

Environmental Management Performance 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

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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 (RAWWD) 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.

Section A: Executive Summary

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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

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NOTABLE ACCOMPLISHMENTS continued:

CENTRAL PLATEAU:

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 (200-PW-2) Work Plan" (due December 31) and M-13-00K, "Submit One 200 NPL 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 B Reactor exhaust fan room roof. The expanded Engineering Evaluation/Cost Analysis (EE/CA) effort was also initiated 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.

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

Green

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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 100 BC, 100 DR, and 100 HR Operable Units" (due February 28, 2001). Three new interim milestones are being proposed that will establish the start and completion dates for the 100 B/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

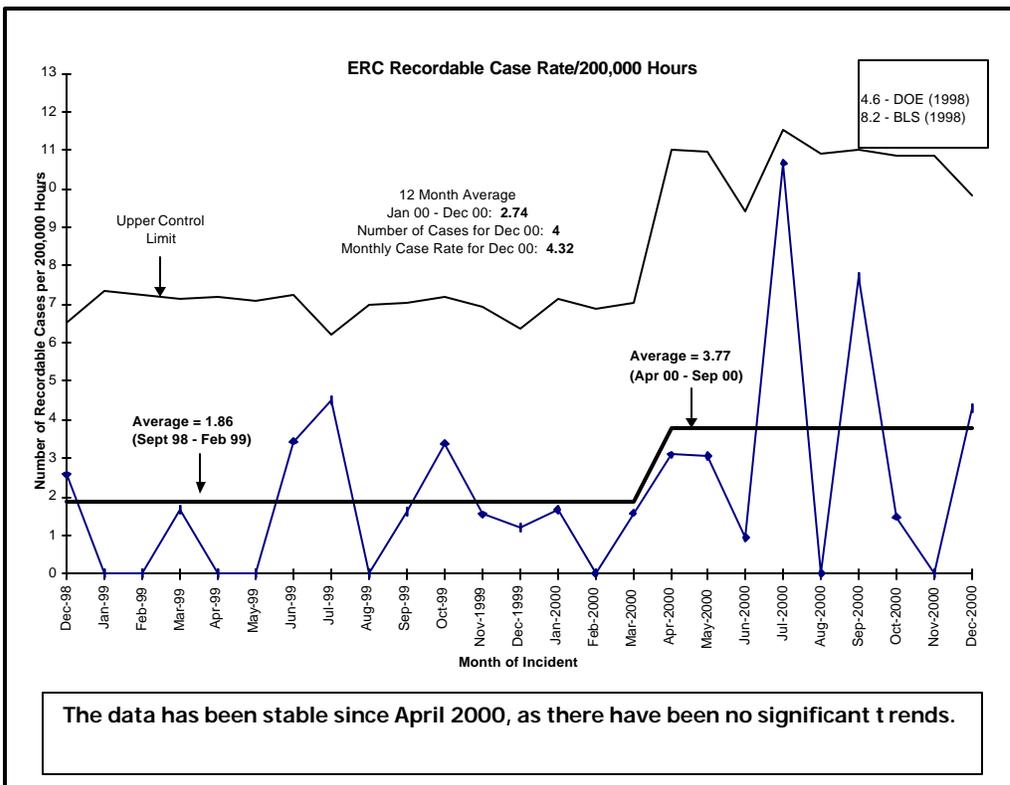
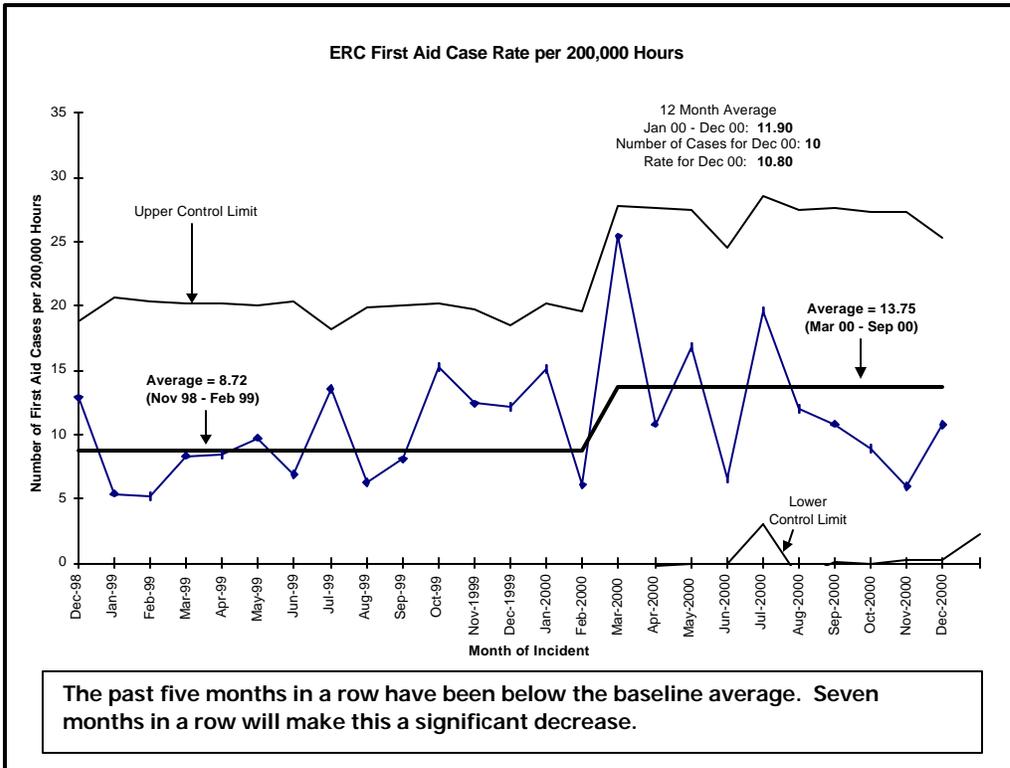
	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Forecast for FY01	Completed YTD
Waste Site Excavations	12	12	16	16	5
*Technology Deployments	0				

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

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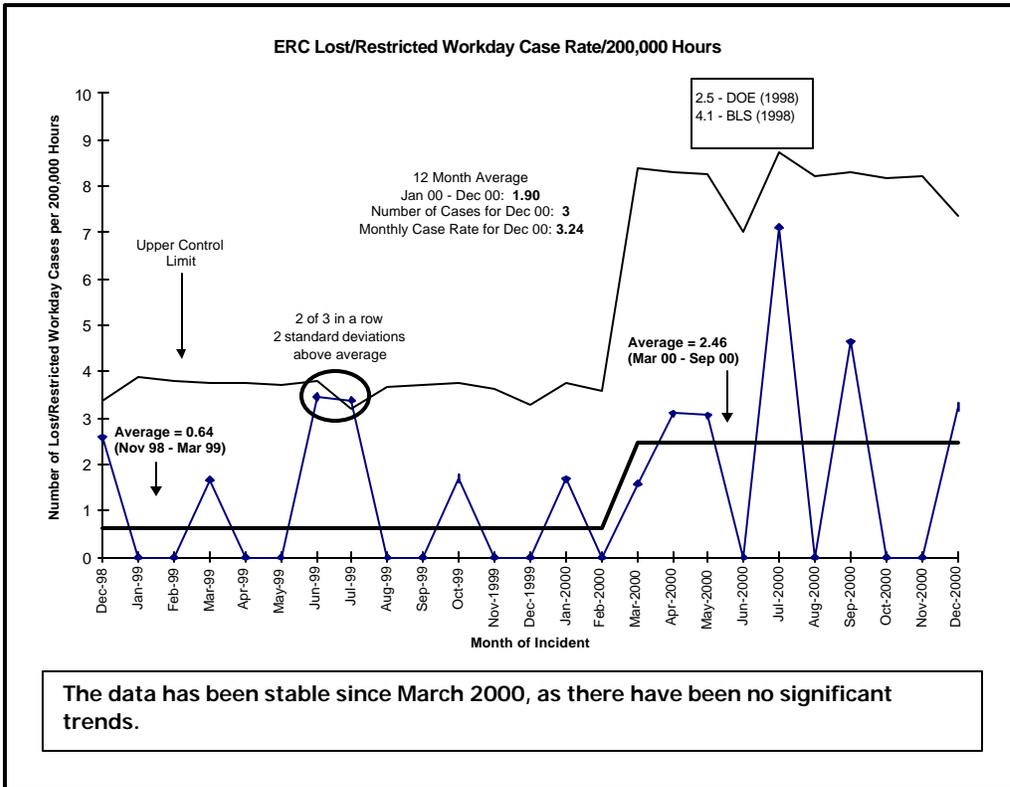
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):



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

Yellow



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.

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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.)

Yellow

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.

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

ISMS:

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.*

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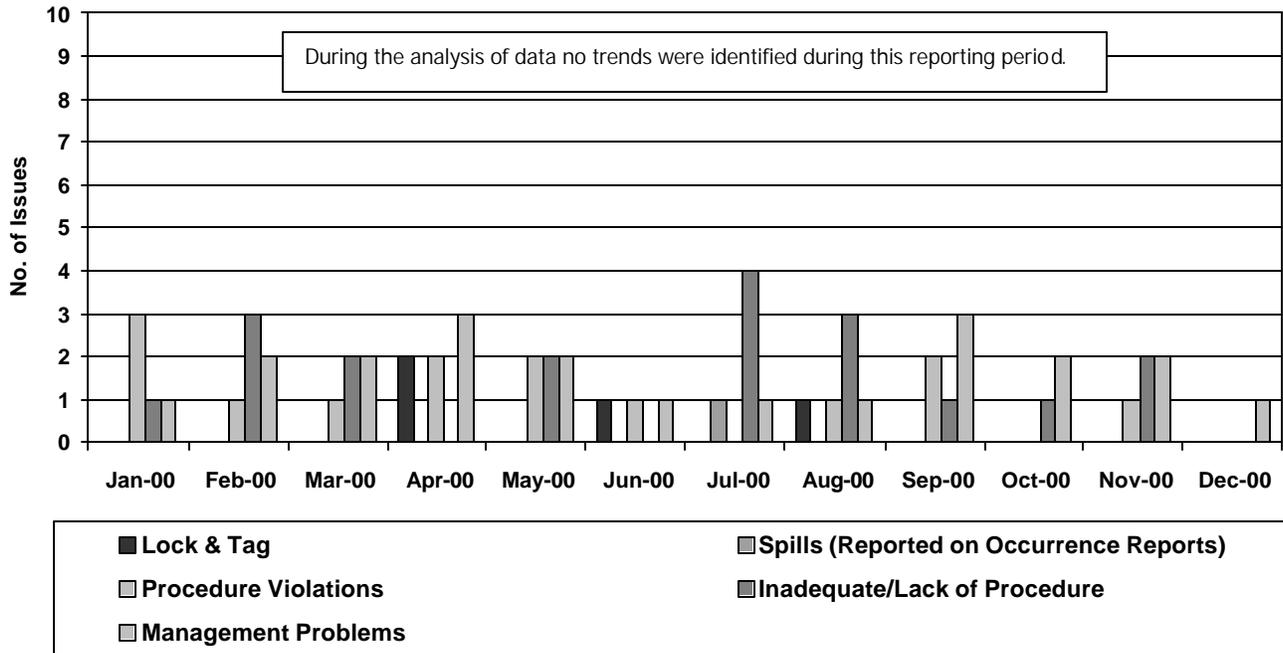
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

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:

- 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.
- 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.
- 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.



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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.

Green

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.

Green

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.

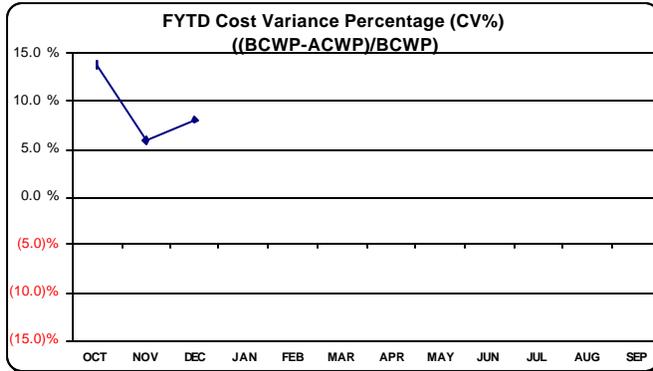
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REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

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

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TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):

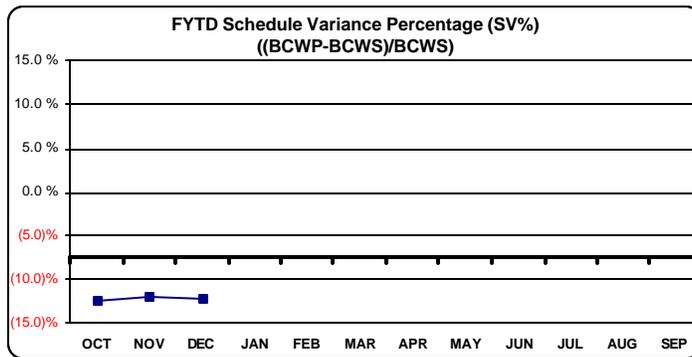


Green

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 PBS, see Project Status Section of each project.

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

**FY01 PERFORMANCE
FYTD DECEMBER 2000
(\$K)**

	FY01 DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
			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	418	-297	-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 GW/VZ	10833	11534	3203	2649	2654	-554	-17.3%	-5	-0.2%	11649
GW/VZ-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
S&M-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.

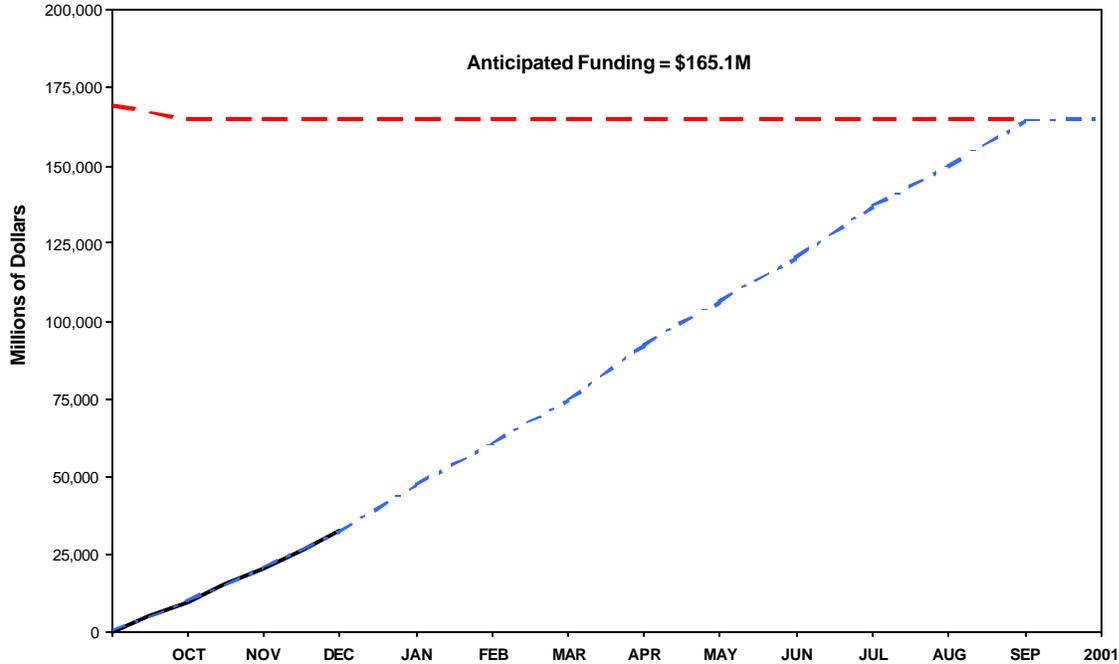
Schedule Variance Summary

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.

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

FY2001 Funds Management



	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				(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(5)	0	(61)
5 ER02 BCP-21076 Defer 200-CS-1 Field Scope Into FY02				(17)	(54)	(180)	(280)	(95)	(51)	(27)	(23)	(45)	0	(772)
6 ER04 BCP-21013 R1 Correct ERDF Spreadsheet				(36)									0	(36)
7 ER04 BCP-21014 R1 Correct ERDF Spreadsheet									(33)				0	(33)
8 Subtotal Approved Scope Changes				(60)	(61)	(187)	(287)	(102)	(91)	(34)	(30)	(50)	0	(902)
FY2001 PENDING BCP'S														
9 ER05 BCP-21066 S/M&T Scope Reductions due to Funds Reduction (Additional S&T Scope Pending, Offsets Reduction)											(600)		0	(600)
10 ER06 BCP-21088 Delete Pourback Duplicated for F & DR				(116)									0	(116)
11 ER08 BCP-21085 (PNNL) Groundwater Scope Reductions to Offset Funds				(231)	(32)	(42)	(50)	(47)	(17)	10	4	5	0	(400)
12 ER08 (PNNL) EAC Error				336									0	336
13 ER08 618-11 Tritium Inv. Plume Nature & Characterization (Stretch)				4	31	49	74	16	63	244	51	63	0	595
14 ALL Pending Scope Reductions/Efficiencies				(129)	(130)	(130)	(130)	(130)	(130)	(130)	(130)	(130)	0	(1,169)
15 Subtotal January FY2001 Approved BCP's + Pending BCP's				(196)	(192)	(310)	(393)	(263)	(175)	90	(705)	(112)	0	(2,256)
16 Current Monthly EAC + January FY2001 Approved BCP's & Pending BCP's	9,656	10,998	11,610	15,064	13,398	14,017	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 B and 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.

Green

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.

Green

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.1

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

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end 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 (non-ER workscope).

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 45,359 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
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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. 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.</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>	
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
See Executive Summary.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
None identified at this time.	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
None identified at this time.	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<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. 	

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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-DR-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 100 B/C 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 100 B/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
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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 	On schedule.
		10%	<ul style="list-style-type: none"> • Backfill 16 Sites by 9/30/01 	On schedule.
		10%	<ul style="list-style-type: none"> • 50,000 Additional Tons by 9/30/01 (*Stretch) <p><i>CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04</i></p>	Approximately 30% of Stretch undertaken as of 11/30/00.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

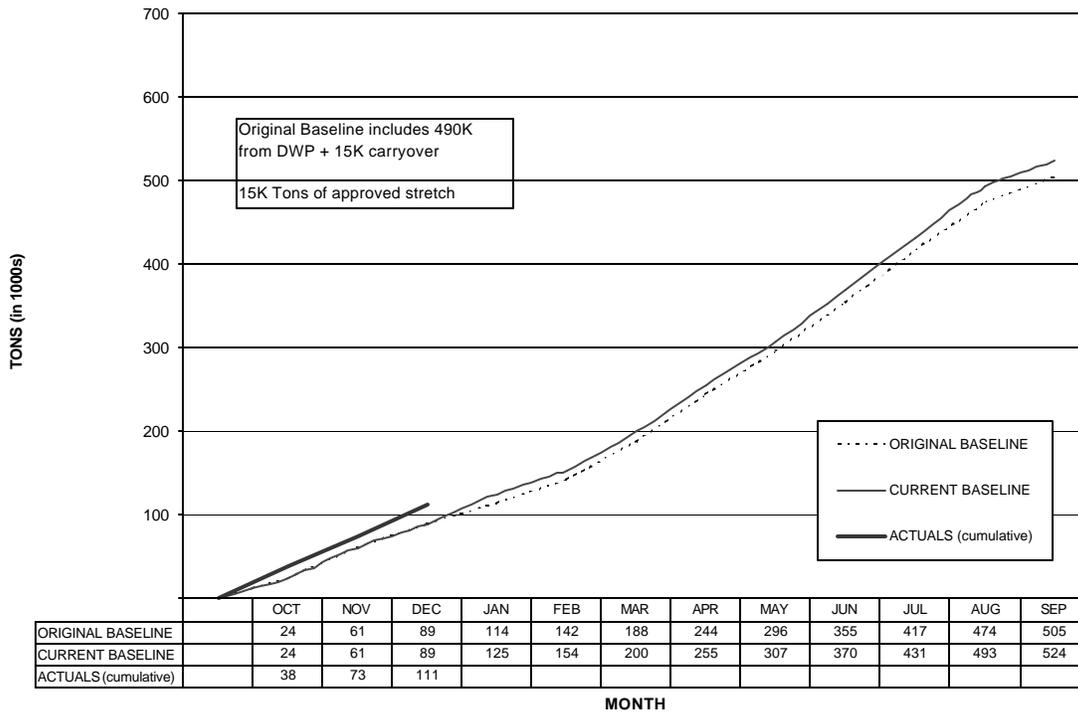
FEBRUARY 2001

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 100-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
ER01 100 Area Remedial Actions	6,720	6,258	(462)
ER03 300 Area Remedial Actions	770	473	(297)
ER04 ER Waste Disposal	3,981	4,237	256
TOTAL Remedial Actions	11,471	10,968	(503)

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **(\$462K); (6.9%)** [Last Month: (\$278K); (7.0%)]

Cause: Slower progress than originally planned on the 116-N-3 Crib demolition at the 100-NR-1 site due to higher site contamination, radiation, and demolition conditions different than planned. 100-BC-1 Near River Waste Sites subcontractor mobilization is behind schedule due to late submittals (contract was awarded two weeks late) resulting in a potential delay in readiness assessment and start of excavation.

Resolution: Other work is being planned and performed while the crib trough contamination and removal issues are resolved. 100-BC-1 risk assessment schedule recovery planned in the next few months. Increase coordination with subcontractor to improve submittal times.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **(\$297K); (38.6%)** [Last Month: (\$149K); (30.6%)]

Cause: Closeout Verification Package (CVP) scope has not been fully defined by the regulators; South Process Pond fence construction delayed pending old versus new material evaluation.

Resolution: Working with regulators to determine CVP scope resolution; fence construction has been initiated.

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = **\$256K; 6.4%** [Last Month: \$260K; 10.0%]

Cause: Waste shipments from 100F continue to exceed plan.

Resolution: None; moving scope forward lessens the impact of anticipated high demands later this year.

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 100 Area Remedial Actions	29,607	6,258	5,216	1,042
ER03 300 Area Remedial Actions	2,992	473	418	55
ER04 ER Waste Disposal	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
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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 100 B/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 HGP demolition (non-ER workscope).

Green

Decommissioning Projects (D&D)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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)

ACCOMPLISHMENTS: 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 fill 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 stairwells 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.
- Initiation 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.

Green

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.

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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 	Critical path activity on schedule.
		24%	<ul style="list-style-type: none"> • 7 additional vessels by 6/30/02 (*Stretch) <p><i>CV <5.0%; SV <7.5% for PBS ER-06</i></p>	BCP-21023 approved commencing Stretch.
ISS	11%	35%	<ul style="list-style-type: none"> • D Reactor Major Tasks by 9/30/01 	Critical path activity on schedule; received authorization funding in December.
		15%	<ul style="list-style-type: none"> • DR Reactor Major Tasks by 9/30/01 	
		35%	<ul style="list-style-type: none"> • F Reactor Major Tasks by 9/30/01 	
		15%	<ul style="list-style-type: none"> • H Reactor Major Tasks by 9/30/01 <p><i>CV <5.0%; SV <7.5% for PBS ER-06</i></p>	

Green

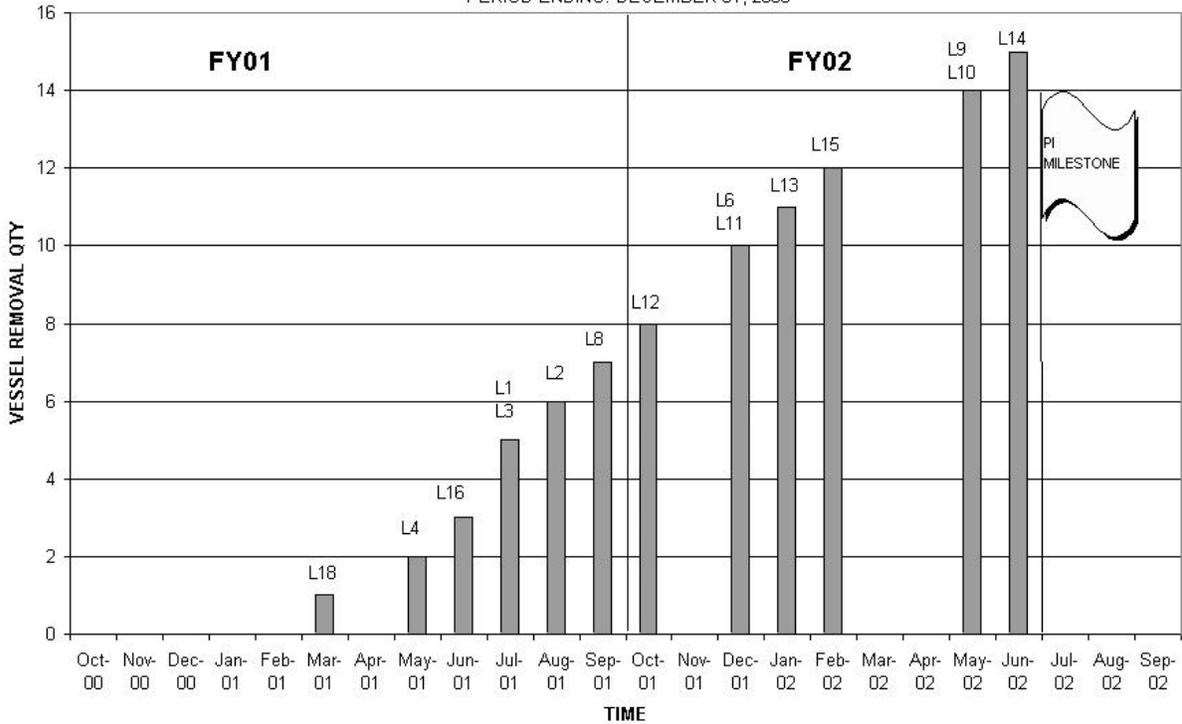
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PERFORMANCE MEASURES/METRICS: D&D

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 Fee)</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) work package 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 documentation 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 Decommissioning

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
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REGULATORY ISSUES: <i>D&D</i>	
<p><i>D and H Reactor Impacts of TPA Milestones:</i> <i>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.</i></p> <p>Status: <i>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 100 Area acceleration vision. Regulators concur with path forward.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: auto;">Green</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): <i>D&D</i>	
<i>None identified at this time.</i>	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): <i>D&D</i>	
<p><i>233-S Process Hood:</i> <i>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.</i></p> <p>Status: <i>Continue to work with the NDA provider to insure adequate support exists on a continuing basis.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: auto;">Green</div>
INTEGRATION ACTIVITIES: <i>D&D</i>	
<p><i>Coordinated fuel shipment requirements (to K Basin) with FH in event fuel is found during F and H basin demolition.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: auto;">Green</div>

Program Management and Support (PM&S)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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 100 D 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 FY00 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 cleanup 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 (IPABS) database, and the initial FY03 budget submittal.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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SAFETY/ISMS/CONDUCT OF OPERATIONS: <i>PM&S</i>
<i>See Executive Summary.</i>
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: <i>PM&S</i>
<i>None identified at this time.</i>
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>PM&S</i>
<div style="float: right; border: 3px double black; padding: 5px; text-align: center; width: fit-content;">Green</div> <p>Six Sigma: <i>The Waste Management Process Improvement Project (PIP#1) is 70% complete. The business plan for this PIP includes the following elements:</i></p> <ul style="list-style-type: none"> • <i>problem statement</i> • <i>project objectives</i> • <i>primary and secondary metrics</i> • <i>pareto graphs</i> • <i>swim lane process charts</i> • <i>failure method effect analysis</i> <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-RL 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): <i>PM&S</i>
<ul style="list-style-type: none"> • DOE Secretarial: <i>None identified at this time.</i>
<ul style="list-style-type: none"> • DOE EM Performance Agreement: <i>None identified at this time.</i>
<ul style="list-style-type: none"> • TPA Milestones: <i>None identified at this time.</i>
<ul style="list-style-type: none"> • DNFSB Commitment: <i>None identified at this time.</i>

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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

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

• **Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	7,615	7,313	(302)
ER10 RL Program Management & Support	1,378	477	(901)
TOTAL PM&S	8,993	7,790	(1,203)

Green

PBS-ER10 – Program Management and Support

Schedule Variance = **(\$1203K); (13.4%)** [Last Month: (\$695K); (12.7%)]

Cause: HEIS/HGIS/WIDS sample and data management requirements much greater than planned.

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
ER10 ERC Program Management & Support	31,008	7,313	6,570	743
ER10 RL Program Management & Support	6,381	477	477	0
TOTAL PM&S	37,389	7,790	7,047	743

Green

PBS-ER10 – Program Management and Support

Cost Variance = **\$743K; 9.5%** [Last Month: \$230K; 4.8%]

Cause: Special FY00 billing adjustment (underrun) on Rad Con manual.

Resolution: No action required.

Cause: Positive variance due to reversed accrual for a fee/rate adjustment on a prior year Basic Ordering Agreement with a subcontractor.

Resolution: Savings will be used to support other activities.

REGULATORY ISSUES: PM&S

None identified at this time.

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

None identified at this time.

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DOE-RL & 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.

Green

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.2

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

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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-3 Phase 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 FY00, 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

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ACCOMPLISHMENTS continued: GW/VZ	
<p><i>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.</i></p> <p>200 AREA ASSESSMENTS:</p> <p><i>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 NPL RI/FS (RFI/CMS) Work Plan (due December 31).</i></p> <p><i>Approval was received from Ecology for the 200-CW-1 (Gable Mountain/B Pond) Rev. 0 Work Plan.</i></p>	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ	
<i>See Executive Summary.</i>	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ	
<i>None identified at this time.</i>	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ	
<ul style="list-style-type: none"> • DOE Secretarial: <i>None identified at this time.</i> 	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: <i>None identified at this time.</i> 	

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

• **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	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 (RFC/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	12/31/01 (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

Yellow

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
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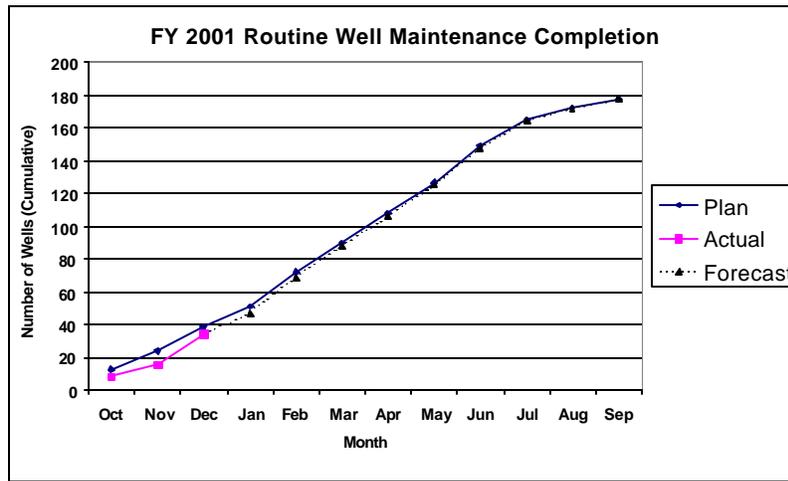
PERFORMANCE OBJECTIVES: *GW/VZ*

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>CV <5.0%; SV <7.5% for BHI portion of ER-08</i></p>	<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>
GW – 618-11 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>CV <5.0%; SV <7.5% for BHI portion of ER-08</i></p>	<p><i>Work has commenced via approved trend.</i></p>

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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

BCP submitted to RL on 1/19/01. The schedule reflects a 1/30/01 start.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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

• **Schedule:**

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER02 200 Area Remedial Actions</i>	589	426	(163)
<i>ER08 Groundwater Management</i>	7,048	6,013	(1,035)
<i>VZ01 Groundwater/Vadose Zone</i>	3,203	2,649	(554)
TOTAL Groundwater	10,840	9,088	(1,752)

Green

PBS-ER02 – 200 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-ER08 – 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
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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 200 Area Remedial Actions</i>	4,895	426	351	75
<i>ER08 Groundwater Management</i>	30,096	6,013	5,884	129
<i>VZ01 Groundwater/Vadose Zone</i>	11,649	2,649	2,654	(5)
TOTAL Groundwater	46,640	9,088	8,889	199

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **\$75K; 17.6%** [Last Month: \$43K; 16.8%]

Cause: Public review of process and tank waste group work plans were not required.

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

PBS-ER08 – Groundwater Management

Cost Variance = **\$129K; 2.1%** [Last Month: \$90K; 2.4%]

Cause: Groundwater monitoring accrual errors (PNNL). Underrun partially offset by rad soil findings at RCRA wells causing unplanned subcontractor standby time.

Resolution: Overrun RCRA well standby time is not expected to be recovered and reflected in the EAC.

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = **(\$5K); (0.2%)** [Last Month: \$74K; 4.0%]

Cause: Various underruns in planning and reviews are offset by an overrun in System Assessment Capability (SAC) development netting an overall on-budget situation.

Resolution: None required. SAC overrun will not be recovered and has been trended and reflected in the project EAC. Underruns will be used to perform other activities.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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REGULATORY 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 downgradient 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

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REGULATORY 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.*

Green

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.*

Yellow

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)

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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 B 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.

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PERFORMANCE OBJECTIVES: SM&T			
<i>None identified at this time.</i>			
PERFORMANCE MEASURES/METRICS: SM&T			
<i>None planned in FY01.</i>			
STRETCH AND SUPERSTRETCH GOALS: SM&T			
<i>None identified at this time.</i>			
PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): SM&T			
<ul style="list-style-type: none"> • 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 or 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

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

• **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
<i>ER05 Surveillance & Maintenance</i>	13,920	3,363	3,112	251
<i>ER07 Long-Term Surveillance & Maintenance</i>	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.