

Environmental Management Performance Report February 2001

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

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200



**United States
Department of Energy**

P.O. Box 550
Richland, Washington 99352

Date Received for Clearance Process (MM/YY/DD)

02/01/08

INFORMATION CLEARANCE FORM

A. Information Category

- Abstract
- Summary
- Visual Aid
- Full Paper
- Other _____
- Journal Article
- Internet
- Software
- Report

B. Document Number DOE/RL-2000-76, Rev. 2

C. Title

Environmental Management Performance Report - February 2001

D. Internet Address www.hanford.gov/empr/toc.htm

E. Required Information

1. Is document potentially Classified? No Yes (MANDATORY)

[Signature]
Manager's Signature Required

If Yes _____ NO Yes Classified
ADC Signature Required

2. References in the Information are Applied Technology No Yes
Export Controlled Information NO Yes

3. Does Information Contain the Following: (MANDATORY)

a. New or Novel (Patentable) Subject Matter? NO Yes

if Yes: Disclosure No.: _____

b. Information Received in Confidence. Such as Proprietary and/or Invention

No Yes If "Yes", Affix Appropriate Legends/Notices.

c. Copyrights? No Yes If "Yes", Mach Permission.

d. Trademarks? NO Yes If "Yes", Identify in Document.

4. Is Information requiring submission to OSTI? No Yes

5. Release Level? Public limited

HF 9036

F. Complete for a Journal Article

Title of Journal _____

G. Complete for a Presentation

Title for Conference or Meeting _____

1. Group Sponsoring _____

2. Date of Conference _____

4. City/State _____

3. Will Information be Published in Proceedings? No Yes

6. Will Material be Handed Out? No Yes

1. Author/Requestor

Responsible Manager

D.M. Eder
(Print and Sign)

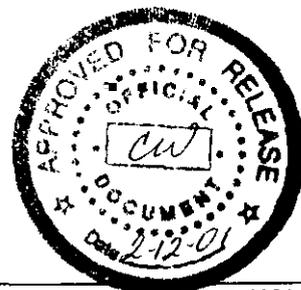
L.E. Maiden
(Print and Sign)

Reviewers	Yes	Print	Signature	Public Y/N (if N, complete)
General Counsel	<input type="checkbox"/>	_____	_____	Y / N
Office of External Affairs	<input type="checkbox"/>	_____	_____	Y / N
DOE-RL	<input type="checkbox"/>	_____	_____	Y / N
Other	<input type="checkbox"/>	C. Willingham	<i>[Signature]</i>	Y / N
Other	<input type="checkbox"/>	_____	_____	Y / N

I. If Information Includes Sensitive Information and is not to be released to the Public indicate category below.

Information Clearance Approva

- Applied Technology
- Personal/Private
- Proprietary
- Business-Sensitive
- Predecisional
- UCNI
- Protected CRADA
- Export Controlled
- Procurement-Sensitive
- Patentable
- Other (Specify) _____



C. If Additional Comments, Please Attach Separate Sheet

Environmental Management Performance Report February 2001

Date Published
February 2001

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

Project Hanford Management Contractor for the
U S Department of Energy under Contract DE-AC06-96RL13200



**United States
Department of Energy**

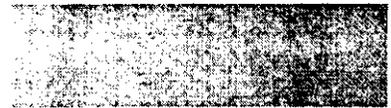
P.O. Box 550
Richland, Washington 99352

Clive Willingham 2-12-01
Release Approval Date

LEGAL DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or **service** by trade name, trademark, manufacturer, or otherwise, does not **necessarily** constitute *or* imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

This report has been reproduced from the best available copy



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. (FHI) and its subcontractors,
- Environmental Restoration Contract through Bechtel Hanford, Inc. (BHI), and its subcontractors, and
- Pacific Northwest National Laboratories (PNNL) for Science and Technology support to the EM Mission.

This report is a monthly publication that summarizes EM Site performance under RI Operations Office. It is organized by the three 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
February 2001**



Fluor Hanford
A Fluor Global Services Company

Table of Contents

Section

Executive Summary	A
The Plateau	
Waste Management	B: 1
Analytical Services (222-5, HASP, WSCF)	B: 2
Nuclear Material Stabilization	C: 1
The River	
River Corridor	C: 2
Spent Nuclear Fuel	D
Advanced Reactors Transition	E
EM - 50 Science & Technology Activities	F
The Future	
HAMMER	G
Multiple Outcomes	
Landlord	H
support	I
National Programs	J

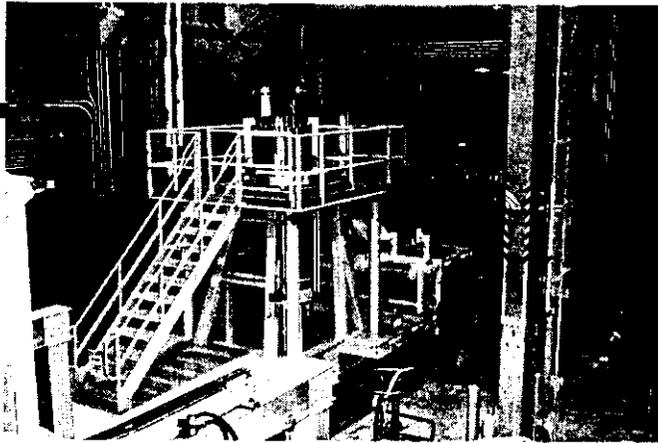
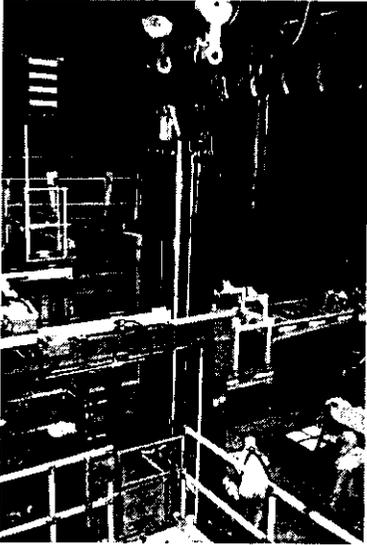
INTRODUCTION

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 December 31, 2000. **All** other information is updated as of January 19, 2001 unless otherwise noted.

“Stoplight” boxes are used to indicate at a glance the condition of a particular area. Green boxes denote on schedule. Yellows denote behind schedule but recoverable. Red is either missed or unrecoverable.



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 December 30, 2000. Accomplishments, Issues and Integration items are current as of January 23, 2001 unless otherwise noted.

The section begins with a description of notable accomplishments that have occurred since the last monthly 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, funds management and milestone performance. Overviews of safety ensue. The next segment of the Executive Summary, entitled Breakthroughs and Opportunities for Improvement represents potential significant improvements over the established baseline. The Critical Issues section is designed to identify the high-level challenges to achieving cleanup progress.

The next section includes FY 2001 **EM** Corporate Performance Measures, 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.

Note: Milestones tracked and reported in this report consist of two Department of Energy levels. In descending order these levels are 1) Department of Energy-Headquarters (HQ), and 2) Richland Operations (RL). Because it is also useful to distinguish milestones based on specific drivers, the Site applies a designation for those milestones created or tracked to meet the requirements of Enforceable Agreements (EAs). When a milestone satisfies both an EA requirement and a milestone level, it is categorized as both. However, in order to avoid duplicate reporting, this report accounts for each milestone only once. Where an overlap exists between EA and a level (i.e., HQ or RL), the milestone is reported as EA. Additionally, Tri-Party Agreement (TPA) Major and Interim milestones are EA milestones. TPA milestones that are not enforceable are called Target milestones and are included in the TPA/EA milestone tables found in the applicable Project Sections.

NOTABLE ACCOMPLISHMENTS

Mixed Low Level Waste (MLLW) Treatment/Disposal Initiated — Thermal treatment ("shake-down testing") of MLLW was initiated at ATG on December 31, 2000. Initiation of production thermal treatment is forecasted for March 2001.

Nuclear Material Disposition Accelerates — A new daily high in the production rate for packaging nuclear material in cans was reached January 22, 2001 with the welding of seven cans.

B Cell Cleanout Continues — The 324 Building Deactivation Project staff shipped two additional Steel Waste Disposal Boxes (SWDBs) to compliant storage for a total of six of the twelve to fourteen SWDBs estimated to complete B Cell cleanout.

Fuel Movement Activities Continue — Loading of an additional six Multi-Canister Overpack (MCO) fuel storage baskets in the second MCO is complete. Shipment of the second MCO is planned for the week of January 29.

PERFORMANCE DATA AND ANALYSIS

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

FY 2001 Schedule and Cost Performance

Schedule Performance — There is a FY 2001 year-to-date 6.4 percent (\$7.4 million) unfavorable schedule variance that is within the established 10 percent threshold. Projects outside the threshold are Nuclear Materials Stabilization, River Corridor, Advanced Reactors Transition, Technology Development, and Landlord. Detailed variance analysis explanations can be found in the Project Sections.

Cost Performance — FY 2001 year-to-date cost performance reflects an 11.1 percent (\$12.1 million) unfavorable cost variance that is outside the established 10 percent threshold. Projects outside the threshold are Spent Nuclear Fuels, Advanced Reactors Transition, Technology Development, Landlord, and National Programs. Detailed variance analysis explanations can be found in the Project Sections.

BASELINE PERFORMANCE STATUS

FY 2001 COST / SCHEDULE PERFORMANCE – ALL FUND TYPES

CUMULATIVE TO DATE STATUS (\$M)

	DATA THROUGH						PEM*	EAC	
	Current Fiscal Year Performance (\$ x Million)					Schedule Variance			Cost Variance
	FYTO BCWS	BCWP	ACWP						
The Plateau									
1 2 Waste Management TP02 WM03 05	22.1	22.0	20.7	(0.0)	1.4	99.6	102.6		
1 2 4 Analytical Svcs (222-S HASP,WSCF) WM06	7.7	7.1	6.6	(0.6)	0.5	31.4	31.8		
1 4 5 Nuclear Materials Stabilization TP05	26.2	22.1	23.5	(4.1)	(1.4)	106.6	106.6		
Subtotal The Plateau	56.0	51.3	50.8	(4.7)	0.5	237.7	241.0		
The River									
1 4 River Corridor TP01 TP04 TP08 TP10 TP12 TP14	10.7	9.4	9.6	(1.3)	(0.2)	4.78	51.1		
1 3 Spent Nuclear Fuel WM01	31.5	31.3	44.6	(0.2)	(13.3)	18.98	18.98		
1 1 2 Advanced Reactors (EM)	0.5	0.4	0.2	(0.1)	0.2	1.5	1.5		
Technology Development ** (EM-50)	5.0	4.3	3.8	(0.7)	0.4	1.99	1.99		
Subtotal The River	47.6	45.4	58.3	(2.2)	(13.0)	25.90	26.23		
The Future									
1 9 HAMMER HM01	1.3	1.3	1.2	(0.0)	0.0	5.6	5.6		
Subtotal The Future	1.3	1.3	1.2	(0.0)	0.0	5.6	5.6		
Multiple Outcomes									
1 5 Landlord TP13	4.4	3.9	3.5	(0.5)	0.5	20.2	25.7		
1 8 Mission Support OT01	5.3	5.4	5.8	0.1	(0.4)	24.1	24.1		
1 1 1 & WM07 National Programs 0102 WM07	0.9	0.9	0.7	(0.0)	0.2	4.0	4.0		
Subtotal Multiple Outcomes	10.7	10.3	9.9	(0.4)	0.3	48.3	53.8		
Total PHMC Projects	115.6	108.2	120.2	(7.4)	(12.1)	550.5	562.7		

Notes: Column headings [Budgeted Cost of Work Scheduled (BCWS), Budgeted Cost of Work Performed (BCWP), etc.] are defined in the glossary at the end of the report. Calculations are based on Project Baseline Summary detail. Waste Management, Analytical Services, River Corridor, and Nuclear Materials Stabilization have included RL-Directed costs (e.g. steam and laundry) in the Project Execution Module (PEM) BCWS. Technology Development does not include ORP/RPP TTPs currently reported in the RL Dataset in PEM.

FUNDS MANAGEMENT FUNDS VS. SPENDING FORECAST (\$000) (FLUOR HANFORD, INC. ONLY)

Data Through December 2000

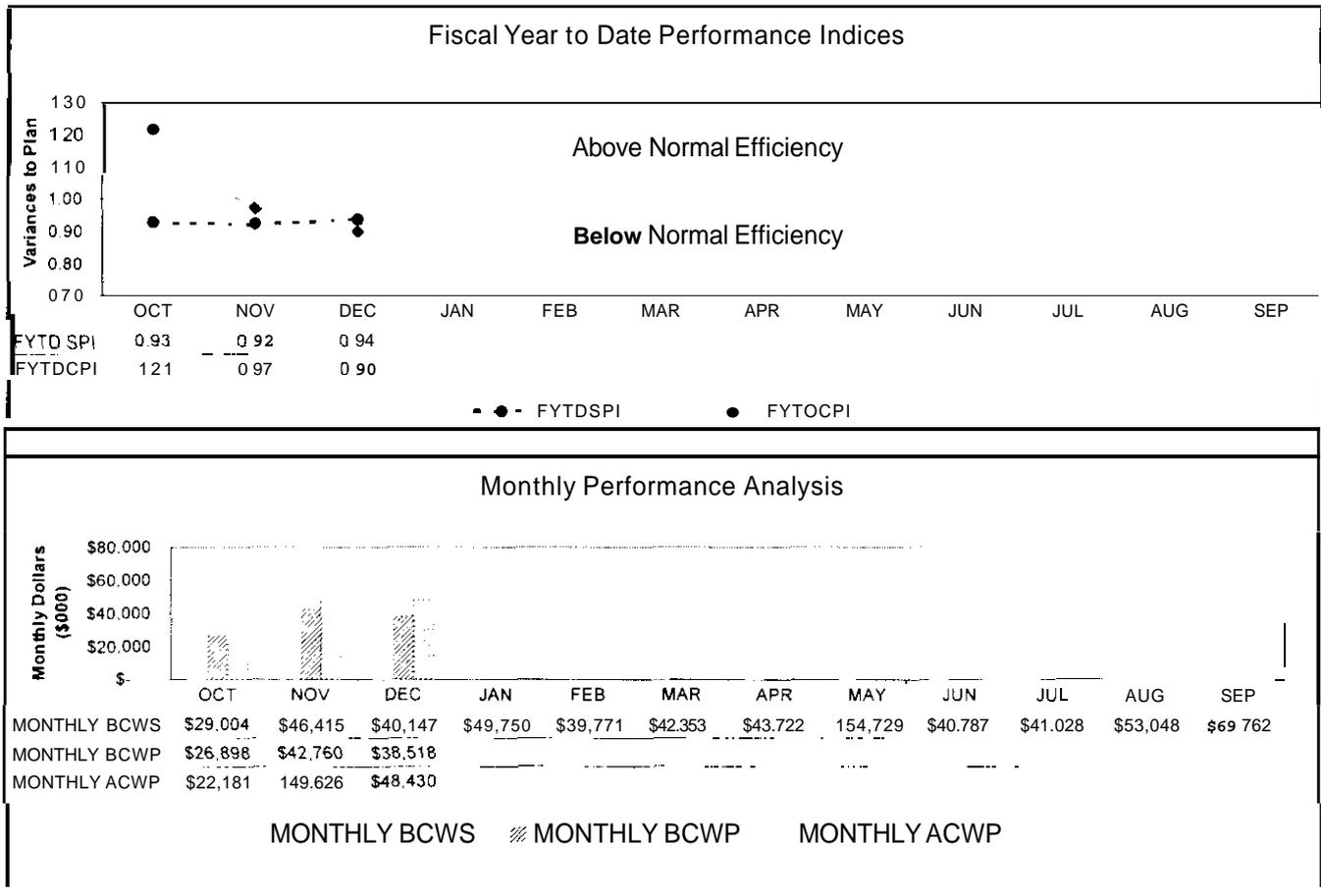
	Project Completion *			Post 2006 *			Line Items/Other *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Plateau									
1.2 Waste Management <small>TP02 WM03.05</small>				97,294	96,939	355			
1.2.4 Analytical Svcs (222-S,HASP,WSCF) <small>WM06</small>				30,778	31,636	(858)			
1.4.5 Nuclear Materials Stabilization <small>TP05 Line Item</small>	91,466	91,624	(158)				13,484	13,284	200
Subtotal The Plateau Operating	\$ 91,466	\$ 91,624	\$ (158)	\$ 128,072	\$ 128,575	\$ (503)			
Subtotal The Plateau Line Item							\$ 13,484	\$ 13,284	\$ 200
The River									
1.4 River Corridor <small>TP01 TP04 TP08 TP10 TP12 TP14 WM05</small> <small>Line Item</small>	49,706	49,601	105	5,637	5,551	86			
1.3 Spent Nuclear Fuel <small>WM01 Line Item</small>	188,071	183,400	4,671				3,485	3,485	-
1.1.2 Advanced Reactors (EM)									
Subtotal The River Operating	\$ 237,777	\$ 233,001	\$ 4,776	\$ 5,637	\$ 5,551	\$ 86			
Subtotal The River Line Item							\$ 3,501	\$ 3,501	\$ -
The Future									
1.9 HAMMER <small>HM01</small>				6,345	5,373	972			
Subtotal The Future				\$ 6,345	\$ 5,373	\$ 972			
Multiple Outcomes									
1.5 Landlord <small>TP13</small>				22,167	22,724	(557)			
1.8 Mission Support <small>OT01</small>				17,692	17,210	482			
Subtotal Multiple Outcomes Operating				\$ 39,859	\$ 39,934	\$ (75)			
Subtotal Multiple Outcomes Line Item							\$ -	\$ -	\$ -
Total PHMC Proj Operating	\$ 329,243	\$ 324,625	\$ 4,618	\$ 179,913	\$ 179,433	\$ 480			
Total PHMC Line Items/Other							\$ 16,985	\$ 16,785	\$ 200

* Control Point

Notes: This chart reflects FH Project structure, which divides certain PBS's (WM05 and TP12) between projects. This breakout is necessary to provide FH project managers with information specific to their areas of responsibility and accountability and to facilitate effective management of the funds within their control (obligated to the PHMC). Consequently, these figures will differ from those shown elsewhere in this report (as generated in the PEM system). For purposes of funds management, the "Other" category includes all funding sources not suitable for redistribution within the Project Completion and Post 2006 control points.

The following charts provide an overall graphical view of cost and schedule performance.

FY 2001 SCHEDULE / COST PERFORMANCE



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 three milestones were completed on or ahead of schedule, three milestones were completed late, and two milestones are overdue. The two overdue milestones are associated with two projects: River Corridor (Section C: 2) and Spent Nuclear Fuel (Section D).

In addition to the FY2001 milestones described above, there is one overdue milestone [Waste Management (Section B: 1)] from FY1999 and two [Waste Management (Section B: 1) and River Corridor (Section C: 2)] from FY2000. Further details regarding these milestones may be found in the referenced Project Sections.

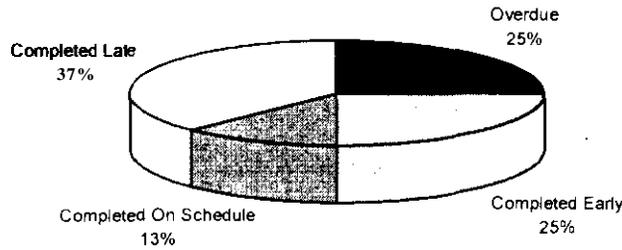
FY 2001 information is depicted graphically on the following page. For additional details related to the data in the graphs and prior year milestones, refer to the relevant project section titled "Milestone Exception Report."

FY 2001 information reflects the Phase 1 Multiyear Work Plans (MYWPs). 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.

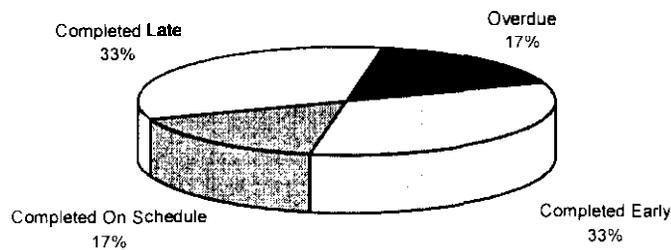
TOTAL ALL HANFORD PROJECTS MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	1	1	0	4	0	6
DOE-HQ	0	0	0	0	0	2	1	3
RL	2	1	2	1	9	27	0	42
Total Project	2	1	3	2	9	33	1	51

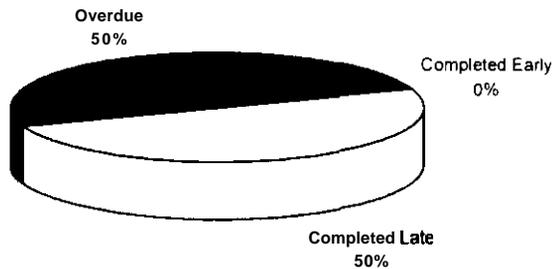
Total Project (FYTD)



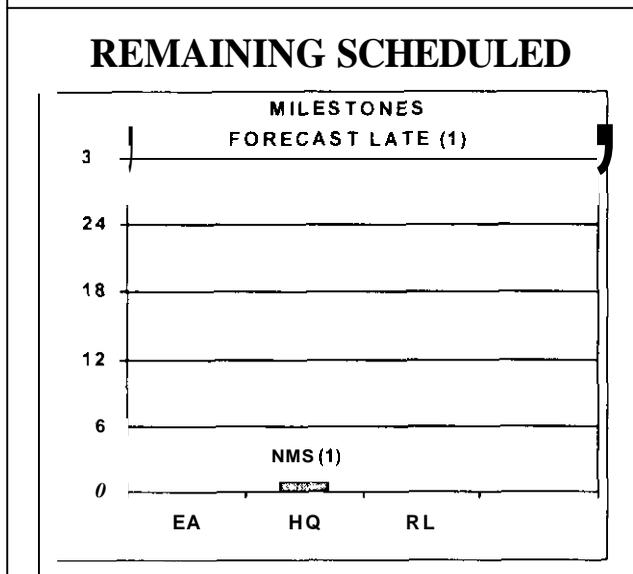
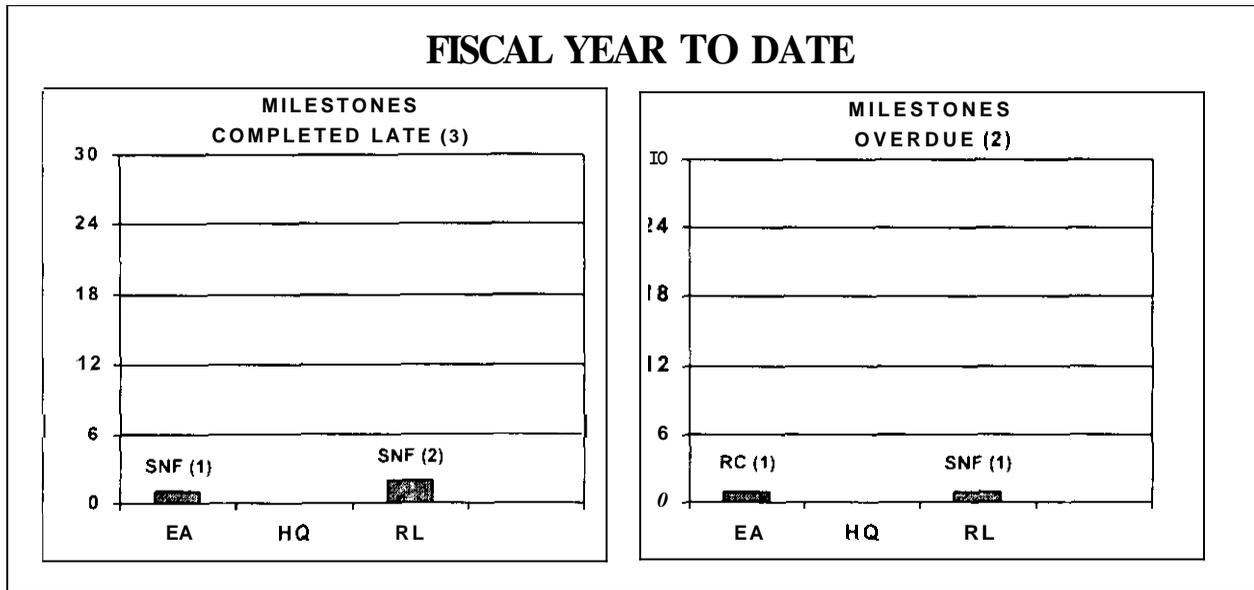
RL



Enforceable Agreement



MILESTONE EXCEPTIONS



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

On December 6, 2000, after working 11 million hours since the previous lost away workday injury, Fluor Hanford experienced a lost away workday injury. This lost away workday was due to surgery required from an injury in July 2000, which had not been responding to treatment. The record of 11 million hours and nearly one calendar year without a lost away injury was the result of the diligent efforts of all employees, including bargaining unit, staff, management, and subcontractors to improve the safety and quality of work performed.

The Lost or Restricted Workday Case Rate has been below average for ten of the past eleven months. This is a statistically significant improvement in this case rate, and is a result of ongoing safety improvement efforts.

Fluor Hanford continues to implement ergonomic efforts to protect workers from awkward body motion and computer keyboard hazards. A core team of Health Physics Technicians is closely examining ergonomic issues with their occupation, and actions are being taken to improve the ergonomic properties of their hand held equipment. These efforts should support the ongoing decrease in OSHA recordable case rate and continue the exemplary lost away workday record.

Fluor Hanford is the recipient of this year's Association of Washington Business (AWB) Better Workplace Certificate of Merit in Workplace Safety for firms with more than 250 employees. Fluor Hanford was recognized at a presentation ceremony on December 13, 2000. The AWB recognized Fluor Hanford for its strong support for workplace safety and employee involvement in workplace improvements.

Protection Technology Hanford (PTH), a corporate subsidiary of Philadelphia-based Protection Technology, Inc., and subcontractor to Fluor Hanford, Inc. has achieved VPP Merit Status, an industry occupational health and safety standard that has been awarded to only 555 of the millions of businesses operating nationwide. PTH has shown the DOE and OSHA that its own internal safety and accident prevention programs are so rigorous and its past record so successful, that the organization will be allowed to "self-police" in the area of safety and health, and could be exempted from external safety inspections for a period of up to five years.

The Waste Management Project (WMP) is well on the way to 2 million safe hours. There have been recent significant reductions in the OSHA Recordable Case Rate, and the Lost/Restricted Workday Case Rate. Improvement still needs to continue in their OSHA Recordable Case Rate.

The Analytical Services Project (AS) Lost Away Workday Case Rate for FY 2000 increased to 0.9. A July 2000 case gained a lost away workday in December 2000, ending the Fluor Hanford record at 11 million hours without a lost away workday.

The Nuclear Material Stabilization Project (NMS) has exceeded 1.2 million safe work hours since the last lost away workday case. The NMS OSHA Recordable Case Rate is 1.3 for FY 2001 to date.

The River Corridor Project (RCP) is approaching 1.5 million safe work hours since their last lost away workday case. A new baseline for the RCP OSHA Recordable Case Rate was established at 3.0 cases per 200,000 hours due to a peak in cases in the summer of 2000, but there have been no new OSHA recordable cases in the past four months.

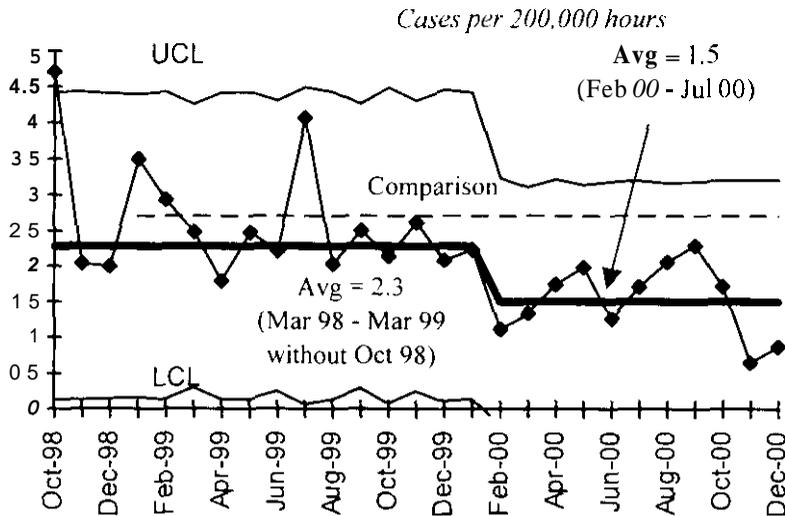
The Spent Nuclear Fuels Project (SNF) has achieved 2.2 million safe work hours. The SNF OSHA Recordable Case Rate for the past three months has been favorable and is at the FH 0.9 goal, but this time period is not long enough to show a permanent improvement, especially given the unpredictable nature of the past data.

The Landlord Project (LL) Lost Away Case Rate is excellent and LL has achieved one and a quarter million safe work hours. The LL OSHA Recordable Case Rate has been below average for seven consecutive months, a statistically significant decrease.

Due to space constraints, FY 1996 through FY 1998 data are not portrayed on the following graphs.

Total OSHA Recordable Case Rate

Green



FY 2000 = 1.9
FY 2001 to date = 1.1
Contractor Comparison Average = 2.7 (CY99)

Recent data have been stable within the new 1.5 baseline. The FH Team continues to look for opportunities to reduce injuries in the areas of ergonomics and lacerations.

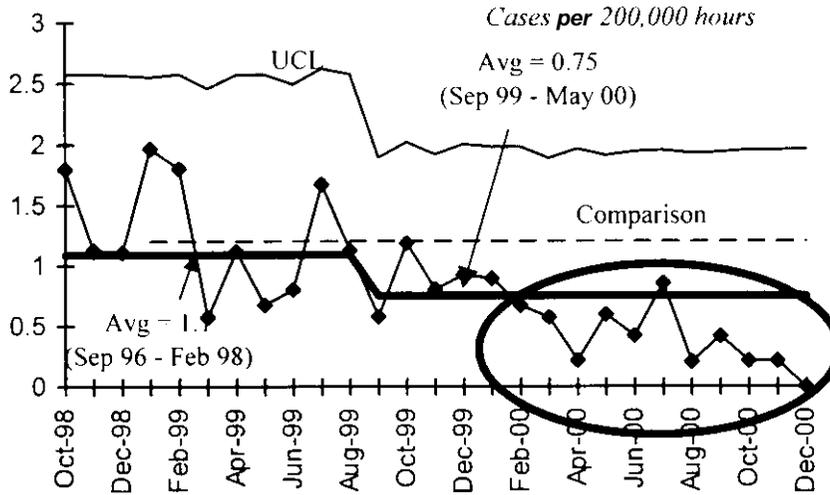
FH implemented a program to target an OSHA Recordable Case Rate of 0.9. The Fluor Global Services goal is 1.0. This is in line with Fluor's corporate value of safety and our commitment to the safe clean-up of the Hanford Site.

A team continues to work on Health Physics Technician ergonomics, focusing upon work practices and equipment. HFTs are the leading source of injuries, and these are primarily ergonomically related. Actions are being taken to address human factors issues with equipment and the aging workforce through the cooperation of the HPT's, their management, ES&H, and HEHF.

The Department of Energy complex-wide rates for DOE contractors are used as comparisons on these charts. These data are retrieved from the EH-33 reports at <http://tis.eh.doe.gov/cairs/stats.html>.

OSHA Lost/Restricted Workday Case Rate

Green

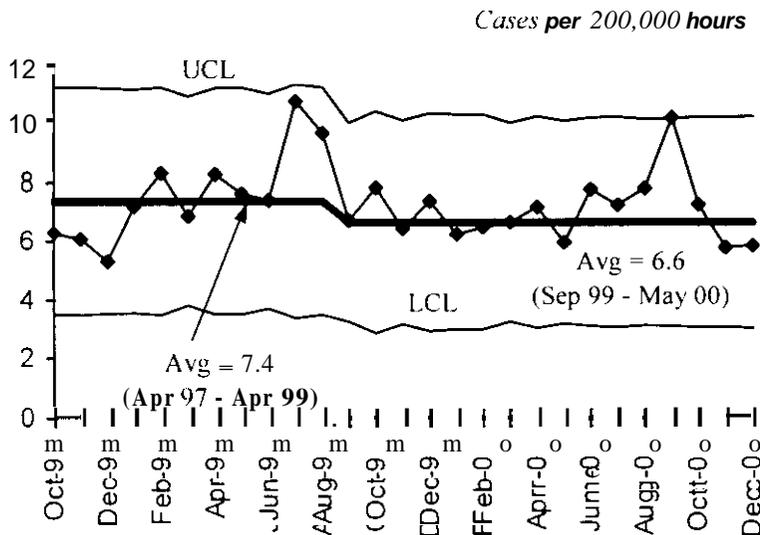


FY 2000 = 0.64
 FY 2001 to date = 0.14
 Contractor Comparison Average = 1.2 (CY99)
 This chart displays a significant decreasing trend, with 10 of the past 11 months in a row below average.

FH tracks the hours between Lost Away Workday Cases (not including restricted workday cases). This record reached 11 million hours in December, but on December 7, 2000 a lost away workday was incurred on an injury which occurred on July 28, 2000. Surgery was required to correct the condition caused by that injury. This resets the safe hour count to July 28, 2000 to present, which is 4.8 million hours.

FIRST AID CASE RATE

Green

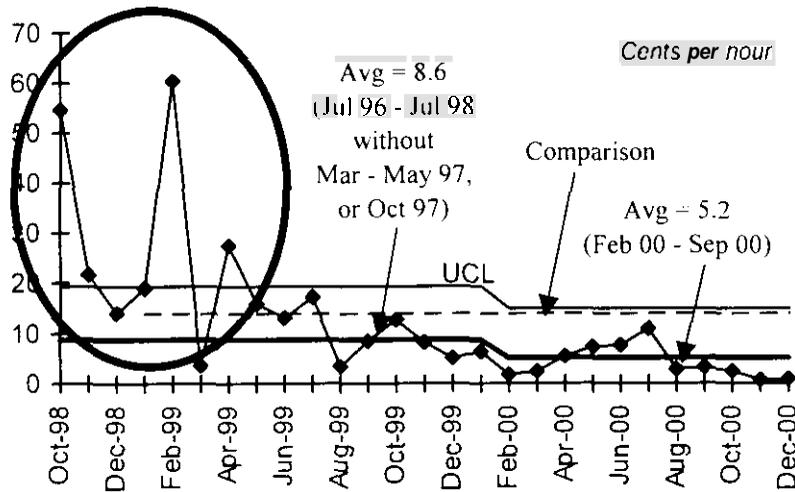


First Aid Rate undergoes seasonal cycles. Increases occur in warmer weather due to insect and animal encounters, and due to wind related minor injuries. First Aid case rate has remained relatively stable, a good indicator that injuries are not being under-reported.

There was a nearly significant increase in September 2000, but the increase appears to be primarily related to summer increases in insect and wind hazards. Past activities to increase awareness of wind hazards and actions to control insects and animals appear to be having an effect.

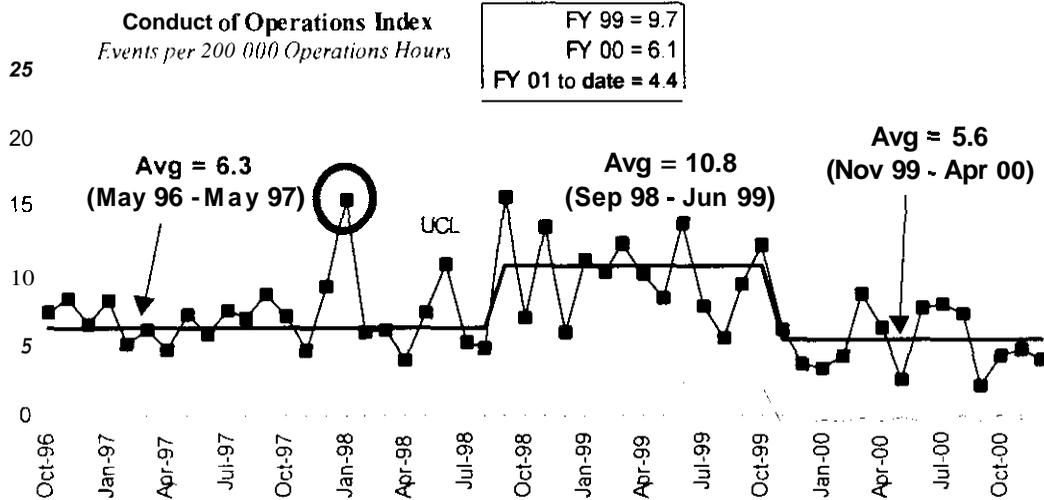
The hazard of receiving wind-borne debris in eyes when working outdoors has considerably increased due to the bare, exposed sand left by the Hanford wildfire.

DOE SAFETY COST INDEX



FY 2000 = 6.1
FY 2001 to date = 1.3
Contractor Comparison Average = 13.9 (CY99)
The current baseline has been adjusted upwards due to additional restricted days gained on cases in the Feb 00 - Sep 00 time interval. Past data continue to be corrected as further days accumulate on any work restrictions or lost days.

CONDUCT OF OPERATIONS / ISMS STATUS



ISMS STATUS

Green

The Waste Management Project (WM) ISMS portion of the Facility Evaluation Board (FEB) in-brief was presented the first week in January. The FEB briefing included topical information relating to the National ISM Conference held in early December in the Tri-Cities (WA). The FEB assessment is currently in process.

WM personnel updated the configuration control procedure (WMP 200, Section 1.19) with the project's ISMS System Description.

There were continued safety improvements at PFP through Integrated Environmental, Safety and Health Management System (ISMS).

The River Corridor Project (RCP) Facility Evaluation Board assessment has been completed. The report on grading is being finalized. The RCP ISMS Sustain and Maintain process is in place.

The Advanced Reactors Transition Project continues to work on improvement initiatives that resulted from the ISMS Phase II readiness review. These initiatives include improving the Automated Job Hazard Analysis (AJHA) process and worker involvement in the preparation of work documents.

The Landlord Project Voluntary Protection Program (VPP) application was submitted to DOE and the evaluation was conducted November 14 through November 16, 2000. Initial feedback from the evaluation team was extremely positive. Final results from the evaluation are expected in January 2001.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Alternate Fuel Transfer Strategy (AFTS) — The AFTS will move fuel from the K East (KE) Basin to the K West (KW) Basin for processing in lieu of processing fuel in the KE Basin. This strategy will greatly reduce worker radiation exposure (physical), safety risks, and increase the confidence level that the life cycle cost and schedule objectives can be achieved. This strategy will reduce the complexity of the process and the safety envelope.

300 Area Accelerated Closure Plan (ACP) — The ACP provided the basis for the new "Done-in-a-Decade" closure project saving over \$1.0 billion. A Baseline Change Request (BCR) has been issued to prepare the Area 1 Engineering Evaluation & Cost Analysis (EE/CA) and to begin skyline reduction activities during FY 2001, with incremental funding provided by RL.

Technical Reviews of 327 Hot Cell Removal — Technology Management, in conjunction with RCP, submitted a draft proposal for conducting a review of the feasibility of intact removal of hot cells from the 327 facility. The topic and scope of this proposal was accepted by 327 Facility management; the review began January 22, 2001.

Remote Size Reduction System — FH has been notified that the Remote Operations Size Reduction System (ROSRS), a remote glove box size reduction system designed and fabricated for use at Rocky Flats, will not be utilized. FH, in conjunction with RL, Rocky Flats, and EM-50, is leading an effort to evaluate the redeployment of the ROSRS to Hanford. The recommendation is targeted to be completed by August 2001.

Value Engineering for Configuration Management — River Corridor Project is planning a Configuration Management (CM) Value Engineering (VE) Study March 5 - 9, 2001. The team that will participate in the CM VE Study includes personnel from the RCP, FH Project Operations Center, other FH Projects, RL, and Bechtel Hanford, Inc. The purpose of the VE Study is to seek out cost-effective CM methods that can be applied to facilities that are either transitioning to deactivation or in a deactivation mode.

Opportunities for Improvement

Mixed Waste Focus Area — Waste Management continues to work with the Mixed Waste Focus Area (Robotics Product Line) on a technology development/ demonstration activity at Hanford. The details of a demonstration/deployment of size-reduction technologies are being worked out.

WESF Basis for Interim Operations (BIO) — The WESF rapid loss of pool cell water accident and associated controls are being evaluated in depth and will be documented in a revision to the WESF BIO. A reduction in the minimum staffing requirement is expected from this analysis and BIO revision.

Multi-Canister Overpack (MCO) Production Rate Improvements — The Spent Nuclear Fuel Project is currently analyzing the reduction of fuel processing, loading, and drying times in an effort to meet and improve the baseline schedule for MCO processing.

PFM Schedule Improvement — Plant management has identified, and requested DOE-RL concurrence, for direct disposal of a number of candidate low gram plutonium nitrate solutions currently scheduled for $Mg(OH)_2$ processing. This modification, if approved, will result in schedule acceleration of the solutions stabilization project and reduce processing, packaging, and storage costs.

Billet Safety Analysis Report for Packaging (SARP) — The Unirradiated Uranium Billet Safety Analysis Report for Packaging (SARP) is required to support shipment of uranium billets off-site. The current uranium billet SARP, Revision K, with a Certificate of Compliance (COC), allows shipment of only three billet boxes per trailer instead of five boxes per trailer as were analyzed for the revision. Shipping five boxes instead of three will save approximately \$200K of the billet transportation cost. A revised SARP to allow for the five billet boxes per trailer has been prepared and is targeted to be issued by January 31, 2001.

Value Engineering Crane Maintenance — A value engineering study to determine alternatives and solutions to reduce 324 Building crane downtime and personnel dose was completed on January 12, 2001. A broad range of recommendations was provided to RCP management in the following categories: work management, maintenance, training, operations, engineering and spares management. The recommendations are currently being evaluated in preparation for implementation.

Landlord Basis of Estimates — The Landlord Master Plan provides basis of estimates, which will validate the baseline in the MYWP as Phase II planning activities continue.

ISSUES

TPA Milestone **M-91-12** Dispute — Ecology has been notified that RL has invoked the Dispute Provision of the TPA relative to completion of the milestone to initiate thermal treatment. WMP is supporting RL preparation of the dispute response.

242A Evaporator Campaign Potential Delays — Issues with PCBs may impact the current plans to initiate the FY 2001 campaign in March 2001. Negotiations with the Environmental Protection Agency are continuing.

Inability to meet TPA Milestone on B Cell Cleanup — The schedule for completing B Cell cleanup was impacted primarily due to technical/mechanical issues (high-dose SWDBs, 30-ton crane and 3-ton crane repairs, and Safety Analysis Report revision) and needed operational improvements, as well as a reduction in the amount of overtime previously planned in the baseline schedule. FH, in concert with RL and Ecology, has prepared a revised schedule that also predicts future schedule impacts. FH is currently on schedule to meet the new commitment date. (*No further status to be provided.*) See the River Corridor Project Section C: 2 for more information.

EM CORPORATE PERFORMANCE MEASURES

Performance Measures	FYTD Planned	FYTD Actual
Facilities Deactivated/Decommissioned		
Facilities deactivated	7	7
Facilities decommissioned	7	7
TRansUranic (TRU) Waste		
Stored - total inventory (m ³)	16,467	16,405
Disposed (shipped to DOE site m ³)	17	18
High Level Waste		
Stored - total inventory (m ³)	2	2
Treated (m ³)	0	0
Mixed Low Level Waste		
Stored - total inventory (m ³)	7,581	7,525
Treated (m ³)	0	0
Disposed	2	1
Low Level Waste		
Stored - total inventory (m ³)	299	299
Disposed (on-site/commercial) (m ³)	2,628	2,150
Material Stabilized		
Plutonium Oxide (cans)	148	0
Plutonium Solution (L)	137	136
Plutonium Residue (kg)	293	59
SNF Moved to Dry Storage		
Heavy Metal (MT)	5.26	5
Technology Deployments	7	1
Pollution Prevention		
HAZ (MT)	39	3
SAN (MT)	1,692	204
LLW (m ³)	418	30
MLLW (m ³)	131	21
Cleanup/Stabilized Waste Avoided		
FY2001 planned baseline amount (m ³)	1,926	411
FY2002 planned baseline amount (m ³)	N/A	

All of the above reflects the FY2001 year to date through December 2000 status. Baseline Performance Measures are in the process of being updated to the newly agreed to FH contract and will be portrayed in future reports. For deviations +/- 10%, see the following projects sections: LLW Disposed (Waste Management Project); Materials Stabilized - Plutonium Oxide, and Residue (Nuclear Materials Stabilization

EM MANACEMENT COMMITMENT MILESTONES

EM Management Commitment Milestones are currently being negotiated and will be reported when approved,

CRITICAL FEW PERFORMANCE INCENTIVES

The following table portrays the incentives contained in the new contract extension, and are not reflected in all the Project Sections of this report. Reporting relating to the revised incentives for all Projects will begin with the next report.

PERFORMANCE MEASUREData Through
December 2000**Spent Nuclear Fuel:**

Measure – Transfer K-Basin Facility to River Corridor Contractor
Remove spent fuel by July 31, 2004 Green

300 Area Cleanup:

Measure – Accelerate 300 Area cleanup Green

Measure – Support River Corridor Project contract transition Green

200 Area Facility Disposition:

Measure – Disposition surplus buildings and rolling stock Green

Waste Management:

Measure – Treat and Dispose MLLW Green

Measure – Certify TRU waste and ship to WIPP Green

Measure – Complete physical activities necessary to store K-Basins sludge at T-Plant Green

Measure – Complete contractor readiness assessment (T-Plant) Green

Measure – Prepare T-Plant to support M-91 activities Green

Plutonium Stabilization:

Measure – Pu metal/oxides/other types dispositioned
All Pu bearing materials stabilized by May 31, 2004 Green

Measure – PFP Deactivation Green

Note: Above ratings reflect newly established contract commitments that have not been fully incorporated into project baselines. Consequently, these ratings may differ from those found in the project sections which reflect current baseline performance. Yellows noted above are behind schedule but recoverable. Red is either missed or unrecoverable.

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.

- Waste Management continued support to Nuclear Materials Stabilization for removal of waste from the Plutonium Finishing Plant
- Analytical Services continues to support ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Techniques for improving $Mg(OH)_2$ precipitate processing of plutonium bearing solutions are being worked jointly by staff members of the Plutonium Process Support Laboratories and the Pacific Northwest National Laboratory. In order to stabilize oxides containing chloride impurities a meeting has been held with PNNL to select the characterization and material pretreatment methods to remove chlorides prior to processing.
- Through involvement with the National Facility Deactivation Initiative, Hanford, Rocky Flats, and Savannah River submitted a joint proposal focused on deployment of large equipment size reduction systems. DOE-HQ/EM-50 plans to announce the selection of the winning proposals by the end of January 2001.
- Spent Nuclear Fuel (SNF) final disposition interface activities, including Office of Civilian Radioactive Waste Management (OCRWM) Quality Assurance (QA) Program implementation, is ongoing with the National SNF Program.

- The SNF Project and Waste Management Project continued preparations for K Basins' sludge removal and Shippingport (PA) Pressurized Water Reactor Core 2 SNF removal.
- The SNF Project and Bechtel Hanford, Inc. worked together on shipping requirements for SNF discovered during upcoming 105F and 105H reactor basins deactivation.

UPCOMING PLANNED KEY EVENTS

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

Waste Management

- Conduct 242-A evaporator campaign in March 2001.
- Commence TRU waste shipments to WIPP on March 29, 2001.
- The Land Disposal Restriction Report will be prepared and issued by April 30, 2001 to meet TPA milestone M-26-01.
- Accelerate Readiness at T Plant to Receive and Store Spent Nuclear Fuel K Basin Sludge -
 - Complete procedures, training, and Operations Readiness Review (ORR) by June 2001.
 - Complete entire deck clearing in FY 2001.
 - Complete safety basis documentation and long lead procurements in FY 2001.
 - Install handling, drying and loading equipment in FY 2001.

Nuclear Materials Stabilization:

- Receive delivery of the 2736-ZB BTS and Outer Can Welder (OCW) during the second quarter of FY 2001.
- Complete repackaging of Pu metal inventory (inner cans) by March 31, 2001.
- Complete modifications to one vault cubicle by April 2, 2001.
- Complete repackaging and shipping of Rocky Flats Ash to the Central Waste Complex (CWC) by April 30, 2001.
- Complete stabilization of plutonium alloys by June 30, 2001.

River Corridor Project

- Implement technical update of 324 Authorization Basis (Safety Analysis Report) by January 27, 2001.
- Procure the robotic system from Cybernetix to support 324 Building in-cell cleanout (delivery is scheduled in March 2001).
- Complete Removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment by March 30, 2001.
- Begin 224-T facility initial entry and characterization by mid-April 2001.
- Complete shipment of approximately 235 metric tons of excess uranium billets and approximately 5 metric tons of uranium dioxide to the DOE Portsmouth site in Ohio by March 31, 2001 and disposition approximately 140 metric tons of surface contaminated uranium fuel by June 30, 2001.
- Complete shipment of B Cell mixed and low-level waste to the 200 Areas by July 31, 2001.
- Implement technical update of 327 Authorization Basis (Basis of Interim Operation) by the end of FY 2001.
- Demolish 3902A, 3902B, and 303-K Buildings in the 300 Area by September 30, 2001.
- Disposition uranium billets, uranium dioxide, surface contaminated fuel and scrap materials in 200/300 Areas, and thorium-232 from 303-K Facility by September 30, 2001.

Spent Nuclear Fuels

- Complete KE Basin Integrated Water Treatment System definitive design in April 2001.
- Submit Annual Debris Report to Department of Ecology/Environmental Protection Agency (EPA) in May 2001.
- Initiate KW Basin spent nuclear fuel canister cleaning operations August 2001.
- Continue receipt of MCO shipments through FY 2001.

Landlord

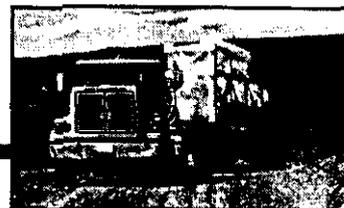
- Complete Project L-309, "Replace Main Water Lines" by January 2001.
- Complete installation of a chlorine containment system for Project L-303, "200 West Area Chlorine Mitigation" in March 2001.
- Complete Construction for Project L-270, "Emergency Services Renovation," in April 2001.
- Complete Definitive Design for Project L-339, "PFP Water System Isolation – Install Sanitary Water to WRAP," in April 2001.
- Issue Notice of Award for Fixed Price Construction for Project L-298, "Road Resurfacing," in April 2001.

PHMC Environmental Management Performance Report – February 2001



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

G.H. Sanders, RL
(509) 376-6888

E.S. Aromi Jr., WMH
(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 included in the River Corridor Project, whereas the Liquid Effluents (200 LEF) work scope remains in Waste Management. For the purpose of performance analysis, PBS WM05 is reported in its entirety in the Waste Management Project (WMP), which has the majority of the work scope and funding.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of December 31, 2000. Other data is updated as noted.

NOTABLE ACCOMPLISHMENTS

ATG, Inc. (ATG) initiated thermal treatment ("shake-down testing") of Mixed Low Level Waste (MLLW) on December 31, 2000. ATG is continuing to experience technical difficulties that will delay the initiation of production thermal treatment until March 2001. A total of 33 hedgehog packages of waste were shipped to ATG for thermal treatment through January 23, 2001 (18 cubic meters [m³] Fiscal Year To Date [FYTD]). A total of 133 m³ of waste for non-thermal treatment (debris) was shipped to ATG. Through January 23, 2001, for the current report period, 250 m³ FYTD have been shipped. ATG has treated approximately 80 percent of the debris waste, but has been delayed in preparing waste profiles for return to the site for disposal due to resource limitations. Initial returns are expected in February 2001.

Processing at the Waste Receiving and Packaging Plant (WRAP) – All data is FYTD:

	<u>12/29/00</u>	<u>1/16/01</u>
Nondestructive Examination (NDE) on Drums	367	449
NDE on Boxes	2	2
Nondestructive Analysis (NDA) on Drums	265	323
TRU Glovebox Visual Exam - Drums	2	2
TRU Glovebox Repackaged Drums	14	22
Low Level Waste Glovebox Drums	0	0

Through December 31, 2000, 9.4 million gallons of wastewater were processed through the Effluent Treatment Facility (ETF) FYTD. Through January 16, 2001 an additional 1.6 million gallons of wastewater were processed.

On January 12, 2001, Waste Encapsulation Storage Facility (WESF) successfully completed the transfer of 3000 gallons of Low Level Liquid Waste from TK 100 by tanker to the ETF. This was the first transfer from WESF in 2½ years.

A "crosswalk" has been drafted showing how the Strategic Plan text and master schedules can be modified to meet the Tri-Party Agreement requirements for the M-91 Project Management Plan (PMP). Initial review feedback from the Washington State Department of Ecology (Ecology) was positive. Discussions with Ecology relative to the schedule for modifying the Strategic Plan will follow.

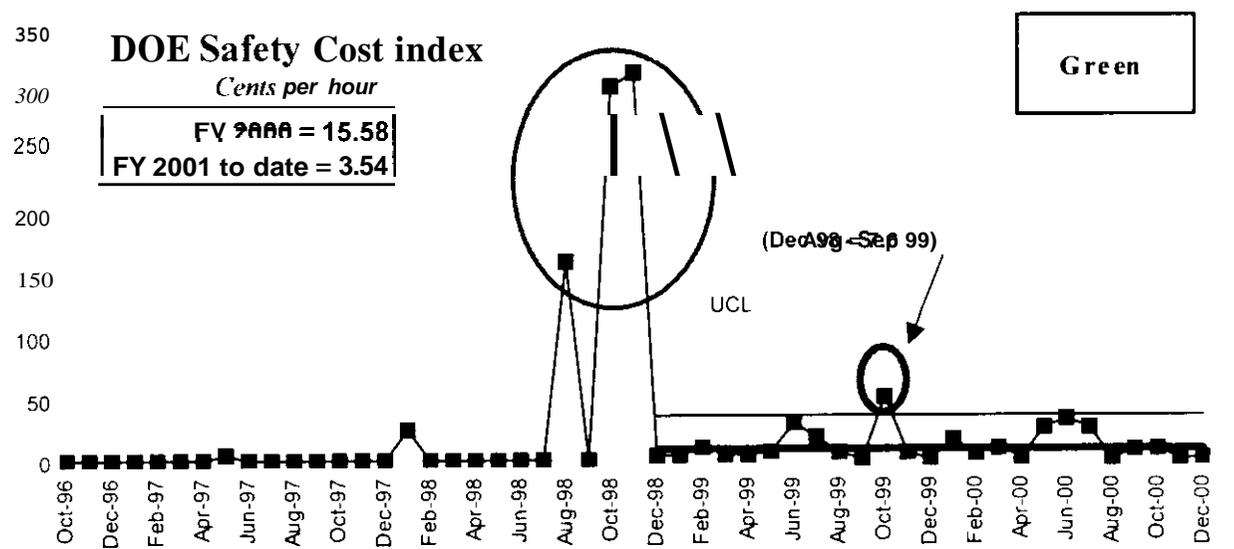
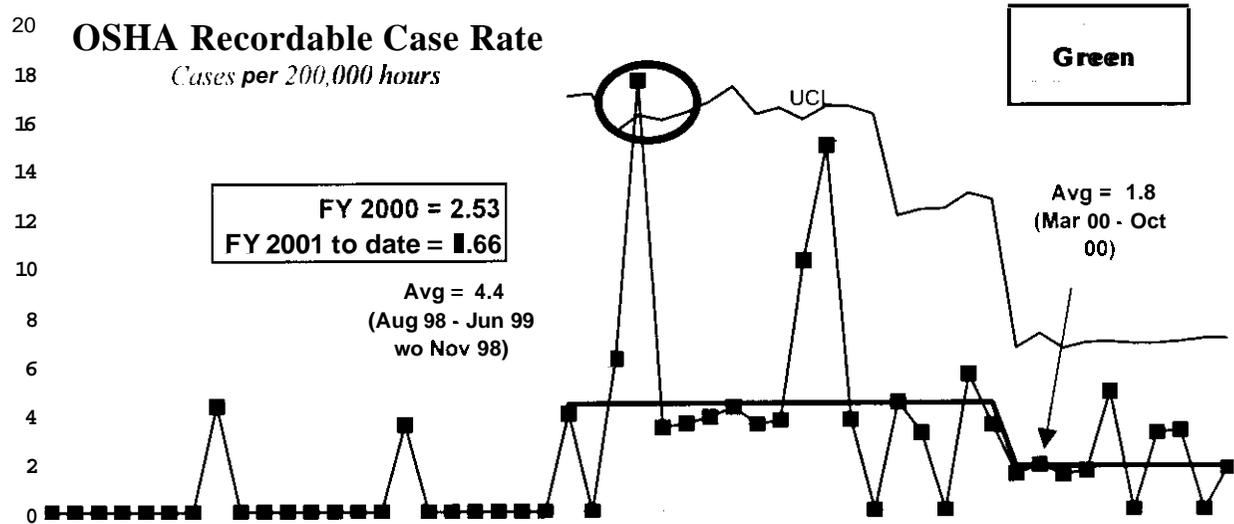
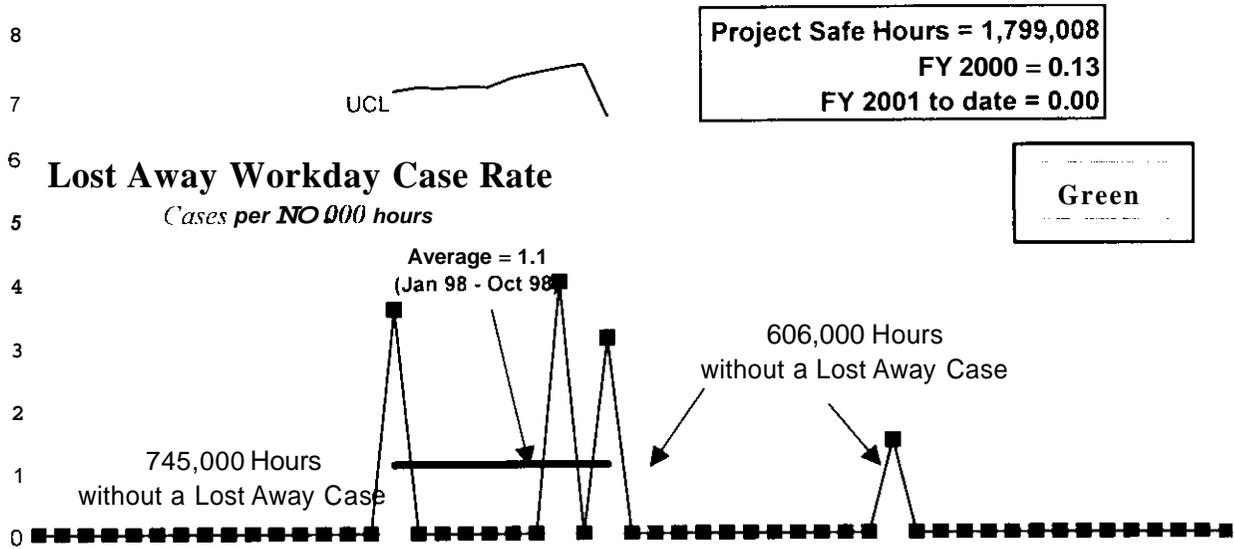
Waste analysis and processing issues on the Plutonium Finishing Plant (PFP) Residue Stabilization Project were resolved in December. Closure of these issues allowed the Waste Management Project (WMP) to receive 62 pipe overpack drums containing Rocky Flats ash during January 2001 from PFP.

On January 2, 2001, a Nuclear Chemical Operator (NCO) performed the Heimlich maneuver on an employee who had food lodged in the windpipe. It took approximately two minutes to dislodge the food. FH is pursuing a Life Saving Award for the NCO for his life-saving effort,

SAFETY

WMP is well on its way to 2 million safe hours. In December, there was one OSHA recordable case, no Restricted Workday Cases, two First Aid Cases and one report only (no symptoms) case. There have been recent significant reductions in the OSHA recordable case rate, and the Lost/Restricted Workday Case Rate. A new baseline has been established for the **OSHA** recordable graph at 1.8 cases per 200,000 hours.

Lost Away Workday Case Rate, OSHA Recordable Case Rate and DOE Safety Cost Index charts on the following page graphically illustrate the above comments.



ISMS STATUS

Green

Completed Activities:

The ISMS portion of the FEB in-brief was presented the first week in January. The FEB briefing included topical information relating to the National ISM Conference held in early December in the Tri-Cities (WA). Currently, the FEB assessment is in process.

The configuration control procedure (WMP 200, Section 1.19) was updated with the project's ISMS System Description.

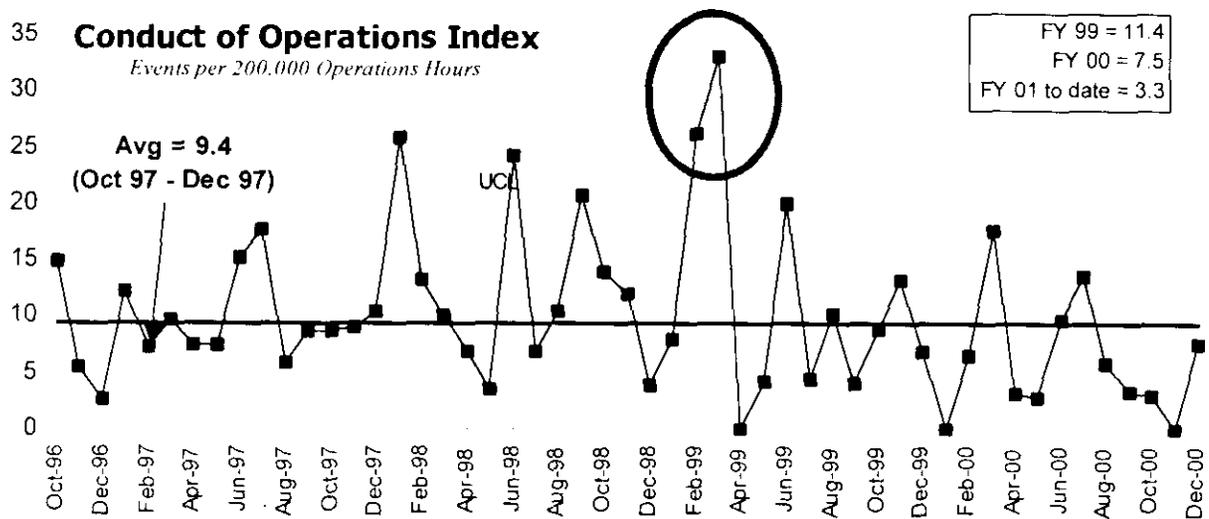
Planned Actions:

Continue to support the ISMS Center of Excellence (COE) with discussions on the methodology of reducing the number of redundant and outdated procedures. The COE has also been asked to provide recommendations on Performance Indicators for the Environment, Safety and Health (ES&H) group.

Begin the development of briefings for Technical Authorities/Technical Owners on their responsibilities under the new 1.19 procedure that provides their roles and responsibilities to the WMP System Description.

CONDUCT OF OPERATIONS

Green



BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Nothing to report at this time.

Opportunities for Improvement

Mixed Waste Focus Area — Waste Management continues to work with the Mixed Waste Focus Area (Robotics Product Line) on a technology development/demonstration activity at Hanford. The details of a demonstration/deployment of size-reduction technologies are being worked out.

WESF Basis for Interim Operations (BIO) — The Waste Encapsulation and Storage Facility (WESF) rapid loss of pool cell water accident and associated controls are being evaluated in depth, and will be documented in a revision to the WESF BIO. A reduction in the minimum staffing requirement is expected from this analysis and BIO revision.

UPCOMING ACTIVITIES

Accelerate Readiness to Receive Spent Nuclear Fuel K Basin Sludge — By September 30, 2001, complete 1) entire T Plant deck clearing, 2) complete safety basis documentation and long-lead procurements, 3) install handling, drying and loading equipment, and 4) initiate contractor readiness activities.

Transuranic (TRU) Waste Shipment: The next shipment is currently scheduled for March 29, 2001. The TRUPACT-II trainer unit is scheduled to be delivered to Hanford on February 5, 2001, to allow training of the Waste Receiving and Packaging (WRAP) millwrights for TRUPACT-II loading operations.

TRU Waste Retrieval: Place the subcontract by January 31, 2001, for technical support of the LLBG Authorization Basis (AB) revision for the retrieval of exposed TRU waste containers. Pursue additional funding to initiate retrieval of the remaining 600 exposed drums.

TRU Recertification Audit: The Hanford recertification audit has been scheduled for the week of June 11, 2001. Based on the schedule for completion of PFP actions necessary for the audit, the PFP activities are planned to be combined with the Hanford recertification audit.

Liquid Waste Processing: Pending favorable resolution of the Toxic Substance Control Act/ Polychlorinated Biphenyls (PCBs) issue associated with double-shell tank waste and the operation of the 242-A Evaporator/Liquid Effluent Facilities, Evaporator Campaign 01-01 will be conducted in March. Plans are to shut down the 200 Area ETF in mid-February, with a restart groundwater processing in early April following the Evaporator Campaign.

Land Disposal Restriction (LDR) Report: The LDR report will be prepared and issued by April 30, 2001, to meet Tri-Party Agreement milestone M-26-01, "Annual Hanford Land Disposal Restrictions Report." Given the length of time that was required to close the dispute and agree upon the scope of this year's Report, completion of the document by the milestone date will be difficult. Negotiations are underway which may result in a change request to slip the milestone due date to June 30, 2001. [See also Regulatory Issues]

Nuclear Material Stabilization Support: Routine shipments have been scheduled for the transfer of approximately 26 residues drums per week to the Central Waste Complex (CWC).

MILESTONE ACHIEVEMENT

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	2	0	2
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	0	0	0
Total Project	0	0	0	0	0	2	0	2

M-91-12 is in dispute between DOE-RL and Ecology and has been temporarily removed from the milestone reporting baseline numbers.

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones as of January 26, 2001

Number	Milestone Title	Status	
M-91-11-T01 (A2G-01-103)	Submit Low Level Mixed Waste (LLWM) Facility ES/FDC to Ecology	Due 12/31/00 – Change request Approved to delete this milestone. The milestone will be removed next report.	Green
M-91-12 (A2G-01-104)	Initiate Thermal Treatment of CH-LLMW	Due 12/31/00 – Ecology has been notified that DOE-RL has invoked the Dispute Provision of the Tri-Party Agreement relative to completion of this milestone. WMP is supporting RL preparation of the dispute response.	Yellow
M-91-13 (A1C-01-001)	Initiate Disposal of CH-LLWM	Due 06/30/01 – Completed 9/15/1999	Green
M-91-18 (WMP-01-001)	Transmit T-Plant Sludge Storage Conceptual Design to Ecology	Due 06/29/01 – On Schedule	Green
M-26-05H (WMH-00-006:	Prep Biennial Tritium Treatment Technology Evaluation report	Due 08/31/01 – On Schedule	Green

DNFSB Commitments

	Nothing to report at this time.	
--	---------------------------------	--

MILESTONE EXCEPTION REPORT

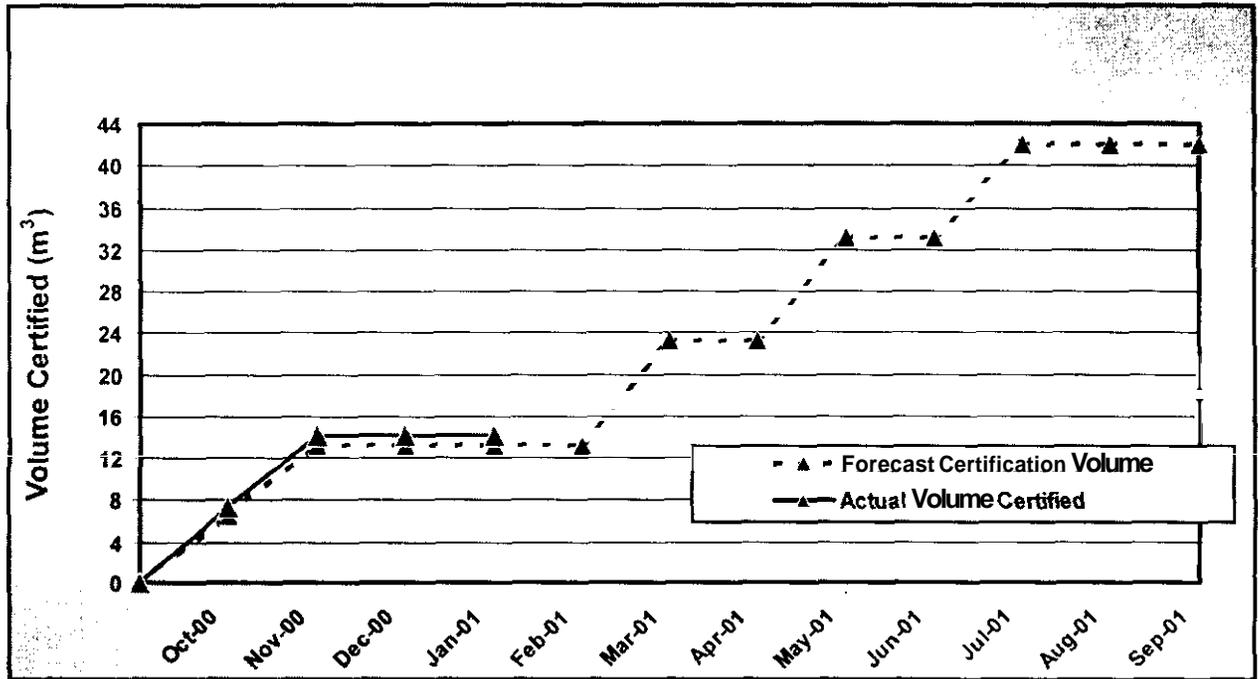
<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
Overdue - 0				
Forecast Late - 0				
FY 2000 Overdue - 0				
TPA-M-91-03 1.4.2	RL	Submit Hanford Site TRU/TRUM PM Waste Management Project	06/30/00	06/30/00

Number	Milestone Title	status
	Nothing to report at this time.	
DNFSB Commitments		
	Nothing to report at this time.	

PERFORMANCE OBJECTIVES

TRU Waste Certified

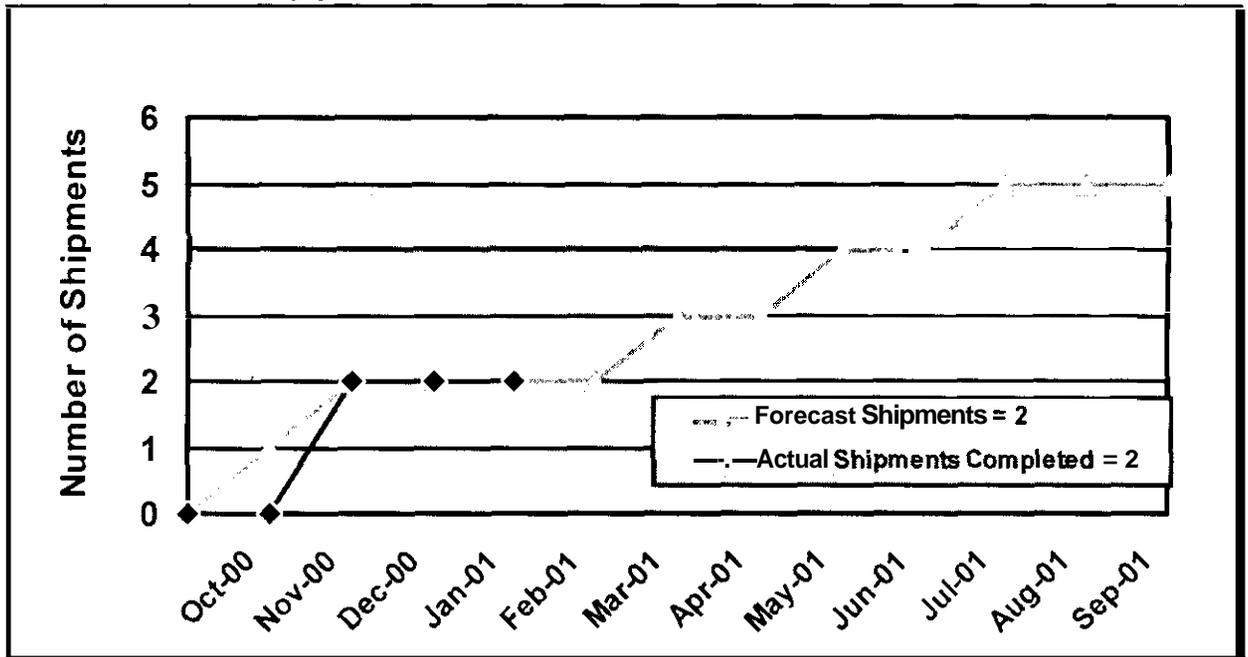
Green



Ahead of schedule. Through January 2001, 14.2 m³ TRU waste certified.

Green

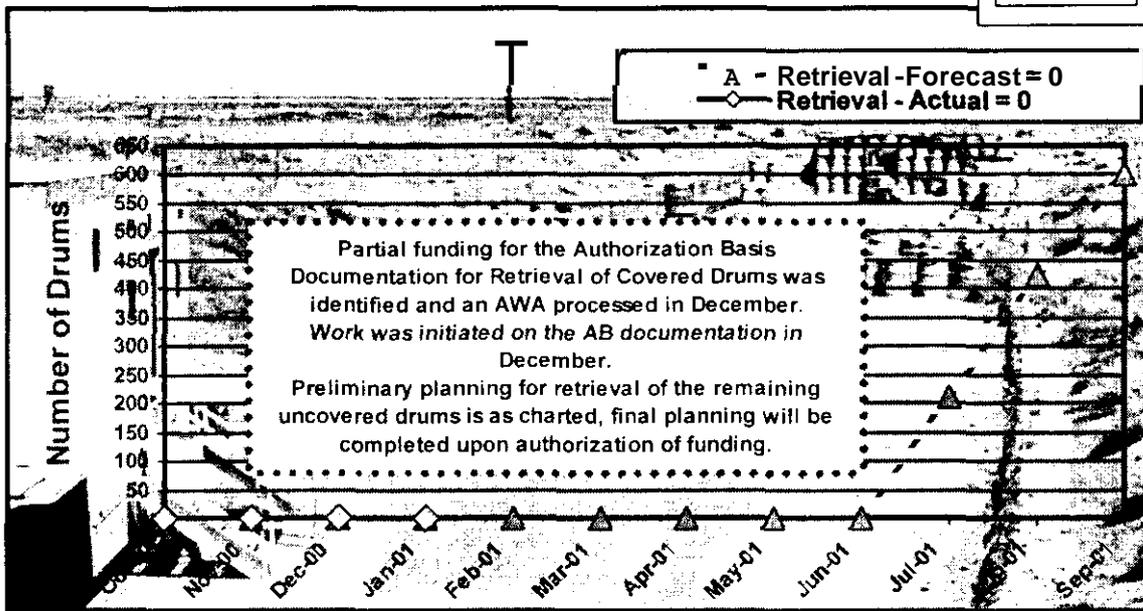
TRU Waste Shipped



On Schedule,

Retrieve TRU Waste

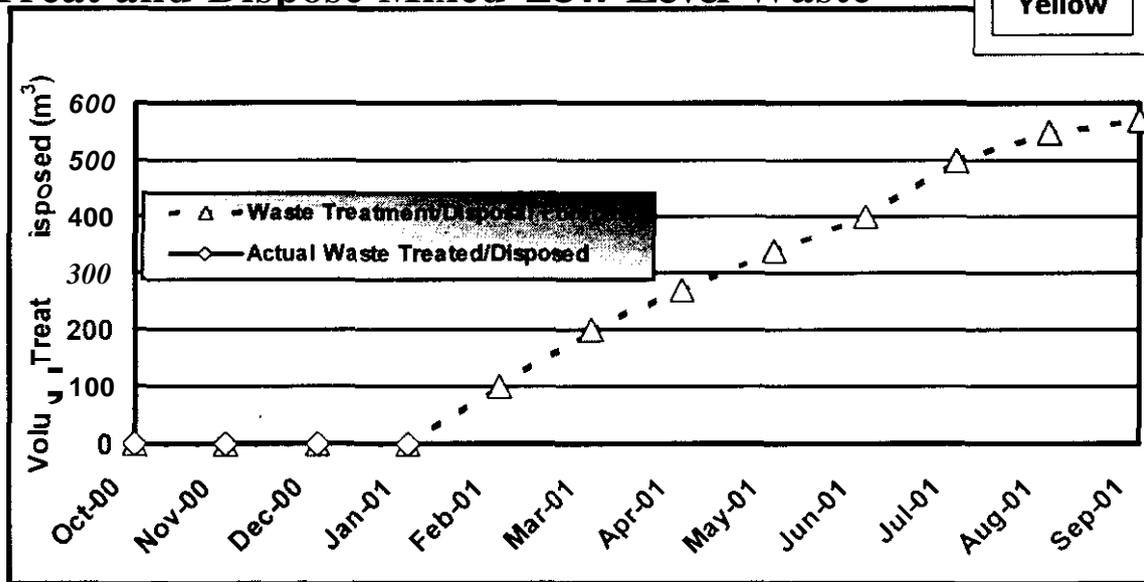
Yellow



Partial funding has been identified, allowing the initiation of safety basis modifications to accomplish retrieval of buried drums. Additional funding (\$100K) is required by March 1, 2001, to avoid day-for-day delays in this critical activity. Funding (\$800K) is also required immediately to initiate retrieval of the remaining 600 (approximate) exposed drums by September 30, 2001. Limited availability of WMP staff (NCO's, RCT's, Waste Acceptance, and technical support) is also adversely impacting preparatory activities to this year's drum retrieval campaign.

Treat and Dispose Mixed Low Level Waste

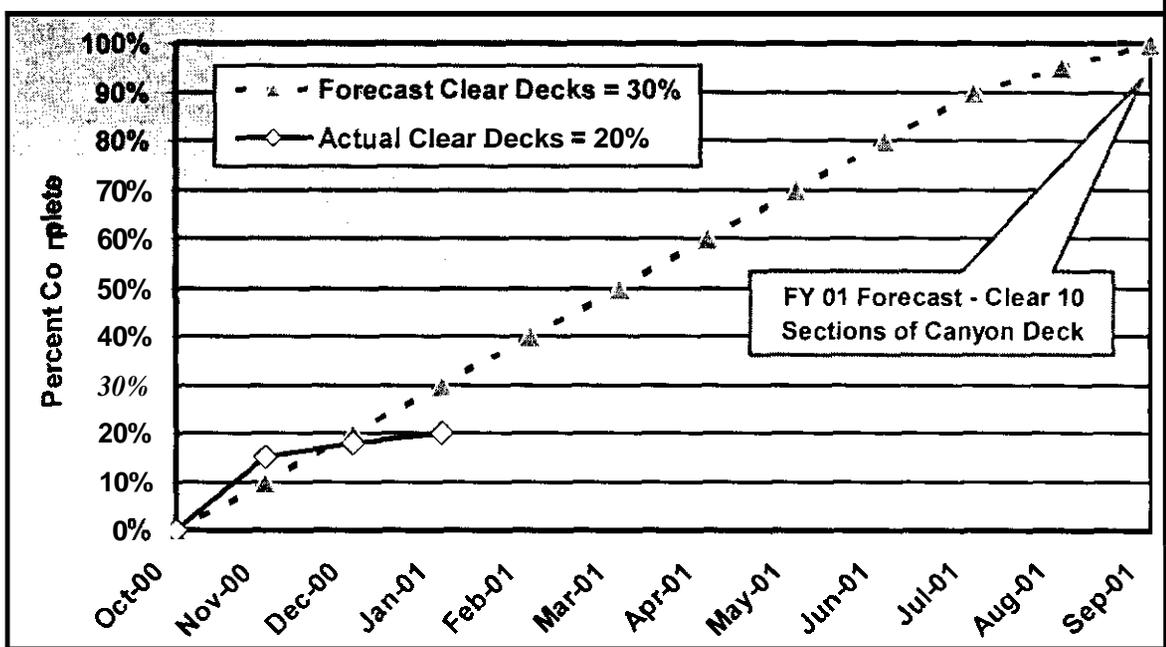
Yellow



TG initiated thermal treatment ("shake-dry testing") of MLLW on December 3, 2000. ATG is continuing to experience technical difficulties that will delay the initiation of production thermal treatment until March 2001. FH has shipped 250 m³ of MLLW to ATG for non-thermal treatment; ATG has treated approximately 80 percent of the waste, but has been delayed in preparing waste profiles for waste return to the site for disposal due to resource limitations. Initial returns are expected in February 2001.

T Plant Deck Clearing

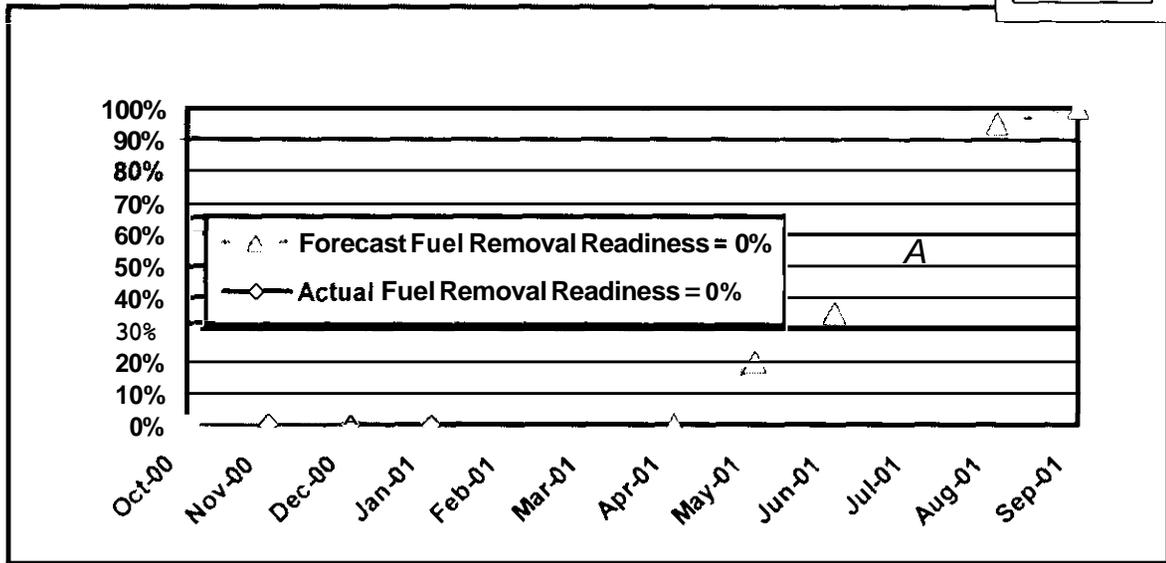
Yellow



Behind schedule due to lack of RCT's, startup problems with plasma arc size reduction process, and additional crane maintenance required as a result of last year's inspection. RCTs on board as of January 25, 2001, but 60-days additional training required to establish full proficiency. Recovery expected by mid-April.

Fuel Removal Readiness

Yellow



Two weeks behind May 7, 2001 schedule for management self-assessment (preparatory to Contractor Readiness Assessment) due to lack of RCT's and additional crane maintenance required as a result of last year's inspection. Moving to strengthen Readiness approval with recent lessons learned from PFP and SNF.

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

Green

		FYTD												
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC				
PBS WM03	Solid Waste Storage & Disposal	5	5,843	\$ 5,641	\$ 5,287	5	(202)	-3%	\$ 354	6%	5	25,439	\$ 25,439	
WBS 1.2.1														
PBS WM04	Solid Waste Treatment	5	7,468	\$ 7,718	\$ 7,545	5	249	3%	\$ 173	2%	5	36,168	\$ 36,168	
WBS 1.2.2														
PBS WM05*	Liquid Effluents - 200/300 Area		\$ 6,228	\$ 6,201	\$ 5,374	5	(27)	0%	5	826	13%	5	27,231	\$ 27,231
WBS 1.2.3														
PBS TP02	WESF		\$ 2,514	5	2488	5	2449	\$ (26)	1%	\$ 39	2%	\$ 10,128	\$ 10,728	
WBS 1.4.2														
Total			\$ 22053	\$ 22047	\$ 20655	\$ (6)	0%	5	1392	6%	5	99,566	5 99,566	

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM)

FY TO DATE SCHEDULE / COST PERFORMANCE

Cost and schedule variances for the Waste Management Project are within established thresholds.

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

Schedule Variance Analysis: (-\$0.0M)

Solid Waste Storage & Disposal – 1.2.1/ WM03

Description /Cause: The unfavorable schedule variance of \$0.2M (4 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Solid Waste Treatment – 1.2.2/ WM04

Description /Cause: The favorable schedule variance of \$0.2M (2 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Liquid Effluents – 1.2.3.1/ WM05

Description /Cause: The unfavorable schedule variance of \$0.03M (0.4 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

WESF – 1.4.2/ TP02

Description /Cause: The unfavorable schedule variance of \$0.03M (1 percent) was within the established threshold.

Impact: No Impact.

Corrective Action: No corrective action required.

Cost Variance Analysis: (+\$1.4M)

Solid Waste Storage & Disposal — 1.2.1/WM03

Description/Cause: The favorable cost variance of \$0.4M (6 percent) was within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

Solid Waste Treatment — 1.2.2/WM04

Description/Cause: The favorable cost variance of \$0.2M (2 percent) was within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

Liquid Effluents — 1.2.3.1/WM05

Description/Cause: The favorable cost variance of \$0.8M (13 percent) was primarily due to staff vacancies, staff on leave and delays in issuing contracts.

Impact: No impact.

Corrective Action: The labor underruns will be used for the RIIT Team reductions. Contract costs will start coming in January.

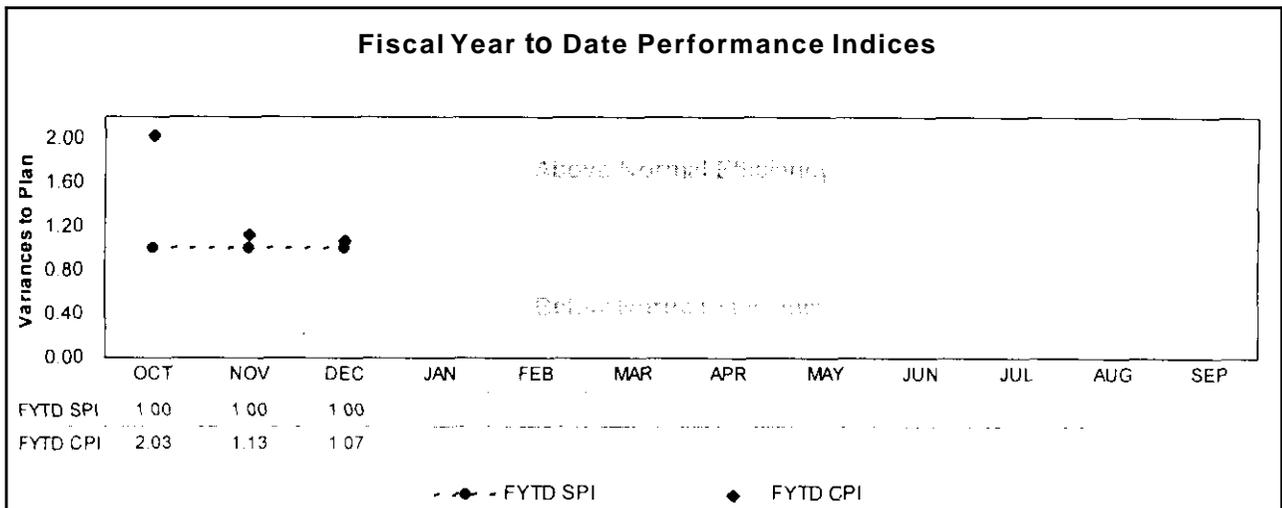
WESF — 1.4.2/TP02

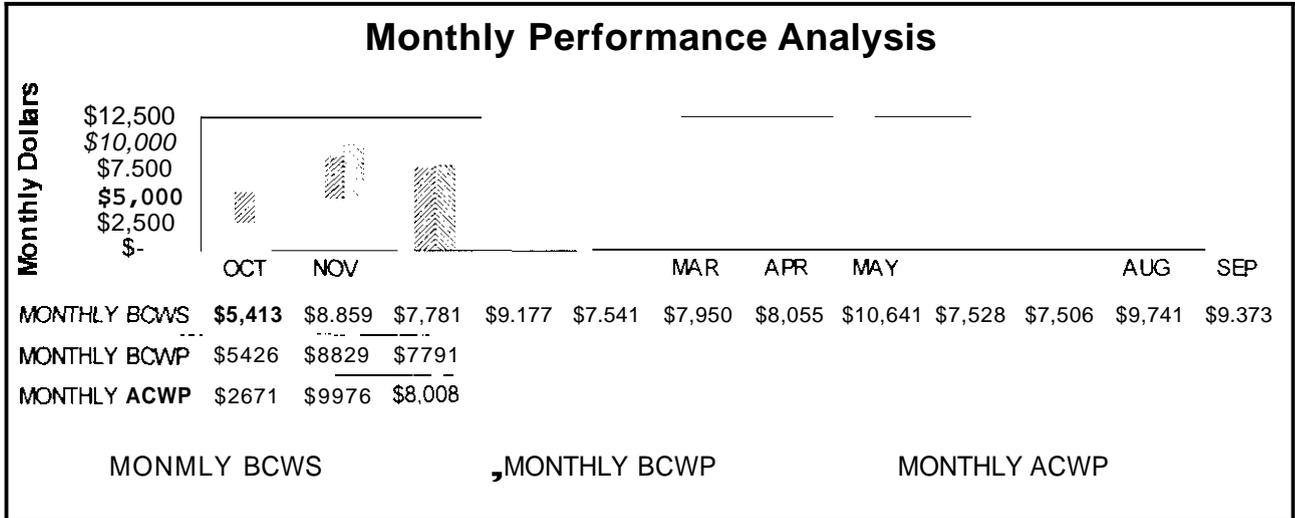
Description/Cause: The favorable cost variance of \$0.04M (2 percent) was within the established threshold.

Impact: No impact.

Corrective Action: No corrective action required.

COST/SCHEDULE PERFORMANCE (MONTHLY AND FYTD)





FUNDS MANAGEMENT — FY 2001 TO DATE

FUNDS VS SPENDING FORECAST (\$'000)



	Project Completion *			Post 2006 *			Line Items *		
	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance	Funds	Actual Cost	Variance
The Plateau									
1.2 Waste Management									
TP02 WM03-05				\$ 97,294	\$ 96,939	\$ 355			
Line Item									
Total Waste Mgt. Operating				\$ 97,294	\$ 96,939	\$ 355			
Total Waste Mgt. Line Item									

• Control Point

Above chart reflects FH Project structure which divides certain PBS's between projects (e.g., WM05 – Waste Management and the River Corridor project). Consequently, these figures will differ from those shown elsewhere in this report (as generated in the PEM system).

ISSUES

Technical Issues

Issue: Nothing to report at this time.

Impacts: None.

Corrective Action: None at this time.

Regulatory Issues

Issue: Report for Hanford Land Disposal Restrictions (LDR) for Mixed Wastes — *[Background: Mediation efforts on LDR issues have ended with resolution of all issues imminent. The parties are negotiating a final agreement that will settle the dispute. The court case was therefore canceled. Preparation of the 2001 LDR report, in accordance with the proposed settlement, is currently underway.]*
The 2001 LDR report is due to the regulators by April 30, 2001, in accordance with Tri-Party Agreement milestone M-26-01, "Annual Hanford Land Disposal Restrictions Report."

Impacts: The mediation/negotiation process caused a late start on preparing the LDR, and Report content is still being defined. It may not be possible to meet the due date while including all required report content.

Corrective Action: A change request to delay the April milestone date by 60 days has been verbally approved at the Ecology working level, but RL has not yet submitted the formal request.

Issue: Tri-Party Agreement Milestone M-91-12 Dispute - Ecology has been notified that RL has invoked the Dispute Provision of the Tri-Party Agreement relative to completion of this milestone.

Impacts: This delays when this milestone will be determined to be complete.

Corrective Actions: WMP is supporting DOE-RL preparation of the dispute response.

Issue: TPA Milestone M-91-03 "Submit Hanford Site **TRU/TRUM** Waste Project Management Plan (PMP) to Ecology" - The dispute over the adequacy of the M-91-03 "Project Management Plan for Transuranic and Transuranic Mixed Waste" continues.

Impacts: Ecology has not approved completion of M-91-03.

Corrective Actions: Discussions with Ecology on a proposed path forward for resolution of the dispute, via modifications to the Waste Management Strategic Plan, has been successful. Agreement on the scope of the required modifications has been reached, and a draft modification is being prepared. Ecology has agreed to an extension to April 23, 2001 for continuation of dispute, to allow sufficient time for preparation and approval of the Strategic Plan modification.

Issue: Burial Ground Draft Part A - Cases of improper disposal of mixed waste in the LLBG have occurred after the effective date of RCRA on the Hanford Site (August 19, 1987). Ecology believes other cases of improper disposal of mixed waste have also occurred.

Impacts: Negotiations have been ongoing with Ecology on the approach for dealing with these issues.

Corrective Actions: Notice of Deficiency (NOD) responses are currently being prepared.

Issue: 242A Evaporator Campaign - Issues with PCBs may impact the current plans to initiate the FY 2001 campaign in March 2001.

Impacts: A potential to delay the planned evaporator campaign will change current baseline operations plans at the 200 Area Liquid Effluent Facility. There may be additional impacts in the River Protection Project.

Corrective Actions: Negotiations with the Environmental Protection Agency are continuing.

External / DOE Issues and DOE Requests

Issue: Nothing to report.

Impacts: None at this time.

Corrective Action: None at this time.

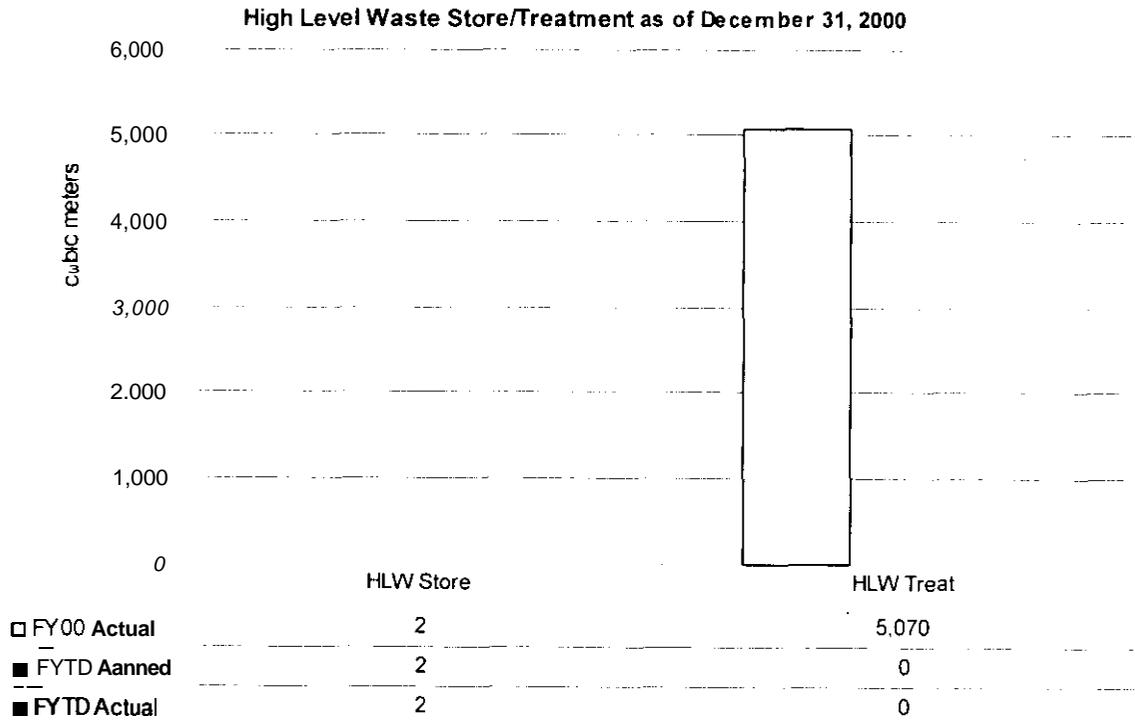
BASELINE CHANCE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	FY00 COST IMPACT \$000	S C H	T E C H	DATE TC CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
WM-2000-015	7/26/00	WMP FY 2001 MYWP Revision	\$0			8/31/00	9/25/00	12/27/00	In baseline
FH-2001-001	9/12/00	Base Ops Reduction for	(\$5.036)		X			12/28/00	In baseline
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	(\$740)					12/28/00	In baseline
FH-2001-003	9/25/00	FY2001 Addition of High Priority Workscope	\$5.639		X			12/28/00	In baseline
WM-2000-001	10/12/00	FY01 Base Ops reductions	(\$863)			12/19/00	11/03/00	NA	In January baseline
WM-2000-002	11/6/00	FY00 Carryover	\$3,471	X	X	11/10/01	11/10/01	TBD	At RL
FSP-2001-017	12/7/00	FY00 WESF Carryover	\$780	X		12/19/00	1/10/01	NA	In January baseline
ADVANCE WORK AUTHORIZATIONS									

KEY INTEGRATION ACTIVITIES

- Preparing T Plant to receive Spent Nuclear Fuel K Basin sludge
- Continue support of UP-1 Groundwater treatment
- Continue support to River Corridor Project for removal of waste from 324 and 327 buildings
- Continue to work with Pacific Northwest National Laboratory, EM 50, National Energy Technology Laboratory, and the Mixed Waste Focus Area to implement the size-reduction technology demonstration/deployment at T Plant
- Continue support to Nuclear Materials Stabilization for removal of waste from the PFP
- The Solid Waste Integrated Forecast is updated twice a year. Data is currently being collected from both on-site and off-site generators for the FY 2001.1 forecast update. The data is used to project waste shipments, waste receipt, and waste treatment and disposal needs

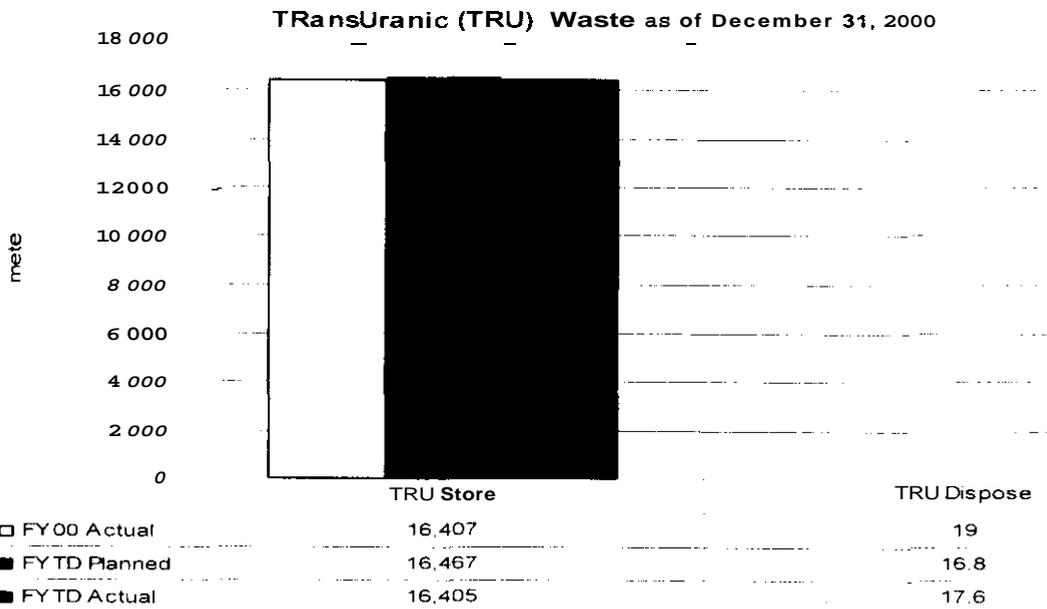
HIGH LEVEL WASTE (HLW): STORAGE AND TREATMENT



Storage: Storage continues to be provided For HLW Cesium 137 and Strontium 90 capsules in the Waste Encapsulation and Storage Facility (WESF) Pool Cells.

Treatment: No HLW treatment was planned for the 1st quarter of FY 2001.

TRANSURANIC (TRU) WASTE: STORAGE, TREATMENT AND DISPOSAL

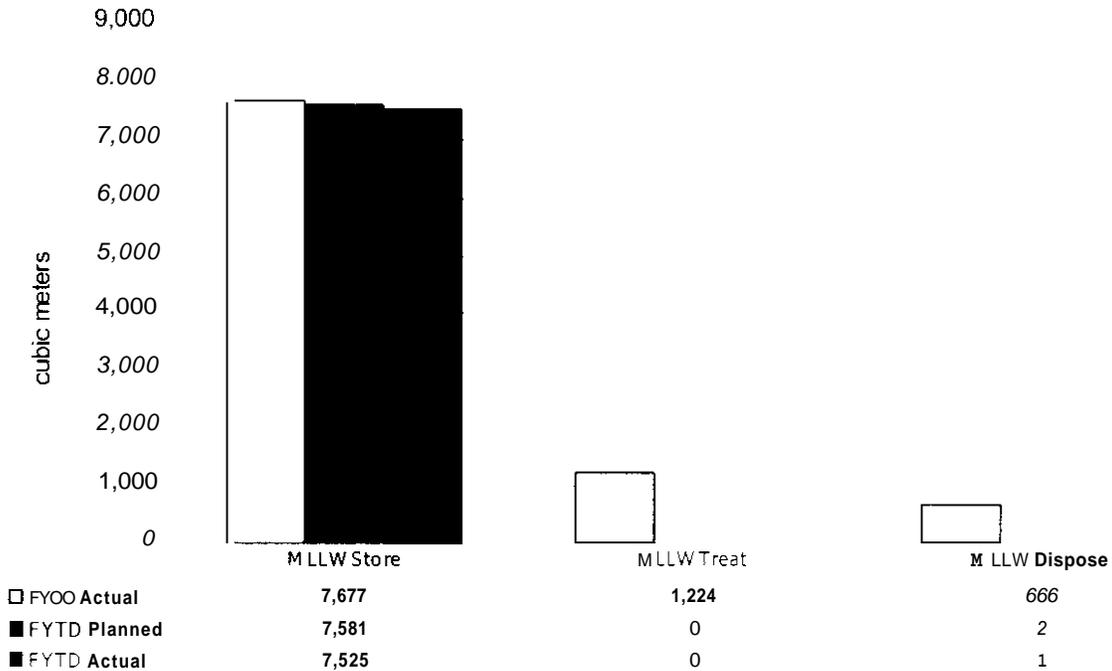


Storage: Storage continues to be provided for existing and newly generated TRU waste. Currently 16,405 cubic meters.

Disposal: Two shipments of TRU were shipped to Waste Isolation Pilot Plant (WIPP) this quarter for disposal. Additional shipments are planned beginning March 31, 2001.

MIXED LOW LEVEL WASTE: STORAGE, TREATMENT, AND DISPOSAL

Mixed Low Level Waste as of December 31,2000

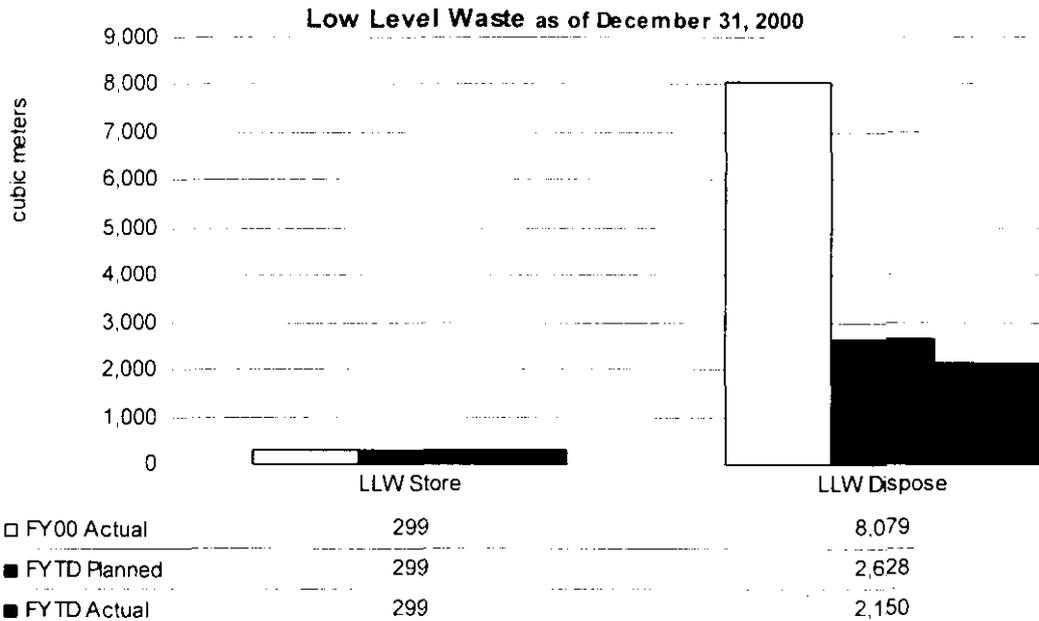


Storage: Storage continues to be provided for existing and newly generated MLLW. The current volume of MLLW in storage is within 10 percent of the planned amount.

Treatment: No MLLW was certified treated from Allied Technology Group (ATG) this quarter as planned.

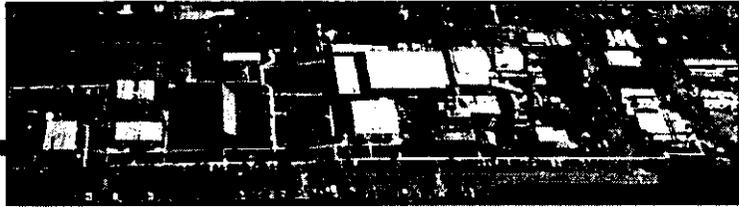
Disposal: One meter of MLLW was disposed in the mixed disposal trench. Another meter was planned for disposal of AW-104 pump in a macro-encapsulated box, but the River Protection Project has delayed the shipment to the 2nd quarter.

LOW LEVEL WASTE (LLW): STORAGE, TREATMENT, AND DISPOSAL



Storage: Storage continues to be provided for LLW that does not meet waste acceptance criteria for disposal in the burial grounds.

Disposal: The LLW received from onsite and offsite generators was disposed in the burial ground. Disposal amounts are lower than planned because shipments of Category 3 low level waste were not received as planned from Battelle Columbus and Bettis Atomic Power.



Section B:2

Analytical Services (222-S, HASP, WSCF)

PROJECT MANAGERS

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

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

SUMMARY

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

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of December 31, 2000. Other data is updated as noted.

NOTABLE ACCOMPLISHMENTS

Processed a total of 0.75 Analytical Equivalency Unit (AEU) at the 222-S Laboratory in December in support of the River Protection Project (RPP) (TWRS) tank characterization program. Production through December was 2.58 AEUs versus a planned 2.65 AEUs. Production through January 4, 2001 is 2.7 AEUs.

Performed 4,055 analyses through December 2000 at WSCF for a wide variety of customers. Production through January 17, 2001 was 4,635 analyses.

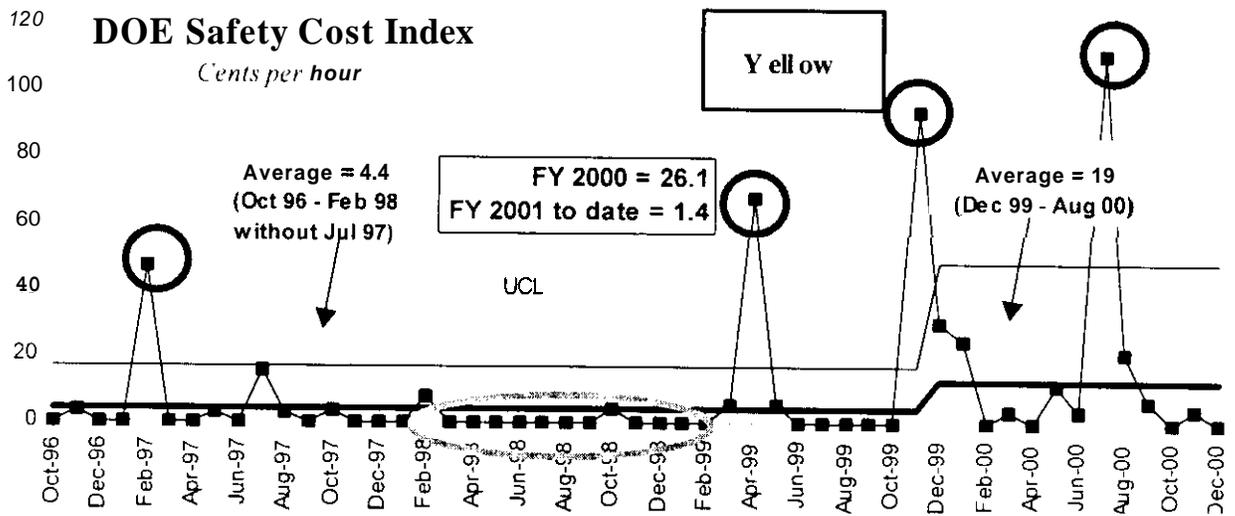
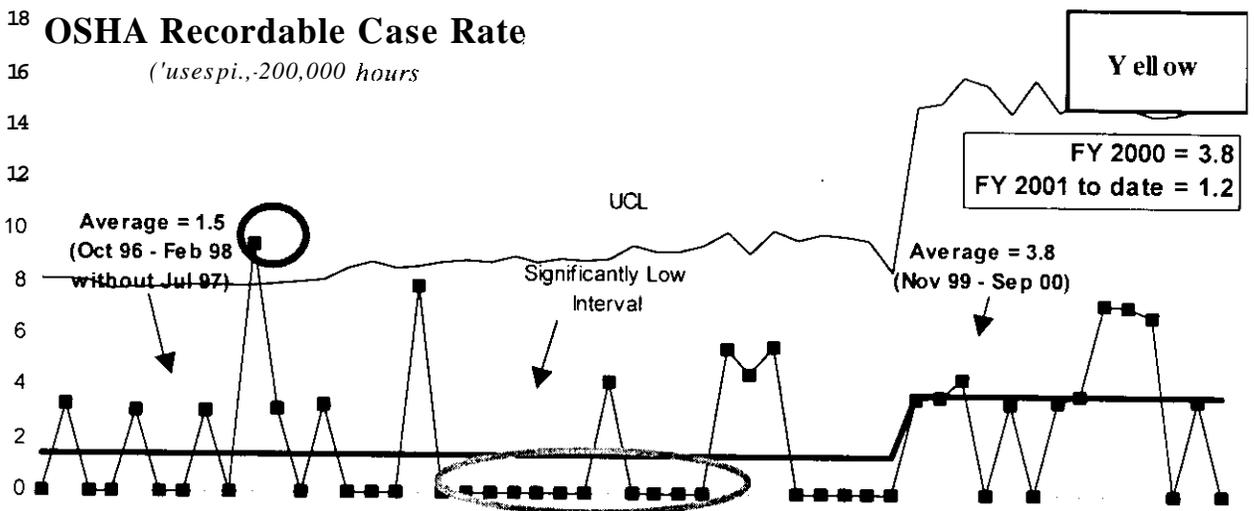
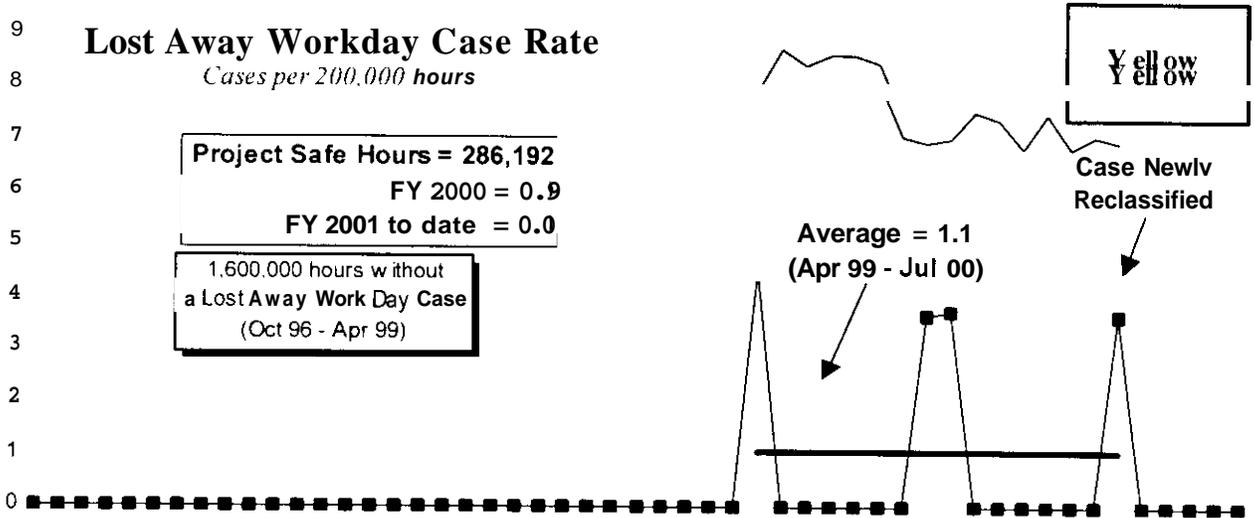
Analytical Excellence Inc is on site to begin the planning for the WSCF comparability study. The study will compare operating practices at WSCF and at commercial analytical laboratories. The contract was finalized January 12, 2001.

Analytical Services performance was recognized by RL. The Fluor Hanford Analytical Services Program (HASP) was presented a certificate of appreciation for "diligence and innovation in customer services to enable Hanford outcomes in FY2000, including excellent support to WTP planning, service agreements, 10 year capitalization plan, and delivery of a cost model." Dr. Mark Marcus and Mr. Karl Pool were also recognized for "teamwork and partnering with the sample management offices in the other Hanford contractors, ... displaying leadership, dedication, and innovation, enabling sampling and analysis for Hanford outcomes to be performed with improved efficiency and surety." Support to auditing, contracting and the National Analytical Management Program was also recognized.

WSCF performance was also recognized by RL. A plaque was presented to Mr. Lenny Perkins and Mr. Don Hardy, stating "WSCF personnel displayed dedication and persistence to enable key Hanford objectives, including the first shipments of waste to WIPP and continued operation of liquid effluent facilities, while completing move of vapor analysis for increased efficiency."

SAFETY

In December, there were no OSHA recordable cases, no Restricted Workday Case, and four First Aid Cases. An OSHA Restricted Duty injury case that occurred on July 28, 2000 at the 222-S Laboratory was reclassified to Lost Time Away from work. The employee underwent knee surgery on December 6, 2000 and did not return to work the following day. This reclassification broke the 11 million safe hour record of Fluor Hanford. Analytical Services Safety rating is yellow, due to continued Lost Away workday cases and a high OSHA recordable case rate.

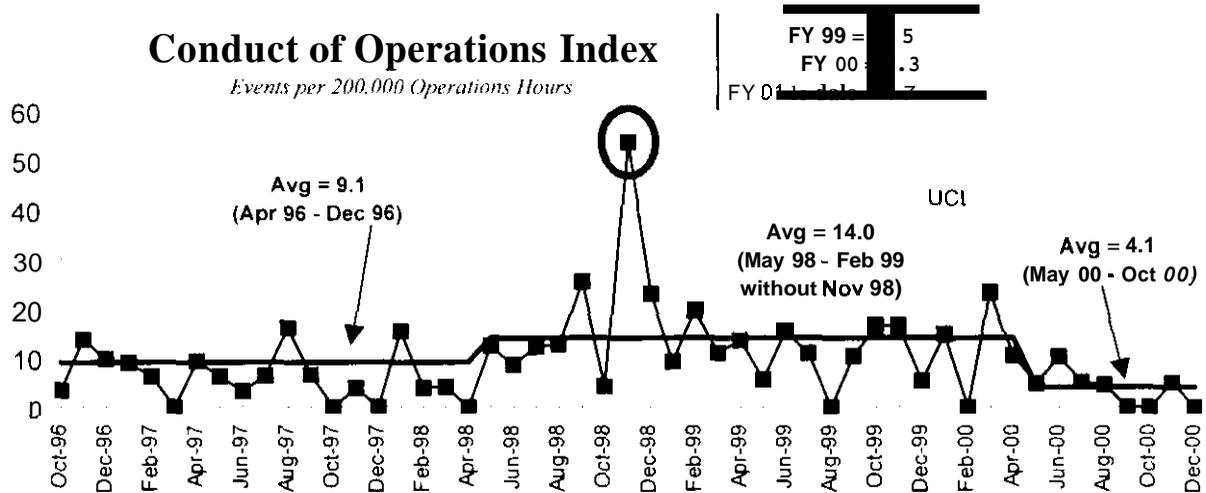


ISI STATUS

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

CONDUCT OF OPERATIONS

Green



BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

WIPP Waste Shipments — Continue to support the production goal of headspace analysis in support of waste shipments to Waste Isolation Pilot Plant (WIPP). Continued discussions with Idaho National Engineering and Environmental Laboratory (INEEL) (located at Idaho Falls, ID) regarding possible support to the INEEL WIPP program.

ORP Waste Treatment Plant (WTP) — Support DOE-RL and Office of River Protection (ORP) efforts to evaluate options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.).

222-5 RCRA Part B Application — Continue to support development of Modification F (which includes 222-S Part B application) of the Hanford Facility (HF) Resource Conservation and Recovery Act of 1976 (RCRA) Permit review. Modification F will be issued after issuance of Modification E [which includes Waste Receiving and Processing (WRAP) and Central Waste Complex (CWC)].

PCB Management — Continue to work with RL and ORP on polychlorinated biphenyl (PCB) management and regulatory issues.

MILESTONE ACHIEVEMENT

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	1	0	1

Tri-Patty Agreement / EA Milestones

Nothing to report at this time.

DNFSB Commitments

Nothing to report at this time.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u> <u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
Overdue - 0			
Forecast Late - 0			

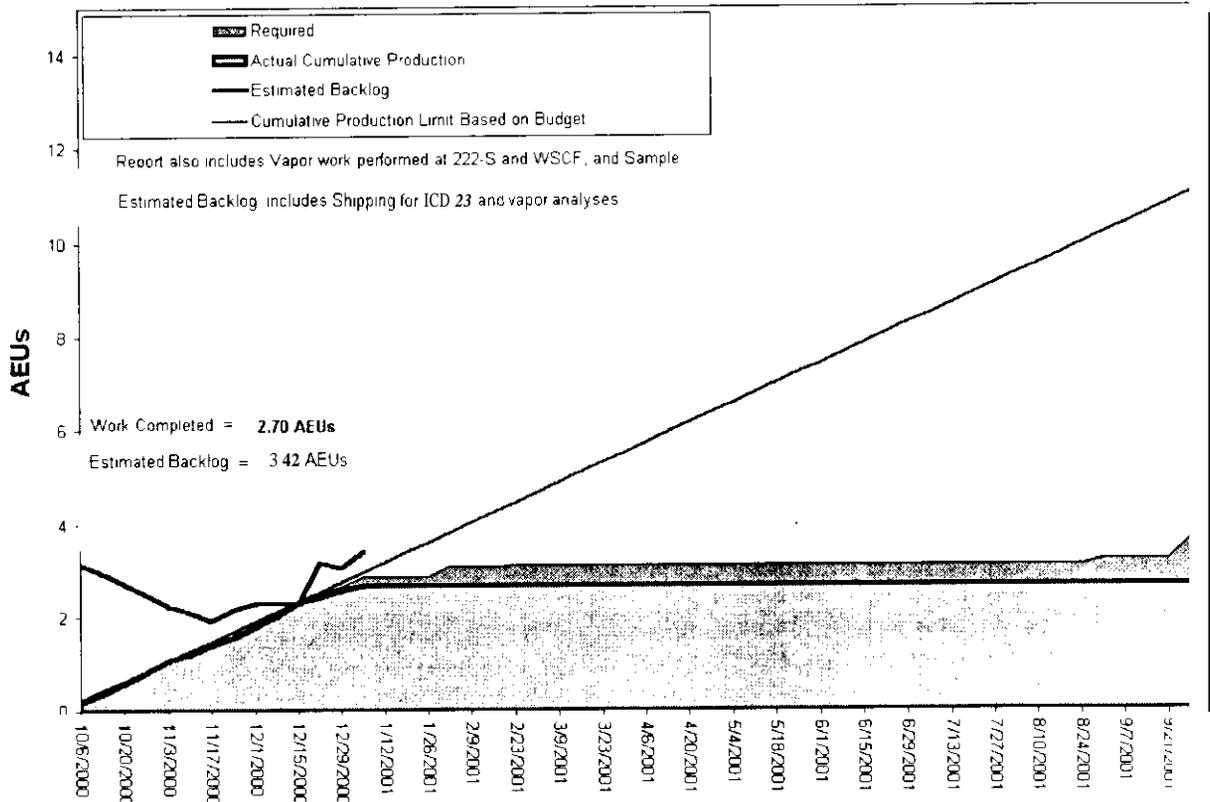
PERFORMANCE OBJECTIVES

Green

Laboratory Production

Budgeted Capacity vs. Actual Production - TW01

January 04, 2001



Processed a total of 0.75 AEUs at the 222-S Laboratory in December in support of the RPP (TWRS) tank characterization program. Production through December is 2.58 AEUs versus a planned 2.65 AEUs. Production through January 4, 2001 is 2.7 AEUs.

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

Green

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
WBS 1.2.4	Analytical										
PBS WM06	Services	\$ 7,722	\$ 7,133	\$ 6,603	\$ (589)	-8%	\$ 530	7%	\$ 31,442	\$ 31,803	
Total		\$ 7,722	\$ 7,133	\$ 6,603	\$ (589)	-8%	\$ 530	7%	\$ 31,442	\$ 31,803	

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

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.6 million (8 percent) unfavorable schedule variance is due to the 222-S HEPA filters and the inductively coupled mass spectrometer (ICP-MS) installation delays. Facility shutdown will be necessary *for* the 222-S HEPA filter installation. Due to higher plant priorities, the shutdown will be scheduled for the April-May timeframe. The prolonged procurement process for the ICP-MS will delay installation until the latter half of the fiscal year. The procurement process for the ICP-MS is ongoing.

The \$0.5 million (7 percent) favorable cost variance is due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

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

Schedule Variance Analysis: (-\$0.6M)

Analytical Services — 1.2.4/WM06

Description /Cause: The \$0.6 million (8 percent) unfavorable schedule variance was due to the 222-S HEPA filters and the inductively coupled mass spectrometer (ICP-MS) installation delays.

Impact: None.

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

Cost Variance Analysis: (+\$0.5M)

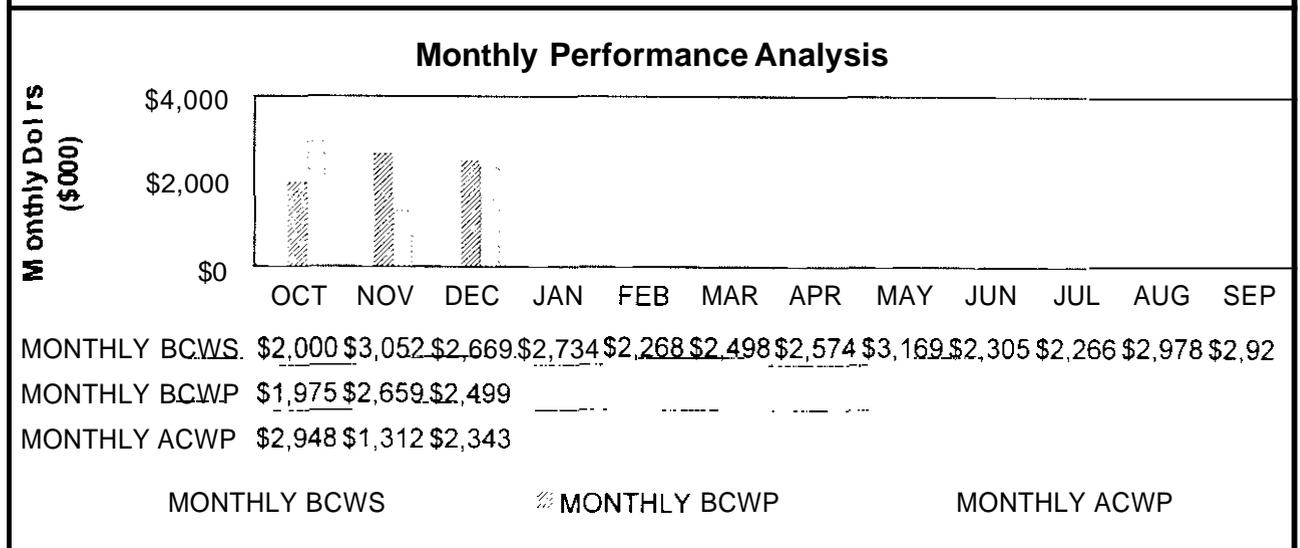
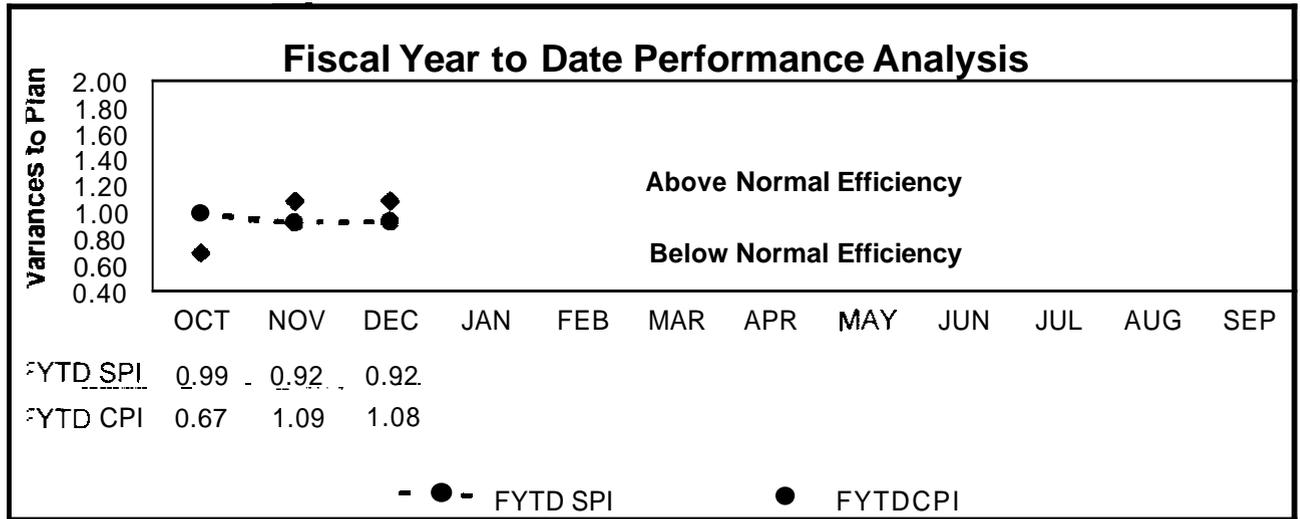
Analytical Services — 1.2.4/WM06

Description/Cause: The \$0.5 million (7 percent) favorable cost variance was due to costing delays, lagging contract costs, delays in billings *of* assessments and staff vacancies.

Impact: None.

Corrective Action: None required.

**ENVIRONMENTAL PERFORMANCE
 (FISCAL YEAR TO DATE)**



**FUNDS MANAGEMENT — FY 2001 TO BATE
 FUNDS VS SPENDING FORECAST (\$000)**

Green

	Project completion *			Past 2006 *			Line Items *	
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	Variance
124 Analytical Svcs (222-S,HASP,WSCF)				\$ 30,778	\$ 31,636	\$ (858)		
Line Item								
Total Analytical Serv. Operating				\$ 30,778	\$ 31,636	\$ (858)		
Total Analytical Serv. Line Item								

* Control Point

ISSUES

Technical Issues

Nothing to report at this time.

DOE/Regulator/External Issues

Polychlorinated Biphenyls (PCBs) Management — The DOE Office of River Protection authorized CH2M Hill Group (CHG) to receive two shipments of tank waste from the Fluor Hanford operated 222-S Laboratory. This waste may contain suspect polychlorinated biphenyl (PCBs) originating from suspect PCB contaminated tank 241-SY-102. ORP issued the authorization to allow deviation from the tank farm waste acceptance criteria for the 2 shipments from the 222-S Laboratory, This enables the laboratory to receive samples from the tank and begin analyses and to manage the wastes without major costs or interference to other on-site work.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	COST IMPACT \$000	S	E	T	DATE TO CCB	CCB APR'VD	REL APR'VD	CURRENT STATUS
FH-2001-001	9/12/2000	Base Ops Reduction for PHMC Projects	-\$610			X		09/13/00		Approved and implemented in Dec 2000
FH-2001-002	9/25/2000	FY2001 Fee Reduction to 90%	-\$190					09/13/00		Approved and implemented in Dec 2000
WM-2001-004	12/18/2000	AS FY 2001 \$211K Base Operations Reduction	-\$211				01/24/01			
WM-2001-005	12/18/2000	AS FY 2001 Carryover Workscope	\$681				01/24/01			
ADVANCE WORK AUTHORIZATIONS										
		Nothing to report at this time.								

KEY INTEGRATION ACTIVITIES

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



Section C:I

Nuclear Material Stabilization

PROJECT MANAGERS

P.M. Knollmeyer, RL
(509) 376-7435

G.W. Jackson, FH
(509) 373-6622

SUMMARY

The Nuclear Material Stabilization (NMS) 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 December 31, 2000. All other information is as of January 23, 2001 unless otherwise stated.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that one milestone (100 percent) was completed ahead of schedule. Although eight additional milestones are scheduled for completion later this fiscal year, no milestones were scheduled for completion during this report period. Further details can be found in the milestone exception report following the cost and schedule variance analysis.

NOTABLE ACCOMPLISHMENTS

Maintain Safe & Secure SNM

- Completed and reconciled the bimonthly SNM inventory on January 12, 2001. Approval to resume thermal processing was granted January 15, 2001.

Maintain Safe and Compliant PFP

- Through January 23, 2001, there were 420 calendar days (over 1.34 million staff hours) since the last recorded lost workday injury that occurred on December 2, 1999.
- Completed aerosol testing of the 291-Z stack monitoring system. This test confirmed monitoring efficiency and capability to detect potential radionuclide releases. A formal test report is being developed.
- Installation and testing of backflow preventers within the PFP complex continues. To date, ten of twelve backflow preventers have been installed, tested, and are operating. This activity remains significantly ahead of schedule of the June 2001 RL milestone completion date for this task.
- The Defense Nuclear Facilities Safety Board recently visited the facility and stated they were generally impressed with the turnaround and momentum they had observed in the last two years. They also seemed particularly impressed with the ALARA program responsibilities to identify ways in which to reduce exposure and will promote this idea throughout the DOE complex.

Stabilization of Nuclear Material

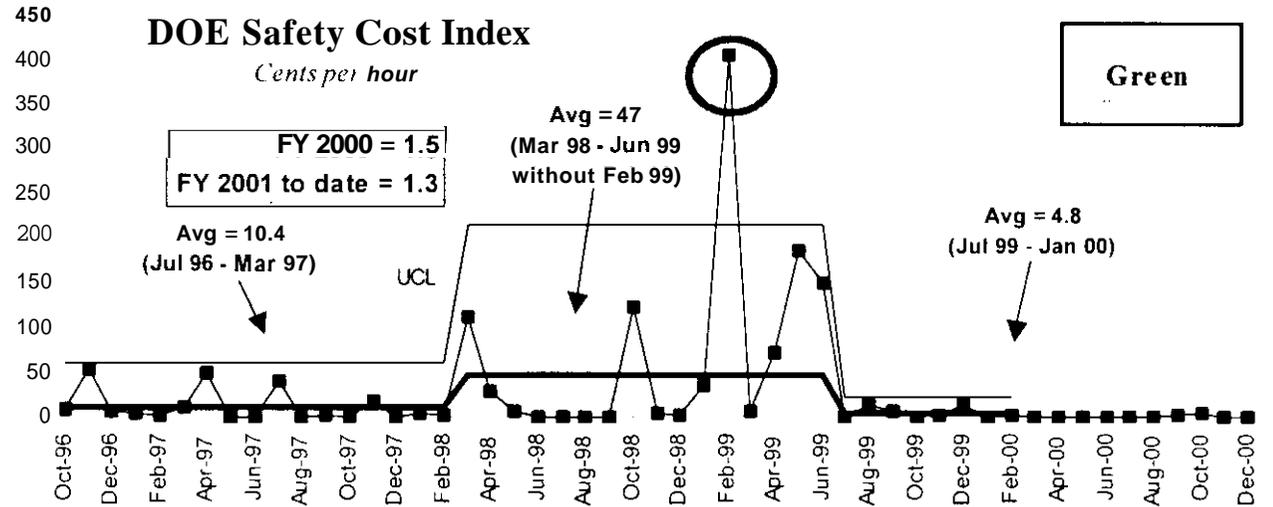
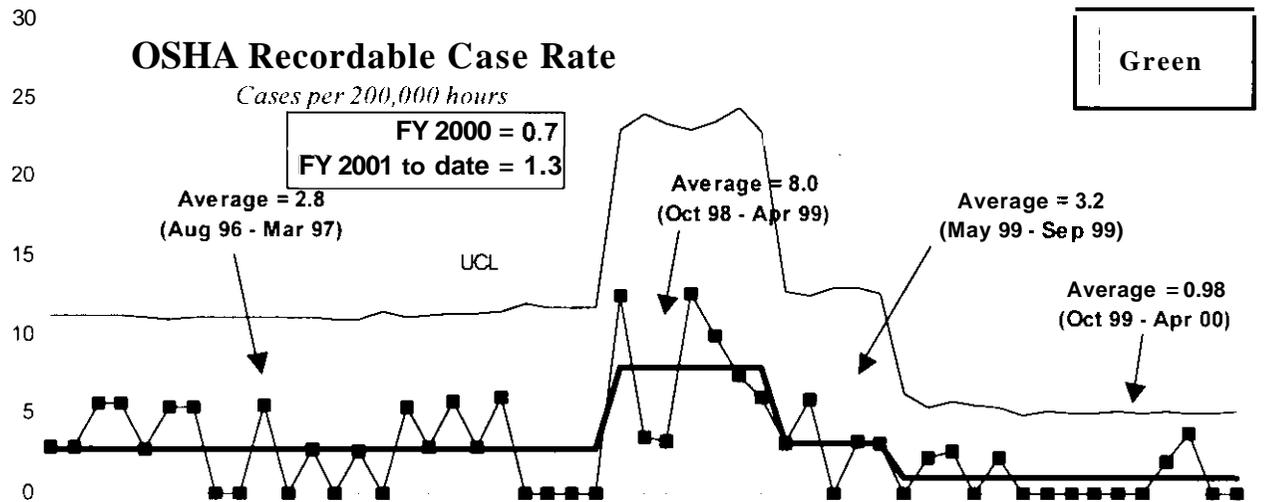
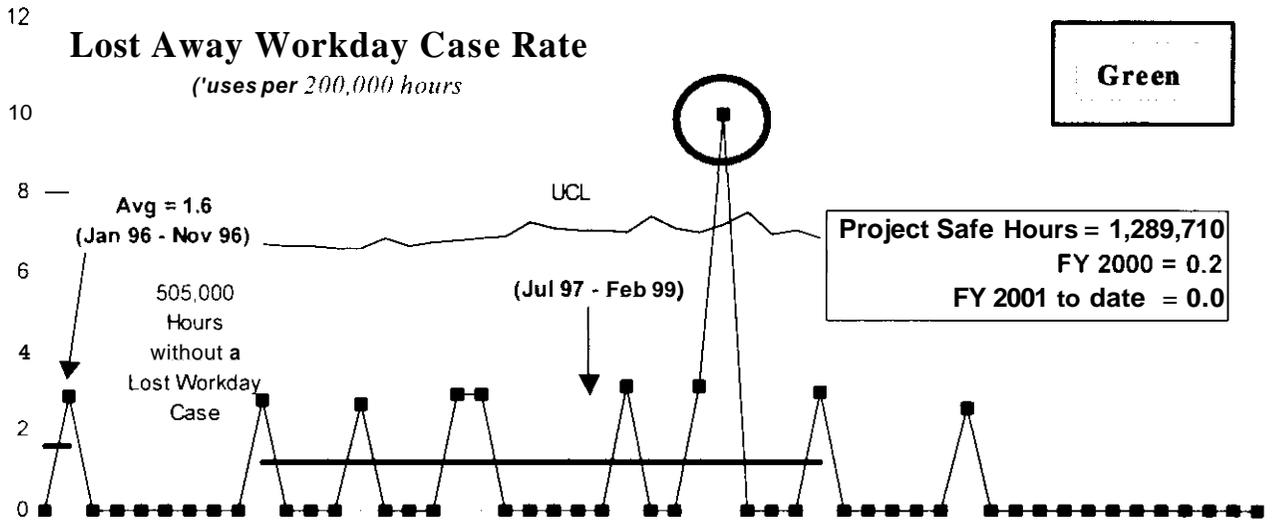
- Initiated planned second shift residue processing operations on January 8th to expedite packaging in support of semi-weekly shipments of Rocky Flats ash to the Central Waste Complex.
- Upgraded hardware has been installed (two-boat hot plate system) and is operational in glovebox #3 to support solutions processing. A second two-boat hot plate system is scheduled to be installed and operational in late February 2001 that will further increase throughput capacity.
- A plan for the disposition of Pu alloys was developed which divided the inventory into three groupings and could result in reduced processing requirements for lower level Pu items.

Disposition of Nuclear Material

- Recently completed a value engineering study that indicated significant project efficiencies could be realized by competitively bidding all remaining Project W-460 construction work. This recommendation is being implemented.
- A new daily high in the production rate for canning material was reached January 22, 2001 with the welding out of seven cans.
- Seven new transport wagons have been fabricated and delivered to the facility that will significantly improve the ability to transport and process materials.
- Hot startup of the Outer Can Welder (OCW) is currently scheduled for April 9, 2001. Efforts are underway however to accelerate startup to April 1, 2001.

SAFETY

The Nuclear Material Stabilization Project (NMSP) has achieved 1.34 million safe work hours since the last new case with days away from work. The NMSP OSHA Recordable Case Rate is stable.

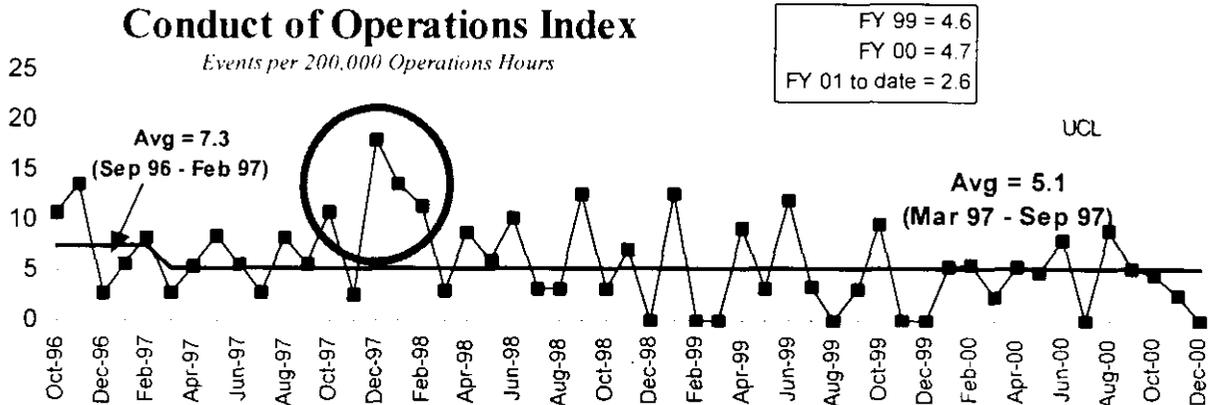


ISMS STATUS

There were continued safety improvements at PFP through Integrated Environmental, Safety and Health Management System (ISMS).

CONDUCT OF OPERATIONS

Green



BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Yellow

Plant management has identified, and will request DOE-RL concurrence, for direct disposal of a number of candidate low gram plutonium nitrate solutions currently scheduled for $Mg(OH)_2$ processing. This modification, if approved, could potentially result in schedule acceleration of the solutions stabilization project and reduce processing, packaging, and storage costs.

Opportunities for Improvement

Green

Exposure Reduction — Funding was approved, and procurement is underway, to purchase the remote controlled video camera that will reduce employee exposure in the 2736-Z vaults by performing remote video inspections and inventories. The equipment is expected to be delivered in March 2001. *[No further status to be provided.]*

Oxides/Metals and Polycubes Stabilization — Completed an ALARA evaluation and cost benefit analysis for dose reduction alternatives for the stabilization of the polycube inventory. A shielded can will be used for transport from the vaults into the glove box system and shielded tongs for handling the polycubes once the cans have been opened. *[No further status to be provided.]*

Security and Operational Improvement — Funding has been approved to procure and install nineteen (19) remote surveillance cameras and an automated access control system throughout the PFP complex. This upgrade enhances and satisfies RL security and fire protection requirements. *[No further status to be provided.]*

Process Efficiency — Continuing to identify alloys that can be stabilized early using potentially available muffle furnace capacity. The priority for Furnaces 1, 2 and 3 is thermal stabilization of solutions precipitate. For Furnaces 4 and 5, the priority is for the thermal stabilization of metals if they ignite and oxidize. If that doesn't happen, and if there are no solutions precipitate furnace charges available, then alloys are the next candidate for furnace charges. Having these backup material options ensures maximum use of available furnace capacity. *(No further status to be provided.)*

Cost Savings — Six (6) government excess calorimeters have been located and are being procured to support the alloys portion of the residues packaging project. Utilizing this approach significantly reduces lead time and results in a conservative cost savings of \$400,000. *(No further status to be provided)*

UPCOMING ACTIVITIES

- Westinghouse Savannah River Company's delivery of the 2736-ZB Bagless Transfer System (BTS) and Outer Can Welder (OCW) is expected during the second quarter of FY 2001.
- Complete modifications to one vault cubicle by April 2, 2001. (Milestone TRP-99-412).
- Complete repackaging and shipping of Rocky Flats ash to the Central Waste Complex (CWC) by April 30, 2001. (Milestone TRP-01-515).
- Complete stabilization of plutonium (Pu) alloys by June 30, 2001 (Milestone TRP-01-501).
- Complete repackaging of Pu metal inventory in 3013 inner cans by March 31, 2001, and outer cans by August 1, 2001.

MILESTONE ACHIEVEMENT

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	2	0	2
DOE-HQ	0	0	0	0	0	1	1	2
RL	1	0	0	0	0	4	0	5
Total Project	1	0	0	0	0	7	1	9

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones as of January 26,2001

Number	Milestone Title	Status
M-083-07 (TRP-01-515)	"Complete Repackaging & Shipping of Rocky Flats Ash to the CWC"	Due April 30, 2001 - Currently behind schedule but April milestone completion date will be met. Yellow
M-083-08 (TRP-01-516)	"Complete Requirements to Ship Rocky Flats Ash to WIPP"	Due June 1,2001 - On schedule. Green
DNFSB Commitments		
M-IP-114 (TRP-01-501) R94-01)	"Ship Alloys to SRS or Complete Stabilization of Alloys"	Due June 30, 2001 - Currently redefining the milestone completion criteria with RL. Yellow
M-IP-110 (TRP-02-500)	"Complete Packaging of Metal Inventory"	Due March 31,2001 - Metal and corrosion Products items are scheduled to be brushed and packaged in inner Bagless Transfer System containers by March 31,2001 and April 30, 2001 respectively. All material will be packaged in outer 3013 containers by August 1,2001.

MILESTONE EXCEPTION REPORT

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

Overdue - 0

Forecast late - 1

TRP-02-500	HQ	Complete Packaging of Metal Inventory	03/31/2001	08/01/2001
1.4.5				

Cause: The Outer Can Welder, required for completion of this milestone, will not be operational in time to meet this milestone commitment.

Impact: This DNFSB Recommendation 2000-1 milestone will be delayed until August 31, 2001.

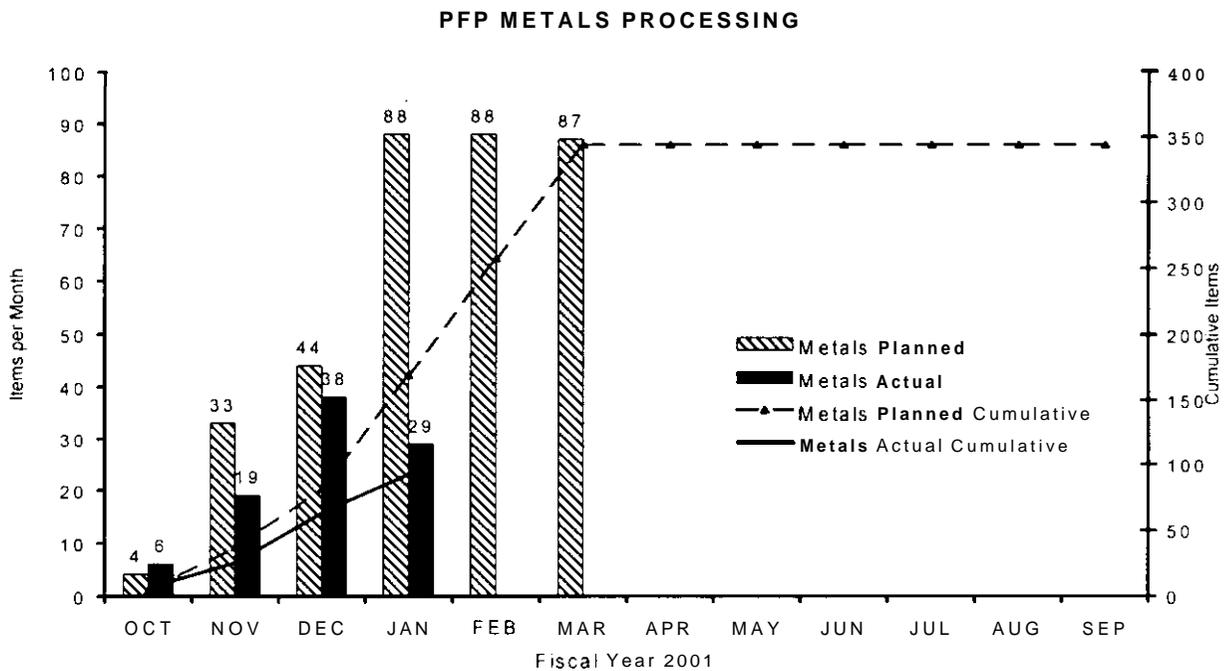
Corrective Action: Nothing to report at this time.

Number	Milestone Title	Status
DNFSB Commitments		
R94-01 (TRP-01-500)	"Complete Stabilization & Packaging Plutonium Solutions"	Due December 31, 2001 - Currently forecast to be 3 months behind schedule.

PERFORMANCE OBJECTIVES

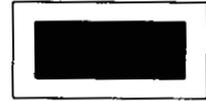
Oxides/Metals/Polycubes Stabilization

Yellow

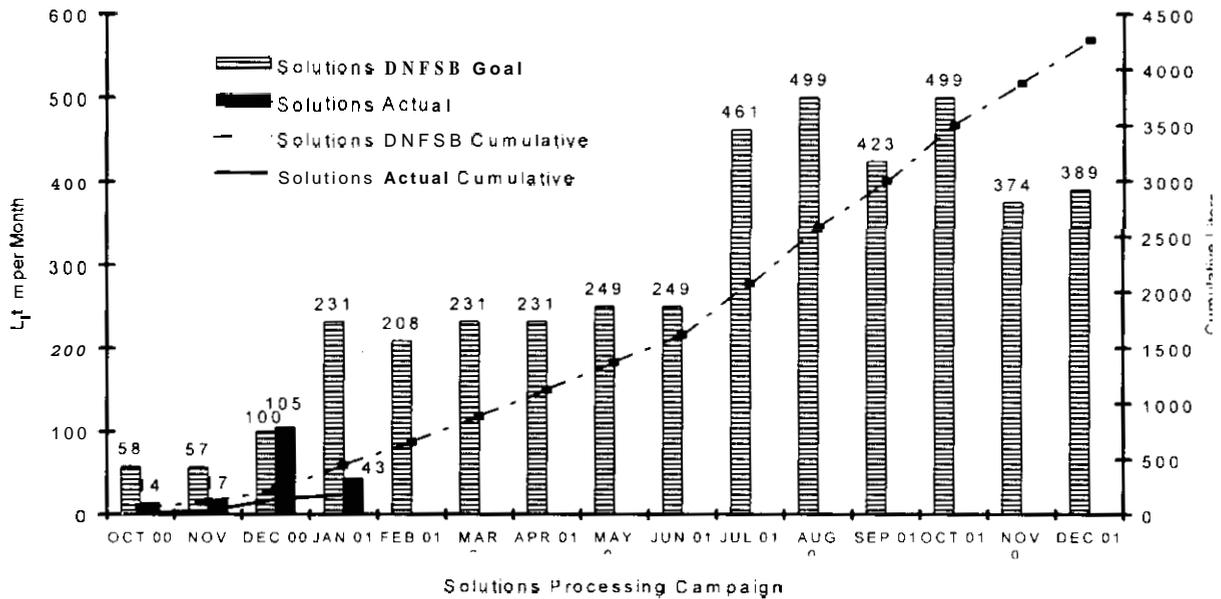


Cutting wheel failures have impacted the schedule recovery effort.

Solution Stabilization

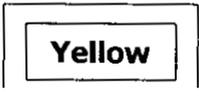


PFP SOLUTIONS PROCESSING

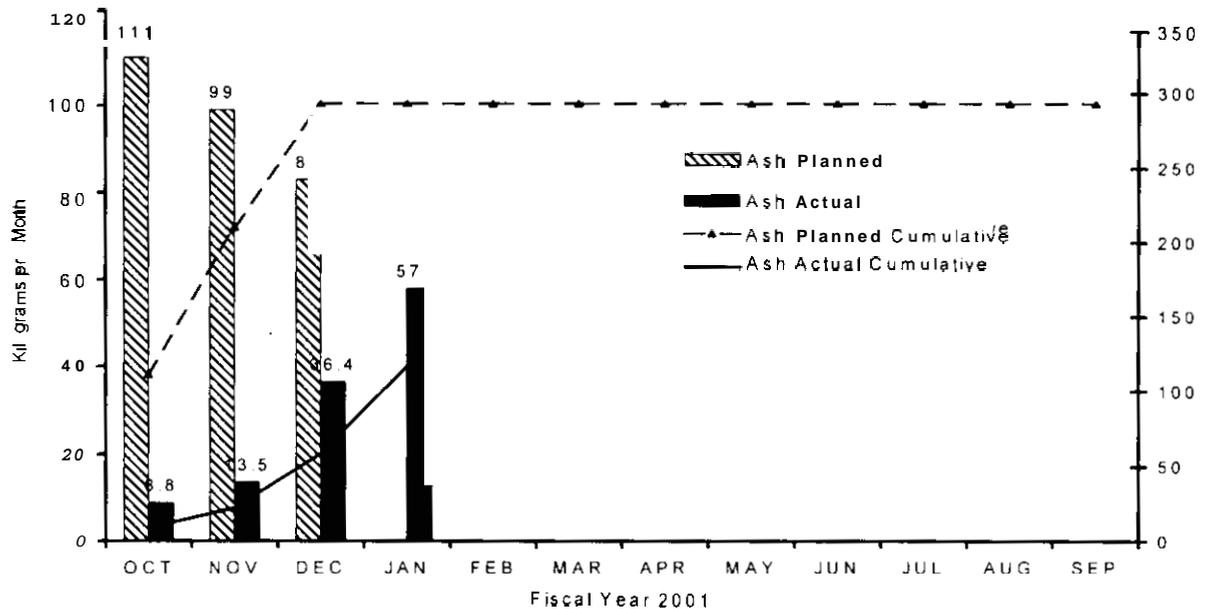


The behind schedule status is due to the quantity of the boats generated per liter from the precipitation process being significantly higher than forecasted in the baseline estimates; hence schedule progress is impacted.

Residues Stabilization



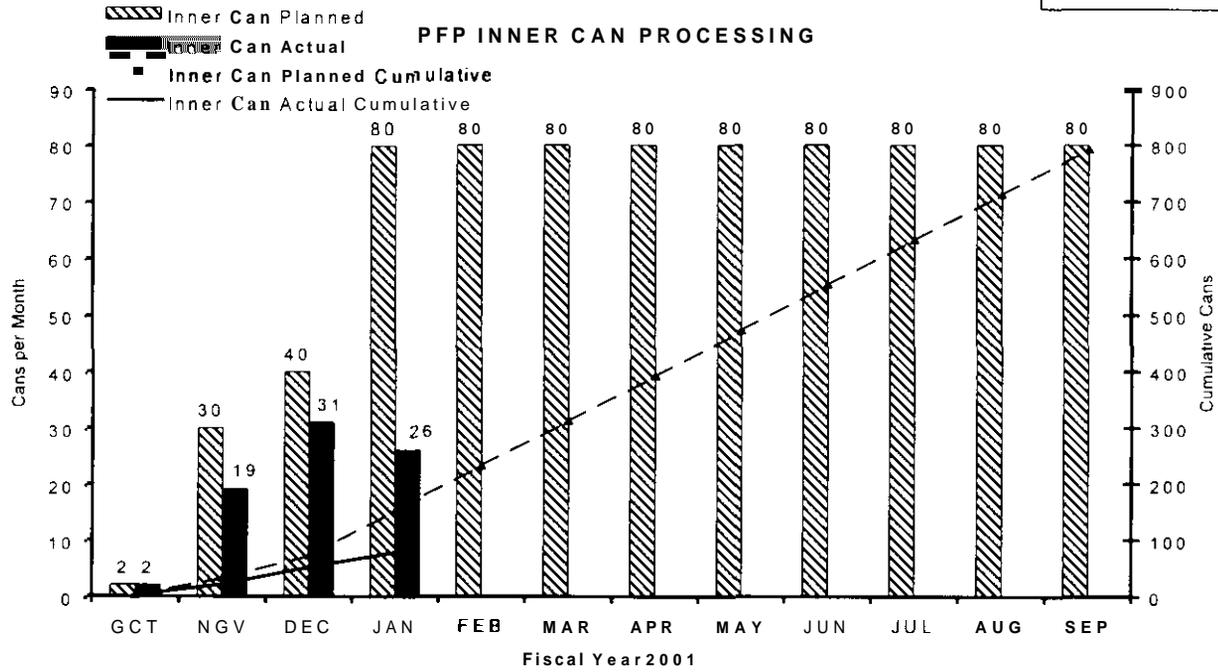
PFP ASH PROCESSING



Significantly behind schedule for anticipated target date, however the April Tri-Party Agreement Milestone (M-083-07) will be met.

Inner Can Processing

Yellow



Metal and corrosion products items are scheduled to be brushed and packaged in inner Bagless Transfer System containers by March 31, 2001 and April 30, 2001 respectively. All material will be packaged in outer 3013 containers by August 1, 2001.

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

Yellow

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
WBS 1.4.5	PFP	\$ 26,222	5 22,111	\$ 23,504	5 (4,110)	-16%	5 (1,392)	-6%	5 106,644	5 106,644	
PBS TP05	Deactivation										
Total		\$ 26,222	5 22,111	5 23,504	5 (4,110)	-16%	5 (1,392)	-6%	5 106,644	\$ 106,644	

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$4.1M (16% percent) unfavorable schedule variance is primarily due to Project W-460 procurement delays, resolution of Residue Packaging and Solutions Stabilization operational issues, and resource limitations required to support planned special projects. (See detailed variance narratives)
Excluding RL holdbacks for steam, laundry and internal work orders, the resultant \$0.2 million (1 percent) unfavorable cost variance is within the established reporting threshold guidelines.

Cost variance thresholds: Unfavorable cost variances greater than 5 percent, favorable cost variance greater than 10 percent. Schedule variance thresholds: Unfavorable schedule variances greater than 7.5 percent, favorable schedule variance greater than 10 percent.

Schedule Variance Analysis: (-\$4.1M)

Maintain Safe & Secure SNM (-\$78K) — 1.4.5.1.10

Description and Cause: The unfavorable variance is primarily attributable to a later than planned start of the Remote Material Surveillance System upgrade. (See "Opportunities For Improvement" section for additional information)

Impact: No impact at this time. Despite the delayed start, this project is expected to be completed as scheduled.

Corrective Action: None required.

Maintain Safe & Compliant PFP (-\$443K) — 1.4.5.1.11

Description and Cause: The unfavorable schedule variance is due to a shortage of staff delaying the start of planned supply fan, 2736-ZB air conditioning, and continuous air monitor (CAM) upgrades.

Impact: No impact at the present time. Despite the delayed start, these projects are expected to be completed as scheduled.

Corrective Action: Efforts are underway to expedite the staff increase necessary to support the planned special project workscope.

Stabilization of Nuclear Material (-\$900K) — 1.4.5.1.13

Description and Cause: Operational issues in the Residues Packaging project, now resolved, are primarily driving the unfavorable schedule variance. These included contamination problems during seal out activities, requalification of the Segmented Gamma Assay System, installation of a containment tent, and partial delivery of Pipe Overpack Containers (POCs).

Also contributing to this variance is the Solutions Stabilization Project that is processing material slightly behind the baseline schedule due to generation of higher than planned quantities of precipitate. Additionally, operation of the prototype vertical denitration calciner (PVDC) is scheduled but not currently supported. This system will be dismantled and the plutonium holdup will be retrieved and properly dispositioned this fiscal year.

Impact: Although the Residues Packaging is significantly behind schedule for the original December 2000 target date, the April 30, 2001 Tri-Patty Agreement Milestone (M-083-07) commitment will be met. The DNFSB milestone (TRP-01-500) to complete solutions stabilization by December 31, 2001, is forecast to be 3 months behind schedule.

Corrective Action: Staffing to support second shift Residues Packaging Project operations has been implemented. Additional process improvements including increased lag storage, revision to the Operational Safety Requirement to allow increased inventory, and installation of upgraded hardware (two boat hot plate systems) are expected to increase the solutions stabilization processing throughput. Baseline Change Request (BCR) FSP-2001-014 is in process to extend the completion of the Solutions Stabilization Project.

Disposition of Nuclear Material (-\$2,679K) — 1.4.5.1.14

Description and Cause: The unfavorable schedule variance is primarily due to delays in receiving Project W-460 equipment and material procurements and late approval of the Fire Hazards Analysis that has impacted 2736-ZB Bagless Transfer System construction. Shipments of packaged Rocky Flats ash to the Central Waste Complex are also behind schedule.

Impact: No impact is currently forecast for Project W-460 or completion of Rocky Flats residue packaging. Recovery actions have been developed and implemented that are expected to recover the current unfavorable schedule variance.

Corrective Action: A recent value engineering study concluded significant Project W-460 efficiencies could be realized by competitively bidding all remaining construction work. The new construction contractor is expected to be onboard in early February. Residue packaging second shift operations has been implemented and expedited transfer of Rocky Flats ash to the Central Waste Complex is underway.

Cost Variance Analysis: (-\$1.4M)

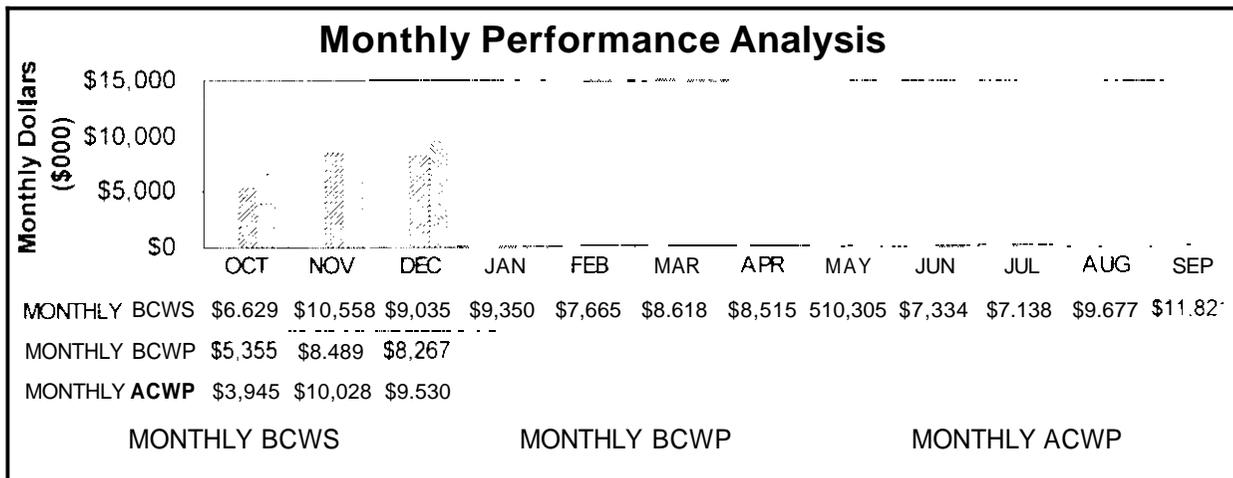
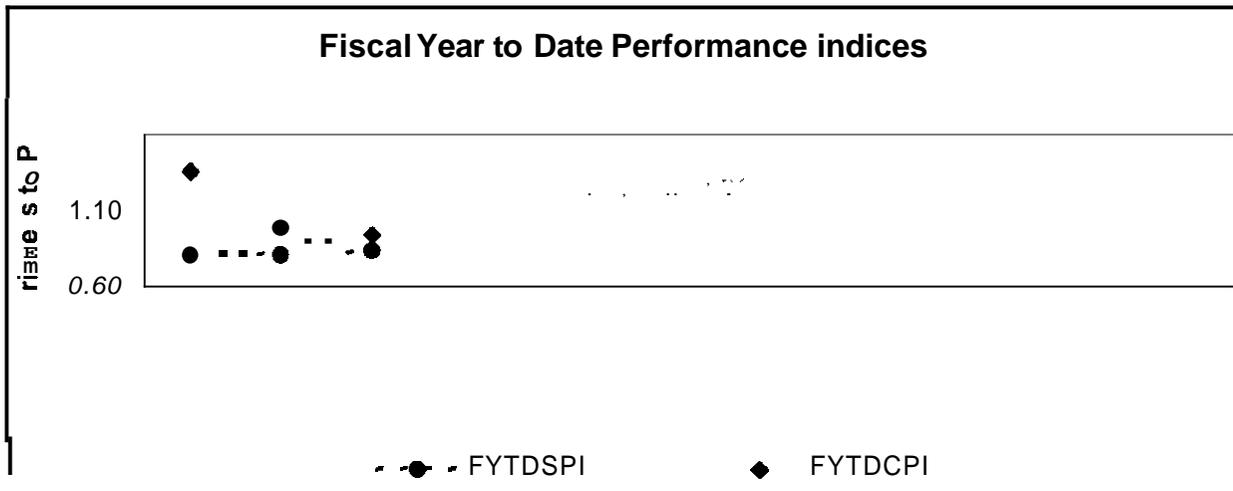
PFP Deactivation — 1.4.5/TP05

Description and Cause: Although the Project is within the authorized baseline reporting threshold, the Project W-460 unfavorable variance (-\$1.1M) is noteworthy. This variance is primarily attributable to less than planned construction progress due to an aggressive project ramp-up and delays in approval of the Fire Hazards Analysis.

Impact: No impact projected.

Corrective Action: A new subcontractor has been identified and is expected to be on board in early February. The positive cost variances in the remaining WBS elements have been identified as savings from delay in staffing rampup. A Baseline Change Request has been submitted to the Fluor Hanford Change Control Board for approval to document these savings as part of the overall FH savings goal of \$30M.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)



FUNDS MANAGEMENT

FUNDS VS SPENDING FORECAST (\$000)

FY 2001 TO DATE

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Plateau									
145 Nuclear Materials Stabilization									
TP05 Operating	\$ 91,466	\$ 91,624	\$ (158)						
Line Item							\$ 13,484	\$ 13,284	\$ 200
Total Nuclear Mat. Stab. Operating	\$ 91,466	\$ 91,624	\$ (158)						
Total Nuclear Mat. Stab. Line Item							\$ 13,484	\$ 13,284	\$ 200

Control Point

ISSUES

Technical Issues

Issue: The quantity of boats per liter of solution from the precipitation process is higher than expected or forecasted in the baseline estimates and schedules.

Impacts: Extends project completion date beyond the Defense Nuclear Facilities Safety Board 94-1/2000-1 commitment.

Corrective Action: Processing estimates and production schedules have been revised based on results of the characterization processing task. One two-boat hot plate has been installed and the operational testing of the second two-boat hot plate began in mid-January. Preliminary results are favorable. Additional lag storage and increased glovebox inventory items are in work. Baseline Change Request FSP-2001-014 (extending the completion date to March 31, 2002) was submitted to RL for approval.

Issue: The rate of throughput for polycube processing was determined to be less than planned during the latest Integrated Project Management Plan (IPMP) update.

Impacts: The processing method change will provide a recovery of the schedule delay. However, the completion of polycube stabilization may still be impacted up to two months because of the increased amount of precipitate to be stabilized, limiting furnace availability.

Corrective Action: The change to the processing method has been implemented which will accommodate the original rate of throughput and will permit significant schedule recovery, but a late completion is still forecast. *(No further status to be provided)*

Issue: Portions of the oxides to be processed contain fairly high levels of chloride.

Impacts: Completion of oxide stabilization could be delayed.

Corrective Action: A meeting was held with PNNL to select the characterization and material pretreatment methods to remove chlorides prior to processing. A report from PNNL is expected by the end of January.

Regulatory, External, and DOE Issues and DOE Requests

Issue: Nothing to report.

Impacts: None at this time.

Corrective Action: None at this time.

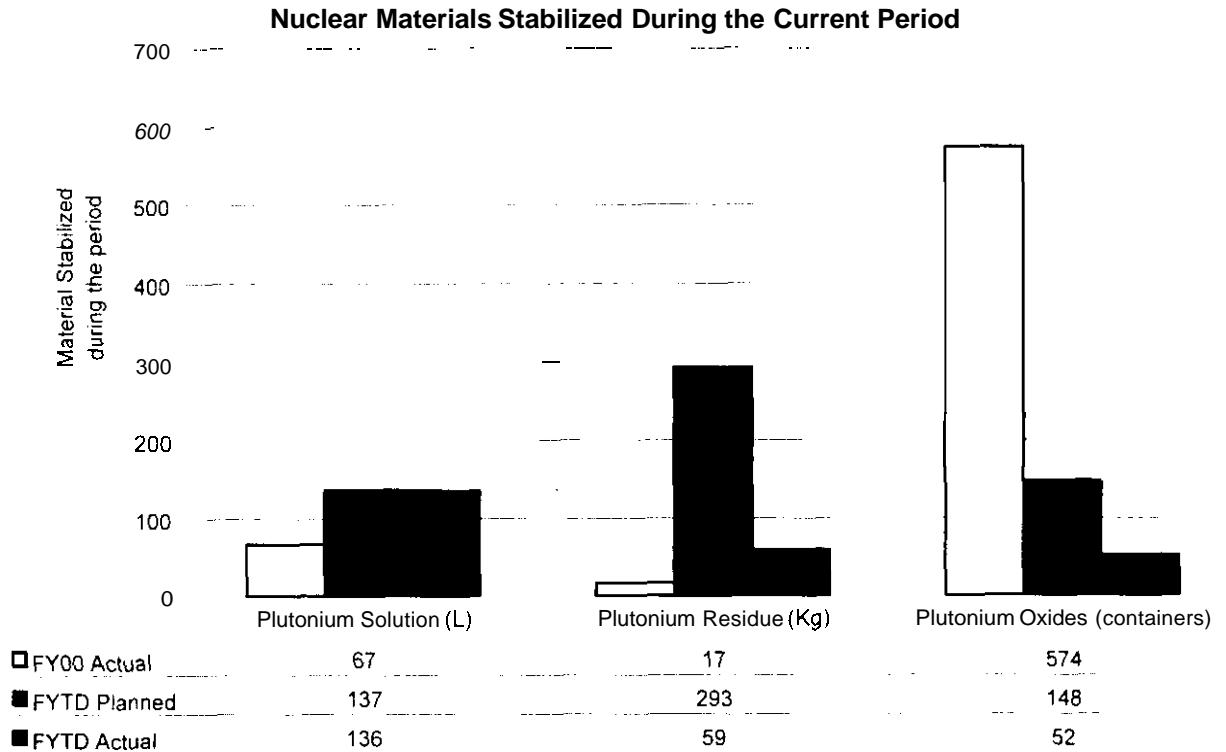
BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGINAL	BASELINE CHANGE REQUEST TITLE	FY 01 COST IMPACT (\$000s)	S C H	T E C H	DATE TO FHI CCB	CCB APR'VD	RL APR'VD
FH-2001-001	12-Sep-00	Base Operations Reduction	<\$6790>	X	X	25-Oct-00	25-Oct-00	28-Dec-00
FH-2001-002	25-Sep-00	FY 01 Fee Reduction to 90%	<\$600>			25-Oct-00	25-Oct-00	28-Dec-00
FH-2001-003	25-Sep-00	Addition of High Priority Workscope	\$9,707	X	X	25-Oct-00	25-Oct-00	28-Dec-00
FSP-2001-014	29-Nov-00	Extend Solutions Campaign	<\$407>	X	X	11-Dec-00	18-Dec-00	In Process
FSP-2001-020	18-Dec-00	MYWP Phase I Adjustments	\$554	X	X	23-Jan-01	24-Jan-01	N/A
FSP-2001-021	13-Dec-00	Additional Cost Savings	<\$1672>			29-Dec-00	9-Jan-01	In Process
FSP-2000-022	19-Dec-00	Parking Lot Enhancements	\$150	X	X	29-Dec-00	9-Jan-01	N/A
FSP-2001-024	29-Dec-00	Rebaseline Alloy Stabilization	TBD	X	X			
FSP-2001-030	18-Jan-01	Transfer Rocky Flats GFE to PFP	\$0	X		Approved by Geo. Jackson on 1/23/2001		

KEY INTEGRATION ACTIVITIES

- Reliability testing of the 2736-ZB Outer Can Welder (OCW) will be completed in mid February at the Westinghouse Savannah River Company. This testing will demonstrate the reliability of the OCW to consistently produce 3013 containers. In parallel the NMSP will develop procedures and conduct training. This approach optimizes resource availability and is expected to support the required delivery date.
- Coordinating with Lawrence Livermore National Laboratory (LLNL) to ship oxide material to their facility this spring at no cost to the NMS Project.
- Delivery of the 2736-ZB Bagless Transfer System (BTS) and Outer Can Welder (OCW) is scheduled for February and March 2001, respectively.

NUCLEAR MATERIALS STABILIZED DURING THE CURRENT PERIOD



Plutonium Solution: On schedule

Plutonium Residue: Technical and operational issues, now completed, impacted production during the first quarter of FY 2001. A recovery plan has been implemented and is expected to recover the schedule loss.

Plutonium Oxides: Higher than planned spontaneous oxidation rates and late delivery of the Outer Can Welder (OCW) has impacted stabilization. Delivery of the OCW is expected in early March with startup operation scheduled in April.



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

P.M. Knollmeyer, RL
(509) 376-7435

N.C. Boyter, FH
(509) 373-3725

SUMMARY

The River Corridor Project (RCP) 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 Project. 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, and Cost/Schedule data contained herein is as of December 31, 2000. All other information is as of January 22, 2001.

During this report period the 324 Building Deactivation Project staff shipped two additional steel waste disposal boxes (SWDBs) to compliant storage for a total of six out of the twelve to fourteen SWDBs estimated to complete B Cell cleanout. Following its planned 30-day maintenance outage, the 30-ton crane was successfully returned to service on December 29, 2000, 7 days ahead of schedule. In addition, grout container-88 was unloaded and prepared for potential re-use, resulting in a reduction in the amount of mixed waste to be shipped from the B Cell.

While in min-Safe mode, the 327 Building Deactivation Project staff completed the annual HEPA filter testing (scheduled for November 2000) on January 3, 2001. All required notifications were made regarding the delay. A work package to replace the 3 failed HEPA filters is complete and work is scheduled to begin by the end of January.

The 300 Area Treated Effluent Disposal Facility (TEDF) treated 6.3 million gallons of wastewater for the month of December. In addition, process simulation tests run to assess wastewater from the PNNL Environmental Molecular Science Laboratory chilled water system were successfully completed 1 day early on January 20, 2001.

The Accelerated Deactivation Project has received materials for the fabrication of the Uranium billet boxes with the first twenty boxes targeted to be available the week of January 22, 2001. Progress toward preparation for billet repackaging, targeted to begin the week of February 5, 2001 continued during the report period. Activities included the approval and issuance of the startup review plan and associated assessment forms. In addition, the development and approval of the draft remote entry work plan for 224-T, and the 209-E stack flow test and 209 exhaust HEPA aerosol challenge test were successfully completed.

NOTABLE ACCOMPLISHMENTS

324 Building Deactivation Project —

- Two additional steel waste disposal boxes (SWDBs) were shipped to compliant storage for a total of six out of the twelve to fourteen SWDBs estimated to complete B Cell cleanout
- The 30-ton crane was returned to service December 29, 2000, 7 days ahead of schedule, following the planned 30-day maintenance outage
- Grout container-88 was unloaded and prepared for potential re-use, which results in a significant waste savings by reducing the amount of mixed waste to be shipped
- Grout containers-157 and 159 were filled and transferred to A Cell
- Rectangular grout container-119 was filled, including the last of the high-level vault filters
- The Facility Evaluation Board field assessment was completed and a draft report issued

327 Building Clean up —

- The annual HEPA filter testing that was scheduled to be complete by November 2000, was completed on January 3, 2001. All required notifications were made regarding the delay
- A work package to replace 3 failed HEPA filters is complete and the field work scheduled to begin by the end of January
- The FY 2001 working schedule which included contingency schedule for deactivation scope as resources become available was issued
- The Facility Evaluation Board field assessment was completed and a draft report issued

300 Area Treated Effluent Disposal Facility (TEDF) —

- TEDF treated 6.3 million gallons of waste water for the month of December
- Process simulation tests run to assess wastewater from the PNNL Environmental Molecular Science Laboratory chilled water system were successfully completed 1 day early on January 20, 2001
- The Facility Evaluation Board field assessment was completed and a draft report issued

Accelerated Deactivation Project —

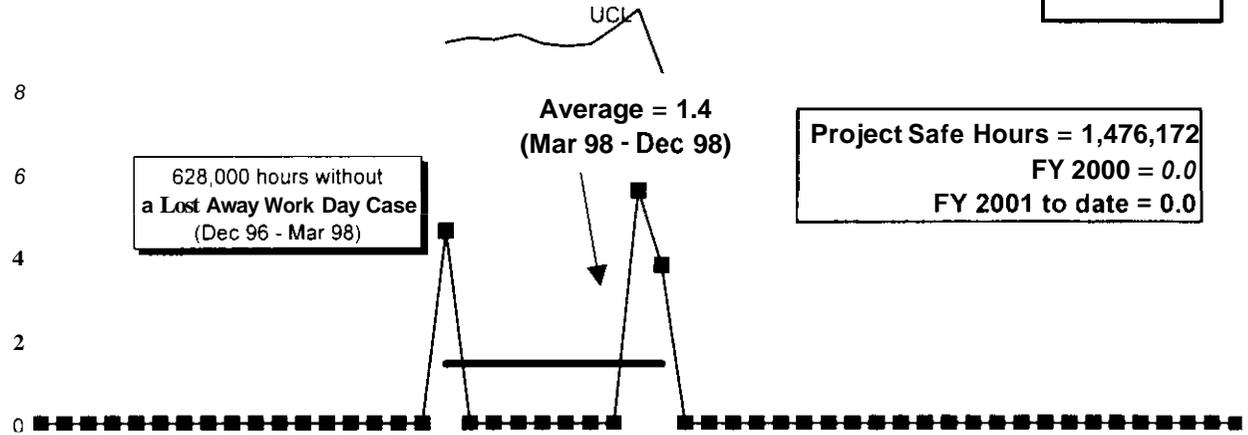
- Materials for Uranium billet box fabrication have been received. The first twenty boxes are targeted to be available the week of January 22, 2001
- Progress continued to prepare for billet repackaging including the approval and issuance of the startup review plan and associated assessment forms. Billet repackaging is targeted to begin the week of February 5, 2001
- Completed development and approval of draft remote entry work plan for 224-T
- Successfully completed 209-E stack flow test and 209 exhaust HEPA aerosol challenge test
- The memorandum of agreement to allow for funds transfer from PNNL to FH has been finalized and is being routed for final approval between PNNL, FH and DOE
- The Facility Evaluation Board field assessment was completed and a draft report issued

SAFETY

The River Corridor Project (RCP) is approaching 1.5 million safe work hours since their last lost away workday case. A new baseline for the RCP OSHA Recordable Case Rate was established at 3.0 cases per 200,000 hours due to a peak in cases in the summer of 2000, but there have been no new OSHA recordable cases in the past 4 months.

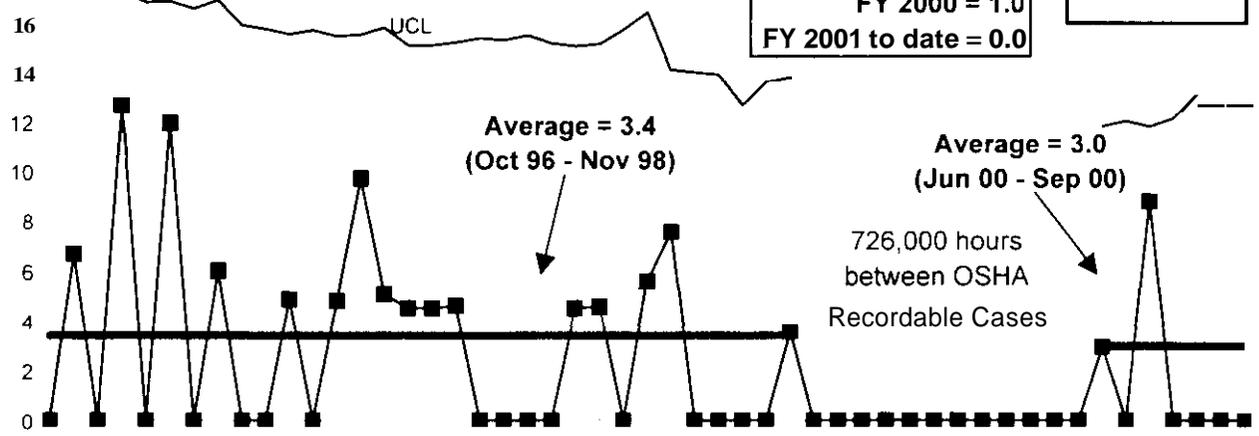
12 Lost Away Workday Case Rate
Cases per 200,000 hours

Green



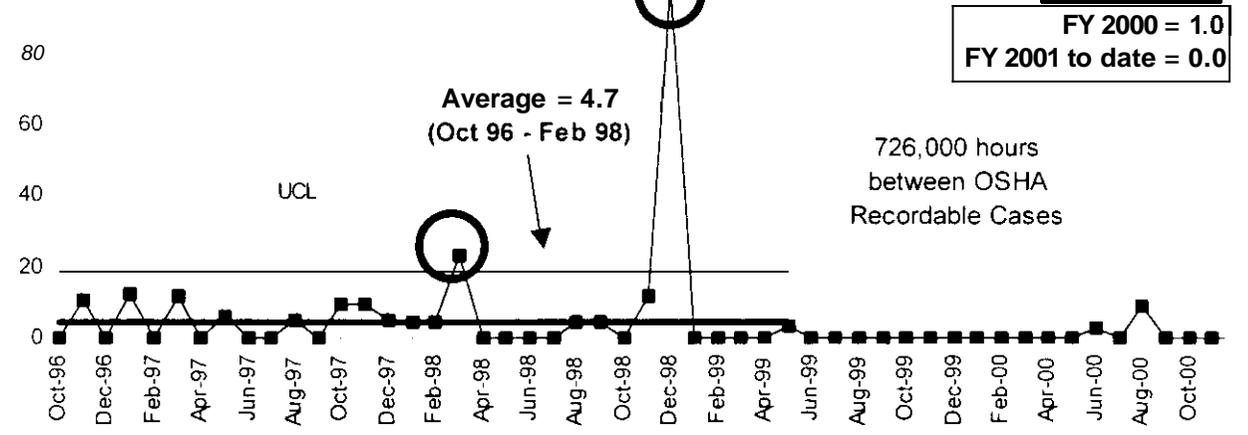
OSHA Recordable Case Rate
Cases per 200,000 hours

Yellow



DOE Safety Cost Index
Cents per hour

Green

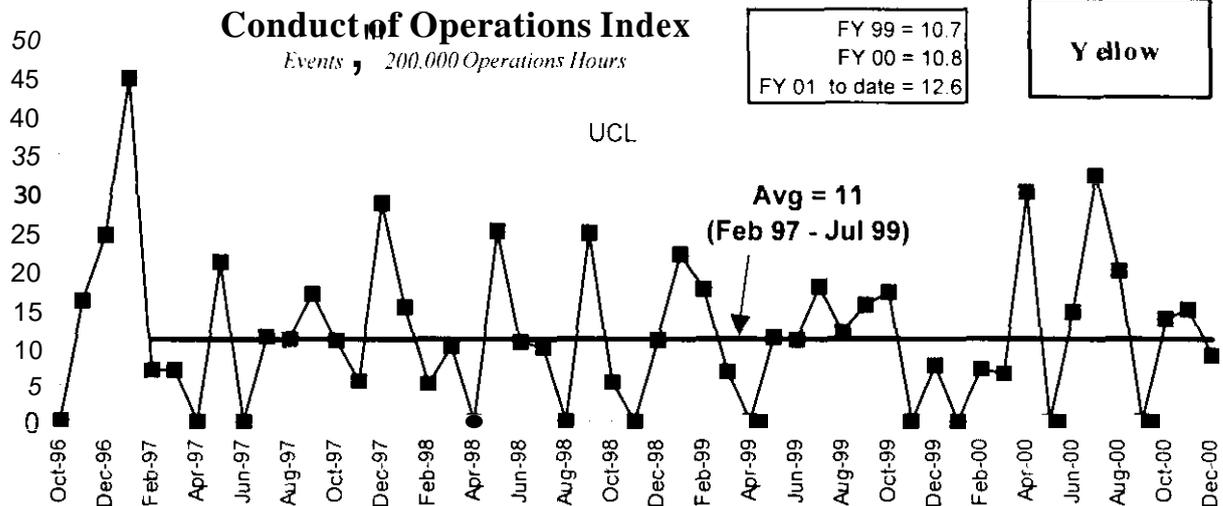


ISMS STATUS

The Facility Evaluation Board assessment has been completed. The report on grading is being finalized.

The RCP ISMS Sustain and Maintain process is in place. There are no new ISMS events to report

CONDUCT OF OPERATIONS



The River Corridor Project (RCP) is continuing to evaluate the appropriate action(s) to address the number of Management Problems reported.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Green

300 Area Accelerated Closure Plan (ACP) — The ACP provided the basis for the new "Done-in-a-Decade" closure project saving over \$1.0 billion. A Baseline Change Request (BCR) has been issued to prepare the Area 1 Engineering Evaluation & Cost Analysis (EE/CA) and to begin skyline reduction activities during FY 2001, with incremental funding provided by RL.

Technical Reviews of 327 Hot Cell Removal — Technology Management, in conjunction with RCP, has submitted a draft proposal for conducting a review of the feasibility of intact removal of hot cells from the 327 facility. The topic and scope of this proposal was accepted by 327 Facility management; the review began January 22, 2001.

Remote Size Reduction System — FH has been notified that the Remote Operations Size Reduction System (ROSRS), a remote glove box size reduction system designed and fabricated for use at Rocky Flats, will not be utilized. FH, in conjunction with RL, Rocky Flats, and EM-50, is leading an effort to evaluate the redeployment of the ROSRS to Hanford. The recommendation is targeted to be completed by August 2001.

Value Engineering for Configuration Management — River Corridor Project is planning a Configuration Management (CM) Value Engineering (VE) Study March 5 - 9, 2001. The team that will participate in the CM VE Study includes personnel from the RCP, FH Project Operations Center, other FH Projects, RL, and Bechtel Hanford, Inc. The purpose of the VE Study is to seek out cost-effective CM methods that can be applied to facilities that are either transitioning to deactivation or in a deactivation mode. HNF-PRO-1794 defines four distinct facility condition designators. Facilities designated as Condition 111-Reserve or Condition IV-Deactivated are candidates for a modified approach to configuration management. The limited remaining life represents a value opportunity in the management of CM documentation and costs.

Opportunities for Improvement

324 Project Planning / Execution — On November 7, 2000, FH provided formal notification to RL that Tri-Party Agreement milestone M-89-02 ("Complete removal of 324 Building Radiochemical Engineering Cell B Cell Mixed Waste and Equipment"), due to technical and operational issues, would miss its November due date. FH, in concert with RL and the Washington State Department of Ecology (Ecology), prepared a revised schedule that factored in the lost schedule, and also predicted future schedule impacts. FH has finalized the schedule and is now working to due dates of March 30, 2001, for mixed waste dispersible shipments and low-level waste removal from B Cell, and July 31, 2001 for B Cell low-level waste shipment. *(No further status to be provided.)*

Yellow

Billet Safety Analysis Report for Packaging (SARP) — The Unirradiated Uranium Billet Safety Analysis Report for Packaging (SARP) is required to support shipment of uranium billets off-site. The current uranium billet SARP, Revision K, and the associated Certificate of Compliance (COC), allows shipment of only three billet boxes per trailer instead of five boxes per trailer as were analyzed for the revision. Shipping five boxes instead of three will save approximately \$200K of the billet transportation cost. DOE-HQ is aware of the impact and a revised SARP has been prepared to allow for the five billet boxes per trailer. The revised SARP and COC are targeted to be issued by January 31, 2001.

Green

Value Engineering Crane Maintenance — A value engineering study to determine alternatives and solutions to reduce 324 Building crane downtime and personnel dose was completed on January 12, 2001. A multi-disciplined team comprised of both internal and external experts was utilized. Operations, design and maintenance of the cranes were thoroughly evaluated. A broad range of recommendations was provided to RCP management in the following categories: work management, maintenance, training, operations, engineering and spares management. 324 Building management is currently evaluating the recommendations and making preparations to implement many of them. In addition to the recommendations, gains are expected in organizational dynamics due to working relationships developed between bargaining unit and engineering/management during the study.

Green

UPCOMING ACTIVITIES

Tri-Party Agreement Milestone M-89-02 — A date for completing the mixed waste removal and shipment scope of the milestone, "Complete removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment," is set for March 30, 2001. Removal of the low-level waste is targeted by July 31, 2001.

324 Authorization Basis — Implement technical update of 324 Authorization Basis (Safety Analysis Report) by January 27, 2001.

327 Authorization Basis — Implement technical update of 327 Authorization Basis (Basis of Interim Operation) by end of FY 2001. This has been slipped from May 2001 due to resource limitations of the facility after transitioning to a minsafe mode.

Uranium Disposition — Complete shipment of –235 metric tons of excess uranium billets and –five metric tons of uranium dioxide to the DOE Portsmouth Site in Ohio, by March 30, 2001, and disposition of –140 metric tons of surface-contaminated uranium fuel by June 30, 2001. Additionally, disposition thorium materials located in the 303-K Facility by September 30, 2001.

224-T — Begin 224-T initial entry and characterization by mid-April 2001. This six-week slip from the original March 2001 date is a result of the Criticality Safety Evaluation Report requiring more time than expected.

300 Area Skyline Initiative — Demolish 3902A, 3902B, and 303-K by September 30, 2001.

Robotics System — Therobotic system procured from Cybernetix to support 324 Building in-cell cleanout is scheduled for delivery in March 2001.

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	1	0	0	0	1
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	4	0	4
Total Project	0	0	0	1	0	4	0	5

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones as of January 26, 2001

Number	Milestone Title	Status
M-89-02	"Complete Removal of 324 Building Radiochemical Engineering Cells (REC) B Cell Mixed Waste (MW) and Equipment,"	Due 11/30/00 — Progress continues to be made in accomplishing the milestone work scope, however due to technical and operational issues the milestone was not met. A revised schedule was developed with the support of RL and Ecology The scheduled date for the removal and shipment of mixed waste from B Cell is now March 30, 2001. The date for shipment of low-level waste remains at July 31, 2001, as agreed to with the regulators.
		Yellow
	Nothing to report at this time	

MILESTONE EXCEPTION REPORT

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

Number	Milestone Title	Status
MX-92-06-T01	"Complete Disposition for all Site Unirradiated Uranium"	Due 12/31/00 — Complete as scheduled.

PERFORMANCE OBJECTIVES

Outcomes	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	FHI-M8 – 300 Area Cleanup	
	Measure 1: Accelerate 300 Area Cleanup	
	Expectation 1: Deactivate 324/327 Buildings	
	Base: Complete 26.5% remaining 324/327-baseline work.	3.0% of the remaining low-level scope has been completed through 12/00.
	Base: Complete B Cell cleanout and shipment of B Cell waste to 200 Area Burial Grounds.	6 of the planned 12 to 14 steel waste disposal box (SWDB) shipments of B Cell waste have been made.
	Stretch: Complete additional 2.5% remaining 324/327-baseline work.	No additional work scope has been performed to date.
	Expectation 2: Disposition surplus facilities	
	Base: Disposition 3902A, 3802B & 303-K by 9/30/01.	Planning has been initiated for demolition of the 3 structures.
	Stretch: Disposition 377 Bldg. by 6/30/02.	No work scope has been performed to date,
	Expectation 3: Disposition uranium billets, uranium dioxide, scrap materials in 200/300 Areas, and 303-K thorium-232 by 9/30/01.	Preparation continues to initiate shipment of the uranium billets and uranium dioxide to the DOE Portsmouth site in the second quarter of FY 01.
Transition Central Plateau to support long-term waste management	Measure 2: Support RCP Contract Transition	
	Expectation 1:	
	Stretch: Support RCP contract transition by 7/1/02.	A plan for development of a plan will be prepared by 2/15/01.
	FHI-M3 – 200 Area Facility Disposition	
	Measure 1: Disposition Surplus Buildings and Rolling Stock	
	Expectation 1:	
	Base: Decontaminate & Decommission (D&D) 233-S & 233-SA Facilities by 9/30/04.	Work will not be initiated until 7/01/02.
	Stretch: D&D 233-S & 233-SA by 6/30/04.	Work will not be initiated until 7/01/02.
	Expectation 2: Complete installation of new roofs on PUREX & B Plant by 9/30/02.	Work will not be initiated until 2/01/02.
	Expectation 3:	
Base: Disposition contaminated railcars by 6/30/06.	Efforts continue to disposition one rail car in FY 01. Detail planning for the total PI work scope has been initiated. A project management plan will be issued in February 2001.	
Stretch: Disposition contaminated railcars by 8/31/05.	Nothing to report.	
Super stretch: Disposition contaminated railcars and heavy equipment by 9/30/03	Nothing to report.	

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

Green

By PBS	FYTD									
	BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS TPOI B-Plant WBS 1 4 1	\$ -	0	\$ 0	\$ -	0%	\$ (0)	0%	\$ -	\$ -	
PBS TP04 300 Areal Special Nuclear WBS 1 4 4 Materials	\$ 590	\$ 586	\$ 587	\$ (4)	-1%	\$ (1)	0%	\$ 2,751	\$ 4,090	
PBSTP12 Transition Program WBS 1 4 6 Management	\$ 1,568	\$ 1,567	\$ 1,337	\$ 5	(0)	\$ 231	15%	\$ 6,791	\$ 6,622	
PBSTP10 Accelerated Deactivation WBS 1 4 8	\$ 797	\$ 815	\$ 904	\$ 19	2%	\$ (89)	-11%	\$ 2,911	\$ 3,626	
PBS TP08 3241327 Facility Transition WBS 1 4 10	\$ 7,650	\$ 6,372	\$ 6,737	\$ (1,278)	-17%	\$ (365)	-6%	\$ 34,912	\$ 35,457	
PBS TP14 Hanford Surplus Facility WBS 1 4 11 Program (300Area Revitalization)	\$ 98	\$ 94	\$ 75	\$ (4)	4%	\$ 19	20%	\$ 416	\$ 1,313	
Total	\$ 10,702	\$ 9,434	\$ 9,640	\$ (1,268)	-12%	\$ (206)	-2%	\$ 47,782	\$ 51,108	

Notes RL-Directed costs (steam and laundry) are included in the PEM BCWS 310 TEDF/340 Facility performance data is reported under PBS WM05 (Waste Management)

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM)

FY TO DATE SCHEDULE / COST PERFORMANCE:

The unfavorable schedule variance was primarily due to steel waste disposal boxes (SWDBs) waste loading and shipment delays. Further information at the PBS level can be found in the following Schedule Variance Analysis.

The unfavorable cost variance is within established threshold. Further information at the PBS level can be found in the following Cost Variance Analysis.

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

Schedule Variance Analysis: (-\$1.3M)

3241327 Facility Transition – 1.4.10/TP08

Description and Cause: The unfavorable schedule variance was primarily due to the Steel Waste Disposal Boxes (SWDB) "hot spots" issue (delaying their shipment) and the effect of plant work being put on hold while plant personnel were retrained and procedures strengthened.

Impact: TPA milestone M-89-02 work scope not completed as scheduled.

Corrective Action: Initial briefings with Ecology and RL have been completed. Revised schedule has been developed that moves completion of TPA milestone scope to March 2001. The work is on schedule for the revised target date.

All other PBS variances are within established thresholds.

Cost Variance Analysis: (-\$0.2M)

324/327 Facility Transition — 1.4.10/TP08

Description and Cause: The unfavorable cost variance was a result of cost increase for delay in waste shipments and unplanned crane maintenance.

Impact: No Impact.

Corrective Action: Cost variance is expected to be mitigated by efficiencies during the year.

Accelerated Deactivation — 1.4.8/TP10

Description and Cause: The unfavorable cost variance was primarily a result of labor overruns in the 2714U Waste Drum Characterization activity due to a more complex than planned drum opening, sampling, and repackaging.

Impact: Being evaluated.

Corrective Action: Discussions are ongoing between RCP and Waste Management to determine cause for overrun and to establish a resolution.

Transition Project Management — 1.4.6/TP12

Description and Cause: The favorable cost variance was primarily due to time phasing of planned contract and fee assessment accruals.

Impact: No Impact.

Corrective Action: Contract costs and fee assessment accruals are expected to increase later in the year.

Hanford Surplus Facility Program — 1.4.11/TP14

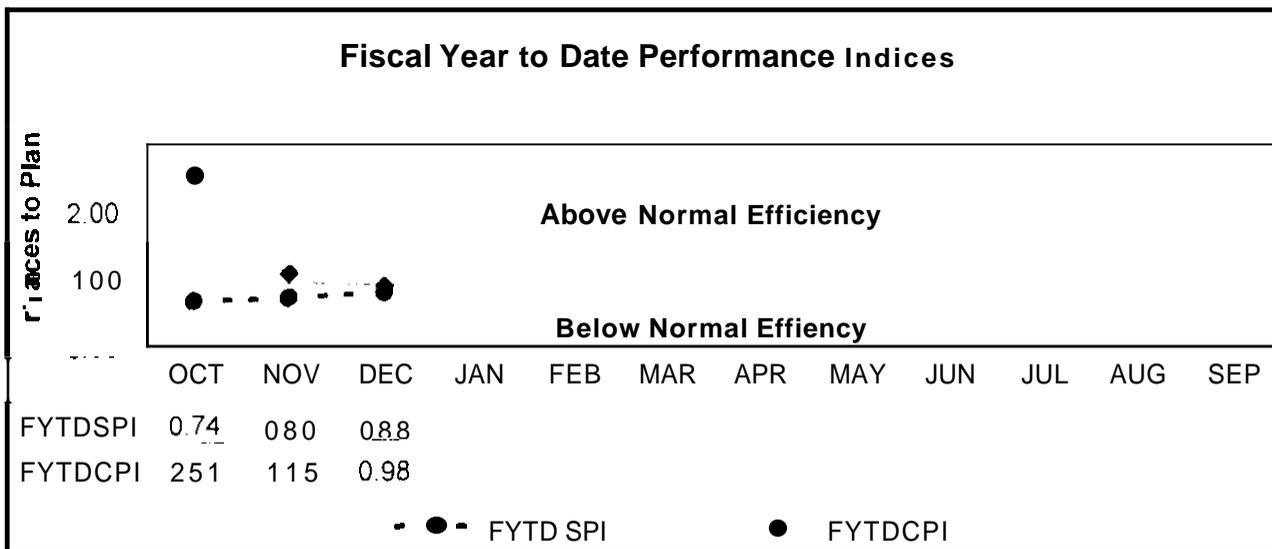
Description and Cause: The favorable cost variance was due to costs for contract support not being incurred as planned.

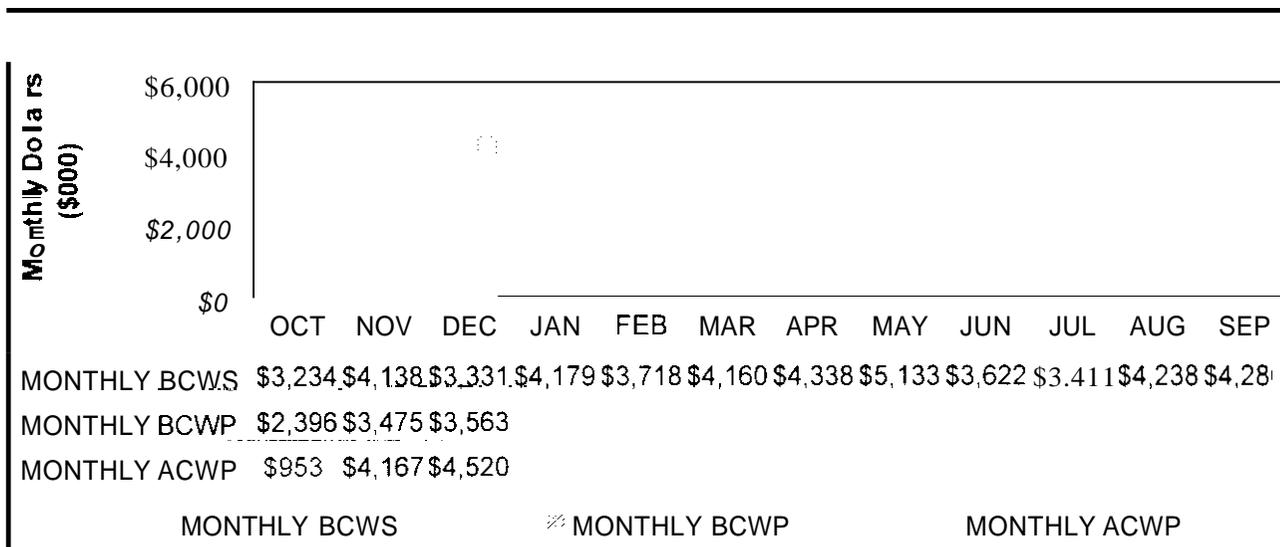
Impact: No Impact.

Corrective Action: The full contract costs are expected later in FY 2001.

All other PBS variances are within established thresholds.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





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

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The River 14 River Corridor TP01, TP04, TP08, TP10, TP12, TP14, WM05 Line Item	49,706	49,601	105	5,637	5,551	86			0
Total River Corridor Operating	\$ 49,706	\$ 49,601	\$ 105	\$ 5,637	\$ 5,551	\$ 86			
Total River Corridor Line Item							\$ -	\$ -	\$ -

* Control Point

ISSUES

Technical Issues

Issue: 324 Building — Hot spots on the bottom of Steel Waste Disposal Boxes (SWDBs) loaded with Rectangular Grout Containers are more radioactive than the current Central Waste Complex (CWC) acceptance criteria of one rem per hour.

Impacts: Shipment schedule/in-cell work schedule has been delayed.

Corrective Action: Pursuing several actions:

- CWC is revising their existing authorization basis to accommodate this and other like shipments
- 324 Building is evaluating SWDB loading to optimize sequence of individual items to minimize dose rates. (*No further status to be provided.*)

Regulatory Issues

Issue: On November 7, 2000, FH provided to RL formal notification that Tri-Party Agreement milestone M-89-02, "Complete removal of 324 Building Radiochemical Engineering Cell (REC) B Cell Mixed Waste (MW) and Equipment," would miss its November 30, 2000 due date.

Impacts: The schedule was impacted primarily due to technical/mechanical issues (high dose SWDBs, 30-ton crane and 3-ton crane repairs, Safety Analysis Report revision) and needed operational improvements, as well as a reduction in the amount of overtime previously planned in the baseline schedule. Resolution of the higher bottom dose on the SWDBs, although assumed to be resolved as the schedule requires, also has the potential to significantly impact the schedule.

Corrective Action: FH, in concert with RL and Ecology, has prepared a revised schedule that factors in the lost schedule and other schedule related issues. FH is currently on schedule to meet the new commitment date. (*No further status to be provided.*)

External and DOE Issues

Issue: Nothing to report.

Impacts: None at this time.

Corrective Action: None at this time,

DOE Requests:

Issue: Approval by DOE-HQ of a revised Certificate of Compliance associated with the Unirradiated Uranium billet SARP, Revision K, is required to support shipment of uranium billets off-site by January 31, 2006.

Impacts: DOE-HQ approved Revision K of the uranium billet Safety Analysis Report for Packaging (SARP) with a Certificate of Compliance (COC) that allows shipment of only three billet boxes per trailer instead of five boxes per trailer that was analyzed in the revision. Using this COC will increase the billet transportation cost by approximately \$200K.

Corrective Action: DOE-HQ has been informed of the impact, and a COC allowing five billet boxes per trailer, is targeted to be issued January 31, 2001. Per instructions from DOE-HQ, Revision 0 of the original SARP that includes revision K has been issued, and the COC for the five billet boxes per trailer is in process. However, informal communications indicates the January 31, 2001 date for issue of the revised COC may be in jeopardy.

Issue: An opportunity exists for transfer of Pacific Northwest National Laboratory (PNNL) facilities into TP-14, pending resolution of the current DOE-HQ guidance to EM (pipeline suspension). PNNL has funds for FY 2001/2002 S&M identified for transfer to FH, but these funds may no longer be available when the suspension ends.

Impacts: Efficiencies realized through combining these facilities into TP-14 may be jeopardized.

Corrective Action: A Memorandum of Agreement (MOA) to begin the transfer process has been prepared. The MOA is being routed for approval by PNNL, FH and DOE. Anticipate transfer of facilities by June 30, 2001.

BASELINE CHANCE REQUESTS CURRENTLY IN PROCESS (\$000)

Project Change Number	Date Origin.	BCR TITLE	Y01 Cost Impact \$000	S	C	H	T	E	C	H	Date to FH CCB	FH CCB APR'VD	L APR'VD	Current Status
FSP-2000-002	11/2/99	Mark-42 Project Completion	\$304				X				04/05/00			Additional funding requested
FSP-2000-072	7/27/00	MYWP Submittal (Phase I)	(\$37,767)	X			X				08/25/00	08/31/00	12/27/00	
FH-2000-001	9/12/00	Base Ops Reduction for PHMC Projects	(\$2,575)				X				10/24/00	10/24/00	12/28/00	
FH-2000-002	9/25/00	FY2001 Fee Reduction to 90%	(\$413)								10/24/00	10/24/00	12/28/00	
FH-2000-003	9/25/00	FY2001 Addition of High Priority Workscope	\$14,951				X				10/24/00	10/24/00	12/28/00	
FSP-2001-001	10/9/00	Baseline Adjustment to TP08	(\$496)					X						Draft Prepared
FSP-2001-007	10/31/00	Uranium Disposition Project	\$371				X				11/7/00	11/17/00	12/28/00	In Revision
FSP-2001-011	11/14/00	Design Change - 324 LWHS	\$0				X							Pending RL Review
FSP-2001-012	11/21/00	Admin. Change to RL-TP08 Milestone Data	\$0								12/18/00	12/28/00		
FSP-2001-015R1	11/30/00	Add FY2001 Workscope to RCP Baselin	\$2,646					X						Pending Project Review
FSP-2001-023	12/20/00	324 Building SAR Revision	\$0	X			X							Draft Prepared
AWA	11/2/00	324 SAR	\$56				X				11/3/00	11/31/00	11/3/00	BCR #FSP-2001-023
AWA	12/15/00	300 Area Accelerated Cleanup	\$50	X			X				12/18/00	12/27/00	11/30/00	BCR#FSP-2001-015
AWA	1/2/01	327 Backflow Preventers	\$20	X			X				1/3/01	1/12/01	N/A	BCR#FSP-2001-015

KEY INTEGRATION ACTIVITIES

NFDI Support to DOE Complex — DOE-HQ has provided RL \$350,000 for NFDI activities during the first half of FY 2001.

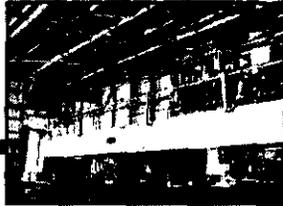
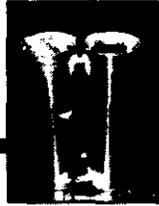
324 SNF Project Savings — In FY 2000, the 324 Building B Cell project, along with the Spent Nuclear Fuel Project (SNFP), developed an alternative plan for the fuel removal activity. Agreement to use a longer inner canister for the fuel permits greater end-shielding and allows hands-on welding and testing in the Cask Handling Area, rather than the more expensive remote effort in B Cell. The Programmatic Agreement that outlines the responsibilities and general items for this fuel transfer was approved by both RCP and SNFP. The 200 Area Interim Storage Area Acceptance Criteria (HNF-4894) has been approved by RCP and SNFP.

EM-50 Support — With support from EM-50, AEA Technology completed two final reports regarding future RCP deactivation tasks: (1) *Option Study for Inspection, Sampling and Remediation for Tank T-105 in the HLW Vault in Building at Hanford*; and (2) *Options Study for B Cell HVAC Duct Remediation*. Both of these reports summarize the work accomplished by AEA in FY2000. EM-50 plans to provide \$450K in FY 2001 as partial funding to continue work on these two tasks, as well as on a new proposal involving acquisition and deployment of a more robust manipulator arm for 324 hot cell deactivation. Negotiations for additional leveraged funds are ongoing.

New Hanford-Rocky Flats-Savannah River Joint Deactivation Proposal — Through involvement with NFDI, Hanford, Rocky Flats, and Savannah River submitted a joint proposal focused on demonstration and deployment of large equipment size reduction systems. DOE-HQ/EM-50 plans to announce the selection of the winning proposals by the end of January 2001.

Participation in West Valley Demonstration Project — In September 2000, RCP issued a letter of support to RL to participate as a "non-host deployment site" in a proposal led by PNNL and West Valley (NY). The West Valley Demonstration Project is deactivating hot cell facilities with similar decontamination and decommissioning challenges to RCP facilities. The project would fund FH to participate on an Integrated Contractor Team (ICT). The ICT will influence the identification and selection of technologies for demonstration. Based on successful demonstration at West Valley, FH would be considering the best technologies for use at RCP. Nine proposals from throughout the DOE-Complex were submitted in response to EM-50's Large Scale Demonstration and Deployment Program (LSDDP) call for proposals. As noted above, EM-50 plans to announce the winning proposals by the end of January 2001.

Coordination With the 324 B Cell Cybernetix Procurement Project Team — PNNL staff have begun interfacing on a regular basis with the 324 Building staff regarding dealings with Cybernetix. Both companies have current contracts with Cybernetix. A PNNL staff member is now attending the B Cell conference calls with Cybernetix, and lessons-learned meetings are being held with PNNL and RCP. Both robotic systems are scheduled for shipment from France to Hanford in the spring of 2001.



Section D

Spent Nuclear Fuel

PROJECT MANAGERS

P. G. Loscoe, RL
(509) 373-7465

J.H. Wicks Jr., FH
(509) 373-9372

SUMMARY

The Spent Nuclear Fuel (SNF) mission consists of the Spent Nuclear Fuel Project (SNFP) 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 does not start until FY 2004.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of December 31, 2000. All other information is as of January 26, 2001.

Fiscal year-to-date milestone performance (EA, HQ, and RL) showed that three out of four milestones were completed late and one milestone is overdue.

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

NOTABLE ACCOMPLISHMENTS

Canister Storage Building (CSB) Activities — Completed installation and testing of CSB ventilation American Society of Mechanical Engineers (ASME) Code N509 compliant back draft dampers on January 12, 2001 ahead of schedule.

Spent Nuclear Fuel Project organization — Completed initial demobilization of startup phase project team. Will continue to draw down existing staff, improve skill mix, train increase in staff, and meet client expectations and FH strategic goals. Assembled construction project team under James Crocker and commenced construction activities in K East.

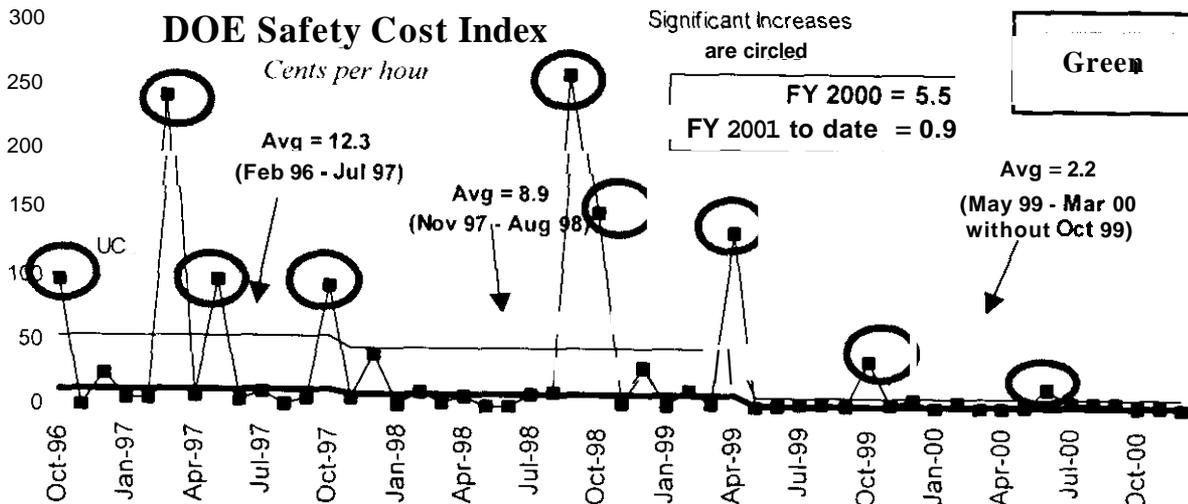
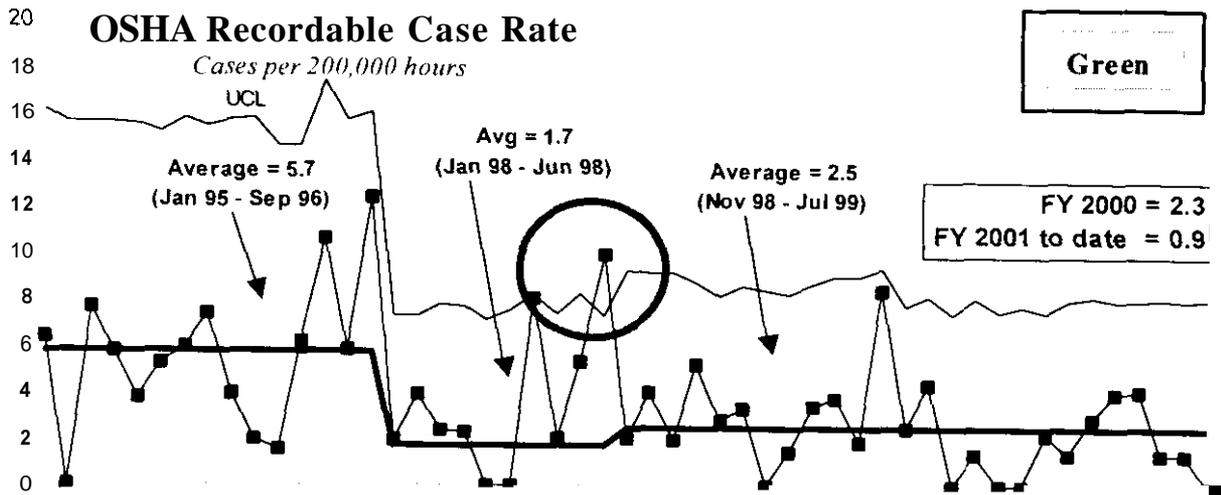
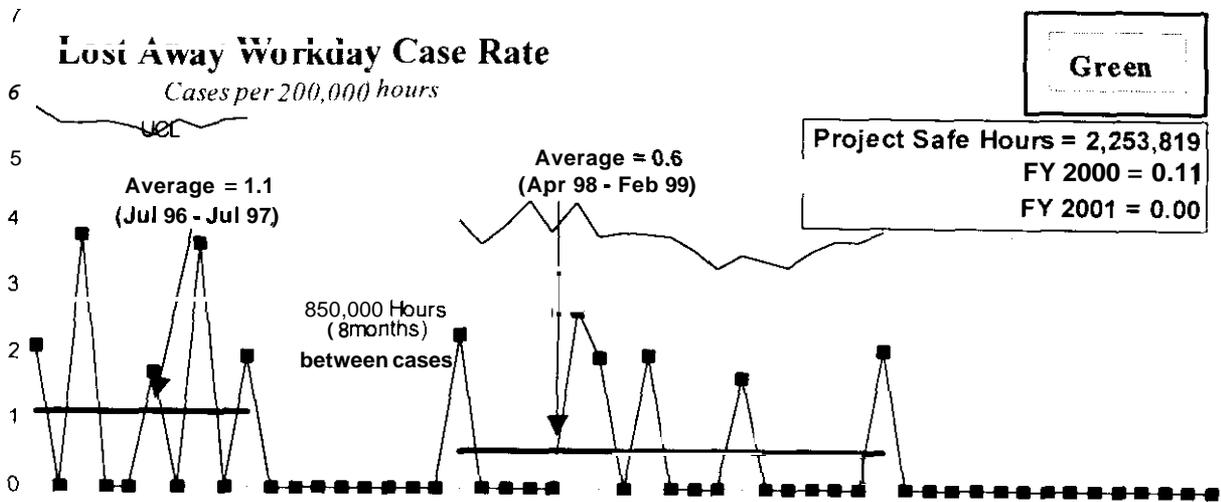
Fuel Movement Activities — Completed loading of an additional six multi-canister overpack (MCO) fuel storage baskets. Completed loading these baskets into the second MCO. Shipment of the second MCO is planned for the week of January 29. Initiated unrestricted operations in Bay 1 at the Cold Vacuum Drying (CVD) Facility.

MCO Production Rate Improvement Activities — Identified funding for upgrades to K West to increase production activities. Commenced project delivery work to procure and install process improvements into K West Basin.

SAFETY

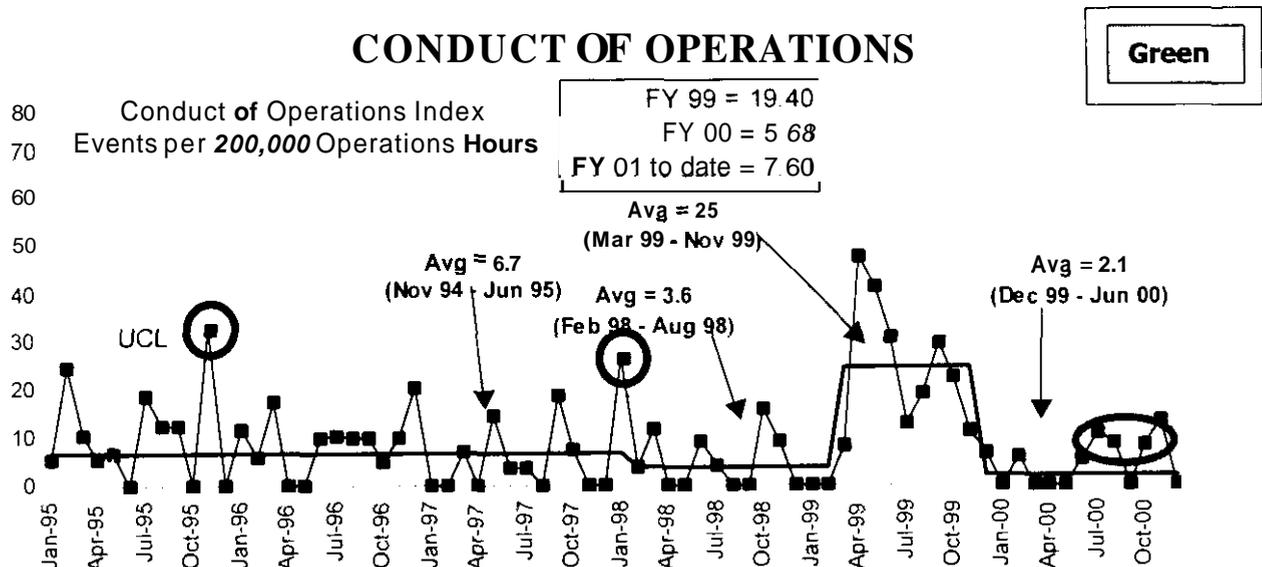
The project achieved over 2.2 million safe work hours. No Lost Away Workday Cases have been reported in the last fourteen months.

SNF OSHA Recordable Case Rate continues to improve, currently at FH goal level. There has been a significant improvement in Lost/Restricted workday case rate.



ISMS STATUS

Nothing to report at this time.



The increase in the number of events for FY 2000 is indicative of the SNF Project transition from construction and testing to operations. During the period, the project completed two new nuclear facilities and refurbished one existing facility. All three of these nuclear facilities were thoroughly tested and went through several Operational Readiness Reviews prior to the commencement of operations. As a result of the knowledge gained during the transition to operations, many actions have been taken and are in progress to improve and monitor the conduct of operations at all four SNF Project facilities as the project safely moves into a more focused and efficient operation.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Green

Alternate Fuel Transfer Strategy (AFTS) — The AFTS will move fuel from the K East (KE) Basin to the K West (KW) Basin for processing in lieu of processing fuel in the KE Basin as currently baselined. This strategy will greatly reduce worker radiation exposure (physical), safety risks, and increase the confidence level that the life cycle cost and schedule objectives can be achieved. This strategy will reduce the complexity of the process and the safety envelope.

- A Baseline Change Request was submitted to RL on November 29, 2000, for the AFTS
- Need decision from DOE prior to point of no return on baseline spending.

Green

Opportunities for Improvement

Multi-Canister Overpack (MCO) Production Rate Improvements — The Spent Nuclear Fuel Project is currently analyzing the reduction of fuel processing, loading, and drying times in an effort to meet and improve the baseline schedule for MCO processing.

- Twenty-four hour/seven days a week operations at K West Basin scheduled to start July 2001 (baseline originally planned for September 1, 2001).
- Two (8x9) shifts scheduled to start mid February 2001.

UPCOMING ACTIVITIES

- Shipment of the second MCO is planned for the week of January 29.
- Continue MCO shipments through FY 2001.
- Move K West Basin to two (2) shifts a day (8x9s) February 2001
- Complete definitive design for KE Integrated Water Treatment System (IWTS)/Sludge loadout system by April 2001.
- Submit Annual Debris Report to U. S. Department of Ecology and Environmental Protection Agency (EPA) in May 2001.
- Initiate KW Basin spent nuclear fuel canister cleaning operations August 2001.
- Move K West Basin to 3 shifts a day/7 days a week July 2001.

MILESTONE ACHIEVEMENT

Green

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	1	0	0	0	0	1
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	2	1	0	1	0	4
Total Project	0	0	3	1	0	1	0	5

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

FY 2001 Tri-Party Agreement / EA Milestones as of January 26, 2001

Number	Milestone Title	Status
M-34-16 (S00-01-900)	"Initiate Removal of K West Basin Spent Nuclear Fuel"	Due 11/30/00 - Completed one week late.
M-34-06-T01 (S04-99-521)	"Initiate K West Basin Spent Nuclear Fuel Canister Cleaning Operations"	Due 12/31/00 - Forecast late, August 31, 2001. Yellow
M-34-05-T01 (S04-01-515)	"Submit DOE Approved Report Debris to Ecology/EPA"	Due 05/31/2001 - On schedule.

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

Overdue - 1

S04-99-521	RL	Start K West Canister Cleaning Operations	12/31/00	8/31/01
------------	----	---	----------	---------

1.3.1

Cause: Suspended design last summer to simplify system and reduce costs. SNF Project made a project management decision to defer work to FY 2001 and focus on near-term critical path items.

Impact: No impact to any other SNF Project baseline schedule activities or TPA/DNFSB milestones.

Corrective Action: Currently in design and on schedule; to be started by 8/31/01.

Forecast Late - 0

FY 2002 Tri-Party Agreement / EA Milestones

Number	Milestone Title	status
M-34-14B-T01 (S06-97-012)	"Complete KE Basin Cask Facility Mods"	Due 02/28/2002 On Schedule
M-34-12 (S04-97-621)	"Complete Construction of K East Basin Integrated Water Treatment System (IWTS) to Support Spent Nuclear Fuel Removal"	Due 03/31/2002 On Schedule
M-34-13B-T01 (S04-98-356)	"Complete Construction & Installation of K East Basin Spent Nuclear Fuel Retrieval System (FRS)"	Due 03/31/2002 On Schedule

DNFSB Commitments

Nothing to report at this time.

PERFORMANCE OBJECTIVE

Move Fuel Away from the River

Expectation: Remove spent fuel from K Basins

- Move first MCO of SNF from KW Basin and transport to the CVDF for processing by December 7, 2000 (TPA M34-16)
 - Completed on schedule
- Move 116 Metric Tons Heavy Metal from K West Basin by end of FY 2001
 - Status: On schedule

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



		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS WMOI	Spent Nuclear	\$ 31,477	\$ 31,270	\$ 44,620	\$ (206)	-1%	\$ (13,349)	-43%	\$ 189,762	\$ 189,762	
WBS 13	Fuel Project										
Total		\$ 31,477	\$ 31,270	\$ 44,620	\$ (206)	-1%	\$ (13,349)	-43%	\$ 189,762	\$ 189,762	

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM).

Note: Above data includes RL contract for Steam.

FY TO DATE SCHEDULE / COST PERFORMANCE

Schedule variance is within approved threshold.

The unfavorable cost variance of \$13.3 million (43 percent) is due to additional facility start up and engineering required to resolve first-of-a-kind equipment issues at K Basins and the Cold Vacuum Drying Facility and subsequent extension of the Operational Readiness Review process. A staff demobilization plan will be implemented to bring costs in line with the baseline.

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

Schedule Variance Analysis: (-\$0.2M)

Spent Nuclear Fuel Project — 1.3.1/ WMO1

Description /Cause: None.

Impact: None.

Corrective Action: None.

Cost Variance Analysis: (-\$13.3M)

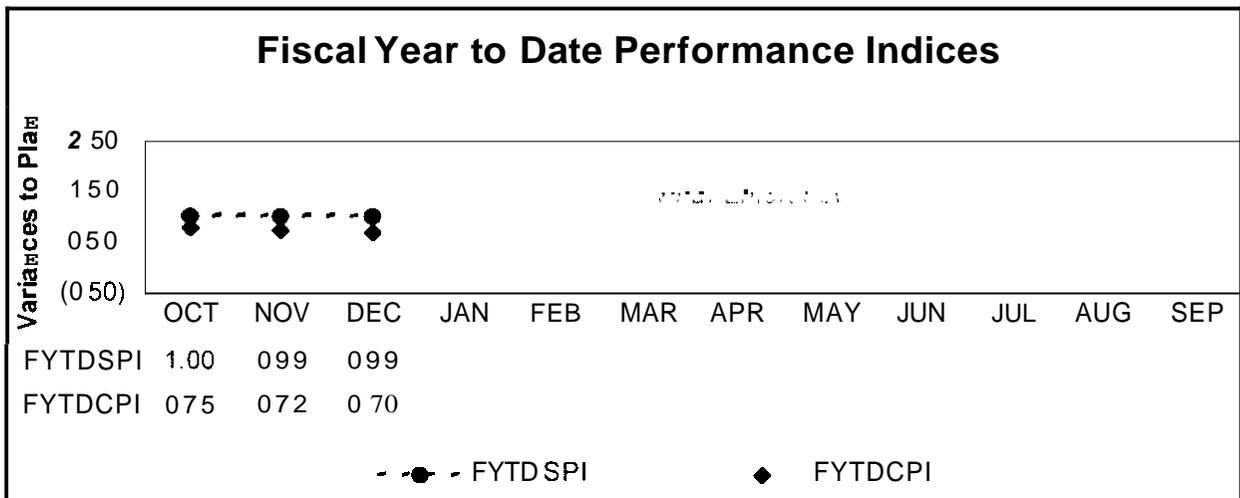
Spent Nuclear Fuel Project — 1.3.1/WMO1

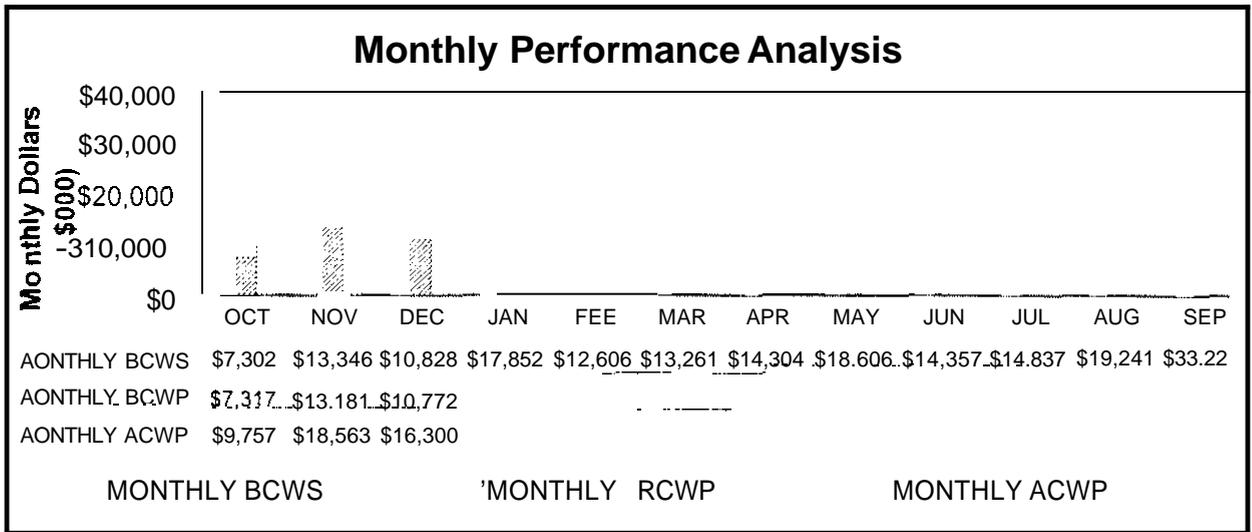
Description/Cause: The unfavorable cost variance was due to additional startup and engineering required to resolve first-of-a-kind equipment issues at the K Basins and CVD facility, and subsequent extension of the Operational Readiness Review process.

Impact: Costs will exceed plan without taking corrective action described below.

Corrective Action: A staff demobilization plan has been developed to bring costs in line with the baseline. The demobilization plan will be initiated following the start of fuel movement.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





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

	Project Completion *			Post 2006 *			Line Items		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The River									
13 Spent Nuclear Fuel									
WMO1 Operating									
Line Item	\$ 188071	5 183400	\$ 4,671				\$ 16	5 16	\$ -
Total Spent Nuclear Fuel Operating	\$ 188,071	\$ 183,400	\$ 4,671				\$ 16	\$ 16	\$ -
Total Spent Nuclear Fuel Line Item							\$ 16	\$ 16	\$ -

Control Point

ISSUES

Technical Issues

Issue: Nothing to report at this time.

Impacts: None.

Corrective Action: None at this time.

Regulatory Issues

Issue: CSB Operations — The Washington State Department of Health (WDOH) agreed to interim operating conditions that will allow the CSB to receive spent nuclear fuel prior to replacement of two backdraft dampers on the main ventilation exhaust system that do not meet the American Society of Mechanical Engineers (ASME) N509 code.

Impacts: WDOH also agreed to a number of deviations with stipulated conditions from the N509 code for operation of the CSB.

Corrective Action: The CSB backdraft dampers were successfully replaced and tested on January 12, 2001, which is ahead of the February 13, 2001 deadline.

Issue: KW Basin Canister Cleaning System — The EPA disapproved the request to extend the Tri-Party Agreement target date for the KW Basin canister cleaning system.

Impacts: The target date of December 31, 2000, was missed.

Corrective Action: The canister cleaning system will be operational by August 31, 2001, without impact to operations or other Tri-Party Agreement milestones. *(No further status to be provided)*

Issue: Milestone Status — The Tri-Party Agreement milestone M-34-16, "Initiate Removal of K West Basin Spent Nuclear Fuel" was not met.

Impacts: The due date was November 30, 2000; the first fuel was removed from the KW Basin on December 7, 2000.

Corrective Action: The EPA intends to use its enforcement discretion on this issue. *(No further status to be provided.)*

External and DOE Issues and DOE Requests

Issue: Nothing to report.

Impacts: None at this time.

Corrective Action: None at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

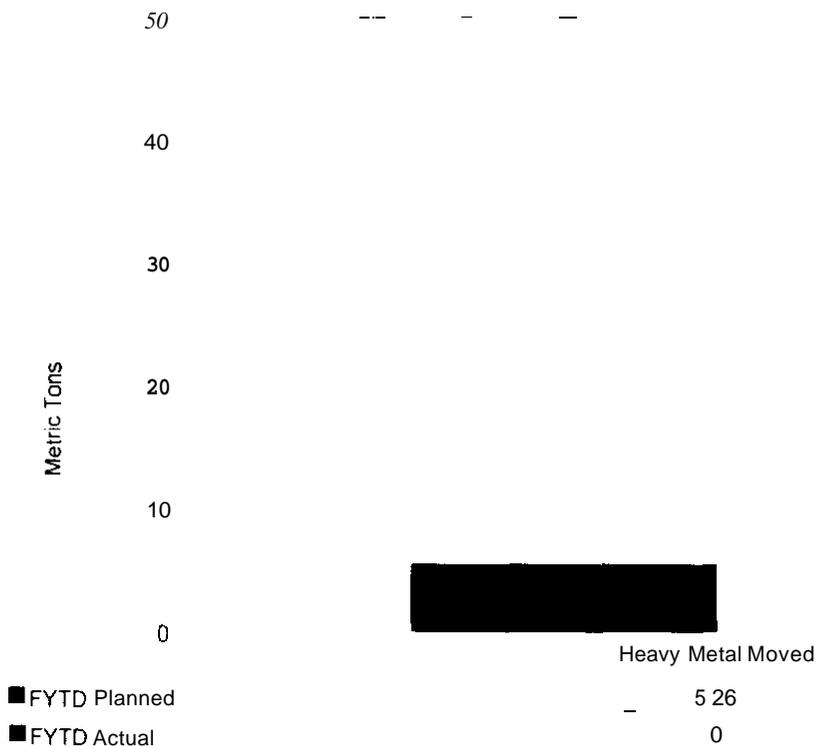
PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	COST IMPACT \$000	S	T	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
				C	E				
				H	C				
				Y	H				
SNF-2001-003	11/13/00	SNF Alternate Fuel Transfer Strategy	N	Y	Y	12/6/00	12/6/00		Appv'd by CCE Conditionally on close of action items
SNF-2001-004	11/14/00	WM02/CP02 Revision Planning Basis - Continuing CSB Operations	N	Y	N	1/3/01	113101		Submitted to RL for final appr'vl
SNF-2001-009	12/28/00	FY 2001 Fee Reduction to 90% (FH-2001-002)	-1030	Y	Y	12/28/00	12128100		Apprv'd RL signature not req'd
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time							

KEY INTEGRATION ACTIVITIES

- SNF final disposition interface activities, including Office of Civilian Radiation Waste Management (OCRWM) Quality Assurance Program implementation, are ongoing with the National SNF Program.
- The SNF Project and Waste Management Project continued preparations for K Basins' sludge removal and Shippingport (PA) Pressurized Water Reactor Core 2 SNF removal.
- Neutron Radiography Facility Training Research and Isotope Production General Atomics (TRIGA) and Fast Flux Test Facility (FFTF) SNF relocation planning is ongoing with the FFTF Project.
- The SNF Project and Bechtel Hanford, Inc. worked together on shipping requirements for SNF discovered during upcoming 105F and 105H reactor basins deactivation.

HEAVY METAL MOVED

SNF Moved to Dry Storage as of December 31, 2000



Heavy Metal Moved: Within + / - 10 percent of planned.



Section E

Advanced Reactors Transition

PROJECT MANAGERS

O.A. Farabee, RL
(509) 376-8089

D.B. Klos, FH
(509) 373-3574

SUMMARY

The Advanced Reactors Transition (ART) Program, WBS 1.12.1, PBS RL-TP11, consists of the Nuclear Energy (NE) Legacies and the 309 Building/Plutonium Recycle Test Reactor (PRTR) activities.

NOTE: Cost/Schedule data contained herein is as of December 31, 2000. All other information is as of January 29, 2001 unless otherwise noted.

For the month of December, surveillance and maintenance activities continued on the 309 Building and NE legacies. Closure welds on the Thermal Transient Loop Cold Trap piping were made and inspected. These welds seal the piping and provide an all-welded stainless steel structure for the trap, which contains sodium and sodium oxide. The trap was then secured to a pallet in preparation for shipping it to an offsite treatment/disposal site.

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

NOTABLE ACCOMPLISHMENTS

Surveillance and maintenance activities on 309 Building and NE Legacies continued.

Closure welds on the Thermal Transient Loop Cold Trap piping were made and inspected. These welds seal the piping and provide an all-welded stainless steel structure for the trap, which contains sodium and sodium oxide. The trap was then secured to a pallet in preparation for shipping it to an offsite treatment/disposal site.

SAFETY

Safety data for ART is included in other project reports.

ISMS STATUS

Green

The project continues to work on improvement initiatives that resulted from the ISMS Phase II readiness review. These initiatives include improving the Automated Job Hazard Analysis (AJHA) process and worker involvement in work documentation preparation.

CONDUCT OF OPERATIONS

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

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement are identified at this time.

UPCOMING ACTIVITIES

- Ship Thermal Transient Loop cold trap offsite by March 30, 2001. (Date is dependent on receiving a Department of Transportation exemption on the shipping container.)
- Stabilize the 309 Building / PRTR Fuel Transfer Pit, April 20, 2001.

MILESTONE ACHIEVEMENT

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

MILESTONE EXCEPTION REPORT

<u>Number/WBS Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>forecast Date</u>
-------------------------	------------------------	----------------------	----------------------

Overdue - 0

Forecast Late - 0

PERFORMANCE OBJECTIVES

Nothing to report at this time.

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

Green

By PBS	FYTD									
	BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS TP11 WBS 1 12 Advanced Reactors Transition	\$ 457	\$ 381	5 230	5 (76)	-17%	\$ 151	40%	\$ 1,485	\$ 1,485	
Total	\$ 457	\$ 381	\$ 230	\$ (76)	-17%	\$ 151	40%	\$ 1,485	\$ 1,485	

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) - Project Execution Module (PEM)

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.1 million (17 percent) unfavorable schedule variance was primarily due to longer-than-anticipated work approval for the 309 Building / PRTR Fuel Transfer Pit clean out.

The \$0.2 million (40 percent) favorable cost variance was due to lower-than-anticipated surveillance and maintenance (S&M) costs in the 309 Bldg/PRTR and effective cost performance in the 337B controls and piping scope.

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

Schedule Variance Analysis: (-\$0.1M)

Advanced Reactors Transition — 1.12.1/TP11

Description and Cause: The unfavorable schedule variance was primarily due to the longer-than-anticipated work approval for the 309 Building / PRTR Fuel Transfer Pit cleanout.

Impact: No significant impact.

Corrective Action: Work is expected to accelerate in January.

Cost Variance Analysis: (+\$0.2M)

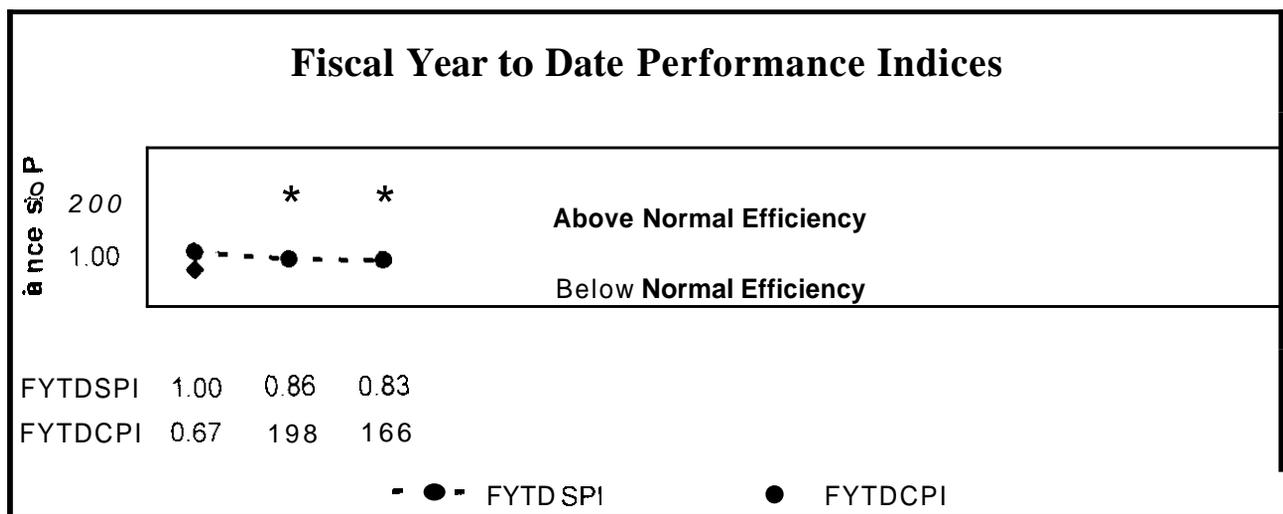
Advanced Reactors Transition — 1.12/TP11

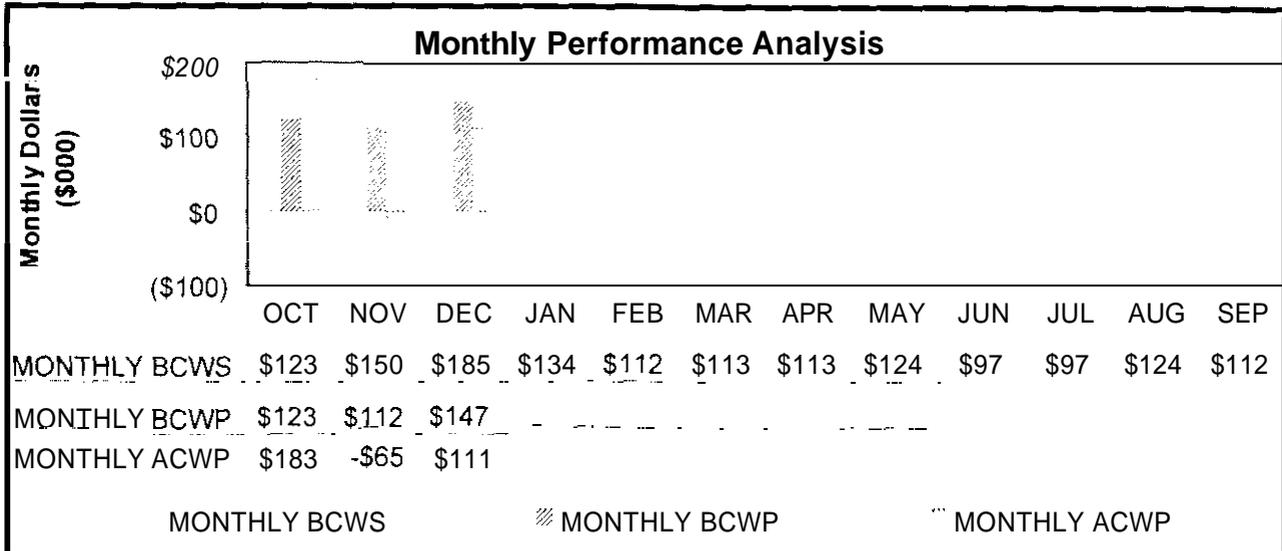
Description and Cause: The favorable cost variance was primarily due to lower-than-anticipated S&M costs in the 309 Bldg./PRTR and effective cost performance in the 337B controls and piping scope.

Impact: Resources will be available for other work.

Corrective Action: Additional scope will be implemented.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





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

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
1.12 Advanced Reactors (EM)				\$ 3,485	\$ 3,485	\$ -			
Total Advanced Reactors Operating				\$ 3,485	\$ 3,485	\$ -			
Total Advanced Reactors Line Item									

* Control Point

ISSUES

Technical, Regulatory, External, and Doe Issues and DOE Requests

Issue: Nothing to report at this time.

Impacts: None.

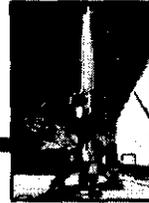
Corrective Action: None at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY01 COST IMPACT \$000	S	E	DATE TO CCB	CCB APRVD	RI APRVD	CURRENT STATUS
ART-2000-001	11/17/00	Increase to Base Operations & Carryover Funding	409	X	X	11/27/00	Date not available	Date not available	Approved
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

KEY INTEGRATION ACTIVITIES

Nothing to report at this time.



Section F

EM-50

Science & Technology

Activities

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	1	0	1
RL	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	2	0	2

MILESTONE EXCEPTION REPORT

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

Overdue - 0

Forecast Late - 0

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



	FYTD									
	BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
Technology Development (EM-50)	\$ 4,952	\$ 4,277	\$ 3,829	\$ (675)	-14%	\$ 448	10%	\$ 19,942	\$ 19,942	
Total	\$ 4,952	\$ 4,277	\$ 3,829	\$ (675)	-14%	\$ 448	10%	\$ 19,942	\$ 19,942	

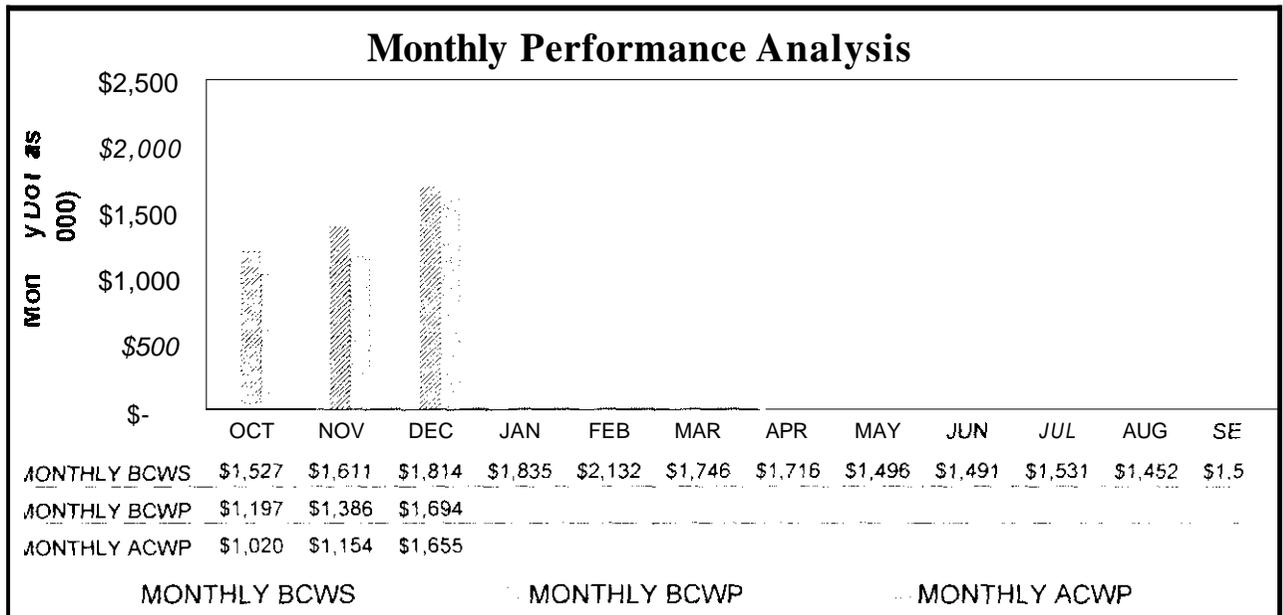
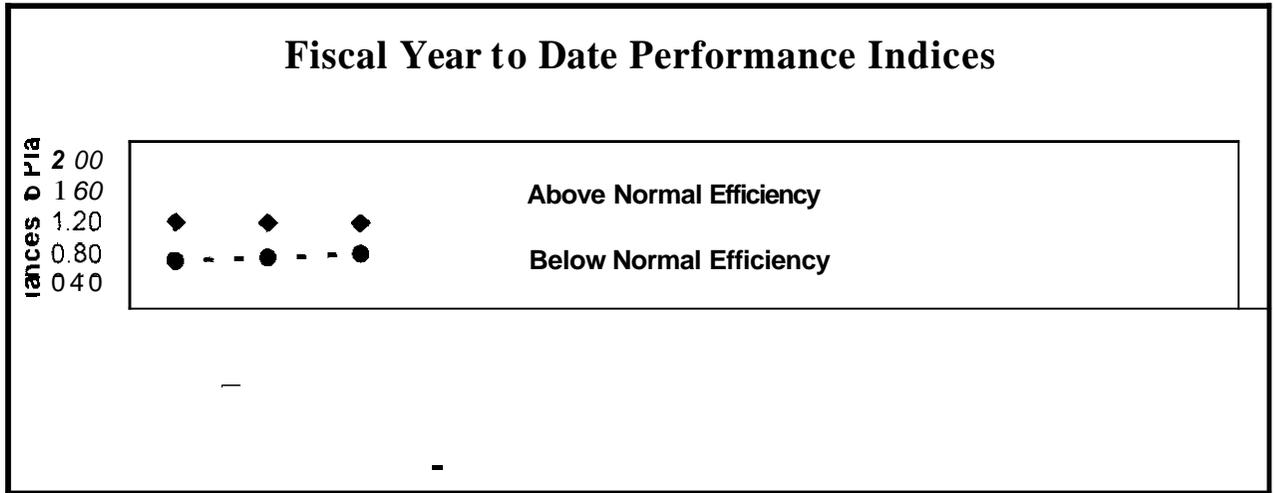
FY TO DATE SCHEDULE / COST PERFORMANCE :

The unfavorable schedule variance of 14 percent is primarily the result of some projects being delayed due to awaiting carryover spending approval, and others delayed awaiting revisions in work scope, funding, or authorizations to work.

The favorable cost variance of 10 percent is mostly due to accrual reversals and costs that have not yet processed through the system for work that was completed. This will be corrected in January.

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

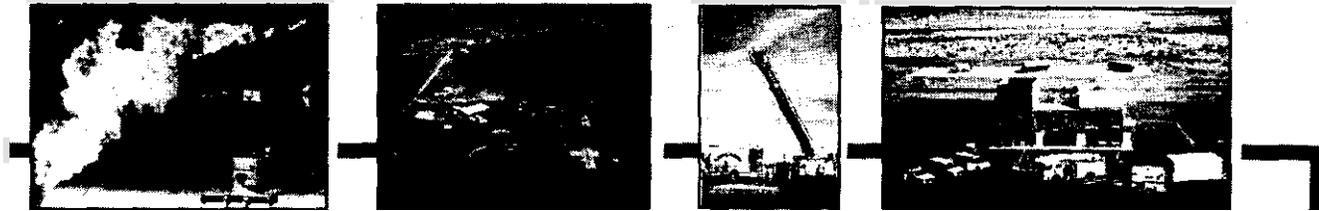
SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





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

PROJECT MANAGERS

P. W. KRUGER, RL
(509) 372-4005

K.A. McGinnis, FH
(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 December 30, 2000. All other information is as of January 21, 2001.

Volpentest HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During December one hundred twenty-one classes were conducted at the Volpentest HAMMER facility, for a total of 2,233 Hanford site student days. Highest attended health and safety classes included Hazardous Waste Operations, MKS-SI Configuration Management Training, Radiation Worker II Requalification, Respiratory Protection, and Medium Risk Electrical Safety training. Overall satisfaction, rated on a scale from one to five based on level one evaluations, for the month of December: Course Content 4.49, Instructor(s) 4.63 and Facility 4.44.

Approximately 25 riggers and rigging supervisors were evaluated at HAMMER's Technical Support Building. Cost savings are being determined for the implementation of evaluations that employ a new HAMMER rigging weight simulator, which was designed by Fluor Hanford Training personnel. This new simulator offers an infinite combination of weight and center of gravity options, which thoroughly challenged each rigger's ability to correctly pick the load. The simulator is portable, and will be used in other crane and rigging classes offered at HAMMER. This was the first time this method was used to ensure and maintain the qualifications of personnel who perform advanced rigging activities. The riggers and supervisors completing this evaluation indicated that this new method was very challenging, and gave high marks for the administration of this evaluation, and the professionalism of FH Training staff performing these evaluations.

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

NOTABLE ACCOMPLISHMENTS

Trained 2,233 Hanford site student days at HAMMER.

Evaluated 25 riggers and rigging supervisors utilizing the new HAMMER rigging weight simulator.

SAFETY / ISMS STATUS / CONDUCT OF OPERATIONS

Nothing to report at this time.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time

UPCOMING ACTIVITIES

- Conduct HAMMER Steering Committee Meeting, April 2001

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	9	0	9
Total Project	0	0	0	0	0	9	0	9

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the first six months of FY 2002 TPA/EA milestones.

Number	Milestone Title	Status

M

REPORT

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

Overdue - 0

FY 2002 Tri-Patty Agreement / EA Milestones		
Number	Milestone Title	Status
	Nothing to report at this time.	
DNFSB Commitments		
	Nothing to report at this time.	

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

Green

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS HM01	Hammer	\$ 1,285	\$ 1,267	\$ 1,232	\$ (18)	-1%	\$ 35	3%	\$ 5,561	\$ 5,561	
WBS 1.9.1											
Total		\$ 1,285	\$ 1,267	\$ 1,232	\$ (18)	-1%	\$ 35	3%	\$ 5,561	\$ 5,561	

Authorized baseline as per the Integrated Planning Accountability. and Budget System (IPABS) – Project Execution Module (PEM).

FY TO DATE SCHEDULE / COST PERFORMANCE :

The \$0.02 million (1 percent) schedule variance is insignificant.

The \$0.04 million (3 percent) favorable cost variance is within established thresholds,

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

Schedule Variance Analysis: (-\$0.0M)

HAMMER – 1.9.1.1/HM01

Description and Cause: The variance is within thresholds.

Impact: None.

Corrective Action: None.

Cost Variance Analysis: (+\$0.0M)

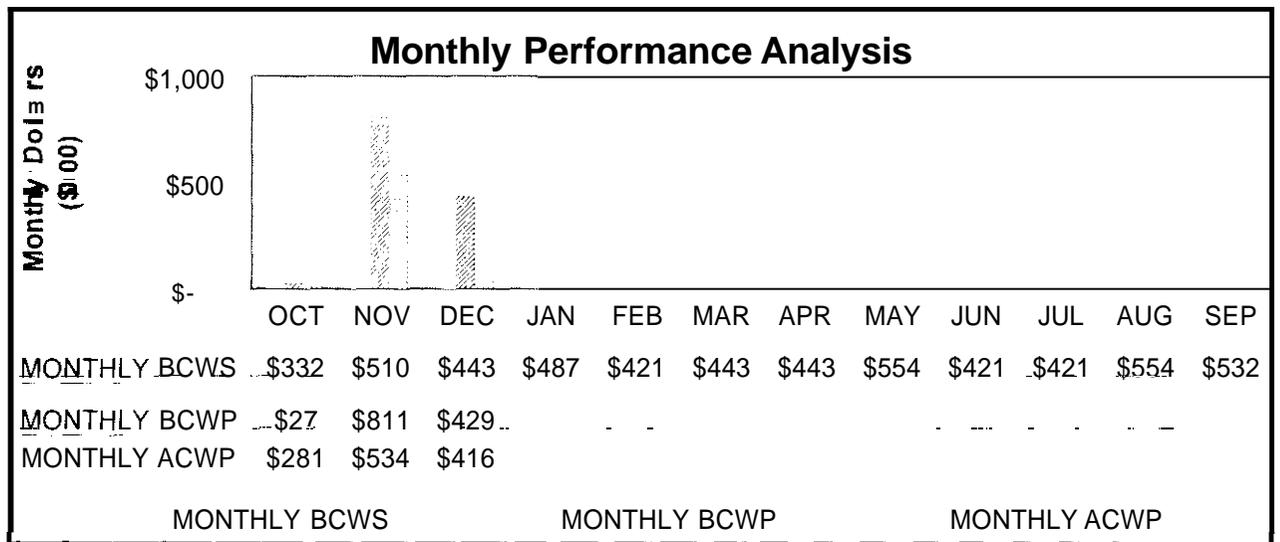
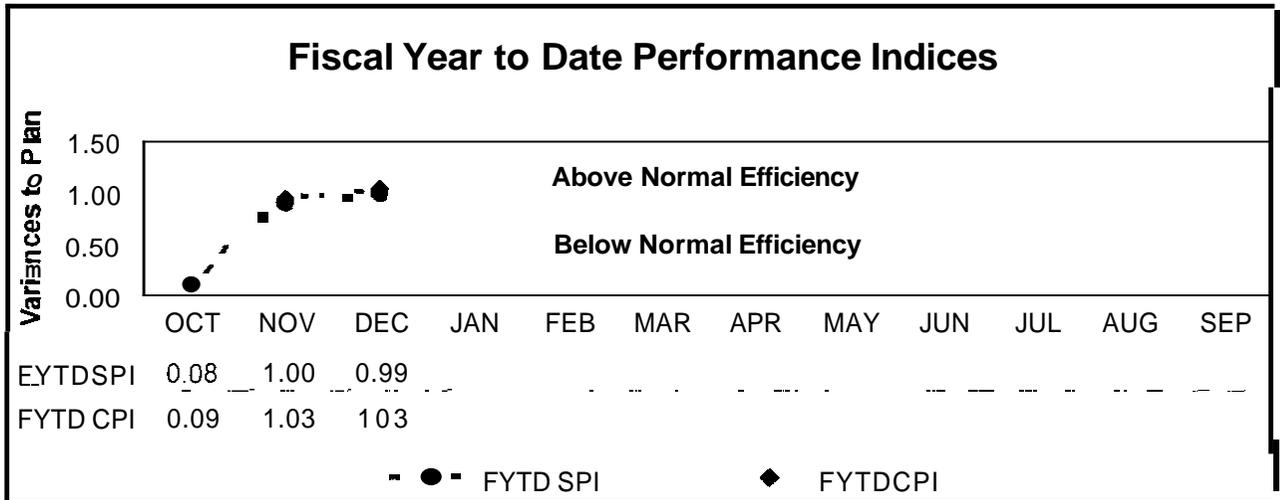
HAMMER – 1.9.1.1/HM01

Description and Cause: The variance is in within thresholds.

Impact: None.

Corrective Action: None.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)



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

	Project Completion *			Post 2006 *			Line Items/Other *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Future									
19 HAMMER HMO1				6,345	5,373	972			
Total Hammer Operating	\$ -	\$ -	\$ -	\$ 6,345	\$ 5,373	\$ 972	\$ -	\$ -	\$ -
Total Hammer Line Item	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

* Control Point

ISSUES

Technical, Regulatory, External, and DOE Issues and DOE Requests

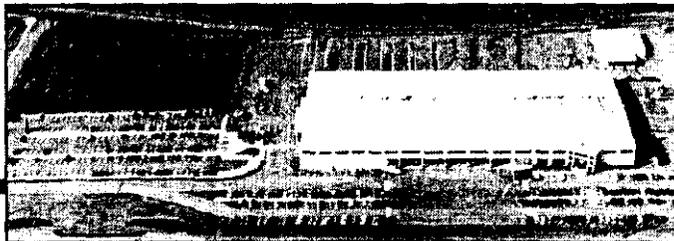
Issue: Nothing to report at this time.

Impacts: None.

Corrective Action: None at this time

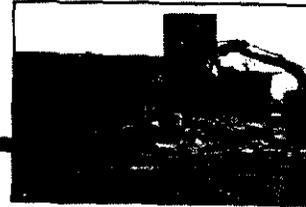
BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COS IMPACT \$000	S	C	H	RL APR'VD	CURRENT STATUS
HMR-2001-001	12/6/00	Incorporate FY 2000 Carryover & Emerging Needs into FY 2001 Baseline	754	X	X	12121100		
HMR-2001-002	1217100	Delete Installation of the TSB Air Conditioning	-95				NA	Project Approved
ADVANCED WORK AUTHORIZATION								
		Nothing to report						



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

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

D.S. Kelly, FH
(509) 376-7334

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 December 31, 2000. All other information is as of January 23, 2001.

Project L-270, "Emergency Services Renovation (200 Area)," renovates and expands the living quarters and dormitory portion (609C) of the 200 Area Fire Station. This project also relocates the Emergency Services Dispatch Center and Shift Supervisors from 609A to the new addition (609C). Construction is continuing with the inside finishing work on the prefabricated metal building addition, which includes the electrical, plumbing, HVAC, room finishes (painting, etc.), and telecommunications. On January 5, 2001 LMSI completed the switchover to the new Dispatch Room in the northeast corner of the new 609C Building addition to allow occupancy by the Hanford Fire Department personnel. The finishing work for the new Dispatch Room is continuing and should be completed in February. Overall the construction is approximately two weeks ahead of the scheduled completion date of April 6, 2001 (RL Milestone LLP-00-410).

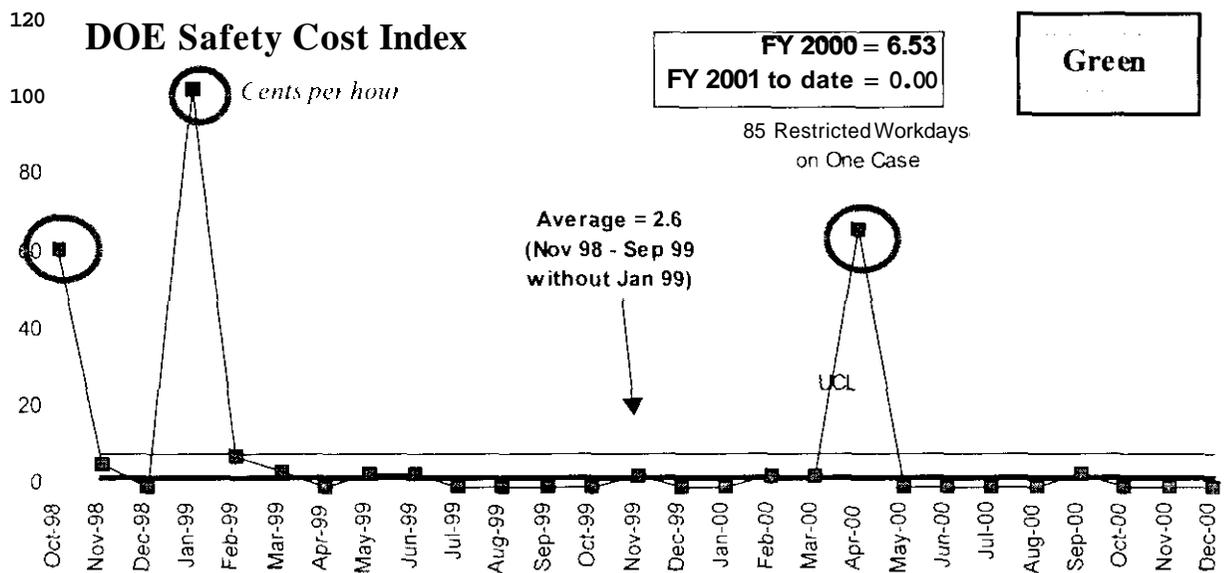
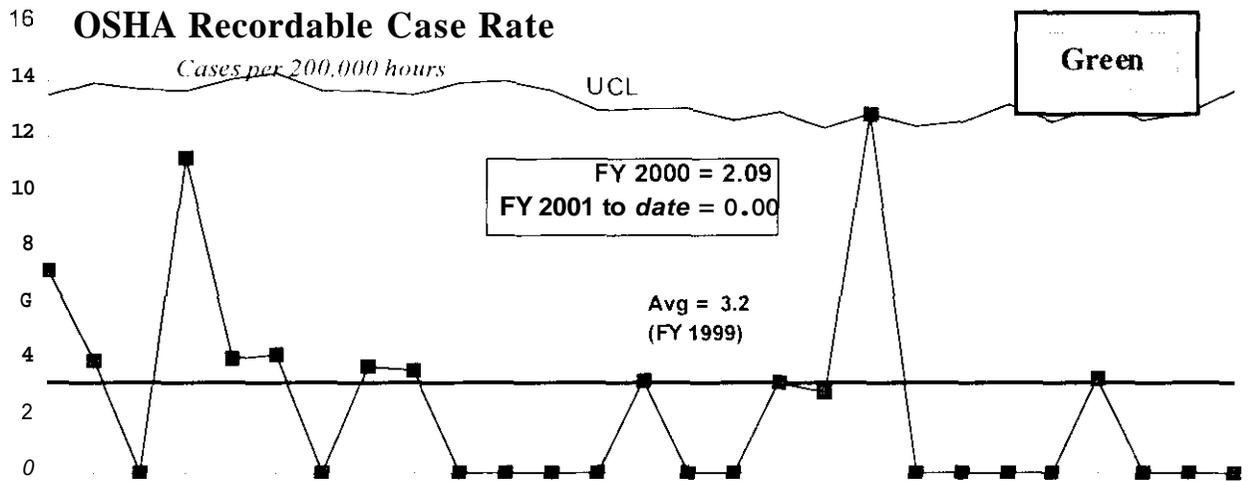
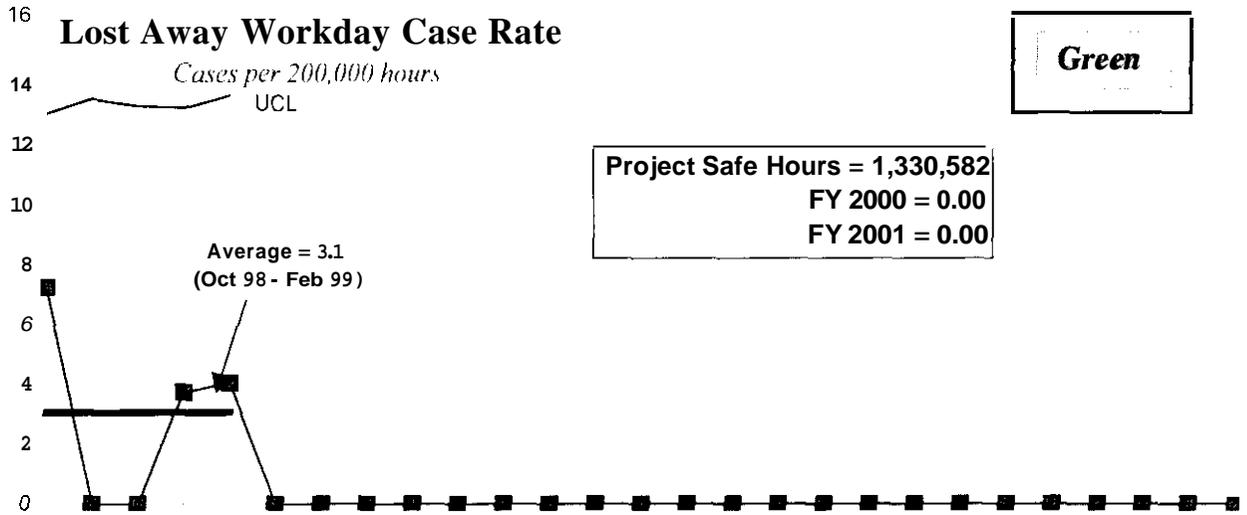
NOTABLE ACCOMPLISHMENTS

Nine of 11 RL milestones scheduled for completion this year are trending to complete ahead of schedule and two are expected to complete on schedule.

Project L-348, "Fire Damaged 222S Septic System (2607-W6) Replacement," repairs/replaces the 222S Septic System severely damaged by the 24 Command Wildland Fire in June of 2000. The 90 percent definitive design package was issued on January 9, 2001 to support completion of the definitive design effort in February.

SAFETY

Landlord has exceeded one and a quarter million project safe hours. In April 2000, there was a significant increase in OSHA Recordable case rate, and in DOE Safety Cost Index due to reclassification of cases and restricted days accumulated. The months after April 2000 have returned to normal..



ISMS STATUS

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.

- Voluntary Protection Program (VPP) application for status was submitted to DOE and the evaluation was conducted November 14 through November 16, 2000. Initial feedback from the evaluation team was extremely positive. Final results from the evaluation are expected in January 2001.

CONDUCT OF OPERATIONS

Nothing to report at this time.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Green

Continued activities to complete the proposed FY 2002 conversion of indirect expenses to direct Environmental Management PBS budgeting. This conversion will support the movement of most infrastructure services into RL PBS, TP-13, Landlord Program. With this conversion we will be able to further optimize infrastructure services by integrating normal maintenance and operations with capital improvement projects.

Opportunities for Improvement

Green

The Landlord Master Plan provides basis of estimates, which will validate the baseline in the MYWP as Phase II planning activities continue.

UPCOMING ACTIVITIES

- Complete Project L-309, "Replace Main Water Lines" in January 2001.
- Complete installation and testing of a chlorine containment system for Project L-303, "200 West Area Chlorine Mitigation" in April 2001. Procurement deficiencies with the vendor has caused the late start of installation and the resulting one month completion date slip from March for this internal milestone.
- Complete Construction for Project L-270, "Emergency Services Renovation," in April 2001.
- Complete Definitive Design for Project L-339, "PFP Water System Isolation – Install Sanitary Water to WRAP," in April 2001.
- Issue Notice of Award for Fixed Price Construction for Project L-298, "Road Resurfacing," in April 2001.

MILESTONE ACHIEVEMENT

Green

TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	0	0	0	0	9	2	0	11
Total Project	0	0	0	0	9	2	0	11

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows. The last milestone table summarizes the First six months of FY 2002 TPA/EA milestones.

Number	Milestone Title	Status

MILESTONE EXCEPTION REPORT

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

Overdue - 0

Forecast Late - 0

FY 2002 Tri-Party Agreement / EA Milestones		
Number	Milestone Title	Status
	Nothing to report at this time.	
DNFSB Commitments		
	Nothing to report at this time.	

Outcome	Performance Goals	Status
Restore the River Corridor for Multiple Uses & transition the Central Plateau	Project L-276, "Emergency Services Equipment Bay Renovation," GPP to renovate and expand the 200 Area Fire Station Equipment Bay Facility (609A).	Task order to prepare Definitive Design (DD) and construction bid package was approved and issued to FFS to start DD on December 5. The DD effort will complete in February 2001 to support award of a fixed price construction contract May 2001.
	Project L-339, "PFP Water System Isolation- Install Sanitary Water to WRAP," GPP to install a water bypass line around PFP to resolve cross contamination issues with the 200 West Area potable water system.	Draft Project Execution Plan/Technical Baseline Document (PEP/TBD) was issued by FFS on December 5 for review. The DD effort is ongoing to support DD completion by April 20, 2001 (RL Milestone LLP-01-530).
	Project L-340, "Install PFP Backflow Preventors" Capital Small Project to install backflow Preventors on the two main potable water lines to PFP to resolve cross contamination issues.	Task Order was issued to FFS on November 9 to initiate DD activities. Draft PEP/TBD was issued on December 5 for review. DD effort is ongoing to complete by March 16, 2001 and to complete construction on an accelerated basis by June 29, 2001 (RL Milestone LLP-01-555).
	Project L-348, "Fire Damaged 222S Septic System (2607-W6) Replacement," Expense Small Project to repair/replace the 222S Septic System severely damaged by the June 2000 fire on the Hanford Site.	FFS was authorized to initiate DD for this project on October 31 to support construction completion by June 29, 2001. The 90 percent DD package was issued on January 9, 2001 to support completion of the definitive design effort in February.
	Project L-270, Emergency Services Renovation," complete renovation of the 200 Area Fire Station.	The main focus at this time is the finishing work in the new Dispatch Area. This area became operational on January 5, 2001.
	Shutdown approximately 20 vacant office facilities and deactivate 20 vacant facilities.	Approximately 80 vacant facilities are in the Surveillance and Maintenance (S&M) status, two have been shutdown, and seven have been deactivated.
	Capital Equipment replacement purchases of a Fire Engine Pumper Truck, Electrical Utilities Truck, and a 33-Ton Crane.	Vendor order was placed on November 15 on the Fire Engine Pumper Truck for delivery in September 2001. Expect to place order with a vendor for the 33-Ton Crane in March 2001. Electrical Utilities Truck procurement (FY2000 funded) was placed with the vendor on August 11 and delivery is scheduled for mid-April 2001.
Put Assets to Work for the Future	Disposition One Well Car and one Auger Drill Truck, and S&M of the 212R rail siding where the majority of the remaining regulated rail cars are staged for future disposition.	The initiation of the disposition of the Auger Truck has been placed on hold pending funding reductions. The disposition of the Tall Well Car has been initiated to support the shipment of the Tall Well Car in March 2001.

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

Green

		FYTD									
By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS TP13	Landlord	\$ 4445	\$ 3940	\$ 3490	\$ (505)	-11%	\$ 451	11%	\$ 20163	\$ 20163	
	WBS 1.5.1										
	Total	\$ 4445	\$ 3940	\$ 3490	\$ (505)	-11%	\$ 451	11%	\$ 20163	\$ 20163	

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM)

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.5 M (11 percent) unfavorable schedule variance is mainly attributed to the Integrated Site Vegetation and Animal Control (ISVAC) program trending behind schedule due to inclement weather conditions which prohibit spraying activities. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

The \$0.5 M (11 percent) favorable cost variance is mainly attributed to Emergency Services carryover work scope in FY 2000, which will be rebaselined in FY 2001. Further information at the PBS level can be found in the following Cost Variance Analysis details.

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

Schedule Variance Analysis: (-\$0.5M)

Landlord – 1.5.1/TP13

Description/Cause: The unfavorable schedule variance is mainly attributed to the Integrated Site Vegetation & Animal Control (ISVAC) program trending behind schedule due to inclement weather conditions which prohibit spraying activities. Also, the Project L-310, "Distribution Water Line," task order has not been submitted.

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

Corrective Action: BCR LPM-2001-002 is in process and should be implemented to incorporate work scope into the FY 2001 baseline by the end of January. Priorities on the Water System are being reviewed to determine the proper work scope to be funded for FY 2001.

Cost Variance Analysis: (+\$0.5M)

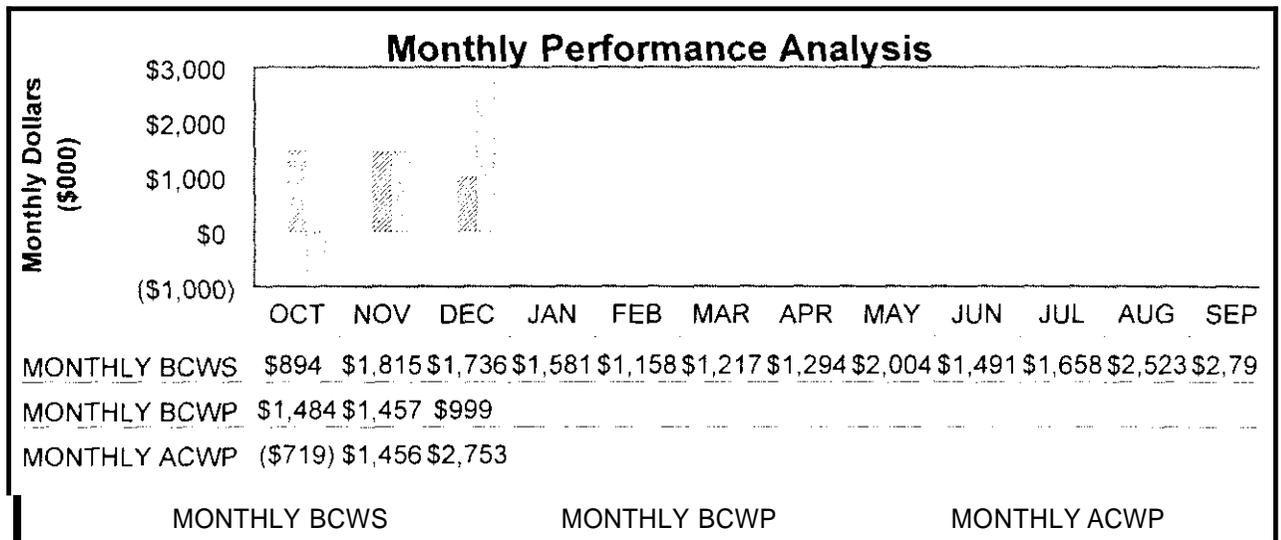
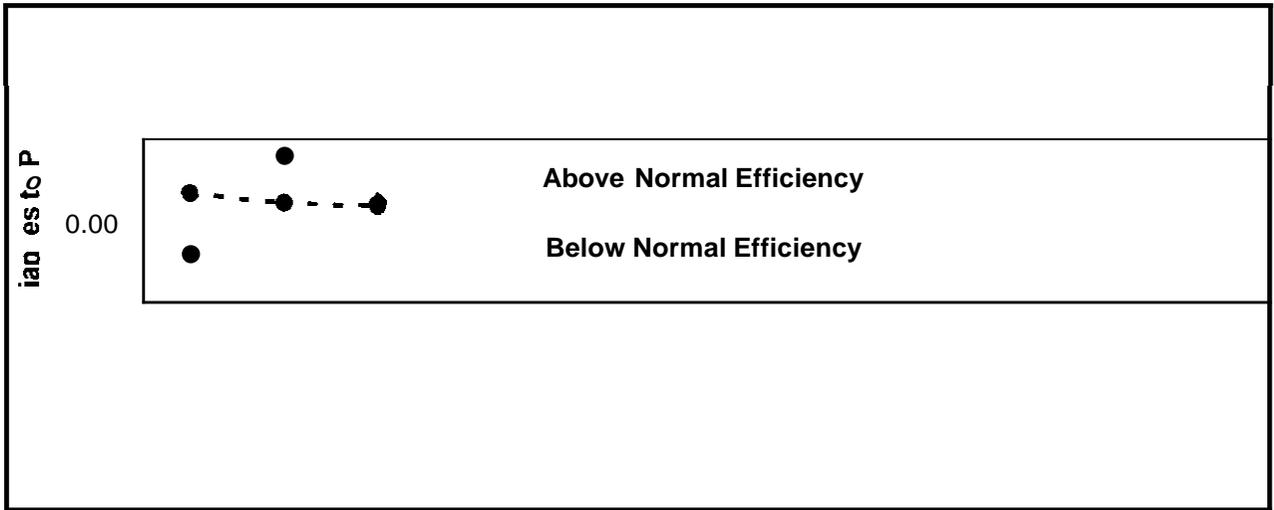
Landlord – 1.5.1/TP-13

Description/Cause: The favorable cost variance is mainly attributed to Emergency Services and ISVAC carryover work scope in FY 2000, which will be rebaselined in FY 2001.

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

Corrective Action: BCR LPM-2001-002 is in process and should be implemented to incorporate work scope into the FY 2001 baseline by the end of January.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)



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

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
Multiple Outcomes									
TP13 Operating				\$ 22.167	\$ 22,724	\$			
1.5 Landlord Line Item									
Total Landlord Operating				\$ 22.167	\$ 22,724	\$ 557			
Total Landlord Line Item									
* Control Point									

ISSUES

Technical, Regulatory, External, and Doe Issues and DOE Requests

Issue: Nothing to report.

Impacts: None at this time.

Corrective Action: None at this time.

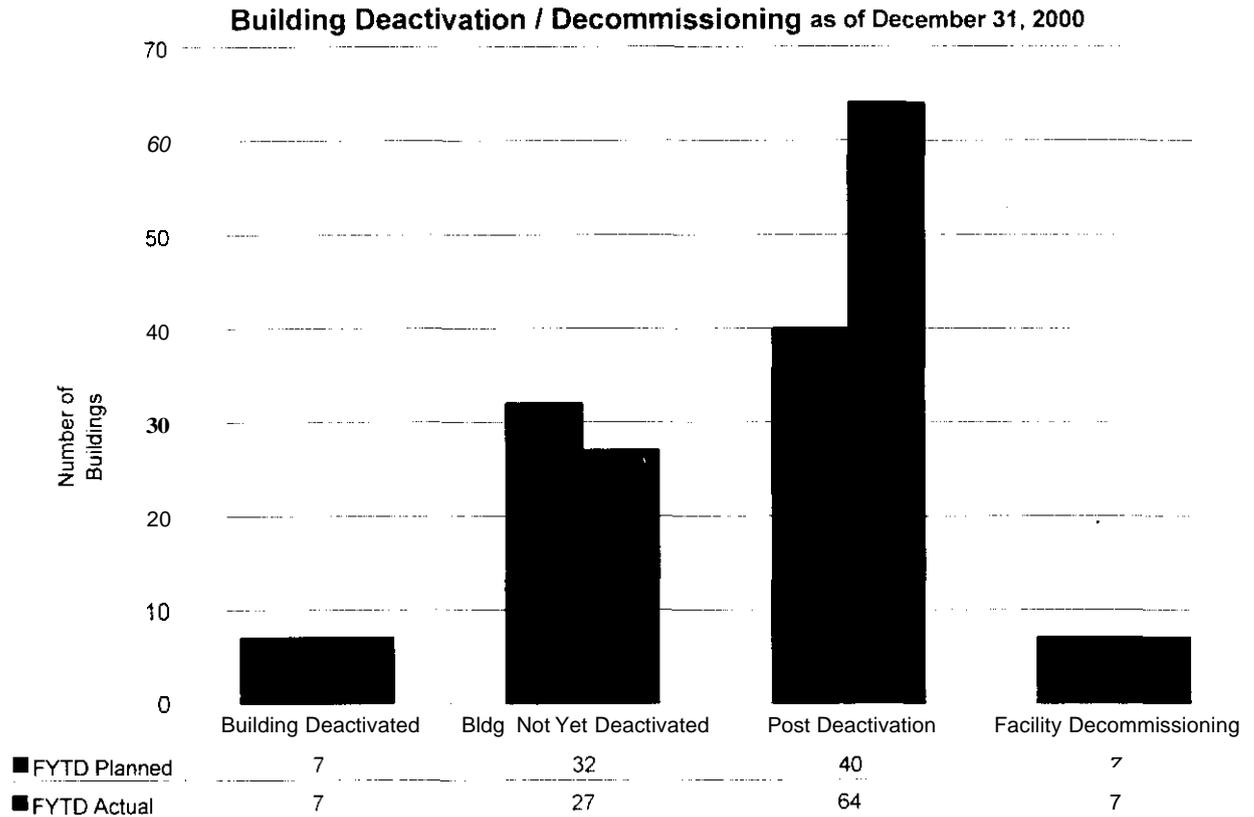
BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	COST IMPACT \$000	S C H	I E C H	DATE TO CCB	CCB APR/VD	RL APR/VD	CURRENT STATUS
FH-2001-002	9/25/00	FY2001 Fee Reduction to 90%	(\$107)						At DOE-RL.
LPM-2001-002	12/21/00	Add One RL Milestone and Modify the Date of Two Others		X					At FH for signature.
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

KEY INTEGRATION ACTIVITIES

- Developed a Long Range Infrastructure Plan, which identifies critical infrastructure projects needed to support the Site's mission needs. Planning and integration meetings were held with Site programs to fully understand and integrate their requirements. The information contained in the Long Range Infrastructure Plan was later requested by RL in the form of a Schedule Options Study for Site Infrastructure, and DOE-HQ in the form of an Infrastructure Restoration Plan.
- Supported the Office of Environmental Management (EM) in reviewing infrastructure budget and policy issues as part of the Infrastructure Life Extension Campaign. The effort might result in an addendum to EM's FY 2002 budget request to the Office of Management and Budget.

BUILDING DEACTIVATION / FACILITY DECOMMISSIONING - CLEANUPS



Buildings Deactivated: Building deactivation work is on schedule.

Buildings Not Yet Deactivated: These totals represent a queue, with the "planned" representing the inventory remaining at year end. This is dependent on transfers from other projects and fluctuates with work scope/staffing. The contract extension and work force reductions will impact this number before year end. Due to constant project changes, comparisons from period to period are not meaningful.

Post Deactivation Monitoring: These totals also represent a queue, with "planned" reflecting total being what is expected at the end of the year. The current difference is due largely to the presence of several facilities in the queue that already met the deactivation criteria.

Facility Decommissioning: Fluor Hanford was able to decommission or remove all facilities planned for the first quarter. However, a suspension of surplus/excess sales activity may prevent timely disposal of facilities by Fluor Hanford for the next several months.



Section I

support

PROJECT MANAGERS

<i>SP&I</i>	W.W. Ballard, RL	(509) 376-6657
	G.J. McCleary, FH	(509) 372-8385
<i>SSE</i>	W.W. Ballard, RL	(509) 376-6657
	M.L. Grygiel, FH	(509) 372-2983
<i>ECP</i>	S.H. Wisness, RL	(509) 373-9337
	J.W. Hales, FH	(509) 376-4069
<i>PSRP</i>	S.H. Wisness, RL	(509) 373-9337
	R.L. Dirkes, PNNL	(509) 376-8177

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)

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of December 31, 2000. All other information is as of January 17, 2001 unless otherwise noted.

Project Controls

FY 2002 IPABS Update — The limited update to the DOE-HQ Integrated Planning, Accountability and Budget System (IPABS) for the FY 2002 budget request to the new Bush administration is under way. The Planning Module (baseline data) was sent on January 12, 2001, and the Budget Module (FY 2002 Budget Authority Request) was sent on January 19, 2001. Both submittals will be provided in the new Project Baseline Summary (PBS) structure. Project Control coordinated the electronic batch input of baseline cost, milestone, narrative and metric data to the IPABS, performing specific collection, collation, formatting, and electronic transfer of baseline cost and milestone information. This effort was performed to populate the new PBSs in the DOE-HQ system in support of the outcome-based WBS.

DOE-HQ has additionally indicated that it anticipates requiring another limited update (not currently planned for in FH's baseline) after direction is received from the new administration, but prior to the planned March 15 and April 15, 2001, updates. The impact of this additional, unplanned requirement has not yet been determined.

Environmental Management (EM) Liabilities — Final EM Liabilities were sent on January 22, 2001. The data shows the changes in lifecycle costs due to inflation and work scope adjustments from the lifecycle planning costs input into IPABS in April for the FY 2001 Phase II MYWP. These numbers will then be compared to the dollars provided in the baseline change proposal submitted to Headquarters in support of the new WBS/PBS structure.

Integrated Priority List Module (IPLM) — In accordance with the new FH contract, modifications are being made to the IPLM to align key sort indicators to Level 4 of the new WBS structure. Also, as requested by DOE-HQ, a matrix is being developed to provide a DOE "Peer Review" cut of the data.

Near-term deliverables due on January 31, 2001 include an IPL of funding for FY 2001-2008 (for the FY 2003 budget submittal), including narratives discussing associated benefits, impact statements and regulatory drivers. This information is being prepared for the public meetings with stakeholders, Tribes, and regulators scheduled in March.

Support for RL Integrated Science and Technology (S&T) Plan — Project Controls and Technology Management continued support to PNNL for developing a Site perspective on major challenges impacting the cleanup mission. A working session was held on December 13, 2000, with RL and the Regulators to review the activity. A draft of the Site plan remains targeted for issue by the end of January 2001.

FY 2001 MYWP and AWP Updates for Project Controls — With the approval of Project Controls' FY 2001 "bridge" baseline change request in December, the Multi-Year Work Plan (MYWP) and two Annual Work Plans (AWPs) were also approved, establishing the FY 2001 baseline.

Performance Management Meetings (PMM) — Due to priorities associated with the FH contract negotiations, none of the PMMs scheduled in December were conducted. January meetings addressing "The River," and "The Plateau" were held January 3 and 4, 2001. The PMM scheduled to address Fast Flux Test Facility status, however, was rescheduled from January 10, 2001, to mid-February, by which time a decision regarding the Facility's continued activation should be announced via Record of Decision by the Secretary of Energy.

Also, efforts have begun within Project Controls (with input from the Projects) to review the processes and formats employed in the preparation of the PMMs and the monthly Environmental Management Performance Report. Both sets of documentation contain almost identical information, and it is believed certain revisions can be made that will facilitate and streamline the production of the materials, while ensuring continuity and accuracy of the information reported.

Environmental Management Performance Report (EMPR) — The December EMPR was delivered on schedule on December 12, 2000, and in bound copy on December 20, 2000. The final-draft January EMPR was delivered for approval on January 9, 2001, and final bound-copy delivery was made on January 17, 2001.

Business Management Oversight Process (BMOP) Status — Due to other priorities within the RL Analysis and Evaluation Division, a January 2001 release date is anticipated for the reissue of the final FY 2001 BMOP expectations document. Final comments/changes to the document are currently being reviewed. Additionally, RL has formally withdrawn the waiver which previously allowed FH the use of multiple assessment vehicles (including the Comprehensive Performance Incentives) in lieu of an annual onsite Performance-Based Business Management Process review. FH's senior management team is currently reviewing this action, and its potential impacts.

Performance Execution and Reporting Module (PERM) Status — The first quarter FY 2001 performance data, the electronic batch feed to the DOE-HQ IPABS-Project Execution Module (PEM) is currently being collected from all contractors and is scheduled for transmittal January 26, 2001. Budgeted Cost of Work Scheduled (BCWS) for the months of October and November were batch fed to DOE-HQ on November 27, 2001 and December 27, 2001, respectively.

Systems Engineering and Integration (SE&I)

FH Systems Engineering and Integration is supporting several initiatives including the implementation of DOE O 413.3, DOE Implementation Plan for DNFSB Recommendation 2000-2, and Configuration Management of Vital Safety Systems. SE&I is also supporting the FH initiatives include the Requirements Initiatives Integration Team and the Phase II Baseline Update Guidance. The Project level initiatives include Value Engineering studies for the River Corridor Project.

Environmental Compliance Program (ECP)

The call for information letter, to alert contributors to the requirements and schedule associated with the Land Disposal Restrictions (LDR) report, to be submitted April 30, 2001, was prepared and issued to a wide distribution on January 4, 2001. Ongoing discussions and negotiations with Ecology over the content of the LDR report are likely to continue during preparation of the report. Discussion points exist that are also part of the ongoing litigation processes between the regulators and DOE. This situation may create difficulty in meeting the scheduled dates if extensive changes are required as a result of the discussions or litigation.

Public Safety and Resource Protection (PSRP)

There is nothing to report at this time.

NOTABLE ACCOMPLISHMENTS

Project Controls

- The deliverable, December EMPR was delivered on December 12, 2000, on schedule.
- The deliverable, Deliver PEM FY 2001 October report to DOE-HQ was completed on December 12, 2001, on schedule.
- The deliverable, Provide data feed for EMPR/PHMC/DSMMR via PEM for November was completed on December 26, 2000, on schedule.
- The deliverable, January EMPR was delivered on January 9, 2001, on schedule.

Systems Engineering and Integration

- SE&I is working with PNNL to help develop an implementation path forward for the new DOE Order, 413.3, Project and Program Management for Acquisition of Capital Assets.
- SE&I has been identified as the FH lead organization to work on the Implementation Plan for DNFSB Recommendation 2000-2, Configuration Management of Vital Safety Systems. Several meetings have been held and this plan has been submitted to the FH Scope and Cost Management Process (SCMP).
- SE&I supported the FH initiative (Requirements Initiatives Integration Team [RIIT]) to find at least \$30M in efficiencies in base operations costs to allow the funding of critical work in FY 2001 and FY 2002. This initiative has currently found over \$27M in efficiencies.
- SE&I is working with Project Controls and the FH Projects to implement the RL Phase II Baseline Update Guidance.
- SE&I is working with the River Corridor Project to perform the Value Engineering analyses of the crane maintenance in a hostile environment and the Configuration Management in deactivated facilities.

Environmental Compliance

Air Compliance

- Management and integration support was provided on the asbestos site-wide program in billing verification and tracking asbestos NOI approvals for the site contractors, including contact with the

Benton Clean Air Authority (BCAA). A call for site wide facility input was compiled, incorporated, and issued to the BCAA as Hanford Site's annual asbestos notification of intent. This action satisfied completion of milestone ECP-01-306 which was due December 31, 2000 and completed December 19, 2000.

- Regulatory analysis development was provided to the River Corridor Project during this period which led to successful closure of the 310 TEDF Ecology air technical assistance visit action. Coordination was also provided for the planning of January/February Ecology Air technical assistance visits.

Inspections/Assessments

- On Thursday January 4, 2000 the Washington State Department of Ecology (WDOE) visited 2706-T building to observe sampling activities from the 2714-U containers. The inspectors saw first hand the numerous amount of sample bottles within the 2714-U containers and the difficulty of sampling these bottles with 3 pairs of gloves on, two pairs of coveralls and on-mask in a greenhouse.
- The final draft of the *GUIDELINES FOR FACILITATING REGULATORY AGENCY ENVIRONMENTAL INSPECTIONS AT THE HANFORD SITE*, was prepared. The document is intended as a memorandum of understanding between DOE prime contractors, for the Hanford Site Central Environmental Committee.

Project Support (ECP funded)

- The 222-S PCB assessment report and accompanying letter was completed. An evaluation of possible corrective actions was developed and provided to the facility.
- The Waste Management Project requested support in preparing a presentation to DOE on the state-only land disposal restriction for organic/carbonaceous waste. With ATG thermal treatment coming on line, there is a question regarding the applicability of this state-only land disposal restriction to Hanford mixed waste disposal activities. An analysis is in development.
- The RCRA permit modification package requesting a temporary authorization to implement changes immediately was transmitted on December 18, 2000 to Ecology. Ecology has stated in an e-mail message that the letter granting the approval has been prepared and is ready for signature. The changes will become effective February 1, 2001 and address site-wide documentation and documentation for the 242-A Evaporator and the Liquid Effluent Retention Facility/200 Area Treatment Facility. An article providing public notice of the request appeared in the December publication of the Hanford Update.

Environmental Notifications and Reporting

- Regulatory reporting was coordinated for nine (9) non-reportable releases of a hazardous substance and /or a petroleum product released to the environment. All of these releases were cleaned up and disposed of per state and federal requirements. There were no reportable events with a release to the environment. Three (3) reportable code non-compliance events and one (1) informational call were reported directly to the regulators by the Occurrence Notification Center.
- A letter was developed for distribution of the site "Contingency Plans" to be sent to the off-site regulatory agencies, Police Departments, Fire Departments and Hospitals who might be involved in an emergency event on the Hanford Site.

RCRA Permit

- Revision of the Hanford Facility (HF) RCRA Permit: Ecology initiated modification of the HF RCRA Permit, Dangerous Waste (DW) portion in two parts. The two parts consist of the corrective action portion and changes to be incorporated as part of Modification E. Ecology issued the corrective action portion on March 29, 2000, and an appeal was subsequently submitted on April 27, 2000. Agreement between RL, Ecology, and the EPA has been reached and permit conditions for corrective action will go out for public comment (scheduled for February 15, 2001) before those conditions become final (March 15, 2001).

Air & Water Program

- The Portable/Temporary Radioactive Air Emission Units (PTRAEU) Notice of Construction Performance Assessment, Milestone ECP-01-411 was completed on December 21, 2000.
- A contractor review of the draft revised report, *Injection Well Registration*, DOE/RL-88-11, Revision 2 was completed. A finalized list of active and inactive list of underground injection wells and preparation of a set of location maps is nearing scheduled completion on January 31, 2001.
- The Bimonthly Air/Water Permit schedule for all the prime contractors was updated.
- A Routine Technical Assistance Meeting (RTAM) with Washington Department of Health was held on December 18, 2000.

NEPA

- The draft Environmental Assessment for K Basins Sludge Storage at 221-T Building, Hanford Site, Richland, Washington (DOE/EA-1369) was delivered to RL on 12/21/00.
- The RL National Environmental Policy Act (NEPA) internal scope meeting concerning the draft Environmental Assessment for Trench Construction and Operation in the 218-E-12B and 218-W-5 Low-Level Burial Grounds was conducted on January 3, 2001.

Compliance

- The Solid Waste Information and Tracking System (SWITS) administrator issued waste generator data verification and certification packages on January 2, 2001, in preparation for compiling the 2000 Hanford Facility Annual Dangerous Waste Report (DWR). Generators are scheduled to return their verifications and certifications to the SWITS administrator by January 12, 2001. The final DWR (Milestone ECP-01-503) is scheduled for transmittal to RL on February 21, 2001 and to Ecology by March 1, 2001.

Crosscutting Compliance/Issue Resolution

- Support continues to the resolution of regulatory issues through the Lead Action Coordinator (LAC) program. LACs ensure crosscutting environmental issues are promptly addressed in a coordinated and effective manner. Environmental issues typically warranting assignments of a LAC are often associated with regulatory agency concern, notices of correction, or notices of violation. The LAC basically functions as a project manager for issue response/resolution. LACs are currently addressing twelve issues.
- The Environmental Center of Expertise (COE) continues to provide an excellent forum for addressing environmental decisions and policy recommendations. All FH Projects/Service Providers are routinely

Section I

participating. The COE has identified several functional area issues that are being addressed and resolved by technical staff.

- Information was gathered and provided FH General Counsel regarding existing agreements with Ecology to leave waste or waste like materials, in inactive facilities (LDR Litigation).

Public Safety and Resource Protection (PSRP)

- B.M. Gillespie, along with four other PNNL staff members, was commended by S.E. Bechtol (DOE-RL Office of Procurement Services) for teamwork and partnering with the sample management office initiative to integrate sample management activities across the Site.
- Staff completed the annual summary, Cultural Resources Project Annual *Summary* Report fiscal Year *2000: Transition to Stewardship* (Task 010302). The report was delivered to DOE-RL on December 15, completing the Milestone RLOT015002, as scheduled.

ISMS STATUS

Nothing to report at this time.

CONDUCT OF OPERATIONS

Nothing to report at this time

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

Breakthroughs

Nothing to report at this time

Opportunities for Improvement

Nothing to report at this time

UPCOMING ACTIVITIES

- The Annual Dangerous Wastes Reports and Tier II Emergency and Hazardous Chemical Inventories are due February 21, 2001.
 - Environmental Services will compile hazardous chemical information from the Hanford facilities to prepare the Tier Two Emergency and Hazardous Chemical Inventory Report, which is due February 21, 2001 (Milestone ECP-01-501).
- Environmental Services will compile the dangerous waste generation and Waste Management activities on site for the Hanford Annual Dangerous Waste Reports, which are due February 21, 2001 (Milestone ECP-01-503).

- The annual Surface Environmental Surveillance Project design review process has been initiated and will culminate with the revision and distribution of the "CY 2000 Hanford Site Environmental Surveillance Master Sampling Schedule" by the end of February 2001.
- The annual SESP design review process has been initiated and will culminate with the revision and distribution of the "CY 2000 Hanford Site Environmental Surveillance Master Sampling Schedule" by the end of February 2001.
- Summaries of CY 2000 Biodiversity Plot Monitoring Data and the Sage Brush Die-Off observed during the previous fiscal year will be completed during March 2001.

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
RL	1	1	0	0	0	5	0	7
Total Project	1	1	0	0	0	5	0	7

FY 2001	
Number	Tri-Party Agreement / EA Milestones as of December 31, 2000
ECP-01-901 ECP-01-901	Milestone Title Issue Quarterly NESHAP Status Report to RL for EPA Status Due October 20,2000 - Completed three days early
ECP-01-902 ECP-01-902	Milestone Title Issue Quarterly NESHAP Status Report to RL for EPA Status Due January 29,2001 - On schedule
ECP-01-904 ECP-01-904	Milestone Title Issue Quarterly NESHAP Status Report to RL for EPA Status Due April 2, 2001 - On schedule
ECP-01-906 ECP-01-906	Milestone Title Issue Quarterly NESHAP Status Report to RL for EPA Status Due August 31,2001 - On schedule
DNFSB Commitments	
Nothing to report at this time.	

MILESTONE EXCEPTION REPORT

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

Overdue - 0

Forecast Late - 0

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

By PBS		FYTD									
		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC	
PBS OT01	Mission										
WBS 1.8.2	Support Other MYPs	\$ 5.343	\$ 5.407	\$ 5.765	\$ 64	1.2%	\$ (358)	-6.63%	\$ 24.137	\$ 24.137	
	Total	\$ 5.343	\$ 5.407	\$ 5.765	\$ 64	1.2%	\$ (358)	-6.63%	\$ 24.137	\$ 24.137	

Authorized baseline as per the Integrated Planning Accountability, and Budget System (IPABS) – Project Execution Module (PEM)

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$ 0.4 million (6.6 percent) unfavorable cost variance is within established thresholds

The \$ 0.1 million (1.2 percent) favorable schedule variance is within established thresholds.

Schedule Variance Analysis: (+\$0.1M)

Mission Support – 1.8.2/OT01

Description and Cause: The variance is within thresholds.

Impact: None.

Corrective Action: None.

Cost Variance Analysis: (-\$0.4M)

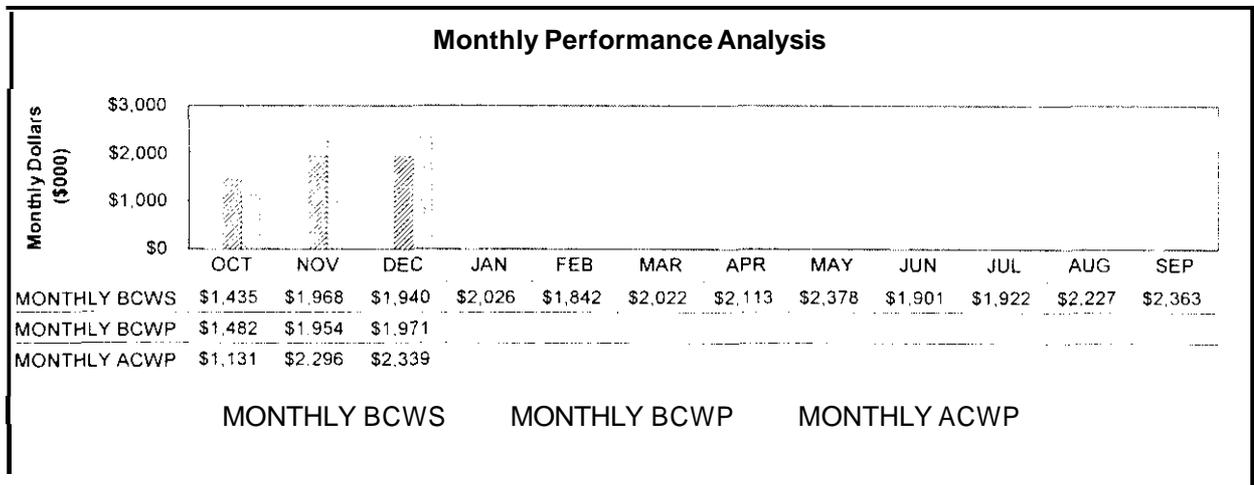
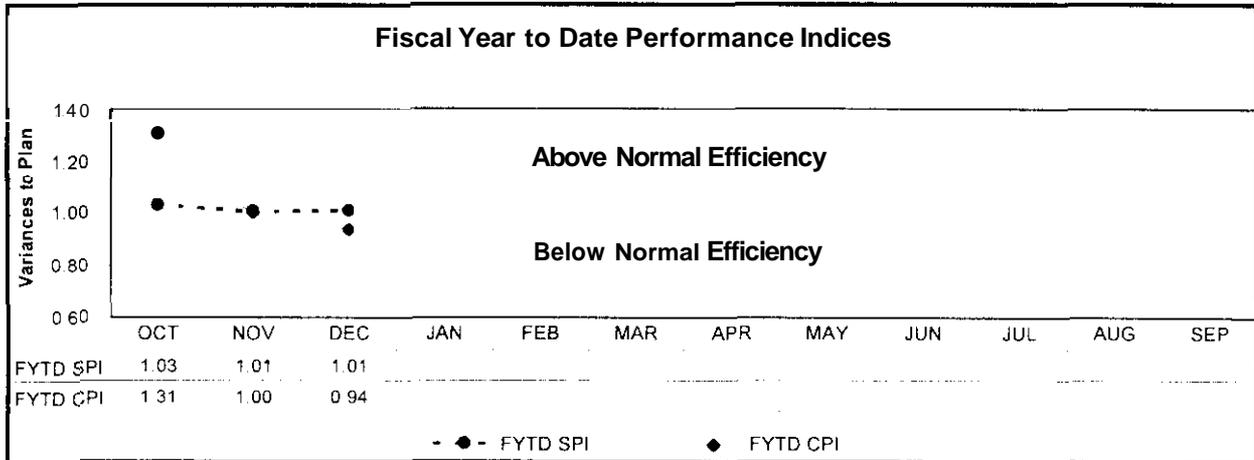
Mission Support – 1.8.2/OT01

Description and Cause: The variance is in within thresholds

Impact: None.

Corrective Action: None.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)



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

	Project Completion			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
Multiple Outcomes 18 Mission Support OT01, OT04				\$ 17,692	\$ 17,210	\$ 482			
Inventory				\$ 7,267	\$ (172)	\$ 7,439			
Total Mission Support Operating				\$ 24,959	\$ 17,038	\$ 7,921			
Total Mission Support Line Item									

*Control Point

ISSUES

Technical Issues

Site Planning & Integration

Funding Disconnect to Fiscal Year (FY) 2002 Work Plans – FH is in the process of developing work plans for FY 2002 and beyond that incorporate RL's revised strategy which focuses on completion of work on the river corridor by 2012. A roll-up of this new plan resulted in an estimated \$54 million higher than projected funding in FY 2002. Cost drivers are:

- Re-pricing that reflects labor rates, employee benefits costs, and fee amounts \$16.1 million higher than the previous estimate,
- Scope growth and additions of \$14.5 million,
- Work scope not funded in 2001 rolling into 2002 for \$12.4 million,
- Other costs of \$11.0 million.

Impacts: None reported.

Corrective Action/Status: This issue was resolved via the new FH contract extension through FY 2006.

Extension of FY 2001 MYWP Phase II Deliverables Due Dates – On December 4, 2000, RL informally provided (i.e., not via formal transmission through FH Contracts) Amendment 1 of the Phase II BUG. The Amendment identified an extension of the due date for meeting the Comprehensive Performance Incentive (PI) deliverables associated with the MYWPs Phase II (in both the current and revised WBS/Project Baseline Summary [PBS] structure) from December 15, 2000, until January 10, 2001. As the Amendment (and the extension of the PI due date) has not yet been formalized through the FH Contracts organization, FH is now in jeopardy of missing the December 15, 2000 deliverables' due date.

Impacts: None reported.

Corrective Action/Status: FH was able to meet the due date of December 15 for the revised resource control report. It was mutually agreed with RL to void the balance of the submittal requirements and reflect the contracting strategy in the life cycle submittal due on January 31, 2001.

IPABS Budget Authority Deliverable Due January 10, 2001 – The Integrated Planning and Budgeting System (IPABS) Budget Authority (BA) targets will not be received until January 2, 2001, or later from DOE-HQ, but the associated BA deliverable is due to RL by January 10, 2001. FH planned to meet this deliverable by electronically providing the MYWP Phase II data to RL. However, if the DOE-HQ BA guidance differs significantly from what will be provided in the MYWP Phase II data, the PBS owners will have an extremely short turnaround (at most six working days) to manually update IPABS (BA, metrics, technical, milestones, etc.).

Impacts: None reported.

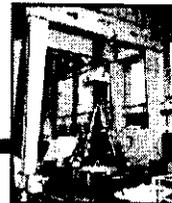
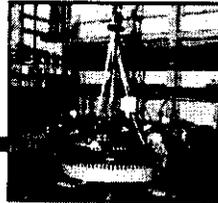
Corrective Action/Status: FH met this deliverable at the revised due dates of January 12 and 19, 2001.

BASELINE CHANCE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	M/E TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
SPI-2001-001	.2/12/00	Baseline Modifications to Support FY 2001 MYWP Update Phase II							Draft
SPI-2001-002	.2/28/00	Base Operation Reductions cor 1.8 Mission Support (FH-2001-01)	(437)			12/28/00	12/28/00	12/28/00	Approved
SPI-2001-003	.2/28/00	FY 2001 Fee reduction to 90% (FH-2001-002)	(51)			12/28/00	12/28/00	12/28/00	Approved
SSE-2001-001	.2/18/00	FY 2001 MYWP Phase II							Draft
SSE-2001-002	.2/28/00	Base Operation Reduction for Mission Support (FH-2001-001)	(98)			12/28/00	12/28/00	12/28/00	Approved
SSE-2001-003	7/26/00	FY 2001 Fee reduction to 90% (FH-2001-002)	(7)			12/28/00	12/28/00	12/28/00	Approved
ECP-2001-001	1/3/01	Adjust ECP Cost Baseline due to RIIT Cost Reduction Goal	(250)						Draft
ECP-2001-002	.2/28/00	FY 2001 Fee reduction to 90% (FH-2001-002)	(72)			12/28/00	12/28/00	12/28/00	Approved
PSR-2001-001	1/11/01	Holding							Draft
PSR-2001-002	1/11/01	Holding							Draft
PS-2001-003	1/2/01	Alignment of budget/scope to funding Allocation and Incorporation of FY 2000 Carryover.	198			1/10/01	1/10/01		In Progress

KEY INTEGRATION ACTIVITIES

Specific components of the PS&RP Program are identified as a critical core project within the Groundwater/Vadose Zone Integration Project. As such, key activities relevant to both programs were integrated into FY 2001 detailed work plans as appropriate



Section J

National Programs

SUMMARY

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.

NOTABLE ACCOMPLISHMENTS

Waste Generation & Pollution Prevention Program Report — A copy of the electronic DOE FY 2000 Annual Report of Waste Generation & Pollution Prevention Program Report, along with a draft letter for forwarding a signed hard copy to SAIC, was provided to the RL P2/WMin Program Manager.

P2/WMin Quarterly Meeting — The first quarter FY 2001 P2/WMin Quarterly Meeting was held on December 11, 2000. Attendance was not as expected. Alternatives to improve attendance are being evaluated.

DOE P2/WMin award — The RL P2/WMin Program Manager completed the review of the Stage 1 judging of the 15 Hanford Site DOE P2/WMin award nominations submitted. Thirteen of fifteen submittals were forward to DOE-HQ for Stage 2 judging.

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

By PBS		FYTD								PEM	EAC
		BCWS	BCWP	ACWP	SV	%	CV	%			
PBS OT02 WBS 1.11.1	Transportation & Packaging (RL 7601)	\$ 318	\$ 318	\$ 289	\$ (1)	-	4	29	-	\$ 1,897	\$ 1,897
PBS WM07 WBS 1.11.2	Waste Minimization (RLHQ 7770)	\$ 590	\$ 589	\$ 383	\$ (0)	0%	\$ 206	35%	\$ 2,136	\$ 2,136	
Total		\$ 908	\$ 907	\$ 672	\$ (1)	0%	\$ 235	26%	\$ 4,033	\$ 4,033	

FY TO DATE SCHEDULE / COST PERFORMANCE

There is no schedule variance. The \$0.2 M (26 percent) favorable cost variance is mainly attributed to staffing shortfalls.

Schedule Variance Analysis: (-\$0.0M)

Transportation and Packaging – 1.11.1/OT02

Description and Cause: There is no schedule variance at this time.

Impact: None.

Corrective Action: Nothing to report at this time.

Cost Variance Analysis: (+\$0.2M)

Transportation and Packaging – 1.11.1/OT02

Description and Cause: N/A.

Impact: None.

Corrective Action: Nothing to report at this time.

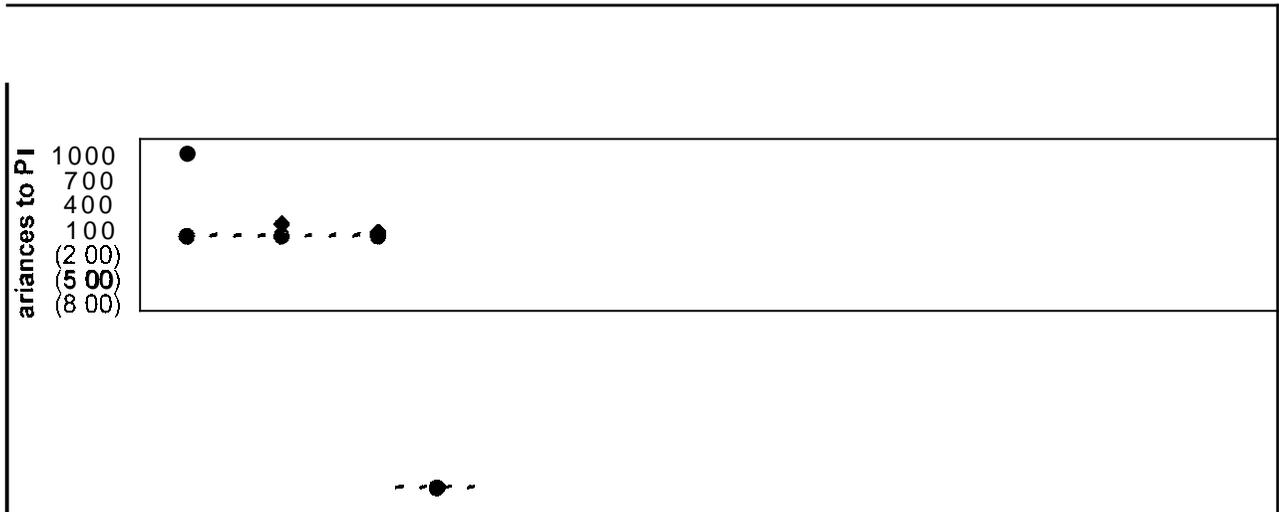
Pollution Prevention/Waste Minimization – 1.11.1/WM07

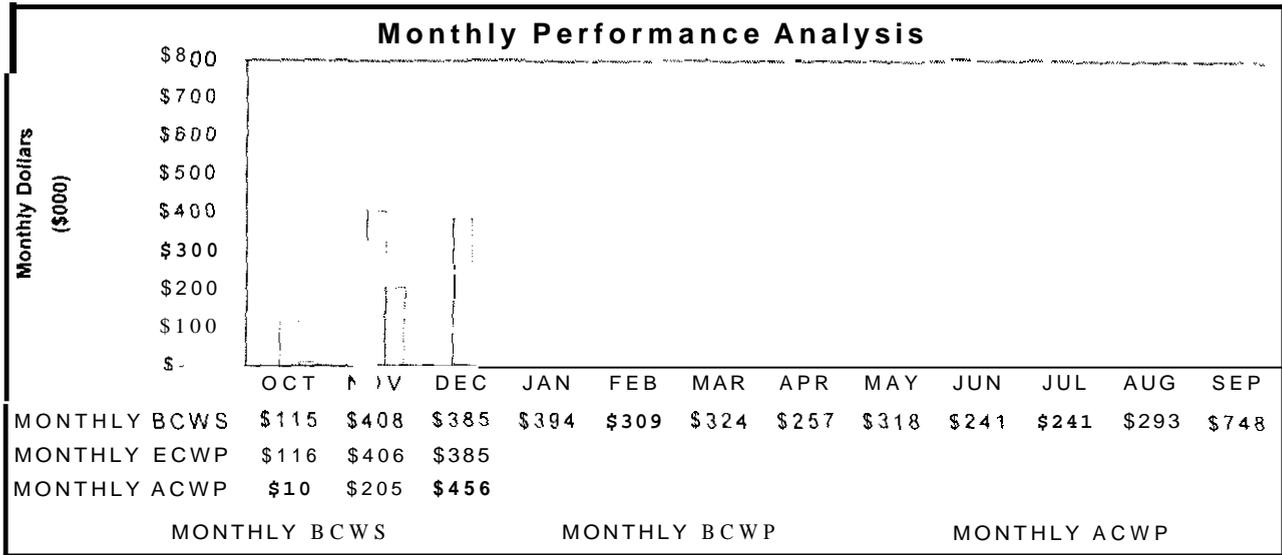
Description and Cause: The favorable cost variance is due to staffing shortfalls.

Impact: None.

Corrective Action: Actuals will catch up to budget as ROI projects are completed

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)





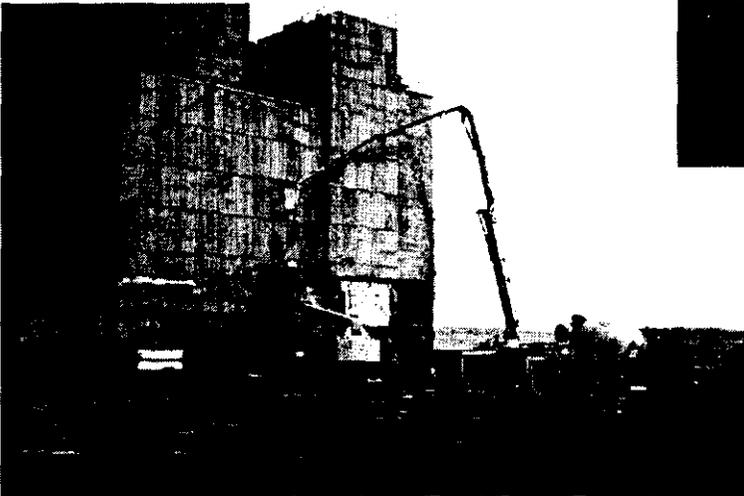
Environmental Management n ic Report

February 2001



183-KE/KW

Concrete Demolition at
the 100 F Area



Pourback Installation at
the DR Reactor

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end December.
All other data as of January 25 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0012073b.3

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A _EXECUTIVE SUMMARY	2
NOTABLE ACCOMPLISHMENTS	3
MAJOR COMMITMENTS	5
SAFETY/ISMS/CONDUCT OF OPERATIONS	6
REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS.....	11
TOTAL COST/SCHEDULE OVERVIEW.....	12
PERFORMANCE OBJECTIVES	15
KEY INTEGRATION ACTIVITIES	15
UPCOMING PLANNED KEY EVENTS.....	15
SECTION B _RESTORING THE RIVER CORRIDOR PROJECT SUMMARIES.....	16
REMEDIAL ACTION AND WASTE DISPOSAL PROJECT	17
DECOMMISSIONING PROJECTS.....	26
PROGRAM MANAGEMENT AND SUPPORT	32
SECTION C – TRANSITIONING THE CENTRAL PLATEAU PROJECT	
SUMMARIES	38
GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT	39
SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS	49

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

FEBRUARY 2001

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. All cost, schedule, milestone commitments, performance measures, and safety data is current as of December 31. Accomplishments, Issues and Integration items are current as of January 25, unless otherwise noted.

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 FY01 Environmental Management (EM) corporate performance measures. 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 (RAWD) 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 MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

**Section A:
Executive Summary**

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

A shipment of asbestos-covered pipe from the Hanford Generating Plant (HGP) was received at the Environmental Restoration Disposal Facility (ERDF) for disposal. This was the first of several shipments that will be received from HGP demolition (non-ER workscope).

Backfill activities started on the 100 D Area south pipelines on December 19. Backfill of three waste sites were also completed in mid-December. Backfill activities are being focused around D Reactor to support Interim Safe Storage (ISS) activities.

During December, remediation was completed for the additional plumes that were encountered during verification sampling in the 100 H Area. Since remediation began in the 100 H Area, 413,011 metric tons (455,269 tons) of contaminated waste have been removed and disposed at ERDF.

The 100/300 Area design data quality objective (DQO) was initiated in December. Safety analysis evaluation was also completed for the 100/300 Area design. The sample analysis plan (SAP) for the 300 Area Kd (partitioning coefficient) leachability study was finalized and transmitted to RL on December 20, one month ahead of schedule. Field investigation work was initiated for the 100 Area Burial Ground design.

The remediation contract was awarded on December 11 for the J.A. Jones and 600-23 waste sites. Mobilization activities were initiated, and authorization was given to start submittal preparation and procurement. Soil remediation was initiated on January 8.

Demolition, excavation, and stockpiling activities were completed down to 4.6 meters (15 feet) of the total 6.1 meters (20 feet) of the F Reactor Fuel Storage Basin (FSB) during December. On December 12, sampling was completed on the upper fill material that was removed. Preliminary data indicate the upper fill will be acceptable for use as clean fill.

Decommissioning activities continued at the 233-S Plutonium Concentration Facility. Removal of the L-18 vessel piping progressed, and non-destructive assay (NDA) activities began for L-18, L-16, L-4, L-14, and L-6 vessels. Seven vessels are slated for removal this fiscal year. A neutron monitor was removed from the viewing room fourth floor, and neutron monitor pipe removal also began on the viewing room second floor.

Bechtel Hanford Inc. (BHI) actively supported the national level DOE Integrated Safety Management System (ISMS) Workshop, which was hosted by RL in Pasco, Washington, on December 5-6. BHI participated in planning the workshop, coordinating breakout sessions, giving presentations, and developing a poster display.

Additional funding was received from the Office of Science and Technology that will support Canyon Disposition Initiative (CDI) and F Reactor FSB cleanout projects.

Work progressed in developing the ER Project Baseline Update (multi-year work plan). Documentation was also compiled that included recasting data into the new FY02 work breakdown/project baseline summary structure. This update and recast documentation was delivered on January 10 (per RL direction) to incorporate DOE adjustments.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

NOTABLE ACCOMPLISHMENTS continued:

CENTRAL PLA TEAU:

In December, the drilling subcontract was awarded for the FY01 and FY02 In Situ Redox Manipulation (ISRM) well drilling workscope (Phase II and Phase III). Phase I of the ISRM Project was completed on November 1 (two months ahead of schedule) satisfying Tri-Party Agreement Milestone M-16-27A, "Complete 100-HR-3 Phase I, ISRM Barrier Emplacement" (due December 31).

A total of 10 Resource Conservation and Recovery Act (RCRA) wells was installed by December 27 which met Tri-Party Agreement Milestones M-24-00L, M-24-46, M-24-47, and M-24-48 (all due on December 31).

All groundwater pump and treat systems operated above the planned 90% availability levels in December. Since system inception, the five pump and treat systems have processed over 4.6 billion liters of groundwater, removing approximately 4,918.4 kilograms of carbon tetrachloride, 214 kilograms of chromium, and 0.94 curies of strontium. Approximately 301 million liters of groundwater have been processed in FY01, removing approximately 337 kilograms of carbon tetrachloride, 21 kilograms of chromium, and 0.051 curies of strontium.

The 200-PW-2 Draft A Work Plan was transmitted to the regulators on December 21 ahead of schedule, which satisfies Tri-Party Agreement Milestones-- M-13-25; "Submit Uranium Rich Process Waste Group (ZOO-PW-2) Work Plan" (due December 31) and M-13-00K, "Submit One 200 NFL RI/FS Work Plan" (due December 31). Approval was also received from Ecology for the 200-CW-1 (Gable Mountain/B Pond) Rev. 0 Work Plan

The asbestos abatement and cleanup activities were completed for the 6 Reactor exhaust fan room roof. The expanded Engineering Evaluation/Cost Analysis (EE/CA) effort was also initiated in support of 5 Reactor hazards mitigation study. A baseline change proposal (BCP) was approved to provide additional EE/CA funding to include a more complete hazard mitigation evaluation.

During December, three tours of 6 Reactor were conducted. Reactor visitors included representatives from the Arms Control community, HQ, and DOE ISMS conference attendees.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Fifteen TPA milestones are currently planned for completion during FY01. Through December, seven milestones have been completed, all ahead of schedule. During December, TPA Milestones M-24-00L, M-24-46, M-24-47, and M-24-48 all supporting installation of ten RCRA wells by December 31, were completed on December 27. TPA Milestones M-13-00K and M-13-25, both supporting completion of the Uranium Rich Process Waste Group (200-PW-2) Work Plan (due December 31), were completed on December 21.

Green

Three milestones are currently unrecoverable. A TPA change request is nearing completion for M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100BC, 100DR, and 100HR Operable Units" (due February 28, 2001). Three new interim milestones are being proposed that will establish the start and completion dates for the 100B/C pipeline remediation. A second TPA change request is nearing completion for M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit" (due May 31, 2001) that proposes revising the completion date to September 30. A third TPA change request will be prepared in the May timeframe to revise M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling": (due September 30, 2001). Per regulator request, backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed. Regulators concur with path forward on all three issues.

Total Tri-Party Agreement Milestones Due in FY01	15
Total Planned Through December	7
Total Completed Through December	7

Remaining Tri-Party Agreement Milestones to be Completed in FY01	8
Forecast Ahead of Schedule	4
Forecast On Schedule	1
*Forecast Unrecoverable	3

*Regulators concur with path forward to realign deliverable dates.

EM Corporate Performance Measures:

Green

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Forecast for FY01	Completed YTD
Waste Site Excavations	12	12	16	16	5
*Technology Deployments	0				

*FY01 technology deployment plan is being drafted and will be submitted to RL the end of January

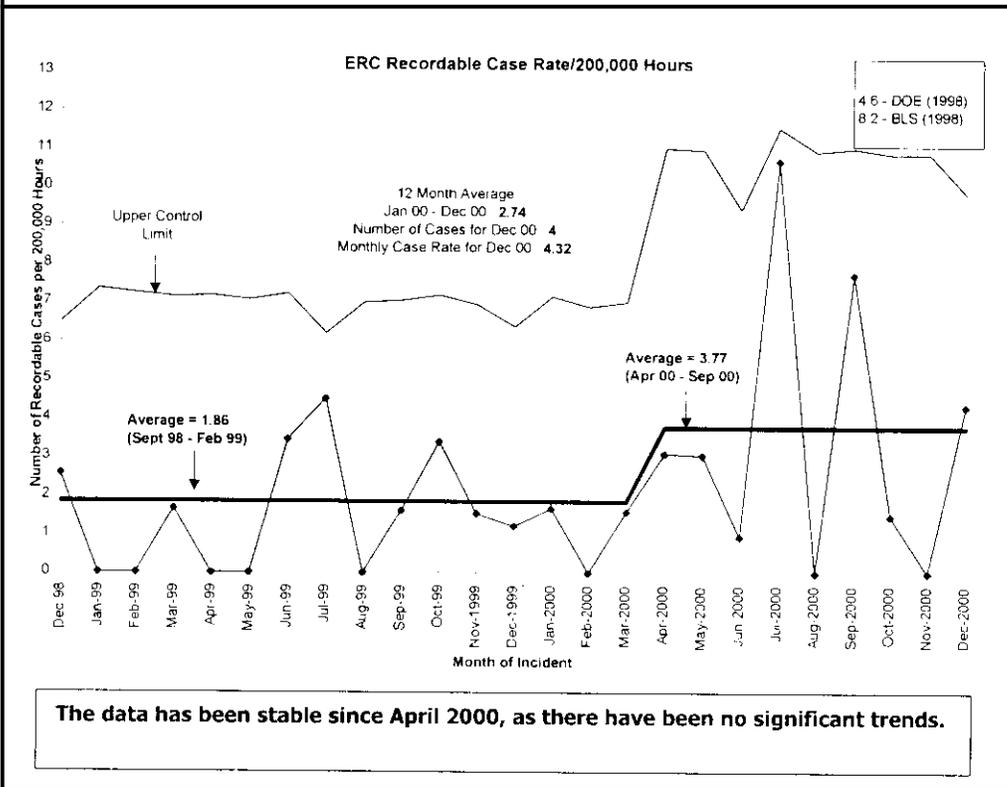
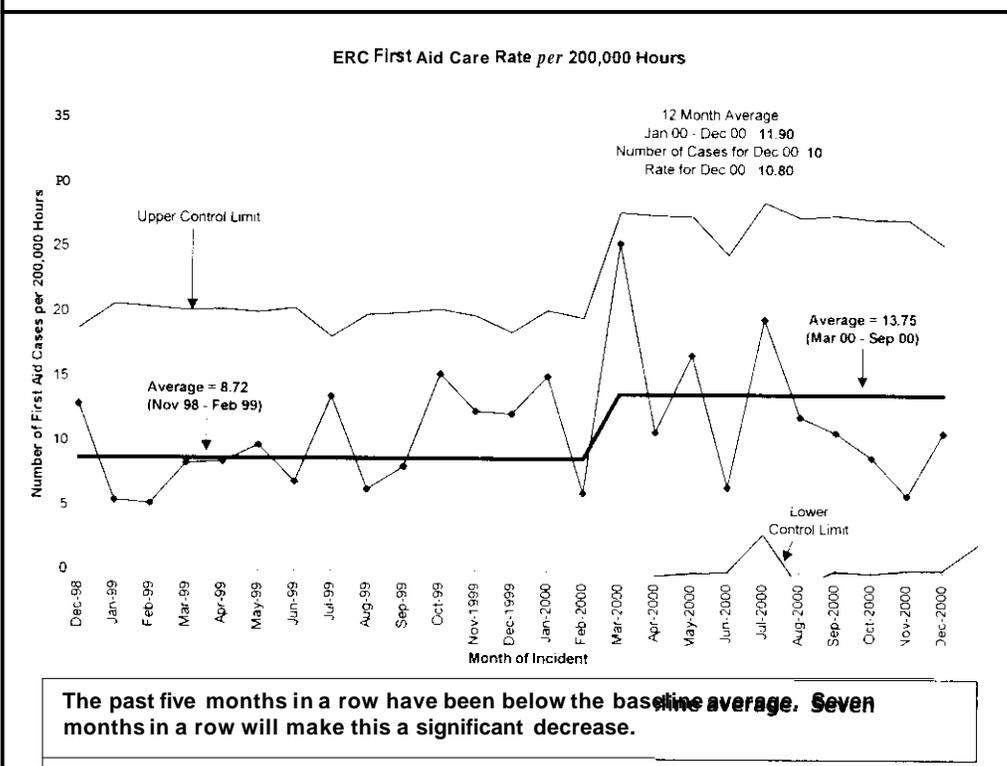
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

FEBRUARY 2001

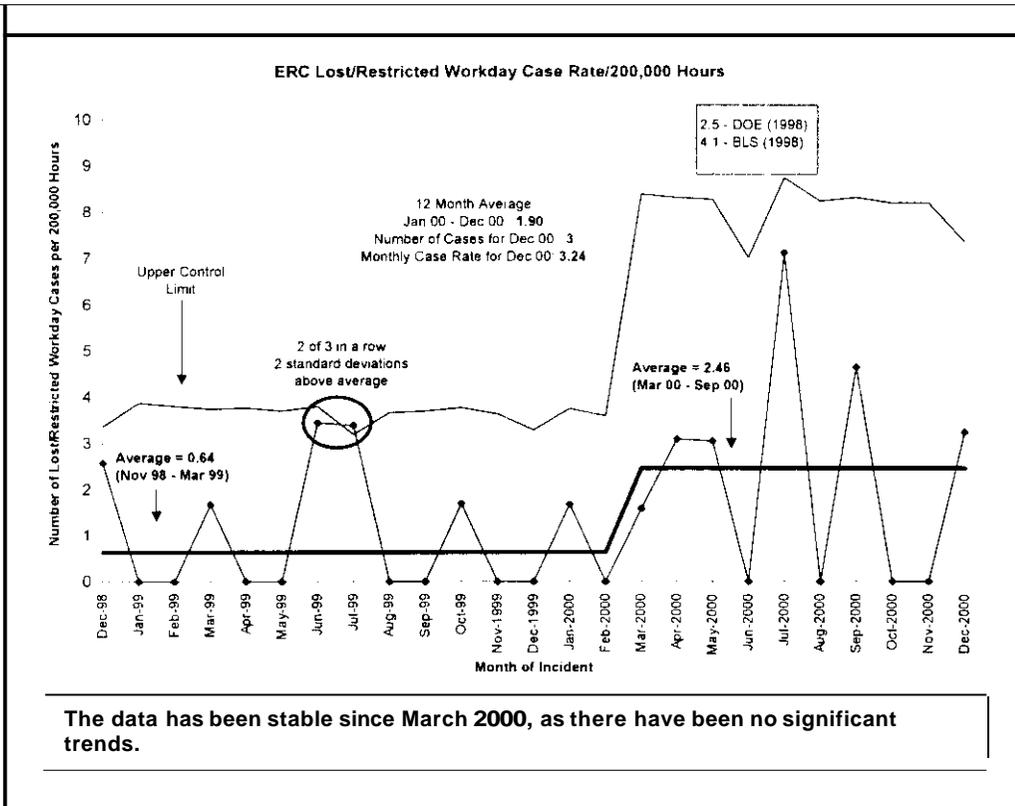
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):

Green



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2001

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



Based on the increase in the Bechtel Hanford, Inc. (BHI) baseline safety statistics, the following actions have or are being taken:

Individual injury cases were thoroughly investigated and Lessons Learned reported.

Continue to look for trends and consult with corporate and other BNI contracts for ways to enhance performance.

- Senior management conducting small group and all employee meetings to discuss safety and personal commitment.

BHI performed an analysis of all the injuries in fiscal year (FY) 2000 and sorted them by injury type and craft:

34% of the injuries were experienced by Radiological Control Technicians (RCTs).

20% of the injuries were experienced by Heavy Drivers.

29% of the injuries were to the hands and fingers.

Environmental Restoration Contract (ERC) Quality Safety and Health is producing a hand safety poster.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

Safety:

	YTD	Current Month (Dec)	Current Month Comments
First Aid	21	10	(4) contusion/bruise/abrasion, (1) irritation, (2) laceration, (2) puncture, (1) pain
OSHA Recordable	5	4*	(1) strain (Industrial Hygiene Tech strained jaw when doffing mask.) *includes (3) items below
Restricted Workday Case	2	2	(1) contusion (Rigger jumped from crane landing on rocky ground and injured heel.), (1) contusion (Teamster slipped on ice falling onto sidewalk; given restrictions)
Lost Workday Case	1	1	(1) concussion (D&D worker's chair broke; employee fell and hit head on cabinet.)

The ERC, as of January 20, 2001, reports 19,000 hours since the last lost workday incident. The incident occurred on July 17, 2000 and became a lost time on January 17, 2001.

The ERC, as of January 20, 2001, reports 19,000 hours since the last lost workday incident. The incident occurred on July 17, 2000 and became a lost time on January 17, 2001.



**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

ZSMS:

DOE EM Performance Agreement: Maintain and improve the approved Integrated Safety Management System (ISMS).

Green

Status:

- Implementation of the new hazard evaluation process continued. An action plan was developed to address the issues raised in a surveillance of the new process that was conducted in November. The action plan was reviewed and agreed to by senior management.
A presentation of the new hazard evaluation process was successfully provided to Defense Nuclear Facilities Safety Board (DNFSB) member Joe DiNunno, DNFSB staff personnel, and DOE personnel. Presentations of the hazard evaluation process were also provided at the national DOE ISMS Workshop and the national Enhanced Work Planning (EWP) Committee Meeting.
- Obtained input from projects and functional groups for safety performance measures and indicators. Held meetings with representatives from projects and functional groups to determine preliminary list of proposed safety performance measures and indicators. Actions assigned to individuals to complete detailed development of specific ISMS metrics.
Continued employee awareness of ISMS through the ISMS Question of the Day Program.
Continued to develop metrics to meet comprehensive performance objective/measure 1: Safety. This performance expectation requires BHI to "maintain and improve the approved Integrated Safety Management System (ISMS) and to review, update and submit, for RL approval, safety performance objectives, performance measures, and commitments." In order to facilitate the accomplishment of this expectation, BHI is bringing in a consultant who specializes in the development of meaningful metrics.
- Received and reviewed K. Klein's January letter regarding ISMS and VPP (Voluntary Protection Program).
Discussed DOE's VPP recognition process with Jim Tarpinian, Tom Logan, and Noble Atkins.
Initiated the development of a detailed logic and timeline of activities that are required to achieve VPP recognition.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

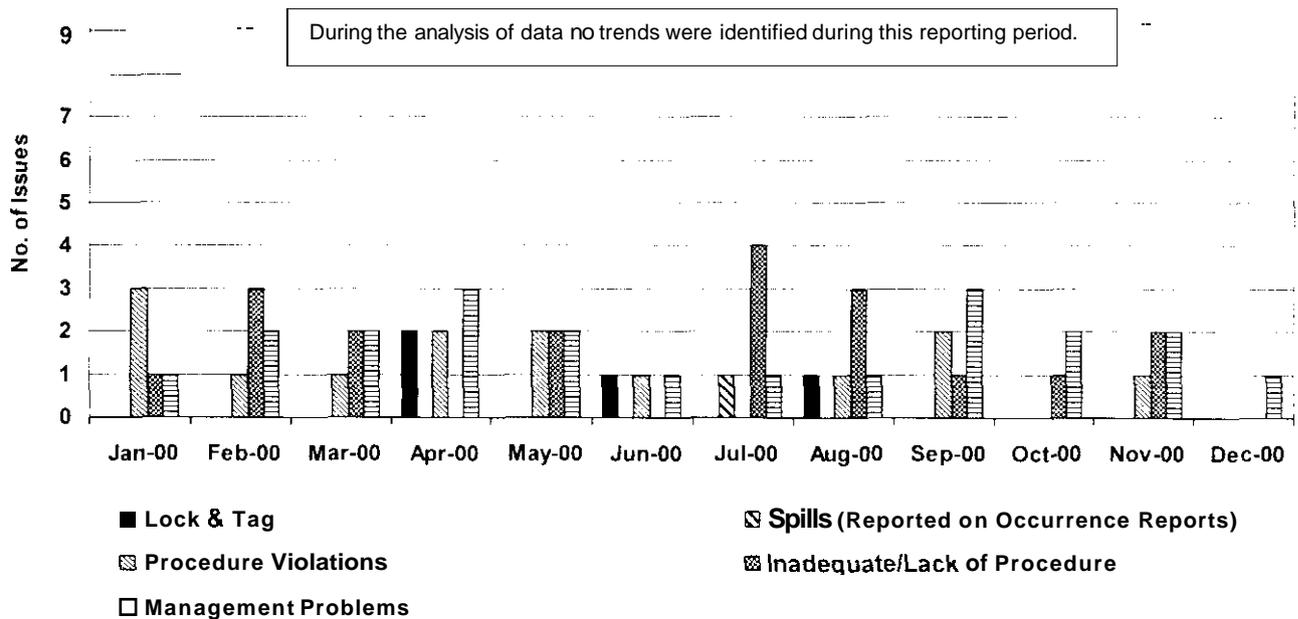
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 1/1/00 through 12/31/00

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

*Trend data not received until December



December Conduct of Ops Issues:

Management Issue:

Condition Description: As the excavator began to back away, the excavator arm became entangled in a tag line. This caused one *lifting* fixture to come loose from one corner of the panel.

Corrective Action Plan:

1. Radio communication procedures were discussed with the operators and any required frequency changes will be verified prior to allowing work to proceed
Target Completion Date: 12/1/00. Completion Date: 12/1/00.
2. Add red streamers to the tag lines to enhance visibility for the crane operator and riggers. *Target Completion Date: 12/1/00. Completion Date: 12/1/00.*
3. In all subsequent *panel lifting* operations, rigging fixtures will be centered to allow the trackhoe access to the panel without working under the tag lines.
Target Completion Date: 12/4/00. Completion Date: 12/4/00.



(Continued of following page...)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

Previous Conduct of Operations Issues Not Reported Until December:

Management Problem:

Condition Description: A Sample Technician entered the 107-H Retention Basin using RWP 100H-001, Rev 6 on 11/6/00. The Radiation Work Permit (RWP) expired on 10/25/00

Corrective Action Plan:

1. Update the log sheet at the front of the RWP books in the *RadCon Supervisor's Office*. Assignee is Charles Steward. Target Completion Date: 11/15/00. Completion Date: 11/13/00.
2. Send in all data for the expired RWPs. Assignee was Charles Steward Target Completion Date: 11/22/00. Completion Date: 11/29/00.
3. Review and update all RWP logs, books, etc., utilized by the *RadCon Organization on the Group 4 Project*. Assignee was Charles Steward Target Completion Date: 11/22/00. Completion Date: 11/29/00.
4. Review RWP review protocol with the Group 4 *Rad Workers and RCTs*. Assignees were Charles Steward and Randy Havenor. Target Completion Date: 11/15/00. Completion Date: 11/17/00.



Condition Description:

The containers of resin, miscellaneous solid waste, and filters were not labeled with the required "Remediation Waste" label.

Corrective Action Plan:

The Spill Kit equipment was changed to not only handling liquids, but to also include Radiation Absorbed Dose (RAD) materials (mixed waste). The Environmental Action Plan (EAP) has since been changed (3/9/00). Procedure BHI-SH-03, Vol. 1 has been changed to require the EAP to be immediately changed following equipment changes to the Spill Kit. Project Personnel involved in the storage of waste will read and understand the revised requirements of BHI-SH-03, Vol. 3, Section 8.0, Rev. 2 along with Revision Order A, and BHI-SH-03, Vol. 1, Rev. 2, Rev. Order A.



Procedure Violation:

Condition Description:

On Tuesday, 11/14/00, at approximately 7:30 a.m., ERC workers were dismantling a rental crane boom, prior to the vendor taking the crane offsite. The boom was on the ground, in a vendor recommended safe condition. At approximately 8:10 a.m., a Rigger was standing on the boom tip attempting to put a choker on the jib mast. As the Rigger reached for the jib mast, the mast started to swing toward the Rigger. The Rigger jumped from the boom tip to the ground (approximately 4.5 feet), sustaining an injury to the heel. The BHI Surveillance/Maintenance and Transition Projects (SM&T) had completed a task involving the crane at the 105-B Reactor building and was in progress of disassembly when the incident occurred. The Riggers had disconnected the jib forestay pendent and were attempting to place a choker on the jib so a crane could support the mast weight while the backstay pendent was removed. This event was classified as a near miss and Management scheduled a critique to determine the facts.

Corrective Action Plan:

Include Occurrence Report RL-BHI-IFSM-2000-0015 in the required reading program for all ERC riggers.

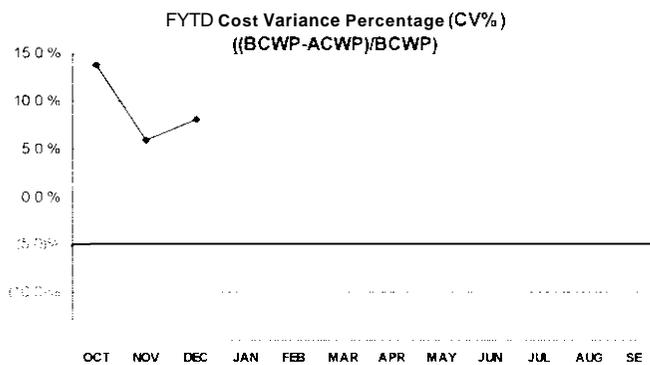


REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Refer to individual Project issues in the following Section B and Section C.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):

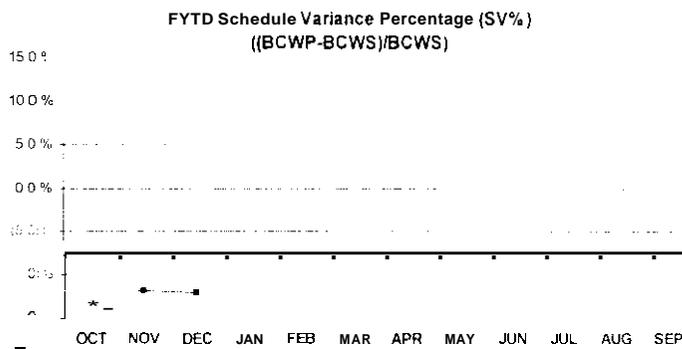


Green

Desired performance is better than -5.0%

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC w/ Carry Over
CURRENT PERIOD													
ACWP	9,656	10,998	11,610										
BCWP	11,195	10,749	13,140										
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264										
BCWP	11,195	21,944	35,085										
CV	1,539	1,290	2,820										
CV%	13.7%	5.9%	8.0%										
EAC (Cumulative)	9,656	20,654	32,264	47,524	61,114	75,442	93,566	107,873	122,027	138,369	152,161	167,084	167,356
Yr End Budget Variance	195	544	2,240										

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



Green

Desired performance is better than -7.5%

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,356	12,263	14,464	17,673	13,786	13,670	15,646	13,851	15,987
BCWP	11,195	10,749	13,140									
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,256	64,519	78,982	96,656	110,441	124,111	139,758	153,609	169,596
BCWP	11,195	21,944	35,085									
SV	(1,587)	(2,940)	(4,815)									
SV%	-12.4%	-11.8%	-12.1%									

For variance explanation by PES, see Project Status Section of each project

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

**FY01 PERFORMANCE
M D DECEMBER 2000
(\$K)**

	FY01 DWP		CURRENT			FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
	BCWS	BCWS	BCWS	BCWP	ACWP	\$	%	\$	%				
										BCWS	BCWP	ACWP	
ER01 100 Area R/A	29617	30931	6720	6258	5216	-462	-6.9%	1042	16.7%	29607			
ER03 300 Area R/A	4127	3082	770	473	4181	-2971	38.6%	55	11.6%	2992			
ER04 ER Waste Disposal	17420	18148	3981	4237	3890	256	6.4%	347	8.2%	17838			
RA-Subtotal	51164	52161	11471	10968	9524	-503	-4.4%	1444	13.2%	50437			
ER02 200 Area R/A	443	4986	589	426	351	-163	-27.7%	75	17.6%	4895			
ER08 GW Management	24942	30259	7048	6013	5884	-1035	-14.7%	129	2.1%	30096			
VZ01 GWVZ	10833	11534	3203	2649	2654	-554	-17.3%	-5	-0.2%	11649			
GWVZ-Subtotal	36218	46779	10840	9088	8889	-1752	-16.2%	199	2.2%	46640			
ER06 D&D	7195	18794	4447	3872	3692	-575	-12.9%	180	4.6%	18913			
DD-Subtotal	7195	18794	4447	3872	3692	-575	-12.9%	180	4.6%	18913			
ER05 S&M	13024	14222	4147	3363	3112	-784	-18.9%	251	7.5%	13920			
ER07 Long-Term S&M	59	59	3	3	0	0	0.0%	3	100.0%	57			
SMA-Subtotal	13083	14281	4150	3366	3112	-784	-18.9%	254	7.5%	13977			
ER10 ERC PM&S	28984	31200	7615	7313	6570	-302	-4.0%	743	10.2%	31008			
ER10 RL PM&S	5300	6381	1378	477	477	-901	-65.4%	0	0.0%	6381			
PM-Subtotal	34284	37581	8993	7790	7047	-1203	-13.4%	743	9.5%	37389			
GRAND TOTAL	141944	169596	39901	35084	32264	-4817	-12.1%	2820	8.0%	167356			

Green

Cost/Schedule Status:

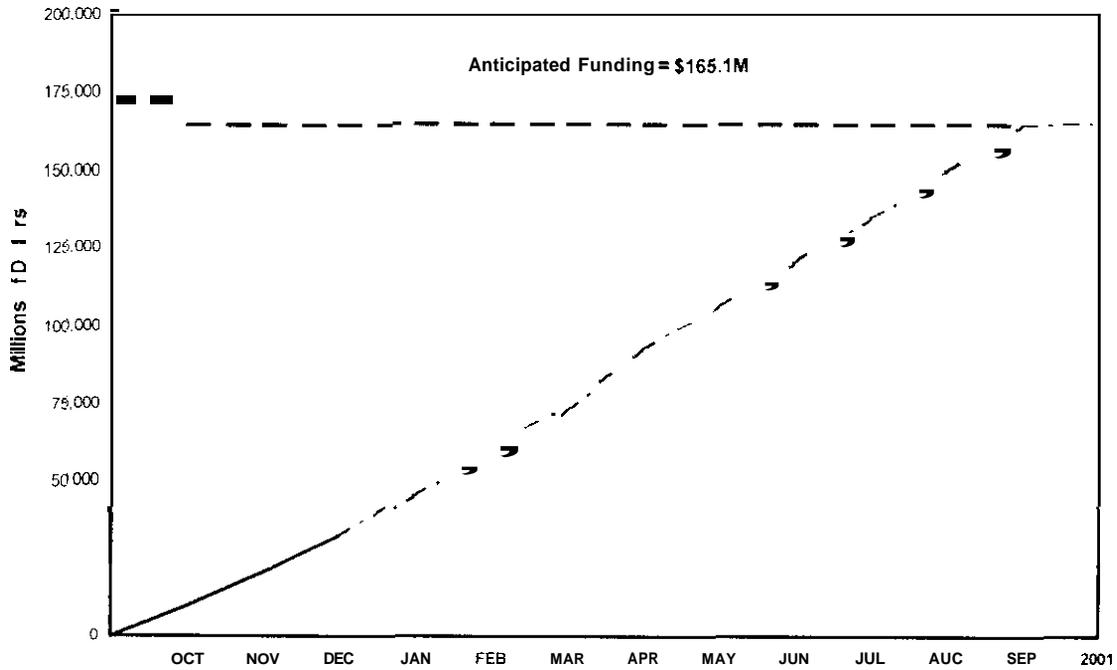
Cost Variance Summary

At the end of December, the ER Project had performed \$35.1M worth of work, at a cost of \$32.3M. This results in a favorable cost variance of \$2.8M (+8.0%). The positive cost variance is attributed to less labor required to complete remediation cleanup verification packages (CVP) due to use of a streamlined format and consolidation of waste sites; greater quantity of disposal containers available than planned; increased remediation quantities that have resulted in lower unit costs (economies of scale); shifting personnel between remediation sites, which has resulted in labor and supervision savings; and a reversed accrual for a special billings adjustment.

Schedule Variance Summary

Through December, the ER Project is \$4.8M (-12.1%) behind schedule. The negative schedule variance is attributed to contaminated soil encountered during RCRA well drilling; waste shipments from RCRA wells placed on hold pending disposition resolution; well decommissioning delays caused by extended well document search and selection; delays in groundwater monitoring sample collection and analysis activities; higher than anticipated radiation levels at 116-N-3 crib slowing remediation work; asbestos abatement delays at D and H Reactor ISS pending final safety documentation; difficulties encountered removing neutron monitors from 233-S facility; additional time required to evaluate new hexone tank sampling and video equipment; and late billing of site-wide assessments.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2001



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2001	EAC TOTAL
ANTICIPATED FUNDING	169,632	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	Est. Sch. Carryover	
APPROVED SCOPE														
1 Actual Cost	9,656	20,654	32,264											
2 Current Monthly EACs	9,656	10,998	11,610	15,260	13,590	14,327	18,124	14,308	14,154	16,341	13,793	14,922		
3 Cumulative EAC	9,656	20,654	32,264	47,524	61,114	75,441	93,565	107,873	122,027	138,368	152,161	167,083	272	167,356
JANUARY FY2001 APPROVED BCP'S														
4 ER01/ ER04 BCP 21083 Adjust 100 FR Schedule Based on FY00 Actual Progress													0	43
5 ER02 BCP 21076 Defer 200-05-1 Field Scope into FY01													0	133
6 ER04 BCP 21013 R1 Correct ERDF Spreadsheet													0	133
7 ER04 BCP 21014 R1 Correct ERDF Spreadsheet													0	133
8 Subtotal Approved Scope Changes				200	661	187	126	102	93	134	120	150	0	492
FY2001 PENDING BCP'S														
9 ER05 BCP 21066 S/M&T Scope Reductions due to Funds Reduction (Additional SA1 Scope Pending Offsets Reduction)													0	420
10 ER06 BCP 21088 Delete Pourback Duplicated for F & DR													0	111
11 ER08 BCP 21085 (PNNL) Groundwater Scope Reductions to Offset Funds													0	401
12 ER08 (PNNL) EAC Error													0	336
13 ER08 618-11 Tritium Inv. Plume Nature & Characterization (Stretch)													0	596
14 ALL Pending Scope Reductions/Efficiencies													0	11
15 Subtotal January FY2001 Approved BCP's + Pending BCP's				195	152	130	133	263	175	90	120	112	0	1,256
16 Current Monthly EAC + January FY2001 Approved BCP's & Pending BCP's	9,656	10,998	11,610	15,064	13,398	14,617	17,731	14,045	13,979	16,431	13,088	14,810		
17 Cumulative EAC + January FY2001 Approved BCP's & Pending BCP's	9,656	20,654	32,264	47,328	60,726	74,743	92,474	106,519	120,498	136,929	150,017	164,827	272	165,100

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

PERFORMANCE OBJECTIVES:

Refer to individual Project information in the following Section Band Section C.

KEY INTEGRATION ACTIVITIES:

RIVER CORRIDOR:

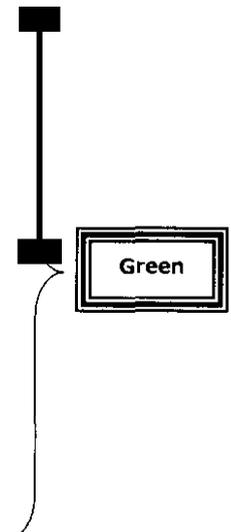
A shipment of asbestos-covered pipe from the Hanford Generating Plant (HGP) was received at ERDF for disposal. This was the first of several shipments that will be received from HGP demolition (non-ER workscope).

Actively supported the national level DOE ISMS Workshop, which was hosted by RL in Pasco, Washington, on December 5-6. BHI participated in planning the workshop, coordinating breakout sessions, giving presentations, and developing a poster display.

Coordinated fuel shipment requirements (to K Basin) with FH in event fuel is found during F and H basin demolition.

CENTRAL PLATEAU:

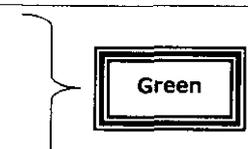
Successfully transferred contaminated scaffolding from the PUREX facility to Fluor Hanford (FH) for decontamination and redeployment to other Hanford projects.



UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-24-49, Install 3 Additional Wells at SST WMA S-SX, due 4/30/01.

Tri-Party Agreement Milestone M-24-50, Install 2 Additional Wells at SST WMA TX-TY, due 4/30/01.



Environmental Management Performance Report

February 2001

Section B - River Corridor Information

- Remedial Action and Waste Disposal Project
- Decommissioning Projects (Interim Safe Storage and 233-S)
- Program Management and Support



Excavation at 116-F-14



F Reactor



233-S

Focused on Progress...

Focused on Outcomes!

Financial/Performance Measures data as of month-end December.
All other data as of January 25 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0012073b

Remedial Action and Waste Disposal Project (RAWD)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

ERDF Transportation and Operations (ERDF): A shipment of asbestos-covered pipe from the Hanford Generating Plant (HGP) was received at ERDF for disposal. This was the first of several shipments that will be received from HGP demolition (nun-ER workslope).

During December, shipments totaling 33,971 metric tons (37,447 tons) of contaminated waste were transported to ERDF. 100,551 metric tons (110,839 tons) of waste have been received in FY01. To date, a total of 2,407,313 metric tons (2,653,622 tons) of material have been received and placed in the disposal facility.

100 B/C Area Remediation: The subcontract for 100 Area B/C pipeline remediation was awarded on November 28. The preconstruction meeting was held on December 13. Readiness assessment for the 100 B/C pipeline remediation has been initiated. Subcontractor mobilization is planned for early February.

100 D Area Remediation: Backfill activities started on the 100 D Area south pipelines on December 19. Backfill of three waste sites was also completed in mid-December. Backfill activities are being focused around D Reactor to support Interim Safe Storage (ISS) activities.

100 F Area Remediation: Excavation of the 116-F-14 retention basin continued during December. A plume estimated at 45359 metric tons (50,000 tons) will require removal in order to complete the retention basin excavation.

100 H Area Remediation: During December, remediation was completed for the additional plumes that were encountered during verification sampling in the 100 H Area. Since remediation began in the 100 H Area, 413,011 metric tons (455,269 tons) of contaminated waste have been removed and disposed at ERDF.

The method (a leachability study) to resolve the elevated hexavalent chromium contamination in the 116-H-7 retention basin was finalized.

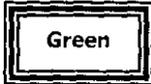
100 N Area Remediation: Demolition of the 116-N-3 crib progressed during December in the 100 N Area. The cover panels and girders with lower levels of contamination were size reduced into smaller pieces and shipped to ERDF. To reduce worker radiation exposure and alleviate contamination spread, panels and girders with high levels of contamination were size reduced into smaller pieces underneath slightly contaminated soil.

The 100-NR-1 Auditable Safety Analysis/Final Hazard Classification (ASA/FHC) document was approved by RL in December. Work progressed in updating the 100-NR-1 integrated schedule for facility decommissioning and remediation activities. The integrated schedule is expected to be completed in March.

100/300 Area Design/Assessments: The 100/300 Area design data quality objective (DQO) was initiated in December. Safety analysis evaluation was also completed for the 100/300 Area design. The sample analysis plan (SAP) for the 300 Area Kd (partitioning coefficient) leachability study was finalized and transmitted to RL on December 20, one month ahead of schedule. field investigation work was initiated for the 100 Area Burial Ground design.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

ACCOMPLISHMENTS continued: RAWD	
<p>300 Area Remediation: In December, fence installation work was initiated at the 300 Area South Process Pond. Existing fencing stockpiled at 300-FF-1 will be reused. <i>If additional fence is required it will be removed from the 100 D Area. Reusing the existing fence is approximately the same cost as installing new fabric and contributes to waste minimization principles. Some cost avoidance will be realized in the future when the fence would have required removal in the 100 D Area.</i></p> <p>300/600 Area Remediation: The remediation contract was awarded on December 11 for the J.A. Jones and 600-23 waste sites. Mobilization activities were initiated, and authorization was given to start submittal preparation and procurement. The preconstruction meeting was also held. Remediation was initiated on January 8.</p>	 Green
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
<i>See Executive Summary</i>	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
<i>None identified at this time.</i>	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<ul style="list-style-type: none">• DOE Secretarial: None identified at this time. • DOE EM Performance Agreement: None identified at this time.	

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
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-OR-2, and 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	2/28/01	2/28/05 (F)*
M-16-26C	Complete Remediation and Backfill of 10 liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	5/31/01	9/28/01 (F)**
M-16-07B	Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	7/31/01	2/16/01 (F)
M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	7/31/01	6/06/01 (F)
M-16-03E	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling	9/30/01	9/30/02 (F)***
M-16-00F	Establish Date for Completion of all 100 Area Remedial Actions	12/31/01	12/31/01 (F)
M-16-41B	Submit Closeout Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	3/31/02 (F)

Green

*Unrecoverable due to prior-year funding constraints. The 100B pipeline remediation contract was awarded on November 28. A Tri-Party Agreement (TPA) change request has been forwarded to RL that establishes three new interim milestones to identify the start and completion dates of the 100B/C pipeline remediation workscope. Regulators concur with path forward

**Elevated chromium levels were detected during closeout verification sampling. A TPA change package has been forwarded to RL proposing completion date be revised to 9/30/01. Regulators concur with path forward

***Per regulator request, Kd (partitioning coefficient) study is being performed to determine uranium leachability in the 300 Area. 300-FF-1 backfill will be deferred until leachability concerns are resolved. A TPA change package will be prepared in May timeframe. Regulators concur with path forward.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

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

PERFORMANCE OBJECTIVES: RAWD

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
RAWD	70%	80%	<ul style="list-style-type: none"> • 490,000 Tons by 9/30/01 	<i>On schedule.</i>
		10%	<ul style="list-style-type: none"> • Backfill 16 Sites by 9/30/01 • 50,000 Additional Tons by 9/30/01 (*Stretch) <p><i>CV <5.0%; SU <7.5% for grouped PBS ER01, ER03, ER04</i></p>	<p><i>On schedule.</i></p> <p><i>Approximately 30% of Stretch undertaken as of 11/30/00.</i></p>

Green

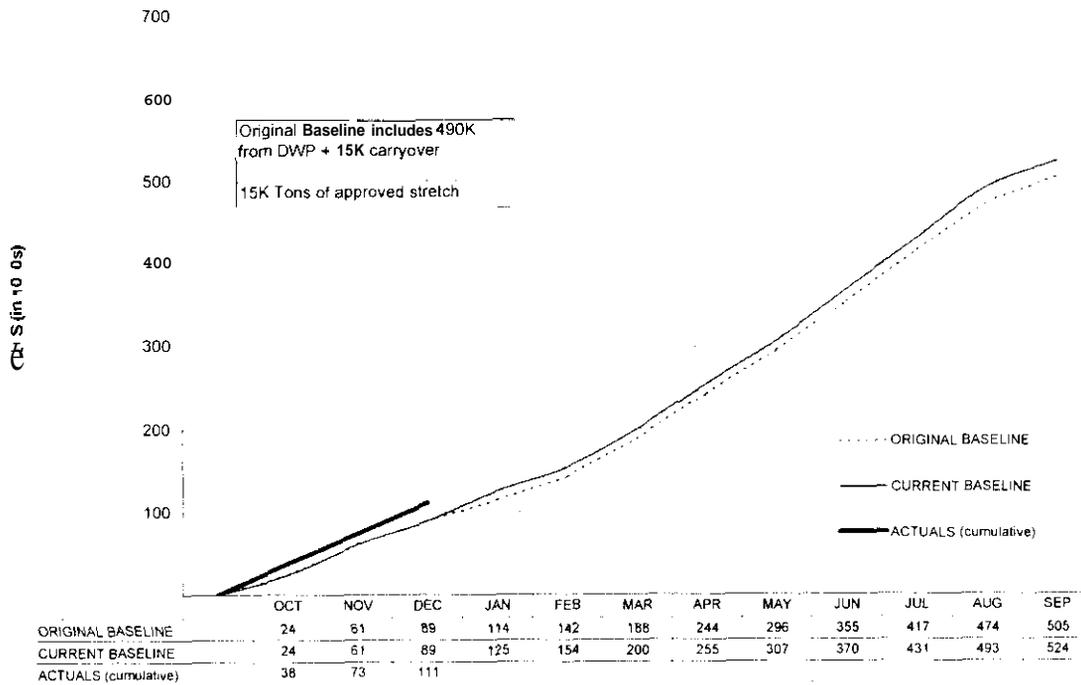
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2001

PERFORMANCE MEASURES/METRICS: RAWD - (River and Plateau)

	DWP FY01	FY01Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY01	Completed YTD
Waste Sites Excavated	12	12	16	16	5

Green

Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF



STRETCH AND SUPERSTRETCH GOALS: RAWD

FY01 RAWD "Stretch" Goals	Estimated Tons (K)	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Soil by 9/30/01	50K	
<ul style="list-style-type: none"> • Additional Contamination Soil at T00-F Pipelines • Additional Contamination Material at 100-H Sites 		7.5K 8.0K
S/Total Remedial Action Stretch Goals:	50K	15.5K

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

- **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER01</i> <i>100 Area Remedial Actions</i>	6,720	6,258	(297)
ER03 <i>300 Area Remedial Actions</i>	770	473	256
ER04 <i>ER Waste Disposal</i>	3,981	4,237	503 256
TOTAL Remedial Actions	11,471	10,968	(503)

Green

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

- cost:

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER01 <i>100 Area Remedial Actions</i>	29,607	6,258	5,216	---
ER03 <i>300 Area Remedial Actions</i>	2,992	473	418	---
ER04 <i>ER Waste Disposal</i>	17,838	4,237	3,890	347
TOTAL Remedial Actions	50,437	10,968	9,524	1,444

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = **\$1042K; 16.7%** [Last Month: \$199K; 5.4%]

Cause: Less labor and supervision were required than anticipated at the 100 Area waste sites by *shifting personnel between various sites and avoiding duplication.*

Resolution: Reflected in EAC. *Underrun will be used to perform additional remediation work.*

Cause: Closeout Verification Packages (CVPs) are requiring less labor than anticipated to prepare due to the use of a “streamlined format and the consolidation of waste sites. Labor costs have increased for the lead brick survey and have slightly offset CVP savings.

Resolution: Reflected in EAC. *Underrun will be used to perform additional remediation work.*

Cause: The availability of extra disposal containers at 100-FR-1 is allowing more work (earned value) to be accomplished with the same work force.

Resolution: Reflected in EAC. *Underrun will be used to perform additional remediation work.*

PBS-ER03 – 300 Area Remedial Action

Cost Variance = **\$55K; 11.6%** [Last Month: \$84K; 24.9%]

Cause: Coordinating design efforts with 100 Area Burial Ground has resulted in data quality objective (DQO) costing less.

Resolution: Reflected in EAC. *Underrun will be used to perform additional remediation work.*

PBS-ER04 – Environmental Restoration Waste Disposal

Cost Variance = **\$347K; 8.2%** [Last Month: \$401K; 14.0%]

Cause: Increase in 100 Area remediation quantities has resulted in lower transportation unit costs (economies of scale).

Resolution: Cost savings may be offset by anticipated increase in craft overtime to meet demands later in the year.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

REGULATORY ISSUES: RAWD

Tri-Party Agreement Milestone M-16-26B: M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100B/C, DR, and HR Operable Units" by February 28, will be missed due to lack of funding in FY99 and FY00 for 100 B/C pipeline remediation activities.

Green

Status: The 100 B/C pipeline remediation contract was awarded on November 28. A Tri-Party Agreement change request has been forwarded to RL that proposes establishing three new interim milestones addressing the start and completion of the pipeline remediation workscope. The regulators concur with path forward.

Tri-Party Agreement Milestone M-16-26C: M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit" by May 31, 2001, will be missed due to unanticipated elevated arsenic levels found early in FY00 (which have since been resolved), and chromium sample analysis results above the remedial action goals encountered during confirmation sampling/verification activities.

Green

Status: A Tri-Party Agreement change request has been forwarded to RL that proposes revising the completion date from May 31 to September 30. The regulators concur with path forward.

Tri-Party Agreement Milestone M-16-03E: M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling": due September 30, 2001, will be missed due to the U.S. Environmental Protection Agency (EPA) requirement of performing a Kd (partitioning coefficient) study on uranium leachability. The regrades will not be completed until study results confirm that no further excavations will be required.

Green

Status: EPA requested a Kd (partitioning coefficient) study be performed to address uranium mobility in the 300 Area. This study will consist of obtaining uranium-contaminated samples, and performing leach rates with follow-on absorption tests, resulting in a Kd value. A DQO was completed, and a baseline change proposal was prepared to secure funding for the study. The study is expected to begin in February and be completed in FY02. Preliminary results should be available at the end of FY01. A Tri-Party Agreement change package will be prepared in the May timeframe. The regulators concur with path forward.

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.

INTEGRATION ACTIVITIES: RAWD

ERDF Transportation and Operations: A shipment of asbestos-covered pipe from the Hanford Generating Plant (HGP) was received at ERDF for disposal. This was the first of several shipments that will be received from UGP demolition (non-ER workscope).

Green

Decommissioning Projects (D&D)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).

Decommissioning Projects (D&D)

KCOMPLISHMENTS: D&D

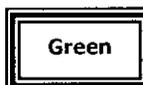
F Reactor ISS: Demolition, excavation, and stockpiling were completed down to 4.6 meters (15 feet) (of the total 6.1 meters [20 feet]) of the F Reactor Fuel Storage Basin (FSB) during December. On December 12, sampling was completed on the upper till material that was removed. Preliminary data indicate the upper fill will be acceptable for use as clean fill. Exterior building demolition was also completed for the inner rod room entrances.

DR Reactor ISS: Concrete pourbacks were completed at the north and south stailwells at DR Reactor on December 27.

D and H Reactor ISS: The D/H Reactor Waste Designation Sampling and Analysis Plan (SAP) Rev. 0 was delivered to RL and Ecology for final signature the end of December. At D Reactor, cement asbestos board removal was completed in the valve pit/supply fan area, including the supply intake and south entrance doorway.

233-S Plutonium Concentration Facility Decommissioning Project: During December, activities accomplished in the highly contaminated 233-S facility proceeded on schedule as planned:

- Removal of the neutron monitor on the viewing room fourth floor. Neutron monitor pipe removal began on the viewing room second floor.
- Continuation of the L-18 vessel piping removal
- Commencement of the accessible process hood piping removal.
- Placement of the loadout hood sump into a transuranic (TRU) standard waste box for disposal in the Central Waste Complex (CWC). Portfolio calculations were completed for the first TRU shipment of 208-liter drum (55-gallon drum) from 233-S facility to CWC.
- Irritiation of non-destructive assay (NDA) for L-18, L-16, L-4, L-14, and L-6 vessels.
- Completion of south weather enclosure shielding assembly for NDA support.



SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

See Executive Summary

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

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

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): D&D

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

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: D&D

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

- **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-93-12	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (...)	2/28/02	*TBD

Green

**Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY02. Initial discussions are underway.*

DNFSB Commitment
None identified at this time.

PERFORMANCE OBJECTIVES: D&D

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
233-7S	13% plus FY02 equivalent portion	76%	<ul style="list-style-type: none"> • 8 vessels by 6/30/02 	<i>Critical path activity on schedule.</i>
		24%	<ul style="list-style-type: none"> • 7 additional vessels by 6/30/02 (*Stretch) CV <5.0%; SV <7.5% for PBS ER-06	<i>BCP-21023 approved commencing Stretch.</i>
ISS	11%	35%	• D Reactor Major Tasks by 9/37/01	<i>Critical path activity on schedule; received authorization funding in December.</i>
		15%	• DR Reactor Major Tasks by 9/30/01	
		35%	• F Reactor Major Tasks by 9/30/01	
		15%	• H Reactor Major Tasks by 9/30/01	
			CV <5.0%; SV <7.5% for PBS ER-06	

Green

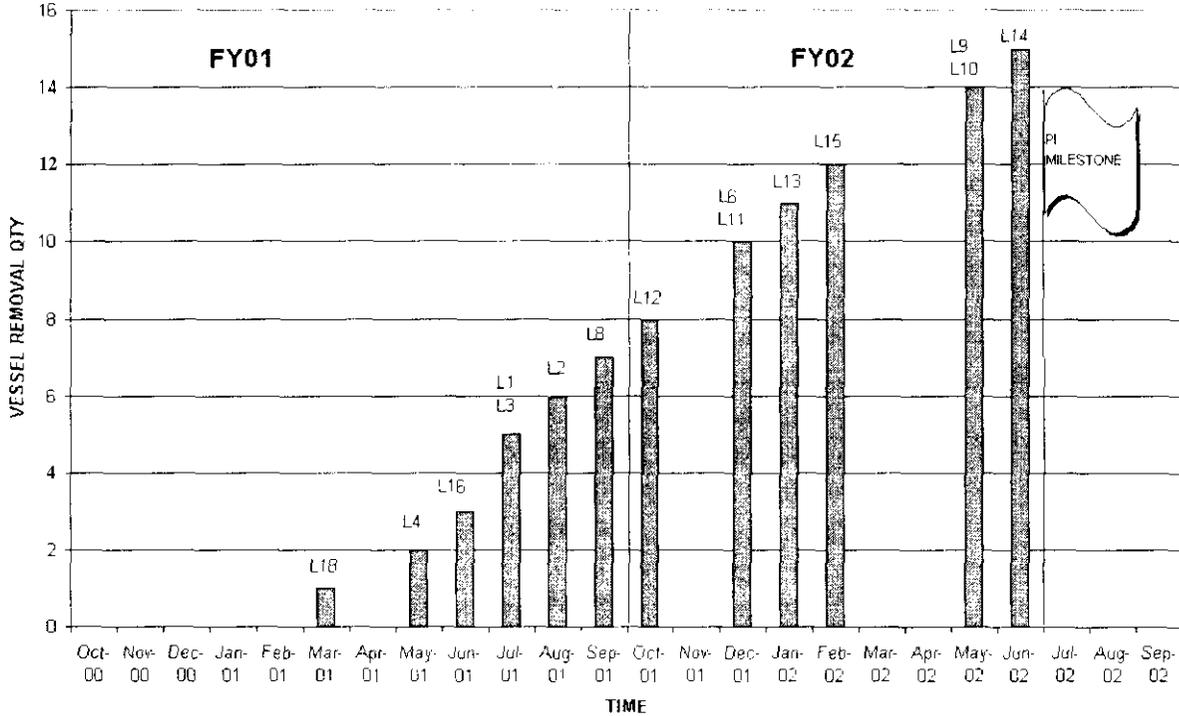
**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

PERFORMANCE MEASURES/METRICS: D&D

Green

ACCELERATED VESSEL REMOVAL SCHEDULE

PERIOD ENDING DECEMBER 31 2000



STRETCH AND SUPERSTRETCH GOALS: D&D

FY01 D&D "Stretch" Goals	Estimated PI Scope Value (K)	Approved BCPs (K)
<i>Remove 4 Vessels by 9/30/01 and a Minimum of 8 Vessels by 6/30/02 (Regular)</i>		
<i>Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only)</i>	\$1,100.0K	\$1,072.0K
S/Total D&D Stretch Goals:	\$1,100.0K	\$1,072.0K

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

■ **Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	4,447	3,872	(575)
TOTAL D&D	4,447	3,872	(575)

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = **(\$575K); (12.9%)** [Last Month: (\$400K); (15.0%)]

Cause: D and H Reactors asbestos removal and liquid pipe checks have been delayed due to delay in regulatory approval of documents and the implementation of the new Job Hazard Analysis (JHA) workpackage procedure.

Resolution: Documents were approved in November. Asbestos removal activities will be worked on overtime to recover.

Cause: Pour backs at DR and F Reactors were delayed due to Quality Assurance (QA) issues and poor weather conditions.

Resolution: Temporary schedule delay; variance recovery expected end of February.

Cause: Fuel Storage Basin (FSB) soil removal and de-watering activities at F Reactor were delayed due to issues regarding Identification of debris, workscope documentatton and procedures.

Resolution: A training session was held to identify the debris expected to be found. Documentation and procedures were revised to allow work to proceed in a more controlled and defined manner.

Cause: Demolition progress at 233-S slowed due to difficulty in removing neutron monitors.

Resolution: Impact not significant; with planned staffing schedule recovery expected in February.

■ **cost:**

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	18,913	3,872	3,692	180
TOTAL D&D	18,913	3,872	3,692	180

Green

PBS-ER06 – Decontamination and &commissioning

Cost Variance = **\$180K; 4.6%** [Last Month: \$31K; 1.4%]

Cause: DR Reactor demolition costs less than anticipated. H Reactor project support and rad monitoring less than planned.

Resolution: Underrun will be used to perform additional remediation/demolition work.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

REGULATORY ISSUES: D&D

D and H Reactor Impacts of TPA Milestones: The acceleration of the reactor ISS projects is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12) for DR Reactor.

Green

Status: Initial discussions with the regulators have started which may lead to resolution in the near future. This will need to be discussed as part of RL's 100Area acceleration vision. Regulators concur with path forward.

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

None identified at this time.

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

233-S Process Hood: To support FY01 decommissioning activities in the 233-S Process Hood, non-destructive assay (NDA) support (provided by FH-PFP) was planned on a full-time basis. To-date, the support has been less than required. Although NDA support has not yet become a critical path item, it has the potential to impact the rate of equipment removal from the process cell.

Green

Status: Continue to work with the NDA provider to insure adequate support exists on a continuing basis.

INTEGRATION ACTIVITIES: D&D

Coordinated fuel shipment requirements (to K Basin) with FH in event fuel is found during F and H basin demolition.

Green

Program Management and Support (PM&S)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: Bechtel Hanford Inc. (BHI) actively supported the national level DOE Integrated Safety Management System (ISMS) Workshop, which was hosted by RL in Pasco, Washington, on December 5-6. BHI participated in planning the workshop, coordinating breakout sessions, providing presentations, and developing a poster display.

The Radiological Control organization issued the lead brick release technical assessment (TA) to comply with the EPA Multi-Media Inspection Consent Agreement and Final Order (CAFO).

PROGRAM AND PROJECT SUPPORT

External Affairs: The ER Project Year in Review document was published and distributed to Congressional members, community leaders, stakeholders, and employees

Procurement and Property Management: The radiation survey documentation for the disposition of 1,280 meters (1,400 yards) of rail from the 100D Area was completed in December. The rail is expected to be removed for salvage by the end of February

ENGINEERING AND TECHNOLOGY:

Environmental Technologies: The subcontract to plant 2,600 sagebrush tublings on waste sites remediated by the ERC was awarded on December 8. These sites were hydroseeded with native grasses, forbs, and shrubs in December 1999. The sagebrush planting completes the final phase of revegetation for these remediated sites. In addition, seed from native shrubs, including sagebrush and rabbitbrush, was gathered for use in future ERC revegetation efforts. A portion of the sagebrush seed will be sent to native plant nurseries for plant propagation.

The Hanford Site Waste Minimization/Pollution Prevention (WMin/P2) Program Office published the FV00 Annual WMin/P2 Accomplishments Book.

Technology Applications: Additional funding was received from the Office of Science and Technology that will support Canyon Disposition Initiative (CDI) and F Reactor FSB cleanout projects.

PLANNING AND CONTROLS:

Work progressed in developing the ER Project Baseline Update (multi-year work plan). Documentation is also being compiled that includes recast data in the new FY02 work breakdown/project baseline summary structure. This update and recast documentation was delivered on January 10 (per RL direction) to incorporate DOE adjustments. The Baseline Update will form the basis for the FY02 Budget Update, the annual update of the DOE, Headquarters (HQ) Baseline Integrated Planning, Accountability, and Budgeting System (IPAES) database, and the initial FV03 budget submittal.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

SAFETY/ISMS/CONDUCT OF OPERATIONS PM&S	
<i>See Executive Summary.</i>	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: PM&S	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: PM&S	
<p>Six Sigma: The Waste Management Process Improvement Project (PIP#1) is 70% complete. The business plan for this PIP includes the following elements:</p> <ul style="list-style-type: none"> • problem statement • project objectives • primary and secondary metrics • pareto graphs • swim lane process charts • failure method effect analysis <p><i>The Procedure Development Process Improvement Project (PIP#2) business plan has been drafted and the Team Leads for developing and implementing this PIP have been identified.</i></p> <p><i>An all-day "Leading Six Sigma" training For ERC and DOE-RI Senior Management was held on January 18, 2001.</i></p> <p><i>During the week of January 22-25, 2001, we underwent our second Readiness Analysis and Design Development (RADD) survey. This survey was held with 20 BHI employees who represented a cross-section of our work force. This survey was held in order to validate the results from our first RADD survey which was conducted in October/November 2000. The results from these surveys will provide valuable feedback on current work processes and will help us to establish a baseline for ERC Six Sigma operations.</i></p> <p><i>In March 2001, 25 ERC and DOE-RL personnel will participate in Six Sigma Yellow Belt Training. Yellow Belts fulfill the role of process owners and operators, as well as that of key members of PIP Teams. They work in partnership with the Champions and Black Belts to ensure that the improvement efforts are focused and executed in those areas where data indicates the need</i></p>	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): PM&S	
<ul style="list-style-type: none"> ■ DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> ■ DOE EM Performance Agreement: None identified at this time 	
<ul style="list-style-type: none"> ● TPA Milestones: None identified at this time 	
<ul style="list-style-type: none"> ● DNFSB Commitment: None identified at this time. 	

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

PERFORMANCE OBJECTIVES: PM&S

Comprehensive Measures— Approximately 10% Available Fee Pool Total Positive Value
Total Negative Value cannot exceed earnings under the Comprehensive PI

Comprehensive Measure	Fee Allocation	Task	Status
Safety	Negative Fee up to 50% of fee available for comprehensive PI	<ul style="list-style-type: none"> The Contractor shall protect worker safety and health, public safety and health, and the environment. 	Reference the Safety Section of the Cross-Cutting package..
Operational Excellence	Positive Fee up to 55% of fee available for comprehensive PI	<ul style="list-style-type: none"> Migrate systems to facilitate PBS restructuring in FY02 – 15% Rebaseline completed per Baseline Updating Guidance (BUG) – 20% Integrate technology into Projects – 10% Achieve pollution prevention/waste minimization – 10% 	All activities on schedule for completion per DOE revised schedule.
Effective Leadership	Positive Fee up to 45% and Negative Fee up to 50% of fee available for comprehensive PI	<ul style="list-style-type: none"> Management Effectiveness Customer Satisfaction Effective Financial Management 	No concerns identified during December

Green

PERFORMANCE MEASURES/METRICS: PM&S

*FY01 technology deployment plan is being drafted and will be submitted to RL the end of January.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
*N/A	N/A	N/A	N/A

STRETCH AND SUPERSTRETCH GOALS: PM&S

None identified at this time

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

■ **Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ERIO ERC Program Management & Support</i>	7,615	7,313	(302)
<i>ERIO RL Program Management & Support</i>	1,378	477	(901)
TOTAL PM&S	8,993	7,790	(1,203)

Green
Green

Resolution: Temporary schedule delay; subcontracts are being prepared to provide *additional staffing and recover schedule.*

Cause: Late billing on site-wide assessments.

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

■ **cost:**

Program Management & Support	FY01 EAC	BCWP	AWP	Variance
		\$K	\$K	\$K
<i>ERIO ERC Program Management & Support</i>	31,008	7,313	6,570	743
<i>ERIO RL Program Management & Support</i>	6,381	477	477	0
TOTAL PM&S	37,389	7,790	7,047	743

Green
Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

DOE-RL 81 HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

[INTEGRATION ACTIVITIES: PM&S

Actively supported the national level DOE ISMS Workshop, which was hosted by RL in Pasco, Washington, on December 5-6. BHI participated in planning the workshop, coordinating breakout sessions, providing presentations, and developing a poster display.



Environmental Management Performance Report

February 2001

Section C - Central Plateau Information

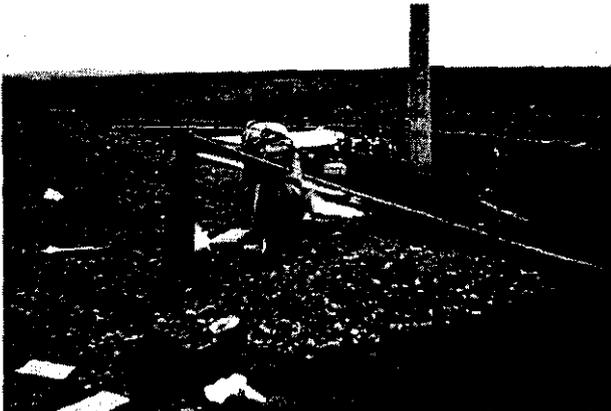
- Groundwater/Vadose Zone Integration Project
- Surveillance/Maintenance & Transition Projects



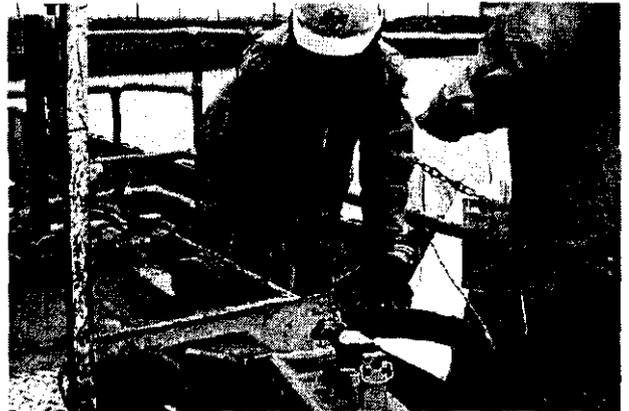
REDOX Facility



The New 186-N Water Plant in the 100 N Area



Flashing Replacement on the 221-U Roof



Unloading Purgewater Truck at the 600 Area

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

Financial/Performance Measures data as of month-end December.
All other data as of January 25 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0012073b

**Groundwater/Vadose Zone
Integration Project
(GW/VZ)**

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).

Groundwater/Vadose Zone Integration Project(GW/VZ):

ACCOMPLISHMENTS GW/VZ

GW/VZ INTEGRATION PROJECT:

System Assessment Capability: The GW/VZ Project personnel met with Ecology staff on December 20 to brief them on the current status of the development of System Assessment Capability (SAC) and the attributes of the initial assessment. This meeting set the stage for discussing assessment results later this year and obtaining Ecology input to requirements development in early FY02.

Science and Technology: The Environmental Management Science Program (EMSP) Project Investigator Workshop was completed. The workshop consisted of direct interactions between project investigators and Hanford Site Projects to incorporate EMSP results.

GROUNDWATER MANAGEMENT

In Situ Redox Manipulation (ISRM) Project: In December, the drilling subcontract was awarded for the FY01 and FY02 ISRM well drilling workscope (Phase II and Phase III). Phase I of the ISRM Project was completed on November 1 (two months ahead of schedule) satisfying Tri-Party Agreement Milestone M-16-27A, "Complete 100-HR-3Phase I, ISRM Barrier Emplacement" (due December 31).

River Corridor Well Decommissioning: Decommissioning of the planned Phase 1A North wells was completed, meeting the end-of-year commitment.

RCRA Well Installation: A total of 10 RCRA wells was installed by December 27 which met Tri-Party Agreement Milestones M-24-00L, M-24-46, M-24-47, and M-24-48 (all due on December 31).

Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in December. Since system inception, the five pump and treat systems have processed over 4.6 billion liters of groundwater, removing approximately 4,918.4 kilograms of carbon tetrachloride, 214 kilograms of chromium, and 0.94 curies of strontium. Approximately 301 million liters of groundwater have been processed in FY01, removing approximately 337 kilograms of carbon tetrachloride, 21 kilograms of chromium, and 0.051 curies of strontium.

200-ZP-2 Vapor Extraction System: The 200-ZP-2 soil vapor extraction system was placed off-line in W00, in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling will continue.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

ACCOMPLISHMENTS continued: GW/VZ

A meeting was held on November 7 with the regulators, RL and contractors to discuss a path forward on Dense Non-Aqueous Phase Liquid (DNAPL) investigation. It was agreed that the Partitioning Interwell Tracer Test (PITT) was too expensive for a speculative location of the test. The PITT test will be put on hold while further conventional characterization is performed. Current activities include the preparation of baseline change proposals (BCP) to address the need to obtain characterization data during the well deepening at the Z-9 crib, and to resume 200-ZP-2 operations by April 1. Planning is underway for the construction of a new groundwater well at the Plutonium finishing Plant (PFP). These actions will close all outstanding issues between RL, the regulators, and contractors.

200 AREA ASSESSMENTS:

The 200-PW-2 Draft A Work Plan was transmitted to the regulators on December 21 ahead of schedule, which satisfies two Tri-Party Agreement Milestones-- M-13-25, "Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan" (due December 31) and M-13-00K, "Submit One 200 NFL RI/FS (RFI/CMS) Work Plan (due December 31).

Approval was received from Ecology for the ZOO-CW-1 (Gable Mountain/B Pond) Rev. 0 Work Plan.



SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ

None identified at this time.

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

None identified at this time

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ

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

DOE EM Performance Agreement:
None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/NZ

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/21/00 (A)
M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/21/00 (A)
M-24-46	Install Three (3) Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)
M-24-47	Install Four (4) Additional Wells at SST WMA T	12/31/00	12/27/00 (A)
M-24-48	Install Three (3) Additional Wells at SST WMA TX-TY	12/31/00	12/27/00 (A)
M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/27/00 (A)
M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement	12/31/00	11/01/00 (A)
M-24-49	Install Three (3) Additional Wells at SST WMA S-SX	4/30/01	3/27/01 (F)
M-24-50	Install Two (2) Additional Well at SST WMA TX-TY	4/30/01	2/06/01 (F)
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	6/30/01	6/30/01 (F)
M-15-38A	Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Waste Group Proposed Plan / Proposed RCRA Permit Modification	11/30/01	11/30/01 (F)
M-13-00L	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/01	*
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	4/23/01 (F)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required	12/31/01	12/31/01 (F)

Green

[Grey Box]

Green

**M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue was discussed with the regulators at the last Tri-Party Agreement (TPA) Quarterly Review on December 19.*

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

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

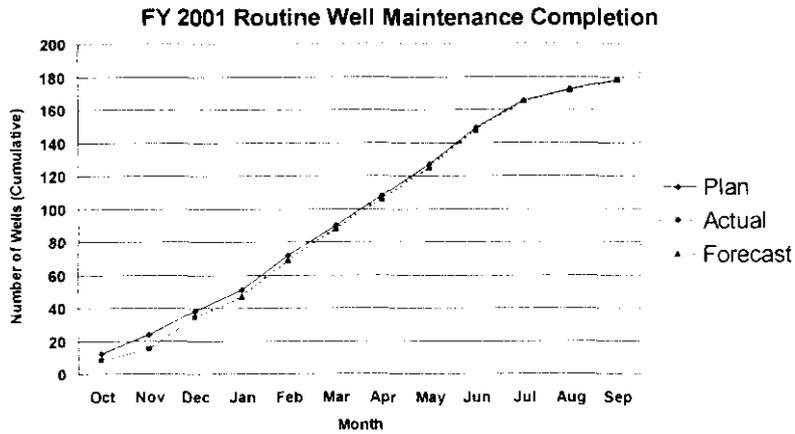
PERFORMANCE OBJECTIVES: GW/VZ

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
GW – ISRM Barrier	3%	3%	<ul style="list-style-type: none"> Drill 24 wells and inject sodium dithionite by 9/30/01 	<p><i>Critical path activities on schedule. Schedule variance impacted by behind schedule condition of RCRA well drilling contamination issue. Anticipate well completion recovery by 3/30/01. Waste issues will continue while Project pursues Ecology's "contained-in" approach.</i></p>
Tritium Plume	3%	3%	<ul style="list-style-type: none"> Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01 (*Stretch) 	<p><i>Work has commenced via approved trend.</i></p>

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

PERFORMANCE MEASURES/METRICS: GW/VZ



Green

Cumulative	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Plan	12	24	38	51	72	90	108	127	149	165	172	178
Actual	8	15	34									
Forecast				47	69	88	106	125	148	165	172	178

Notes: Plan: Well Maintenance is planned on a quarterly basis and spread evenly by month for purposes of this graph.
Forecast: When wells are "released" to the subcontractor for maintenance, he is given 90 days for completion. That is also spread evenly by month for that 90-day period for this graph

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY01 GW/VZ "Stretch" Goals	Estimated PI Dollars (K)	Approved BCPs (K)
<i>Tritium Plume at 618-11 Burial Ground - Collect GW Samples by 9/30/01</i>	\$500.0K	
S/Total GW - Vadose Zone Stretch Goals:	\$500.0K	\$0K

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

• **Schedule:**

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER02 ZOO Area Remedial Actions</i>	589	426	(163)
ER08 Groundwater Management	7,048	6,013	(1,035)
VZ01 Groundwater / Vadose Zone	3,203	2,649	(554)
TOTAL Groundwater	10,840	9,088	(1,752)

Green

PBS-ER02 – ZOO Area Remedial Action (Assessment)

Schedule Variance = **(\$163K); (27.7%)** [Last Month: (\$121K); (32.1%)]

Cause: Pre-job work on process and tank waste and Gable Mountain feasibility study development are being performed in a different sequence than originally planned.

Resolution: Temporary negative variance; negative variance will show recovery later in the fiscal year.

PBS-EROB – Groundwater Management

Schedule Variance = **(\$1035K); (14.7%)** [Last Month: (\$862K); (18.5%)]

Cause: RCRA well drilling schedule impacted due to contaminated soil encountered during well drilling, and RCRA waste shipments placed on hold

Resolution: Discussions are ongoing to resolve pending waste disposition.

Cause: Well decommissioning delays caused by extended well document search and selection.

Resolution: The project is updating documentation to accurately account for Hanford wells so decommissioning can continue.

Cause: Groundwater monitoring activities are behind schedule.

Resolution: A proposal has been submitted to RL to reduce the FY01 scope.

PBS-VZ01 – Groundwater / Vadose Zone

Schedule Variance = **(\$554K); (17.3%)** [Last Month: (\$545K); (22.6%)]

Cause: Variance due to additional time required for the preparation of the data configuration procurement document, and delay in implementing new DOE guidance for Software Engineering Methodology (SEM).

Resolution: An attempt will be made to identify efficiencies in an effort to mitigate the schedule variance. BHI has tailored new SEM requirements to documentation.

Cause: Conceptual Model Standardization activities experienced a delayed start due to the delay in obtaining a subcontractor.

Resolution: Activities have started, and are progressing. A portion of this work has been identified as duplicate scope that will be addressed through change control. Not critical path activity; delay impact is minimal.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

Cause: Data gathering for System Assessment Capability (SAC) took longer than planned due to inventory work having unexpected carryover work (identified after DWP preparation) that needs to be accomplished before history matching can be completed

Resolution: Impact on the overall schedule will be minimal because inventory had approximately one month of float relative to other history matching activities

■ **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
<i>ER02</i> <i>200 Area Remedial Actions</i>	4,895	426	351	75
<i>ER08</i> <i>Groundwater Management</i>	30,096	6,013	5,884	129
<i>VZ01</i> <i>Groundwater/Vadose Zone</i>	11,649	2,649	2,654	(5)
TOTAL Groundwater	46,640	9,088	8,889	199

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

ZEGULATORY ISSUES GW/VZ

Monitoring Wells: *Tritium investigation is being conducted near the 618-11 Burial Ground.*

Green

Status: *The groundwater grab results from the boreholes drilled for the 618-11 soil gas investigation have been evaluated. The groundwater grabs from boreholes C3264 and C3265 were to assess tritium levels in the groundwater and assist in the determination of a correlation between groundwater concentrations and the measured helium ratios.*

As previously reported, borehole C3264 (about midway along the northern boundary of the 618-11 Burial Ground) was completed to groundwater, and a groundwater grab sample was collected on October 9. The initial results from the C3264 groundwater grab indicated tritium levels less than 30,000 pCi/liter. A split sample taken by the Department of Health gives the result of about 6,000 pCi/liter. The detection limits were much lower at laboratory used by the Department of Health.

Borehole C3265 (in the Energy Northwest parking lot, east of the 618-11 Burial Ground) was completed to groundwater, and a groundwater grab sample was collected on October 13. The results of this sample are 1.5 million pCi/liter. This borehole is about 80 meters down gradient from well 699-13-3A. The split sample taken by the Department of Health corroborates this result.

BCP 21093 is in the review process and will be submitted to RL in January to rescope the FY01 effort to address the groundwater plume and minimize soil gas work. This BCP identifies all remaining investigative activities.

200-ZP-2: *Need for enhanced characterization, enhance removal efficiency, and Dense Non-Aqueous Phase Liquid (DNAPL) investigation.*

Green

Status: *A preliminary cost estimate and proposal submitted by a potential contractor have been reviewed by a subpanel of the GW/VZ Integration Project's Expert Panel. A meeting was held on November 7 with the regulators, DOE, and contractors to discuss a path forward on DNAPL investigation. It was agreed that the Partitioning Interwell Tracer Test (PITT) was too expensive for a speculative location of the test. The test will be put on hold for the time being. The installation of a groundwater well close to the Plutonium finishing Plant (PFP) as well as the deepening of two vadose wells near the Z-9 crib, are scheduled to be completed this fiscal year to obtain characterization information. A meeting will be held in late December with the regulators, DOE, and contractors to plan characterization efforts. Given that the PITT is on hold, the soil vapor extraction system will start operations April 1, 2001.*

Current activities include the preparation of BCPs to address the need to obtain characterization data during the well deepening at the Z-9 crib, and to resume 200-ZP2 operations. Planning is underway for the construction of a new groundwater well at PFP. These actions will close all outstanding issues between DOE, the Regulators and contractors.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

ZEGULATORY ISSUES continued: GW/VZ

Purgewater Secondary Waste Management: There is a discrepancy in the interpretation of the Purgewater Strategy applicability. Direction was given by RL to become compliant with all land disposal restriction (LDR) requirements.



Status: An interim phase was initiated, and a screening was completed for the potential listed waste codes to be applied. Activities on Site will be conducted as planned, with a conservative application of the listed waste codes to the secondary wastes. A long-term resolution has also been accepted by RL, to conduct a Listed Waste Applicability Assessment to minimize the listed waste codes to be applied on this waste stream. A letter coordinating the Site contractors' suggestions for improving the Purgewater Strategy was issued November 20 per DOE's request. A meeting was held on January 10, 2001 with both regulators, EPA and Ecology, to kickoff the discussions regarding the Purgewater and IDW strategies review. All parties agreed on the importance of completing this review effort as soon as possible. Purgewater strategy was given a higher priority, and technical meetings will start shortly after this kick-off meeting. It was agreed by all parties to provide the necessary resources to complete reviewing and modifying these strategies by June 1, 2001.

M-13-00x and M-20-xx Series: RL management, working closely with the Environmental Protection Agency (EPA), Ecology, and the Hanford Advisory Board (HAB), has developed a more streamlined approach for the remediation of the 200 Area non-tank farm related operable units on the Hanford Site. The existing baseline for soil characterization in the 200 Area Remedial Action Project shows a completion of the characterization of 23 operable units by the year 2008. The new streamlined approach calls for completion of the characterization of 12 representative analogous waste site operable units by 2008.



Status: RL will work with the regulators to establish revised interim M-13 and M-20 milestones based on the Improved approach to 200 Area assessment which supports the Hanford site outcomes. It is anticipated that M-13-00x major milestone adjustments can be addressed with the regulators once the revised FY02 DOE budget is approved.

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 Projects (SM&T)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end December.
All other data as of January 25, 2001 (unless otherwise noted).**

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

ACCOMPLISHMENTS: SM&T

Surveillance and Maintenance. S&M activities that were performed in December to ensure inactive facility integrity and safety included the following.

- Successfully completed the asbestos abatement and cleanup on the 6 Reactor exhaust fan room roof
- Conducted three tours of B Reactor. Reactor visitors included representatives from the Arms Control community, HQ, and DOE ISMS conference attendees.
- Commenced "kick-off" of the expanded Engineering Evaluation/Cost Analysis (EE/CA) effort in support of B Reactor hazards mitigation study. A baseline change proposal (BCP) was approved to provide additional EE/CA funding to include a more complete hazard mitigation evaluation.
- Successfully transferred contaminated scaffolding from the PUREX facility to Fluor Hanford (FH) for decontamination and redeployment to other Hanford projects. This effort represented a significant cost avoidance.
- Continued backfill of the 218-W-2A waste burial site. To date, over 14,624 cubic meters (16,000 cubic yards) of backfill have been applied.
- Issuance of the approved SAP for hexone tank sampling.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary

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
FEBRUARY 2001**

PERFORMANCE OBJECTIVES: SM&T

None identified at this time.

PERFORMANCE MEASURES/METRICS: SM&T

None planned in FY01.

STRETCH AND SUPERSTRETCH GOALS: SM&T

None identified at this time.

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

- **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER05 Surveillance & Maintenance</i>	4,147	3,363	(784)
<i>ER07 Long-Term Surveillance & Maintenance</i>	3	3	0
TOTAL SM&T	4,150	3,366	(784)

Green

PBS-ER05 – Surveillance and Maintenance

Schedule Variance = **(\$784K); (18.9%)** [Last Month: (\$151K); (6.6%)]

Cause: The time required to review/evaluate new sampling and video equipment specified in the *HEXONE* Tank Project data quality objective (DQO) has taken longer than originally planned.

Resolution: Sampling and video taping of the tanks interior contents will occur simultaneously, compressing the existing schedule; recovery is expected over the course of sampling and interim stabilization activities.

Cause: The original Asbestos Abatement work scope was turned down per the Plant Forces Work Review (PFWR) delaying the start of work.

Resolution: A subcontract is being prepared to execute work scope activities. Work is to start in April 2001 and complete by the end of August; a *BCP* is being prepared to adjust schedule. For cost effectiveness the 200 and 100 Areas were combined.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Schedule Variance = N/A

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
FEBRUARY 2001**

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

■ cost:

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
<i>FR05</i> Surveillance & Maintenance	13,920	3,363	3,112	251
ER07 Long-Term Surveillance & Maintenance	57	3	0	3
TOTAL SM&T	13,977	3,366	3,112	254

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = \$251K; 7.5% [Last Month: \$136K; 6.4%]

Cause: Cost underruns were due to planned resources in the baseline not aligning with actual work performed in the field, offset by higher than anticipated costs associated with concrete core sampling at the 221-U Canyon,

Resolution: After reviewing maintenance work scope activities planned in the Detailed Work Plan (DWP), the cost underruns are not expected to be offset; a performance trend will be prepared documenting resource underruns. A portion of the overrun at CDI will be recovered with expected savings from shipping samples to an offsite laboratory for analysis (expected in January).

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Cost Variance = N/A

REGULATORY ISSUES: SM&T

None identified at this time.

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: SM&T

Successfully transferred contaminated scaffolding from the PUREX facility to Fluor Hanford (FH) for decontamination and redeployment to other Hanford projects.

Pacific Northwest National Laboratory Environmental Management Performance Report

February 2001

**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**

Table of Contents

INTRODUCTION1

EXECUTIVE SUMMARY.....2

 SAFETY OVERVIEW2

 COST/SCHEDULE PERFORMANCE STOPLIGHT3

PROJECT PERFORMANCE SUMMARY4

 MISSION4

 ACTIVITY SUMMARY4

 PERFORMANCE DATA AND ANALYSIS.....5

 BASELINE PERFORMANCE OUTCOMES, OBJECTIVES, AND MEASURES ...7

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.

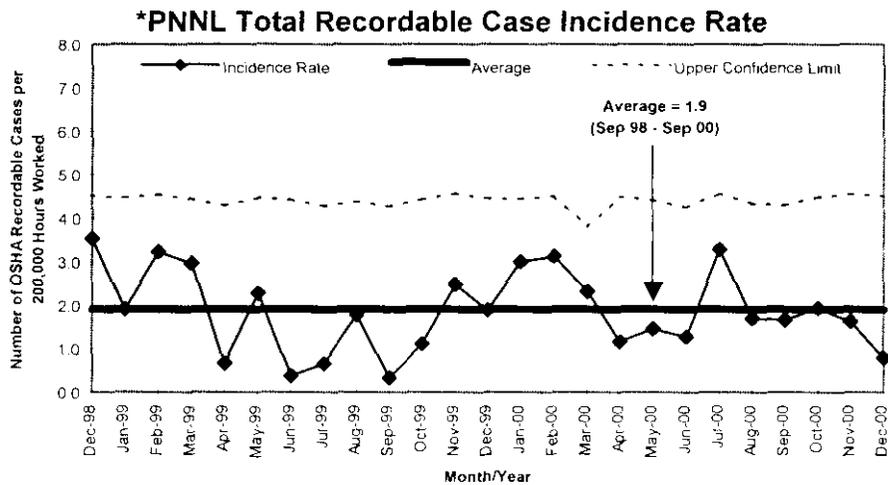
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-11 1a, PNNL's Project Status Report for December 2000. Summary analyses pertaining to PNNL's 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 December 31, 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 overview of safety, a summary of FY 2001 performance, a summary of Fiscal Year (FY) 2001 Voluntary Protection Program (VPP) activities, followed by a stoplight chart on overall performance.

Safety Overview

The focus of this section is on documenting trends in work-related injury and illness rates. These are the same performance indicators as appear in the FY2001 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the continued implementation of the Integrated Safety Management System (ISMS), and the development and implementation of the Voluntary Protection Program (VPP).

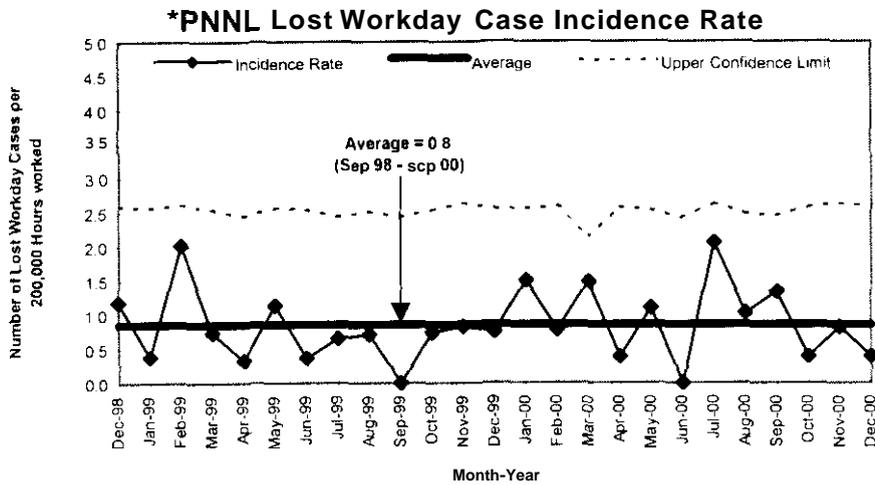


FY 01 Rate Overview:
 Cumulative To Date = 1.5
 Lab Specified Level ≤ 2.2

This indicator has been generally stable over the long term. The data for FY01 continue to randomly fluctuate within the anticipated control limits.



*Includes all Pacific Northwest National Laboratory Operations.



FY 01 Rate Overview:
 Cumulative To Date = 0.5
 Lab Specified Level ≤ 1.1

This indicator has been generally stable over the long term. The data for FY01 continue to randomly fluctuate within the anticipated control limits



*Includes all Pacific Northwest National Laboratory Operations

Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*



- Green: Satisfactory
- Yellow: Significant improvement required
- Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, upcoming baseline change requests, if any, for the period covered, and quarterly status on baseline performance outcomes, objectives, and measures. In FY 2001, Battelle Memorial Institute has lead responsibility over PBS RI-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.

Activity Summary

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during December 2000.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Inspections were completed for all facilities scheduled, which included the 1614-D3 building, the Fitzner-Eberhardt Arid Land Ecology Reserve buildings: 6652-C, D, H, G, M, I, J, the upper and lower pump houses, the shed, and the small observatory. No issues of significance were noted in any of the facilities.
- Scheduled routine waste management activities were performed during the period. All air and water samples required during the month of December were collected, and confirmed that all routine effluent discharges from Pacific Northwest operations reported to date are below historical release levels and compliant with existing state and federal permits.
- Sixty-eight National Environmental Protection Act (NEPA) reviews were completed on experiential projects within the Laboratory to ensure that the associated project scope will not have potential to create environmental risks. On December 5, the DOE-RI NEPA compliance officer approved a Categorical Exclusion (CX) that addresses the acceptance of offsite samples at the Hazardous Waste Treatment Unit (HWTU) in the RPL. This CX will allow Pacific Northwest to provide research into waste treatment and disposal methods to outside clients such as other Hanford contractors, other national laboratories, and other DOE complex sites. The approval of the CX is expected to result in greater flexibility and use of the HWTU.
- Four complete primary containers and two partial primary containers of the High-Dose Waste transferred from the RPL Shielded Analytical Lab (SAL) to the High Level Radiochemistry Facility (HLRF) were packaged for load out. Thirty pairs of gloves within the KIL Room 604

Glove box are being replaced to allow cleanup to continue

Performance Data and Analysis

As of December 31, 2000 the cumulative costs are \$2.7 million with a negative cost variance of \$0.2M and a cumulative schedule variance of negative \$0.4M. The cost variance is within the 10 % reporting threshold. A brief explanation for the variances will be described following the tables and chart.

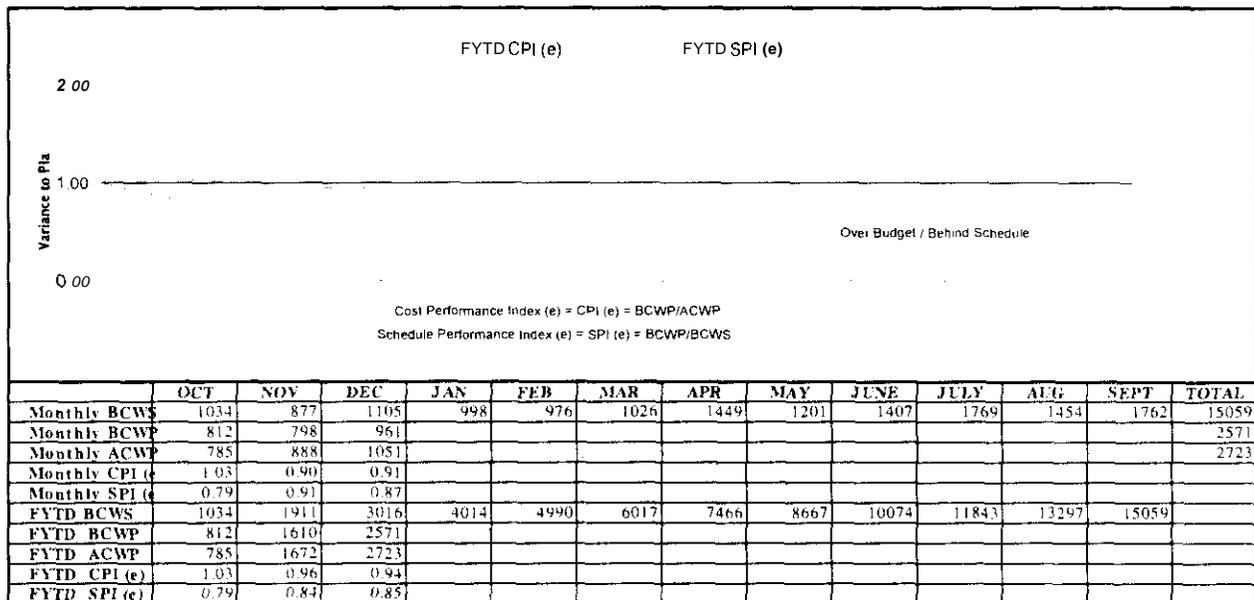
PNNL Waste Management	\$2.6	\$2.7	(\$0.2)
	BCWP	BCWS	Variance
PNNL Waste Management	\$2.6	\$3.0	(\$0.4)

FY 2001 Cost/Schedule Performance - All Fund Types Cumulative to Date Status - (\$000)

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	\$3,016	\$2,571	\$2,723*	(\$152)	-6	(\$445)	-15
Total		\$3,016	\$2,571	\$2,723*	(\$152)	-6	(\$445)	-15

* Numbers reflect PNNL system; per DISCAS actuals, including \$ expended by Fluor for S&M of 242B/BL, are only \$2,715.3K.

Cost / Schedule Performance Indices FY 2001 Cum to Date Status



The negative cost variance of \$0.2M primarily results from completing FY 2000 scope offset by delayed billings. In addition, FY 2001 rates have been finalized and are higher than anticipated during the planning process. The impacts of the cost increase will be incorporated in the baseline change request submitted January 9th that also includes carryover activities.

The schedule variance for December, of negative \$0.4M, is above the 10% threshold. The primary activities making up the negative schedule variance are as follows:

- Delays have been encountered within the Program awaiting resolution of FY 2001 funding allocations. Resolution on funding was received following the November Site Management Board meeting. Some activities needed to be deleted or deferred and revisions to scheduled activities associated with funding allocations were included in baseline change request submitted January 9th.
- Delays were encountered with procurement of High Dose Solid Waste shielded drums. As a result of this delay the drum shipping dates for the 73 cans of transuranic (TRU)/low-level waste (LLW) was pushed into the first quarter of FY 2001.
- Delays have been encountered in design and engineering efforts for the heating, ventilation, and air conditioning (HVAC) controls upgrade/replacement within the Radiochemical Processing Laboratory (RPL). Resources are reviewing proposal for combined HVAC controls and switchgear replacement within the facility. Delays are not expected to impact completion date.
- The integrity assessment of the radioactive liquid waste tank (RLWT)-piping is currently on hold with no defined completion date. The integrity assessment and associated waste processing continues to be delayed because the 204-AR Facility (receiver facility) is not ready, and Pacific Northwest does not want to add any liquids to the tank to make it a radiologically controlled tank until the receiver facility is ready.

Baseline Performance Outcomes, Objectives, and Measures

The baseline performance outcomes, objectives, and measures for PNNL. Waste Management address "what are we doing." These measures are tied directly to the baseline and are maintained within baseline documentation. The information in the following table reflects the status against the measures for the first quarter of FY 2001.

<u>RL Objective</u>	<u>RL Multi-bear Performance Measure</u>	<u>Performance Measure</u>	<u>Proposed FY 2001 EM Commitment: Y/N</u>	<u>TPA # CMM #</u>	<u>FY 2001</u>
RL Outcome: Put DOE assets to work for the future					
Operational Excellence	Operate in a manner conducive to excellence and quality	Conduct routine operational activities to comply with statutory and regulator requirements. specifically number of non-compliances (NOVs) related to environmental permit requirements <i>Status:</i> There were no non-compliances during the first quarter FY-2001.	No		<2
Operational Excellence	Operate in a manner conducive to excellence and quality	Maintain fiscal year end cost and schedule variances within established thresholds <i>Status:</i> The WMOC Program cost variance for the first quarter is -\$152K (-6%) and is well within established thresholds. The schedule variance is -\$445 K (-15%). Though slightly above established thresholds, variances will be reduced following approval of change requests.	NO		+/- 10%
Safety	Protect workers, the public and the environment	Initiate appropriate response to any unsafe condition Identified during surveillance and maintenance of EM facilities assigned to PNNL within x days of discovery (as shown to the right) <i>Status:</i> To date surveillances have not identified any unsafe conditions in shutdown facilities. Only minor maintenance items have been noted and they have been appropriately addressed with service requests. No unsafe conditions have been discovered in RPL that have resulted in an appropriate response initiation greater than one day. Any unsafe condition discovered in RPL is addressed immediately.	No		1
Safety	Protect workers, the public and the environment	Quantity of HAZ waste (MI) shipped for storage or disposal <i>Status:</i> During the first quarter of FY 2000, 7,458 Kgs of non-radioactive hazardous wastes were shipped for offsite treatment and disposal. This is in line with expected generation rates for FY 2001. As is typical, waste generation is lower during the first part of the FY due to project ramp up activities.	No		81,000
Safety	Protect workers, the public and the environment	Quantity of LLMW (m3) shipped for storage or disposal <i>Status:</i> During the first quarter of FY 2000, 0.416 Cubic meters of LLMW (Mixed Waste) were shipped.	No		22

<u>RL Objective</u>	<u>RL Multi-Year Performance Measure</u>	<u>Performance Measure</u>	<u>Proposed FY 2001 EM Commitment: Y/N</u>	<u>TPA # CMM #</u>	<u>FY 2001</u>
Safety	Protect workers, the public and the environment	Quantity of LLW (m3) shipped for storage or disposal <i>Status:</i> During the first quarter of FY 2000, 7.072 cubic meters of LLW (Low Level Waste) were shipped.	No		150
Safety	Protect workers, the public and the environment	Quantity of TRU waste (m3) shipped for storage or disposal <i>Status:</i> During the first quarter of FY 2000, no TRU (Transuranic waste) was shipped.	No		6
Safety	Protect workers, the public and the environment	Radiochemical Processing Lab (RPL) Authorization Basis maintained current per scheduled milestone <i>Status:</i> Currently no safety issues exist in the RPL. As issues are identified, they are immediately addressed and mitigated.	No	RLST013 104	7/31/2001
RL Outcome: Restore the river corridor for multiple uses					
Disposition Surplus Buildings	Number of buildings dispositioned	Dispose remaining PNNL legacy waste by completing x% (shown to the right) of the Legacy Waste Project lifecycle baseline <i>Status:</i> Progress continues on the items in the baseline including significant progress on Special Case Waste, disposition of 1.5 metric tons of Uranium, and glove box remediation. A recent effort was completed to identify a streamlined means of accelerating backlog work off, which will be implemented starting in January of 01. Total earned value this quarter is 2%.	No		7%
Disposition Surplus Buildings	Number of buildings dispositioned	Number of excess buildings/facilities transferred or torn down <i>Status:</i> A MOA was drafted, reviewed, and started in the signature cycle for the transfer of 25 facilities to the contractors who are specialists in the next stages of facility final disposition. Transfer of these facilities is anticipated for this fiscal year.	No		2
Disposition Surplus Buildings	Number of buildings dispositioned	Percentage completion of annually scheduled legacy waste and contamination milestones <i>Status:</i> No milestones are due until later in the year.	No		>95%
Disposition Surplus Buildings	Number of buildings dispositioned	Support timely completion of TPA M-92-14: Complete disposition of ~ 6 kgs of PNNL SNF legacy waste by x date (9/30/2001) <i>Status:</i> The completion of the design documents, SARP, was completed; procurement of the drums is 99% complete. Gathering the necessary information for disposition of the material is underway.	No	RLST014 103 M-92-14	
Disposition Surplus Buildings	Number of buildings dispositioned	Support timely completion of TPA M-92-14: Complete disposition of legacy HD-LLW and RH-TRU waste from PNNL Radiochemical Processing Laboratory hot cells by x date (shown at the right) <i>Status:</i> The completion of the design documents, SARP, was completed, procurement of the drums is 99% complete, and the majority of the work scope associated with the packaging of the material is completed. A change request is in the approval process to revise the completion date of this milestone to 6/30/2001.	No	RLST014 003 M-92-14	12/31/2000

<u>RL Objective</u>	<u>RL Multi-Year Performance Measure</u>	<u>Performance Measure</u>	<u>Proposed FY 2001 Ehl Commitment:</u> Y/N	<u>TPA #</u> <u>CMM #</u>	<u>FY 2001</u> <u>FY</u>
Reduce risks to the Columbia River from ground water contamination	Number of soil sites addressed	Number of Waste Identification Data System Sites assigned to PNNL, dispositioned (rejected, transferred or closed)	No		0
<p><i>Status:</i> The operational history of the 200-W-16 WIDS site was researched in preparation for transition to Fluor. The 323 Tanks WIDS site will be taken in exchange. This exchange brings a better operational alignment, which will enable more efficient management of the sites. Letters for transfer are being drafted.</p>					
Reduce risks to the Columbia River from ground water contamination	Number of soil sites addressed	Percentage of Waste Identification Data System sites characterized and associated surveillance/ maintenance established.	No		100%
<p><i>Status:</i> All waste sites have basic characterization data, and identified S&M is being accomplished.</p>					

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 conipliance 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 RCWP 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.