

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

July 2000



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



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

**ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION**

JULY 2000

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ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B – Restoring the River Corridor Project Summaries, and Section C – Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data is current as of May 31. Accomplishments, Issues and Integration items are current as of June 22, 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 FY00 Management Commitment milestones. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

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

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

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

Section A: Executive Summary

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
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SECTION A – EXECUTIVE SUMMARY

**Financial / Performance Measures data as of month-end May.
All other data as of June 22, 2000 (unless otherwise noted).**

NOTABLE ACCOMPLISHMENTS:

River Corridor:

On May 11, the ERDF transportation organization completed 4 million safe miles of waste hauling without an accident. This major milestone encompasses all remediation work since the first waste shipment was transported to ERDF in 1996.

A Request for Proposal (RFP) for the 100 B/C pipeline remediation is being prepared and is scheduled for completion by August. Subcontractor selection will be completed early in FY 2001.

Excavation of the waste sites and pipelines in the 100 D and 100 H Areas is nearing completion. The backfill subcontractor has begun mobilizing equipment in the 100 D Area.

The remediation subcontractor started mobilization activities in the 100 N Area. Soil remediation at 100 N Area is on schedule to begin in July to meet the requirements of the Hanford Site RCRA permit.

The Proposed Plan for the 100 Area Burial Grounds Interim Remedial Action, Rev. 1, was transmitted to RL on May 17. The 30-day public comment period was from May 22 through June 20, with a public meeting held in Hood River, Oregon on June 14.

The remaining FY 2000 excavation/remediation activities at the 300 Area 300-FF-1 Operable Unit are nearing completion. Demobilization activities are scheduled for completion by mid-July.

Engineering and planning for the F Reactor Fuel Storage Basin (FSB) are underway. A Memorandum of Understanding (MOU) was prepared with Fluor Hanford (FH) to obtain assistance in the event fuel fragments are found during the F Reactor FSB cleanup.

At the D and H Reactors, room-by-room walkdowns and estimates in accessible areas were completed. The Waste Management Plan for both D and H Reactors was also approved.

Cleanup and decontamination of the process hood floor was completed in the 233-S Plutonium Concentration Facility during May. A total of 51 polyjars (0.5 liter in size) of loose material was collected.

Results from the FY 1999 Procurement DOE Complex Balanced Score Card (BSC) indicate that Bechtel Hanford, Inc. (BHI) shared the highest score in the DOE complex in 4 of the 11 categories tracked by DOE. This is the second year in a row that BHI received the highest score in four categories, and this repeats prior high performance in the "Customer Satisfaction" and "Information Availability" categories. This is especially significant since the number of major DOE facility contractors participating in the BSC process has almost doubled, and now includes almost all of the major DOE complex contractors. For all of the remaining categories in which BHI participated, ERC's score was significantly above the DOE complex average.

The ER Project was recognized by the Secretary of Energy with a Certificate of Appreciation for contributions to DOE's mission to prevent pollution in operations, processes, and programs.

Green

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NOTABLE ACCOMPLISHMENTS:

Central Plateau:

The Groundwater/Vadose (GW/VZ) Integration Project conducted project briefings for HQ management and members of Senator Wyden's staff in Washington D.C. The expert panel meeting was also conducted in May.

The Semi-Annual Groundwater/Vadose Zone Report to Congress was completed on May 31. Completion of this report satisfied a FY 2000 management commitment milestone.

The Science and Technology (S&T) Roadmap Rev. 1 was completed. This revision to the document incorporated revisions to Inventory, Vadose Zone, Groundwater, and River technical elements. The Risk element in the WMA S-SX field investigation report was also added.

Draft A of the System Assessment Capability (SAC) Rev. 0, Assessment Description, Requirements, Software Design and Test Plan was completed, and is being reviewed by RL.

The design for the In Situ REDOX Manipulation (ISRM) evaporation pond was completed, and the construction bid package was issued for bid.

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

Legacy waste removal was completed at both the KE and KW Reactors in May. The legacy waste removal scope was verified to be satisfactorily completed by RL field inspection of the work sites and review of work packages and shipping documents.

Legacy waste removal was initiated at H Reactor in May.

Nineteen of the planned 26 cells have been accessed at the U Plant (221-U Building) canyon facility in FY 2000 in support of the Canyon Disposition Initiative (CDI).

Training was completed on the Brokk™ coring machine. This equipment will take concrete core samples inside the CDI access cells, and will be remotely operated by the canyon crane.

Green

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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

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

Green

Total Tri-Party Agreement Milestones Due in FY00	16
Total Planned Through May	12
Total Completed Through May	12

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

FY00 Management Commitment Milestones:

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

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

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

Status: Forecasted for completion by September 30. (16-well installation completed on April 24.)

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

Status: Complete. Final document was transmitted to RL on May 31.

Green

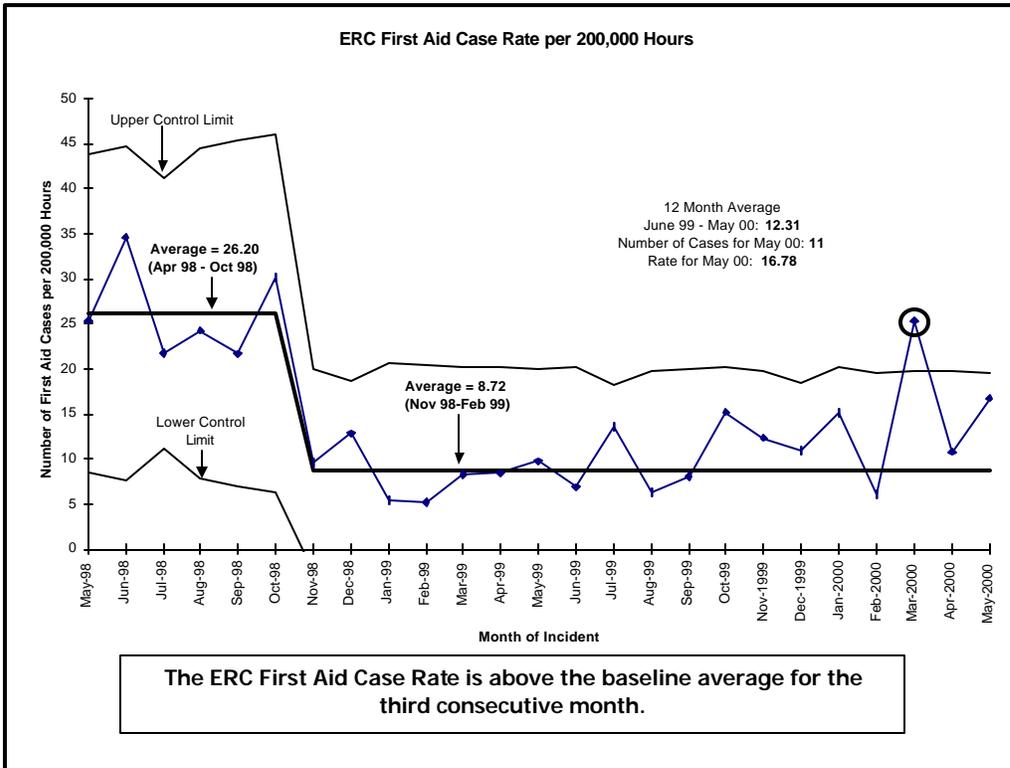
EM Corporate Performance Measures:

	DWP FY00	FY00 Mgmt Commitments	Current Baseline	Forecast for FY00	Completed YTD
Waste Site Assessments	121	167	168	168	168
Waste Site Cleanups	24	41	40	40	16
Technology Deployments	0	4	4	4	1

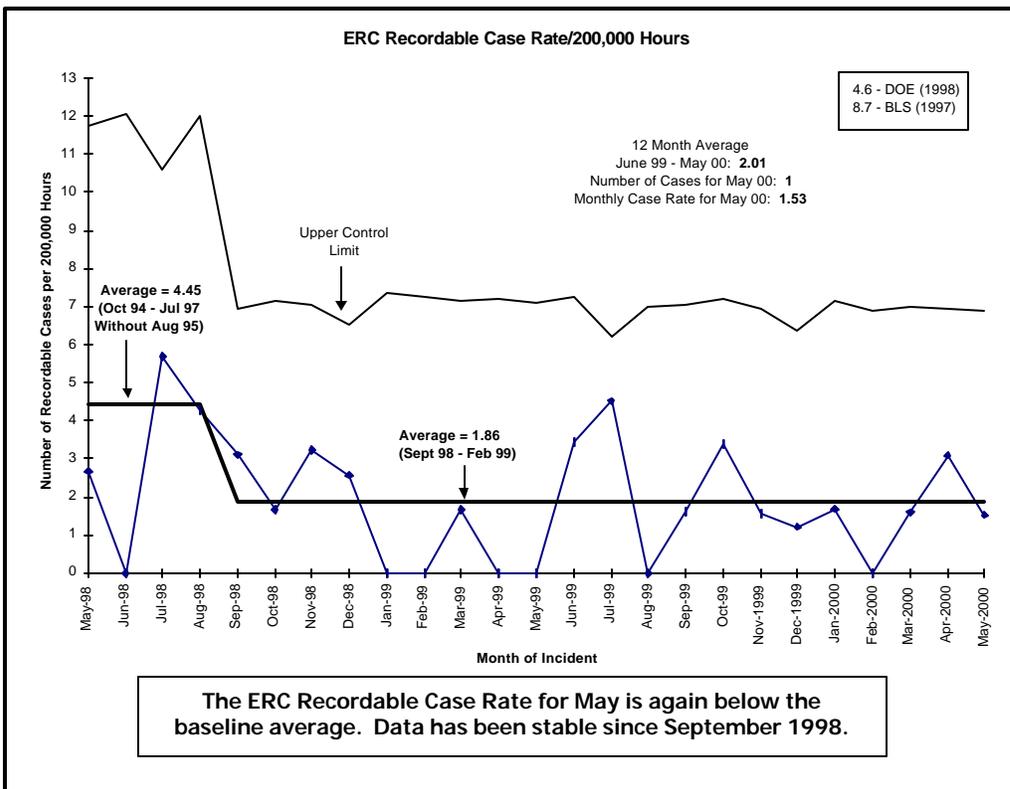
Green

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SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract): *Cross-Cutting Information*



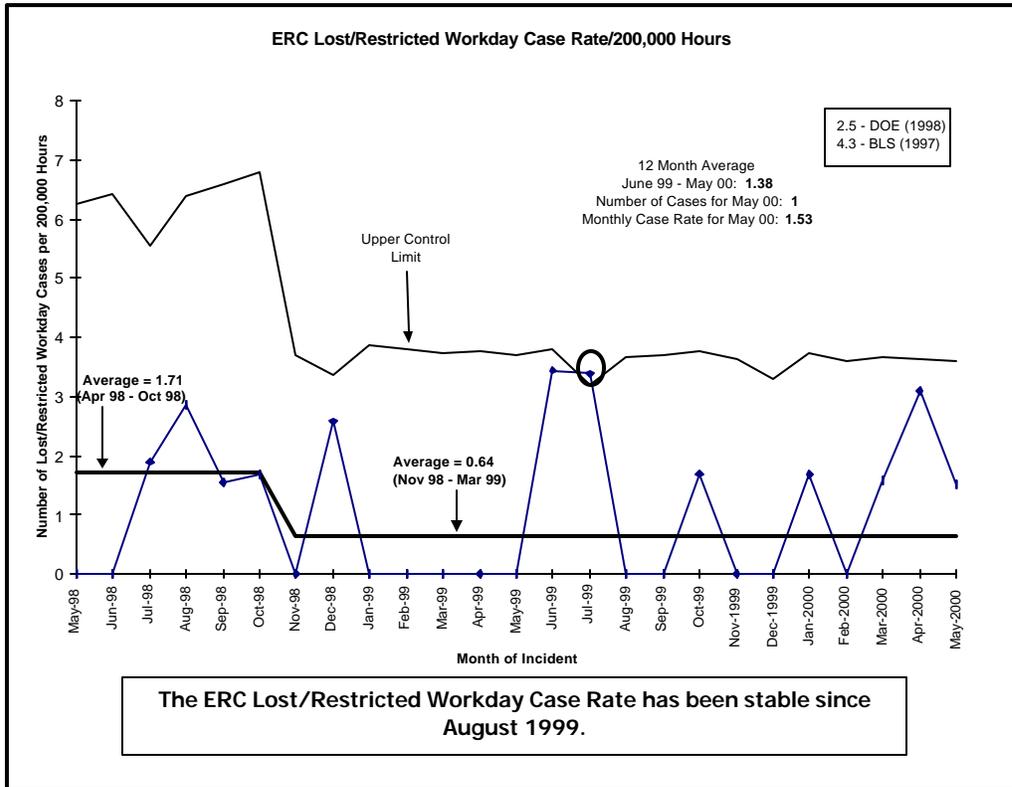
Green



Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION JULY 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued: *Cross-Cutting Information*



Green

Safety:

	YTD	Current Month (May)	Current Month Comments
First Aid	73	11	(1) puncture, (3) sprains/strains, (3) contusions, (2) lacerations, (1) bite/sting, (1) burn
Restricted Workday Case	5	1	(1) sore left elbow*
Lost Workday Case	1	0	N/A
OSHA Recordable	9	1	(1) sore left elbow (*same incident as above)

Green

-The ERC, as of June 17, 2000, reports 1,097,200 hours since the last lost workday incident.
-The last lost workday began October 8, 1999.

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SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued: *Cross-Cutting Information*

ISMS:

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

Green

Status:

- *Since last month, the ERC has received validation for both Phase I and Phase II of ISMS.*
- *The action plan transmitted to Keith Klein is still on schedule for completion by the end of the fiscal year.*
- *In addition, the ERC Team made a presentation in which an overview of our ISMS Implementation Strategy was given to the following RL personnel: Harry Boston, Beth Bilson, Shiv Seth (representing Pete Knollmeyer), and Doug Shoop.*
- *The integration of the ISMS program into the Environment, Safety, and Health Handbook has been initiated. This handbook will be issued to all ERC employees this summer.*
- *The BHI Board of Directors was debriefed on the ISMS Implementation Status and the path forward for ISMS.*
- *The Detailed Work Plan (DWP) for FY 2001 is currently under development. ISMS Program responsibility will be transitioned to the QS&H Department Manager for the next fiscal year.*

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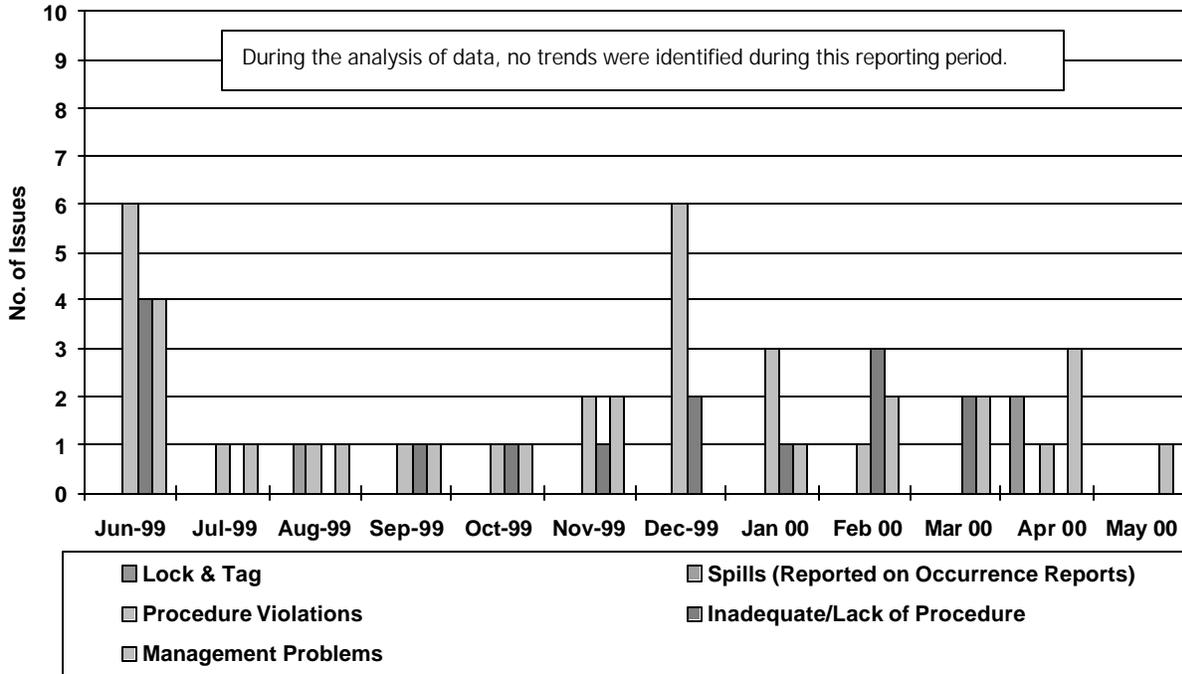
JULY 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued: *Cross-Cutting Information*

Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 6/1/99 through 5/31/00

	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan 00	Feb 00	Mar 00	Apr 00	May 00
Lock & Tag	0	0	0	0	0	0	0	0	0	0	2	0
Spills (Reported on Occurrence Reports)	0	0	1	0	0	0	0	0	0	0	0	0
Procedure Violations	6	1	1	1	1	2	6	3	1	0	1	0
Inadequate/Lack of Procedure	4	0	0	1	1	1	2	1	3	2	0	0
Management Problems	4	1	1	1	1	2	0	1	2	2	3	1



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

May Conduct of Ops Issues:

Management Problem:

Condition Description: (a) The Emergency Action Plan (EAP) for the 271-U <90-day Hazardous Waste Storage Units was not updated in accordance with Washington Administrative Code (WAC) 303-350-5. The emergency equipment list posted for the spill kit identified spill equipment that was not reflected in the EAP. (b) BHI-SH-03, Vol. 1 does not reflect the need to immediately amend EAPs per the above requirement. (c) The personnel responsible for the 271-U and 1330-N <90-day Hazardous Waste Storage Units were not aware of the requirement to "immediately amend" the EAPs whenever the emergency equipment for the storage units change.

Corrective Action Plan: (a) The EAP has since been changed (March 9). This procedure was changed to reflect this requirement. (b) Revised BHI-SH-03, Vol. 1 to reflect the need to immediately amend EAPs in accordance with WAC 303-350-5. (c) Project personnel involved with 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.



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BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *Cross-Cutting Information*

None identified at this time.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS: *Cross-Cutting Information*

Site-Wide Seniority (SWS): *Current BHI/THI manual staffing totals 271 personnel. Approximately 225 position openings will become available within the (Fluor Hanford) FH organization during FY 2000. Currently, 49 BHI/THI personnel have applied for transfer through the Labor Assets Management Program (LAMP) process. Continued loss of personnel will result in additional costs and potential impacts to critical work path activities.*

Green

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

Radiological Control Technician (RCT) and Industrial Hygiene Technician (IHT)

Lamping: *36% turnover in RCTs and 50% turnover for IHTs during the last 20 months (collectively the THI HAMTC turnover for LAMPs is 37.5%)*

Green

Impacts:

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

Status:

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

IMPORTANT INTEGRATION ACTIVITIES: *Cross-Cutting Information*

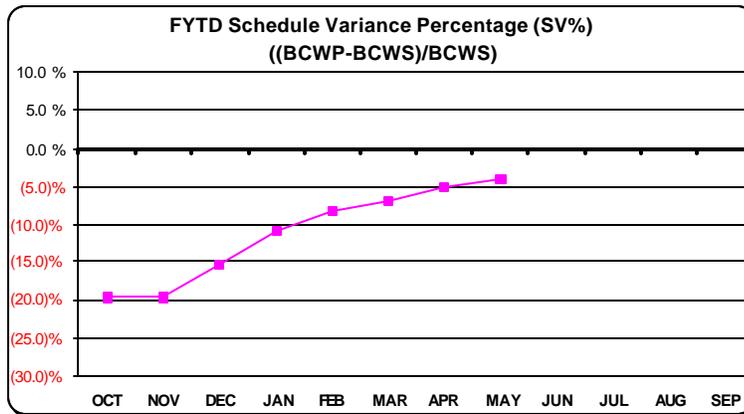
None identified at this time.

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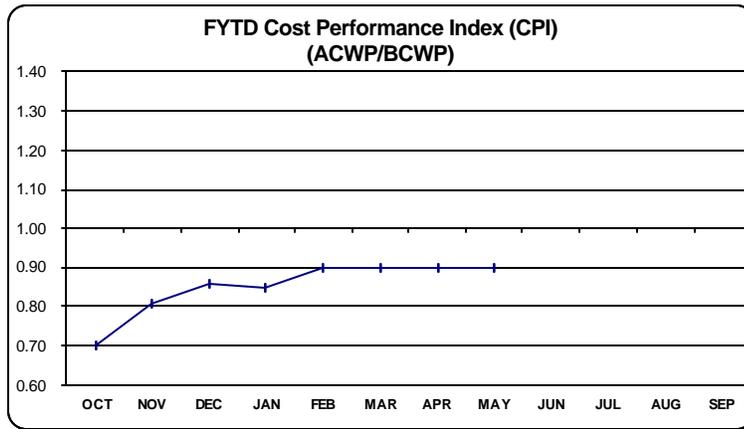
TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract): *Cross-Cutting Information*



Desired performance is better than -10%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,445	15,190	12,158	12,028	14,392	11,524	15,580
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	76,969	92,159	104,317	116,345	130,737	142,262	157,842
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	-	-	-	-
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,690)	(4,298)	-	-	-	-
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%	-4.1%	-	-	-	-
Yr End Sch Carry Over	268	353	240	320	192	270	1,385	2,128	-	-	-	-

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



Desired performance is 1.0 or less.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	CARRY OVER
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	12,199	14,037	11,240	-	-	-	-	-
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	-	-	-	-	-
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	-	-	-	-	-
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	-	-	-	-	-
CV	3,521	3,574	4,240	6,811	5,978	7,131	8,892	10,201	-	-	-	-	-
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90	0.90	-	-	-	-	-
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	104,998	121,404	133,554	148,021	150,149
Yr End Budget Var	1,967	3,638	4,793	5,074	5,521	5,482	6,206	7,693	-	-	-	-	2,128

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

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TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued: *Cross-Cutting Information*

FY 2000 PERFORMANCE FYTD MAY 2000 (\$K)

	DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE			FY00 EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	*CPI	
ER01 100 Area R/A	27,364	29,918	18,723	19,076	15,032	353	1.9%	4,044	21.2%	0.79	26,077
ER03 300 Area R/A	3,157	7,031	5,559	5,575	3,830	16	0.3%	1,745	31.3%	0.69	6,176
ER04 ER Waste Disposal	16,146	20,521	13,971	14,442	12,574	471	3.4%	1,866	12.9%	0.87	19,261
RA-Subtotal	46,667	57,470	38,253	39,093	31,436	840	2.2%	7,657	19.6%	0.80	51,514
ER02 200 Area R/A	3,534	3,669	3,242	3,101	2,114	-141	-4.3%	997	31.8%	0.68	2,720
ER08 GW Management	19,394	22,514	16,171	14,606	14,047	-1,565	-9.7%	559	3.8%	0.96	22,472
VZ01 GW/VZ	11,325	11,437	7,469	6,500	6,088	-969	-13.0%	412	6.3%	0.94	10,932
GW/VZ-Subtotal	34,253	37,620	26,882	24,207	22,249	-2,675	-10.0%	1,958	8.1%	0.92	36,124
ER06 D&D	8,446	17,093	10,687	10,216	9,712	-471	-4.4%	504	4.9%	0.95	16,783
DD-Subtotal	8,446	17,093	10,687	10,216	9,712	-471	-4.4%	504	4.9%	0.95	16,783
ER05 S&M	12,291	13,621	9,232	8,818	9,231	-414	-4.5%	-413	-4.7%	1.05	13,887
ER07 Long-Term S&M	47	47	20	30	28	10	50.0%	2	6.7%	0.93	47
SM-Subtotal	12,338	13,668	9,252	8,848	9,259	-404	-4.4%	-411	-4.6%	1.05	13,934
ER10 ERC PM&S	27,597	25,761	14,652	14,483	13,989	-169	-1.2%	494	3.4%	0.97	25,566
ER10 RL PM&S	5,800	6,228	4,591	3,172	3,172	-1,419	-30.9%	0	0.0%	1.00	6,228
PM-Subtotal	33,397	31,989	19,243	17,655	17,161	-1,588	-8.3%	494	2.8%	0.97	31,794
GRAND TOTAL	135,101	157,840	104,317	100,019	89,817	-4,296	-4.1%	10,202	10.2%	0.90	150,149

Green

*CPI = ACWP/BCWP

Cost/Schedule Status:

Cost Variance

At the end of May, the ER Project had performed \$100.0M worth of work, at a cost of \$89.8M. This accounts for a favorable cost variance of \$10.2M (10.2%). The positive cost variance is attributed to DR subcontract savings due to asbestos abatement changes and sampling efficiencies, site excavation/backfill savings, FR savings in site prep and staff reductions, borehole drilling and test pit trenching costs less than planned (due to efficiencies), early completion of ISRM drilling, and FY 1999 year-end accrual reversals.

Schedule Variance

The ER Project is \$4.3M (-4.1%) behind schedule for May. The negative schedule variance is attributed to delayed GW/VZ Integration Project S&T activities, Subpanel meeting dates, and formation of characterization core team; delayed groundwater well maintenance (resin regeneration) and monitoring; 233-S Facility roof duct removal, sampling, and analysis; weather delays in herbicide application; procurement for S&M Authorization Basis Development contract deferred due to change in implementation strategy (three contractors rather than one); and late billings for site-wide assessments.

PERFORMANCE OBJECTIVES: *Cross-Cutting Information*

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

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KEY INTEGRATION ACTIVITIES:

300 Area Acceleration: BHI supported FH in the development of an accelerated closure plan.

Green

Status: The BHI involvement is nearing the end. The Task Order ends on July 1. BHI has provided the technical volumes for D&D and Remedial Action. These technical volumes include scope, schedule, cost, and the methodology of the estimating. BHI is assisting in the final write-up of the FH deliverable to RL. FH completed an Independent Cost Evaluation (ICE) of the technical volumes and positive comments were provided.

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

Green

UPCOMING PLANNED EVENTS:

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

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

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

Tri-Party Agreement Milestone M-16-13A, Initiate Remedial Action in the 100-FR-1 Operable Unit, due September 29.

Green

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section B - River Corridor Information

July 2000

***Restore the
River Corridor***

- *Remedial Action and Waste Disposal Project*
- *Decommissioning Projects (Interim Safe Storage 233-S, 224B)*
- *Program Management and Support*

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Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

**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 May.
All other data as of June 22, 2000 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

ERDF Transportation and Operations: On May 11, the ERDF transportation organization completed 4 million safe miles of waste hauling without an accident. This major milestone encompasses all remediation work since the first waste shipment was transported to ERDF in 1996.

During May, shipments totaling 55,540 metric tons (61,223 tons) of contaminated waste were transported to the ERDF. 415,913 metric tons (458,468 tons) have been received in FY 2000 (6% more than planned). To date, 2,142,890 metric tons (2,362,144 tons) of material have been received and placed in the disposal facility (1% more than planned).

100 B/C Area Remediation: A baseline change proposal (BCP) requesting funding to finalize a procurement package for remediation of B/C pipelines was approved on May 16. An RFP is scheduled to be ready by August with procurement and subcontractor selection to be completed early in FY 2001. A start date for remedial action will be determined during the FY 2001 detailed work plan process.

100 D Area Remediation: Excavation of the waste sites and pipelines in the 100 D Area is nearing completion. Shearing of the 1.5- and 1.7-meter (60- and 66-inch) diameter steel pipe was completed, and the reduced sections were sent to ERDF for disposal. Asbestos abatement of pipe joints was completed, and only miscellaneous cleanup remains. Cutting of pipe with handheld torches was completed. Cleanup of pipe trenches progressed in preparation for analytical sampling. Concrete breaking was also completed.

The backfill subcontractor began mobilizing equipment at the site. Backfill of the 116-DR-1 and 2 trenches is scheduled to be completed the end of June. Approval to backfill the east/west portion of the north pipelines was received from the regulators on May 2. This approval also released all the stockpiled materials, associated with Group 2 (DR Area high priority), for use as backfill.

100 F Area Remediation. Final grading for the 100 F Area queue, frisking tent, equipment laydown, and support areas was completed. Hauling of crushed rock began.

100 H Area Remediation: The baseline excavation of 116-H-17 Trench Overflow, 116-H-2 Disposal Trench, and 100-H-5 Sludge Burial Pit were completed. All baseline excavations, except for the 100-H-24 Substation, are complete in the 100 H Area. Two large plumes in the 116-H-1 Disposal Trench and 116-H-7 Retention Basin (BCPs were approved) will extend the schedule to August. The last section of 0.5-meter diameter (20-inch) steel pipe was removed and sent for disposal. Drilling of the deep vadose characterization borehole was also completed.

Lead contamination was detected in soil samples collected from the 1607-H-2 septic tank waste site in concentrations ranging from 8.2 mg/kg to 48.5 mg/kg. These concentrations meet the Remedial Action Goal (RAG) for direct exposure (353 mg/kg). However, the soil RAGs for lead protection of groundwater and the Columbia River are at Hanford Site background levels (10.2 mg/kg). In the case of the 1607-H-2 site, with the present lead concentrations, the site fails the groundwater and river protection criteria. A test pit was dug and vertical profile samples were taken to quantify the depth of the elevated lead concentrations.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

ACCOMPLISHMENTS continued: RAWD

The Group 4 (H, F, and K Area) Remedial Action Project has safely completed loading, packaging, and hauling 20,000 containers since the project began on March 17, 1999; an article was also published in the Hanford Reach.

An Emergency Response drill was completed. The drill simulated a take cover action with a follow on evacuation. Personnel responded extremely well and a few minor areas of improvement were noted.

100 N Area Remediation: *Soil remediation at 100 N Area is on schedule to begin in July to meet the requirements of the Hanford Site RCRA permit. The remediation subcontractor started mobilization activities including site-specific training of field craft, grading for the Container Transfer Facility and survey tent, installing cultural exclusion area fencing, and setting up trailers. A Management of Change (MOC) document is being prepared to revise the 116-N-3 ASA. Excavation at 116-N-3 cannot begin without RL approval of this MOC.*

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

Review comments on the RDR/RAWP were received on May 15, and the RDR/RAWP, Rev. 0 was issued on June 5.

100 Area Burial Ground ROD. *The Proposed Plan for the 100 Area Burial Grounds Interim Remedial Action, Rev. 1, was transmitted to RL on May 17. The 30-day public comment period began May 22 through June 20, with a public meeting held in Hood River, Oregon on June 14.*

300 Area Remediation: *The remaining FY 2000 excavation/remediation activities at 300-FF-1 are nearing completion over the next two months. The subcontractor has started primary site demobilization. Landfill 1A/1B hotspots, South Process Pond, pipeline excavation work and loadout of Landfill 1D soils are scheduled to be completed by early July with final demobilization activities to be complete by mid-July.*

300 Area Assessment: *DOE is transmitting Rev. 0 of Proposed Plan and Focused Feasibility Study to the regulators. Public comment period to begin July 3.*

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD

Waste Minimization 126-F-1 Ash Pit: *The project deployed two off-the-shelf technologies (geo-probe and sodium iodide detector) to perform in-situ characterization that resulted in 50% reduction in waste site volume. Preliminary cost savings is estimated at \$5M.*

Status: *Developing plan for site closeout. Project is presently in planning phase of deploying EM-50 funded wireline sampling unit technology to support sampling. Scheduled for August deployment.*

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD

100 Area Burial Grounds: Approval of the Record of Decision (ROD) is planned for September.

Green

Status: Public comment period has been completed. Comments to be incorporated into Proposed Plan and Focused Feasibility Study. Currently tracking on schedule to support September 30 approval of ROD.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD

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

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

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JULY 2000

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

TPA Milestones:

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

Green

Yellow

**Unrecoverable due to funding constraints. Resolution needs to be negotiated with the regulators. The path forward is to submit a TPA change package and evaluate out-year funding and priorities. B/C pipeline procurement activities have been initiated. RFP is scheduled for completion in August with contract award scheduled for early FY 2001.*

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

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JULY 2000

PERFORMANCE OBJECTIVES: RAWD

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

Green

PERFORMANCE MEASURES: RAWD – (River and Plateau)

	DWP FY00	FY00 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
<i>Waste Sites</i>	24	41 ^b	40	40	16
<i>100 Area Burial Ground Assessments</i>	0	46	47	47	47 ^a
<i>300-FF-2 Assessments</i>	119	119	119	119	119 ^a
<i>Other Assessments</i>	2	2	2	2	2
<i>Tons</i>	389K	N/A	631K	631K	458K

Green

^a Proposed Plan, Draft A submittal.

^b Although soil remediation quantities have increased, the number of sites has been adjusted through baseline change control to allow for plume growth.

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JULY 2000

STRETCH AND SUPERSTRETCH GOALS: RAWD

FY00 RAWD "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Perform Excavation in Unfunded Sites in 100 B/C, HR-1, FR-1, 100, and 300 Area and Plumes:</i>		
(1) <i>Extended Plumes at 316-1 S Pond (BCP-20043)</i>		\$1,202.8K
(2) <i>Additional Plumes at 100-DR (BCP-20050)</i>		\$905.8K
(3) <i>Additional Plumes at 100-HR (BCP-20119)</i>		\$240.3K
(4) <i>Additional Plumes at 100-HR (BCP-20130)</i>		\$426.7K
(5) <i>Additional Plumes at 300-FF (BCP-20113)</i>		\$669.4K
(6) <i>Additional Plumes at 100-DR (BCP-20116)</i>		\$175.2K
(7) <i>Defer Backfill at 100-DR (BCP-20166)</i>		(\$93.2K)
(8) <i>Additional Plumes at 100-DR (BCP-20189)</i>		\$124.9K
(9) <i>Additional Plumes at 100-DR (BCP-20215)</i>		\$101.1K
<i>S/Total Remedial Action Stretch Goals:</i>	\$4,560.0K	\$3,752.9K

Green

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

Green

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

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	18,723	19,076	353
ER03 300 Area Remedial Actions	5,559	5,575	16
ER04 ER Waste Disposal	13,971	14,442	471
TOTAL Remedial Actions	38,253	39,093	840

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = +\$353K; +1.9% [Last Month: +\$503; +3.1%]

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

Resolution: None required.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = +\$16K; +0.3% [Last Month: +\$292K; +5.9%]

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

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

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = +\$471; +3.4% [Last Month: +\$264K; +2.2%]

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

Resolution: None required.

• **Cost:**

Remedial Action & Waste Disposal Project	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	19,076	15,032	4,044
ER03 300 Area Remedial Actions	5,575	3,830	1,745
ER04 ER Waste Disposal	14,442	12,574	1,868
TOTAL Remedial Actions	39,093	31,436	7,657

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = +\$4044K; +21.2% [Last Month: +\$3441K; +20.4%]

Cause: Savings in DR-1 subcontract costs due to improving asbestos abatement process and fewer samples required; FR savings in site prep and staff reductions by re-allocating forces between F & H areas; labor savings on B/C backfill activities; waste minimization and drilling savings at HR near-river excavation sites.

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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued): RAWD	
<p>Resolution: Savings will be used to perform other remediation work.</p> <p>PBS-ER03 – 300 Area Remedial Action Cost Variance = +\$1745K; +31.3% [Last Month: +\$1837K; +35.1%]</p> <p>Cause: Management and administrative cost efficiencies at Landfills 1A/1B, and FY 1999 accrual reversal in South Process Pond remediation.</p> <p>Resolution: Savings will be used to perform other remediation work.</p> <p>PBS-ER04 – Environmental Restoration Waste Disposal Cost Variance = [\$1868K; +12.9%] [Last Month: +\$1555K; +12.4%]</p> <p>Cause: ERDF cover design and construction closeout completed with fewer resources than planned; FY 1999 over accrual.</p> <p>Resolution: Savings will be used to perform other remediation work.</p>	
REGULATORY ISSUES: RAWD	
<p>300-FF-2: Work is ongoing to prepare decision documents for the public review period scheduled for July. Ecology has issues with the preliminary remediation goals (PRGs) being developed for 300-FF-2. EPA, who supports the PRGs, will be addressing issues with Ecology with support from RL.</p> <p>Status: EPA and Ecology are in agreement on PRGs. Public comment scheduled to begin July 2.</p>	<div style="border: 3px double black; padding: 5px; width: 80px; margin: auto;">Green</div>
<p>M-16-26B: M-16-26B, Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines at B/C, DR, and HR, by February 28, 2001, will be missed due to lack of funding for 100 Area B/C pipelines and arsenic issue at 100 H.</p> <p>Status: A resolution is required to be negotiated with the regulators. The path forward is to submit a TPA change package to the regulators for review and evaluate outyear funding and priorities. An RFP is scheduled to be ready by August with procurement and subcontractor selection to be completed early in FY 2001. A start date for remedial action will be determined during the FY 2001 detailed work plan process.</p>	<div style="border: 3px double black; padding: 5px; width: 80px; margin: auto;">Yellow</div>
<p>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 encountered during confirmation sampling and verification activities (lead arsenate pesticides were used on pre-Hanford agricultural areas).</p> <p>Status: After completing additional arsenic sampling throughout the 100 Areas, Ecology has agreed to use the Washington state background value of 20 mg/kg for arsenic. A BCP was approved that addresses the scope change. A TPA change package will be initiated.</p>	<div style="border: 3px double black; padding: 5px; width: 80px; margin: auto;">Yellow</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD	
<p>None identified at this time.</p>	

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

None identified at this time.

INTEGRATION ACTIVITIES: RAWD

ERDF: *In support of Hanford Site partnering, draft waste shipping and receiving plans (WSRPs) have been prepared for the two initial waste streams expected from the Spent Nuclear Fuel (SNF) Project's K Basin clean out work. Initial delivery of waste from the SNF is targeted for June 26.*

Green

Decommissioning Projects (D&D)

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SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end May.
All other data as of June 22, 2000 (unless otherwise noted).

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor ISS: The F and DR Removal Action Work Plan (RAWP) was revised to incorporate the F Reactor fuel storage disposition plan and air monitoring plan. The RAWP was forwarded to the regulators on May 4. F Reactor backfilling was initiated in the below-grade gas recirculation tunnel and plenum demolition areas in late May. Authorization for demolition of the F Reactor Fuel Storage Basin (FSB) was approved in April. Engineering and planning are underway, but are approximately two weeks behind schedule due to late start of activities. Full schedule recovery is expected. The water removal plan and the fuel transfer plan are both nearing completion. A Memorandum of Understanding (MOU) was prepared with Fluor Hanford (FH) to obtain assistance in the event fuel fragments are found during the F Reactor FSB cleanout.

At the DR Reactor, demolition and loadout was completed for the below-grade exhaust plenum and south gas recirculation tunnels. Concrete pourback forming was completed in the below-grade valve pit, accumulator trench, and north gas tunnel area. Pourback forming is progressing in the south gas recirculation tunnel. Concrete pouring is scheduled for late June. A meeting was held with the regulators on May 17 to resolve the issue of higher than expected levels of carbon -14, chromium +6, and polychlorinated biphenyls in the DR FSB concrete. Agreement was reached that the contaminant concentrations were low enough and sufficiently immobile to allow the FSB floor slab to remain in place. Water removal and demolition preparation activities were completed in the transfer bay and FSB. Demolition of these two areas began on May 31.

D and H Reactor ISS: Room-by-room walkdowns and estimates in accessible areas were completed for both D and H Reactors. The Waste Management Plan for the D and H Reactors was approved. Task instructions and radiological work permits were completed in preparation for the biological cleanup of both reactors scheduled in June. Work progressed on the H Reactor Auditable Safety Analysis (ASA) document.

B Reactor: The draft B Reactor Safe Storage Phase II Feasibility Study is nearing completion. Additional engineering support was obtained to assist with the rough order of magnitude estimates for hazard identification that was outside the original scope. The additional hazard identification was requested by the regulators.

300 Area Acceleration Closure Project: Decontamination and decommissioning (D&D) quantity takeoffs, walkdowns, and estimates were completed in May. Draft sections of the D&D Technical Volume were also completed.

233-S Plutonium Concentration Facility Decommissioning Project: Substantial work continued to be accomplished at the highly contaminated 233-S Plutonium Concentration Facility Decommissioning Project, including the following activities:

- Completed dry cleanup and gross decontamination of the process hood floor, and collected a total of 51 polyjars (0.5 liter in size) of loose material.
- Removed eight first-floor channel iron pieces from the process hood east face, and two fourth-floor PMMA panels from the process hood front face.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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ACCOMPLISHMENTS continued: D&D														
<ul style="list-style-type: none"> • Completed core drilling of the third 30.5-centimeter (12-inch) ventilation hole on the south wall of the loadout hood room. Installed two exhausters to support localized exhaust. • Completed de-energized electrical verifications, conduit cutting, selected equipment removal, and mockup training in preparation for selected grating removal. • Shipped 28 meters (92 feet) of supply duct to ERDF. 	}	<div style="border: 3px double black; padding: 5px; width: 60px; margin: 0 auto;">Green</div>												
SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D														
<p>Contamination detected under manufactured belt loops of Powered Air Purifying Respirators (PAPR).</p> <p>Status: The immediate actions for PAPR belt loop contamination problems that originated at 233-S was to allow workers to use the manufactured belt loops or create a temporary belt loop out of duct tape. Radiological Control personnel now disassemble the manufacturer's belt loops for survey to ensure there is no contamination in this previously inaccessible area. Corrective actions have not yet been determined. BHI is currently performing a formal root cause analysis (RCA) on the issues of contaminated PAPR units and procedure non-compliance. Upon completion, the conclusions will be distributed to organizations that would have responsibility for determining the best corrective action.</p>	}	<div style="border: 3px double black; padding: 5px; width: 60px; margin: 0 auto;">Yellow</div>												
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. • DOE EM Performance Agreement: 224B: Complete draft Engineering evaluation/cost analysis (EE/CA) and submit to regulators – July 2000. Complete draft SAP and submit to regulators – September 2000. <p style="text-align: center;">Status: Assessment activities in 224B in support of decommissioning have ceased. A BCP to close out the remainder of the 224B activities in FY 2000 has been approved.</p>				}	<div style="border: 3px double black; padding: 5px; width: 60px; margin: 0 auto;">Green</div>									
<ul style="list-style-type: none"> • TPA Milestones: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #333; color: white;"> <th style="width: 15%;">Milestone</th> <th style="width: 45%;">Description</th> <th style="width: 15%;">Due Date</th> <th style="width: 25%;">(F)/(A) Date</th> </tr> </thead> <tbody> <tr> <td>M-93-05</td> <td>Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment</td> <td>6/30/00</td> <td>6/30/00 (F)</td> </tr> </tbody> </table>				Milestone	Description	Due Date	(F)/(A) Date	M-93-05	Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment	6/30/00	6/30/00 (F)	}	<div style="border: 3px double black; padding: 5px; width: 60px; margin: 0 auto;">Green</div>	
Milestone	Description	Due Date	(F)/(A) Date											
M-93-05	Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment	6/30/00	6/30/00 (F)											
(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: D&D														
<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: *D&D*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	<i>Reactor ISS and preparation of facilities for decommissioning.</i>	<i>Baseline reactor ISS work is projected to be completed per PI requirements.</i>
	<i>Maintain facilities until D&D (233-S).</i>	<i>FY 2000 work resequenced via BCP-20141, approved March 14, 2000. New performance indicators drafted and submitted for approval.</i>
	<i>Maintain facilities until D&D (224B).</i>	<i>BCP-20224 has been approved and recommends deletion of the performance measure.</i>
Transition Central Plateau to Support Long-Term Waste Management		

Green

PERFORMANCE MEASURES: *D&D*

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

Green

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

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

STRETCH AND SUPERSTRETCH GOALS: *D&D*

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

Green

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

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

• **Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	10,687	10,216	-471
Total D&D	10,687	10,216	-471

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = -\$471K; -4.4% [Last Month: -\$973K; -10.0%]

Cause: 233-S decommissioning; delay in removal of exhaust roof duct pending completion of scaffolding installation and decontamination and fixative application of the Process Hood. Procurement of Standard waste box (SWB) waste containers is also behind schedule due to offsite procurement rather than on-site.

Resolution: Exhaust duct removal is planned to start in July after completion Process Hood decontamination. Waste containers are expected in July and shipment of TRU to Central Waste Complex (CWC) is scheduled for August.

• **Cost:**

Decommissioning Projects	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	10,216	9,712	504
TOTAL D&D	10,216	9,712	504

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = +\$504K; +4.9% [Last Month: +\$426K; +4.9%]

Cause: F and DR ISS sample analysis cost is lower than expected due to utilizing larger data groups (economies of scale).

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

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

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

REGULATORY ISSUES: *D&D*

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

Green

Status: Initial discussions with the regulators have started which may lead to resolution in the near future.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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REGULATORY ISSUES continued: D&D	
<p>DR Reactor Fuel Storage Basin (FSB): Analytic results for the DR Reactor FSB indicate a potential concern with chromium +6, carbon -14, and polychlorinated biphenyl levels in the concrete floor of the basin.</p> <p>Status: EPA and Ecology have agreed that the remaining concentrations are acceptable and protective of the environment, and the basin need only be removed to the minus 15-foot level per the original plan.</p>	<div style="border: 3px double black; padding: 5px; width: 60px; margin: auto;">Green</div>
<p>D and H Reactor Engineering Evaluation/Cost Analysis (EE/CA): The D and H Reactor EE/CA schedule required regulator reviews to be completed by April 19 to meet established Detailed Work Plan (DWP) goals. The EE/CA was completed in March.</p> <p>Status: EPA stated that it wants to address the TPA reactor milestones before approving an action memorandum for D and H Reactors. EPA indicated that the cost for two reactors exceeded the cost threshold, and therefore would require review by the EPA Remedy Review Board. In order to expedite review and not exceed the cost criteria, a separate EE/CA for each reactor will be transmitted to RL and the regulators on June 15. ER will continue to work with EPA and Ecology to ensure an action memorandum can be issued by the end of FY 2000.</p>	<div style="border: 3px double black; padding: 5px; width: 60px; margin: auto;">Green</div>
<p>Demolition Equipment: Demolition equipment (trackhoe excavators and shuttle truck) breakdowns continue to cause demolition schedule delays.</p> <p>Status: Mechanics continue to repair the equipment as quickly as possible. Impact sheets are being completed to track the delays. Problems/impacts were presented to RMT. Field Support developed an equipment priority list and was directed to prepare a procurement plan for a new excavator.</p>	<div style="border: 3px double black; padding: 5px; width: 60px; margin: auto;">Green</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D	
None identified at this time.	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D	
None identified at this time.	
INTEGRATION ACTIVITIES: D&D	
None identified at this time.	

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 May.
All other data as of June 22, 2000 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: *PM&S*

Compliance, Quality, Safety, and Health:

Compliance and Quality Programs: A report was completed that will be used in an independent assessment of the corrective action plan submitted to EPA and Ecology in response to a Notice of Violation. The independent assessment was initiated by BHI management to verify that the corrective action plan had been implemented.

Five opportunities for improvement and 28 concerns from the RL Integrated Safety Management Survey Verification Report were entered into the ERC Corrective Action Tracking System.

Safety and Health: A series of briefings were presented to ERC Projects personnel concerning the timeliness of event notifications to line management. Event information did not reach line management soon enough to make timely response decisions in several recent events. The briefings were conducted at two locations in 200 West and one location at 100 N and 100 D Areas, and included response drivers, responsibilities, and consequences.

Program and Project Support:

Publication & Graphics (P&GS): Two meetings were held at 3350 GWW to host an RL-sponsored Site Services Review Team that consisted of representatives from RL, FH, HEHF, PNNL, and BHI. The purpose of the meetings was to provide the team with information on BHI processes for providing support services in the areas of records management, printing, duplicating, photographic services, and graphic design. A tour of a local vendor's offsite duplicating facility was included as one part of these meetings.

Procurement and Property Management: The FY 1999 Procurement DOE-Complex Balanced Score Card (BSC) results indicated that BHI received the highest score (tied) in the DOE complex in four of the eleven categories tracked by DOE. The four categories were Customer Satisfaction, Effective Internal Controls, Employee Alignment, and Information Availability. This is the second year in a row that BHI received the highest score in four categories and includes a repeat performance in the "Customer Satisfaction" and "Information Availability" categories. This is especially significant since the number of major DOE facility contractors participating in the BSC process has almost doubled and now includes almost all of the major DOE complex contractors. In addition, for all of the remaining categories that BHI participated in, BHI's score was significantly above the DOE complex average.

Engineering & Technology:

Technology Applications: The Technology Applications group hosted a visit by the National Research Council Committee on Deactivation and Decommissioning Research Needs. The committee toured the Hanford Site and attended presentations on D&D Projects.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

ACCOMPLISHMENTS continued: PM&S

Environmental Technologies: A review was completed of the first quarter environmental sample disposition records. 934 samples were collected with no chronic or systematic problems associated with the sampling and analysis services identified.

45 miscellaneous radiologically posted areas were added into the Waste Information Data Systems (WIDS) as new waste sites, and a walkdown of the remaining 1100 Area sites was performed with EPA and RL, whereby six sites were approved as "rejected".

In May, an implementation plan was developed for ensuring compliance with the new DOE Order 435.1. The ER plan was also incorporated into the Hanford site-wide implementation plan.

ER was recognized by the Secretary of Energy with a Certificate of Appreciation for contributions to DOE's mission to prevent pollution in operations, processes, and programs.

Automation Technology: Effectively responded to VBS.Loveletter.A (Lovebug) computer virus attack. The virus was immediately discovered at 6:30 a.m. on May 4 and all e-mail services were shutdown. Throughout the day, Automation Technology worked diligently to update the ERC virus protection software and virus definition files. All file servers were scanned and e-mail service was restored by 7:30 p.m. All other BLAN services were available throughout the day.

Established connectivity to the online Material Safety Data Sheet (MSDS) between the Bechtel Local Area Network and the Hanford Local Area Network. Real-time access to this data will reduce the time it takes to process shipping documents pertaining to chemicals.

Planning & Controls:

Staff/Baseline: Several documents and worksheets were created in support of the FY 2001-2003 DWP development. Items included the P3/Parade guidance document, shells containing resource rates, and cost estimating worksheets. The FY 2001-2003 DWP Development Process Guidance document was also issued.

The ERC FY 2000 Mid-Year Review Report was completed. A presentation was made to Hanford RL management and HQ personnel on May 8-9.



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

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): PM&S

- **(5A) DOE Secretarial:**
None identified at this time.
- **(5B) 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: PM&S

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

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

PERFORMANCE OBJECTIVES: PM&S

None identified at this time.

PERFORMANCE MEASURES: PM&S

Technology Deployment	PBS	Planned Date	(F)/(A) Date	
Liquid-Level Detection Technology (Ultrasonics)	RL-ER05	10/99	10/99 (A)	
Remote Concrete Sampling System (Brokk™ with automated concrete coring attachment)	RL-ER05	03/00	06/00 (F)	
3-D Visual and Gamma Ray Imaging System	RL-ER05	06/00	07/00 (F)	
Liquid-Level Detection Technology (Thermography and/or Ultrasonics)	RL-ER05	09/00	09/00 (F)	

STRETCH AND SUPERSTRETCH GOALS: PM&S

None identified at this time.

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

- Schedule:**

Program Management & Support	BCWS	BCWP	Variance	
	\$K	\$K	\$K	
ER10 ERC Program Management & Support	14,652	14,483	-169	
ER10 RL Program Management & Support	4,591	3,172	-1,419	
TOTAL PM&S	19,243	17,655	-1,588	

PBS-ER10 – Program Management and Support
Schedule Variance = **-\$1588K; -8.3%** [Last Month: -\$1294K; -7.7%]

Cause: Late billing on site-wide assessments.

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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

- Cost:**

Program Management & Support	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	14,483	13,989	494
ER10 RL Program Management & Support	3,172	3,172	0
TOTAL PM&S	17,655	17,161	494

Green

PBS-ER10 – Program Management and Support
 Cost Variance = **+\$494K; +2.8%** [Last Month: +\$341K; +2.2%]

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

Resolution: None required.

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

None identified at this time.

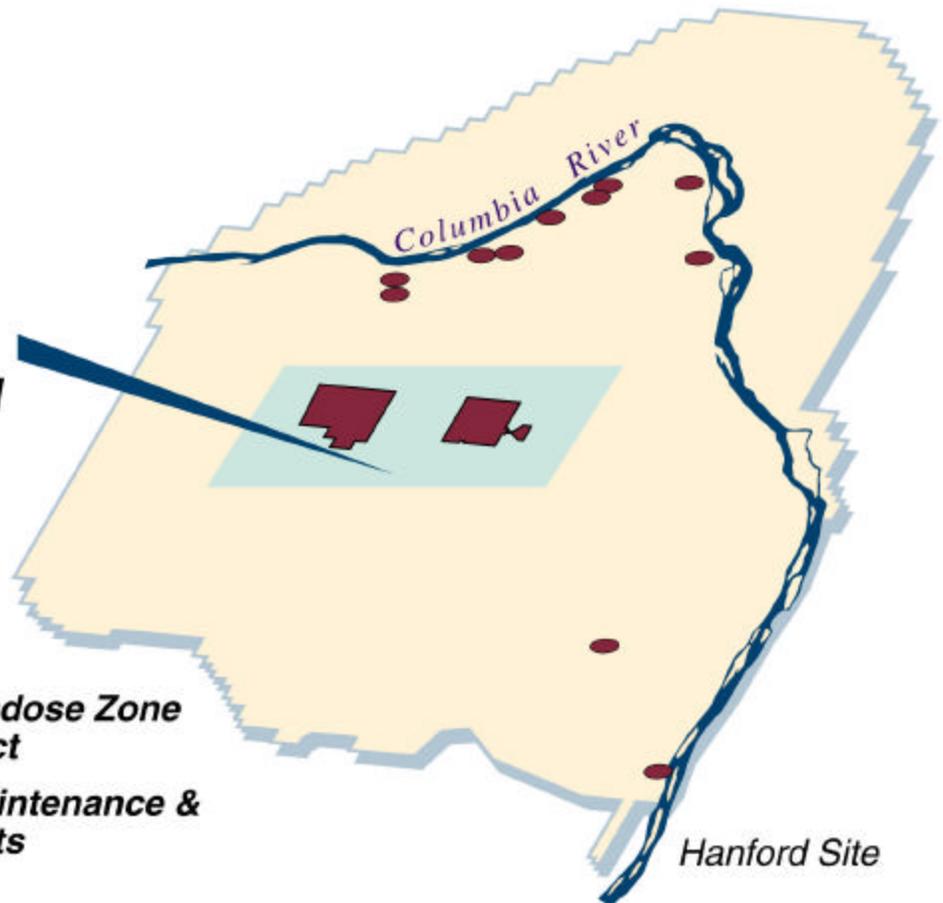
Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section C - Central Plateau Information

July 2000

***Transition the
Central Plateau***



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

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



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Groundwater/Vadose Zone Integration (GW/VZ)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION

JULY 2000

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end May.
All other data as of June 22, 2000 (unless otherwise noted).

Groundwater/Vadose Zone Integration (GW/VZ):

ACCOMPLISHMENTS: GW/VZ

GW/VZ Integration Project:

General Project Activities: Project briefings were conducted for HQ management and members of Senator Wyden's staff in Washington D.C. The expert panel meeting was conducted in May. The Idaho National Engineering and Environmental Laboratory's (INEEL) complex-wide Roadmapping workshop was also attended.

Public Involvement: The Semi-Annual Groundwater/Vadose Zone Report to Congress was completed on May 31. Completion of this report satisfied a FY 2000 management commitment milestone. Meetings were held with the Nez Perce Tribe and the regulators to discuss FY 2001-2003 Detailed Work Plan (DWP) assumptions and the SAC.

Science and Technology: The S&T Roadmap Rev. 1 was completed. This revision to the document incorporated revisions to Inventory, Vadose Zone, Groundwater, River technical elements, and added the Risk element in the WMA S-SX field investigation report. Additionally, the field test site was prepared for the Vadose Zone Transport Field Study, including installation of monitoring equipment.

System Assessment Capability: Draft A of the SAC Rev. 0, Assessment Description, Requirements, Software Design and Test Plan was completed. RL is reviewing the document.

Groundwater Management:

In Situ REDOX Manipulation Project: The design for the ISRM evaporation pond was completed, and the construction bid package was issued for bid. The Remedial Design Report/Removal Action Work Plan (RDR/RAWP) was issued to RL and Ecology for review and concurrence.

Long-Term Groundwater Monitoring: Preparations were made for kick-off workshops in the planning of future RCRA monitoring wells. To date, discussions have focused on proposed Liquid Effluent Retention Facility (LERF) monitoring alternatives. A statistical approach for the 300 Area Process Trenches RCRA monitoring was addressed in a letter to Ecology in response to comments received.

Tritium Investigation: Draft A of the Data Quality Objective Report was finalized for regulator review. This report will provide the basis for the Phase II Tritium Investigation scope.

200 Area Assessment:

Review comments were received from the regulators for the 200-CW-5 U Pond/Z Ditches Cooling Water Waste Group RI/FS Work Plan.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: <i>GW/VZ</i>	
<i>None identified at this time.</i>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>GW/VZ</i>	
<i>None identified at this time.</i>	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): <i>GW/VZ</i>	
<ul style="list-style-type: none"> <p>• DOE Secretarial: <i>Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.</i></p> <p style="text-align: center;">Status: <i>Complete. Draft was transmitted to RL on April 28.</i></p> <p><i>Install Wells and Initiate Injection of the Barrier for Phase I of the In Situ REDOX Groundwater Remediation (PBS ER08) due September 30.</i></p> <p style="text-align: center;">Status: <i>Forecasted for completion by September 30. (16-well installation was completed on April 24).</i></p> <ul style="list-style-type: none"> <i>Ecology has stated their concurrence with the activities described in the Revision 0, Remedial Design Report / Remedial Action Work Plan (DOE/RL-99-51, Rev. 0, May 2000).</i> <i>The evaporation pond contract was awarded in early June. The contractor will be mobilizing mid-June to construct the evaporation pond used for well extraction waste management activities.</i> <i>Well injections are forecasted to begin sometime in July, to be completed in September.</i> <p><i>Complete the Semi-Annual Groundwater/Vadose Zone Report (December 1999 – March 2000) (PBS VZ01) due May 31.</i></p> <p style="text-align: center;">Status: <i>Complete. Final document was transmitted to RL on May 31.</i></p> 	<div style="border: 3px double black; width: 60px; height: 25px; margin: 10px auto; display: flex; align-items: center; justify-content: center;">Green</div> <div style="border: 3px double black; width: 60px; height: 25px; margin: 10px auto; display: flex; align-items: center; justify-content: center;">Green</div> <div style="border: 3px double black; width: 60px; height: 25px; margin: 10px auto; display: flex; align-items: center; justify-content: center;">Green</div>
<ul style="list-style-type: none"> <p>• DOE EM Performance Agreement: <i>None identified at this time.</i></p> 	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

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

TPA Milestones:

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

Green

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

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

PERFORMANCE OBJECTIVES: GW/VZ

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

Green

PERFORMANCE MEASURES: GW/VZ

None planned in FY 2000.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

STRETCH AND SUPERSTRETCH GOALS: *GW/VZ*

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

Green

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

Green

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

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

- **Schedule:**

Groundwater Vadose Zone Integration	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER02 200 Area Remedial Actions</i>	3,242	3,101	-141
<i>ER08 Groundwater Management</i>	16,171	14,606	-1,565
<i>VZ01 Groundwater/Vadose Zone</i>	7,469	6,500	-969
TOTAL Groundwater	26,882	24,207	-2,675

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **-\$141K; -4.3%** [Last Month: -\$192K; -6.2%]

Cause: Miscellaneous assessment work rescheduled.

Resolution: None required.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

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

PBS-ER08 – Groundwater Management

Schedule Variance = **-\$1565K; -9.7%** [Last Month: -\$1521K; -10.6%]

Cause: ISRM material arriving later than original plan.

Resolution: None required; material delivery will support ISRM injection work.

Cause: Groundwater Monitoring sampling collection and analysis (PNNL) fell behind schedule in October/November, due to resolution of labor contractual issue, and has not yet recovered.

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

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

Resolution: Waste regeneration shipments have been scheduled through FH.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **-\$969; -13.0%** [Last Month: -\$1188K; -18.2%]

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

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

Cause: Resource availability has delayed Characterization of Systems development activity.

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

• **Cost:**

Groundwater Vadose Zone Integration	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	3,101	2,114	987
ER08 Groundwater Management	14,606	14,047	559
VZ01 Groundwater/Vadose Zone	6,500	6,088	412
TOTAL Groundwater	24,207	22,249	1,958

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **+\$987K; +31.8%** [Last Month: +\$830K; +28.7%]

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

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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

PBS-ER08 – Groundwater Management

Cost Variance = +\$559K; +3.8% [Last Month: +\$438K; +3.4%]

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

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

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = +\$412K; +6.3% [Last Month: +\$287K; +5.4%]

Cause: *Efficiencies in Science and Technology labor and characterization of systems performed with fewer resources.*

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

REGULATORY ISSUES: GW/VZ

Monitoring Wells: *Tritium investigation is being conducted near the 618-11 Burial Ground.*

Status: *Results of the Phase I characterization have been reviewed and compiled in a PNNL report. Draft A of the DQO Report for Phase II efforts will be reviewed by the regulators. A work document for field implementation is being prepared.*



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

Status: *Project personnel met with EPA (Doug Sherwood), to discuss the need to restart ZP-2 pending completion of the cost estimate to perform the Partitioning Interwell Tracer Test (PITT) test in lieu of restarting ZP-2 this fiscal year. Decision has been made to proceed with the PITT test. PITT test estimate will be completed by the end of July, with management review to be completed by mid August.*



200 Area RI/FS: *Approximately 800 soil contaminated sites (200 Area) grouped into 23 process-based operable units are to be characterized by 2008 and remediated by 2018. Currently, an out-year funding allowance of \$2M to \$3M has been added to the GW/VZ Project for 200 Area characterization work, but this is not sufficient to meet TPA milestones. Long-term, RL must decide a budgetary position toward assessment and cleanup of the 200 Area liquid waste sites. The regulator position is to submit TPA change packages for each operable unit work plan for enforceability in completing the RI through ROD based on existing TPA milestones.*

Status: *DOE has prepared a draft TPA change package for the 200-CW-1 operable unit containing RI/FS milestones for FY 2000 only. DOE is also working on how to address the need for TPA change package proposals for the other work plans that require a proposed TPA change package in order to gain necessary regulatory approval of the work plan. In addition, DOE is currently working on ways to revise the existing long-term strategy for prioritizing the 200 Area assessment and remediation activities in conjunction with other site cleanup decisions. RL management plans to meet with regulators to discuss the approach to this work.*



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

Status: *TPA Milestone M-13-25 requires that the Draft A 200-PW-2 work plan be submitted to the regulators by December 31. RL has directed BHI to resume development of the work plan.*



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2000

REGULATORY ISSUES continued: GW/VZ

M-24-00L - CY00 RCRA Compliance Well Installation: The number and location of wells have been determined. However, the interim milestones are in dispute.

Green

Status: The change request establishing TPA interim milestones is still in dispute resolution (dispute resolution was extended to June 30). Ecology's TPA change request has been received and is in final approval process. A BCP has been submitted based on a FY 2000 and a CY 2000 target date.

Waste Handling: On May 31, a Notice of Correction (NOC) letter was received by RL from Ecology. This NOC detailed the violations and corrections regarding the shipments of mixed solid waste that contacted groundwater that contains listed waste (FY 2001 and FY 2003), and the drums of M-24 drilling waste at the Biosite. On June 15, a letter was received from EPA identifying violations of CERCLA requirements with respect to waste management practices at 100-F, 100-K, 100-BC, 200-ZP-1, 300-FF-2 operable units. This letter also served as notice that the moratorium on disposal of investigation derived waste (IDW) into ERDF is no longer in place. EPA requires that all IDW shipments to ERDF be approved by EPA ERDF project manager until further notice.

Green

Status: Corrective actions identified in the letters are being addressed. Extensions have been granted by the regulators to allow time for resolution and response to identified items. Additional meetings have been held to move toward closure.

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: GW/VZ

None identified at this time.

Surveillance/Maintenance and Transition Project (SM&T)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION**

JULY 2000

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end May.
All other data as of June 22, 2000 (unless otherwise noted).**

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

ACCOMPLISHMENTS: SM&T

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

- Completion of the legacy waste removal at both KE and KW Reactors. The legacy waste removal scope was verified to be satisfactorily completed by RL field inspection of the work sites and review of work packages and shipping documents.
- Commencement of legacy waste removal at H Reactor.
- Completion of the readiness assessment for the REDOX Facility plutonium loadout hood work. Initiation of field work activities including decontamination of the backside of the hood and sampler box isolation.
- Completion of the acceptance test for the 100 N Area water plant.
- Completion of the work packages for KE/KW acid tank stabilization work activities.
- Completion of sealing 39 out of 84 passive vents source elimination at the RARA sites.

Canyon Disposition Initiative (CDI): Several activities continued in support of the CDI, including movement of equipment off the cell cover blocks, lifting the cell blocks, videotaping the cell contents, and utilizing a gamma camera to take radiological profiles of the cells. 19 of the planned 26 cells have been accessed at the U Plant (221-U Building) canyon facility during FY 2000. Railroad tunnel door repair activities were completed.

Training was completed on the Brokk™ coring machine. This equipment will take concrete core samples inside the CDI access cells, and will be remotely operated by the canyon crane.

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.

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

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

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

PERFORMANCE OBJECTIVES: SM&T

Outcome	Performance Indicator	Status	
Restore the River Corridor for Multiple Uses	<i>Deactivation and preparation for decommission.</i>	<i>Baseline work is projected to be completed per PI requirements.</i>	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
Transition Central Plateau to Support Long-Term Waste Management	<i>Perform S&M/risk reduction on inactive facilities to eliminate/stabilize environmental, human health hazards until D&D; Perform CDI activities.</i>	<i>CDI baseline work projected to be completed per PI requirements. DOE-Waste Management funding shortfalls will require scope adjustment.</i>	

PERFORMANCE MEASURES: SM&T

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: SM&T

FY00 SM&T "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)	
<i>Deactivate 183-N Water Treatment Plant (Phase I) (BCP-20111)</i>	\$131.0K	\$131.0K	<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
<i>Deactivate 183-N Water Treatment Plant (Phase II) (BCP-20175)</i>	\$159.0K	\$159.0K	
Asbestos Abatement & Repairs (100, 200, & 300 Areas)	\$470.0K	\$64.2K	
Complete the CDI Technical Work to Support the Phase III Feasibility Study	\$490.0K	\$0.0K	
S/Total SM&T -Facility Transition Stretch Goals:	\$1,250.0K	\$354.2K	

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

• **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER05 Surveillance & Maintenance	9,232	8,818	-414
ER07 Long-Term Surveillance & Maintenance	20	30	10
TOTAL SM&T	9,252	8,848	-404

Green

PBS-ER05 – Surveillance and Maintenance

Schedule Variance = **-\$414K; -4.5%** [Last Month: -\$590K; -7.1%]

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

Resolution: Skid was delivered May 18, and installation continues; schedule variance continues to recover.

Cause: Weather delays in herbicide application.

Resolution: None required.

Cause: Subcontract for Authorization Basis development deferred due to change in implementation strategy (three subcontractors rather than one).

Resolution: None; schedule recoverable due to three suppliers.

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

Schedule Variance = N/A

• **Cost:**

Surveillance/Maintenance & Transition Project	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER05 Surveillance & Maintenance	8,818	9,231	-413
ER07 Long-Term Surveillance & Maintenance	30	28	2
TOTAL SM&T	8,848	9,259	-411

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **-\$413K; -4.7%** [Last Month: -\$257K; -3.4%]

Cause: KE/KW legacy waste removal cost overrun; estimate did not account for difficulties encountered.

Resolution: Overrun reflected in EAC.

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

Resolution: Project monitoring costs. Trends identified.

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PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: SM&T	
<p><i>Cause: Underruns on B Plant S&M and RARA stabilization from work practice efficiencies.</i></p> <p><i>Resolution: Underrun will be utilized for other ER work.</i></p> <p>PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$47K for FY 2000) <i>Cost Variance = N/A</i></p>	
REGULATORY ISSUES: SM&T	
<i>None identified at this time.</i>	
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): SM&T	
<i>None identified at this time.</i>	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T	
<p><i>B Plant/PUREX Roof Funding: Ensure funding is provided by Facility Transition Project per MOUs to support roof repair commitments for B Plant and PUREX. Facilities were transitioned to ER with the commitment to fund these repairs from the releasing project.</i></p> <p><i>Status: Funding for roof repairs have not been included within the current above-the-line Integrated Priority List targets. The roof leaks based on last quarterly surveillance.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Yellow</div>
<p><i>B Plant Stack Ventilation: Problems with stack ventilation, retired filters, and other issues documented in letter, M.C. Hughes to R. Gerton, September 28, 1999, "Remaining Issues for the Transition of the B Plant Facility from EM-60 to EM-40".</i></p> <p><i>Status: Facility transferred to ERC September 30, 1999. MOA with open items assigned cost/schedule responsibility received September 30, 1999. Original MOA schedule not met. Fluor Hanford (FH) repaired the ductwork on May 2 and performed a leak test on the repaired areas. BHI issued a letter on May 3 to FH request ing additional information and testing be performed on the exhaust fan assembly in order to meet our minimum requirements to assure the repaired assembly will continue to operate correctly. FH has responded to the letter, and RL concurrence on acceptability is planned for the end of June.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>
<p><i>Hexone Tanks: A Notice of Correction was received from Ecology on May 26. Ecology stated that the hexone tanks were inadequately inspected, and the waste designator on the tanks was not stated properly per Washington Administrative Code (WAC) 173-303, Dangerous Waste Regulations.</i></p> <p><i>Status: A BCP has been submitted to perform DQOs on the hexone tanks. Tank inspection frequency was changed to daily on the nitrogen purge, and to monthly on the purge system integrity. A response letter is being drafted for submittal to Ecology by June 23.</i></p>	<div style="border: 3px double black; padding: 5px; width: fit-content; margin: 0 auto;">Green</div>
INTEGRATION ACTIVITIES: SM&T	
<i>None identified at this time.</i>	