description/Cause: The \$2.6 million (48 percent) unfavorable cost variance is due to payments in lieu of taxes to Benton, Franklin and Grant Counties are not due to be paid until September / October time frame.

Impact: No impact.

Corrective Action: No corrective action required.

1.8.2/OT01 Mission Support

Description/Cause: The \$.1 million (1 percent) favorable schedule variance is within acceptable reporting thresholds.

Impact: No impact.

Corrective Action: No corrective action required.

SCHEDULE VARIANCE ANALYSIS: (-\$4.3 M)

1.8.1/OT04 RL Directed Support

Description/Cause: The \$ 3.2 million (37 percent) unfavorable schedule variance is due to payments in lieu of taxes to Benton, Franklin and Grant Counties are not due to be paid until September / October time frame.

Impact: No impact.

Corrective Action: No corrective action required.

1.8.2/OT01 Mission Support

Description/Cause: The \$ 1.1 million (8 percent) unfavorable schedule variance is due to SP&I awaiting approval of three BCR's which will reduce baseline work scope.

Impact: No impact.

Corrective Action: SP&I has submitted and is awaiting approval of three BCRs which will reduce baseline work scope

ISSUES

Technical Issues

Issue: Budget Update Guidance (BUG) Delay — The BUG is still not available from Mission Planning Division. It was due to FH in March.

Impact: Delay in receiving requirements for FY 2001 MYWP may result in a delay in displaying the electronic MYWP report in Handi.

Corrective Action/Status – As the Multi-Year Work Plan (MYWP) process and its products are being re-engineered, it is anticipated that FH will receive final guidance by June 15, 2000.

Issue: Contract Analytical Laboratory Audit and Findings — No new significant problems have been encountered on the Surface Environmental Surveillance Project.

Impact: Impacts are minor and are being managed with periodic contact with the contract laboratory.

Corrective Action: The audit performed in July 1999 was officially closed out.

DOE/Regulator/External Issues

Issue: Modification E to the Hanford Facility RCRA Permit — As part of recent high-level discussions between State of Washington and DOE staff, the Washington Department of Ecology has apparently decided to delay issuance of the permit, and instead enter into further negotiations over the issues of concern to DOE.

Impact: The extent of delay, and the nature and form of the negotiations, has yet to be worked out with Ecology but may require significant contractor resources to support negotiations.

Corrective Actions/Status: FH will support in negotiation efforts with Ecology.

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
SPI-2000-002	10/22/99	FY 1999 Carryover Scope	\$248	X	X	2/3/00	2/3/00			In process
SPI-2000-006	2/17/00	Modeling Tool & IPL Module Scope Additions FY 2000	\$117	X	X	2/17/00	2/17/00	5/4/00		Approved
SPI-2000-007	4/28/00	10% Reduction to FY 2000 1.8.2.1 Baseline	\$675		X					Draft
PSR-2000-001		Alignment of Budget/Scope to Funding Allocation and Incorporation of FY 1999 Carry Over	\$193	X				5/4/00		Approved
SSE-2000-003	1/31/00	Repricing Impacts to Baseline								Draft
ECP-2000-003	12/15/00	Utilization of ECP FY - 99 Uncosted Carryover	\$449							Draft
ECP-2000-004	2/15/00	Adjust Baseline to Final FY 2000 Funding Allocations and Change ECP-00-410 Milestone Date	\$161							In Progress
ECP-2000-005	4/18/00	Change Due Date for ECP Milestone ECP-00-704								In Progress
ECP-2000-006	5/2/00	Rebuild Automated Bar Coding of Air Samples at Hanford (ABCASH) System	\$193	X						
ADVANCE WORK AUTHORIZATIONS										
		Nothing to report.								

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	13	2	0	1	0	10	0	26
DOE-HQ	0	0	0	0	0	2	0	2
RL	5	3	1	0	0	14	0	23
Total Project	18	5	1	1	0	26	0	51

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Tri-Party Agreement / EA Milestones			
Number	Milestone Title	Baseline Date	Actual Completion Date/Status
ECP-00-302	RCRA Permit Class 1 Mod Notification Quarter 1 (For Year 2000-2046)	10/01/1999	09/30/1999
ECP-00-702	RCRA RPTS/DOCS Closure/Post Closure Cost Est. to RL	10/22/1999	10/06/1999
ECP-00-901	Issue Quarterly NESHAP Status RPT to RL for EPA	10/22/1999	10/20/1999
EPC-00-306	Annual Asbestos Notification of Intent (For Year 2000-2046)	12/31/1999	12/14/1998
ECP-00-303	RCRA Permit Class 1 Mod Notification Quarter 2 (For FY 2000-2046)	01/01/2000	12/16/1999
ECP-00-902	Issue Quarterly NESHAP Status RPT to RL for EPA	01/28/2000	01/17/1999
ECP-00-410	Annual PTRAEU Report to DOE-RL (For FY 2000-2046)	02/01/2000	Overdue
ECP-00-701	Annual Noncompliance Report to RL	02/17/2000	02/09/2000
ECP-00-503	1999 Hanford Site Annual Dangerous Waste Report (FY 2000-2046)	02/22/2000	02/22/2000
ECP-00-501	Tier II Emergency & Hazardous Chemical Inventory	02/23/2000	02/23/2000
ECP-00-003	Biennial Assess. Of Info. & Data Access Needs EPA/ECO (2000-2046)	03/31/2000	03/06/2000
ECP-00-801	Transmit EIS/ODIS Data to INEEL (FY 2000-2046)	04/01/2000	04/01/2000
ECP-00-802	Issue Annual Non-Radioactive Airborne Emissions Report (FY 2000-2046)	04/01/2000	04/01/2000
ECP-00-304	RCRA Permit Class I Mod Notification Quarter 3 (For FY 2000-2046)	04/02/2000	04/02/2000
ECP-00-904	Issue Quarterly NESHAP Status Report To RL for EPA	04/21/2000	04/21/2000
ECP-00-803	Issue Annual Radionuclide Air Emissions Report (For FY 2000-2046)	06/15/2000	
ECP-00-502	EPCRA Section 313 Toxic Chemical Release Inventory	06/23/2000	
ECP-00-504	Annual PCB Document Log – June	06/23/2000	
ECP-00-305	RCRA Permit Class I Mod Notification Quarter 4 (For FY 2000-2046)	07/02/2000	
ECP-00-505	PCB Annual Report – July	07/07/2000	
ECP-00-507	Annual LDR Report (M-26-01)	07/21/2000	
ECP-00-906	Issue Quarterly NESHAP Status Report to RL for EPA	07/28/2000	
ECP-00-703	Coordinate RCRA Pipe Mapping and Marking (For FY 2000-2046)	09/21/2000	
ECP-00-301	RCRA General Facility Inspections (For FY 2000-2046)	09/30/2000	
DNFSB Commitments			
Nothing to report.			

MILESTONE EXCEPTION REPORT

<u>Number/WBS Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
OVERDUE – 1			
ECP-2000-410 HQ 1.8.2.3.4	Annual Portable/Temporary Radioactive Air Emissions Units (PTRAEU) and HEPA Vacuum (HVU) Report to RL Air and Water Services	02/01/00	06/15/00

Cause: The 02/01/00 milestone due date does not reflect the due date specified in the Technical Workscope Description for this activity. The 06/15/00 due date for this milestone in the Technical Workscope Description is the correct due date.

Impact: No impact.

Corrective Action: Change Request ECP-2000-004 has been submitted to change the date in CMM to 06/15/00.

PERFORMANCE OBJECTIVES

Nothing to report at this time.

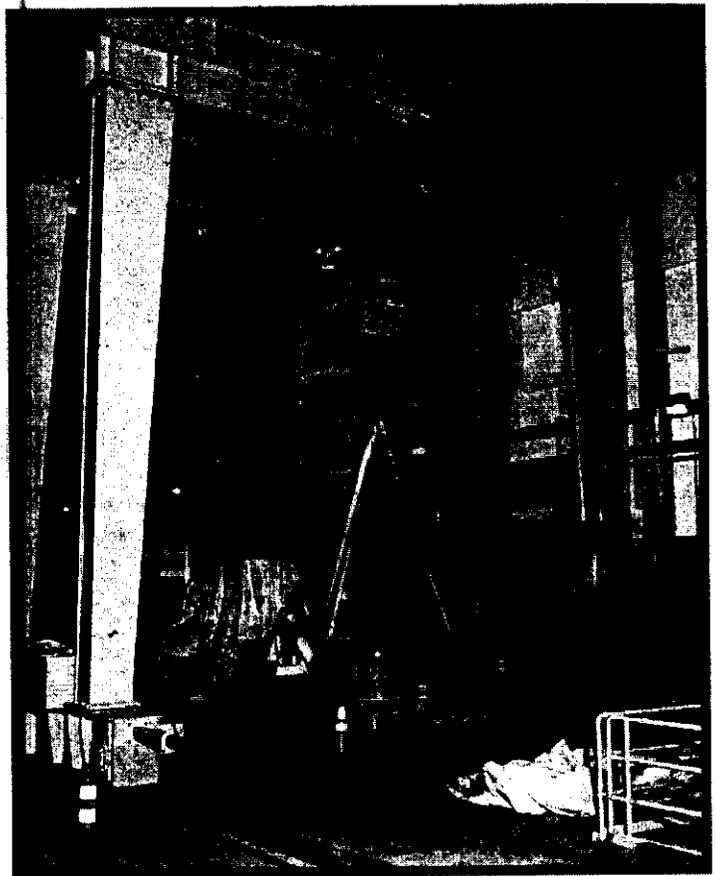
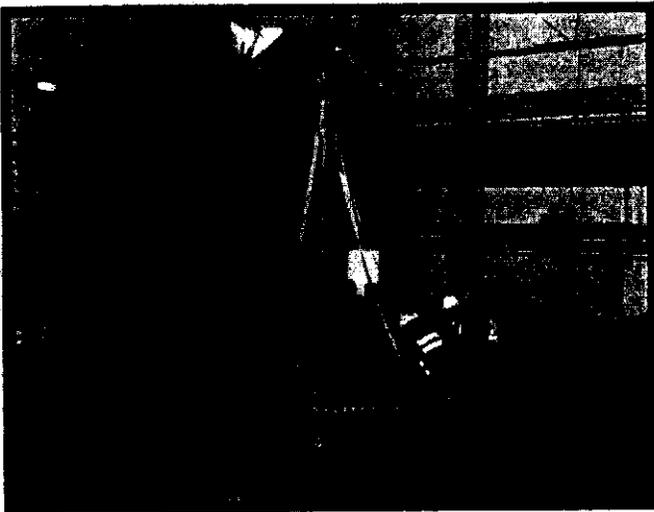
KEY INTEGRATION ACTIVITIES

Specific components of the PS&RP Program are identified as a critical core project within the Groundwater/Vadose Zone Integration Project.

SECTION J

NATIONAL

PROGRAMS



INTRODUCTION TO NATIONAL PROGRAMS

DOE EM is responsible for a variety of National Programs. DOE-HQ typically provides operations policy and programmatic guidance to one or more field office that serve as lead for individual programs. FH currently supports the following National Programs: Transportation and Packaging (PBS OT02) and Pollution Prevention and Waste Minimization (PBS WM07).

Transportation and Packaging provides full-service transportation and packaging capabilities. Packaging services for radioactive and hazardous cargo is provided, including regulatory safety-basis documentation, certification, and licensing. Packaging plans and logistical studies for major shipping campaigns are also provided, as well as approved training courses in transportation safety and waste management. Transportation and traffic logistics management, engineering and operational support to offsite customers, carrier selection and evaluation, automated transportation management systems used by the U.S. Department of Energy (DOE) complex and commercial vendors, and international transport of hazardous and radioactive packages are other services provided.

Pollution Prevention and Waste Minimization (P2/WMin) coordinates the development and implementation of a Hanford Site P2/WMin Program to comply with Federal, state, and DOE directives. The program's purpose is to achieve Site objectives through effective and efficient methodologies tailored to generator activities and operations.

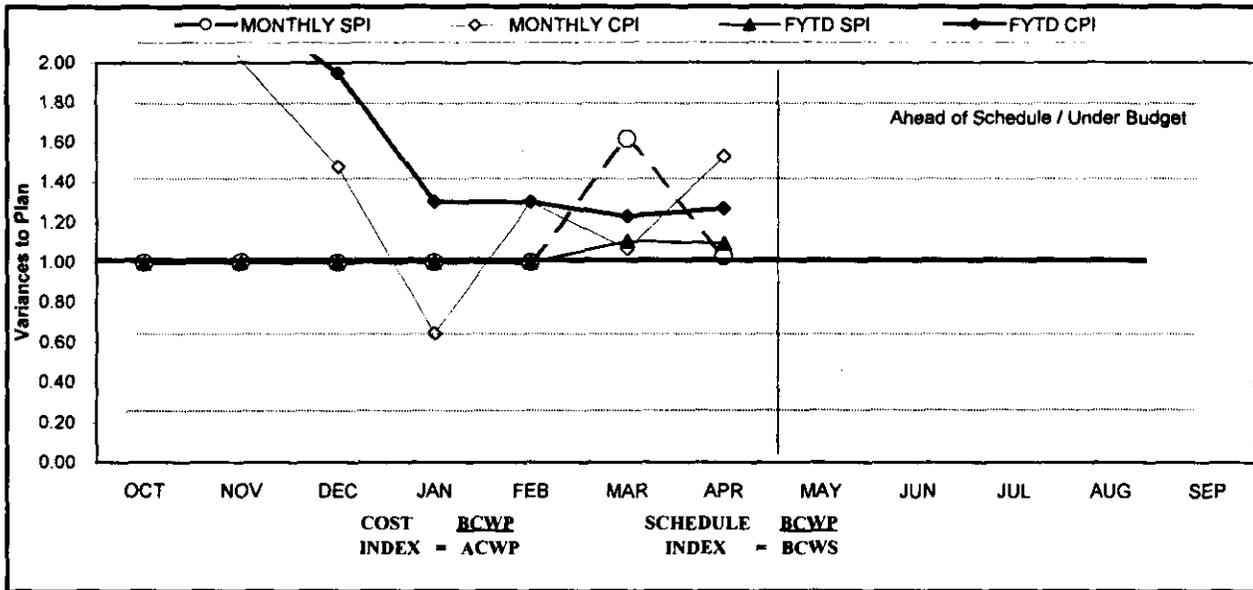
ACCOMPLISHMENTS

- The updated Safety Analysis Report Packaging (SARP) HNF-SD-017, Rev.2, for (Onsite) Multi-Canister Overpack Cask was completed and issued to RL April 12, 2000.
- The 2nd Quarter FY 2000 Hanford Site P2/Wmin Report of Accomplishments was completed and electronically forwarded to RL on April 27, 2000.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	FYSF	EAC
PBS OT02	Transportation &	\$ 1,172	\$ 1,397	\$ 1,017	\$ 225	19%	\$ 380	27%	\$ 2,106	\$ 2,024	\$ 2,468
WBS 1.11.1	Packaging (RL 7601)										
PBS WM07	Waste Minimization	\$ 1,256	\$ 1,266	\$ 1,079	\$ 10	1%	\$ 187	15%	\$ 4,072	\$ 2,575	\$ 3,681
WBS 1.11.2	(RLHQ 7770)										
Total		\$ 2,428	\$ 2,663	\$ 2,096	\$ 235	10%	\$ 567	21%	\$ 6,178	\$ 4,599	\$ 6,149

COST/SCHEDULE PERFORMANCE INDICES (APRIL 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	1.00	1.00	1.00	1.00	1.00	1.62	1.03					
MONTHLY CPI	2.81	2.01	1.48	0.64	1.30	1.07	1.53					
FYTD SPI	1.00	1.00	1.00	1.00	1.00	1.11	1.10					
FYTD CPI	2.81	2.30	1.95	1.30	1.30	1.23	1.27					
MONTHLY BCWS	\$ 304	\$ 383	\$ 328	\$ 330	\$ 324	\$ 361	\$ 398	\$ 606	\$ 473	\$ 473	\$ 619	\$ 1,578
MONTHLY BCWP	\$ 304	\$ 384	\$ 328	\$ 330	\$ 324	\$ 585	\$ 409					
MONTHLY ACWP	\$ 108	\$ 191	\$ 222	\$ 512	\$ 249	\$ 547	\$ 268					
FYTD BCWS	\$ 304	\$ 687	\$ 1,015	\$ 1,345	\$ 1,669	\$ 2,030	\$ 2,428	\$ 3,034	\$ 3,508	\$ 3,981	\$ 4,600	\$ 6,178
FYTD BCWP	\$ 303	\$ 687	\$ 1,015	\$ 1,345	\$ 1,669	\$ 2,254	\$ 2,663					
FYTD ACWP	\$ 108	\$ 299	\$ 521	\$ 1,033	\$ 1,282	\$ 1,829	\$ 2,096					

COST VARIANCE ANALYSIS: (+ \$0.6M)

WBS/PBS

Title

1.11.1/OT02 Transportation and Packaging

Description and Cause: The \$380K (27 percent) favorable cost variance is due to no MCEP evaluations being done because of a major change in the MCEP. When the revision is complete, MCEP field audits will resume which will increase both travel and labor costs. Additionally, the ATMS/ETAS integration project will not be started until FY2001, at the request of the NTP customer.

Impact: None.

Corrective Action: MCEP spending curve will increase in the later half of the year.

1.11.2/WM07 Pollution Prevention/Waste Minimization

Description and Cause: The \$187K (15 percent) favorable cost variance is due to staffing shortfalls in first half of year.

Impact: None

Corrective Action: Under-runs will be utilized to offset funding shortfall in Fiscal Year 2001.

SCHEDULE VARIANCE ANALYSIS: (+ \$0.2M)

WBS/PBS

Title

1.11.1/OT02 Transportation and Packaging

Description and Cause: The \$225K (19 percent) favorable schedule variance is due to program efficiencies.

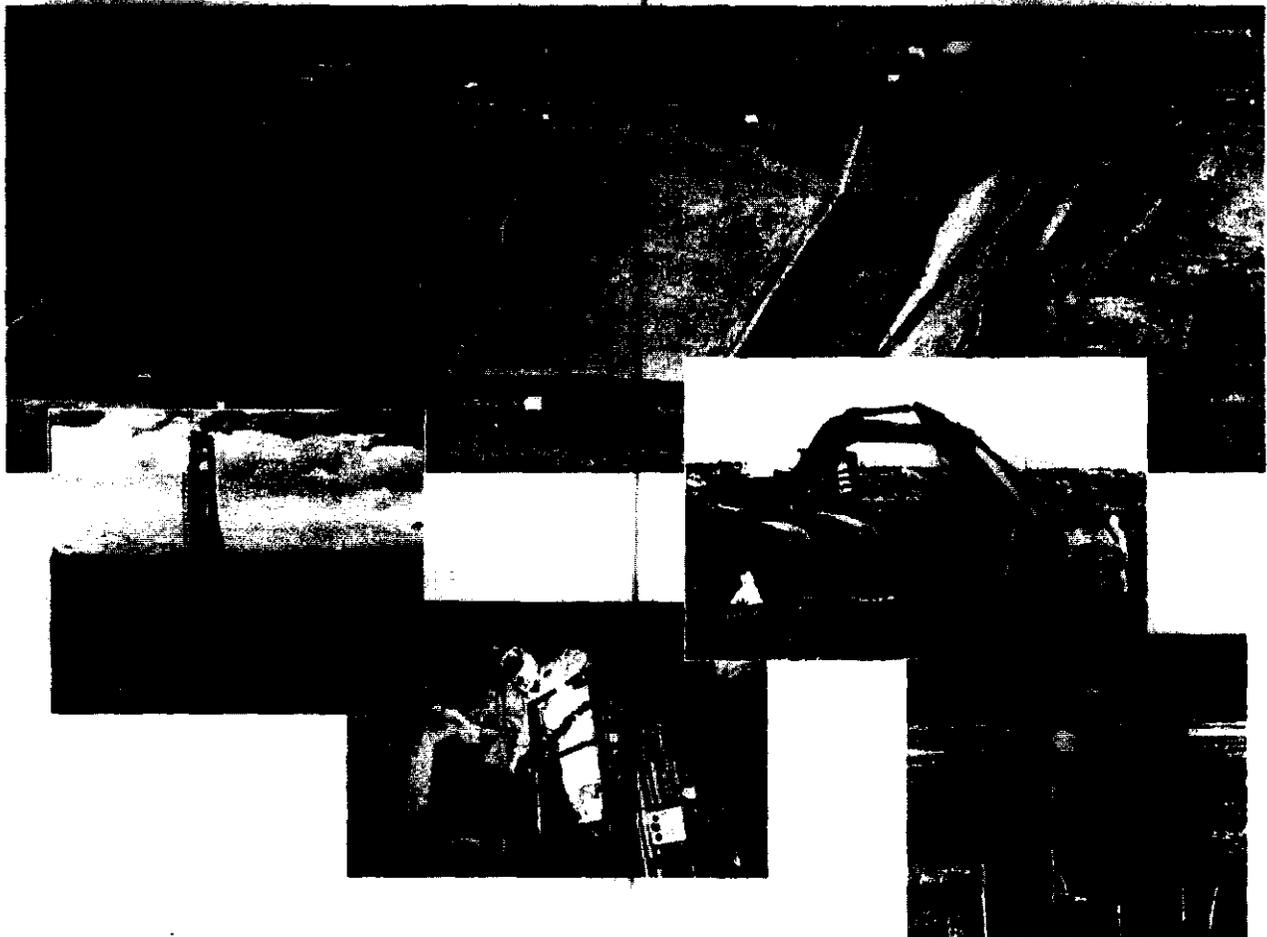
Impact: None.

Corrective Action: None.

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

June 2000



***Focused on Progress...
Focused on Outcomes!***



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000

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ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries.

Section A - Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones and FY00 Management Commitment milestones. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B - Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C - Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

**ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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**Section A:
Executive Summary**

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
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SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

NOTABLE ACCOMPLISHMENTS:

The 300 Area South Process Pond's original FY00 scope was completed in April, including all of the additional "stretch" scope that was added to the baseline in December 1999. Over 215,000 metric tons (237,000 tons) of contaminated material was removed from the South Process Pond during remediation. Work continues on Plume #4 that was discovered in March. An additional 22,611 metric tons (24,925 tons) of contaminated waste will be remediated from Plume #4.

The Washington State Department of Ecology (Ecology) approved increasing the Hanford remedial action goal for arsenic from 6.5 mg/kg to the Washington state background value of 20 mg/kg. Arsenic was used for pest control in the first half of the 1900's in orchards once located on the Hanford Site.

Draft B of the 300-FF-2 Operable Unit Focused Feasibility Study (FFS) and Proposed Plan was submitted to the regulators and HQ for final review. Public comment period is scheduled to begin in mid-June.

The 100 N Area remedial action subcontract was awarded on April 13. Soil remediation at 100 N Area is scheduled to begin in July to meet the requirements of the Hanford Site RCRA permit.

The F and DR Removal Action Work Plan was revised to incorporate the F Reactor fuel storage disposition plan and air monitoring plan.

Nine large concrete safe storage enclosure (SSE) pourbacks were completed at F Reactor.

At the D and H Reactors, pre-surveys were completed and room-by-room walkdowns and estimates were initiated for initiating interim safe storage (ISS). Supplemental funding is being pursued.

The draft B Reactor Feasibility (Phase II) Assessment Report was submitted for review on May 16.

The first-floor electrical panels and the Viewing Room stairwell conduit were removed in the 233-S Plutonium Concentration Facility during April. Installation of the hardwood airlock in the Loadout Hood Room was also completed.

A proposal was presented for the purpose of downgrading the emergency classifications of the inactive production reactors. HQ reviewed the proposal and agreed with the conclusions.

Environmental Restoration Contractor (ERC) Procurement and Property Management personnel participated in a value engineering study with other Hanford Site contractors to identify process improvements in investment recovery operations. Through implementation of the proposed changes, site-wide savings of approximately \$1.02M per year may be realized.

The HQ Integrated Planning, Accountability, and Budgeting System (IPABS) Part B budget formulation for FY02 was completed in April. Hanford Site priorities were also addressed with FHI and RL.

The 200-CW-1 and 200-CS-1 Operable Unit Remedial Investigation/Feasibility Study Work Plans (Rev. 0) were submitted to RL on April 24. The regulators also completed the data quality objective (DQO) review for 200-TW-1 and 200-TW-2.

Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
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NOTABLE ACCOMPLISHMENTS:

A draft DQO summary report for the Phase I 618-11 Burial Ground tritium investigation was issued for public review. This report will provide the basis for the Phase II tritium investigation workscope.

The In Situ Redox Manipulation (ISRM) well drilling was completed in the 100 D Area on April 24, with a total of 16 wells drilled and installed to a planned depth.

All five groundwater pump and treat systems continued removing contaminants from the groundwater. All operated above cumulative planned availability through April.

The GW/VZ draft System Assessment Capability (SAC) Rev. 0 Assessment Description, Requirements, Software Design and Test Plan was submitted to RL on April 4.

The Groundwater/Vadose Zone (GW/VZ) Integration Project's draft Science and Technology (S&T) Roadmap was issued for review on April 28.

Legacy waste removal was completed at both the KE and KW Reactors in May.

Green

**ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Green

Twelve Tri-Party Agreement milestones have been completed through April, all ahead of schedule.

Total Tri-Party Agreement Milestones Due in FY00	16
<i>Total Planned Through April</i>	<i>12</i>
<i>Total Completed Through April</i>	<i>12</i>

Remaining Tri-Party Agreement Milestones to be Completed in FY00	4
<i>Forecast Ahead of Schedule</i>	<i>1</i>
<i>Forecast On Schedule</i>	<i>3</i>
<i>Unrecoverable</i>	<i>0</i>

FY00 Management Commitment Milestones:

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Status: Complete. Draft was transmitted to RL on April 28.

Install Wells and Initiate Injection of the Barrier for Phase I of the In Situ REDOX Groundwater Remediation (PBS ER08) due September 30.

Status: Forecasted to be complete by September 30. (16-well installation completed on April 24.)

Complete the Semi-Annual Groundwater/Vadose Zone Report (December 1999 – March 2000) (PBS VZ01) due May 31.

Status: Forecasted to be completed by May 31.

EM Corporate Performance Measures:

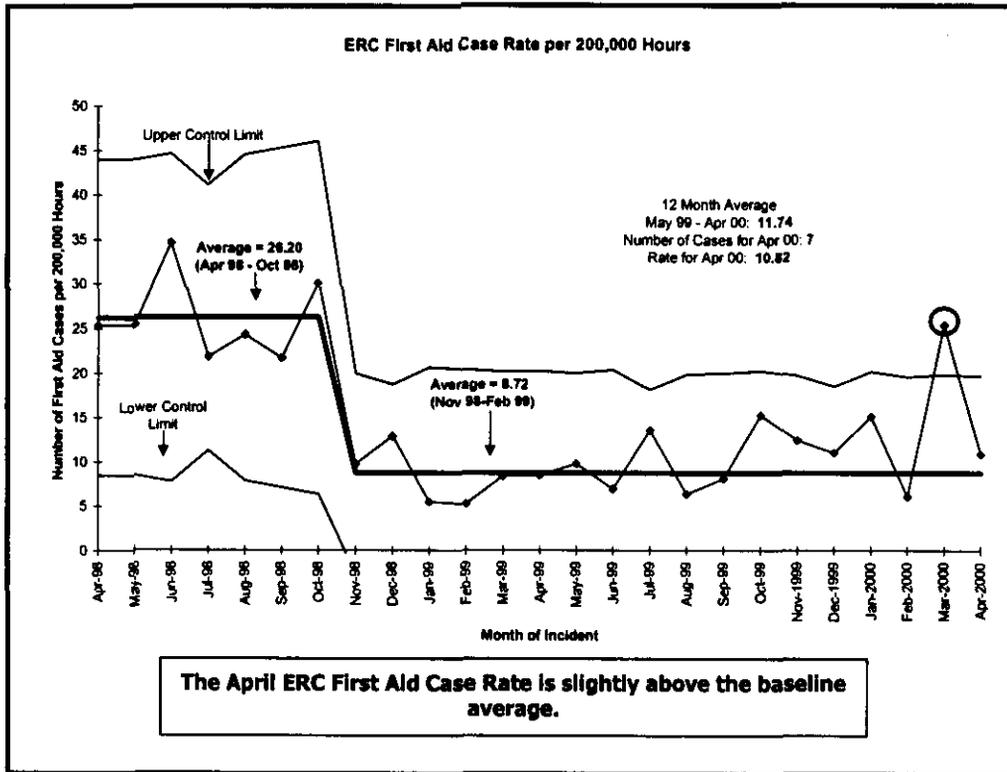
	DWP FY00	FY00 Mgmt Commitments	Current Baseline	Forecast for FY00	Completed YTD
<i>Waste Site Assessments</i>	<i>121</i>	<i>167</i>	<i>168</i>	<i>168</i>	<i>166</i>
<i>Waste Site Cleanups</i>	<i>24</i>	<i>41</i>	<i>40</i>	<i>40</i>	<i>13</i>
<i>Technology Deployments</i>	<i>0</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>1</i>

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT

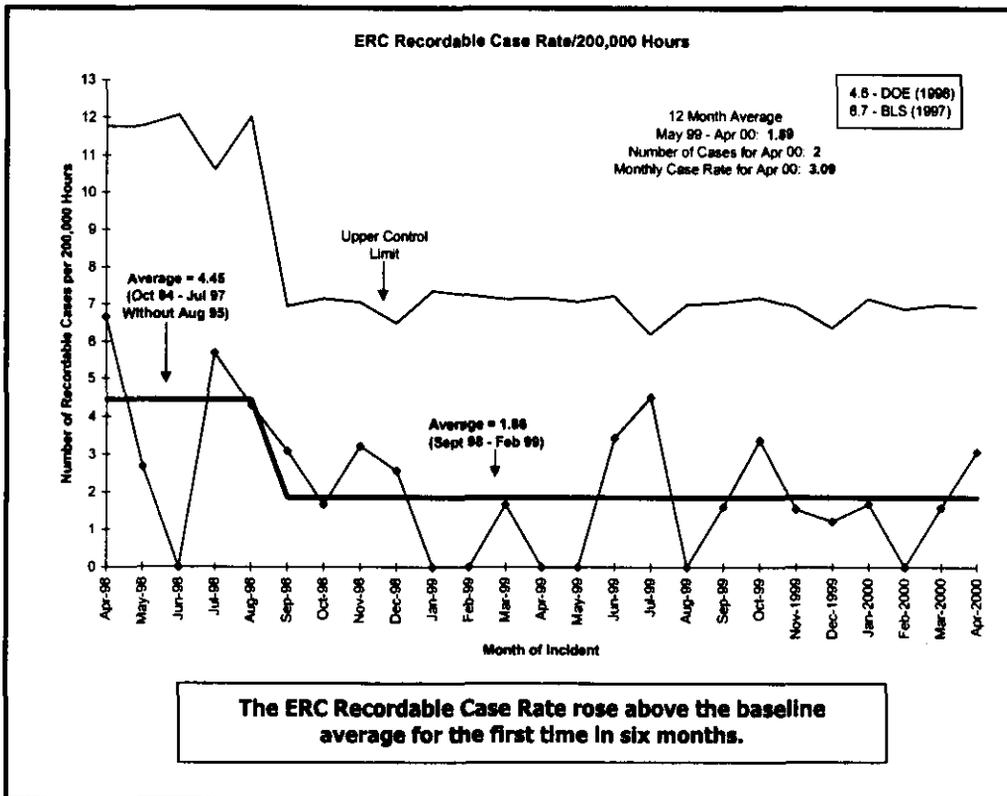
ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):



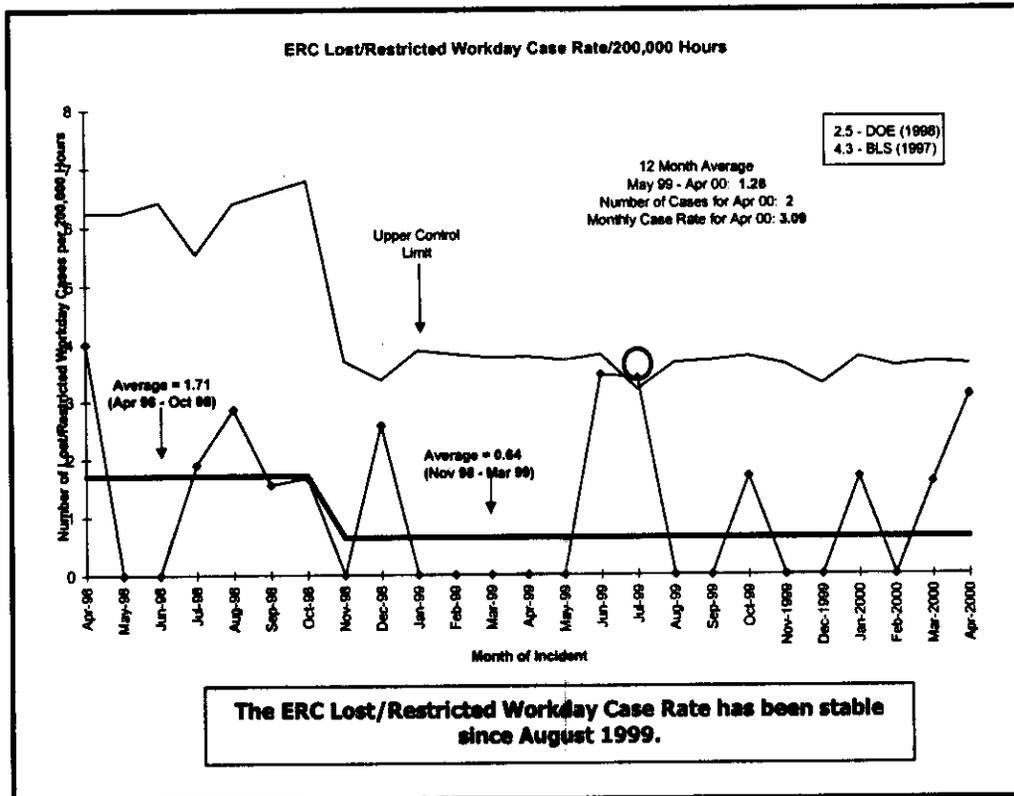
Green



Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:



Green

• **Safety:**

	YTD	Current Month (Apr)	Current Month Comments
First Aid	62	7	(2) bites/stings, (1) pain, (2) strains, (1) contusion, (1) laceration
Restricted Work Case	1	2	(1) pain, (1) strain
Lost Workday Case	4	0	N/A
OSHA Recordable	8	2	(1) pain, (1) strain (*same incidents as above)

Green

-ONE MILLION HOURS WERE REACHED MONDAY, MAY 22, 2000.
-The last lost workday began October 8, 1999.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

• **ISMS:**

DOE EM Performance Agreement: Develop and implement Integrated Safety Management (ISM) - September 30, 2000

Green

Status: Revision 2 of the ERC Integrated Safety Management System Description (BHI-01199, Rev. 2) was submitted for DOE-RL approval on May 8, 2000. This revision incorporates the following information requested by the ISMS Verification Team:

- Descriptions of the Detailed Work Planning, Results Management Team, and Baseline Change Proposal budgeting and business planning processes;
- Measures to monitor and evaluate system effectiveness; and
- Discussion of line management roles and responsibilities in a project matrix organization

With DOE-RL approval of this submittal, BHI will have achieved the institutionalization of the ISMS process (Phase I).

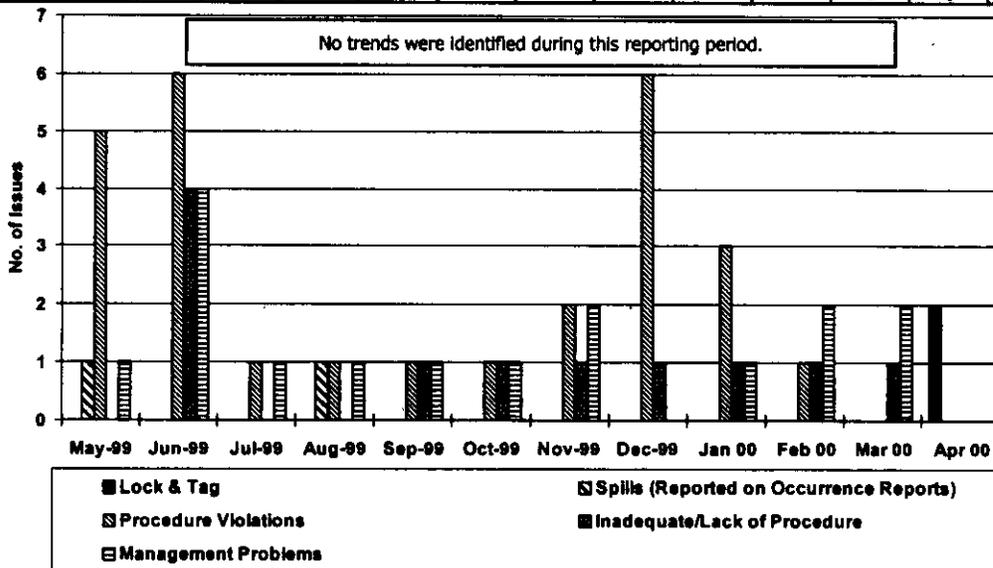
Note: The DOE ISMS Verification Team concluded in their report (DOE/RL-2000-12) that BHI has adequately implemented the ISMS process (Phase II).

Opportunities for Improvement: The five opportunities for improvement noted in the Executive Summary of the ISMS Verification Team Report (DOE/RL-2000-12) were evaluated and responses developed into an ERC ISMS Opportunities for Improvement Action Plan. This plan details these responses, assigns responsibilities, and schedules their completion dates. It was transmitted to DOE-RL on May 19, 2000.

• **Conduct of Ops:**

ERC-CATS (Corrective Action Tracking System) Trend Data 5/1/99 through 4/30/00

	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan 00	Feb 00	Mar 00	Apr 00
Lock & Tag	0	0	0	0	0	0	0	0	0	0	0	2
Spills (Reported on Occurrence Reports)	1	0	0	1	0	0	0	0	0	0	0	0
Procedure Violations	3	0	1	1	1	1	2	0	3	1	0	0
Inadequate/Lack of Procedure	0	4	0	0	1	1	1	1	1	1	1	0
Management Problems	1	4	1	1	1	1	2	0	1	2	2	0



Green

Each potential trend is reviewed and evaluated for impact on the project, and then given the appropriate level of attention based on a graded approach.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

April Conduct of Ops Issues:

Lock and Tag Issues:

Condition Description: At the 233-S facility, the key to the controlling organization panel was in the panel, granting access to the lockbox containing Lock Out/Tag Out (LO/TO) locks and tags.

Corrective Action Plan: Project in process of formulating corrective action.

Condition Description: At KR4 and HR3, the LO/TO padlocks were labeled with adhesive backed numbers which may deteriorate under environmental conditions.

Corrective Action Plan: Project in process of formulating corrective action.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Site-Wide Seniority (SWS): Current BHI/THI manual staffing totals 269 personnel. Approximately 225 position openings will become available within the Fluor Hanford organization during FY 2000. Currently, 48 BHI/THI personnel have applied for transfer through the LAMP (Labor Assets Management Program) Process. Continued loss of personnel will result in additional costs and potential impacts to critical work path activities.

Green

Status: Lamping of ERC personnel has begun. For the months of January through April, 25 personnel have transferred to Fluor Hanford. A site-wide strategy is required to maintain trained and critical resources on ER work. Lamping of personnel has resulted in additional costs associated with the training of new personnel without compensation from the receiving organization.

Radiological Control Technician (RCT) and Industrial Hygiene Technician (IHT) Lamping: 36% turnover in RCT's and 50% turnover for IHT's during the last 20 months (collectively the THI HAMTC turnover for LAMPs is 37.5%)

Green

Impacts:

- (1)*** It costs ~\$20K each to recruit RCT's from the outside and train them (this does not include the costs to projects for delays and overtime required to support the work operations due to RCT shortages).
- (2)*** This high turnover rate impacts BHI's ability to assure continuity in compliance.

Status:

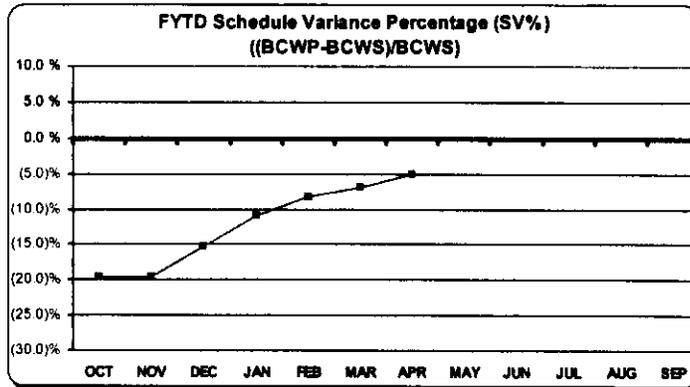
- (1)*** BHI has initiated discussions with PHMC to attempt promoting a site-wide solution to the RCT shortage problem. The RCT shortage is a nation-wide problem. BHI would like to promote resurrecting the Columbia Basin College two-year academic program for RCT's.
- (2)*** BHI Labor Relations and THI are in the process of developing incentives to reduce the number of RCT's from Lamping to another contractor.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

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TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):



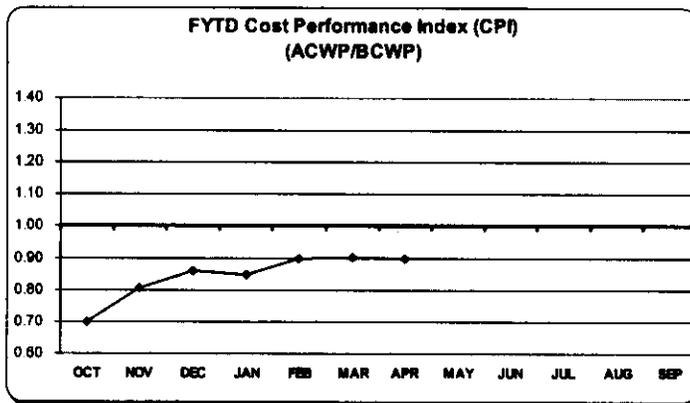
Green

Desired performance is better than -10%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,550	8,501	12,788	15,102	13,054	13,445	15,190	13,148	12,554	14,531	11,831	15,404
BCWP	11,711	6,831	11,396	15,035	13,338	13,352	15,797					
FISCAL YEAR TO DATE												
BCWS	14,550	23,066	35,354	50,456	63,524	76,969	92,159	105,307	117,861	132,392	144,223	159,627
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469					
BV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,990)					
SV%	-19.6%	-19.8%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%					
Yr End Sch Carry Over	268	353	240	320	192	270	1,385					

For variance explanation by PBS see Project Status Section of each project.

Green



Desired performance is 1.0 or less.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	12,199	14,037						
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797						
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577						
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469						
CV	3,521	3,574	4,240	6,811	5,978	7,131	8,892						
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90						
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	94,867	108,882	124,693	137,321	152,037	153,422
Yr End Budget Variance	1,967	3,638	4,793	5,074	5,521	5,482	6,205						1,385

For variance explanation by PBS see Project Status Section of each project.

**ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

**FY 2000 PERFORMANCE
FYTD APRIL 2000
(\$K)**

	FYTD RWS	CURRENT RWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE			FYTD EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	CI	
PROJECT TOTAL	27,394	29,980	18,344	18,847	3,403	503	3.1%	3,441	20.4%	0.80	28,826
DR	3,157	7,031	4,846	5,241	3,404	292	5.6%	1,637	35.1%	0.65	6,171
H	16,146	20,471	12,274	12,538	6,993	284	2.2%	1,555	12.4%	0.85	19,272
FR	8,091	67,478	33,967	34,828	27,783	1,053	3.2%	6,833	10.7%	0.80	62,283
CONTRACTORS	3,634	3,666	3,080	2,888	2,058	-192	-5.2%	830	23.7%	0.71	2,826
DR	19,334	22,515	14,283	12,782	2,324	-1,521	-10.6%	438	3.4%	0.97	22,724
H	11,326	11,437	6,524	5,338	5,049	-1,188	-18.2%	287	5.4%	0.93	11,283
FR	34,283	37,823	23,987	20,988	19,431	-2,901	-12.1%	1,568	7.6%	0.93	35,833
OPERATIONS	8,446	17,422	9,705	8,733	8,307	-973	-10.0%	428	4.9%	0.99	17,033
DR	8,446	17,422	9,705	8,733	8,307	-973	-10.0%	428	4.9%	0.99	17,033
FR	12,291	13,751	8,254	7,884	7,921	-360	-7.1%	-257	-3.4%	1.03	13,907
CONTRACTORS	47	47	5	13	20	8	180.0%	-7	-53.6%	1.54	47
OPERATIONS	12,338	13,798	8,259	7,877	7,941	-362	-7.0%	-284	-3.4%	1.03	13,954
DR	27,597	25,995	12,380	12,373	12,032	-7	-0.1%	341	2.8%	0.97	25,645
H	5,800	7,628	4,380	3,073	3,073	-1,287	-28.5%	0	0.0%	1.00	7,628
FR	33,397	33,323	16,740	15,448	15,105	-1,294	-7.7%	341	2.2%	0.98	33,274
GRAND TOTAL	135,101	159,628	92,158	87,468	78,577	-4,691	-5.1%	8,691	10.2%	0.90	153,422

Green

*CPI = ACWP/BCWP

Cost/Schedule Status:

Cost Variance

At the end of April, the ER Project had performed \$87.5M worth of work, at a cost of \$78.6M. This accounts for a favorable cost variance of \$8.9M (10.2%). The positive cost variance is attributed to DR and H subcontract savings due to asbestos abatement changes and sampling efficiencies, site excavation/backfill savings, reduced contract award amounts, FR savings in site prep and staff reductions, borehole drilling and test pit trenching costs less than planned (due to efficiencies), and FY 1999 year-end accrual reversals.

Schedule Variance

The ER Project is \$4.7M (-5.1%) behind schedule for April. The negative schedule variance is attributed to delayed Integration Project S&T activities, undetermined subpanel schedules, and formation of characterization core team; delayed groundwater well maintenance (resin regeneration/purchase) and monitoring; 233-S Facility roof duct removal, sampling, and analysis; 224B Facility inspection/survey delayed due to B-Plant exhaust system repairs; and late billings for site-wide assessments.

PERFORMANCE OBJECTIVES:

River Corridor Initiative (Complete remediation of 60 sq. miles, including Hanford townsite): Initiative is currently identified as a Superstretch item, with an approximate value of \$5.0M. **High visibility public access opportunities**; also a Superstretch item (bike trail, road to B Reactor, and boat ramp at Hanford townsite). Feasibility plan completed; evaluating options.

Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000

KEY INTEGRATION ACTIVITIES:

300 Area Acceleration Closure: BHI supported Fluor Hanford in the development of a Baseline Change Request (BCR) to prepare an accelerated closure plan for the 300 Area

Green

Status: Walkdowns have been completed. Project team continues to develop Micro Computer-Aided Cost Estimating System (MCACES) inputs and outputs to feed the Fluor Hanford Technical Baseline Management System. Estimate modeling activities are nearing completion.

Excavation at Wanapum Cache Site: The Wanapum tribe has requested ER support for trenching on the terrace of the Columbia River southeast of the 100-H Area, to uncover the remains of three Wanapum cellars used to store fishing gear, camp items, and preserved foods relating to a traditional fishing village last occupied in 1943.

Green

Status: A BCP was approved to provide support in excavating up to twelve exploratory trenches on the terrace of the Columbia River southeast of the 100-H Area.

Spent Nuclear Fuel (SNF): Draft waste shipping and receiving plans (WSRPs) were prepared in support of the upcoming K Basin waste shipments to ERDF expected in June.

Green

UPCOMING PLANNED EVENTS:

Tri-Party Agreement Milestone M-93-05, Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment, due June 30.

Green

Tri-Party Agreement Milestone M-13-23, Submit 200-TW-1 Workplan, due August 31.

Green

Tri-Party Agreement Milestone M-13-24, Submit 200-TW-2 Workplan, due August 31.

Green

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section B - River Corridor Information

June 2000



Focused on Progress...

Focused on Outcomes!



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

**Remedial Action and
Waste Disposal Project
(RAWD)**

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION

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SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month end April
All other data as of May 25, 2000. (unless otherwise noted)

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

ERDF Transportation and Operations: During April, shipments totaling 52,351 metric tons (57,708 tons) of contaminated waste were transported to the ERDF. 360,373 metric tons (397,245 tons) have been received in FY 2000. To date, 2,087,350 metric tons (2,300,921 tons) of material have been received and placed in the disposal facility.

The first batch of "slug baskets" from 105 KW Legacy Waste were successfully disposed in the ERDF. The slug baskets required special handling under the provisions of a Waste Shipping and Receiving Plan that was formulated to safely dispose this elevated smearable alpha waste stream.

100 B/C: Complete. 684,731 tons removed.

100-H Area Remedial Action: The 100-H-5 Sludge Burial Pit waste site baseline excavation was completed.

Ecology personnel collected samples in the 100 Areas of pre-Hanford agricultural areas for arsenic analysis. A meeting to discuss the resolution of the "old orchard" residual arsenic issue and a tour of the 100-HR Operable Unit (OU) was completed with Ecology. It was agreed that Ecology will forward a letter to RL approving the increase of the Remedial Action Goal (RAG) from 6.5 mg/kg to the Washington State background value of 20 mg/kg.

300 Area Remedial Action: Thirty-three intact drums previously excavated from Landfill 1A were opened during the month to determine drum contents and need for sampling. Most of the drums were determined to be empty and were crushed and sent to ERDF. Nine drums that contained small quantities of liquids were pumped dry and sent to ERDF for disposal. The liquid pumped from the drums was submitted for lab analysis.

A revision to the Auditable Safety Analysis and Final Hazard Classification for the 300-FF-1 Remedial Action Project has been approved by RL resulting in a "radiological" classification. The authorization basis document requires restaging the drums containing oil and uranium waste at the 618-4 Burial Ground. The restaging includes construction control access, with berm, passive barrier and fire lane to preclude significant spread of contamination in the event of a fire. A baseline change request was approved to support this activity.

More than 215,000 metric tons (237,000 tons) of contaminated material have been removed from the South Process Pond. This marks completion of the original scope contained in the FY 2000 Detailed Work Plan and all of the additional "stretch" scope that was added to the baseline in December 1999. Work continues on Plume #4 that was discovered in March 2000 and involves an additional 22,611 metric tons (24,925 tons).

100-NR-1 Remediation: ERC mobilization activities are proceeding and include routing of a 13.8 kV line to the frisking tent location, installing a new dirt road to the pump and treat tent, installation of fencing, and design/installation of a protection system for the existing 100-N water export line.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-15-23B	Submit 300-FF-2 Focus Feasibility Study (FFS) and Proposed Plan for Regulator Review	11/30/99	11/22/99 (A)
M-15-00B	Complete all 300 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules	12/31/99	11/22/99 (A)
M-16-92B	ERDF Cells 3 & 4 Ready to Accept Remediation Waste	12/31/99	12/09/99 (A)
M-15-00A	Complete all Remaining 100 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules (100-KR-2, 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6)	12/31/99	12/21/99 (A)
M-16-08B	Complete Remediation and Backfill of 19 Waste Sites in the 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	3/31/00	2/25/00(A)
M-16-13A	Initiate Remedial Action for 100-FR-1 Operable Unit	9/29/00	8/01/00 (F)
M-16-03E	Complete Remediation of the Waste Sites in the 300-FF-1 Operable Unit (excluding the 618-A Burial Ground), to Include Excavation, Verification, and Backfilling	12/31/00	12/31/00 (F)
**M-16-26B	Complete Remediation, Backfill and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17)	2/28/01	2/28/03 (F)

Green

Yellow

****Unrecoverable due to funding constraints. RL needs to negotiate resolution with the regulators. The path forward is to submit a TPA change package and evaluate out-year budgets and priorities.**

• **DNFSB Commitment:**
None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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PERFORMANCE OBJECTIVES: RAWD

Outcome	Performance Indicator	Status
<i>Restore the River Corridor for Multiple Uses</i>	<i>100/300 Area waste excavation, disposal and backfill/regrade.</i>	<i>Baseline work is projected to be completed per PI requirements.</i>

Green

PERFORMANCE MEASURES: RAWD – (River and Plateau)

	DWP FY00	FY00 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
<i>Waste Sites</i>	24	41	40	40	13
<i>100 Area Burial Ground Assessments</i>	0	46	47	47	47 ^a
<i>300-FF-2 Assessments</i>	119	119	119	119	119 ^a
<i>Other Assessments</i>	2	2	2	2	0
<i>Tons</i>	389K	N/A	627K	627K	397K

Green

^a Proposed Plan, Draft A submittal.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

STRETCH AND SUPERSTRETCH GOALS: RAWD

FY00 RAWD "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Perform Excavation in Unfunded Sites in 100 B/C, HR-1, FR-1, 100, and 300 Area and Plumes:</i>		
<i>(1) Extended Plumes at 316-1 S Pond (BCP-20043)</i>		<i>\$1,202.8K</i>
<i>(2) Additional Plumes at 100-DR (BCP-20050)</i>		<i>\$905.8K</i>
<i>(3) Additional Plumes at 100-HR (BCP-20119)</i>		<i>\$240.3K</i>
<i>(4) Additional Plumes at 100-HR (BCP-20130)</i>		<i>\$426.7K</i>
<i>(5) Additional Plumes at 300-FF (BCP-20113)</i>		<i>\$669.4K</i>
<i>(6) Additional Plumes at 100-DR (BCP-20116)</i>		<i>\$175.2K</i>
<i>(7) Defer Backfill at 100-DR (BCP-20166)</i>		<i>(\$93.2K)</i>
<i>(8) Additional Plumes at 100-DR (BCP-20189)</i>		<i>\$124.9K</i>
<i>S/Total Remedial Action Stretch Goals:</i>	<i>\$4,560.0K</i>	<i>\$3,651.8K</i>

Green

FY00 RAWD "Superstretch" Goal	Scope Dollars (K)	Approved BCPs (K)
<i>Complete Remediation of 60 Sq. Mi. of Hanford Site:</i>		
<i>(1) Complete Remediation of Hanford Townsite</i>	<i>\$755.0K</i>	<i>\$0.0K</i>
<i>(2) Complete Remediation of JA Jones Pit #1 and 600-23 (300-FF-2)</i>	<i>\$1,500.0K</i>	<i>\$0.0K</i>
<i>(3) Other Remedial Actions</i>	<i>\$1,395.0K</i>	<i>\$0.0K</i>
<i>S/Total Remedial Action Superstretch Goals:</i>	<i>\$3,650.0K</i>	<i>\$0.0K</i>

Green

**Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: RAWD)

• **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER01 100 Area Remedial Actions</i>	16,344	16,847	503
<i>ER03 300 Area Remedial Actions</i>	4,949	5,241	292
<i>ER04 ER Waste Disposal</i>	12,274	12,538	264
TOTAL Remedial Actions	33,567	34,626	1,059

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = +\$503K; +3.1% [Last Month: +\$41K; +0.3%]

Cause: Ahead of schedule on 100-DR-1 pipeline excavation, 100-HR excavations, and NR-1 crib remediation design and site prep.

Resolution: None required.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = +\$292K; +5.9% [Last Month: +\$235K; +5.7%]

Cause: Excavation of Landfill 1B is ahead of schedule; expect early completion.

Resolution: None required; will complete ahead of schedule based on tonnage quantities.

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = +\$264; +2.2% [Last Month: -\$13K; -0.1%]

Cause: Ahead of schedule primarily due to 100-HR excavations and 300 Area excavations being ahead of schedule.

Resolution: None required.

• **Cost:**

Remedial Action & Waste Disposal Project	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER01 100 Area Remedial Actions</i>	16,847	13,406	3,441
<i>ER03 300 Area Remedial Actions</i>	5,241	3,404	1,837
<i>ER04 ER Waste Disposal</i>	12,538	10,983	1,555
TOTAL Remedial Actions	34,626	27,793	6,833

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = +\$3441K; +20.4% [Last Month: +\$2682K; +18.7%]

Cause: Savings in DR-1 subcontract costs due to asbestos abatement changes and sampling efficiencies; FR savings in site prep and staff reductions; labor savings on B/C backfill activities; waste minimization savings at HR near-river excavation sites.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued): RAWD

Resolution: Savings will be used to perform other remediation work.

PBS-ER03 – 300 Area Remedial Action

Cost Variance = +\$1837K; +35.1% [Last Month: +\$1675K; +38.5%]

Cause: Management and administrative cost efficiencies at Landfills 1A/1B, and FY 1999 accrual reversal in South Process Pond remediation.

Resolution: Savings will be used to perform other remediation work.

PBS-ER04 – Environmental Restoration Waste Disposal

Cost Variance = [+\$1555K; +12.4%] [Last Month: +\$1411K; +13.3%]

Cause: Reflects FY 1999 over accrual.

Resolution: Savings will be used to perform other remediation work.

REGULATORY ISSUES: RAWD

Tri-Party Agreement Milestone: (1) Milestone M-16-26B due February 28, 2001. Complete remediation and backfill of 51 liquid waste sites at B/C, DR and HR is impacted by B/C pipelines.

Yellow

Status: A negotiated resolution with the regulators is required. The path forward is to submit a Tri-Party Agreement Change Package to the regulators for review and evaluate out year funding and priorities.

Arsenic Strategy for 100 Area Remediation: Variance sampling was completed in November 1999 for 1607-H2 and 1607-H4 septic systems. Arsenic data in the overburden and shallow zone soils exceeded Remedial Action Goals (RAGs). The average ranged from 8-11 mg/kg, maximum – 30 mg/kg (Hanford Background 6.5 mg/kg). Records indicate that no arsenic was used in processes at the 100 H Area. Historical research indicates lead arsenate was used as a pesticide in pre-Hanford agricultural lands (predominantly orchards).

Yellow

Status: The plan to address the elevated arsenic levels encountered during the confirmation sampling activities was pulled back by the Washington State Department of Ecology during the March Unit Manager's Meeting. This delay may cause a potential slippage to the recently negotiated Tri-Party Agreement Milestone M-16-26C, Complete Remediation and Backfill of 10 Liquid Waste Sites in the 100 H Operable Unit by May 31, 2001. Ecology obtained additional arsenic samples throughout the 100 Areas of the Hanford site. A meeting was held and Ecology agreed with the previous resolution (using the Washington State background evaluation of 20 mg/kg) and stated they would send RL a letter confirming the increased RAG for arsenic. Once RL receives the letter from Ecology, a BCP will be processed for the scope change. If required, a TPA change package will be initiated after approval of the BCP.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): RAWD

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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INTEGRATION ACTIVITIES: RAWD

ERDF: In the support of Hanford Site partnering, draft waste shipping and receiving plans (WSRPs) have been prepared for the two initial waste streams expected from the Spent Nuclear Fuel (SNF) Project's K Basin clean out work. Initial delivery of waste from the SNF is expected in June.

Green

Decommissioning Projects (D&D)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: *D&D*

Reactor ISS:

105-F Reactor: Design Engineering revised the F & DR Removal Action Workplan (RAW) to incorporate the F Reactor Fuel Storage Disposition Plan and Air Monitoring Plan. The document was sent to DOE on May 4 for distribution to the regulators.

SSE pourback subcontractor completed nine large pourbacks at 105-F Reactor. Areas included below grade demolition areas.

105-DR Reactor: Completed all 105-DR north reactor demolition and loadout. Areas included were north gas recirculation tunnel, accumulator trench and north side slabs.

Completed demolition of the above grade exhaust plenum and south reactor sample rooms at 105-DR. Project completed the demolition and loadout of the below grade exhaust plenum and the south gas recirculation tunnel.

105-D & H Reactor: Issued MOU for access authorization with SM&T into 105-D & H Reactors. Completed pre-surveys and began room-by-room walkdowns and estimates. Received approval of Reactor Legacy Waste Management Plan to allow cleanup for access to remaining rooms for walkdown.

Engineering subcontractor began preparation of the H Reactor Auditable Safety Analysis.

105-B Reactor Safe Storage:

Project engineering distributed the 60% Draft Feasibility (Phase II) Assessment Report for review and comment. A meeting was held with the B Reactor Museum Association, RL, MACTEC and BHI on April 20, to review the document. The 90% review document was submitted for review on May 16.

233-S Pu Concentration Facility:

Removed first floor PMMA panels.

Completed radiological survey of Process Hood floor area.

Collected six Process Hood and Viewing Room samples for characterization.

Initiated dry cleanup of the Process Hood floor. Collected 27 polyjars (approximately ½ liter each in size) of loose material.

Completed Viewing Room stairwell conduit removal.

Removed acorn nuts and hold down strips from Process Hood PMMA panels.

Completed installation of hardwood airlock in Loadout Hood room.

Completed core drilling of two 12" ventilation holes on the south wall of the Loadout Hood room.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D											
<i>See Executive Summary Section.</i>											
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D											
<i>None identified at this time.</i>											
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: D&D											
<i>None identified at this time.</i>											
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): D&D											
<ul style="list-style-type: none"> DOE Secretarial: <i>None identified at this time.</i> 											
<ul style="list-style-type: none"> DOE EM Performance Agreement: 224B: Complete <u>draft</u> EE/CA and submit to regulators – July 2000. Complete <u>draft</u> SAP and submit to regulators – September 2000. <i>Status: EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 - 2003 DWP funding that would lead to near term 224B decommissioning. The risks associated with 224B were evaluated and a change to the FY 2001 - 2003 DWP funding guidance was recommended that discontinues assessment and planning activities associated with 224B decommissioning. A BCP will be submitted to close out the remainder of the 224B activities in FY 2000.</i> 											
Yellow											
<ul style="list-style-type: none"> TPA Milestones: <table border="1"> <thead> <tr> <th>Milestone</th> <th>Description</th> <th>Due Date</th> <th>(F)/(A) Date</th> </tr> </thead> <tbody> <tr> <td>M-93-05</td> <td><i>Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment</i></td> <td><i>6/30/00</i></td> <td><i>6/30/00 (F)</i></td> </tr> </tbody> </table>				Milestone	Description	Due Date	(F)/(A) Date	M-93-05	<i>Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment</i>	<i>6/30/00</i>	<i>6/30/00 (F)</i>
Milestone	Description	Due Date	(F)/(A) Date								
M-93-05	<i>Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment</i>	<i>6/30/00</i>	<i>6/30/00 (F)</i>								
Green											
<ul style="list-style-type: none"> DNFSB Commitment: <i>None identified at this time.</i> 											

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

PERFORMANCE OBJECTIVES: D&D

Outcome	Performance Indicator	Status
<i>Restore the River Corridor for Multiple Uses</i>	<i>Reactor ISS and preparation of facilities for decommissioning.</i>	<i>Baseline reactor ISS work is projected to be completed per PI requirements.</i>
<i>Transition Central Plateau to Support Long-Term Waste Management</i>	<i>Maintain facilities until D&D (233-S).</i>	<i>FY 2000 work resequenced via BCP-20141, approved March 14, 2000. New performance indicators drafted and submitted for approval.</i>
	<i>Maintain facilities until D&D (224B).</i>	<i>224B baseline work impacted by regulator refusal to review EE/CA and FY 2001 funding guidance to defer D&D. The SAP will not be completed and the associated performance measure will require revision or deletion.</i>

Green

Yellow

PERFORMANCE MEASURES: D&D

	DWP FY00	FY00 Mgmt. Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
<i>Facilities</i>	0	0	4 ^b	4 ^b	3 ^c

Green

^b 116-D, 116-DR, 119-DR and 108-F

^c 116-D, 116-DR, 119-DR (108-F Final Report scheduled for 9/00)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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STRETCH AND SUPERSTRETCH GOALS: D&D

FY00 D&D "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>*Continue F Reactor Interim Safe Storage (ISS) (BCP-20151)</i>	\$2,000.0K	\$1,490.8K
<i>Public Access to Hanford Townsite and B Reactor</i>	\$750.0K	\$0.0K
S/Total D&D Superstretch Goals:	\$2,750.0K	\$1,490.8K

Green

Yellow

**Status: Requires funding support outside of ER to execute Superstretch.*

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): D&D

Schedule:

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>Decommissioning & Decontamination</i>	9,706	8,733	-973
Total D&D	9,706	8,733	-973

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = -\$973K; -10.0% [Last Month: -\$659K; -8.3%]

***Cause:** 233-S decommissioning; delay in removal of exhaust roof duct pending completion of scaffolding installation and decontamination and fixative application of the Process Hood. Procurement of material and equipment are currently behind schedule.*

***Resolution:** Exhaust duct removal is planned to start in July after completion Process Hood decontamination.*

***Cause:** 224B entry was restricted due to inoperable B-Plant exhaust system. Workarounds were developed and walk down of the non-gallery side was completed in March. Draft EE/CA was submitted to Regulators during February 2000. EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 – FY 2003 DWP funding that would lead to near term 224B decommissioning.*

***Resolution:** The risks associated with 224B were evaluated and a change in the FY 2001 – FY 2003 DWP funding guidance was recommended that discontinues FY 2000 assessment and planning activities associated with project decommissioning. A BCP is being prepared to close out remainder of 224B activities in FY 2000.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: D&D

• **Cost:**

Decommissioning Projects	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	8,733	8,307	426
TOTAL D&D	8,733	8,307	426

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = +\$426K; +4.9% [Last Month: +\$349K; +4.8%]

Cause: Sample analysis cost is significantly lower than expected.

Resolution: Savings will be used to perform other remediation work.

Cause: 233-S – Additional cost to correct airflow and installing electrical upgrades in the viewing room.

Resolution: Cost overruns are being trended. Engineering controls have been implemented to resume characterization activities.

REGULATORY ISSUES: D&D

D&H Reactor Impacts of TPA milestones: *The acceleration of the Reactor ISS is not consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestones for DR, D, and H at the same level of detail as F and C Reactors.*

Green

Status: The new Ecology lead for D&D was briefed on that status of D&D by the RL and BHI Project Managers. The issues that have been raised by EPA concerning the TPA milestones was discussed and Ecology agreed to contact EPA. The EE/CA for D & H ISS Reactors was sent to Ecology for review to keep the process moving until the issues can be resolved.

105-B Reactor Safe Storage: *Discussion with the EPA on the Tri-Party Agreement Milestone M-93-05, "Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment" (6/30/00), indicates that the document would meet the milestone requirements but would not be issued for public comment. The EPA has requested that the feasibility study be expanded to include all building hazards (including expanded tour route) and an EE/CA be prepared and submitted for public comment. Currently, the project does not have a clear path forward relative to hazard identification and resolution. Funding has not been authorized for hazard reduction.*

Green

Status: Work with appropriate RL personnel to determine a path forward; submit appropriate change control.

F & DR Reactor:

Issue #1: *Analysis results for the 105-DR Fuel Storage Basin (FSB) indicate a potential problem with Chromium and PCB levels exceeding cleanup levels. A meeting is being scheduled to discuss the issue with the Regulators and the options for demolition of the FSB.*

Green

Status: Options range from the original plan to demo the walls down to -15 feet and leaving the rest to complete removal of the basin.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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REGULATORY ISSUES continued: D&D

***Issue #2:** The 105-D/H EE/CA schedule required regulator review to be completed by April 19 to meet the established DWP goals and deadlines. EPA has stated that they want to address the TPA Reactor milestones before approving an Action Memo for D&H.*

Green

***Status:** EPA has also proposed sending the EE/CA to EPA's National Remedy Review Board located in Washington DC. The EE/CA will be split to remain below the limit for the Remedy Board to maintain schedule. Working with EPA and Ecology to ensure an action memorandum can be issued by the end of FY 2000.*

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D

***224B:** EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 - 2003 DWP funding that would lead to near term 224B decommissioning.*

Yellow

***Status:** The risks associated with 224B were evaluated and a change to the FY 2001 - 2003 DWP funding guidance was recommended that discontinues FY 2000 assessment and planning activities associated with 224B decommissioning. A BCP will be submitted to close out the remainder of the 224B activities in FY 2000.*

INTEGRATION ACTIVITIES: D&D

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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**Program Management and
Support (PM&S)**

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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JUNE 2000**

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month end April
All other data as of May 25, 2000. (unless otherwise noted)

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

Compliance, Quality, Safety & Health:

Safety & Health:

Completed Integrated Self-Assessment of the Hazardous Waste Operations and Emergency Response (HAZWOPER) program with Field Support. There were no findings or observations.

BHI Safety and Hygiene personnel presented the Disposition Paper for Determination of Emergency Planning Categorization for the Hanford Site Retired Production Reactors. This paper was prepared for the purpose of downgrading the emergency classifications of the inactive production reactors. DOE-HQ reviewed the paper and agreed with the conclusions of the document.

The Radiation Protection Program Manual (RPPM), BHI-RC-01 was signed and has been distributed to training coordinators. It will be used in 10CFR835.103 training for those individuals responsible for implementing the radiological control program.

Compliance and Quality Programs/Price Anderson Amendment Act (PAAA):

Conducted an independent assessment of the corrective action plan submitted to the Environmental Protection Agency (EPA) and Ecology in response to the Notice of Violations (NOVs) concerning management of IDW (tri-butyl phosphate). BHI Management directed Compliance and Quality Programs (CQP) to conduct an independent assessment to verify that commitments made in the response letter have been addressed and implemented, and are effective. Fieldwork was completed in mid April and a final report submitted on May 24.

Developed FY 2000 Compliance and Quality Programs Assessment Schedule information for Gerry Bell (RL) to be incorporated with RL's Master Assessment Schedule Chart of the Hanford Site. Detailed information on completed and scheduled assessments was provided.

Issued a revision to BHI-CQP-01, Compliance and Quality Programs, Procedure 2.8, "Evaluation of Potential Non-compliances with the QA Rule." The procedure describes the process for evaluating potential noncompliances with the Code of Federal Regulations (CFR), 10 CFR 830.120, "Quality Assurance Requirements" and is consistent with the rule. The changes provide sufficient information to allow Compliance and Quality Programs to apply the graded approach to the evaluations.

Program and Project Support:

Document Information Services (DIS):

Facilities and Office Services (F&OS) - 'Sixth Sense' technology has been activated in nine mid-volume, digital copiers at the ERC. One of the many benefits of this technology is the remote access capabilities. This affords the technicians the ability to access the copier's internal diagnostic center via a phone line connection. This enables the technicians to come prepared with the correct parts to immediately fix the problem.

Project Procurement and Property Management:

BHI Property management personnel participated in a Value Engineering Study that was put on by DYN/FHI to identify process improvements in the Investment Recovery Operations. To summarize the study, the team developed a site-wide integrated and automated approach to investment recovery operations that will: streamline the excess process, reduce assets, and facilitate economic development. With implementation of proposed changes, a site-wide savings of approximately \$1.02M per year could be realized.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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ACCOMPLISHMENTS continued: PM&S

Project Technical Support (Engineering & Technology):

Technology Applications:

Bechtel Hanford, Inc. lead the effort with assistance from Fluor and PNNL in the preparation, assembling and shipping of posters and handout materials for the U.S. Department of Energy (DOE), Richland Operations Office Capital Hill exhibit titled "Strength through Science". The exhibit was attended by several Congressmen, Senators and their staff and was judged as one of the best among the DOE Complex.

An additional \$350K of Office of Science and Technology funds for CDI was received and planned on the project.

Environmental Technologies:

Environmental Information Systems – Twenty-four 200 Area Group 2 reclassification sites were signed off by the Environmental Protection Agency and the Washington State Department of Ecology. The reclassification of these sites will result in cost savings of \$1.44M.

Completed Waste Minimization Target – (1) reduced the volume of clean fly ash needing to be remediated at the 126-F-1 Ash Pit. Employing the newly developed "Small Diameter Geophysical Logging System" to characterize the ash pit, resulted in 50% of the site needing no further cleanup.

Automation Technology:

Completed contractor reply to the U.S. Department of Energy (DOE) contract modification letter regarding the implementation of DOE N 205.3 (Computer password security implementation).

Planning & Controls:

Staff Group:

Issued rates for the Fiscal Years 2001 through 2003 Detailed Work Plan to RL for review.

Strategic Planning:

Provided support to the Hanford site planning initiatives including support to alternate work prioritization studies initiated by RL.

LRP & Baseline Support:

Completed the HQ's IPABS Part B budget formulation data submittal for FY 2002. Interfaced with FHI and RL on Hanford site priorities.

Site Modeling Tool - Compiled and provided to FHI the ER Baseline, Code of Account, milestone, and budget data to be used for Hanford site integration planning as requested by RL. ER data will help form an integrated P3 long range schedule model that will be used for evaluating alternative Site planning scenarios.

Issued Draft FY 2001 – FY 2003 ER DWP funding guidance targets to project functional management and RL for review.

Reporting & Change Control:

The ER Mid-Year Review status presentation was conducted with RL and HQ personnel on May 8-9.

Continued to work with RL to update/revise the ER Change Control process for RL-requested adjustments. The expected outcome is a revised Change Control procedure.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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SAFETY/ISMS/CONDUCT OF OPERATIONS: <i>PM&S</i>																		
<i>See Executive Summary Section.</i>																		
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: <i>PM&S</i>																		
<i>None identified at this time.</i>																		
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>PM&S</i>																		
<i>Planning & Controls: Detailed work planning (DWP) process for FY 2001 – FY 2003 Kick-off Meeting – June 5</i>		Green																
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): <i>PM&S</i>																		
<ul style="list-style-type: none"> • DOE Secretarial: <i>None identified at this time.</i> • DOE EM Performance Agreement: <i>None identified at this time.</i> • TPA Milestones: <i>None identified at this time.</i> • DNFSB Commitment: <i>None identified at this time.</i> 																		
PERFORMANCE OBJECTIVES: <i>PM&S</i>																		
<i>None identified at this time.</i>																		
PERFORMANCE MEASURES: <i>PM&S</i>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Technology Deployment</th> <th style="text-align: center;">PBS</th> <th style="text-align: center;">(F)/(A) Date</th> </tr> </thead> <tbody> <tr> <td><i>Liquid-Level Detection Technology (Ultrasonics)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>10/99 (A)</i></td> </tr> <tr> <td><i>Remote Concrete Sampling System (Brokk with automated concrete coring attachment)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>06/00 (F)</i></td> </tr> <tr> <td><i>3-D Visual and Gamma Ray Imaging System</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>06/00 (F)</i></td> </tr> <tr> <td><i>Liquid-Level Detection Technology (Thermography and/or Ultrasonics)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>09/00 (F)</i></td> </tr> </tbody> </table> <div style="text-align: right; margin-top: 10px;"> <table border="1" style="border: 2px solid black; width: 60px; height: 30px; margin-left: auto;"> <tr> <td style="text-align: center;">Green</td> </tr> </table> </div>			Technology Deployment	PBS	(F)/(A) Date	<i>Liquid-Level Detection Technology (Ultrasonics)</i>	<i>RL-ER05</i>	<i>10/99 (A)</i>	<i>Remote Concrete Sampling System (Brokk with automated concrete coring attachment)</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>	<i>3-D Visual and Gamma Ray Imaging System</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>	<i>Liquid-Level Detection Technology (Thermography and/or Ultrasonics)</i>	<i>RL-ER05</i>	<i>09/00 (F)</i>	Green
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Green																		
STRETCH AND SUPERSTRETCH GOALS: <i>PM&S</i>																		
<i>None identified at this time.</i>																		

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): PM&S

• **Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER10 ERC Program Management & Support</i>	12,380	12,373	-7
<i>ER10 RL Program Management & Support</i>	4,360	3,073	-1,287
TOTAL PM&S	16,740	15,446	-1,294

Green

PBS-ER10 – Program Management and Support

Schedule Variance = -\$1294K; -7.7% [Last Month: -\$1529K; -11.5%]

Cause: Late billing on site-wide assessments.

Resolution: RL is discussing billing/timing with other site contractors.

• **Cost:**

Program Management & Support	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER10 ERC Program Management & Support</i>	12,373	12,032	341
<i>ER10 RL Program Management & Support</i>	3,073	3,073	0
TOTAL PM&S	15,446	15,105	341

Green

PBS-ER10 – Program Management and Support

Cost Variance = +\$341K; +2.2% [Last Month: +\$33K; +0.3%]

Cause: Fewer special requests and audits have resulted in savings; baseline management efficiencies.

Resolution: None required.

REGULATORY ISSUES: PM&S

Nez Perce Native Seed Production: Funding is required to support native seed production with the Nez Perce after May 30. Native seed production is a cooperative effort among the four tribes and is the only means to obtain native plants grown by Native Americans for ERC revegetation activities. Additionally, the Natural Resource Trustee Council views this production activity as mitigation under Natural Resource Damage Assessment. Funding is required to produce revegetation products for current ERC projects, maintain a source of native seed plant production for future revegetation activities, and to fulfill agreements with the Tribal Nations.

Green

Status: A BCP has been processed to provide funding to continue native seed production.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): PM&S

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

INTEGRATION ACTIVITIES: PM&S

Bechtel Hanford, Inc. lead the effort with assistance from Fluor and PNNL in the preparation, assembling and shipping of posters and handout materials for the U.S. Department of Energy (DOE), Richland Operations Office Capital Hill exhibit titled "Strength through Science". The exhibit was attended by several Congressmen, Senators and their staff and was judged as one of the best among the DOE Complex.

Green

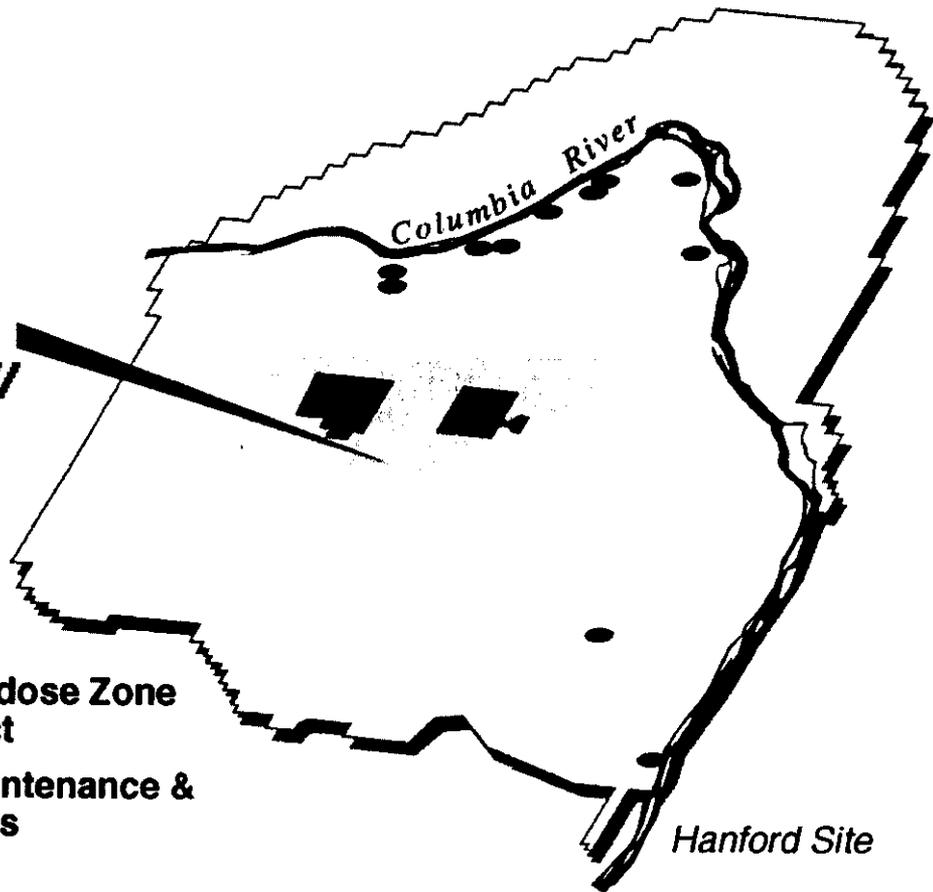
Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section C - Central Plateau Information

June 2000

*Transition the
Central Plateau*



- Groundwater / Vadose Zone Integration Project
- Surveillance / Maintenance & Transition Projects

Focused on Progress...
Focused on Outcomes!



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Groundwater/Vadose Zone Integration (GW/VZ)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Groundwater/Vadose Zone Integration (GW/VZ):

ACCOMPLISHMENTS: GW/VZ

200 Area Assessment: *Delivered 200-CW-1 and 200-CS-1 Rev. 0 work plans to RL, and EPA completed the review of the TW-1/TW-2 DQO.*

Groundwater Management:

Long Term Monitoring: *Met with Ecology and obtained locations for fifteen RCRA groundwater monitoring wells to establish TPA milestone M-24-00L for calendar year 2000. All wells will be installed surrounding Single Shell Tanks. Wells were staked in the field and all locations photographed. Still awaiting TPA change request approved by Ecology.*

Tritium Investigation: *Completed a draft of the DQO report (the basis of the Phase II Tritium investigation scope) and summarized the information into a characterization plan.*

Pump and Treat Systems: *All groundwater pump and treat systems have operated above cumulative planned availability through April.*

ISRM Drilling/Injection: *Completed drilling all sixteen ISRM wells planned for FY 2000 (April 24).*

Science and Technology: *The National Academy of Science review held their first committee meeting. The 15-member committee will meet five more times to complete their study (2-3 times at Hanford, 2 times offsite for writing).*

System Assessment Capability: *Completed RL review of the focus sheet on SAC design document in preparation for public and regulatory comment and management review (in June).*

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary Section.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ

Key ISRM FY 2000 Activities:

FY 2001 Activities: *(Planned Activities)*

Activities: *Drill and install twenty-four ISRM Barrier Wells. Utilize all wells for ISRM Barrier emplacement.*

(Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2001.)

Drill and install four ISRM compliance wells.

FY 2002 Activities: *(Planned Activities)*

Activities: *Drill and install twenty-four ISRM Barrier Wells. Utilize all remaining wells for ISRM Barrier emplacement.*

(Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2002.)

Demobilize evaporation pond (FY 2002 or FY 2003 Activity).

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ

- **DOE Secretarial:**

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Green

Status: Draft was provided to RL on April 14.

Complete Installation of the Wells and Initiate Injection of the Barrier for Phase II of the In Situ REDOX Manipulation Project (PBS ER08) due September 30.

Status: Forecast to be completed by September 30. (Well installation was completed on April 24.)

Complete the Semi-Annual Groundwater/Vadose Zone Report (December 1999 – March 2000) due May 31.

Status: Draft was delivered to HQ on May 16.

- **DOE EM Performance Agreement:**

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/VZ

TPA Milestones:

Milestone	Description	Due Date	(F)/(A) Date
M-13-22	Submit U-Pond/Z-Ditches Cooling Water Group Work Plan	12/31/99	12/14/99 (A)
M-24-00K	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 1999 if Required	2/29/00	2/17/00 (A)
M-24-41	Install Three (3) Additional RCRA Wells for the SST WMA S-SX	2/29/00	2/17/00 (A)
M-24-42	Install One (1) Replacement Well for the 216-S-10 Pond	2/29/00	2/17/00 (A)
M-24-43	Install One (1) Additional RCRA Well for the SST WMA TX-TY	2/29/00	2/17/00 (A)
M-24-44	Install One (1) Replacement Well for the 216-B-3 Pond (This is an extension of a CERCLA vadose borehole.)	2/29/00	2/17/00 (A)
M-24-45	Install Two (2) Additional RCRA Wells for the SST WMA B-BX-BY	2/29/00	2/17/00 (A)
M-13-23	Submit 200-TW-1 Work Plan	8/31/00	8/31/00 (F)
M-13-24	Submit 200-TW-2 Work Plan	8/31/00	8/31/00 (F)
*M-13-00K	Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/31/00 (F)
*M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/31/00 (F)
**M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/31/00 (F)

Green

*Awaiting letter of direction from RL deferring this work scope beyond DWP FY 2001 – FY 2003.

**Number of wells and locations have been identified. Awaiting final TPA change request approval.

• **DNFSB Commitment:**
None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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PERFORMANCE OBJECTIVES: GW/VZ

Outcome	Performance Indicator	Status
<i>Restore the River Corridor for Multiple Uses</i>	<i>Manage groundwater plumes per interim RODs.</i>	<i>Baseline work is projected to be completed per PI requirements; BCP-20065 was submitted and approved to extend the ISRM drilling schedule as a result of late signing of the 100-HR-3 ROD.</i>
<i>Transition Central Plateau to Support Long-Term Waste Management</i>	<i>Complete system assessment capability.</i>	<i>Baseline work projected to be completed per PI requirements. BCP-20182 has been submitted to revise the path forward for development of SAC Rev. 0 computer software. This improved methodology will require a PI change which has been proposed in conjunction with the BCP.</i>
	<i>Soil sites assessments.</i>	<i>Baseline work projected to be completed per PI requirements.</i>
	<i>Manage groundwater plumes per interim RODs.</i>	<i>All measures projected to meet PI requirements; all baseline work projected to be completed per PI requirements.</i>

Green

PERFORMANCE MEASURES: GW/VZ

None planned in FY 2000.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY00 GW/VZ "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Groundwater Management – Resin Purchase:		
<i>(1) Resin Purchase (BCP-20115)</i>	<i>\$406.6K</i>	<i>\$406.6K</i>
<i>Complete Partitioning of Interwell Treatment at 200-ZP-1 and 200-ZP-2</i>	<i>\$299.4K</i>	<i>\$0.0K</i>
S/Total GW – Vadose Zone Stretch Goals:	<i>\$706.0K</i>	<i>\$406.6K</i>

Green

FY00 GW/VZ "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Provide Permanent Solution for Hanford Groundwater Plumes</i>	<i>\$750.0K</i>	<i>\$0.0K</i>
Complete Remediation of 60 Sq. Mi. of Hanford Site:		
<i>(4) Verify and administratively close 170 wells</i>	<i>\$450.0K</i>	<i>\$0.0K</i>
<i>(5) Decommissioning of 200 wells</i>	<i>\$900.0K</i>	<i>\$0.0K</i>
S/Total GW – Vadose Zone Superstretch Goals:	<i>\$2,100.0K</i>	<i>\$0.0K</i>

Green

Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: GW/VZ)

- Schedule:**

Groundwater Vadose Zone Integration	BCWS \$K	BCWP \$K	Variance \$K
ER02 200 Area Remedial Actions	<i>3,080</i>	<i>2,888</i>	<i>-192</i>
ER08 Groundwater Management	<i>14,283</i>	<i>12,762</i>	<i>-1,521</i>
VZ01 Groundwater/Vadose Zone	<i>6,524</i>	<i>5,336</i>	<i>-1,188</i>
TOTAL Groundwater	<i>23,887</i>	<i>20,986</i>	<i>-2,901</i>

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = -\$192K; -6.2% [Last Month: -\$180K; -6.4%]

Cause: Miscellaneous assessment work rescheduled.

Resolution: None required.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: GW/VZ

PBS-ER08 – Groundwater Management

*Schedule Variance = **-\$1521K; -10.6%** [Last Month: **-\$1754K; -14.6%**]*

Cause: *Groundwater Monitoring sampling collection and analysis (PNNL) fell behind schedule in October/November, due to difficulties in obtaining NCO bargaining unit personnel, and has not yet recovered. (Essentially no change to variance in April vs. March.)*

Resolution: *Additional NCOs have been added and a recovery schedule implemented; unexpected sampling at the 618-11 Burial Ground will impact recovery timing; full recovery is not expected before summer.*

Cause: *Waste shipments to ERDF and resin regeneration at Pump and Treat units have been delayed due to waste disposition issue; no significant impact.*

Resolution: *Waste regeneration shipments have been scheduled through Fluor Hanford.*

Cause: *Resin purchase and resin regeneration delayed due to waste issues.*

Resolution: *Resin has been purchased so schedule variance will correct itself (expected in May). Regeneration issues resolved.*

Cause: *Waste collection and offsite waste analysis slower than anticipated.*

Resolution: *Labor end contract issues have been resolved, recovery progressing but uncertain if full recovery can be achieved.*

PBS-VZ01 – Groundwater/Vadose Zone

*Schedule Variance = **-\$1188; -18.2%** [Last Month: **-\$934K; -17.3%**]*

Cause: *Peer review subpanel meeting was rescheduled; formation of characterization core team late.*

Resolution: *Expect full recovery on peer review scheduling; core team established; deliverable extended by RL.*

Cause: *Resource availability has delayed System Assessment Capability development.*

Resolution: *Subcontract staff has been added to supplement existing staff; expect recovery in July.*

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: GW/VZ

• **Cost:**

Groundwater Vadose Zone Integration	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER02 200 Area Remedial Actions</i>	2,888	2,058	830
<i>ER08 Groundwater Management</i>	12,762	12,324	438
<i>VZ01 Groundwater/Vadose Zone</i>	5,336	5,049	287
TOTAL Groundwater	20,986	19,431	1,555

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = +\$830K; +28.7% [Last Month: +\$701K; +26.5%]

Cause: Efficiencies learned in prior work were applied to Gable Mountain and B-Pond test pit trenching, resulting in savings. Borehole drilling was combined with RCRA drilling resulting in cost savings.

Resolution: Savings will be used to perform other remediation work.

PBS-ER08 – Groundwater Management

Cost Variance = +\$438K; +3.4% [Last Month: +\$446K; +4.3%]

Cause: Underrun due to completion of drilling of ISRM ahead of schedule.

Resolution: Savings will be used to perform other remediation work.

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = +\$287K; +5.4% [Last Month: +\$201K; +4.5%]

Cause: Costs of system assessment capability development less than planned and efficiencies in Science and Technology labor.

Resolution: Savings will be used to perform other remediation work.

REGULATORY ISSUES: GW/VZ

200-ZP-2: *Regulatory agencies desire continued operation of the 200-ZP-2 vapor extraction unit (not included in DWP).*

Yellow

Status: Project personnel met with EPA to discuss the need to restart ZP-2 pending completion of the cost estimate to perform the Partitioning Interwell Tracer Test (PITT) test. Project's recommendation is to perform PITT test. BHI portion of the PITT test estimate is complete. BHI internal management review will be performed once information from Duke Engineering is received.

Well Installation: *RL provide funds for CY 2000 GW RCRA Well Installation.*

Green

Status: On April 19, agreement was reached with Ecology to install fifteen RCRA groundwater monitoring wells for calendar year 2000 (TPA Milestone M-24-00L). Specific well locations have been identified. Awaiting TPA change request approval by Ecology.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

REGULATORY ISSUES continued: GW/VZ

***200 Area Assessment:** RL direction is needed on proceeding with the 200-PW-2 Work Plan. Initiating work on the 200-PW-2 OU is not consistent with funding levels nor RL's path forward strategy for the 200 Area.*

Yellow

***Status:** TPA Milestone M-13-25 requires that the Draft A 200-PW-2 work plan be submitted to the regulators by December 31. DOE letter directing BHI to defer 200-PW-2 is in the approval cycle. This milestone is to be addressed by RL as part of a larger TPA renegotiation package.*

***618-11 Burial Ground Tritium:** A high tritium value was identified in a monitoring well for the 618-11 Burial Ground.*

Yellow

***Status:** A DQO summary report for the Phase II plume investigations near Burial Ground 618-11 is currently being prepared for regulator review. A brief plan of key characterization activities was summarized from this report to aid in review in document review. The Phase I report on the February sampling event is being prepared for release.*

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): GW/VZ

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): GW/VZ

None identified at this time.

INTEGRATION ACTIVITIES: GW/VZ

None identified at this time.

**Surveillance/Maintenance
and Transition Project
(SM&T)**

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month end 2000
All other data as of May 25, 2000. (unless otherwise noted)

Surveillance/Maintenance & Transition Project (SM&T):

ACCOMPLISHMENTS: SM&T

Removal of 105-KE waste is complete. At 105-KW, removal of legacy waste is complete.

Began the Readiness Assessment (RA) for the Pu Loadout Hood work.

Continued to move equipment off the cell cover blocks, lifting the cellblocks, videoing the contents and utilizing the gamma camera to take radiological profiles of the cells in support of CDI FS. Completed the railroad tunnel door repair activities. Received completed acceptance testing and training on the Brokk remotely operated core boring machine.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary Section.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: SM&T

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: SM&T

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): SM&T

- **DOE Secretarial:**
None identified at this time.

- **DOE EM Performance Agreement:**
None identified at this time.

- **TPA Milestones:**
None identified at this time.

- **DNFSB Commitment:**
None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

PERFORMANCE OBJECTIVES: SM&T

Outcome	Performance Indicator	Status
<i>Restore the River Corridor for Multiple Uses</i>	<i>Deactivation and preparation for decommission.</i>	<i>Baseline work is projected to be completed per PI requirements.</i>
<i>Transition Central Plateau to Support Long-Term Waste Management</i>	<i>Perform S&M/risk reduction on inactive facilities to eliminate/stabilize environmental, human health hazards until D&D; Perform CDI activities.</i>	<i>CDI baseline work projected to be completed per PI requirements. DOE-Waste Management funding shortfalls will require scope adjustment.</i>

Green

PERFORMANCE MEASURES: SM&T

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: SM&T

FY00 SM&T "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Deactivate 183-N Water Treatment Plant (Phase I) (BCP-20111)</i>	<i>\$131.0K</i>	<i>\$131.0K</i>
<i>Deactivate 183-N Water Treatment Plant (Phase II) (BCP-20175)</i>	<i>\$158.8K</i>	<i>\$158.8K</i>
<i>Asbestos Abatement & Repairs (100, 200, & 300 Areas)</i>	<i>\$494.0K</i>	<i>\$0.0K</i>
<i>Complete the CDI Technical Work to Support the Phase II Feasibility Study</i>	<i>\$625.0K</i>	<i>\$0.0K</i>
<i>S/Total SM&T -Facility Transition Stretch Goals:</i>	<i>\$1,408.8K</i>	<i>\$289.8K</i>

Green

Yellow

**Status: Requires funding support outside of ER to execute Superstretch.*

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000**

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *SM&T*

• **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS \$K	BCWP \$K	Variance \$K
<i>ER05 Surveillance & Maintenance</i>	8,254	7,664	-590
<i>ER07 Long-Term Surveillance & Maintenance</i>	5	13	8
TOTAL SM&T	8,259	7,677	-582

Green

PBS-ER05 – Surveillance and Maintenance

Schedule Variance = -\$590K; -7.1% [Last Month: -\$506K; -7.9%]

Cause: Delivery of new 100 N water treatment plant skid is three weeks behind schedule.

Resolution: Skid was delivered May 18, and installation continues.

Cause: CDI process cell access work delayed due to canyon crane being down for repairs.

Resolution: Crane NDE completed – recommendations implemented; schedule expected to be recovered. (SV BCP approved by RL.)

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$47K for FY 2000)

Schedule Variance = N/A

• **Cost:**

Surveillance/Maintenance & Transition Project	BCWP \$K	ACWP \$K	Variance \$K
<i>ER05 Surveillance & Maintenance</i>	7,664	7,921	-257
<i>ER07 Long-Term Surveillance & Maintenance</i>	13	20	-7
TOTAL SM&T	7,677	7,941	-264

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = -\$257K; -3.4% [Last Month: -\$362K; -6.1%]

Cause: KE/KW legacy waste removal cost overrun.

Resolution: Overrun reflected in EAC.

Cause: 200 Area miscellaneous waste management and increased disposal costs for PHMC re-characterization.

Resolution: Project monitoring costs. Trends identified.

Cause: Underruns on B-Plant S&M and RARA stabilization from work practice efficiencies.

Resolution: Underrun will be utilized for other ER work.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: SM&T	
<i>PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$47K for FY 2000) Cost Variance = N/A</i>	
REGULATORY ISSUES: SM&T	
<i>None identified at this time.</i>	
EXTERNAL ISSUES (I.e. HAB, Congress, etc.): SM&T	
<i>None identified at this time.</i>	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T	
<p>B-Plant/Purex Roof Funding: <i>Ensure funding is provided by Transition Projects per MOUs, to support roof repair commitments for B-Plant and Purex. Facilities have transitioned to ER with the commitment to fund these repairs from the releasing Project.</i></p> <p>Status: <i>Funding for roof repairs has not been included within the current above-the-line Integrated Priority Lists (IPL) targets.</i></p>	Yellow
<p>Stack Ventilation: <i>Problems with stack ventilation, retired filters, and other issues documented in letter, M. C. Hughes to R. Gerton, 9/28/99, "Remaining Issues for the Transition of the B-Plant Facility from DOE-Transition to ER"</i></p> <p>Status: <i>Facility transferred to ERC September 30, 1999. MOA with open items assigned cost/schedule responsibility received September 30. Fluor Hanford, Inc. (FHI) repaired the ductwork on May 2, and performed a leak test of the areas repaired. BHI issued a letter on May 3 to FHI requesting additional information and testing be performed on the exhaust fan assembly in order to meet requirements to assure the repaired assembly will continue to operate correctly. Received response May 22. Evaluation is in progress on response.</i></p>	Yellow
INTEGRATION ACTIVITIES: SM&T	
<i>None identified at this time.</i>	

Pacific Northwest National Laboratory Environmental Management Performance Report

June 2000

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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Introduction

This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-103a, PNNL's Project Status Report for April 2000. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

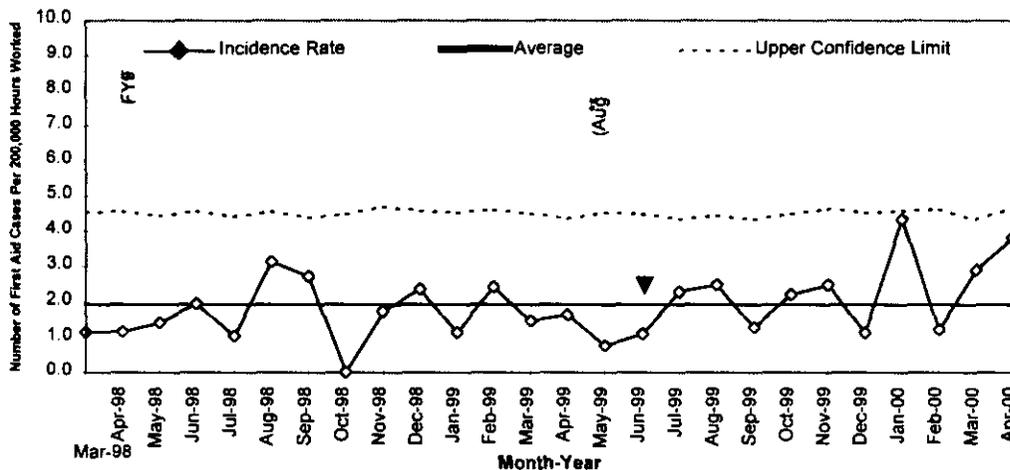
Unless otherwise noted, information in this report is current as of April 30, 2000.

This section provides an executive-level summary of performance information and is intended to bring to Management's attention that information considered to be most noteworthy. The section begins with overviews of safety, followed by a stoplight chart on overall performance.

Safety Overview

The focus of this section is on documenting trends in work-related injuries and illnesses rates. Improvements in these rates result from PNNL's continued implementation of the Integrated Environment, Safety, and Health (ES&H) Management System (ISMS), and the current development and implementation of the Voluntary Protection Program (VPP). Injury and Illness statistical data are presented graphically in this section followed by a summary of the completed and planned actions for the PNNL VPP.

***PNNL First Aid Case Incidence Rate**



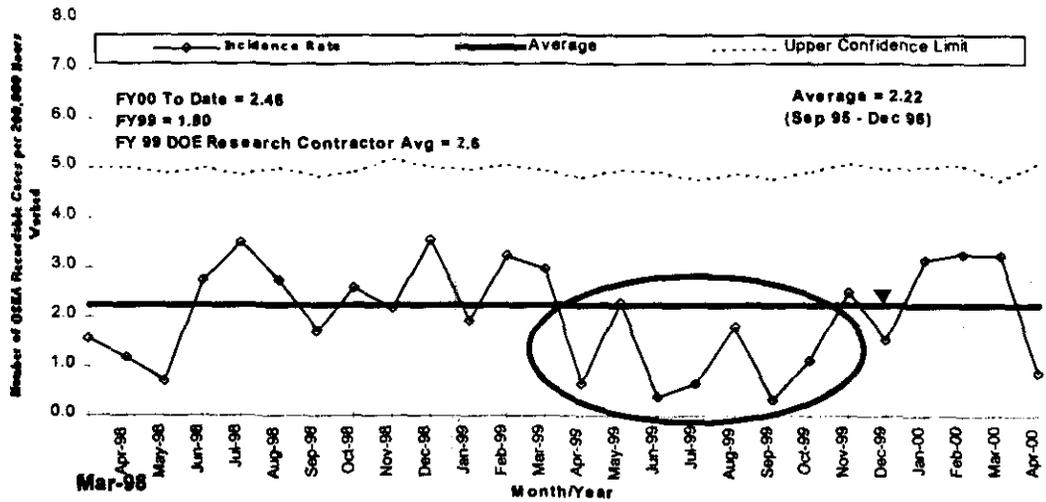
The data over the past two fiscal years has been relatively stable. The current fiscal year is showing a general increase and the data are being monitored for future changes and stabilization.

* Includes all Pacific Northwest National Laboratory Operations.

** Aug 97 - Feb 98 average was updated to reflect corrected case counts/rates.



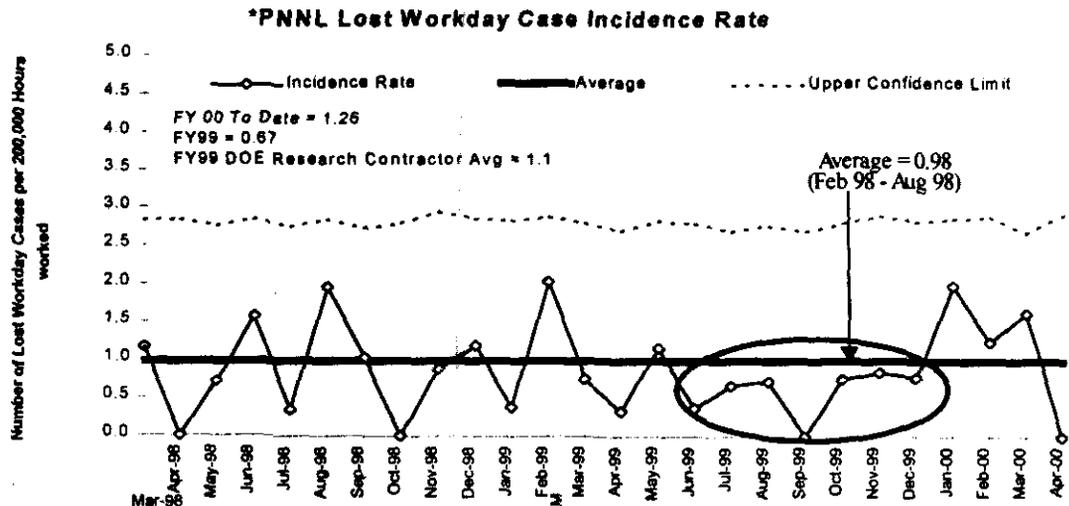
PNNL Environmental Management Performance Report - June 2000
Section A - Executive Summary



* Includes all Pacific Northwest National Laboratory Operations.

This indicator has been generally stable over the long term. There was however, a decrease in the rates during the period of April 99 - October 99 followed by an increase back to the previous levels. The noted decrease appears to have been temporary and the data are being monitored for future stabilization.

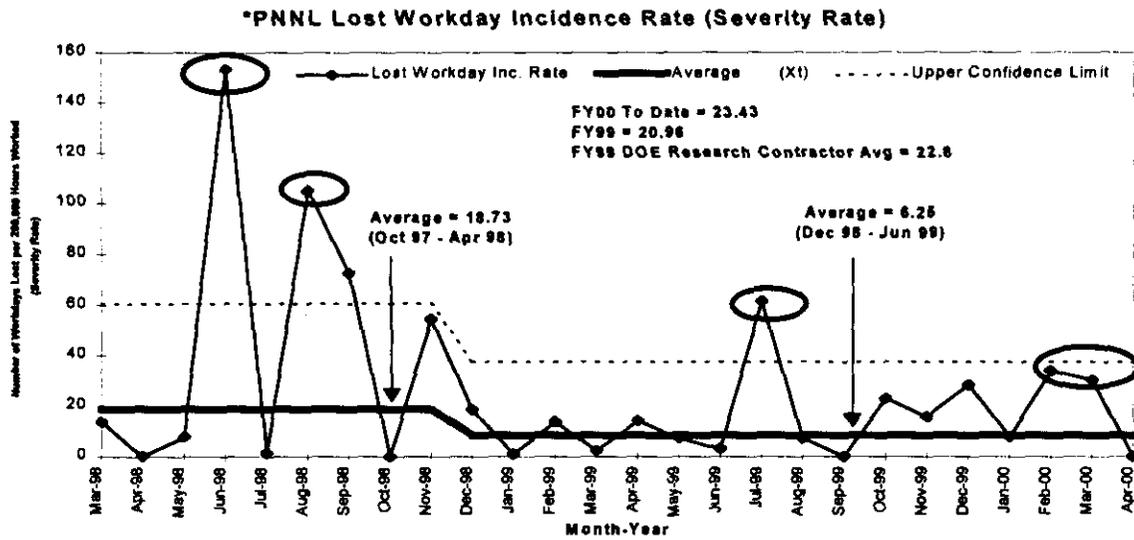
* Includes all Pacific Northwest National Laboratory Operations.



This indicator has been generally stable over the long term. There was however, a temporary short term decrease during the period of June 99 - December 99 followed by an increase to levels near the pre June 99 Levels. Data are currently being monitored for future stabilization.

* Includes all Pacific Northwest National Laboratory Operations.

PNNL Environmental Management Performance Report - June 2000
Section A - Executive Summary



The data for the current fiscal year are showing a general increase over the December 98 - June 99 average and are being monitored for future stabilization. Out of the months with data points above the upper control limit, June 98 is the only month that is currently accumulating lost workdays.

*Includes all Pacific Northwest National Laboratory Operations.

Overall FY00 Safety Performance

	Fiscal YTD Count	Current Month Count (April)	Current Month Injury Types
First Aid Cases	47	9	(1) Contusion, (1) Foreign Body, (1) Laceration, (1) Multiple, (5) Strain
Recordable Cases	39	2	(1) Bursitis, (1) Strain
*Lost Workday Cases	20	0	N/A

*Includes Lost and Restricted Workday Cases.

Voluntary Protection Program

PNNL is actively pursuing "star" status and is scheduled to submit a VPP "star" status application in September 2000.

PNNL VPP accomplishments include:

- increased worker communications on VPP including the development of a PNNL VPP web page (<http://www.pnl.gov/vpp/>)
- formation of a VPP steering committee and issuance of a PNNL VPP Management Plan
- PNNL worker participation at the VPP conference in Washington D.C. and the Health & Safety Exposition 2000 (Pasco, WA)

Cost/Schedule Performance Stoplight

The following rating reflects overall cost/schedule performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*

	
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Green: Satisfactory
Yellow: Significant improvement required
Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests for the period covered. In fiscal year (FY) 2000, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Performance Data and Analysis

As of April 30, 2000 the cumulative costs are \$7.4 million with a positive cost variance of \$0.4M and a cumulative schedule variance of negative \$0.7M. Variances are within established thresholds, however, a brief explanation follows the tables and chart.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$7.8	\$7.4	\$0.4
Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$7.8	\$8.5	(\$0.7)

FY 2000 Cost/Schedule Performance - All Fund Types **Cumulative to Date Status - (\$000)**

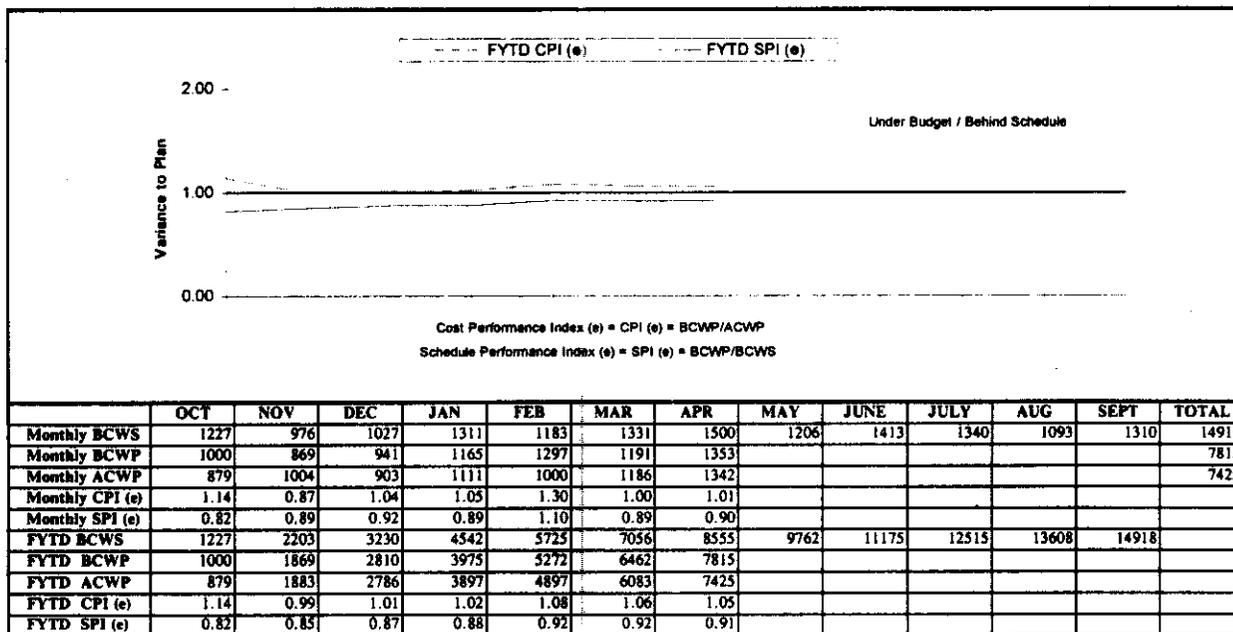
WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	\$8,555	\$7,815	\$7,425	\$390	5	\$(740)	-9
	Total	\$8,555	\$7,815	\$7,425	\$390	5	\$(740)	-9

PNNL Environmental Management Performance Report - June 2000
Section B - Project Performance Summary

Cost / Schedule Performance Indices

FY 2000 Cum to Date Status

(\$000s)



The positive cost variance of \$0.4M results from reduced overhead rates and delayed billings. A change request was submitted to revise the basis of estimate and align budget and funds. It is expected that the baseline activities will be completed within the funding allocation. The primary reasons for the cumulative schedule variance of negative \$0.7M are described below:

- Difficulties in completing the final details in the high dose waste container designs as well as a late start in fabrication of the drum handling system. If fabrication of drums can begin as anticipated the current slippage should have no impact in the actual disposal of the High Dose Waste scheduled for the end of the Fiscal Year.
- The RLWS delay affected planned cask shipments to the 200 Area for final disposition. A change request was submitted to delete waste disposal scope affected by RLWS delays.

The Mod Permit for the RLWT is scheduled to be filed by the end of May and the integrity assessment of the RLWT piping is scheduled for June. The earliest the 204-AR Facility (Receiver facility) will receive waste via the LR-56 Truck is mid-July.



Regulatory Unit

Monthly Performance Report

April 2000

**Office of Safety
Regulation of the
TWRS
Privatization
Contractor**

**June 2000
Environmental Management
Performance Report Submittal**

**Richland Operations
P.O. Box 550
Richland, Washington
99352**

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EXECUTIVE OVERVIEW

EXECUTIVE SUMMARY

During the reporting period, significant Regulatory Unit (RU) activities included the following:

- the External Independent Review (EIR) Team, a Congressionally chartered and funded group of senior industry managers, concluded that the RU was ready to proceed with Part B-2 of the TWRS-P Contract;
- RU acceptance of the BNFL Inc. Corrective Action Plan (CAP) that addresses inspection findings associated with inadequate maintenance of the Authorization Basis;
- start of the RU evaluation of the BNFL Inc. "Non-radiological Worker Safety and Health Plan" and selected BNFL Inc. technical contract deliverables;
- start of an inspection of the BNFL Self-Assessment and Corrective Action Program; and
- start of a special inspection to assess the independence of the BNFL Inc. Project Quality Assurance Organization from the TWRS Privatization Project Organization.

Subsequent to this period, on May 8, 2000, the Secretary announced DOE's intent to terminate the BNFL Inc. contract, establish a bridging contract with Bechtel and issue a Request for Proposal for the remaining design and construction, and subsequent operation of the Waste Treatment Plant. Later discussions between the RU and BNFL confirmed the intent that the transition contractor will retain schedule of the near-term regulatory submittals. Therefore, the RU will continue with preparations to start review of the contractor's Radiation Protection Program on May 31, 2000, and review of the contractor's Quality Assurance Program and Implementation Plan for construction activities and the Limited Construction Authorization Request, both on June 26, 2000.

MONTHLY HIGHLIGHTS

External Independent Review Team

In March and April, an External Independent Review (EIR) Team, a Congressionally chartered and funded group of senior industry managers, assessed the RU's readiness to proceed with Part B-2 of the TWRS-P Contract. The EIR Team concluded that the RU was ready to proceed into Part B-2 and identified no concerns associated with the safety regulation of TWRS-P by the Regulatory Unit. In reaching this conclusion, the Team observed the following:

- the nuclear safety regulations of TWRS-P will withstand technical and public scrutiny;
- the established review schedule is consistent with the Contract; provisions exist to address emerging issues;
- the RU has adequate authority and resources; and
- the RU inspection and oversight functions provide assurance and confidence.

Inspection Program

The RU started two inspections of BNFL this month, a planned inspection and a special inspection. The planned inspection (report to be issued by June 1, 2000) examined BNFL's Self-Assessment and Corrective Action Program. RU inspectors determined that BNFL had an effective self-assessment program and an ineffective corrective action program. Preliminary Findings of this inspection included the following:

1. BNFL failed to implement timely corrective actions for identified deficiencies – corrective actions for approximately half of the Deficiency Report (DR's) reviewed were significantly untimely
2. BNFL failed to follow procedures – examples include a DR not written and a group of five DR's not being converted to Corrective Action Reports when required
3. BNFL failed to implement adequate quality improvement procedures – errors in logic and lack of adequate detail to ensure effective implementation were in evidence.

The special inspection examined the independence of the BNFL Inc. Project Quality Assurance Organization from the TWRS Privatization Project Organization. RU inspectors determined that the BNFL Inc. Project Quality Assurance Organization was not sufficiently independent from the TWRS Privatization Project Organization. Preliminary Findings of this inspection included the following:

1. BNFL failed to follow 10 CFR 830.120 and its QAPIP, in that the Project General Manager, who has no management authority over the Project QA Manager, reassigned the Project QA Manager.
2. BNFL failed to follow its stop work procedure, in that the Project Quality Assurance Manager provided the Deputy Project Manager with a stop work order, but work was not stopped.

BNFL also submitted its Corrective Action Plan (CAP) that addressed RU findings from an inspection of the BNFL authorization basis (AB). The BNFL CAP commits to bring the project's authorization basis current with the project technical baseline and to revise the process for keeping it current. The RU reviewed and approved the CAP. During the week of April 24, the RU assessed the Contractor's progress in implementing the CAP, as part of a previously scheduled inspection. The inspectors concluded that Contractor's progress in implementing corrective actions was substantial and consistent with commitments made in the CAP. The inspectors found that Contractor management involvement was evident in implementing the corrective actions and that appropriate resources had been provided. The RU will assess the completion of corrective actions during the next inspection of the AB that is currently scheduled for November 2000.

Design Reviews

The BNFL Contract Part B-1 design documentation was provided to the RU during the week of April 24, 2000. The RU is intensively reviewing these documents and will include results of this review in the RU input to the DOE assessment of BNFL's readiness to proceed into Part B-2. The RU's evaluation of the Part B-1 design documents will assess the current design maturity for FY 2000 and FY 2001 safety deliverables and authorization requests including the Construction Authorization Request, which includes the Preliminary Safety Analysis Report.

On April 20, 2000, the RU observed a multi-discipline design review evaluating low-activity waste (LAW) vitrification facility layouts. BNFL has made significant progress on the LAW facility design since the vitrification concept was revised to utilize a locally shielded melter in November 1999. RU observation of BNFL design review in accordance with the TWRS-P Contract is ongoing. BNFL has postponed design reviews of fire sprinkler systems, fire detection systems, and fire hazard analysis from May 18, 2000 to May 24, 2000, and review of the Low-Activity Waste Pretreatment Facility layout from May 18, 2000 to May 30, 2000. A review of High-Level and Low-Activity Waste Melter Design and Operation has also been scheduled for May 23, 2000. The RU will observe these

scheduled design reviews.

Topical Meeting

Chemical hazards was the subject of the April Topical Meeting. BNFL proposed to use chemical industry standards to control chemical hazards unless the chemical event initiated radiological consequences. If radiological consequences were initiated by a chemical event, the ISM process would be used to develop control strategies and standards.

The most significant chemical hazards that were identified were the release of NO_x gas from the melter offgas system to parts of the facility that could be occupied by workers. This scenario would develop rapidly if offgas exhaust fans failed. Fan failure would cause the offgas system to pressurize and lethal concentrations of NO_x gas would leak into workspaces within minutes. A suitable control strategy for this event had not been developed.

The next Topical Meeting is scheduled over a two-day period, May 31 and June 1, 2000. The subject of this meeting is the ISM Cycle 2 evaluation of hazards and control strategies.

Memorandum of Understanding (MOU)

A Memorandum of Understanding (MOU) was put in place to describe how the RU, the Washington State Department of Ecology (Ecology), and the Washington State Department of Health (WDOH) will coordinate regulatory activities. This MOU applies only to the design, construction, operations, and deactivation of the TWRS-P facility by BNFL.

The RU, Ecology, and WDOH assess BNFL compliance with applicable safety and environmental limits, regulations, and standards. The RU is responsible for safety regulation. Ecology implements and regulates the federal hazardous waste program and other environmental programs in Washington State. The WDOH regulates radioactive airborne emissions. The regulatory responsibilities of these entities are generally unique. However, submittals required of BNFL, and oversight of BNFL may have common elements. The purpose of coordinating regulatory activities is to improve regulatory efficiency and effectiveness by eliminating duplicate efforts with no diminution of protection provided to the workers, the public, and the environment.

Industrial Health and Safety Program

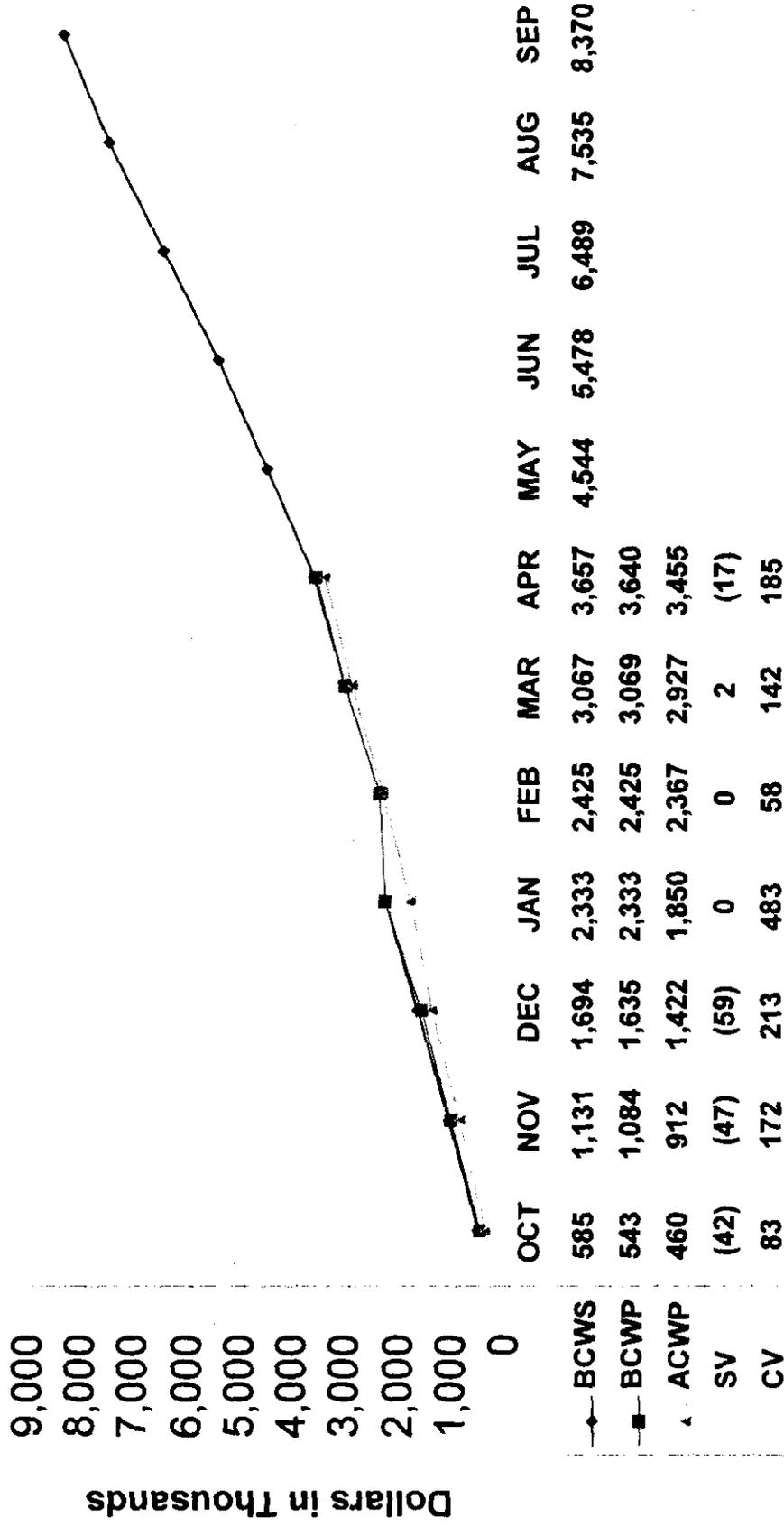
The RU is continuing to define a comprehensive program for regulating industrial hygiene and safety (IH&S). During the month, the RU received the Contractor's "Non-radiological Worker Safety and Health Plan (the Plan)." The Plan defines the Contractor's IH&S program for construction. The RU found the Plan was acceptable for detailed review. The RU started a detailed review according to the Review Guidance and Planning Handbook described below. The review will be completed within 90 days and is not specifically affected by the decision to terminate the BNFL contract. The RU is expecting the Washington State Department of Labor and Industries and the Occupational Safety and Health Administration, Region 10, to provide informal input to the review. The RU will contact the Tribal Nations to solicit their interest in the Plan and has made it publicly available through the RU website.

The status of the components of the IH&S regulatory program is:

- Policy and Memorandum of Agreement (MOA) - these documents are essential to documenting the RU's authority to regulate IH&S. The documents were revised to reflect the decision to cancel the BNFL contract and were returned to the signature process. Signatories include EH-1, EM-1 and S-3 (Policy only).
- Regulatory Plan - this plan describes the process the RU will follow internally in regulating IH&S. The Regulatory Plan is in the signature process for issuance. The RU expects to revise the plan prior to the start of construction and continues to seek public, contractor and agency review.
- Position Paper - the RU's position on regulating IH&S was revised (Revision 2) and sent to the Contractor for review and comment on March 2, 2000. No comments have been received to date.
- Review Guidance - Contractor comments on the draft review guidance for the Non-radiological Worker Safety and Health Plan were received. The guidance was revised, reissued, and is being used in the currently ongoing review of the Plan.
- Review Planning Handbook – This detailed description of how the RU will conduct the review of the Plan was issued in April. The review team is proceeding with their review according to the requirements of the Planning Handbook
- Inspection Program - the Verification and Confirmation Official and his staff are defining a comprehensive IH&S inspection program. (The basic scope of the program was provided to BNFL as part of the Regulatory Plan.)

COST PERFORMANCE (Graph)

Regulatory Unit Cost Performance



COST PERFORMANCE SUMMARY

The fiscal year-to-date cost through April reflects a favorable variance of \$185K. This variance results from lower than anticipated costs associated with the development of CAR Review handbooks, Program Planning and Control and the resolution of Topical Issues. The RU is working through a mid-year review to update the Program's baseline to the latest BNFL schedule (prior to the termination decision) and identify the Programmatic cost savings that will be utilized for new emergent workscope. Current planning efforts reflect an approximate \$900K schedule delay (primarily Standards Approval (SA) Package Review activities into FY 2001) and Programmatic cost savings of \$500K. When finalized, the mid-year review will be documented in a formal change request scheduled for completion and approval by May 31, 2000.

NEAR-TERM LOOK AHEAD

	Planned Due Date
May	
• Issue IH&S Regulatory Plan	5-17-00
• Present 14 th Quarterly Briefing to Headquarters	5-18-00
• Issue Assessment of BNFL's ISMP Implementation	5-23-00
• Issue Tri-Annual Openness Report	5-26-00
• Issue Corrective Action Inspection Report	5-30-00
• Conduct Topical Meeting on 2 nd Iteration: Hazards Control Strategies	5-31-00
• Commence Review of BNFL RPP	5-31-00
• Issue Special Inspection Report of BNFL's QA Organization Independence	5-31-00
• Issue Assessment of BNFL's Part B-1 Design Documentation	5-31-00
• Mid-year Change Request Approved	5-31-00
June	
• Issue SAP Review Handbook	6-09-00
• Conduct Topical Closeout Meeting	6-13-00
• Conduct QA Inspection	6-19-00
• Commence Review of BNFL LCA Request	6-26-00
• Commence Review of BNFL QAPIP	6-26-00
• Issue LCA Review Handbook	6-30-00
• Issue Revised Openness Plan	6-30-00
July	
• Issue QA Inspection Report	7-17-00
• Issue ER on BNFL IH&S Program Description	7-21-00
• Conduct Topical Meeting on Seismic PRA	7-25-00

PROGRAM PERFORMANCE OVERVIEW

PERFORMANCE SUMMARY (Chart) – Program Direction and Program Support

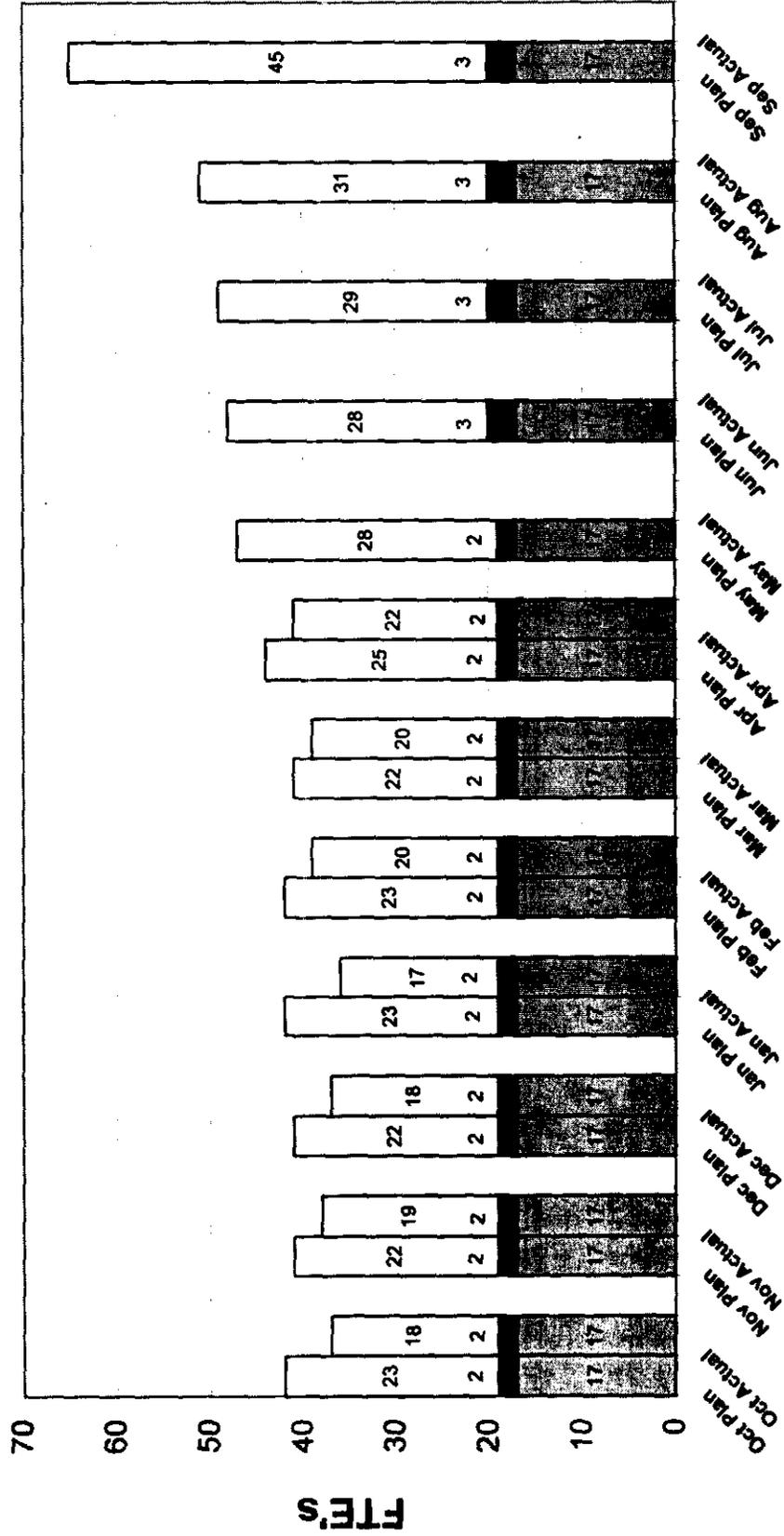
	DOLLARS IN \$000's					FY 2000		
	BCWS	BCWP	ACWP	SV	CV	BAC	EAC	Delta
RU1 Program Management								
<i>Program Direction</i>	\$722	722	797	0	(\$75)	\$1,290	1,403	(\$113)
<i>Program Support</i>	980	980	902	0	78	1,882	1,623	259
Total RU1	1,702	1,702	1,699	0	3	3,172	3,026	146
RU2 Regulatory Policy & Practices								
<i>Program Direction</i>	74	70	79	(4)	(9)	105	120	(15)
<i>Program Support</i>	161	159	176	(2)	(17)	371	338	33
Total RU2	235	229	255	(6)	(26)	476	458	18
RU5 Recurring Safety Reviews								
<i>Program Direction</i>	239	238	223	(1)	15	424	393	31
<i>Program Support</i>	703	693	648	(10)	45	1,351	1,244	107
Total RU5	942	931	871	(11)	60	1,775	1,637	138
RU6 Construction Authorization								
<i>Program Direction</i>	99	99	52	0	47	440	207	233
<i>Program Support</i>	130	130	69	0	61	1,485	399	1,086
Total RU6	229	229	121	0	108	1,925	606	1,319
RU9 Oversight & Inspections								
<i>Program Direction</i>	177	177	150	0	27	305	182	123
<i>Program Support</i>	347	347	307	0	40	624	666	(42)
Total RU9	524	524	457	0	67	929	848	81
RU10 Special Projects								
<i>Program Direction</i>	\$7	7	9	0	(\$2)	\$7	9	(\$2)
<i>Program Support</i>	17	17	42	0	(25)	86	36	50
Total RU10	\$24	24	51	0	(\$27)	\$93	45	\$48
Total Regulatory Unit Program								
<i>Program Direction</i>	\$1,318	1,313	1,310	(5)	\$3	\$2,571	2,314	\$257
<i>Program Support</i>	2,338	2,326	2,144	(12)	182	5,799	4,306	1,493
Total RU Program	\$3,656	3,639	3,454	(17)	\$185	\$8,370	6,620	\$1,750

MILESTONE CONTROL LOG

MILESTONE CONTROL LOG							
MILESTONE	WBS	MILESTONE DESCRIPTION	BASELINE COMPLETION DATE	SCHEDULE STATUS	FORECAST COMPLETION DATE	ACTUAL COMPLETION DATE	
FISCAL YEAR 2000							
RL	00-010	RU902	Standards Selection Inspection rpt issued	10/12/99	Complete	10/06/99	10/06/99
RL	00-011	RU902	Authorization Basis Inspection rpt issued	11/08/99	Complete	12/13/99	12/13/99
RL	00-012	RU902	Safety Integration Inspection rpt issued	12/07/99	Complete	12/03/99	12/03/99
FO	00-013	RU203	IH&S Plan issued	4/07/00	Behind	5/17/00	
FO	00-015	RU205	Revised Interface Plan issued	1/31/00	Complete	1/28/00	1/28/00
RL	00-016	RU902	Design Process Inspection rpt issued	2/14/00	Complete	2/08/00	2/08/00
RL	00-017	RU902	Employee Concerns Program Inspection rpt issued	3/13/00	Complete	3/10/00	3/10/00
RL	00-018	RU902	Training & Qualifications Inspection rpt issued	4/07/00	Complete	4/05/00	4/05/00
RL	00-019	RU608	SAP Rvw Handbook issued	5/12/00	Behind	6/09/00	
RL	00-027	RU608	Initiate Review of SAP	5/15/00	Behind	8/31/00	
RL	00-020	RU605	LCA Rvw Handbook issued	5/17/00	Behind	6/30/00	
FO	00-004	RU502	ER & Approval of QAPIP Rev. 6 issued	7/19/00	Behind	9/21/00	
RL	00-014	RU902	Standards Implementation Inspection rpt issued	6/19/00	Behind	TBD	
RL	00-026	RU605	Initiate Review of LCA Request	6/26/00	On Schedule	6/26/00	
FO	00-002	RU204	Openness Plan Rev. 3 issued	6/30/00	On Schedule	6/30/00	
RL	00-021	RU902	QA Inspection rpt issued	7/17/00	On Schedule	7/17/00	
RL	00-022	RU602	CAR Rvw Handbook issued	6/09/00	Behind	8/24/00	
FO	00-023	RU502	Approval of RPP Rev. #3 issued	8/18/00	On Schedule	8/18/00	
RL	00-024	RU902	Corrective Actions Inspection rpt issued	5/30/00	On Schedule	5/30/00	
RL	00-025	RU902	ALARA Inspection rpt issued	9/11/00	On Schedule	9/11/00	
FO	00-003	RU102	FY 2001 PMP issued	9/29/00	On Schedule	9/29/00	

FULL-TIME EQUIVALENCY PROFILE (Graph)

Regulatory Unit FTE Profile



■ RL Fed ■ Nat'l Lab □ Subcontractor

CHANGE CONTROL STATUS LOG

Regulatory Unit FY 2000 Change Control Log						
CIN#	Change Classified.	Author	WBS#	Date Change Originated	Change Request Explanation	CEB Review Date Disposition
00-001	I	K.D. Grindstaff	1.10	11/99	Processing of the FY 1999 Carryover into FY 2000 Baseline and Realignment of FY 2000 Cost Savings to Emergent Priority Workscope.	11/24/99 Approved
00-002	II	K.D. Grindstaff	1.10	12/99	Added new emergent workscope associated with impact risk balancing between TWRS and the TWRS-P facility.	12/03/99 Approved
00-003	III	K.D. Grindstaff	1.10	1/00	Redistributed funds associated with a task package titled Other Direct Cost (0424ODC).	01/18/00 Approved
00-004	II	K.D. Grindstaff	1.10	1/00	Renamed Cost Account RU1002 from K Basin SAR to Misc. RU Reg. Activities and separated the CAP into three tasks; K Basin SAR, RL Quality Assurance Program Plan, and WIPP Reg. Program Development.	01/20/00 Approved
00-005	I	K.D. Grindstaff	1.10	2/00	Implemented the most recent resource/activity planning effort, utilizing the Project's FYTD cost savings. Mid-year rebaselining effort.	02/25/00 Approved
00-006	II	K.D. Grindstaff	1.10	5/00	Initiated the detailed review of the BNFL process and facility design, which will provide the RU a current understanding of the BNFL process and facility design.	05/02/00 Approved

GLOSSARY

Actual cost of work performed (ACWP): The actual cost incurred and applied or distributed for the work performed within a given time period. It includes all labor categories, material, any other direct costs, subcontract work, and function overhead.

Approved baseline: The budget authorized to perform the workscope that has been agreed upon by the customer and the contractor(s). It is portrayed in the Multi-Year Work Plan with all approved changes. This baseline may or may not be fully funded, and could be more or less than the compliance baseline.

Budget at completion (BAC): The sum of budgets established to complete a program and/or project or any component of a program and/or project.

Budgeted cost of work performed (BCWP): The value for completed work measured in terms of the planned budget for that work. It is synonymous with earned value.

Budgeted cost of work scheduled (BCWS): The time-phased budgeted value of work scheduled to be accomplished over a given time period. The BCWS for a total cost account through its entire period of performance is equal to the BAC for the cost account.

Carryover Workscope: The estimated dollar amount of the workscope that was not completed during the fiscal year and which will be carried over and completed in the next fiscal year.

Compliance baseline: The budget that is required to perform the workscope necessary to be in compliance with State and Federal regulations, enforceable agreement milestones, and DNFSB milestones. The level of activity required to be in compliance assumes sufficient funding. **Note:** Because approved baselines are considered to be compliant, this column will likely be eliminated.

Contract Inherited: The assumed budget for the planned scope of work at the time a new contract is signed by the company responsible for performing the work.

Cost variance (CV): The difference between BCWP and ACWP ($CV = BCWP - ACWP$). At any time, it shows whether the work actually performed has cost more or less than the amount budgeted for the same work.

Cost Performance Indicator (CPI): The CPI is the ratio of BCWP to ACWP, or $(BCWP/ACWP)$.

Earned value (EV): The periodic, consistent, and objective measurement of work performed in terms of the budget planned for that work. The EV is synonymous with the BCWP and it is compared to the BCWS to obtain schedule performance and to the ACWP to obtain cost performance.

GLOSSARY (CONTINUED)

Estimate at completion (EAC): Cost allocated to the work breakdown structure element to date, plus the estimate of costs for authorized work remaining. Authorized work remaining includes any undistributed budget.

Fiscal Year Spending Forecast (FYSF): The estimated total that will be spent from October through September (current Fiscal Year).

Funding carryover and new Budget Authorization (BA): This funding represents both the funding allocated to perform workscope planned in the prior fiscal year, not completed, and approved to be performed in the current fiscal year, as well as new BA to perform the approved baseline workscope.

Funding target: The level of funding that is anticipated (as a result of the Integrated Priority List process) in a given Fiscal Year based on an assumed funding level for the Site.

Multi-Year Work Plan – 10/1/XX: The Project's approved cost/schedule/technical baseline at the beginning of the fiscal year.

Project Execution Module (PEM): The Project Execution Module (PEM) of the Integrated Planning, Accountability, and Budgeting System-Information System (IPABS-IS) replaces the Progress Tracking System (PTS) as EM Headquarters' centralized system for reporting financial, milestone, performance, and other execution-year information for PBSs, sub-PBSs, TTPs, and line item construction projects. In addition, this module collects mid-year and year-end actual performance information against the agreed upon management commitments for the current execution year.

Schedule Performance Indicator (SPI): The SPI is the ratio of BCWP to BCWS, or (BCWP/BCWS).

Schedule variance (SV): The difference between BCWP and BCWS ($SV = BCWP - BCWS$). At any time, or for a given period of time, it represents the difference between the planned dollar value of work actually accomplished and the value of the work scheduled to be accomplished.

Work breakdown structure (WBS): A product-oriented family tree division of real estate, hardware, software, services, and data products that organize, define, and display all of the work to be performed in accomplishing the program and/or project objectives.