

Environmental Management Performance Report

May 2001



RAWDO Personnel Packaging a Container Load of Contaminated Soil from 116-F-14



Excavation at 116-N-3 Crib



Debris Loadout as Part of D Reactor ISS

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

Financial/Performance Measures data as of month-end March.
All other data as of April 26 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0104142.3

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION**

MAY 2001

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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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 March 31. Accomplishments, Issues and Integration items are current as of April 26, 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 March.
All other data as of April 26, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

In the 100 F Area, excavation activities progressed on the 116-F-14 Retention Basin plumes. Additional plumes estimated at 32,000 metric tons (35,000 tons) were also identified.

Internal review was completed for the 100 Area Burial Ground Preliminary Design Package during March. The Intermediate Design Package is scheduled for internal review at the end of April. The 300-FF-2 Intermediate Design review was also completed for the 618-5 Burial Ground during March. The final review package will be issued for review in mid April. Preparation continues for the Auditable Safety Analysis (ASA) for the 618-5 Burial Ground. Development of hazard identification and evaluation tables is also nearing completion.

The 300-FF-2 Kd (partitioning coefficient) uranium leachability study was initiated during the week of March 19. The uranium-contaminated soil samples were provided to Pacific Northwest National Laboratory (PNNL) on March 13 for analysis.

Excavation of the six contaminated stockpile areas in the 100 B/C Area was completed during March. Excavation activities continue on the contaminated soil areas. Potholing activities were initiated on the pipelines to help identify the extent of the contamination. Clearing and grubbing of the proposed overburden stockpile areas progressed.

Waste loadout was completed at the J.A. Jones waste site during March. The scales were moved to the 600-23 waste site, and loadout operations are underway.

Railroad track rails were excessed and then transferred to a local company for reuse in support of Hanford Site waste minimization efforts. The rails were removed during 100 D Area remediation activities.

The Request for Proposal (RFP) was delivered to potential bidders on March 16 for F and DR Reactors' Interim Safe Storage (ISS) roofs. Bids are due April 24.

The Brokk™ 330N was delivered to F Reactor Fuel Storage Basin (FSB) on March 20. The Brokk 330N is a remote-controlled excavator that will be used to excavate the remaining one meter (three feet) of sand and contaminated debris in the F Reactor FSB. Acceptance testing was completed on March 22. Additional in-house training and mock-up practice will continue for the next few weeks.

Asbestos abatement activities continued in both the H and D Reactors. Demolition and loadout activities were completed in two miscellaneous D Reactor areas.

A complete draft of the Historic Building Mitigation final report was submitted to the Advisory Council on Historic Preservation (ACHP) on March 15. A 90-day review period is now in effect with both the Washington State (State Historic Preservation Office) and Federal (ACHP) regulators.

During March, 233-S Plutonium Concentration Facility work activities included the removal of the L-9 vessel. This is the second of 15 vessels that are planned for removal by June 2002. Activities were also initiated in preparation for removal of the next vessel (L-1).

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NOTABLE ACCOMPLISHMENTS continued:

On March 22, the president of Bechtel Hanford, Inc. (BHI), along with the Hanford Site manager and Fluor Hanford (FH) president, presented a briefing to the House Nuclear Waste Cleanup Caucus in Washington, D.C. Information was presented to congressional staff that detailed the Environmental Restoration (ER) Project's substantial progress and future challenges.

The Environmental Restoration Contractor (ERC) continued ongoing coordination activities with U.S. Department of Energy (DOE), Richland Operations Office (RL), PNNL, and FH to develop an integrated Hanford Cleanup Summary Schedule. The ER Long Range Plan schedule is being used as a basis for much of the new schedule. This schedule will display key areas of the River Corridor, Central Plateau, and Office of River Protection (ORP) workslope for fiscal year 2002 (FY02) through FY46.

CENTRAL PLATEAU:

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-24-49, "Install Three Additional Wells at SST WMA S-SX" (due April 30), was completed on March 30, one month ahead of schedule. *Tri-Party Agreement* Milestone M-24-50, "Install Two Additional Wells at SST WMA TX-TY" (due April 30), was completed on April 2.

The contained-in (waste criteria) determination was received from Washington State Department of Ecology (Ecology) for 12 of the 15 FY00 *Resource Conservation and Recovery Act* (RCRA) drilling waste sites. This approval provides a strategy and path forward for the calendar year 2001 (CY01) RCRA drilling campaign.

Meetings continued with Ecology, RL, ORP, CH2M Hill Hanford Group (CHG), BHI, and PNNL for negotiating the *Tri-Party Agreement* Milestone M-24 drilling activities for CY01.

The U.S. Environmental Protection Agency (EPA) approved the general location of the groundwater well that will be drilled within the Plutonium Finishing Plant (PFP) protected area. EPA also concurred with the Z-9 well deepening characterization plan, Rev. 0.

All groundwater pump and treat systems operated above the planned 90% availability levels in March. Since system inception, the five pump and treat systems have processed over 4.9 billion liters of groundwater, removing approximately 5,228 kilograms of carbon tetrachloride, 232 kilograms of chromium, and 0.99 curies of strontium. Approximately 581 million liters of groundwater have been processed in FY 2001, removing approximately 646 kilograms of carbon tetrachloride, 38 kilograms of chromium, and 0.101 curies of strontium.

On April 4, 200-ZP-2 vapor extraction system operations were restarted in the 200 Area.

Site surveillance and maintenance (S&M) activities proceeded in March to ensure inactive facility integrity and safety. Hexone in-tank characterization sampling and visual examination were completed for the two tanks located in the 200 Area. In-tank sampling was captured on videotape. Sample analysis and engineering evaluation are in progress for the two tanks. Initial structural inspection was also completed for the Plutonium Uranium Reduction Extraction (PUREX) facility canyon roof. Observations indicate that water infiltration is continuing into the building structure from the deteriorated roof cover.

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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Sixteen *Tri-Party Agreement* milestones are currently planned for completion during FY01. Through March, ten milestones have been completed, all ahead of schedule.

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One *Tri-Party Agreement* milestone was completed during March. *Tri-Party Agreement* Milestone M-24-49, "Install Three Additional Wells at SST WMA S-SX" (due April 30), was completed on March 30, one month ahead of schedule.

Two milestones are currently unrecoverable. A *Tri-Party Agreement* change request is being prepared to revise the completion date for Milestone M-13-26, "Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan", from June 30 to December 31. This extension is requested to allow time for further carbon tetrachloride investigation. A *Tri-Party Agreement* change request will be prepared in the May timeframe to revise Milestone 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.

Total Tri-Party Agreement Milestones Due in FY01	16
Total Planned Through March	8
Total Completed Through March	10

Remaining Tri-Party Agreement Milestones to be Completed in FY01	6
Forecast Ahead of Schedule	3
Forecast On Schedule	1
*Forecast Unrecoverable	2

*Regulators concur with path forward to realign milestone dates.

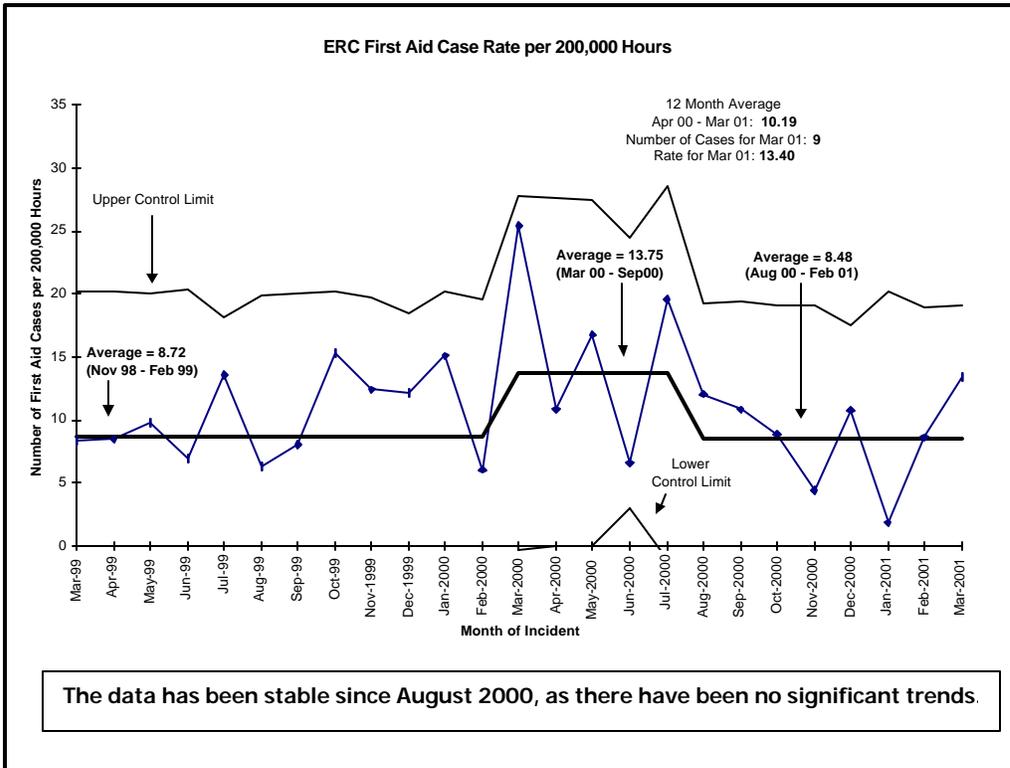
EM Corporate Performance Measures:

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	12	12	16	6
Technology Deployments	0	5	8	6

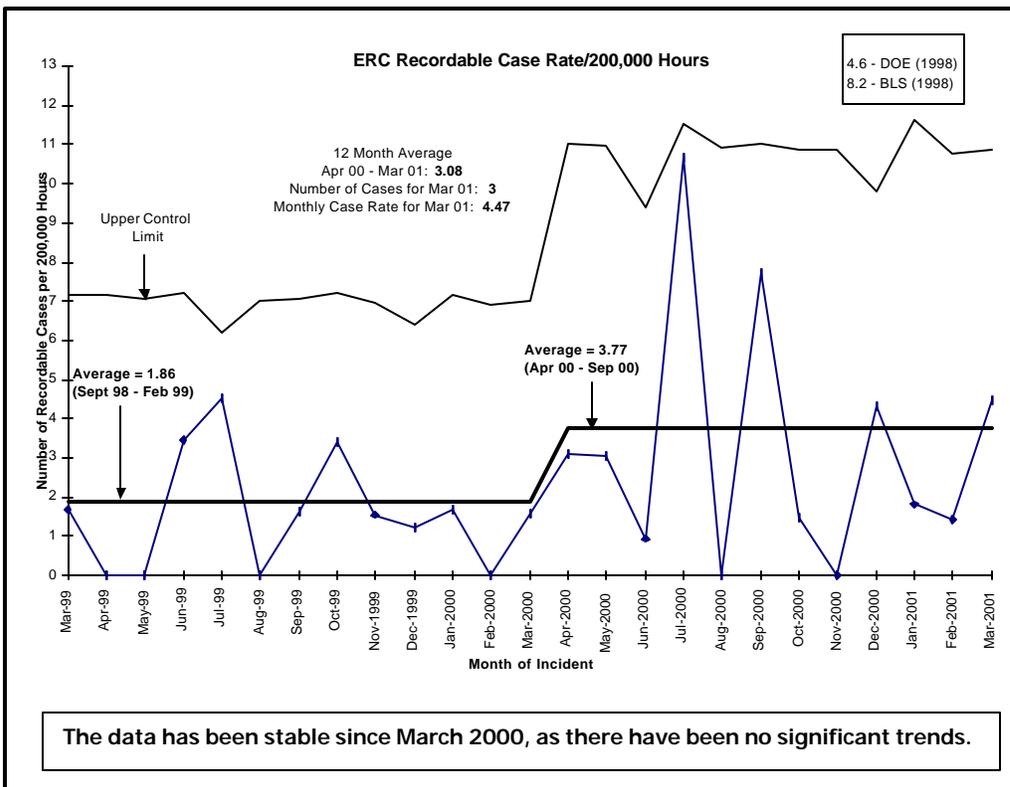
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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION MAY 2001

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



Green

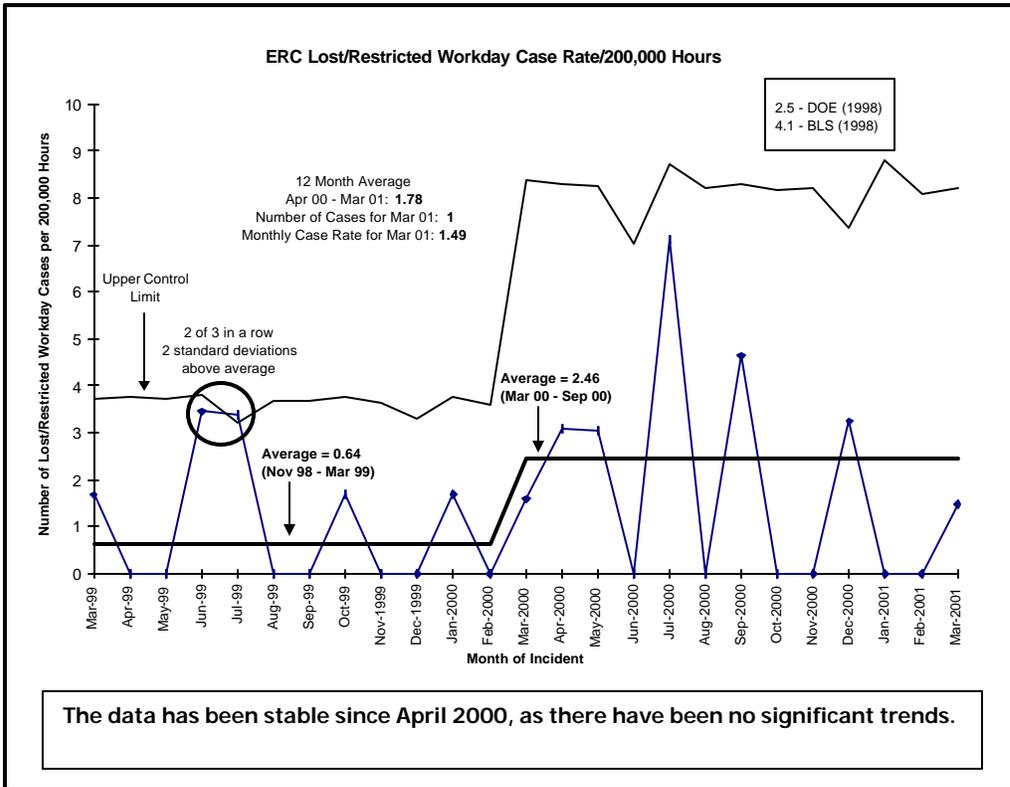


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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION MAY 2001

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

Green



The following actions have or are being taken by the ERC to focus on safety improvement:

- Individual injury cases are thoroughly investigated and Lessons Learned reported.
- Continue to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.
- Implementation of the new hazard evaluation process continues to be a major area of focus for the ERC.
- Since safety incidents tend to increase in the spring/summer period, ERC performed a one-hour standdown on April 26 to focus on personal and worker safety.

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

Safety:

	YTD	Current Month (Mar)	Current Month Comments
First Aid	36	9	(5) strain, (1) contusion/abrasion, (2) bite/sting, (1) laceration
OSHA Recordable	10	3 (*includes 1 Lost Workday Case below)	(1) RCT was pulling a probe out of the back holder of an Eberline E-600. It appeared to be jammed. When she pulled, it suddenly came loose and the handle portion of the probe struck her front teeth. She had several dental visits. (1) Carpenter unskirted and unblocked a trailer at 100F. It had been moved to 100H and he was helping to again block the trailer. The employee reported many spiders were noticed on and around the trailer. He reported to have been bitten on the top of his head by a spider. He reported the injury on 3/6/01 when the bite developed into two lesions, redness, and swelling. He was given prescription medication.
Restricted Workday Case	2	*1	(1) pipefitter was reaching through port holes and was trying to lift a piece (15'x1") of pipe to hand it to a co-worker in the next bay to float to the floor. He was reaching straight out and exerting strength when he felt a burning sensation in the right arm/shoulder. Employee had surgery to repair a torn biceps muscle.
Lost Workday Case	2	0	N/A

Green

The ERC, as of April 21, 2001, reports 115,600 hours since the last lost work day incident. The incident occurred on March 21, 2001 and became a lost time on March 28, 2001.

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

ISMS:

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

Green

Status:

- BHI-MA-02, Procedure 2.1, Rev. 6, Corrective Action Request (CAR) was distributed within the ERC for final review. The projected issue date for the revision is June 8, 2001.
- Implementation of the new hazard identification and analysis process continued. An integrated self-assessment was conducted to evaluate the effectiveness of the newly implemented process.
- Projects/Functions continued developing ISMS performance indicators. A consultant was retained to facilitate the process.
- Continued efforts to obtain the services of an ISMS coordinator for the ERC.
- BHI-MA-02, Procedure 2.7, Rev. 3, Self-Assessment, was distributed within the ERC for final review. The projected issue date for the revision is June 1, 2001.

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

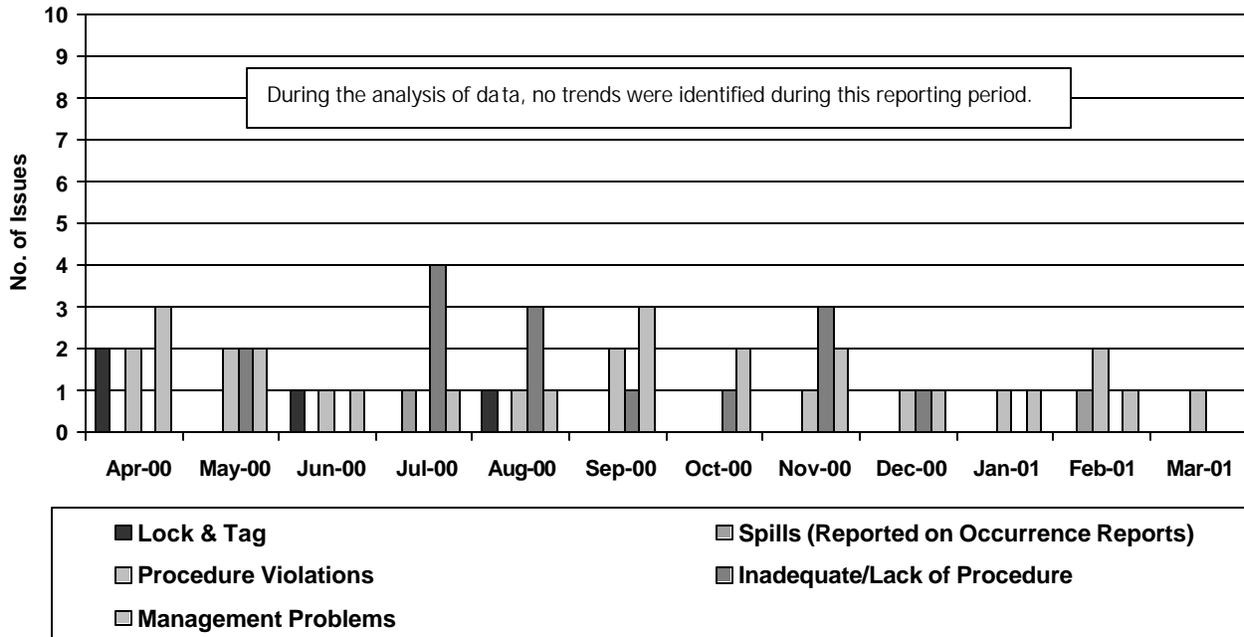
Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 4/1/00 through 3/30/01

	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01
Lock & Tag	2	0	1	0	1	0	0	0	0	0	0	0
Spills (Reported on Occurrence Reports)	0	0	0	1	0	0	0	0	0	0	1	0
Procedure Violations	2	2	1	0	1	2	0	1	1	1	**2	1
Inadequate/Lack of Procedure	0	2	0	4	3	1	1	3	1	0	0	0
Management Problems	3	2	1	1	1	3	2	2	1	1	*1	0

* Trend data not received until March 2001.

**Trend data for one item not received until March 2001.



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

March Conduct of Operations Issues:

Procedure Violation:

Condition Description: Without placing a container on the floor, a pipefitter removed the p-trap cap under a catch tank by the west panel in Room 233-A at 105-D while performing a liquid pipe check. As the p-trap cap was removed dust flakes fell to the floor. The Radiological Control Technician (RCT) was notified immediately and a survey indicated 30,000 dpm/large area wipe, beta/gamma contamination.

Corrective Action Plan: Field Support Management has counseled the Field Support employees failing to follow the work package task instruction. The event was discussed during the D&D Reactor Interim Safe Storage (RISS) plan-of-day meeting with emphasis on procedural compliance. Additionally, a video on procedural compliance was shown to all D&D RISS assigned employees at a safety meeting.



March Conduct of Operations Issues Continued on Next Page...

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

Previous Conduct of Operations Issues Not Reported Until March:

Procedure Violation:

Condition Description: An empty waste container was not securely latched onto haul truck.

Corrective Action Plan: Met with subcontractor management to discuss ERC safety, reporting, and investigation expectations. Met with Teamster to discuss container loading procedures, actions to take if there is a deviation in the process, and addressed response actions to take when an incident occurs. Increased project management presence on site and assigned quality services and safety personnel to conduct reviews of subcontractor plans and procedures, and implementation of safety programs. Revised subcontractor's container transport procedures and reviewed the procedure with subcontractor employees. Implemented a requirement to keep the haul road by the survey tent free from personnel and vehicle hauling activities. In addition, reemphasized the following two policies: 1) In the case of an incident, cease operations, place equipment in a safe configuration, and notify supervision, and 2) When working around operating equipment, personnel must maintain a minimum distance.

Green

Management Problem:

Condition Description: At 233-S, a worker attempted to enter the project change trailer to change into work coveralls when he observed extensive smoke damage inside.

Corrective Action Plan: Provided an initial Lessons Learned to the ERC and RL Lessons Learned Coordinators for distribution, to ensure quick dissemination of the potential hazard associated with this type of heating/cooling unit. Disconnected and removed the damaged trailer. Conducted a more detailed inspection of the damaged heating/cooling unit. Provided guidance to ERC Field Superintendents, so that similar heating/cooling units will not be used on a continuous basis. Implemented a periodic maintenance requirement for small heaters in Field Support maintained craft trailers to be cleaned and inspected.

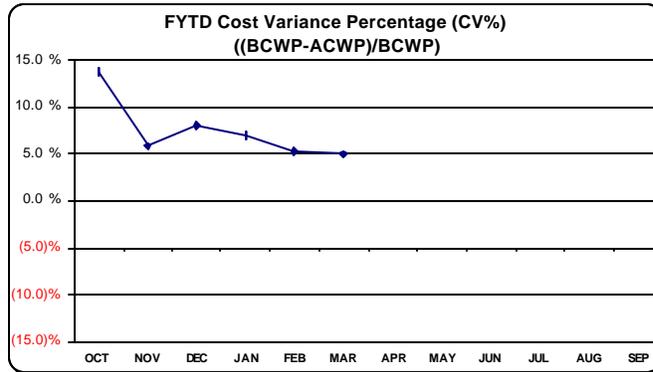
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REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

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

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TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL):

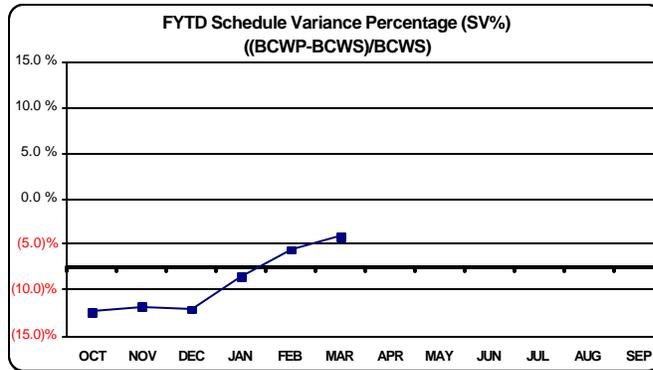


Green

Target performance is better than -5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274	13,040	12,559							
BCWP	11,195	10,749	13,140	12,755	12,916	13,101							
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538	57,578	70,137							
BCWP	11,195	21,944	35,085	47,839	60,755	73,856							
CV	1,539	1,290	2,820	3,301	3,177	3,720							
CV%	13.7%	5.9%	8.0%	6.9%	5.2%	5.0%							
EAC (Cumulative)	9,656	20,654	32,264	44,538	57,578	70,137	88,133	102,872	117,766	134,877	149,348	164,921	165,038
Yr End Budget Variance	195	544	2,241	2,200	2,274	3,316							

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



Green

Target 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	12,418	12,003	12,656	17,622	14,051	13,665	15,926	14,147	15,965
BCWP	11,195	10,749	13,140	12,755	12,916	13,101						
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,322	76,977	94,599	108,651	122,316	138,242	152,389	168,354
BCWP	11,195	21,944	35,085	47,839	60,755	73,856						
SV	(1,587)	(2,940)	(4,815)	(4,479)	(3,566)	(3,121)						
SV%	-12.4%	-11.8%	-12.1%	-8.6%	-5.5%	-4.1%						

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL) continued:

FY01 PERFORMANCE FYTD MARCH 2001 (\$K)

	FY01 DWPP		FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
	BCWS	CURRENT BCWS	BCWS	BCWP	ACWP	\$	%	\$	%	
ER01 100 Area R/A	29617	31184	13817	14227	12960	410	3.0%	1267	8.9%	28791
ER03 300 Area R/A	4127	2712	1221	976	903	-245	-20.1%	73	7.5%	2624
ER04 ER Waste Disposal	17420	18498	9071	9310	8238	239	2.6%	1072	11.5%	17923
RA-Subtotal	51164	52394	24109	24513	22101	404	1.7%	2412	9.8%	49338
ER02 200 Area R/A	443	4175	1092	810	825	-282	-25.8%	-15	-1.9%	4213
ER08 GW Management	24942	30507	13113	12227	11994	-886	-6.8%	233	1.9%	30897
VZ01 GW/VZ	10833	11113	5872	5097	4928	-775	-13.2%	169	3.3%	11068
GW/VZ-Subtotal	36218	45795	20077	18134	17747	-1943	-9.7%	387	2.1%	46178
ER06 ISS	2065	12431	5917	6023	5294	106	1.8%	729	12.1%	12010
ER06 233-S	5130	6363	3058	2840	3132	-218	-7.1%	-292	-10.3%	6475
DD-Subtotal	7195	18794	8975	8863	8426	-112	-1.2%	437	4.9%	18485
ER05 S&M	13024	13711	6818	6300	6166	-518	-7.6%	134	2.1%	13339
ER07 Long-Term S&M	59	59	5	5	2	0	0.0%	3	60.0%	52
S/M-Subtotal	13083	13770	6823	6305	6168	-518	-7.6%	137	2.2%	13391
ER10 ERC PM&S	28984	31221	14255	13992	13646	-263	-1.8%	346	2.5%	31265
ER10 RL PM&S	5300	6381	2739	2049	2049	-690	-25.2%	0	0.0%	6381
PM-Subtotal	34284	37602	16994	16041	15695	-953	-5.6%	346	2.2%	37646
GRAND TOTAL	141944	168355	76978	73856	70137	-3122	-4.1%	3719	5.0%	165038

Green

Cost Variance Summary

At the end of March, the ER Project had performed \$73.9M worth of work, at a cost of \$70.1M. This results in a favorable cost variance of \$3.7M (+5.0%). The positive cost variance is attributed to less labor required due to sharing resources between 100 D and 100 B/C remediation; 100 D Area backfill completed early; less labor required to complete remediation cleanup verification packages (CVPs) due to use of a streamlined format and consolidation of waste sites; Environmental Restoration Disposal Facility (ERDF) transportation labor performing scope without planned overtime; savings in groundwater sample collection and analysis by reducing well trips; less mobilization/demobilization costs for DR, D, and H Reactor Interim Safe Storage (ISS) than planned; less effort than planned for D and H Reactor ISS sampling, analysis, and hazardous material removal; and program management support to field operations performed with fewer resources than planned.

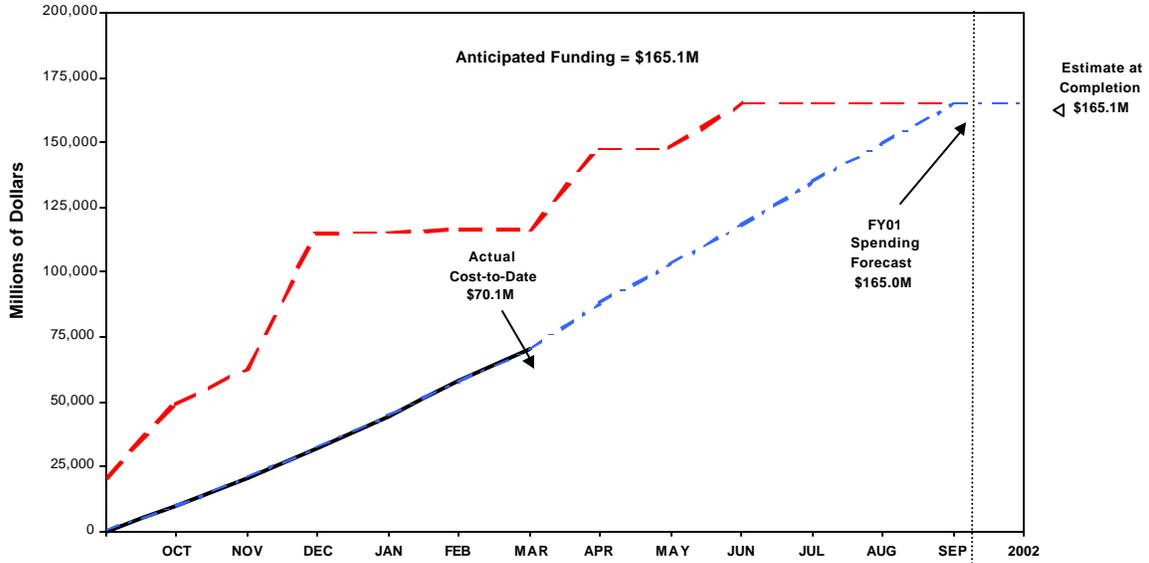
Schedule Variance Summary

Through March, the ER Project is \$3.1M (-4.1%) behind schedule. The negative schedule variance is attributed to delays in 200-TW-1 and 200-TW-2 prejob planning and drilling procurement activities; contaminated soil encountered during the Resource Conservation and Recovery Act of 1976 (RCRA) well drilling; waste shipments from RCRA wells placed on hold pending disposition resolution; well decommissioning delays due to extended well document search/selection; delays in groundwater monitoring sample collection and analysis activities; additional time required to solicit potential bidders and to implement RL-directed guidance for virtual library software methodology; 233-S process hood removal delays due to difficulties in removing neutron monitors; additional time required to evaluate new hexone tank sampling, video equipment, and potential hazards; and late billings for site-wide assessments.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION MAY 2001

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

FY2001 Funds Management



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2002	
ACTUAL/ANTICIPATED FUNDING	20,500	48,800	62,900	115,100	115,466	116,236	116,236	147,600	147,600	165,087	165,087	165,087	Est. Outyr. ETC	EAC TOTAL
APPROVED SCOPE														
1 Actual Cost	9,656	20,654	32,264	44,538	57,578	70,137								
2 Current Monthly EACs	9,656	10,998	11,610	12,274	13,040	12,559	17,997	14,740	14,893	17,112	14,471	15,570		
3 Cumulative EAC	9,656	20,654	32,264	44,538	57,578	70,137	88,134	102,874	117,767	134,879	149,350	164,920	117	165,038
APRIL FY2001 APPROVED BCP'S (Through 04/24/01)														
4 ER03 BCP-21140 Adjustment of Drum Scope in Burial Ground 618-4									(92)	(92)	(92)	(92)	0	(368)
5 ER02 BCP-21145 200 Area Geophysical Logging							(41)						0	(41)
6 ER02 BCP-21146 200-PW-1 RI/FS Work Plan Expanded Work Scope/Schedule Extension							41						0	41
7 ER06/10 BCP-21117 Deletion of Superstretch Decon Activities at F Reactor							(30)						0	(30)
8 Subtotal Approved Scope Changes							(30)	0	(92)	(92)	(92)	(92)	0	(398)
FY2001 PENDING BCP'S														
9 ALL Provisional Billing Rate Adjustment											400		0	400
10 ER01 BCP-21147 100-NR-1 Plumes at the 116-N-3 Crib & Trench							(117)	(114)	(114)	(114)	(114)	(114)	0	(573)
11 ER01 BCP-21156 Horseshoe Landfill Site Assessment (600-116)								10	10	19			0	39
12 ER05 BCP-21148 Delete B-Plant SAR Update							(71)						0	(71)
13 ER05 Hexone Stabilization								350					0	350
14 ER01 Pending Scope FY01 Additions/Reductions/Efficiencies							50	50	50	50	51	51	0	302
15 Subtotal Approved BCPs + Pending BCPs							(51)	293	(146)	(137)	245	(155)	0	49
Summary Totals														
16 Current Monthly EAC + April FY2001 Approved BCP's & Pending BCP's	9,656	10,998	11,610	12,274	13,040	12,559	17,946	15,033	14,747	16,975	14,716	15,415		-
17 Cumulative EAC + April FY2001 Approved BCP's & Pending BCP's	9,656	20,654	32,264	44,538	57,578	70,137	88,083	103,116	117,863	134,838	149,554	164,969	117	165,087

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PERFORMANCE OBJECTIVES:

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

KEY INTEGRATION ACTIVITIES:

RIVER CORRIDOR:

The ERC continued ongoing coordination activities with RL, PNNL, and FH to develop an integrated Hanford Cleanup Summary Schedule. The ER Long Range Plan schedule is being used as a basis for much of the new schedule. This schedule will display key areas of the River Corridor, Central Plateau, and Office of River Protection workscope for FY02 through FY46.

CENTRAL PLATEAU:

Meetings continued with Ecology, RL, ORP, CHG, BHI, and PNNL for negotiating the *Tri-Party Agreement* Milestone M-24 drilling activities for CY01.

Green

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-16-41A, Complete Remedial Action Excavation for J.A. Jones and 600-23 Waste Sites, due July 31.

Green

Environmental Management Performance Report

May 2001

Section B - River Corridor Information

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



Brokk™ Testing for Potential Use at F Reactor Fuel Storage Basin



Loading Demolished 42-inch Reinforced Concrete Pipe at 100-F Area



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

Financial/Performance Measures data as of month-end March.
All other data as of April 26 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0104142.1

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end March.
All other data as of April 26, 2001 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations:

Since ERDF operations began in July 1996, ERDF transportation personnel have safely driven 7,850,795 kilometers (4,879,301 miles) without an at-fault vehicle accident. The ERDF disposal team has worked 1,750 days (since project inception) without a lost time accident.

During March, shipments totaling 57,656 metric tons (63,555 tons) of contaminated waste were transported to ERDF. 241,886 metric tons (266,635 tons) of waste have been received in FY 2001, which is about 3% ahead of the planned schedule. To date, a total of 2,548,647 metric tons (2,809,417 tons) of material have been received and placed in the disposal facility.

100 B/C Area Remediation: Excavation of the six contaminated stockpile areas in the 100 B/C Area was completed during March. Excavation activities continue on the contaminated soil areas. Potholing activities were initiated on the pipelines to help identify the extent of the contamination. Clearing and grubbing of the proposed overburden stockpile areas progressed.

100 D Area Remediation: All backfill activities in the 100 D Area were completed on February 28. Final post backfill surveys were completed in March. Fence reinstallation was completed for the fences north and east of D and DR Reactors on March 15. Railroad track rails that were removed during remediation were excessed for reuse by a local company in support of Hanford Site waste minimization efforts.

100 F Area Remediation: Excavation activities progressed on the 116-F-14 Retention Basin plumes in the 100 F Area. Additional plumes estimated at 32,000 metric tons (35,000 tons) have been identified beyond what is currently authorized so a baseline change proposal (BCP) is being processed to adjust the baseline scope. Overburden removal and excavation of the 100-F-19 south and north Lewis Canal pipeline laterals also continued. A total of 202,641 tons have been excavated from 100-F this fiscal year.

100 H Area Remediation: Work continues on completing the remaining cleanup verification packages (CVPs) for the 100 H Area Operable Unit (100-H-24 and 116-H-7). Laboratory testing progressed for the 100 H Area hexavalent chromium leachate study. Backfill operations are expected to start in April

100 N Area Remediation: The Safety Analysis Report Plan (SARP) for shipping the 116-N-3 trough sections is expected to be completed in May. Setup activities are in process to make the first cut on the 116-N-3 main distribution trough the first week of April. Trough removal is forecasted to be complete by the end of May.

Preparations continued for work to begin on the export water line support bridge. The 116-N-3 pipeline and bypass structure preparations are complete, and work may commence upon substantial completion of the crib removal.

100/300 Area Design/Assessment: ERC review was completed for the 100 Area Burial Ground Preliminary Design Package. The Intermediate Design Package is scheduled for ERC review at the end of April.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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ACCOMPLISHMENTS continued: RAWD	
<p>ERC performed the 300-FF-2 Intermediate Design review for the 618-5 Burial Ground during March. The final review package will be issued for review on April 9. The Auditable Safety Analysis (ASA) for the 618-5 Burial Ground continues. Development of hazard identification and evaluation tables is nearing completion. Lessons learned from 618-4 Burial Ground were used in developing the hazard identification tables.</p> <p>The 300-FF-2 Kd (partitioning coefficient) leachability study was initiated during the week of March 19. The uranium-contaminated soil samples were provided to Pacific Northwest National Laboratory (PNNL) on March 13 for analysis.</p> <p>300 Area Remediation: Two waste drums containing debris located in Landfill 1A were shipped to ERDF for macro-encapsulation. It was determined that this waste stream could be treated at ERDF, thereby reducing cost of treatment and disposal. Shipment of these two drums closes out all waste drums at 300-FF-1 except for the uranium drums at the 618-4 Burial Ground.</p> <p>300/600 Area Remediation: Waste loadout was completed at the J.A. Jones waste site during March. The scales were moved to the 600-23 waste site, and loadout operations are underway.</p> <p>At the 600-23 waste site, unanticipated unearthed drummed waste was overpacked, opened, and physically characterized under Level B operations. Physical characterization identified a total of nine different waste types in the 39 drums. Two samples were collected from the largest waste stream materials for quick turnaround analysis.</p>	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
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 ENVIRONMENTAL RESTORATION

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

- Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-16-26D	Begin Excavation Activities at 100 B/C Process Effluent Pipelines.	2/28/01	2/26/01 (A)
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	2/28/01 (A)
M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	7/31/01	7/15/01 (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	9/30/01	8/27/01 (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-16-26G	Remove filter boxes and complete verification sampling for 100-B-12 waste site	9/30/01	9/30/01 (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 Cleanup Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	3/31/02 (F)
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1/-2, 100-DR-1/-2, and 100-HR-1 OUs and Process Effluent Pipelines in the 100-DR-1/-2, and 100-HR-1 OUs. Complete revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1/-2, and 100-HR-1 OUs as defined in the RDR/RAWP for the 100 Area.	3/31/02	3/31/02 (F)

Green

*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 *Tri-Party Agreement* change package will be prepared in May timeframe. Regulators concur with path forward.

- DNFSB Commitment:**

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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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>CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04</p>	<p>100% of Stretch undertaken as of 2/28/01.</p> <p>(*Detail Section 6C)</p>

Green

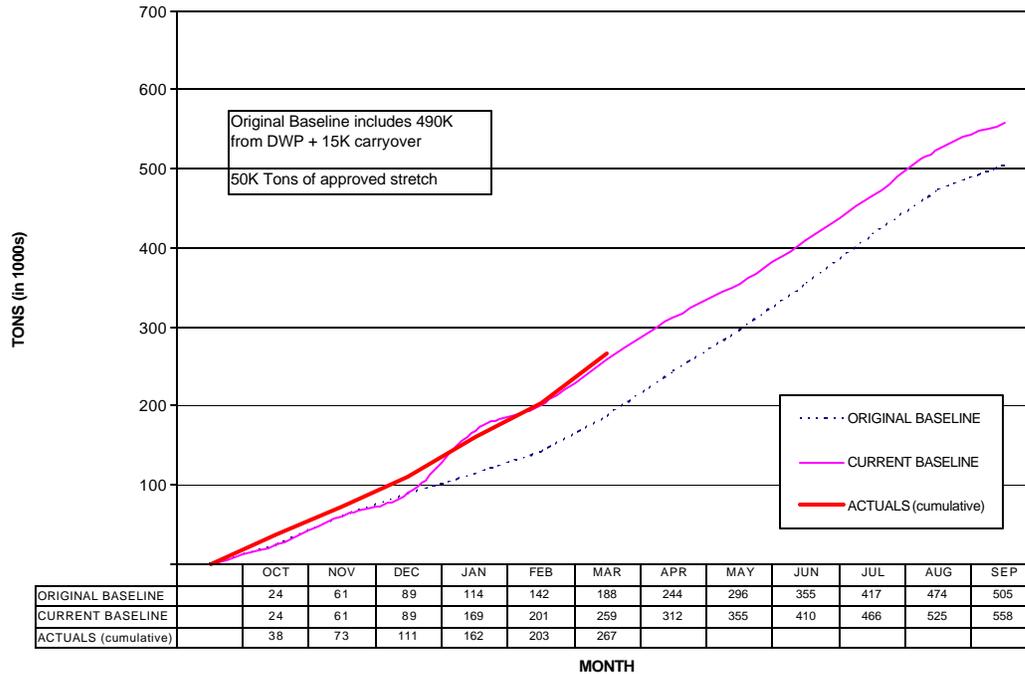
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION MAY 2001

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

	DWP FY01	FY01 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Completed YTD
Waste Sites Excavated	12	12	16	6

Green

**Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF**



STRETCH AND SUPERSTRETCH GOALS: RAWD

FY01 RAWD "Stretch" Goals	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Material by 9/30/01	
(1) Additional Contaminated Material at 100-F Pipelines (BCP 21013 approved 11/00)	8.0K
(2) Additional Contaminated Material at 100-H Sites (BCP 21014 approved 11/00)	7.5K
(3) (Additional Contaminated Material at 100-F Sites of 36.4 approved in February) (BCP 21043 approved 2/01)	34.5K
S/Total Remedial Action Stretch Goals:	50.0K

Green

(*through March 31)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PROJECT STATUS (COST/SCHEDULE): RAWD

• **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	13,817	14,227	410
ER03 300 Area Remedial Actions	1,221	976	(245)
ER04 ER Waste Disposal	9,071	9,310	239
TOTAL Remedial Actions	24,109	24,513	404

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **\$410; 3.0%** [Last Month: \$300K; 2.6%]

Cause: Backfill activities at 100-DR-1 completed ahead of schedule.

Resolution: None.

Cause: Excavation activities at 100-FR-1 are ahead of schedule due to the availability of ERDF containers which resulted in increased daily production.

Resolution: Activities could complete early if production rate continues.

Cause: Slower progress than planned on the 116-N-3 Crib demolition at the 100-NR-1 site due to higher radiation levels, demolition conditions, and container issues.

Resolution: Progress has been made in schedule recovery and will continue over the course of the year by performing remaining work concurrently.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **(\$245K); (20.1%)** [Last Month: (\$255K); (24.2%)]

Cause: Delays in 300-FF-1 remediation contract closeout; North Process Pond well decommissioning due to late subcontract award.

Resolution: Subcontractor closeout issues being performed for April/May completion, and wells are scheduled to be decommissioned in April.

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = **\$239K; 2.6%** [Last Month: \$211K; 3.0%]

Cause: Slightly ahead of schedule; more ton miles of waste were transported than planned due to additional remediation at soil sites.

Resolution: None required.

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PROJECT STATUS (COST/SCHEDULE) continued: RAWD

• **Cost:**

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER01 100 Area Remedial Actions	28,791	14,227	12,960	1,267
ER03 300 Area Remedial Actions	2,624	976	903	73
ER04 ER Waste Disposal	17,923	9,310	8,238	1,072
TOTAL Remedial Actions	49,338	24,513	22,101	2,412

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = **\$1267K; 8.9%** [Last Month: \$1651K; 14.1%]

Cause: Less labor was required due to sharing DR site non-manual resources with the 100-BC work scope needs, shifting of personnel to other waste sites, less design and supervision required, and backfill completed six weeks early. Subcontract costs were decreased by consolidating work and thereby eliminating a position.

Resolution: Reflected in the Estimate at Completion (EAC). Underrun is being used to perform additional remediation work.

Cause: CVPs continue to require less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites; the availability of extra disposal containers at 100-FR-1 is allowing more work (earned value) to be accomplished with the same work force; labor costs have increased for the lead brick survey which partially offset CVP savings.

Resolution: Reflected in the EAC. Underrun is being used to perform additional remediation work.

Cause: Cost overrun at 100-NR crib remediation due to high contamination levels.

Resolution: Overrun has been trended and reflected in the EAC.

PBS-ER03 – 300 Area Remedial Action

Cost Variance = **\$73K; 7.5%** [Last Month: \$38K; 4.8%]

Cause: Coordination of 300-FF-2 and 100 Area Burial Grounds design efforts has resulted in savings; offset by cost overrun in rerouting the South Process Pond water line and sample costs at Landfill 1B.

Resolution: Reflected in the EAC. Underrun is being used to perform additional remediation work.

PBS-ER04 – Environmental Restoration Waste Disposal

Cost Variance = **\$1072K; 11.5%** [Last Month: \$696K; 9.5%]

Cause: Through February, little driver overtime was required to stay on schedule. Fewer Radiological Control Technicians (RCTs) were needed as well. Driver overtime and RCT needs increased in March, and will continue through the remainder of the year.

Resolution: Cost savings will be offset by anticipated higher driver and RCT needs for the next six months. Some savings are still reflected in the EAC.

Decommissioning Projects (D&D)

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SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end March.
All other data as of April 26, 2001 (unless otherwise noted).

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor Interim Safe Storage (ISS): The Request for Proposal (RFP) for F and DR Reactors' ISS roofs was delivered to potential bidders on March 16. The proposal meeting was held on March 26 with interested bidders, and walkdowns were completed on March 29 at both reactors. Bids are due April 24.

The Brokk™ 330N was delivered to F Reactor Fuel Storage Basin (FSB) on March 20. The Brokk 330N is a remote-controlled excavator that will be used to excavate the remaining one meter (three feet) of sand and contaminated debris in the F Reactor FSB. Two Brokk representatives assisted in equipment setup and training. Brokk will train two supervisors and one crane operator on the equipment, who will then train any additional personnel. Acceptance testing was completed on March 22. Additional in-house training and mock-up practice will continue for the next few weeks.

The revised spent nuclear fuel Transfer Plan incorporating the RL Letter of Direction (dated December 21) was signed by Fluor Hanford (FH) on March 7. The Safety Analysis Report Plan (SARP) was transmitted to RL for approval on March 19.

D Reactor ISS: At D Reactor, demolition and loadout activities were completed for Area 1 (miscellaneous storage and lunchroom) and Area 2 (valve pit). Flat transite asbestos removal was also completed in the FSB and bucket elevator.

H Reactor ISS: At H Reactor, asbestos removal was completed on piping in the miscellaneous storage room, outer rod room, electrical equipment area, and operations gallery. Pipe and equipment were also removed from the operations gallery.

Historic Building Mitigation: A complete draft of the Historic Building Mitigation final report was submitted to the Advisory Council on Historic Preservation (ACHP) on March 15. A 90-day review period is now in effect with both the Washington State (State Historic Preservation Office) and Federal (ACHP) regulators.

233-S Plutonium Concentration Facility Decommissioning Project: During March, activities accomplished in the highly contaminated 233-S facility included the following:

- Removal of the L-9 vessel.
- Commencement of the L-1 vessel removal.
- Continuation of process hood piping, conduit, and valve removal.
- Continuation of process hood channel iron and L-18 metal panel removal.
- Approval of the Ventilation System Modification Design Package.
- Receipt of sub-contractor nondestructive assay (NDA) team qualification certification and approved procedures from FH.
- Initiation of waste package NDA by the sub-contractor.
- Shipment of 8 boxes of low level waste to ERDF.

Green

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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			
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time. 			
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: D&D			
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time. 			
<ul style="list-style-type: none"> • Tri-Party Agreement 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
<p>*Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY 2002. Initial discussions are underway.</p>			
<ul style="list-style-type: none"> • DNFSB Commitment: None identified at this time. 			



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PERFORMANCE OBJECTIVES: D&D

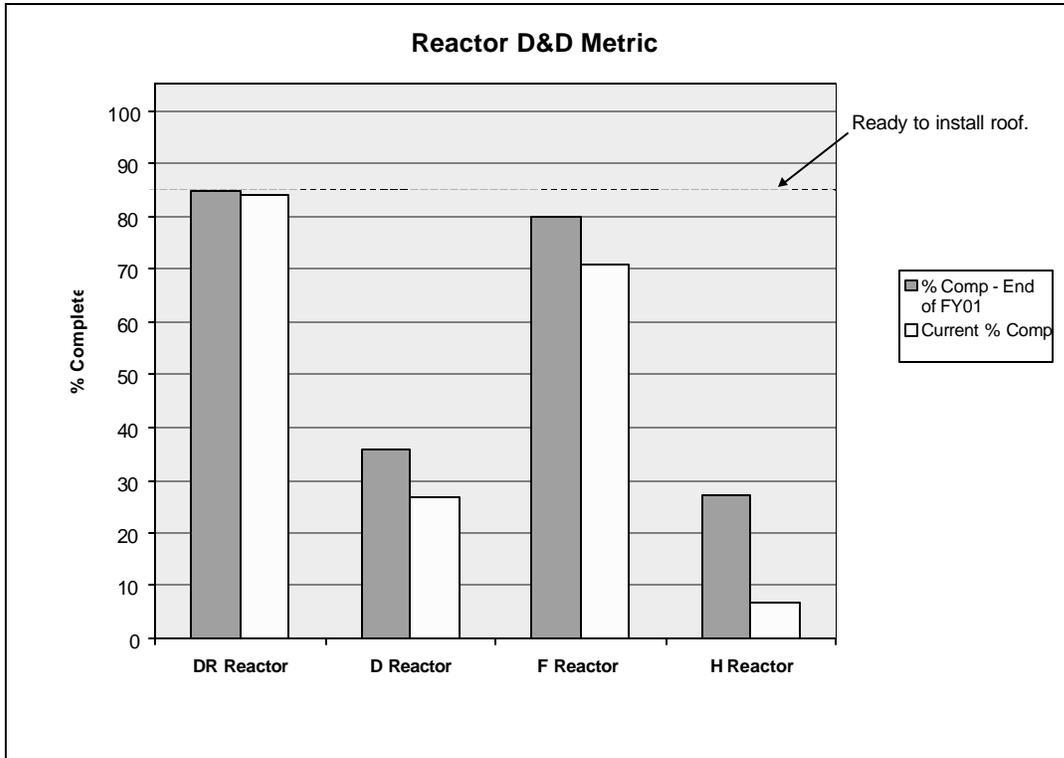
PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
233-S	13% plus FY02 equivalent portion	76%	<ul style="list-style-type: none"> 8 vessels by 6/30/02 	Critical path activity on schedule.
		24%	<ul style="list-style-type: none"> 7 additional vessels by 6/30/02 (*Stretch) CV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

Green

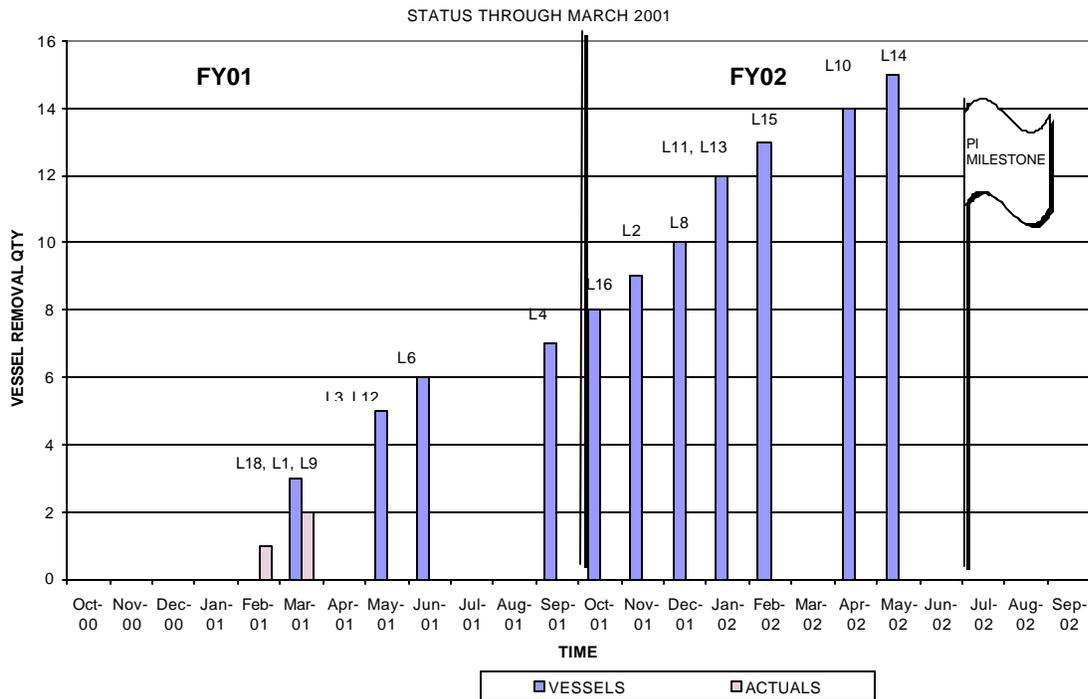
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION MAY 2001

PERFORMANCE MEASURES/METRICS: D&D

Green



RESEQUENCED VESSEL REMOVAL SCHEDULE (BCP 21105)



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STRETCH AND SUPERSTRETCH GOALS: D&D

FY01 D&D "Stretch" Goals	Approved BCPs (K)
Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only) (BCP 21023 approved 11/00)	\$1,072.0K
S/Total D&D Stretch Goals:	\$1,072.0K

Green

PROJECT STATUS (COST/SCHEDULE): D&D

- Schedule:

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER06 ISS and Other D&D Projects	5,917	6,023	106
ER06 233-S	3,058	2,840	(218)
TOTAL D&D	8,975	8,863	(112)

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = **(\$112K); (1.2%)** [Last Month: (\$284K); (3.8%)]

Cause: D Reactor ISS is ahead of schedule due to structural demolition taking less time than planned; less time to remove hazardous waste than planned at H Reactor ISS.

Resolution: Some H Reactor work is being accelerated from FY 2002 to maintain consistent labor force.

Cause: Process Hood vessel removal at the 233-S facility behind schedule due to difficulty in removing neutron monitors, stringent procedures slowed Transuranic (TRU) waste shipments, and NDA labor support was not available.

Resolution: Selective overtime will continue to be used to recover schedule.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PROJECT STATUS (COST/SCHEDULE) continued: D&D

• Cost:

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER06 ISS and Other D&D Projects	12,010	6,023	5,294	729
ER06 233-S	6,475	2,840	3,132	(292)
TOTAL D&D	18,485	8,863	8,426	437

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = **\$437K; 4.9%** [Last Month: \$343K; 4.7%]

Cause: Less effort than planned on D and H Reactors ISS mobilization/demobilization, sampling and analysis, asbestos removal, hazardous material removal, and demolition; DR Reactor mobilization savings.

Resolution: Underrun is being used to perform additional remediation/demolition work.

Cause: Overrun at the 233-S Facility due to purchase of additional tools needed for process hood pipe and vessel removal.

Resolution: Will be reflected in the EAC.

REGULATORY ISSUES: D&D

D and H Reactor Impacts of *Tri-Party Agreement* 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 begun. This will need to be discussed as part of RL's 100 Area acceleration vision. Regulators concur with path forward.

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

None identified at this time.

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

F Reactor FSB Fuel Transfer Plan: The FH/K Basin management has not yet approved the F Reactor FSB fuel Transfer Plan. The Plan outlines how the interfaces outlined in the DOE Letter of Direction (LOD) will be implemented between ERC and FH. The latest version of this plan was sent 1/10/01 (which incorporated the 12/21/00 LOD revision), but the FH/K Basin group has had earlier versions since October 2000.

Green

Status: A fuel Transfer Plan was approved by FH on March 7. Issue closed.

233-S Process Hood: NDA support, provided by Fluor Hanford-(FH) Plutonium Finishing Plant (PFP) continues to be a concern. The level of NDA services requested in the FY 2001 Letter of Instruction (LOI) is not being met.

Yellow

Status: meeting was held with the Manager of PFP to discuss NDA support. NDA requirements at PFP have increased in addition to the increased need at 233-S. He stated that the level of NDA services in the FY 2001 LOI could only be met on a not to interfere with PFP basis. Additional NDA services are being arranged under PFP's umbrella contract with a vendor (Canberra). BHI has developed a transition plan to shift on-site NDA support to Canberra and resolve the delivery of backlog data that is necessary to support waste shipment activities. The transition plan was reviewed with the Manager of PFP.

INTEGRATION ACTIVITIES: D&D

None identified at this time.

Program Management and Support (PM&S)

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Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: Due to a February 28 earthquake in western Washington, ERC's Emergency Preparedness personnel responded to the Hanford Emergency Operations Center (EOC) in support of the Earthquake/Event Coordination Team. No damage was identified for any ERC-managed facilities. The Event Coordination Team was disbanded on March 1.

ERC Safety and Health personnel met with employees at 233-S facility and developed a safer alternative to secure the main belt buckle on Powered Air Purifying Respirator (PAPR) equipment, after one failed. The temporary measure uses an additional slip buckle until the permanent fix is incorporated. The manufacturer has developed a new buckle/belt assembly. Samples were sent to 233-S and 271-U personnel on March 28 for field evaluation.

On March 7, the Radiological Control's web site was completed and posted on the ERC Intranet. The site contains links to information and references relevant to planning radiological work at ERC. The web site is http://www.erc.rl.gov/radcon/radcon_home.htm. The completion of this site was the last activity required to close the "Alpha Contamination Control" National Tracking System report.

PROGRAM AND PROJECT SUPPORT:

External Affairs: On March 22, the president of BHI, along with the Hanford Site manager and FH president, presented a briefing to the House Nuclear Waste Cleanup Caucus in Washington, D.C. Information was presented to congressional staff that detailed ERC's substantial progress and future challenges. The same presentation was also conducted in individual meetings with congressional members and staff who were unable to attend the initial briefing.

Procurement and Property Management: ERC continues to exceed the socio-economic contracting goals for the fiscal year. The FY 2001 socio-economic contractual goals versus actual percentages (through March) are as follows:

Total Small Business	Goal: 50.0%	Actual: 46.7%
Small Disadvantaged Business	Goal: 6.5%	Actual: 21.2%
Women-Owned	Goal: 3.5%	Actual: 5.0%

ENGINEERING AND TECHNOLOGY:

Environmental Technologies: An evaluation was completed for the regulatory basis and requirements for establishing purgewater collection criteria and listed waste exit criteria ("contained-in" limits). This supports revisions to the Purgewater Agreement.

Technology Applications: ERC facilitated a technology exchange on characterization of carbon tetrachloride. Outside resources, which were funded by the Subsurface Contaminants Focus Area (SCFA), were also used.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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SAFETY/ISMS/CONDUCT OF OPERATIONS: PM&S
See Executive Summary.
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: PM&S
None identified at this time.
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: PM&S
<p>Six Sigma:</p> <p>Progress continues on Six Sigma. There are four phases (Measure, Analyze, Improve, Control) in a process improvement project (PIP). The Waste Management PIP (PIP#1) is currently in the "Control phase" and is about 90% complete.</p> <p>The Procedure Development PIP (PIP#2) is currently in the "Measure phase" and is about 40% complete.</p> <p>The 21 ERC and 2 DOE-RL Six Sigma Yellow Belts are now certified and deployed in the workplace. These individuals are actively applying Six Sigma tools to enhance work processes in their areas of operations.</p> <div style="text-align: right; border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>
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"> • Tri-Party Agreement 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

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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% 	Rebaseline activities completed on 1/10/01. All other activities on schedule for completion as planned.
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 were identified in March.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PERFORMANCE MEASURES/METRICS: PM&S

ERC identified five technologies to be deployed during FY 2001. Through March, six technologies have been deployed.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Remote Retrieval System (Brokk™ 330N with appropriate attachments)	RL-ER06	2 nd quarter	5/01 (F)*
3D Visual and Gamma Imaging System (GammaCam)	RL-ER06	2 nd quarter	2/01 (A)
In Situ Object Counting System (ISOCS)	RL-ER06	2 nd quarter	2/01 (A)
Polyshield SS-100 Fixative	RL-ER01	12/00	12/00 (A)
Surveillance and Measurement Model 935	RL-ER01	2 nd quarter	5/01 (F)
Ultrasonic Liquid Level Detection	RL-ER06	2 nd quarter	2/01 (A)
Guzzler Vacuum Truck	RL-ER03	2 nd quarter	2/01 (A)
Laser-Assisted Ranging and Data System	RL-ER06	2 nd quarter	3/01 (A)

Green

*Brokk on site and currently going through acceptance testing. Operator training has begun, with deployment scheduled for May.

STRETCH AND SUPERSTRETCH GOALS: PM&S

None identified at this time.

PROJECT STATUS (COST/SCHEDULE): RAWD

- Schedule:

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	14,255	13,992	(263)
ER10 RL Program Management & Support	2,739	2,049	(690)
TOTAL PM&S	16,994	16,041	(953)

Green

PBS-ER10 – Program Management and Support

Schedule Variance = **(\$953K); (5.6%)** [Last Month: (\$1,272K); (8.9%)]

Cause: Hanford Environmental Information System (HEIS)/Hanford Geographic Information System (HGIS)/Waste Information Data System (WIDS) and project specific databases staffs are working on higher priority direct project scope.

Resolution: Temporary schedule delay; subcontractor and temporary labor on board.

Cause: Late billing on site-wide assessments.

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

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PROJECT STATUS (COST/SCHEDULE) continued: PM&S

• **Cost:**

Program Management & Support	FY01 EAC	BCWP	AWP	Variance
		\$K	\$K	\$K
ER10 ERC Program Management & Support	31,265	13,992	13,646	346
ER10 RL Program Management & Support	6,381	2,049	2,049	0
TOTAL PM&S	37,646	16,041	15,695	346

Green

PBS-ER10 – Program Management and Support

Cost Variance = **\$346K; 2.2%** [Last Month: \$462K; 3.5%]

Cause: Design Engineering, field analytical support, and database maintenance are underrunning as well as Systems Engineering support needs being less than anticipated.

Resolution: Underrun reflected in the EAC. [Note: A portion of the underrun will be used to offset the development of the Configuration Management Plan. (BCP 21-153)]

REGULATORY ISSUES: PM&S

None identified at this time.

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: PM&S

The ERC continued ongoing coordination activities with RL, PNNL, and FH to develop an integrated Hanford Cleanup Summary Schedule. The ER Long Range Plan (LRP) schedule is being used as a basis for much of the new schedule. This schedule will display key areas of the River Corridor, Central Plateau, and Office of River Protection (ORP) workscope for FY 2002 through FY 2046.

Green

Environmental Management Performance Report

May 2001

Section C - Central Plateau Information

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



24-inch Manway Removal at Hexone Tank 142



Monitoring for Hexone Vapors During Glove Box Installation at 276-S



ISRM Well Completion

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end March.
All other data as of April 26 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0104142.2

**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 March.
All other data as of April 26, 2001 (unless otherwise noted).

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

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

Characterization of Systems: The Special Nuclear Material Life Cycle at the Hanford Site Report was completed during March.

Science and Technology (S&T): S&T laboratory analyses and modeling were completed for the S-SX field investigation report. The results have been summarized in a draft appendix that will be incorporated into the S-SX field investigation report being prepared by the River Protection Program. The National Academy of Sciences (NAS) Committee was briefed on the S-SX tank farm investigation results and was also provided a general Integration Project update. This is the final interaction of the Integration Project with the NAS Committee until its report is released in early summer.

GROUNDWATER MANAGEMENT:

Resource Conservation and Recovery Act of 1976 (RCRA) Well Installation: *Tri-Party Agreement* Milestone M-24-49, "Install Three Additional Wells at SST WMA S-SX" (due April 30), was completed on March 30, one month ahead of schedule. *Tri-Party Agreement* Milestone M-24-50, "Install Two Additional Wells at SST WMA TX-TY" (due April 30), was completed on April 2. Final well acceptance walkdowns will be conducted after the last two wells are installed.

The contained-in (waste criteria) determination was received from Ecology for 12 of the 15 FY 2000 RCRA drilling waste sites. This approval provides a strategy and path forward for the calendar year 2001 (CY01) RCRA drilling campaign.

Meetings continued with Ecology, RL, Office of River Protection (ORP), CH2M Hill Hanford Group (CHG), Bechtel Hanford, Inc. (BHI) and Pacific Northwest National Laboratory (PNNL) for negotiating the *Tri-Party Agreement* M-24 drilling activities for FY 2001.

Remediation: A baseline change proposal (BCP) was approved for rebaselining 200 Area workscope. The BCP supports drilling the 200-ZP-1 (Plutonium Finishing Plant [PFP]) and 200-UP-1 groundwater wells and restarting the soil vapor extraction system (VES). RL and the Environmental Protection Agency (EPA) approval was received for the expedited response action (ERA) sampling and operating plan for the VES restart.

In Situ Redox Manipulation (ISRM) Project: In February, agreement was reached on the path forward for the drilling approach to install ISRM Phase II barrier wells west of the existing barrier. During March, activities began on well installation activities at the Phase II western barrier well locations, and pre-injection activities were completed at the Phase II eastern barrier well locations.

Tritium Investigation: The decisional draft Sample Analysis Plan (SAP) for the tritium investigation was transmitted to RL for approval.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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ACCOMPLISHMENTS continued: GW/VZ	
<p>Carbon Tetrachloride Investigation: EPA approved the general location of the groundwater well that will be drilled within the PFP protected area. EPA also concurred with the Z-9 well deepening characterization plan, Rev. 0.</p> <p>Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in March. Since system inception, the five pump and treat systems have processed over 4.9 billion liters of groundwater, removing approximately 5,228 kilograms of carbon tetrachloride, 232 kilograms of chromium, and 0.99 curies of strontium. Approximately 581 million liters of groundwater have been processed in FY 2001, removing approximately 646 kilograms of carbon tetrachloride, 38 kilograms of chromium, and 0.101 curies of strontium.</p> <p>200-ZP-2 Vapor Extraction System: During March, a BCP was approved authorizing restart of 200-ZP-2 operations in April. (Restarted April 4.)</p> <p>200 AREA ASSESSMENT:</p> <p>Integration opportunities were identified for performing the 200-TW-1 and 200-TW-2 new well logging activities. Approval of this approach allows the 200-TW-1 and 200-TW-2 borehole geophysical logging workscope to be completed in a more cost-effective manner, consistent with the 200 Area-wide geophysical logging program being performed.</p>	
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	
<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

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

• **Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	Submit One 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 Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)
M-24-47	Install Four Additional Wells at SST WMA T	12/31/00	12/27/00 (A)
M-24-48	Install Three 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 Additional Wells at SST WMA S-SX	4/30/01	3/30/01 (A)
M-24-50	Install Two Additional Well at SST WMA TX-TY	4/30/01	4/02/01 (A)
M-15-41A	Complete 200-TW-1 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)
M-15-42A	Complete 200-TW-2 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (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	3/31/03 (F)*
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	12/31/01	12/31/01 (F)
M-13-00L	Submit Three 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

*Regulators recommended feasibility study (FS) be placed on hold due to 1) adequacy of ecological data, 2) application of new Model Toxics Control Act (MTCA) requirements, and 3) land-use scenario development issues. A *Tri-Party Agreement* change request has been forwarded to Ecology proposing milestone be revised to March 31, 2003.

**M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue has been discussed with the regulators at the last two *Tri-Party Agreement* Quarterly Reviews. A draft *Tri-Party Agreement* change request will be prepared in the May timeframe.

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

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

PERFORMANCE OBJECTIVES: GW/VZ

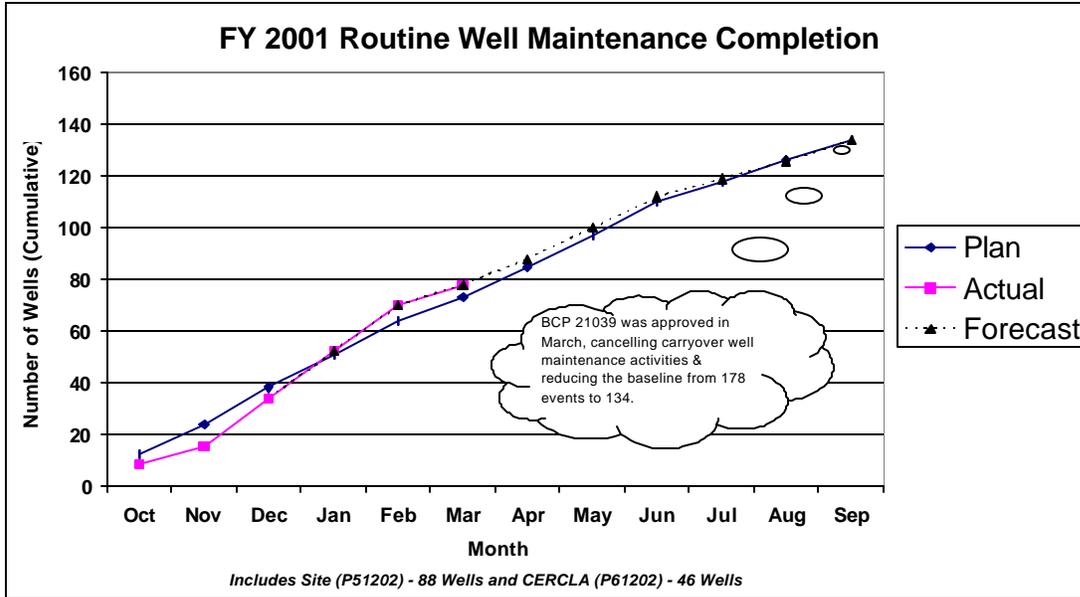
PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
GW – ISRM Barrier	3%	3%	<ul style="list-style-type: none"> • Drill 24 wells and inject sodium dithionite by 9/30/01 <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	<p>Critical path activities on schedule, however an emerging issue on effects of air drilling on the ISRM barrier is being evaluated. Waste issues will continue while Project pursues Ecology's "contained-in" approach.</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>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	<p>Work has commenced.</p> <p>(*Detail Section 6C)</p>

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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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	64	73	85	97	110	118	126	134
Actual	8	15	34	52	70	78						
Forecast							88	100	112	119	126	134

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	Approved BCPs (K)
Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01 (BCP 21090 approved 1/01)	\$595.4K
S/Total GW – Vadose Zone Stretch Goals:	\$595.4K

Green

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PROJECT STATUS (COST/SCHEDULE): GW/VZ

- Schedule:

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	1,092	810	(282)
ER08 Groundwater Management	13,113	12,227	(886)
VZ01 Groundwater/Vadose Zone	5,872	5,097	(775)
TOTAL Groundwater	20,077	18,134	(1,943)

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **(\$282K); (25.8%)** [Last Month: (\$178K); (20.0%)]

Cause: Delay in TW-1 and TW-2 pre-job planning activities and drilling procurement due to difficulties in coordinating the many field activities.

Resolution: Schedule recovery efforts will be closely coordinated with the drilling subcontractor once the contract is awarded. Potential carryover item due to late procurement.

PBS-ER08 – Groundwater Management

Schedule Variance = **(\$886K); (6.8%)** [Last Month: (\$744K); (6.8%)]

Cause: RCRA well drilling delayed due to contaminated soil encountered; waste shipments were placed on hold to pursue regulator recommended approach.

Resolution: *Tri-Party Agreement* milestones are not in jeopardy from this delay; schedule has been revised to show more aggressive plan.

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: PNNL groundwater modeling and monitoring on source release inventory and Hydrologic assessment tasks are behind schedule due to resources deployed to higher priority work.

Resolution: System Assessment Capability (SAC) inventory information was finalized in March and source release activities are being accelerated; Hydrologic Framework tasks are also being accelerated.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **(\$775K); (13.2%)** [Last Month: (\$601K); (12.6%)]

Cause: Additional time required to solicit potential bidders and to implement DOE-directed guidance for virtual library software methodology.

Resolution: A BCP is in process to re-align the baseline for the remaining modules to provide a more realistic execution plan; schedule variance will be recovered by fiscal year end.

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PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

Cause: The Groundwater/River interface study did not start as scheduled due to high priority work.

Resolution: Additional resources on task have been assigned; schedule recovery is expected in June/July.

Cause: The Expert Panel Meeting originally scheduled to occur in March, was deferred until April. (Held April 25.)

Resolution: None.

• **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER02 200 Area Remedial Actions	4,213	810	825	(15)
ER08 Groundwater Management	30,897	12,227	11,994	233
VZ01 Groundwater/Vadose Zone	11,068	5,097	4,928	169
TOTAL Groundwater	46,178	18,134	17,747	387

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **(\$15K); (1.9%)** [Last Month: \$72K; 10.1%]

Cause: Actual project support rates have been slightly higher than planned.

Resolution: Overrun has been trended.

PBS-ER08 – Groundwater Management

Cost Variance = **\$233K; 1.9%** [Last Month: (\$156K); (1.5%)]

Cause: Sample collection and analysis underruns due to cancelling some well trips and analyses, and other Hanford Site Contractor's costs being less than planned. Underrun offset by an overrun in 100-HR-3 chemical treatment upgrades.

Resolution: Underrun will be used to perform additional environmental restoration work. Overrun has been trended and reflected in the Estimate at Completion (EAC).

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = **\$169K; 3.3%** [Last Month: \$64K; 1.5%]

Cause: Phase I characterization Features, Events, and Processes (FEP) review required fewer resources than planned; offsetting overrun in SAC historical matching related to system enhancements.

Resolution: Underrun will be used to perform other ER activities. Work on individual technical element history matching is complete and no additional variances are anticipated. Runtime reductions have been implemented and the project continues to seek ways to streamline the overall history matching and initial assessment runs.

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 March.
All other data as of April 26, 2001 (unless otherwise noted).**

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

ACCOMPLISHMENTS: SM&T

Surveillance and Maintenance (S&M): S&M activities that were performed in March to ensure inactive facility integrity and safety included the following:

- Completion of in-tank characterization sampling and visual examination for the two hexone tanks in the 200 Area. In-tank sampling was captured on videotape. Sample analysis and engineering evaluation are in progress.
- Completion of the 216-B-64 Retention Basin interim stabilization effort.
- Completion of the initial structural inspection of the Plutonium Uranium Reduction Extraction (PUREX) facility canyon roof. Observations indicate that water infiltration is continuing from the deteriorated roof cover.
- Implementation of the new 10 Code of Federal Regulations (CFR) 830 regulations. A crosswalk was provided to RL of the new 10CFR830 regulations to authorization basis documents for nuclear facilities.
- Initiation of B Reactor draft Engineering Evaluation/Cost Analysis (EE/CA) internal review. A plan and schedule are being prepared to support the public involvement process. The first public meeting is planned for late June.
- Completion of all fieldwork in support of the 190-KW building expansion joint effort. No additional deterioration (cracking) was noted after the February 28 earthquake.
- Completion of a regulatory documentation review for B Plant and PUREX facilities. A total of 215 project file boxes were searched for regulatory documentation. A final report is being prepared.
- Preparation and issuance of a draft conceptual plan and estimate (decisional draft) for sampling the vapor space in the Inactive Miscellaneous Underground Storage Tanks (IMUST). Copies will be sent to RL, regulators, and the Defense Nuclear Facilities Safety Board (DNFSB).

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.

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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: SM&T
<ul style="list-style-type: none">• DOE EM Performance Agreement: None identified at this time.
<ul style="list-style-type: none">• Tri-Party Agreement Milestones: None identified at this time.
<ul style="list-style-type: none">• DNFSB Commitment: None identified at this time.
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.

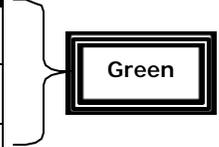
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PROJECT STATUS (COST/SCHEDULE): SM&T

- **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER05 Surveillance & Maintenance	6,818	6,300	(518)
ER07 Long-Term Surveillance & Maintenance	5	5	0
TOTAL SM&T	6,823	6,305	(518)



PBS-ER05 – Surveillance and Maintenance

Schedule Variance = **(\$518K); (7.6%)** [Last Month: (\$743K); (11.7%)]

Cause: Additional time was needed to evaluate new sampling and video equipment on the Hexone tank project. Evaluation of potential hazards by Engineering and an outside expert resulted in some delay. This also delayed work on the IMUST Strategy Plan and Long Range Plan (LRP).

Resolution: Sampling and video taping of the tanks interior contents will occur simultaneously, compressing the schedule. Work has started on a draft IMUST and LRP documents. In March and April, staff will be reassigned to this work; full recovery is expected.

Cause: In the Detailed Work Plan (DWP), the assumption was that the asbestos abatement subcontract would be awarded and expended in November 2000. Combining 100 and 200 Area asbestos work subsequently resulted in a subcontract where work will commence in April 2001 and still finish this fiscal year.

Resolution: A subcontract has been placed to execute work scope activities. Work is planned from April through August 2001. No further corrective action required.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY 2001)

Schedule Variance = N/A

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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

• **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
ER05 Surveillance & Maintenance	13,339	6,300	6,166	134
ER07 Long-Term Surveillance & Maintenance	52	5	2	3
TOTAL SM&T	13,391	6,305	6,168	137

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **\$134K; 2.1%** [Last Month: \$5K; 0.1%]

Cause: Underruns in 200 Area S&M work on passive vent sealing, waste disposition, and roof inspections; offset by Hexone tank sampling cost overruns due to additional engineering, job hazard analysis, mobilization costs, and by additional Canyon Disposition Initiative (CDI) core sampling cost.

Resolution: Underrun has been trended and is reflected in the EAC; underrun will be used to perform additional work. Sampling costs will continue to overrun and has been trended.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY 2001)

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

None identified at this time.