Richland Operations Office

Environmental Restoration

Environmental Management Performance Report

August 2000

Focused on Progress...
Focused on Outcomes!

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0003099.3

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
AUGUST 2000

TABLE OF CONTENTS

ENVIRONMENTAL RESTORATION 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 June 30. Accomplishments, Issues and Integration items are current as of July 27, 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

SECTION A – EXECUTIVE SUMMARY

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).**

NOTABLE ACCOMPLISHMENTS:

River Corridor:

On June 7, the first shipment of waste was placed into Cell #4 at the Environmental Restoration Disposal Facility (ERDF). Construction of Cells #3 and #4 was completed in December 1999 which doubled the capacity of the disposal facility. Also, the first K Basin waste shipment from the Spent Nuclear Fuel Project was transported to the ERDF on June 26.

All planned fiscal year 2000 (FY00) pipeline remediation was completed in the 100 D Area on June 14, and backfilling activities were initiated. Closure verification package sampling began on the 100 H Area pipeline overburden stockpiles.

Two off-the-shelf technologies (geo-probe and sodium iodide detector) were deployed at the 100 F Area ash pit to perform in situ characterization that resulted in 50% reduction in waste site volume. Preliminary cost savings is estimated at $5M.

Remediation activities were initiated in the 100 N Area on July 21, meeting the requirement of the Hanford Site Resource Conservation and Recovery Act (RCRA) permit.

Public comment period was completed for the 100 Area Burial Ground Focused Feasibility Study and Proposed Plan. Comments will be incorporated into the documents. The 100 Area Burial Ground Record of Decision is scheduled for completion by September 30.

Excavation was completed at Landfills 1A and 1B located in the 300 Area during June. In addition, the lead-contaminated soil that had been stockpiled in Landfill 1D was shipped to ERDF in accordance with the recently approved variance.

Green

On June 29, Revision 0 of the 300-FF-2 Operable Unit Focused Feasibility Study and Proposed Plan were transmitted to the regulators. Public comment period was initiated on July 3.

The F Reactor Hazards Assessment and Characterization Report was transmitted to the U.S. Environmental Protection Agency (EPA) on June 19. This satisfies completion of Tri-Party Agreement Target Milestone M-93-08-T1 that was due on June 30.

Demolition of the DR Reactor fuel storage basin (above-grade and below-grade), transfer bay, and monitor room was completed the last week in June.

The draft B Reactor Safe Storage Phase II Feasibility Study was transmitted to the U.S. Department of Energy (DOE), Richland Operations Office (RL) on June 27. Rough-order-of-magnitude estimates for B Reactor hazards mitigation (outside of the feasibility study scope) were also transmitted. RL transmitted the documents to the EPA on July 10. Submission of these documents was made to meet the requirements of Tri-Party Agreement Milestone M-93-05.

The Draft B Engineering Evaluation/Cost Analysis (EE/CA) documents for D and H Reactor Interim Safe Storage (ISS) were submitted for RL and regulator review. The H Reactor Auditable Safety Analysis (ASA) was transmitted to RL on June 30. The D Reactor ASA comment resolution was also completed in June.

Removal of all 70 plastic polymethyl methacrylate (PMMA) panels from the process hood east face was completed ahead of schedule in the 233-S Plutonium Concentration Facility during June. The first fixative application was also completed in the process hood.

NOTABLE ACCOMPLISHMENTS continued:

The FY01 - 03 Detailed Work Plan (DWP) kickoff meeting was held on June 5 with ERC, RL, regulator, and stakeholder representatives in attendance.

Central Plateau:

The Groundwater/Vadose (GW/VZ) Integration Project participated in the Oregon Hanford Waste Board meetings conducted during June and assisted DOE, Headquarters (HQ) in the transmittal and distribution of the Semi-Annual Groundwater/Vadose Zone Report to members of the Northwest Congressional Delegation.

The construction contract for the In Situ Redox Manipulation (ISRM) evaporation pond was awarded, and field work commenced in June. The first chemical injection is planned for late July.

The draft waste management plan that addresses the tritium investigation of the 618-11 burial ground was approved by the regulators in mid July. A waste pad is also being prepared in the 300 Area for investigative derived waste.

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

All field work and final report associated with the reduction oxidation (REDOX) miscellaneous contaminated area stabilization were completed.

Construction and startup were completed for the 100 N Area water plant.

The KE/KW acid tank sample work activities were completed. The tanks were sampled and found that they can be treated as noncontaminated waste.

All 84 passive vents were sealed at the Radiation Area Remedial Action (RARA) sites approximately three weeks ahead of schedule.

In June, six cells were accessed at the U Plant (221-U Building) canyon facility in support of the Canyon Disposition Initiative (CDI). Only one cell remains to be accessed. A total of 38 cells will have been accessed upon project completion.

Green

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Green

Twelve Tri-Party Agreement milestones have been completed through June, all ahead of schedule. One milestone was completed behind schedule.

Total Tri-Party Agreement Milestones Due in FY00	16
Total Planned Through June	13
Total Completed Through June	12

Remaining Tri-Party Agreement Milestones to be Completed in FY00	4
Forecast Ahead of Schedule	1
Forecast On Schedule	2
Forecast Behind Schedule	1*

Yellow

*The B Reactor documents were submitted to DOE-RL (PM) on June 27 and delivered to the DOE-RL Office of Regulatory Liaison on June 28 for concurrence and submittal through the remainder of the signature cycle. The document was received by the regulators on July 10, ten days later than the milestone completion date of June 30 (TPA Milestone M-93-05).

FY00 Management Commitment Milestones:

Green

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.

MAJOR COMMITMENTS continued:

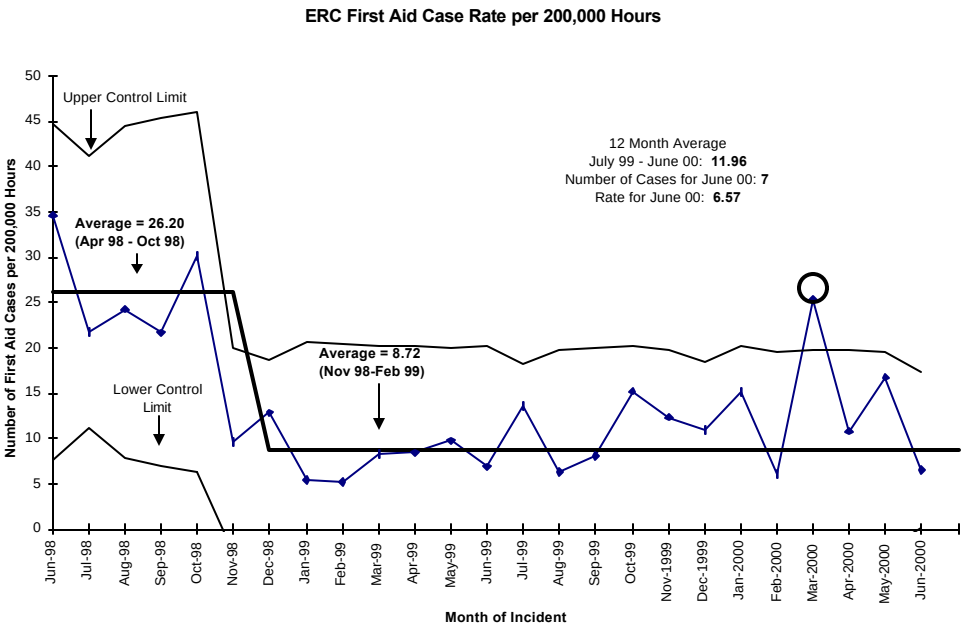
EM Corporate Performance Measures:

Green

	DWP FY00	FY00 Mgm Commitments	Current Baseline	Forecast for FY00	Completed YTD
Waste Site Assessments	121	167	168	168	168
Waste Site Cleanups	24	41	42	42	20
Technology Deployments	0	4	4	4	1

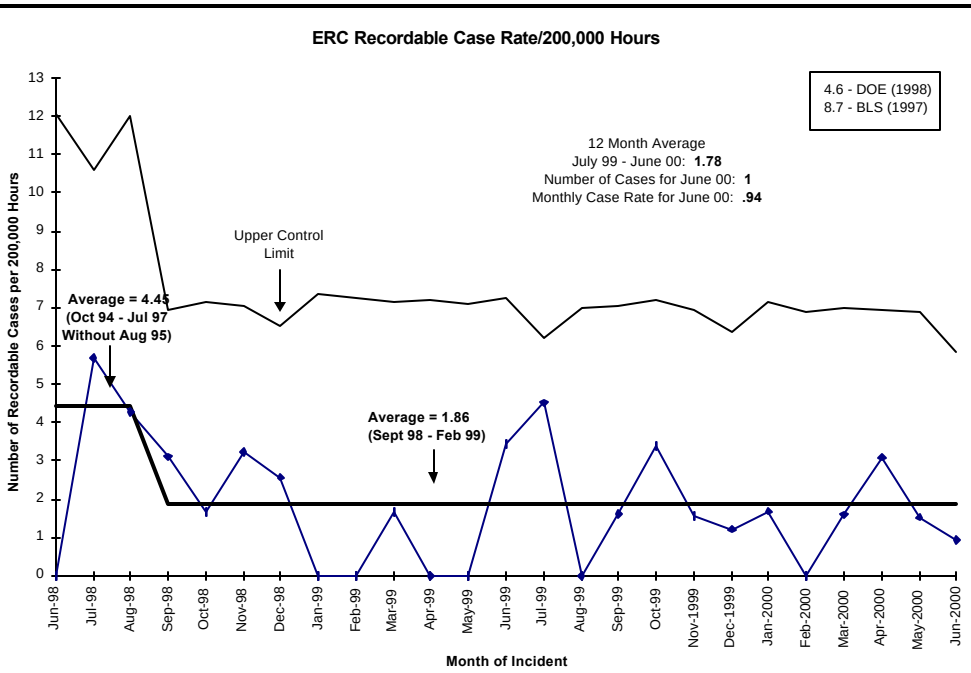
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):

Green



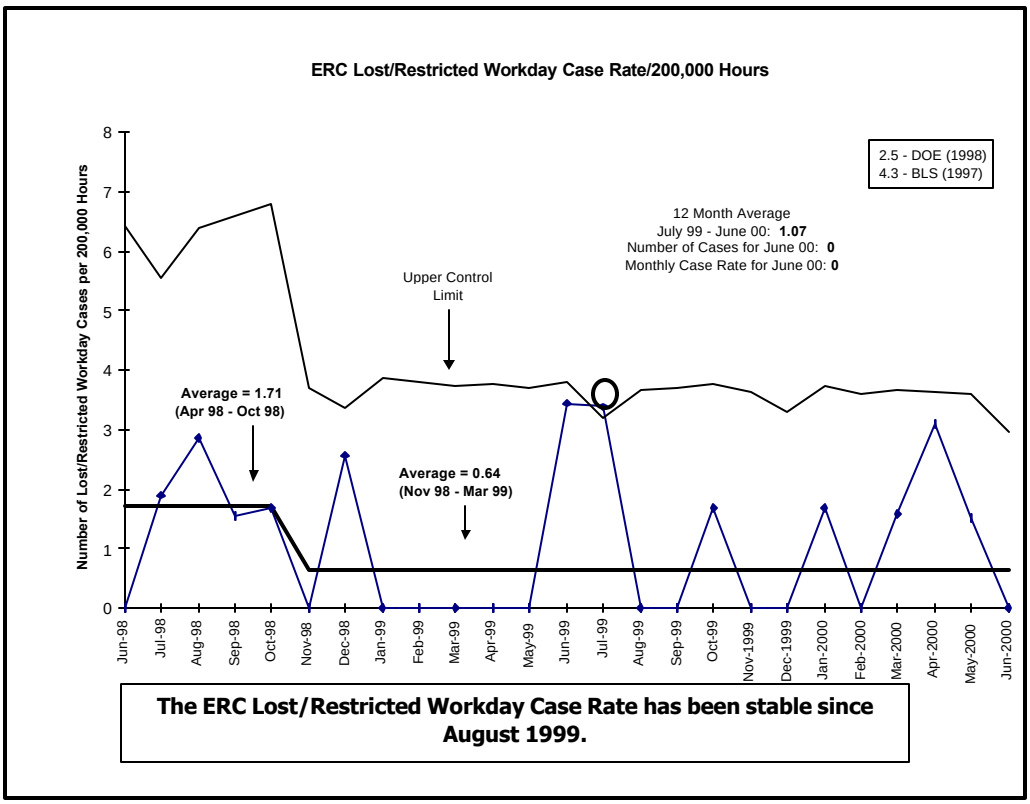
The ERC First Aid Case Rate dropped below the baseline average in June.

Green



The ERC Recordable Case Rate for June is again below the baseline average. Data has been stable since September 1998.

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



Green

Safety:

	YTD	Current Month (May)	Current Month Comments
First Aid	80	7	(1) puncture, (2) sprains/strains, (1) abrasion, (1) irritation, (2) bite/sting
Restricted Workday Case	5	0	N/A
Lost Workday Case	1	0	N/A
OSHA Recordable	10	1	(1) irritation to eyes

Green

- The ERC, as of June 22, 2000, reports 1,238,100 hours since the last lost workday incident.
-The last lost workday began October 8, 1999.

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

ISMS:
DOE EM Performance Agreement: (ISM) - September 30, 2000

Develop and implement Integrated Safety Management

Green

Status:

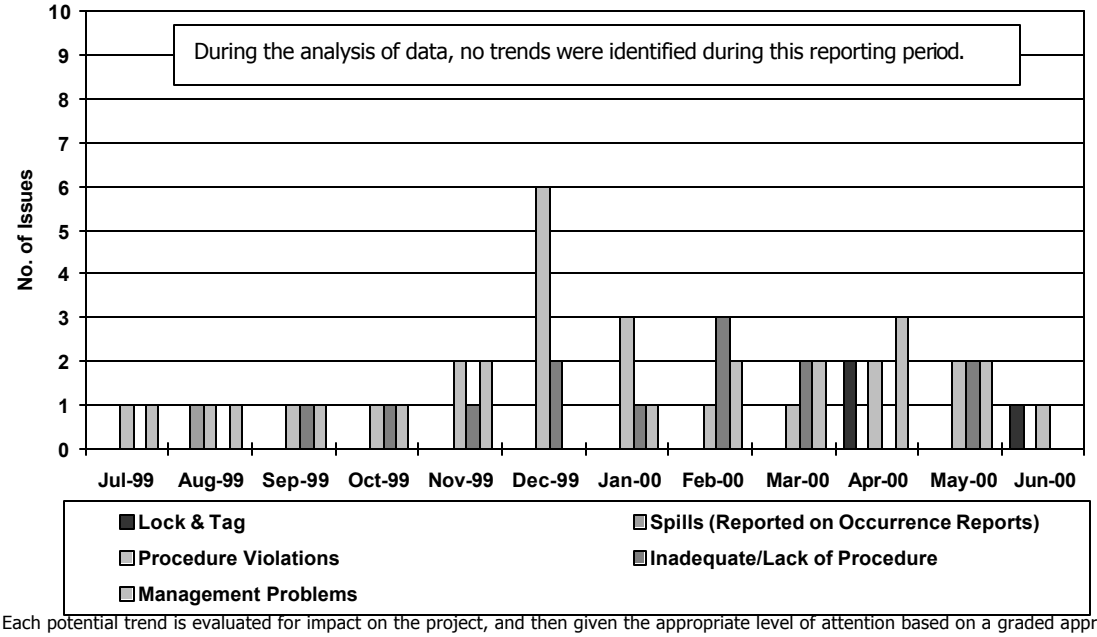
- Continuing our effort on the closure of the multi-discipline action plan. It is scheduled for completion by September 30, 2000. All other actions have been completed.
- The revised Integrated Environment, Safety, and Health Management System Description Document (BHI-01199, Rev. 2) has been distributed to the entire ERC Management Team.
- Continuous improvement and employee awareness of ISMS is ongoing through the ISMS Question of the Day Program and the distribution of ISMS Awareness Badges (over 1000 distributed) and "ISMS=The Way We Do Work" lanyards (over 800 distributed to date and 300 on back order) to ERC employees.
- The integration of the ISMS program into the Environment, Safety, and Health Handbook has been completed and approved. This handbook is currently in printing and will be issued to all ERC employees this summer.
- 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.
- At the request of DOE-RL management, BHI was requested to support DOE in resolving their ISMS Opportunities for Improvement (OFIs), develop an action plan to address the OFIs, identify key personnel, develop a schedule for completion, and oversee the implementation of the plan throughout RL's structure.

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

Conduct of Ops:

ERC-CATS Trend Data 7/1/99 through 6/30/00

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



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

June Conduct of Ops Issues:

Lock and Tag Issues:

Condition Description: The facility rep issued a finding which discussed a lack of communication of hazards from the workers to management associated with the 221-U Canyon Crane.

Green

Corrective Action Plan: The above condition was included as a finding in a DOE FR surveillance report (S-00-OOD-ERC-001). As of July 25, BHI is working with RL to verify the facts of the identified conditions prior to determining corrective actions. BHI has requested (and DOE has approved) a 10-day extension in responding formally to this surveillance. The new response date is now August 7.

Procedure Violations:

Condition Description: A Senior Radiological Control Technician (RCT) in training entered a radiological area/contamination area (RA/CA) to obtain an air sample. The entry was conducted without the appropriate Personal Protective Equipment (PPE) or dosimetry. Although wearing shoe covers and gloves, the appropriate PPE for entry at this time (required by RWP) was one full set of anti-contamination clothing, minus a hood. The appropriate dosimetry for entry into this project includes a PD3 (alarming dosimetry) in addition to a Thermoluminescent dosimeter (TLD). The worker did not have the supplementary PD3 when entering the RA/CA. Entry into the RA/CA as described above is a violation of the Radiological Work Permit (RWP), which is a procedure violation. There was no personal contamination from this incident.

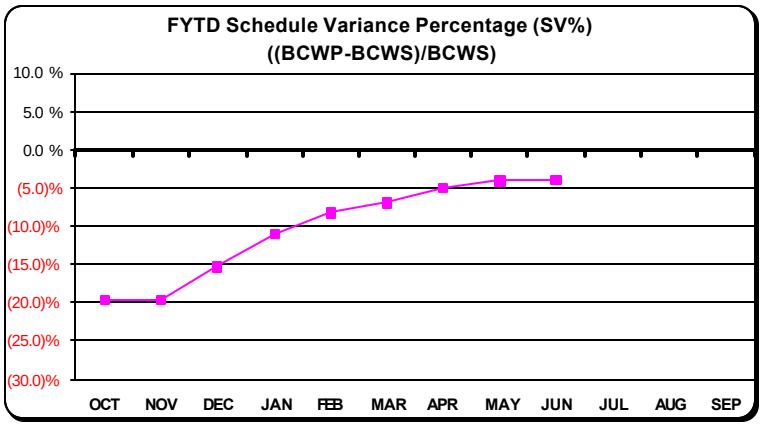
Green

Corrective Action Plan: Functional organization/projects are in process of formulating corrective action.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:
None identified at this time.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
AUGUST 2000

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):

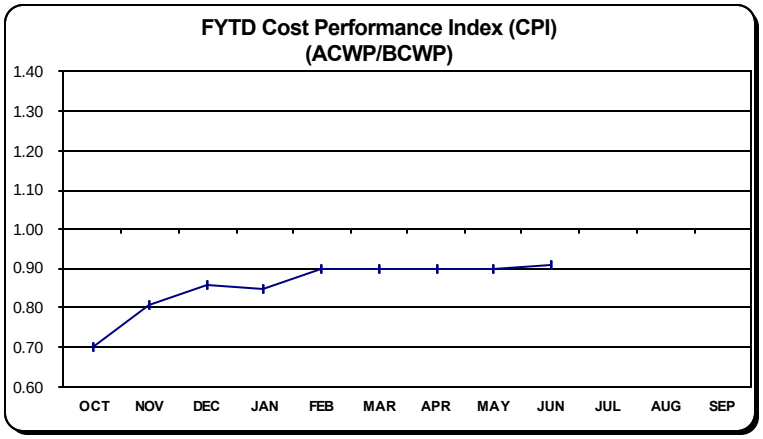


Green

Desired performance is better than –10%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,445	15,190	12,158	12,771	14,032	11,420	17,541
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497			
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	76,969	92,159	104,317	117,089	131,120	142,540	160,081
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516			
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,690)	(4,690)	(4,573)			
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%	-4.1%	-3.9%			

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



Green

Desired performance is 1.0 or less.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC w/ Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	12,199	14,037	11,240	12,477				
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497				
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295				
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516				
CV	3,521	3,574	4,240	6,811	5,978	7,131	8,892	10,201	10,221				
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90	0.90	0.91				
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295	119,250	132,068	146,979	151,300
Yr End Budget Variance	1,967	3,638	4,793	5,074	5,521	5,482	6,206	7,693	8,781				

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

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

FY 2000 PERFORMANCE
FYTD JUNE 2000
($K)

	DWP BCWS	CURRENT BCWS	FYTD BCWS	FYTD BCWP	FYTD ACWP	YTD SCHEDULE VARIANCE $	YTD SCHEDULE VARIANCE %	YTD COST VARIANCE $	YTD COST VARIANCE %	*CPI	FY00 EAC
ER01 100 Area R/A	27,364	29,804	21,116	21,275	17,555	159	0.8%	3,720	17.5%	0.83	25,953
ER03 300 Area R/A	3,157	7,031	6,152	5,938	4,451	-214	-3.5%	1,487	25.0%	0.75	5,916
ER04 ER Waste Disposal	16,146	20,840	15,867	15,901	14,045	34	0.2%	1,856	11.7%	0.88	19,268
RA-Subtotal	**46,667**	**57,675**	**43,135**	**43,114**	**36,051**	**-21**	**0.0%**	**7,063**	**16.4%**	**0.84**	**51,137**
ER02 200 Area R/A	3,534	3,661	3,353	3,235	2,271	-118	-3.5%	964	29.8%	0.70	2,677
ER08 GW Management	19,394	24,320	17,978	16,518	15,833	-1,460	-8.1%	685	4.1%	0.96	24,004
VZ01 GW/VZ	11,325	11,376	8,091	7,641	7,289	-450	-5.6%	352	4.6%	0.95	11,166
GW/VZ-Subtotal	**34,253**	**39,357**	**29,422**	**27,394**	**25,393**	**-2,028**	**-6.9%**	**2,001**	**7.3%**	**0.93**	**37,847**
ER06 D&D	8,446	16,947	11,854	11,734	11,223	-120	-1.0%	511	4.4%	0.96	16,735
DD-Subtotal	**8,446**	**16,947**	**11,854**	**11,734**	**11,223**	**-120**	**-1.0%**	**511**	**4.4%**	**0.96**	**16,735**
ER05 S&M	12,291	13,755	10,729	10,133	10,291	-596	-5.6%	-158	-1.6%	1.02	13,894
ER07 Long-Term S&M	47	47	27	43	29	16	59.3%	14	32.6%	0.67	62
SM-Subtotal	**12,338**	**13,802**	**10,756**	**10,176**	**10,320**	**-580**	**-5.4%**	**-144**	**-1.4%**	**1.01**	**13,956**
ER10 ERC PM&S	27,597	26,071	16,960	16,736	15,944	-224	-1.3%	792	4.7%	0.95	25,398
ER10 RL PM&S	5,800	6,228	4,962	3,363	3,363	-1,599	-32.2%	0	0.0%	1.00	6,228
PM-Subtotal	**33,397**	**32,299**	**21,922**	**20,099**	**19,307**	**-1,823**	**-8.3%**	**792**	**3.9%**	**0.96**	**31,626**
GRAND TOTAL	**135,101**	**160,080**	**117,089**	**112,517**	**102,294**	**-4,572**	**-3.9%**	**10,223**	**9.1%**	**0.91**	**151,301**

Green

*CPI = ACWP/BCWP

Cost/Schedule Status:

Cost Vari ance

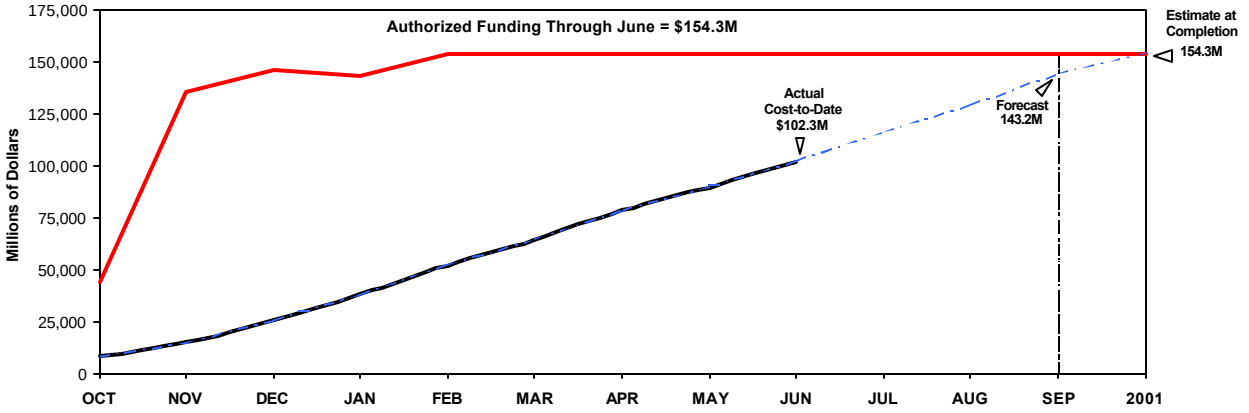
At the end of June, the ER Project had performed $112.5M worth of work, at a cost of $102.3M. This results in a favorable cost variance of $10.2M (9.1%). The positive cost variance is attributed to subcontract savings due to asbestos abatement changes and sampling efficiencies, site excavation/backfill savings, FR savings in site preparation and staff reductions, borehole drilling and test pit trenching costs less than planned (due to efficiencies), early completion of ISRM drilling, fewer well maintenance activities than planned, and FY 1999 year-end accrual reversals.

Schedule Variance

The ER Project is $4.6M (-3.9%) behind schedule for June. The negative schedule variance is attributed to delayed GW/VZ Integration Project S&T activities and formation of the system, characterization core team, delayed groundwater well maintenance (resin regeneration) and monitoring, ISRM material costs budgeted in early phase of project, deferral of the S&M authorization basis development contract due to a revised implementation strategy (three contractors, rather than one), CDI canyon crane breakdown, and late billings for site-wide assessments.

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

ER Project Summary
FY2000 Funding vs. Forecast Expenditures (EAC)



				OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2001	
	AUTHORIZED FUNDING			43,883	135,226	146,226	143,226	153,806	153,806	153,806	153,806	154,256	154,256	154,256	154,256	Schedule Carryover	EAC TOTAL
	APPROVED SCOPE																
1	**Actual Cost**			8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295					
2	**Current Monthly EACs**			8,190	6,786	10,729	12,465	14,171	12,199	14,037	11,241	12,477	14,165	12,837	14,900		
3	**Cumulative EAC**			8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295	116,460	129,297	144,197	7,104	151,301
	JULY FY2000 APPROVED BCP'S																
4	ER01	RA	BCP-20252	Schedule Impacts Due to June 2000 Wildfire									0	0	(103)	0	(103)
5	ER01	RA	BCP-20243	Additional Material 1607-H-4, Additional Plumes 100DR, Defer Excavating 116-F-14									35	0	0	0	35
6	ER03	RA	BCP-20240	300-FF-2 Phase I of Kd Engineering Study									21	22	10	0	53
7	ER03/04	RA	BCP-20233	Reduction of Quantities @ Landfill 1A, Additional @ 1B, Pond & 1D									(273)	0	0	0	(273)
8	ER05	SM	BCP-20249	H Reactor Legacy Waste Removal									0	0	58	0	58
9	ER05	SM	BCP-20250	B Reactor Process/Hazards Mitigation									0	8	12	493	513
10	ER06	DD	BCP-20234	233-S Accelerate Work Packages Prep, PMA Panel Removal From FY2001									37	44	54	0	135
11	ER08/10	PM/GW	BCP-20185	Columbia River Corridor Well Decommissioning (Phase 1B), Award Fee									0	12	14	1,452	1,478
12	ER08	GW	BCP-20246	Deepen Elected Vadose Well in 200-PW-1 (Prep for PITT Test)									10	30	47	327	414
13	ER08	GW	BCP-20248	Columbia River Corridor (Phase 1A) Well Decommissioning									0	28	76	0	104
14	ER10	PM	BCP 20219	Radiological Counting Facility Equipment Purchases									0	0	417	0	417
15	ER10	PM	BCP-20226	10CFR-835 RadCon Program Implementation									0	18	21	0	39
16	ER10	PM	BCP-20228	VPP Onsite Evaluator Training & Contractor VPP Application Assessment									8	7	9	0	24
17	ER10	PM	FCP-20253	Program Mgmt. & Support - RL (Scope Reduction)									0	(400)	0	0	(400)
18	ER10	PM	BCP-20235	FY 1994 Offsite Re-Bill									0	0	88	0	88
19	**S/T Approved Scope Changes**												**(162)**	**(231)**	**703**	**2,272**	2,582
	Pending BCPs																
20	ALL		Provisional Billing Rate Adjustment Rev. 2										0	(2,000)	(200)	(100)	(2,300)
21	ER03	RA	BCP-20264	Final Quantities for S. Process Pond									0	0	(178)	0	(178)
22	ER03/04/10		BCP-20173	Remediation 600-23, J.A. Jones at 300-FF-2, ERDF Costs, Performance Fee									0	20	20	1,716	1,756
23	ER05	SM	BCP-20262	Repair Broken Crane Wheel on Canyon Crane									0	94	0	0	94
24	ER05	SM	BCP-20261	PUREX Sample Line Repair									0	11	14	0	25
25	ER05	SM	BCP-20263	221-U Roof Repairs									0	65	83	50	198
26	ER06	DD	BCP-20247	Prepare DQO/SAP for Waste Designation for D & H Reactors									0	44	0	0	44
27	ER06	DD	233-S Range Fire (6/2000) Recovery Schedule										0	16	20	0	36
28	ER08	GW	BCP-20251	GW Management Scope Deletions									0	(341)	0	0	(341)
29	ER10	PM	BCP-20257	FY 1996 Final Site Rebill for ERC									(157)	0	0	0	(157)
30	ER10	PM	Legal Adjustments										0	0	1,196	0	1,196
31	**Subtotal July FY2000 Approved BCP's + Pending BCP's**												**(319)**	**(2,322)**	**1,658**	**3,938**	**2,955**
32	**Current Monthly EAC + July FY2000 Approved BCP's & Pending BCP's**			**8,190**	**6,786**	**10,729**	**12,465**	**14,171**	**12,199**	**14,037**	**11,241**	**12,477**	**13,846**	**10,515**	**16,558**	**3,938**	**-**
33	**Cumulative EAC + July FY2000 Approved BCP's & Pending BCP's**			**8,190**	**14,976**	**25,705**	**38,170**	**52,341**	**64,540**	**78,577**	**89,818**	**102,295**	**116,141**	**126,656**	**143,214**	**11,042**	**154,256**

PERFORMANCE OBJECTIVES:

See following individual Project sections.

KEY INTEGRATION ACTIVITIES:

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

Status: The BHI involvement has been completed. The Task Order ended 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 assisted in the final write-up of the FH deliverable to RL. FH has delivered the final product to DOE-RL and presented the final product to Site Management Board on July 17. Positive comments about the product were made and verbal recognition was given to the FH, BHI and PNNL integrated team.

100/600 Area River Corridor Accelerated Restoration Plan: BHI to develop an accelerated restoration plan per RL request. **Green**

Status: This study covers scope supporting an accelerated restoration and completion of cleanup scope along the river in support of making the area along the river available for other uses. Preliminary presentation was made to the SMB.

RL WBS/PBS Restructuring: BHI is supporting RL-lead activities to restructure the RL WBS in support of site outcomes, revising the FY 2002 budget submitted and providing a supporting basis for future contracting strategies. **Green**

Status: Participating in coordination and strategy sessions with DOE and other contractor personnel; preparing data and studies supporting RL's schedule to have a revised WBS/PBS structure, revise the FY 2002 budget submittal and update the site lifecycle baseline by December 15.

DOE and Bechtel Staff Recognized for Pollution Prevention Efforts: In late July, U.S. Secretary of Energy Bill Richardson recognized several Department of Energy and Bechtel Hanford, Inc. employees for their waste minimization and pollution prevention accomplishments at Hanford. **Green**

Status: The DOE recognition acknowledged BHI's waste minimization and pollution prevention activities over the last several years. Recent accomplishments at Hanford included reducing the amount of waste by more than 300,000 tons and avoiding costs of nearly $50M in 1999.

BHI successfully implemented the largest source reduction project in the DOE complex in 1999. It involved extensive characterization of 417 waste sites. As a result, 129 sites were reclassified, enabling BHI to reduce the amount of low-level radioactive waste requiring treatment by nearly 65,000 cubic yards and avoiding costs of more then $36M.

This single effort reduced more waste than all of the combined source reduction projects implemented throughout the DOE complex in 1998. Source reduction projects reduce pollution or waste generated at this source.

Spent Nuclear Fuel (SNF): The first K Basin waste shipment from the Spent Nuclear Fuel Project was transported to the ERDF on June 26. **Green**

UPCOMING PLANNED KEY EVENTS:

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

August 2000

Focused on Progress...
Focused on Outcomes!

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

e0003099.2

Remedial Action and Waste Disposal Project (RAWD)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).**

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations: On June 7, the first shipment of waste was placed into Cell #4 at ERDF. Construction of Cells #3 and #4 was completed in December 1999 which doubled the capacity of the disposal facility.

The Management of Change (MOC) for ERDF Safety Analysis was approved. The MOC addresses the receipt of wastes from the 100-N cribs remediation and the Spent Nuclear Fuel (SNF) K-Basin Project. The hazard classification for ERDF will remain "radiological". The ERDF received the first waste shipment from the SNF Project on June 26.

ERDF operations were curtailed from the morning of June 28 through swing shift of June 30 due to the Hanford Site range fire. Some vegetation within the ERDF fence was burned, but no other damage occurred. Operations resumed without incident on July 3.

During June, shipments totaling 43,533 metric tons (47,988 tons) of contaminated waste were transported to the ERDF. 459,447 metric tons (506,456 tons) have been received in FY 2000 (this is 1% more than planned). To date, 2,186,423 metric tons (2,410,131 tons) of material have been received and placed in the disposal facility (tonnage on schedule as planned).

100 B/C Area Remedi ation: Procurement activities are progressing for the B/C pipeline remediation work. A start date for remedial action will be determined during the FY 2001 DWP process development currently underway.

100 D Area Remediation: FY 2000 pipeline baseline workscope was completed on June 14. Excavation of the approved plume quantities for 116-D-1B and 116-D-1A waste sites was also completed. A BCP was approved to excavate additional contaminated material from the south pipeline trenches. The power pole interfering with the excavation of additional contaminated materials west of 116-D-7 was relocated on June 19. This plume excavation began late June. Backfilling continued at the 116-DR-1 and 116-DR-2 waste sites. Backfilling activities were also initiated at the east/west spurs of the north pipelines and at the 1607-D2 septic tank/associated pipelines remediation.

100 F Area Remediation: Construction of the 100-FR-1 Operable Unit queue was completed. Access control setup activities were completed, and a self-assessment confirmation readiness was completed. Grubbing and clearing of the pipelines between the retention basin and the river was initiated.

100 H Area Remediation: Closure verification package sampling began on the H Area pipeline overburden stockpiles. Closure verification package samples were also collected in the 100-H-5 sludge burial pit shallow zone and 116-H-1 disposal trench deep zone.

Overburden removal was completed on the last two sections of 1.5-meter (60-inch) pipe that pass under H A venue. The concrete encasements on both lines were demolished and debris removed. The asbestos was removed on the northern section of pipe, and then the pipe section was cut into 3-meter (10-foot) lengths.

Green

ACCOMPLISHMENTS continued: RAWD

100 N Area Remediation: Soil remediation at the 100 N Area began on schedule, to meet the requirements of the Hanford Site RCRA permit. Mobilization and setup activities are progressing. Grouting of the 116-N-3 crib for as low as reasonably achievable (ALARA) purposes was completed June 23. A Management of Change (MOC) document to revise the 116-N-3 Auditable Safety Analysis (ASA) was approved on June 16. A Readiness Assessment Board meeting was held in early July.

On June 6, Ecology approved the 100-NR-1 Treatment, Storage, and Disposal (TSD) Sites Remedial Design Report/Remedial Action Work Plan (RDR/RAWP). Internal review of the 100% design drawings for the 116-N-1 crib and trench and for the associated ASA/FHC is planned for completion by the end of July.

100 Burial Ground ROD: A public meeting was held on June 14 at Hood River, Oregon, regarding the 100 Area Burial Grounds remediation planning. A presentation was given to brief the public on the recommended preferred alternative for the burial grounds, which is the "remove, treat, and dispose alternative". Public comment and questions were received and addressed during this meeting.

300 Area Remediation: Excavation was completed at Landfills 1A and 1B. In addition, the lead-contaminated soil that had been stockpiled in Landfill 1D was shipped to the Environmental Restoration Disposal Facility (ERDF) in accordance with the recently approved variance. The remedial action subcontractor has initiated demobilization. The only remaining tasks include removal of some underground piping, completing 316-1 south process pond, and restaging of uranium drums in the 618-4 Burial Ground. A Request For Proposal (RFP) was issued to treat the drummed uranium waste from the 618-4 Burial Ground. A pre-proposal meeting was held with prospective bidders.

300 Area Assessment: On June 29, Revision 0 of the 300-FF-2 Operable Unit Focused Feasibility Study (FFS) and Proposed Plan were transmitted to the regulators. Public comment period was initiated on July 3. In addition, Explanation of Significant Differences (ESD) transferring two 300-FF-2 sites (J.A. Jones 1 and 600-23) to the Remaining Sites ROD, and 300-FF-2 groundwater to the 300-FF-5 ROD were approved by RL, U.S. Environmental Protection Agency (EPA) and Ecology.

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.

Green

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.

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.

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	7/10/00 (A)
*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

*Per regulator recommendations, 300-FF-1 backfill/regrade will be deferred until the 300-FF-2 uranium cleanup standards have been negotiated. A TPA change package will be required if the cleanup levels are lowered.

**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.

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

- DNFSB Commitment:

None identified at this time.

PERFORMANCE OBJECTIVES: RAWD

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

Green

PERFORMANCE MEASURES: RAWD – (River and Plateau)

	DWP FY00	FY00 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
Waste Sites	24	41	42	42	20 [b]
100 Area Burial Ground Assessments	0	46	47	47	47 [a]
300 -FF-2 Assessments	119	119	119	119	119 [a]
Other Assessments	2	2	2	2	2
Tons	389K	N/A	651K	651K	506K

Green

[a] Proposed Plan, Draft A submittal.
[b] The number of waste sites completed through July 27 is 39. The Performance Measure Summary report will be updated to reflect the completions.

STRETCH AND SUPERSTRETCH GOALS: RAWD

FY00 RAWD "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Perform Excavation in Unfunded Sites in 100 B/C, HR -1, FR -1, 100, and 300 Area and Plumes:		
(1) Extended Plumes at 316 -1 S Pond (BCP -20043)		$1,202.8K
(2) Additional Plumes at 100 -DR (BCP -2005 0)		$905.8K
(3) Additional Plumes at 100 -HR (BCP -20119)		$240.3K
(4) Additional Plumes at 100 -HR (BCP -20130)		$425.0K
(5) Additional Plumes at 300 -FF (BCP -20113)		$669.4K
(6) Additional Plumes at 100 -DR (BCP -20116)		$175.2K
(7) Defer Backfill at 100 -DR (BCP -20166)		($93.2K)
(8) Additional Plumes at 100 -DR (BCP -20189)		$124.9K
(9) Additiona l Plumes at 100 -DR (BCP -20215)		$101.1K
S/Total Remedial Action Stretch Goals:	$4,560.0K	$3,751.2K

Green

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

Green

*Status: Efficiencies identified; project working on baseline change package.

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	21,116	21,275	159
ER03 300 Area Remedial Actions	6,152	5,938	-214
ER04 ER Waste Disposal	15,867	15,901	34
TOTAL Remedial Actions	43,135	43,114	-21

Green

PBS -ER01 – 100 Area Remedial Action
Schedule Variance = +$159K; +0.8% [Last Month: +$353; +1.9%]

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

Resolution: None required.

PBS -ER03 – 300 Area Remedial Action
Schedule Variance = -$214; -3.5% [Last Month: +$16K; +0.3%]

Cause: Procurement Package for Drum Disposal is behind schedule due to additional bid time requested by the bidders. Landfill 1D soil loadout delayed due to variance and waste profile issue.

Resolution: None required.

PBS -ER04 – Environmental Restoration Waste Disposal
Schedule Variance = +$34K; +0.2% [Last Month: +$471K; +3.4%]

Cause: Design and installation of cover (closure) being ahead of schedule.

Resolution: None required.

- Cost:

Remedial Action & Waste Disposal Project	BCWP	ACWP	Variance
	$K	$K	$K
ER01 100 Area Remedial Actions	21,275	17,555	3,720
ER03 300 Area Remedial Actions	5,938	4,451	1,487
ER04 ER Waste Disposal	15,901	14,045	1,856
TOTAL Remedial Actions	43,114	36,051	7,063

Green

PBS -ER01 – 100 Area Remedial Action
Cost Variance = +$3720K; +17.5% [Last Month: +$4044K; +21.2%]

Cause: Savings in DR-1 subcontract costs due to asbestos abatement changes and sampling efficiencies; 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.

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

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

PBS -ER03 – 300 Area Remedial Action
Cost Variance = +$1487K; +25.0% [Last Month: +$1745K; +31.3%]

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

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

PBS -ER04 – Environmental Restoration Waste Disposal
Cost Variance = [+$1856K; +11.7%] [Last Month: +$1868K; +12.9%]

Cause: ERDF cover design and construction closeout completed with fewer resources than planned, transportation cost efficiencies, and FY 1999 over accrual.

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

REGULATORY ISSUES: RAWD

Tri-Party Agreement Milestone M-16-26B: An out-year milestone, M-16-26B, "Complete Remediation and Backfill of 51 Waste Sites at B/C, DR, and HR, by February 28, 2001," will be missed due to lack of funding for the B/C pipeline remediation. **Green**

Status: Revised dates will be negotiated with the regulators, and a Tri-Party Agreement change package will be submitted. A meeting will be scheduled with the regulators in August.

Tri-Party Agreement Milestone M-16-26C: M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites 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. **Green**

Status: After completing additional arsenic sampling throughout the 100 Areas, Ecology agreed to use the Washington state background value of 20 mg/kg for arsenic. A BCP was approved that addressed this scope change. A Tri-Party Agreement change package will be initiated after the final plume remediation is completed.

Tri-Party Agreement Milestone M-16-03E: Regulators are evaluating the uranium cleanup level for the 300 Area. The approved 300-FF-1 ROD requires residual soil to be below 350 pCi/g, based on direct human contact. Currently lower cleanup levels are being explored for protection of groundwater at 300-FF-2. If lower cleanup levels are determined to be appropriate for 300-FF-1, additional excavation will be necessary. Tri-Party Agreement 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, is to be completed by December 31, 2000. **Green**

Status: Per regulator recommendation, defer backfill/regrade of 300-FF-1 until 300-FF-2 negotiations are completed, and the uranium cleanup standard is finalized. This will require renegotiation of M-16-03E.

REGULATORY ISSUES continued: RAWD

300 Area Continued Remediation: The regulators raised a concern that remediation of the 300 Area will not continue through the next fiscal year.

Green

Status: A meeting was held with the regulators on July 26 outlining the activities that constitute continuous remediation within the 300 Area that are currently scoped within the FY 2001 DWP. A letter documenting the meeting will be issued the end of July.

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: RAWD

ERDF: 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 began on June 26.

Green

Decommissioning Projects (D&D)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor ISS: Steady progress continued at the F and DR Reactor ISS projects during June. Backfill was completed in the below-grade gas recirculation tunnel and plenum demolition areas at F Reactor. A combined (Stage I and II) F Reactor (FSB) Sampling Analysis Plan (SAP) was issued for review and comment. The FSB water removal plan and the fuel transfer plan are nearing completion. Removal of exterior building debris began on the east side of the reactor in late June. The F Reactor Hazards Assessment and Characterization Report was transmitted to EPA on June 19. This satisfies completion of Tri-Party Agreement Target Milestone M-93-08-T1 that was due on June 30.

At the DR Reactor, concrete pourbacks were completed in the below-grade valve pit, accumulator trench, north gas tunnel area, and south gas recirculation tunnel. At a May 17 meeting held with the regulators, agreement was reached that the contaminant concentrations in the DR Reactor FSB concrete were low enough and sufficiently immobile to allow the FSB floor slab to remain in place. These meeting results were documented and approved by the regulators in June. Demolition of the FSB (above-grade and below-grade), transfer bay, and monitor room was completed the last week in June.

D and H Reactor ISS: Biological cleanup was initiated at H Reactor in June. The Draft B EE/CA documents for D and H Reactor ISS were submitted for RL and regulator review. The H Reactor ASA was transmitted to RL on June 30. The D Reactor ASA comment resolution was also completed in June. The gamma camera and In Situ Object Characterization Survey (ISOCS) instrumentation were deployed at D Reactor for radiological scoping surveys.

Green

233-S Plutonium Concentration Facility Decommissioning Project: Work progressed at the highly contaminated 233-S Plutonium Concentration Facility Decommissioning Project in June, including the following activities:

- Completion of radiological surveys of the process hood floor area.
- Removal of PMMA panels (total 70) from the process hood east face has been completed ahead of schedule. Continued removal of horizontal channel iron.
- Completion of the first fixative application in the process hood.
- Neutralized and stabilized 12 liters of nitric acid.
- Removal of supply duct inside the viewing room fourth floor stairwell.
- Removal of grating from the north ends of viewing room second, third, and fourth floors in preparation for localized ventilation installation.

SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

Contamination detected under manufactured belt loops of Powered Air Purifying Respirators (PAPR).

Green

Status: The ERC has completed the formal causal analysis of the PAPR contamination and procedural noncompliance issues. The corrective actions resulting from the analysis are:

Corrective Action #1 - The ERC will evaluate the current method for releasing PAPR units from a controlled area. This evaluation will also include other radiological safety equipment such as air monitors, air samplers, and the potential use of Radioactive Material labeling.

Corrective Action #2 - The PAPR procedure will be revised to require formal training to D&D workers tasked with taping a manufacturer's supplied plastic cover on PAPR units for contamination control. This will standardize the method in which PAPR units are taped and provide appropriate review of methodology by affected organizations.

Corrective Action #3 - The ERC will evaluate and revise its required reading program as appropriate. Current recommendations include setting a review time for Training Coordinators to check for procedure revisions, set a reasonable time for employees to complete required reading, establish a requirement and process for procedure authors to notify managers and Training Coordinators of procedure revisions, and establish priority levels which will establish time limits for required reading of work process and safety related procedure changes.

Corrective Action #4 - The requirement to build a temporary belt loop from duct tape will be removed from the PAPR procedure. The NIOSH approved equipment (manufacturer's belt loop) will be used with modifications to the taping methodology to eliminate contamination potential. In addition, the ERC has reinstated the practice of wearing the PAPR under the outer layer of protective clothing based on discussions with the manufacturer and field testing of air flows. Procedure revisions will be complete by July 31.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

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

None identified at this time.

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

- DOE Secretarial:

None identified at this time.

- 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.

Green

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. The PI has been updated to eliminate this item.

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

- TPA Milestones:

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	7/10/00 (A)

Yellow

*The B Reactor milestone deliverable was submitted to DOE-RL (PM) on June 27 and delivered to the DOE-RL Office of Regulatory Liaison on June 28 for concurrence and submittal through the remainder of the signature cycle. The document was received by the regulators on July 10, ten days later than the milestone completion date of June 30. A letter received on July 25 documented comments on the content of the document.

Status: A follow-up meeting with the regulators is scheduled for July 27 to discuss a path forward for completion of the EE/CA. EPA states that the milestone will be considered complete upon receipt of a response from DOE-RL committing to a schedule of our EE/CA for B Reactor. The response letter should also address what the EE/CA will cover in relation to the concerns raised in the EPA comment letter. The draft letter is currently being prepared. The EE/CA scope of work is waiting approval by DOE-AME and is scheduled to start in September 2000.

Chronology of Events: Meetings were held with EPA and Ecology to discuss changes related to the reactor TPA milestones in general due to the accelerated ISS Project. These meetings began in late March and are continuing. The scope of the B Reactor milestones were discussed at the earlier meetings. It was noted that the complete path forward for B Reactor had not been developed in prior negotiations. The scope of the June 30, 2000 milestone (M-93-05) was described by DOE as an engineering and cost evaluation for addressing the hazards identified in the June 30, 1999 milestone (M-93-04) along the existing tour route. This scope was defined in the DWP. EPA expressed concern that the document would not be sufficient for public review and should include all the hazards for the facility not just the existing tour route. EPA suggested that DOE continue with the path to meet the milestone and include a rough order of magnitude estimate for the remaining hazards in the facility outside the existing tour route. BHI and DOE approved BCP 20199 in May 2000, to include this additional scope. EPA stated that they would accept this as meeting the intent of the milestone and would provide a comment that an EE/CA would still be required for public review. This path was followed by BHI until the completion of the milestone deliverable.

- DNFSB Commitment:

None identified at this time.

PERFORMANCE OBJECTIVES: D&D

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	Reactor ISS and preparation of facilities for decommissioning.	Baseline reactor ISS work is projected to be completed per PI requirements.
Transition Central Plateau to Support Long -Term Waste Management	Maintain facilities until D&D (233-S).	New performance indicators drafted, submitted, and approved. All PI work is projected to be completed per PI requirements.
	Maintain facilities until D&D (224B).	All PI requirements completed; balance of performance measure deleted due to suspension of 224B work activities.

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)
Continue F Reactor Interim Safe Storage (ISS) (BCP -20151)	$2,000.0K	$1,490.8K
*Public Access to Hanford Townsite and B Reactor	$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 work, thus not an ER Superstretch.

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

- Schedule:

Decommissioning Projects	BCWS $K	BCWP $K	Variance $K
ER06 Decontamination & Decommissioning	11,854	11,734	-120
Total D&D	11,854	11,734	-120

Green

PBS -ER06 – Decontamination and Decommissioning
Schedule Variance = -$120K; -1.0% [Last Month: -$471K; -4.4%]

Cause: 233-S decommissioning: disposal of duct delayed pending fixing of internal contamination. Procurement of Standard waste box (SWB) waste containers is also behind schedule.

Resolution: Exhaust duct removal is planned to start in July after completing the Process Hood decontamination. Fixing of internal contamination is being coordinated with removal and disposal of roof exhaust duct, which is scheduled for completion in September. Waste containers are expected in July and shipment of TRU to Central Waste Complex (CWC) is scheduled for September.

Cause: Reactor ISS decommissioning: pipe and equipment removal outside reactor building delayed at F due to Rigger support at higher priority locations (233-S and CDI Canyon)

Resolution: Work began in June but is intermittent due to Riggers also supporting SM&T Canyon work and 233-S.

- Cost:

Decommissioning Projects	BCWP $K	ACWP $K	Variance $K
ER06 Decontamination & Decommissioning	11,734	11,223	511
TOTAL D&D	11,734	11,223	511

Green

PBS -ER06 – Decontamination and Decommissioning
Cost Variance = +$511K; +4.4% [Last Month: +$504K; +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 should lead to resolution in the near future.

D and H Reactor Engineering Ev aluation/Cost Analysis (EE/CA): The D and H Reactor EE/CA schedule required regulator review to be completed by April 19, to meet the established Detailed Work Plan (DWP) goals and deadlines. EPA has also proposed TPA Reactor milestones before approving an Action Memo for D&H. EPA has also proposed sending the EE/CA to the EPA National Remedy Review Board located in Washington D.C. **Green**

Status: BCP approved to split D&H EE/CA into the two documents. Transmitted for DOE/Regulator Review on June 13. Discussions opened with regulators on TPA Reactor Milestones. Developing new schedule for regulators showing when their involvement is required for the remainder of the fiscal year.

Demolition Equipment: Demolition equipment (track hoe excavators and shuttle truck) breakdowns continue to cause delays to demolition activities. **Green**

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 prepared an equipment priority list and was directed to prepare a procurement plan for a new excavator, which was completed. Procurement options are currently being evaluated. Plans are to purchase equipment if supplemental funding in FY 2001.

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)

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Compliance and Quality Programs: A RCRA inspection was conducted in the 100 Area as required by the Hanford site-wide RCRA permit. No reportable items were noted. Several housekeeping issues were identified, however. These housekeeping items were documented and will be tracked to ensure corrective actions are completed.

A surveillance was performed at the 271-U and 1330-N <90-Day Hazardous Waste Storage Pads, plus two satellite accumulation areas (SAAs) at the REDOX facility. The surveillance inspections were performed to review waste management practices for compliance with regulatory and procedural requirements. The surveillance focused on container management practices, emergency action plans, spill kit inventory, inspection and waste container records. Overall, the surveillance resulted in ten observations. A written response was prepared to address the issues identified.

The required annual update of the ERC Quality Program Manual was submitted to RL for review and approval.

Safety and Health: Two self-assessments were completed in June with no actions identified. The self-assessments included the annual Respiratory Protection Program and the Hazardous Waste Worker Program implementation.

Development progressed on new and revised procedures that is required to ensure ERC is in full compliance with the revised 10 CFR 835 regulation by July 31. The effort is on schedule.

Green

PROGRAM AND PROJECT SUPPORT:

Procurement and Property Management: BHI participated in a peer review at Argonne National Lab (ANL) in support of the DOE Procurement Evaluation and Reengineering Team (PERT). This procurement peer review process assists DOE in improving consistency between various sites, and supports DOE's objective to continue moving away from prescriptive transactional file review processes. The peer review was also an excellent forum to share procurement best practices and experiences in a very constructive and in-depth manner.

External Affairs: A recognition event was held to acknowledge B Reactor Museum Association (BRMA) members for their voluntary assistance in conducting reactor tours and their persistence in promoting the museum concept. Approximately 80 invited guests attended including six media representatives. RL and BHI management pledged support to preserving the museum and developing the next steps in concert with the regulators and stakeholders.

Document and Information Services (DIS): DIS representatives made a presentation on BHI's protocols for electronic information transfer to the DOE Office of Scientific and Technical Information (OSTI) at the June 15 meeting of the Hanford Technical Information Council (HTIC). In response to questions from the RL Director of Intergovernmental Public and Institutional Affairs, it was noted that BHI is the only contractor in the DOE complex to send 100% of its information to OSTI in electronic formats.

ACCOMPLISHMENTS continued: PM&S

ENGINEERING AND TECHNOLOGY:

Technology Applications: The Technology Applications group provided support to the National Energy Technology Laboratory (NETL) Industry Program to evaluate vendor qualifications for solicitations for delineation of carbon tetrachloride in deep and geologically challenging environments.

The return on investment (ROI) project proposal for the ISRM and CDI projects has been selected in the upper tier of environmental restoration related pollution prevention (P2) proposals. The proposal will be presented at the upcoming HQ Unfunded ROI workshop. There is a possibility of receiving up to $500K for each project.

PLANNING AND CONTROLS:

Staff/Baseline/Reporting: The FY 2001-2003 DWP kickoff meeting was held on June 5 with ERC, RL, regulator, and stakeholder representatives in attendance. New code of account structures were also developed for FY 2001 workscope.

A draft of the ER portion of the Hanford Site Solid Waste Information Forecasting Tool (SWIFT) database was completed.

The Tri-Party Agreement Quarterly Review was held on June 27 with the regulators. ERC project accomplishments, issues, and Tri-Party Agreement milestone status were discussed.

Green

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.

- 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	08/00 (F) [a]
3-D Visual and Gamma Ray Imaging S ystem	RL-ER05	06/00	07/00 (F) [b]
Liquid -Level Detection Technology (Thermography and/or Ultrasonics)	RL-ER05	09/00	TBD [c]

Green

[a] One cell remains to be accessed. Cannot deploy Brokk™ until all cells have been accessed. Access to cell is currently restrained due to issues with the overhead crane drum. Repairs are in process.
[b] Equipment procurement delay. (May not be needed at CDI, but is being used by D&D.)
[c] May not be needed. Dependent upon condition of process tanks in the 221-U cells.

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	16,960	16,736	-224
ER10 RL Program Management & Support	4,962	3,363	-1,599
TOTAL PM&S	21,922	20,099	-1,823

Green

PBS -ER10 – Program Management and Support
Schedule Variance = -$1823K; -8.3% [Last Month: -$1588K; -8.3%]

Cause: Late billing on site-wide assessments.

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

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

- Cost:

Program Management & Support	BCWP $K	ACWP $K	Variance $K
ER10 ERC Program Management & Support	16,736	15,944	792
ER10 RL Program Management & Support	3,363	3,363	0
TOTAL PM&S	20,099	19,307	792

Green

PBS -ER10 – Program Management and Support
Cost Variance = +$792K; +3.9% [Last Month: +$494K; +2.8%]

Cause: Fewer special requests and audits have resulted in savings; procurement staff efficiencies, Y2K underruns, reduced revegetation support, baseline management efficiencies, and credit received as result of the '96 final incurred actual rebill cost.

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.

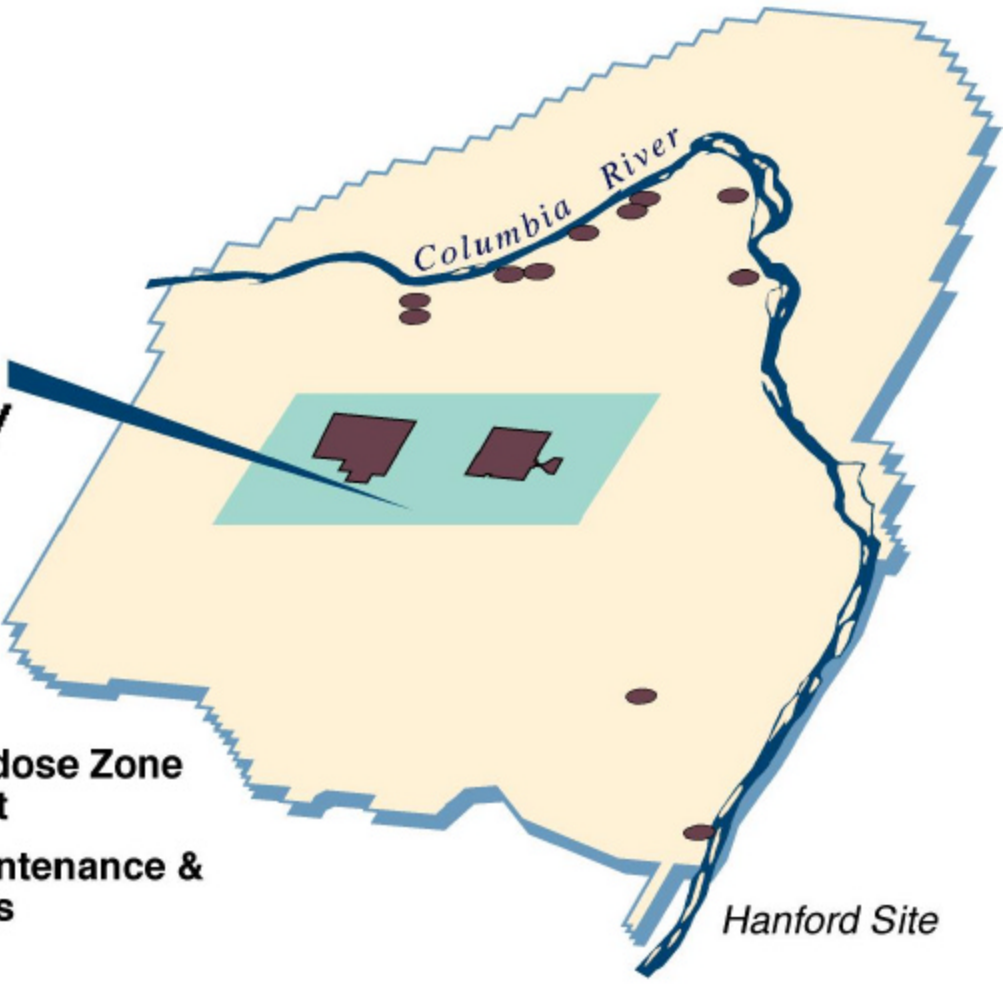
Richland Operations Office

Environmental Restoration

Environmental Management Performance Report

Section C - Central Plateau Information

August 2000



- **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

E0003099.1

Groundwater/Vadose Zone Integration (GW/VZ)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).

Groundwater/Vadose Zone Integration (GW/VZ):

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

General Project Activities: The second meeting with the National Academy of Sciences was conducted at Hanford to review the Science & Technology (S&T) component of the Integration Project.

Public Invo lvement: The project participated in the Oregon Hanford Waste Board meetings conducted during June and assisted U.S. Department of Energy (DOE), Headquarters (HQ) in the transmittal and distribution of the Semi-Annual Groundwater/Vadose Zone Report to members of the Northwest Congressional Delegation.

Science and Technology: Final fluid injections were completed for the vadose zone transport experiment. The main objectives of the vadose zone transport field study are to focus on the underground tank leak issues, improve vadose monitoring capabilities, identify key transport processes, and provide data for model verification.

System Assessment Capability: A management review of the System Assessment Capability (SAC), Revision 0, "Assessment Description, Requirements, Software Design and Test Plan" was performed. The review team included members of the Integration Project Expert Panel (IPEP) and Sandia National Laboratory.

GROUNDWATER MANAGEMENT:

In Situ REDOX Manipulation Project: The construction contract for the ISRM evaporation pond was awarded, and field work commenced in June. The first chemical injection is planned for late July.

Green

Well Drilling, Maintenance, and Decommissioning: Well maintenance activities continued in June. Maintenance on 134 out of 138 planned wells has been completed through June. The well drilling subcontract was issued for bid. Contractor mobilization is expected in late July.

Long -Term Groundwater Monitoring: A workshop was conducted with RL, Ecology, and contractors to focus on the long-term path forward for Liquid Effluent Retention Facility (LERF) monitoring activities. Borehole data reports were completed for wells constructed at the S-10 pond and ditch (Well 299-W26-13), single shell tanks (SST) TX-TY (299-W15-41), and SSTs B-BX-BY (299-E33-334 and 299-E33-335).

Tritium Investigation: The draft waste management plan that addresses the tritium investigation of the 618-11 burial ground was approved by the regulators in mid July. A waste pad is also being prepared in the 300 Area for investigation waste.

Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above planned 90% availability levels through June. Since system inception, the five pump and treat systems have processed over 4.0 billion liters of groundwater, removing 4,269 kilograms of carbon tetrachloride, 177 kilograms of chromium, and 0.840 curies of strontium. Approximately 762.2 million liters of groundwater have been processed in FY 2000, removing approximately 865.2 kilograms of carbon tetrachloride, 44.5 kilograms of chromium, and 0.134 curies of strontium.

ACCOMPLISHMENTS continued: GW/VZ

100 -HR -3 Pump and Treat System: Approximately 26.1 million liters of groundwater were processed in June removing approximately 1.6 kilograms of chromium. 206.9 million liters have been processed in FY 2000, with 19.4 kilograms of chromium removed. Approximately 858.5 million liters of groundwater have been processed from inception to date, with 83.7 kilograms of chromium removed.

100 -KR -4 Pump and Treat System: Approximately 19.1 million liters of groundwater were processed in June removing approximately 2.2 kilograms of chromium. 208.5 million liters have been processed in FY 2000, with 25.1 kilograms of chromium removed. Approximately 733.9 million liters of groundwater have been processed from inception to date, with 93.5 kilograms of chromium removed.

100 -NR -2 Pump and Treat System: Approximately 8.4 million liters of groundwater were processed in June, removing approximately 0.016 curies of strontium. 75.5 million liters have been processed in FY 2000, with 0.134 curies of strontium removed. Approximately 498.4 million liters have been processed from inception to date, with 0.840 curies of strontium removed.

200 -UP -1 Pump and Treat System: Approximately 6.7 million liters of groundwater were processed in June removing approximately 56.6 million liters in FY 2000. From inception to date, approximately 412.3 million liters have been transported to the Effluent Treatment Facility (ETF) for processing. 343.0 million liters were previously processed prior to utilizing the ETF.

200 -ZP -1 Pump and Treat System: Approximately 27.1 million liters of groundwater were processed during June, removing 116.9 kilograms of carbon tetrachloride. 214.7 million liters have been processed in FY 2000, with 865.2 kilograms of carbon tetrachloride removed. From inception to date, approximately 1.17 billion liters have been processed, with 4,269 kilograms of carbon tetrachloride removed.

200 -ZP -2 Vapor Extraction System: The 200-ZP-2 soil vapor extraction system was placed off-line for FY 2000, in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling has been implemented.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ

None identified at this time.

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

None identified at this time.

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

- DOE Secretarial:

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

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. **Green**

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

- Ecology concurrence with the activities described in the Revision 1, Remedial Design Report / Remedial Action Work Plan (DOE/RL-99-51, Rev. 1, June 2000).
- The evaporation pond contract was awarded in early June. The contractor mobilized mid-June to construct the evaporation pond used for well extraction waste management activities.
- Well injections are scheduled to begin August 1, to be completed by the end of September.

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

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

- DOE EM Performance Agreement:

None identified at this time.

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-24-46	Install two (2) additional wells at SST WMA S-SX	12/31/00	12/31/00 (F)
M-24-47	Install four (4) additional wells at SST WMA T	12/31/00	12/31/00 (F)
M-24-48	Install four (4) additional wells at SST WMA TX-TY	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

- DNFSB Commitment:

None identified at this time.

PERFORMANCE OBJECTIVES: GW/VZ

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	Manage groundwater plumes per interim RODs.	Baseline work is projected to be completed per PI requirements.
Transition Central Plateau to Support Long-Term Waste Management	Complete system assessment capability.	Baseline work projected to be completed per PI requirements.
	Soil sites assessments.	Baseline work projected to be completed per PI requirements.
	Manage groundwater plumes per interim RODs.	All measures projected to meet PI requirements; all baseline work projected to be completed per PI requirements.

Green

PERFORMANCE MEASURES: GW/VZ

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY00 GW/VZ "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
*Complete Partitioning of Interwell Treatment at 200-ZP-1 and 200-ZP-2	$706.0K	$414.0K
S/Total GW – Vadose Zone Stretch Goals:	$706.0K	$414.0K

Green

*Status: Efficiencies identified. BCP 20246 was approved on July 25 to deepen elected vadose well in the 200-PW-1 in preparation of the PITT test.

STRETCH AND SUPERSTRETCH GOALS continued: GW/VZ

FY00 GW/VZ "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Provide Permanent Solution for Hanford Groundwater Plumes	$750.0K	$0.0K
Complete Reme diation of 60 Sq. Mi. of Hanford Site:		
(1) *Verify and administratively close 170 wells	$450.0K	$104.0K
(2) *Decommissioning of 200 wells	$900.0K	$1478.0K
S/Total GW – Vadose Zone Superstretch Goals:	$2,100.0K	$1582.0K

Green

Status: Efficiencies identified. BCPs 20248 and 20188 were approved on July 25 to administratively verify and decommission wells within the Columbia River Corridor.

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

- Schedule:

Groundwater Vadose Zone Integration	BCWS $K	BCWP $K	Variance $K
ER02 200 Area Remedial Actions	3,353	3,235	-118
ER08 Groundwater Management	17,978	16,518	-1,460
VZ01 Groundwater/Vadose Zone	8,091	7,641	-450
TOTAL Groundwater	29,422	27,394	-2,028

Green

PBS -ER02 – 200 Area Remedial Action (Assessment)
Schedule Variance = -$118K; -3.5% [Last Month: -$141K; -4.3%]

Cause: Miscellaneous assessment work rescheduled, pending RL decision on 200 Area Assessment Strategy.

Resolution: None required.

PBS -ER08 – Groundwater Management
Schedule Variance = -$1460K; -8.1% [Last Month: -$1565K; -9.7%]

Cause: ISRM injection and withdrawal materials were loaded to arrived earlier than actual procurement.

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

Cause: Groundw ater Monitoring sampling collection and analysis (PNNL) fell behind schedule in October/November, due to difficulties in bargaining unit personnel, 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; carryover forecast.

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

Cause: Waste shipments to ERDF and resin regeneration at Pump and Treat units have been delayed due to delays from off-site vendor inspection findings; no significant impact.

Resolution: Waste regeneration shipments have been schedule through FH rather than an off-site vendor.

PBS -VZ01 – Groundwater/Vadose Zone
Schedule Variance = -$450K; -5.6% [Last Month: -$969K; -13.0%]

Cause: Science and Technology activities delayed; formation of characterization core team delayed.

Resolution: Schedule variances continue to decrease for the remainder of FY 2000; 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 $K	ACWP $K	Variance $K
ER02 200 Area Remedial Actions	3,235	2,271	964
ER08 Groundwater Management	16,518	15,833	685
VZ01 Groundwater/Vadose Zone	7,641	7,289	352
TOTAL Groundwater	27,394	25,393	2,001

Green

PBS -ER02 – 200 Area Remedial Action(Assessment)
Cost Variance = +$964K; +29.8% [Last Month: +$987K; +31.8%]

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

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

PBS -ER08 – Groundwater Management
Cost Variance = +$685K; +4.1% [Last Month: +$559K; +3.8%]

Cause: Underrun due to completion of drilling of ISRM ahead of schedule. Underruns in routine well maintenance as some activities were cancelled due to unresolved waste issues.

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

PBS -VZ01 – Groundwater/Vadose Zone
Cost Variance = +$352K; +4.6% [Last Month: +$412K; +6.3%]

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

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. **Green**

Status: Draft A of the DQO Report for Phase II efforts has been reviewed by the regulators and comments are pending. Sampling and analysis plans (SAPs) for resampling key groundwater wells near the 618-11 burial ground and for investigating the nature and extent of the 618-11 groundwater plume have been reviewed by the regulators. These SAPs are scheduled to be approved in July and implemented during the July/August timeframe. A waste management plan (WMP) for this project has been prepared and approved by the regulators.

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

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 is forwarded to be completed by the end of July, with management review to be completed by mid August. BCP 20246 was approved on July 26 to implement scope associated with Deepen the Elected Vadose Well in 200-PW-1 in preparation of the PITT test.

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 has been added to the GW/VZ Project for 200 Area characterization work, but short of the $6-8M target required 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. **Yellow**

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 addressing the need for TPA change package proposals for 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 seeking to justify and identify additional funds for characterization. The ERC team in conjunction with RL management has developed a strategy to propose to the regulators to discuss this approach to initiating the 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. **Green**

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 and work is underway.

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: TPA change request was approved on June 26. Three interim milestones were established that identify a total of ten wells to be installed by 12/31/00. Two additional interim milestones were established that identify five wells to be installed by 4/30/01 (under M-24-00M). Due to lack of sufficient funding, BHI is using $1M of FY 2000 funds to support RCRA well installation.

WASTE MANAGEMENT ISSUES:

- BioSite Notice of Correction: Notice of Correction was received from Ecology on May 26. DOE/BHI response was issued on June 26. **Green**

  Status: Requirements include (1) Issue formal notification to Rabanco and City of Richland Landfills (completed), and (2) Designate and ship BioSite waste (135 drums), due end of September.

- Purgewater Secondary Waste Management: Discrepancy in the interpretation of the Purgewater Strategy applicability. Direction given by DOE is to get compliant with all LDR requirements. **Green**

  Status: Interim phase was initiated and a screening was completed for the potential listed waste codes to be applied. Activities on site will be conducted as planned, with a conservative application of the listed waste codes to the secondary wastes. A long-term resolution has also been accepted by DOE, to conduct a Listed Waste Applicability Assessment to minimize the listed waste codes to be applied on this waste stream. Talks with the regulators have been informal, awaiting the resolution of the Multi Media Investigation (MMI) case.

- 200-CW-1 IDW Waste Disposal at ERDF: A request for a contained-in determination was approved for the 200-CW-1 IDW waste by Ecology. Waste had to be removed from site by July 14, as per Ecology approved extension. Waste was shipped to ERDF, with approval from EPA. EPA is not allowing the final disposal of this waste since there is not a CERCLA-type document that covers this waste. The waste was shipped to ERDF as per an approved Waste Control Plan, which is not recognized by EPA as a CERCLA document. **Green**

  Status: Waste is staged at ERDF. DOE project management is working to resolve this issue with EPA and Ecology.

- K Basins Well Maintenance Purgewater: Purgewater from a well maintenance activity was discharged to the ground (130 gal and 10 gal). An Unusual Occurrence was filed by FH and the regulators notified of potential breach of the 216 Permit and the Purgewater strategy. The initial regulatory analysis does not support breach of the 216 Permit requirements, since purgewater management is excluded from the 216 provisions. It is very likely that the Purgewater Strategy restrictions on the areas of discharge of purgewater have been violated. **Green**

  Status: Further analysis of the implementation of Purgewater is ongoing. The language in the Purgewater Strategy will be reviewed and renegotiated with the regulators to remove conflicting and vague language that resulted in such an occurrence.

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)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end June.
All other data as of July 27, 2000 (unless otherwise noted).

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

ACCOMPLISHMENTS: SM&T

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

- Completion of the readiness review for the REDOX Facility plutonium loadout hood work. Sample hood work and encapsulation were completed.
- Completion of all field work and final report associated with the REDOX miscellaneous contaminated area stabilization.
- Completion of the construction and startup of the 100 N Area water plant, and completion of Phase I deactivation of the old water plant.
- Completion of the KE/KW acid tank sample work activities. Tanks were sampled and found that they can be treated as noncontaminated waste.
- Completion of sealing all planned 84 passive vents source elimination at the RARA sites approximately three weeks ahead of schedule. The final report is in progress.

Canyon Disposition Initiative: Six cells were accessed during June in support of CDI at the U Plant (221-U Building) canyon facility. Only one cell remains to be opened and is scheduled for access. In order to open the remaining cell, two heavy lifts (greater than 45 metric tons [50 tons]) will be required to remove old 100 N Reactor fuel casks. A total of 38 cells will have been accessed upon project completion. The railroad tunnel door was opened and surveyed. Concrete floor samples were then taken for characterization.

Preparation continued for remote coring sampling of the CDI cells utilizing the Brokk™ coring concrete machine. A list of cells is being finalized that will be remotely sampled.

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.

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

Green

PERFORMANCE MEA SURES: SM&T

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: SM&T

FY00 SM&T "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Deactivate 183 -N Water Treatment Plant (Phase I) (BCP -20111)	$131.0K	$131.0K
Deactivate 183 -N Water Treatment Plant (Ph ase II) (BCP -20175)	$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 Tr ansition Stretch Goals:	$1,250.0K	$354.2K

Green

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

- Schedule:

Surveillance/Maintenance & Transition Project	BCWS $K	BCWP $K	Variance $K
ER05 Surveillance & Maintenance	10,729	10,133	-596
ER07 Long-Term Surveillance & Maintenance	27	43	16
TOTAL SM&T	10,756	10,176	-580

Green

PBS -ER05 – Surveillance and Maintenance
Schedule Variance = -$596K; -5.6% [Last Month: -$414K; -4.5%]

Cause: CDI behind schedule due to canyon crane problems.

Resolution: Task lead preparing a work around plan to recover schedule.

Cause: Subcontract for Authorization Basis development was split into three contracts causing delays in award.

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 $K	ACWP $K	Variance $K
ER05 Surveillance & Maintenance	10,133	10,291	-158
ER07 Long-Term Surveillance & Maintenance	43	29	14
TOTAL SM&T	10,176	10,320	-144

Green

PBS -ER05 – Surveillance and Maintenance
Cost Variance = -$158K; -1.6% [Last Month: -$413K; -4.7%]

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 and 200 Area CDI crane repair.

Resolution: Project is monitoring costs. Trends were identified.

Cause: Underruns on B Plant S&M and RARA stabilization from work practice efficiencies.

Resolution: Underrun will be utilized for other ER work.

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

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.

Yellow

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. There are past indications that the roofs leaks. A meeting is planned with RL on August 9 to review roof issues. A letter (CCN# 080327) was submitted to RL on July 6 documenting BHI's recommendation for roof repair.

Hexone Tanks: A Notice of Correction was received from Ecology on May 26. In the notice, 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.

Green

Status: A BCP was approved on June 5 to perform DQOs on the Hexone Tanks in FY 2000. The tank inspection frequency was changed to a daily basis for the nitrogen purge, and to a monthly basis for the purge system integrity. A response letter was submitted to RL on June 23. DQO kick-off was held on July 18.

INTEGRATION ACTIVITIES: SM&T

None identified at this time.