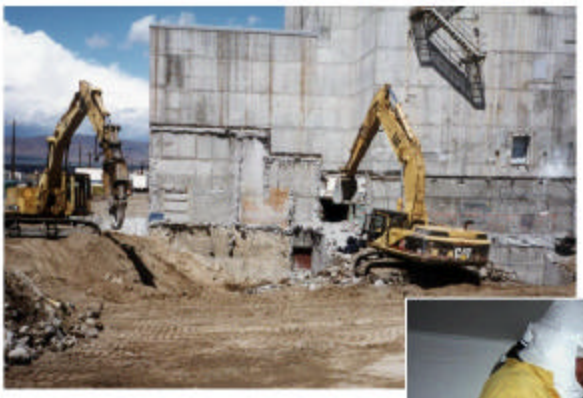
Richland Operations Office

Environmental Restoration

Environmental Management Performance Report

October 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

OCTOBER 2000

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ENVIRONMENTAL RESTORATION
OCTOBER 2000

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B – Restoring the River Corridor Project Summaries, and Section C – Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data is current as of August 31. Accomplishments, Issues and Integration items are current as of September 21, 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 August.
All other data as of September 21, 2000 (unless otherwise noted).**

NOTABLE ACCOMPLISHMENTS:

River Corridor:

An interim cover is being installed over Environmental Restoration Disposal Facility (ERDF) Cells #1 and #2. The installation will be complete by September 30. The interim cover (approximately six-year life) will consist of a vapor barrier covered with fill dirt and native vegetation.

The request for proposal (RFP) in support of 100 B/C Area pipeline remediation work was sent to prospective bidders on August 23. Bids are due on September 29.

In the 100 D Area, backfill was completed for the 116-DR-4, 116-DR-6, and 100-D-12 waste sites during August. Excavations were completed earlier this fiscal year.

All variance and confirmation sampling activities for 100 H Area excavations were completed on August 24. Preliminary data from 100 H Area pipeline remediation activities indicate elevated contamination levels. The source of the contamination is currently being investigated. Additional excavation may be required.

The 300-FF-1 excavation contractor demobilization effort was completed on August 4. All laboratory data were received from verification samples recently taken at the South Process Pond and Landfills 1A, 1B, and 1D located in the 300 Area. Data results indicate that all 300-FF-1 Record of Decision (ROD) cleanup levels were met for all contaminants of concern.

Good progress was made at the F and DR Reactor Interim Safe Storage (ISS) projects throughout August. Demolition and loadout actions were completed, as were concrete and soil sampling activities, in the F Reactor valve pit and solid feeds area. The first sampling event was completed in support of F Reactor Stage I Fuel Storage Basin (FSB) demolition. By using the GeoProbe, the lower boundary of the clean fill was located in the FSB. The GeoProbe is a technology that uses a probe inside a small diameter tube to measure and distinguish between naturally occurring and man-made gamma radiation in the soil. It is less expensive and faster than other sampling methods.

Green

At the DR Reactor ISS project, several activities were completed during August. Among these were backfill of the north effluent pipe tunnel and south reactor tunnel; pipecutting of the south reactor effluent pipe and removing the south reactor exterior debris and stairway; and side-slope sampling in the FSB, and concrete and soil sampling in the valve pit area.

Biological cleanup was completed at the D Reactor. The draft D and H Reactor Engineering Evaluation/Cost Analysis (EE/CA) documents were completed on August 16. Management review is underway.

Substantial progress continued at the 233-S Plutonium Concentration Facility despite the confined workspace environment and contamination hazards that are encountered during each entry. There was an average of 230 entries per month into the 233-S facility since January. 233-S decommissioning commenced 35 months ago (1,066 days), and since that time, work has progressed safely, with no lost workdays occurring.

FY01-03 Detailed Work Plan (DWP) Management Reviews were held during August for each of the Environmental Restoration (ER) Projects. Regulators, stakeholders, U.S. Department of Energy, Headquarters (DOE-HQ) and Richland Operations Office (RL) management, and Bechtel Hanford, Inc. (BHI) personnel were in attendance. On August 29, a DWP Recap meeting was held to finalize any outstanding issues. The ER FY01-03 DWP is expected to be signed on September 26.

NOTABLE ACCOMPLISHMENTS continued:

Central Plateau:

The Groundwater/Vadose Zone (GW/VZ) Integration Project conducted several open project meetings and submitted a quarterly public involvement document "look ahead, look back" for the Hanford Advisory Board (HAB) Public Involvement Committee.

In Situ Redox Manipulation (ISRM) barrier placement activities began on August 1 in the 100 D Area. Chemicals were injected into seven of the ten selected wells by month end. Withdrawal of the chemical reactive byproducts was completed in four of these wells, and three wells are currently in the process of being withdrawn. This activity satisfies early completion of a FY00 management commitment milestone, "Install Wells and Initiate Injection of the Barrier for Phase I of the In Situ Redox Groundwater Remediation" that was due September 30.

Five of the ten planned calendar-year 2000 Resource Conservation and Recovery Act (RCRA) wells have been constructed and are sample ready. The remaining wells are on schedule for completion by the end of December.

All five groundwater pump and treat systems continued removing contaminants from the groundwater. All operated above the cumulative planned 90% availability through August.

The Draft A 200-TW-1 Scavenged Waste Group Operable Unit and 200-TW-2 Tank Waste Group Operable Unit Remedial Investigation/Feasibility Study (RI/FS) Work Plan was transmitted to the regulators on August 14, two weeks ahead of schedule. This document satisfies completion of Tri-Party Agreement Milestones M-13-23 and M-13-24 that were due on August 31.

The first surveillance of the B Plant interior was completed since the facility was transitioned to the ER Project more than 10 months ago. There was no evidence of any degradation after 10 months with no ventilation in the facility. No entry was allowed into the facility while the ventilation system was inoperable.

Posting requirements were identified for the B Reactor, and a total of 22 signs were posted on the facility's tour route.

As of August, all 38 process cells had been accessed at the U Plant (221-U Building) in support of the Canyon Disposition Initiative (CDI) Project. In early September, remote concrete core sampling began in one of the CDI cells. Several attempts were made to obtain 15-20 centimeter (6-8 inch) core samples using the Brokk™ concrete coring machine. However, only samples of 5 centimeters (2 inches) or less were achieved. Swedish technical consultants arrived on Site to troubleshoot and evaluate path forward.

Characterization of the CDI drain header was successfully completed by utilizing a robotic crawler to perform the inspection. The robotic crawler was custom designed and built by Pacific Northwest National Laboratory (PNNL) engineers. The robot traveled the equivalent of nearly three football fields to visually inspect the 61-centimeter diameter (24-inch) drain line for structural integrity, obtain radiation readings, and collect samples of contaminated materials within the line. The data will be used to determine the disposition of the five chemical processing facilities (canyons) on the Hanford Site.

Green

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Green

Sixteen Tri-Party Agreement milestones have been completed through August; 15 ahead of schedule, and one behind schedule. (One FY01 milestone that was to be completed by 12/31/00, was completed on September 14; three months ahead of schedule.)

Total Tri-Party Agreement Milestones Due in FY00	***16***
Total Planned Through August	*15*
Total Completed Through August	*16*

Remaining Tri-Party Agreement Milestones to be Completed in FY00	***0***
Forecast Ahead of Schedule	*0*
Forecast On Schedule	*0*
Forecast Behind Schedule	*0*

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: *Complete (two months ahead of schedule). The 16-well installation was completed on April 24. Barrier injection was initiated on August 1.*

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.*

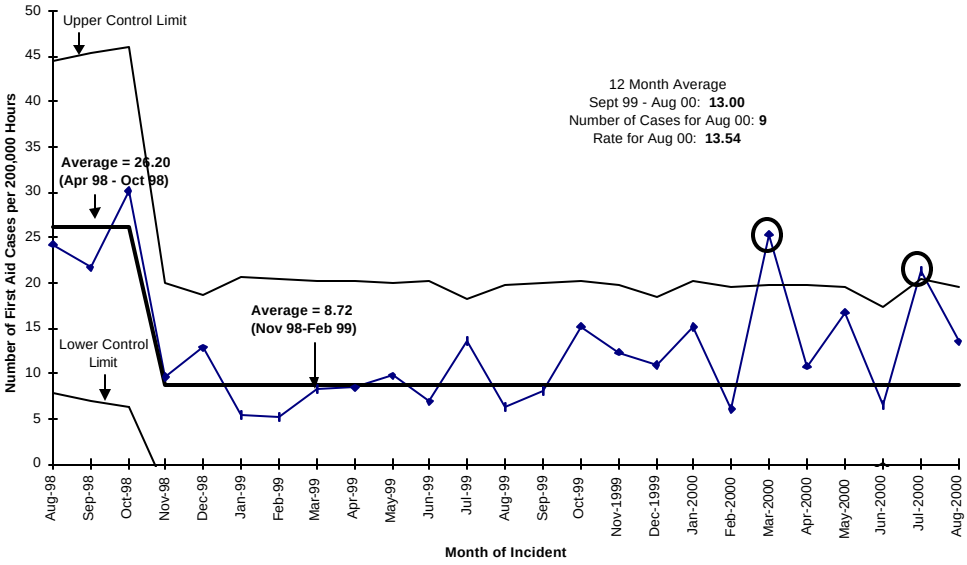
EM Corporate Performance Measures:

Green

	DWP FY00	FY00 Mgmt Commitments	Current Baseline	Forecast for FY00	Completed YTD
Waste Site Assessments	*121*	*167*	*168*	*168*	*168*
Waste Site Excavations	*24*	*41*	*43*	*42*	*42*
Technology Deployments	*0*	*4*	*4*	*10*	*8*

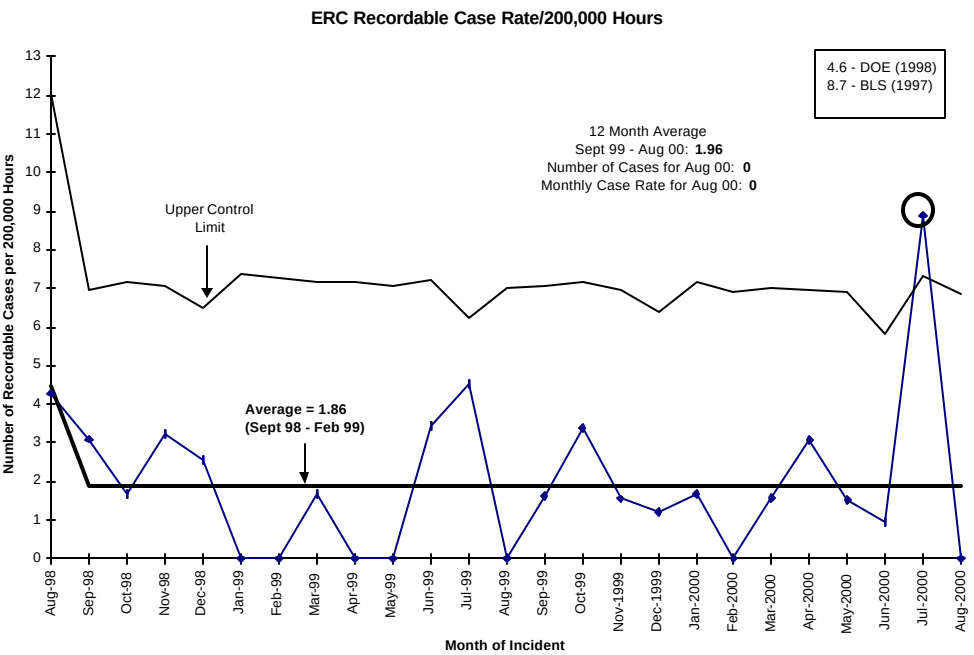
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):

Green



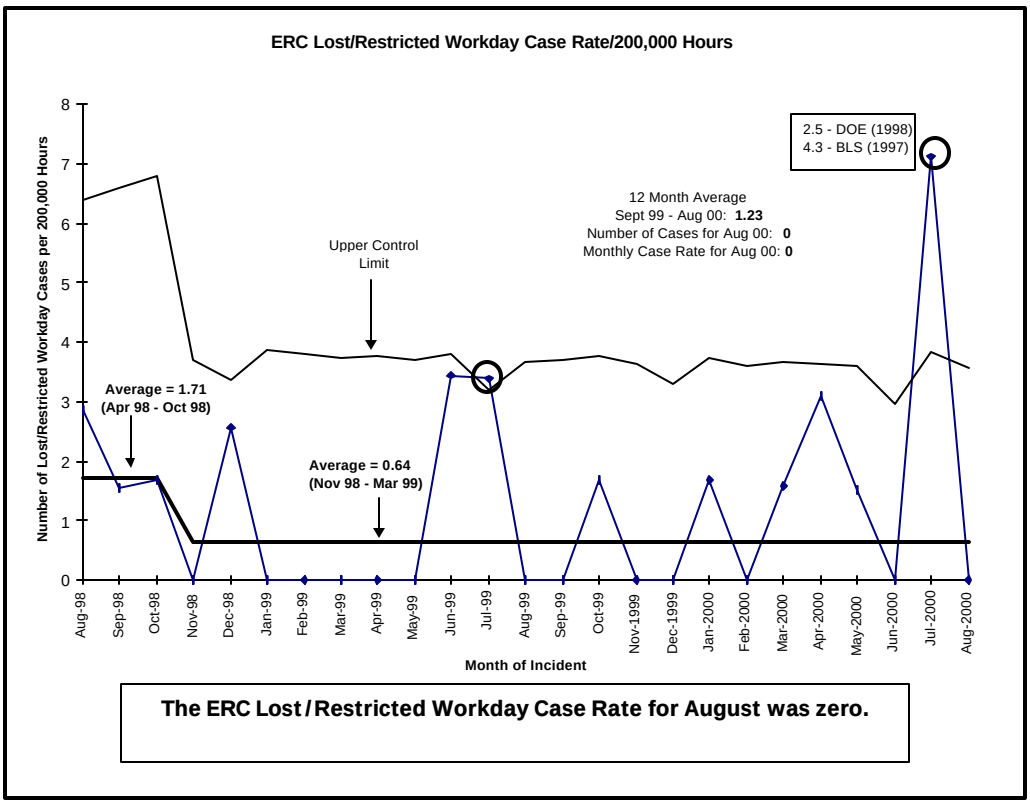
The ERC First Aid Case Rate for August was slightly above the twelve-month average.

Green



The ERC Recordable Case Rate for August was zero.

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



The ERC Lost/Restricted Workday Case Rate for August was zero.

Green

Safety:

	YTD	Current Month (Aug)	Current Month Comments
First Aid	*99*	*9*	*(3) lacerations, (4) pain, (1) puncture, (1) strain*
OSHA Recordable	*17*	*0*	*Two previous first aid incidents became recordable during the August reporting period.*
Restricted Workday Case	*8*	*0*	*N/A*
Lost Workday Case	*2*	*0*	*N/A*

Green

The ERC, as of September 16, 2000, reports 242,800 hours since last lost workday incident. The last lost workday incident occurred on July 20, 2000 and became a lost time on July 25, 2000.

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

ISMS:

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

Green

Status:

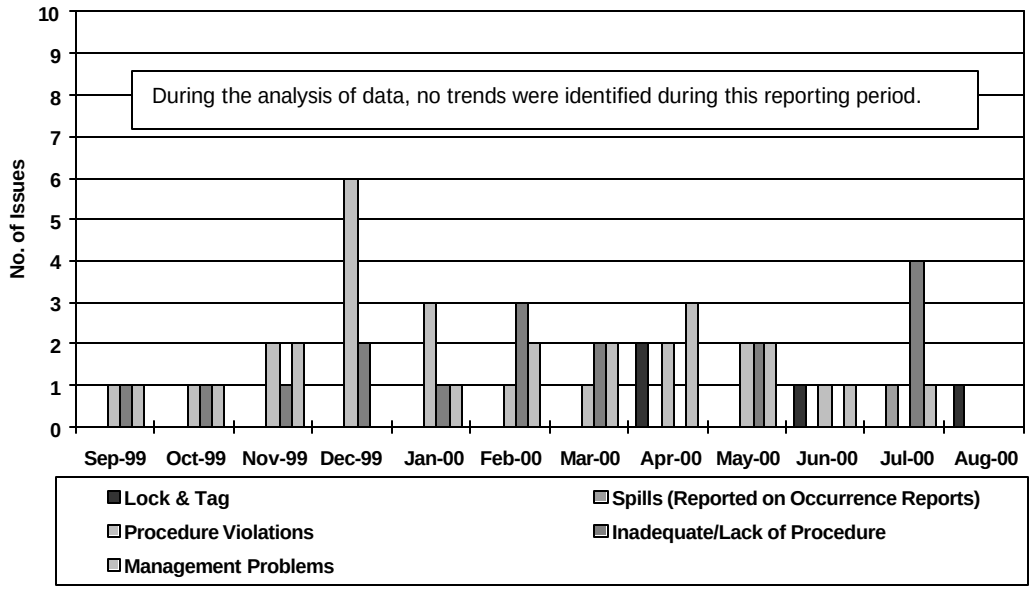
- *Continuing our effort on the closure of the multi-discipline action plan. It is on schedule for completion by September 30, 2000. All other actions have been completed.*
- *Continuous improvement and employee awareness of ISMS is ongoing through the ISMS Question of the Day Program and the distribution of ISMS Awareness Badges (over 1000 distributed) and "ISMS=The Way We Do Work" lanyards (over 1000 distributed to date) to ERC employees.*
- *The Detailed Work Plan (DWP) for FY01 is complete, and scheduled for approval on September 26. ISMS Program responsibility will be transitioned to the QS&H Department Manager for the next fiscal year.*
- *Two BHI personnel have been temporarily assigned to the RL ISM Opportunities for Improvement Closure Team. This team's purpose is to support RL in the closure of all the Opportunities for Improvement identified in their ISM Verification Report (DOE/RL02000-47) by September 15, 2000. This was validated by an independent review team on September 19-20, and the efforts of the ISM Closure Team were found very comprehensive and complete. Both BHI personnel have been asked to stay with the long-term corrective action team on a part-time basis to assist the newly-formed RL Integrated Management System (RIMS)/ISM Long-Term Corrective Action Team through December 2000.*

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

Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 9/1/99 through 8/31/00

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



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

August Conduct of Ops Issues:

Lock and Tag Issues:

Condition Description: *The "work document" block of the Lock and Tag record sheet and Danger Do Not Operate tags contained terminology not recognized by BHI-FS-01 Vol.1, procedure 1.13.*

Corrective Action Plan: *The item was corrected on the spot, the Facility Representative documented it in a surveillance and no report was required.*

Green

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

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

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ENVIRONMENTAL RESTORATION
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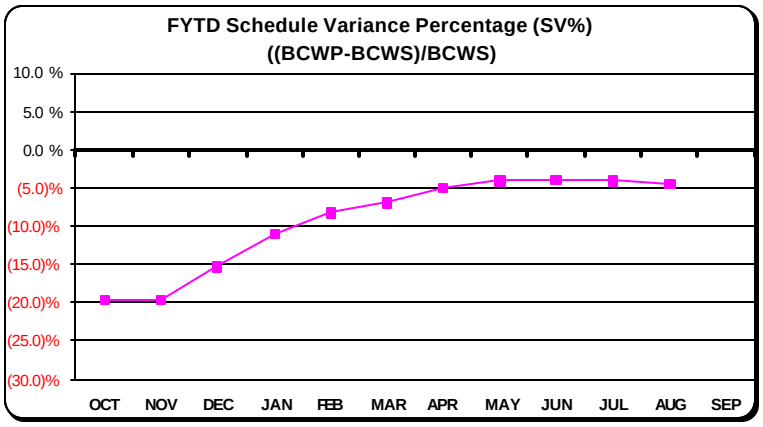
TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):

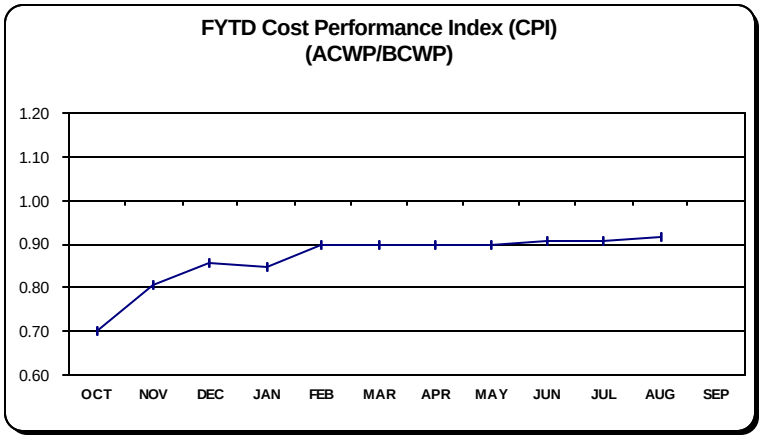


Green

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	12,681	10,838	21,445
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497	12,040	9,946	
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	76,969	92,159	104,317	117,089	129,769	140,607	162,052
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516	124,556	134,502	
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,690)	(4,298)	(4,572)	(5,213)	(6,105)	
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%	-4.1%	-3.9%	-4.0%	-4.3%	

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	10,681	10,282		
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497	12,040	9,946		
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,817	102,294	112,975	123,257		
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516	124,556	134,502		
CV	3,521	3,574	4,241	6,811	5,979	7,132	8,892	10,202	10,222	11,581	11,245		
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90	0.90	0.91	0.91	0.92		
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,817	102,294	112,975	123,257	141,170	151,124
Yr End Budget Variance	1,967	3,638	4,793	5,074	5,521	5,482	6,206	7,693	8,781	10,679	10,929		

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

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

FY 2000 PERFORMANCE
FYTD AUGUST 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	30,501	26,270	25,601	21,435	-669	-2.5%	4,166	16.3%	0.84	25,787
ER03 300 Area R/A	3,157	6,676	6,378	6,145	4,831	-233	-3.7%	1,314	21.4%	0.79	5,242
ER04 ER Waste Disposal	16,146	20,547	18,852	18,912	16,755	60	0.3%	2,157	11.4%	0.89	18,630
RA-Subtotal	**46,667**	**57,724**	**51,500**	**50,658**	**43,021**	**-842**	**-1.6%**	**7,637**	**15.1%**	**0.85**	**49,659**
ER02 200 Area R/A	3,534	3,592	3,517	3,473	2,340	-44	-1.3%	1,133	32.6%	0.67	2,481
ER08 GW Management	19,394	25,736	20,939	19,086	18,489	-1,853	-8.8%	597	3.1%	0.97	25,513
VZ01 GW/VZ	11,325	11,276	10,379	9,437	8,953	-942	-9.1%	484	5.1%	0.95	11,079
GW/VZ-Subtotal	**34,253**	**40,604**	**34,835**	**31,996**	**29,782**	**-2,839**	**-8.1%**	**2,214**	**6.9%**	**0.93**	**39,073**
ER06 D&D	8,446	16,771	14,297	14,090	13,799	-207	-1.4%	291	2.1%	0.98	16,560
DD-Subtotal	**8,446**	**16,771**	**14,297**	**14,090**	**13,799**	**-207**	**-1.4%**	**291**	**2.1%**	**0.98**	**16,560**
ER05 S&M	12,291	14,347	12,981	12,188	11,814	-793	-6.1%	374	3.1%	0.97	13,999
ER07 Long-Term S&M	47	46	40	46	39	6	15.0%	7	15.2%	0.85	41
SM-Subtotal	**12,338**	**14,393**	**13,021**	**12,234**	**11,853**	**-787**	**-6.0%**	**381**	**3.1%**	**0.97**	**14,040**
ER10 ERC PM&S	27,597	26,731	21,638	21,318	20,533	-320	-1.5%	785	3.7%	0.96	25,964
ER10 RL PM&S	5,800	5,828	5,316	4,206	4,269	-1,110	-20.9%	-63	-1.5%	1.01	5,828
PM-Subtotal	**33,397**	**32,559**	**26,954**	**25,524**	**24,802**	**-1,430**	**-5.3%**	**722**	**2.8%**	**0.97**	**31,792**
GRAND TOTAL	**135,101**	**162,051**	**140,607**	**134,502**	**123,257**	**-6,105**	**-4.3%**	**11,245**	**8.4%**	**0.92**	**151,124**

Green

**CPI = ACWP/BCWP*

Cost/Schedule Status:

Cost Variance Summary

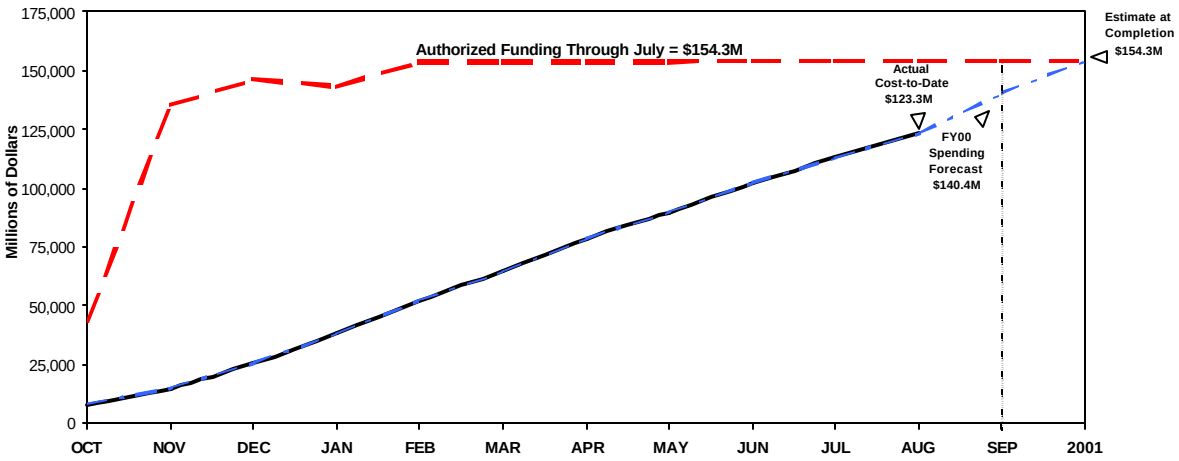
At the end of August, the ER Project had performed $134.5M worth of work, at a cost of $123.3M. This results in a favorable cost variance of $11.2M (+8.4%). The positive cost variance is attributed to labor efficiencies in ERDF cover design and construction/transportation underruns, utilization of more efficient asbestos abatement methods (asbestos and piping removed/disposed concurrently), savings in soil sampling and analyses by using local laboratory and onsite resources, F Area remediation savings in site preparation and reallocating resources between the F and H Areas, savings in Landfill 1A/1B remediation (such as less Level B protection required than anticipated), efficiencies learned in prior work applied to Gable Mountain and B Pond test pit trenching, fewer resources utilized than planned for GW/VZ S&T and Characterization of Systems, significantly lower F and DR Reactor ISS sample analysis costs than planned due to utilizing larger data groups (economies of scale), underruns on B Plant S&M and Radiation Area Remedial Action (RARA) stabilization from work efficiencies, and FY99 year-end accrual reversals.

Schedule Variance Summary

The ER Project is $6.1M (-4.3%) behind schedule through August. The negative schedule variance is attributed to remediation backfill delays pending resolution of differing chromium sample laboratory results, late start of ISRM injections/withdrawals due to delay in evaporation pond completion, GW/VZ Characterization of Systems delayed due to resource availability, waste disposal delayed at the 233-S Decommissioning Project pending regulator approval of the waste disposal plan, B Reactor roof repair delayed by late delivery of scaffolding and crane (recoverable), initiation of approved Superstretch work which will continue into the next fiscal year (carryover workscope), and late billings for RL 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			8,188	14,976	25,705	38,170	52,341	64,540	78,577	89,817	102,294	112,975	123,254			
2	Current Monthly EACs			8,188	6,788	10,729	12,465	14,171	12,199	14,037	11,240	12,477	10,681	10,279	16,916		
3	Cumulative EAC			8,188	14,976	25,705	38,170	52,341	64,540	78,577	89,817	102,294	112,975	123,254	140,170	10,953	151,123
	SEPTEMBER FY2000 APPROVED BCP'S																
4	ER05	SM	BCP-20285	Canyon Roof Repair - Additional Scope											0	183	183
5	ER08	GW	BCP-20251	GW Management Scope Deletions											(380)	0	(380)
6	ER01	RA	BCP-20280	100-FR/100/HR In-Scope Deletions/Givebacks											(128)	0	(128)
7	ER01/04	RA	BCP-20287	Accelerate F Area/Defer H Area Remedial Action											(7)	0	(7)
8	ER10	PM	BCP-20286	Hanford Wild Fire/Other Related Costs											0	93	93
9	ER06	DD	BCP-20245	Brokk 330 Procurement for F Rx Fuel Storage Basin Cleanout											0	357	357
10	Subtotal Approved Scope Changes														(515)	633	118
	FY2000 PENDING BCP'S																
11	ER10	PM	BCP-20257	FY1996 Final Site Rebill for ERC											(130)	0	(130)
12	ER10	PM	Allowance for Legal Adjustments												1,200	0	1,200
13	ER02	GW	200 Area Assessment (FY00 Funding Carryover; FY01 Work Scope)												0	2,000	2,000
14	ER08	GW	BCP-20XXX	RCRA Well Drilling ($243 in Sept. EAC will be carryover)											(243)	243	0
15			Amount EAC Exceeds Funding												(49)	0	(49)
16	Subtotal August FY2000 Approved BCPs + Pending BCPs														263	2,876	3,139
17	Current Monthly EAC + September FY2000 Approved BCP's & Pending BCP's			8,190	6,788	10,729	12,465	14,171	12,199	14,037	11,240	12,477	10,681	10,279	17,179		-
18	Cumulative EAC + September FY2000 Approved BCP's & Pending BCP's			8,188	14,976	25,705	38,170	52,341	64,540	78,577	89,817	102,294	112,975	123,254	140,433	13,829	154,262

PERFORMANCE OBJECTIVES:

See following individual Project sections.

KEY INTEGRATION ACTIVITIES:

BHI teamed with site contractors to support DOE-RL in development of "Schedule Options Study" and provided support to DOE-RL in the restructuring of the Hanford Site Work Breakdown Structure. BHI supported both the River Corridor and Central Plateau baseline teams, and supported Senior Management Retreat with briefings on the 200 Remedial Action and 100 Area River Corridor packages.

Green

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-13-25, Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan, due 12/31/00.

Green

Tri-Party Agreement Milestone M-13-00K, Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan, due 12/31/00.

Tri-Party Agreement Milestone M-16-27A, Complete 100-HR-3 Phase I, ISRM Barrier Emplacement, due 12/31/00.

Tri-Party Agreement Milestone M-24-47, Install 4 Additional Wells at SST WMA T, due 12/31/00.

Tri-Party Agreement Milestone M-24-48, Install 4 Additional Wells at SST WMA TX-TY, due 12/31/00.

Tri-Party Agreement Milestone M-24-00L, Install RCRA Groundwater Monitoring Wells Up to 50 in CY 2000, due 12/31/00.

Richland Operations Office

Environmental Restoration

Environmental Management Performance Report

Section B - River Corridor Information

October 2000

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

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 August.
All other data as of September 21, 2000 (unless otherwise noted).**

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: *RAWD*

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations: *ERDF leachate was transferred to the 200 Area Effluent Treatment Facility (ETF) using the ZP cross-site transfer pipeline. Inaccuracies were discovered with the ERDF flow meter, and it will be replaced or repaired prior to the next transfer to ETF.*

Delisting leachate sampling was conducted. A composite sample was collected from the ERDF crest pads that are currently in operation.

The ERDF queue slab repair is expected for completion by the end of September.

The interim cover is being installed on ERDF cells #1 and # 2. The installation will be complete by September 30. The interim cover will consist of a vapor barrier covered with fill dirt and native vegetation.

During August, shipments totaling 45,980 metric tons (50,685 tons) of contaminated waste were transported to the ERDF. 549,643 metric tons (605,881 tons) have been received in FY00 (2% more than planned). To date, 2,276,628 metric tons (2,509,556 tons) of material have been received and placed in the disposal facility (1% more than planned).

100 B/C Area Remediation: *The Request for Proposal (RFP) in support of 100 B/C Area pipeline remediation work was sent to prospective bidders on August 23. Bids are due on September 29.*

100 D Area Remediation: *Backfill operations of the Group 2 waste sites (DR high-priority, near-river sites) and pipeline segments approved for backfill have been completed. 100 D Area excavation activities were complete as of July. Site contouring of waste sites 116-D-7 and 116-DR-9 has also been completed. The northern section of the north pipeline is on hold pending final laboratory sampling results for chromium. Additional samples have been collected for independent analysis. Backfill was also completed on waste sites 116-DR-4, 116-DR-6, and 100-D-12.*

Green

100 F Area Remediation: *Excavation and shipping of contaminated soils from the 116-F-14 Retention Basin continues. Debris encountered included electric motors, pipe, structural steel, etc.*

Overburden removal of the 1.5-meter (60-inch) diameter 100 F Area pipelines north of the 116-F-14 Retention Basin is progressing. The 3-meter (10-foot) circumferential torch cuts also began which will allow easier removal and disposal. Two internally contaminated small diameter (less than 0.1 meter [4 inches]) steel pipelines were encountered and removed during the overburden removal of the 0.9-meter (36-inch) north outfall pipeline.

The wire-line retrieval sampler technology deployment was initiated at the 126-F-1 Ash Pit. This technology utilizes a cone penetrometer. The technology deployment will support closeout verification sampling for the south portion of the ash pit.

100 H Area Remediation: *All variance and confirmation sampling for the 100 H Area excavations was completed on August 24. Preliminary data from the 100 H Area pipeline remediation indicates elevated contamination levels. The source of the contamination is currently being investigated. Additional excavation may be required.*

ACCOMPLISHMENTS continued: *RAWD*

100 N Area Remediation: *Excavations continued at the 116-N-3 crib/trench. Elevated contamination levels are being found as different areas of the 116-N-3 crib/trench are excavated. The project is regularly shipping containers that average 5 to 6 mrem/hr on the accessible portions of the loaded containers, with containers occasionally averaging as much as 8 mrem/hr. Dose rates on contact of soil (in the excavating bucket) have increased to as high as 20 mrem/hr at certain locations. All employees working in radiological areas are issued supplemental dosimeters. Individual exposures are entered into a database on a daily basis to track and trend. Rad Con Engineering is continuing to monitor and review the data and is recommending changes to work practices to reduce exposures.*

The 116-N-1/UPR-100-N-31 final design package was signed and issued on August 31.

100 Burial Ground Record of Decision (ROD): *Revisions were made to the 100 Area Burial Ground Focus Feasibility Study (FFS) to reflect public comments that have been received.*

Barrier analysis discussions are underway to support a potential startup of the 118-B-1 Burial Ground remediation. Efforts are focusing on a design/contract/mobilization streamline approach.

300 Area Remediation: *The 300-FF-1 excavation contractor demobilization was completed on August 4. All laboratory data were received from verification samples recently taken at the South Process Pond and Landfills 1A, 1B, and 1D located in the 300 Area. Data results indicate that all 300-FF-1 ROD cleanup levels were met for all contaminants of concern. Waste sites were downposted from contaminated areas (CA) to soil contamination areas (SCA). Final downposting will occur when the CVPs are approved.*

Post excavation topographical surveys and proposed regrading plan submittals were received and are currently being reviewed.

Proposals to treat the 618-4 Burial Ground uranium metal/oil drummed waste were received on August 15. Technical review of these proposals began on August 16.

300 Area Assessment: *The 300-FF-2 Operable Unit FFS and Proposed Plan 30-day public comment period began on July 3. The public comment period will extend through September 5, based on a stakeholder request. A Data Quality Objective (DQO) meeting was held for the 300-FF-2 Operable Unit distribution coefficient (K_d) and leachability study during the last week of August.*

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: *Efforts are continuing to support clean up verification for waste minimization volumes.*

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: *The Environmental Protection Agency (EPA) is working toward a September 25 signing of the Record of Decision.*

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

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

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

- ***TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date
M-15-23B	*Submit 300-FF-2 Focus Feasibility Study (FFS) and Proposed Plan for Regulator Review*	*11/30/99*	*11/22/99 (A)*
M-15-00B	*Complete all 300 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules*	*12/31/99*	*11/22/99 (A)*
M-16-92B	*ERDF Cells 3 & 4 Ready to Accept Remediation Waste*	*12/31/99*	*12/09/99 (A)*
M-15-00A	*Complete all Remaining 100 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules (100-KR-2, 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6)*	*12/31/99*	*12/21/99 (A)*
M-16-08B	*Complete Remediation and Backfill of 19 Waste Sites in the 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area*	*3/31/00*	*2/25/00(A)*
M-16-13A	*Initiate Remedial Action for 100-FR-1 Operable Unit*	*9/29/00*	*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*	*9/30/01 (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*	*2/25/05 (F)*

Green

**Per regulator recommendations, 300-FF-1 backfill/regrade will be deferred while further evaluation of the uranium cleanup level for the 300-FF-2 Operable Unit (OU) is determined. A TPA change package was submitted to the regulators on September 8 proposing a revised completion date of 9/30/01.*

***Unrecoverable due to funding constraints. B/C pipeline RFP was issued on August 23, and bids are due on September 29. Based on bid proposals received and negotiations with the regulators, a TPA change package will be prepared.*

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *RAWD*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*100/300 Area waste excavation, disposal and backfill/regrade.*	*Baseline work is projected to be completed per Performance Incentive (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*	*43* [a]	*42* [a]	*42*
100 Area Burial Ground Assessments	*0*	*46*	*47*	*47*	*47*
300-FF-2 Assessments	*119*	*119*	*119*	*119*	*119*
Other Assessments	*2*	*2*	*2*	*2*	*2*
Tons	*389K*	*N/A*	*653K* [b]	*642K* [b]	*606K*

Green

[a] *Waste site 300 FBP will be deferred by BCP-20288. This site is a probable rejected site that will not require remediation.*
[b] *JA Jones and 600-23 (Superstretch work) will not be completed until FY01.*

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-20050)		*$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) Additional Plumes at 100-DR (BCP-20215)		*$101.1K*
S/Total Remedial Action Stretch Goals:	***$4,560.0K***	***$3,751.2K***

Yellow

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*	*$707.1K*
(3) Other Remedial Actions	*$1,395.0K*	*$0.0K*
S/Total Remedial Action Superstretch Goals:	***$3,650.0K***	***$1707.1K***

Red *

Green

Red **

**Status: BCP-20270 endorsed by DOE-RL Assistant Manager for Environmental Restoration & Waste Management (AMEW) for $1,707.1K on August 10.*

***Efficiencies applied to Superstretch projects in Groundwater Management and Decommissioning Projects.*

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	*26,270*	*25,601*	*-669*
ER03 300 Area Remedial Actions	*6,378*	*6,145*	*-233*
ER04 ER Waste Disposal	*18,852*	*18,912*	*60*
TOTAL Remedial Actions	***51,500***	***50,658***	***-842***

Green

PBS-ER01 – 100 Area Remedial Action
*Schedule Variance = -**$669K; -2.5%** [Last Month: -$67K; -0.3%]*

Cause: *100-DR north pipeline confirmation sampling behind schedule due to design document preparation delays; start of DR north pipeline backfill delayed pending resolution of differing chromium lab results; efficiencies allowed Superstretch remediation sites (JA Jones and 600-23) to be initiated in FY00, but major work activities are in FY01 (planned carryover).*

Resolution: *Confirmation sampling will be carried over for completion in early FY01.*

PBS-ER03 – 300 Area Remedial Action
*Schedule Variance = -**$233K; -3.7%** [Last Month: -$192K; -3.0%]*

Cause: *Procurement package for drum disposal is behind schedule due to additional evaluation time requested by the prospective bidders. 300-FF-1 verification packages on hold pending regulator determination of format revision.*

Resolution: *Project unable to recover procurement delay. RL working with regulators on package requirements; forecast carryover.*

PBS-ER04 – Environmental Restoration Waste Disposal
*Schedule Variance = +**$60K; +0.3%** [Last Month: -$264K; -1.5%]*

Cause: *Receipt of waste tons is progressing ahead of schedule; installation of interim cover started later than planned.*

Resolution: *None required, cover installation will be completed prior to end of fiscal year.*

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

- ***Cost:***

Remedial Action & Waste Disposal Project	BCWP $K	ACWP $K	Variance $K
ER01 100 Area Remedial Actions	*25,601*	*21,435*	*4,166*
ER03 300 Area Remedial Actions	*6,145*	*4,831*	*1,314*
ER04 ER Waste Disposal	*18,912*	*16,755*	*2,157*
TOTAL Remedial Actions	***50,658***	***43,021***	***7,637***

Green

PBS-ER01 – 100 Area Remedial Action
Cost Variance = ***+$4166K; +16.3%*** *[Last Month: +$4449K; +18.6%]*

Cause: *More efficient asbestos abatement methods utilized (asbestos and piping removed and disposed concurrently) in 100 D and H Areas; savings in sampling and analyses by using local laboratory and on-site resources; F Area savings in site prep and reallocating resources between F and H Areas; labor savings on B/C backfill activities; lower costs for 116-N-1 design.*

Resolution: *Savings are being used to perform other remediation work.*

PBS-ER03 – 300 Area Remedial Action
Cost Variance = ***+$1314K; +21.4%*** *[Last Month: +$1384K; +22.6%]*

Cause: *Savings in Landfill 1A/1B remediation such as less Level B protection required than anticipated; FY 1999 accrual reversal in South Process Pond remediation.*

Resolution: *Savings are being used to perform other remediation work.*

PBS-ER04 – Environmental Restoration Waste Disposal
Cost Variance = ***+$2157K; +11.4%*** *[Last Month: +$1899; +10.9%]*

Cause: *ERDF cover design and construction closeout completed with fewer resources than planned, transportation cost efficiencies from mild winter; and FY99 over accrual.*

Resolution: *Savings are being used to perform other remediation work.*

REGULATORY ISSUES: *RAWD*

Tri-Party Agreement Milestone M-16-26B: *An outyear milestone, M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the B/C, DR, and HR Operable Units" by February 28, 2001, will be missed due to lack of funding in FY99 and FY00 for 100 B/C pipeline remediation activities and arsenic issue at 100 H Area.*

Green

Status: *The 100 B/C pipeline remediation RFP was distributed to potential bidders on August 23. Bids are due September 29. Based on bid proposals received and negotiations with the regulators, a TPA change package will be prepared.*

Tri-Party Agreement Milestone M-16-26C: M-16-26C: *"Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit" by May 31, 2001, will be missed due to unanticipated elevated arsenic levels encountered during confirmation sampling and verification activities and additional plumes.*

Green

REGULATORY ISSUES continued: *RAWD*

Status: *After completing additional arsenic sampling throughout the 100 Areas, EPA and Ecology agreed to use the State of Washington background value of 20 mg/kg for arsenic. After verification sampling results have been received, a TPA change package will be prepared.*

Tri-Party Agreement Milestone M-16-03E: *Regulators are reevaluating the uranium cleanup level for the 300 Area. The approved 300-FF-1 ROD requires residual soil to be below 15 mrem/year in an industrial land use setting. Currently, a leachability study is underway to assure protection of groundwater at 300-FF-2. If lower cleanup levels are determined to be appropriate for 300-FF-1, additional excavation may be necessary. This development could jeopardize the scheduled December 31, 2000, completion date for TPA 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."*

Green

Status: *In accordance with regulator recommendations, backfill/regrade of 300-FF-1 will be deferred until 300-FF-2 negotiations are completed and the uranium cleanup standard is established. A TPA change request that proposes a revised completion date of September 30, 2001 was forwarded to the regulators on September 8.*

Revise 300 Area CVP's Content and Format: *EPA has suggested that the content and format of four 300-FF-1 closeout verification packages (CVP) that are currently being produced, be changed to more closely resemble the 100 Area CVPs. The suggested changes require work beyond the current DWP scope. All work on CVPs is on hold awaiting EPA's recommendations. If RL concurs with the proposed changes, additional funding and schedule will be required to complete the work.*

Green

Status: *RL and EPA will determine course of action.*

100 D Area Backfill: *Backfill concurrence for the remaining north segment of the 100-DR north pipeline continues to be delayed pending resolution of a chromium issue. Additional samples have been collected and independently analyzed by three labs with conflicting results. Ecology prefers that another qualified lab be utilized for further analysis.*

Green

Status: *A fourth qualified lab will be selected to perform further analysis. Based on results, a strategy will be developed to reach final resolution of this issue.*

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*

None identified at this time.

Decommissioning Projects (D&D)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end August.
All other data as of September 21, 2000 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: *D&D*

F and DR Reactor Interim Safe Storage (ISS): *Demolition activities continued at the F and DR Reactor facilities as they are prepared for safe storage. In August, demolition and loadout were completed, along with completion of concrete and soil sampling, in the F Reactor valve pit and solid feeds area. The first sampling event was completed in support of the F Reactor Stage I FSB demolition. By using the GeoProbe, the lower boundary of the clean fill was located in the FSB. The GeoProbe is a technology that uses a probe inside a small diameter tube to measure and distinguish between naturally occurring and man-made gamma radiation in the soil. It is less expensive and faster than other sampling methods.*

At the DR Reactor, several activities were completed during August. Some of those activities included completing backfill of the north effluent pipe tunnel and south reactor tunnel; completing pipecutting of the south reactor effluent pipe, and removing the south reactor exterior debris and stairway; and completing side slope sampling in the FSB, and concrete and soil sampling in the valve pit area.

D and H Reactor ISS: *Preparations for ISS of D and H Reactors are underway. In August, biological cleanup was completed at the D Reactor. The D and H Reactor Engineering Evaluation/Cost Analysis (EE/CA) documents were transmitted to RL on August 16. Walkdowns of the D and H Reactors were completed for DWP planning. Waste designation DQO walkthroughs were also completed at both reactors.*

B Reactor: *Hazard mitigation activities continued at B Reactor. Copies of the B Reactor Safe Storage Phase II Feasibility Study, hazard mitigation engineering reports, and cost estimating reports were transmitted to the B Reactor Museum Association on August 8.*

Green

108-F Biological Laboratory: *The 108-F Biological Laboratory D&D Project Closeout Report was transmitted to RL on August 31. By utilizing FY98 and FY99 cost savings, decommissioning of the 108-F building was accelerated from the outyears, with physical demolition completed in September 1999 (five months ahead of schedule). Submittal of the closeout report formally completes the performance measure for this facility.*

233-S Plutonium Concentration Facility Decommissioning Project: *Substantial progress continues to be made at the 233-S facility even with the confined workspace environment and contamination hazards that are encountered during each entry. There was an average of 230 entries per month into the 233-S facility since January. Since 233-S decommissioning commenced 35 months ago (1,066 days), work has progressed safely, with no lost workdays occurring. In August, 233-S facility activities included:*

- *Completion of fixative application in the L-18 cubicle of the process hood and the roof high bay areas.*
- *Removal of piping, valves, and canisters from the north, west and east ends of the Instrument Loft.*
- *Removal of the Plutonium Sampler on the Viewing Room third floor.*
- *Cut and removal of 11 pipes from the Viewing Room south end trench.*
- *Removal of the Viewing Room roof area small supply duct.*
- *Preparation of the Loadout Hood section and a small section of the 233-SA for removal.*
- *Shipment of 10 burial boxes (1.2 x 1.2 x 2.4 meters [4 x 4 x 8 feet]) to ERDF for disposal.*

SAFETY/ISMS/CONDUCT OF OPERATIONS: *D&D*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *D&D*

None identified at this time.

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

None identified at this time.

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

- ***DOE Secretarial:***

None identified at this time.

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

- ***DOE EM Performance Agreement:***

None identified at this time.

- ***TPA Milestones:***

Milestone	Description	Due Date	(F)/(A) Date
***M-93-05**	*Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment*	*6/30/00*	*7/10/00 (A)*

Green

**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. An EPA letter received on July 25 documented comments on the content of the document.*

***Status:** RL responded to EPA's comments on August 1. The letter reaffirmed RL's commitment to deliver a draft Engineering Evaluation/Cost Analysis (EE/CA) to EPA by January 31, 2001. Support will also be provided with the public comment period and through the approval of the Action Memorandum. EPA concurred that all requirements for TPA Milestone M-93-05 and EPA's comments had been addressed.*

- ***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	*233-S Decommissioning*	*All PI work is projected to be completed per PI requirements.*
	224B Decommissioning	*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 [a]*	*4 [a]*	*4 [a]*

Green

[a]116-D, 116-DR, 119-DR (108-F Final Report completed in 8/00)

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

Red*

**Status: Requires funding support outside of ER to execute work. Presentation made to Keith Klein on 9/20/00 outlining options and costs for public access via bike path and boat dock.*

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

- ***Schedule:***

Decommissioning Projects	BCWS $K	BCWP $K	Variance $K
ER06 Decontamination & Decommissioning	*14,297*	*14,090*	*-207*
Total D&D	***14,297***	***14,090***	***-207***

Green

PBS-ER06 – Decontamination and Decommissioning
Schedule Variance = ***-$207K; -1.4%*** *[Last Month: -$129K; -1.0%]*

Cause: *233-S decommissioning: disposal of duct delayed pending approval of asbestos abatement plan.*

Resolution: *Asbestos removal plan has been approved. Fixative has been applied to contaminated areas. Fall protection has been installed. Exhaust duct removal has been initiated with completion forecasted for September 30.*

- ***Cost:***

Decommissioning Projects	BCWP $K	ACWP $K	Variance $K
ER06 Decontamination & Decommissioning	*14,090*	*13,799*	*291*
TOTAL D&D	***14,090***	***13,799***	***291***

Green

PBS-ER06 – Decontamination and Decommissioning
Cost Variance = ***+$291K; +2.1%*** *[Last Month: +$476K; +3.6%]*

Cause: *F and DR ISS sample analysis costs are significantly lower than expected due to utilizing larger data groups (economies of scale).*

Resolution: *Savings are being 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 Reactor.*

Green

Status: *Initial discussions with the regulators have begun which should lead to resolution in the near future. This will need to be discussed as part of RL's 100 Area acceleration vision.*

REGULATORY ISSUES continued: *D&D*

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. Issues/impacts were presented to the Results Management Team (RMT). Based on information provided, the Field Support organization was directed to prepare a procurement plan for purchase of a new excavator. Procurement is evaluating a path forward for purchase of the equipment. $1.2M for purchase of an excavator and shear is included on the FY01 supplemental funding list.*

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 August.
All other data as of September 21, 2000 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: *PM&S*

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Compliance and Quality Programs: *Ecology conducted a compliance inspection of the Hexone Storage and Treatment Facility as a follow-up to a previous compliance inspection conducted in May. No issues were identified.*

Safety and Health: *Comments were provided to RL on a standardized Hanford Site policy addressing release of materials. This activity was coordinated with Pacific Northwest National Laboratory (PNNL) and other Hanford Site contractors. This policy will address the DOE Secretary's moratorium on the release of contaminated metals.*

ERC Safety and Health personnel sent a prototype support vest for use with Powered Air Purifying Respirator (PAPR) blowers to Mine Safety and Appliance (MSA) for evaluation. If approved by MSA, this new method of supporting PAPR's will eliminate the problem with potential contamination of the belt loop.

ERC Safety and Health Emergency Preparedness personnel participated in a site-wide Emergency Preparedness and Central Environmental Committee meeting to finalize requirements for "Implementing a Contingency Plan." RL and Ecology, along with the Site contractors, agreed on a path forward. This will result in revisions to the Hanford Emergency Management Plan and BHI Emergency Action Plans.

The Radiological Counting Facility move was completed from the 100 N Area to the 300 Area.

Green

PROGRAM AND PROJECT SUPPORT:

External Affairs: *As requested by RL, a special meeting was held with the Hanford Advisory Board/Environmental Restoration (HAB/ER) Committee on August 10. RL's vision, "Done in a Decade", was presented, and Committee members were requested to provide comments on the draft information. Supporting presentations were also made on the 100/600 Areas River Corridor Accelerated Restoration Proposal and the 300 Area Accelerated Closure Project Plan.*

Procurement and Property Management: *A Request for Proposal (RFP) was issued for the purchase of a large excavator with attachments. BHI intends to use a new procurement tool known as a "reverse auction" to obtain the lowest possible price for this equipment. A reverse auction utilizes the Internet to connect all potential bidders at one time. The site is opened to the potential bidders at a specific time, and the lowest bid price is shown to all bidders. The bidders are allowed to revise their pricing anytime during the term of the auction. The auction normally lasts one to two hours, and award is made based upon the lowest price posted during the auction. The bidders are pre-qualified prior to the on-line auction participation.*

Document and Information Services: *The Data and Records Tracking System (DARTS) data entry, scanning, and DocsOpen profile were completed for approximately 20,000 radiological survey records. This FY99 carryover activity is now complete.*

ACCOMPLISHMENTS continued: *PM&S*

ENGINEERING AND TECHNOLOGY:

Technology Applications: *Technology Applications personnel supported the successful robotic deployment for the Canyon Disposition Initiative (CDI) drain line characterization.*

Support was also provided in response to a DOE-wide data call for potential feeds to be used for a steel mill study. Data was compiled that provided the quantity of steel expected from reactor decommissioning at the Hanford Site.

Environmental Technologies: *ERC's five-year sampling projections were included in the site-wide sample projection roll up. The ERC projections show a 20% increase in samples planned for FY01.*

The Hanford Site 1999 Environmental Report was completed. The document was written in collaboration with PNNL and other site contractors.

100% field verification was completed for the ERC's chemical inventory database information.

Waste Management/Transportation: *Conducted Waste Management Awareness Training to ERC senior management.*

PLANNING AND CONTROLS:

FY01-03 Detailed Work Plan (DWP) Management Reviews were held during August for each of the ER Projects. Regulators, stakeholders, HQ/RL management, and BHI personnel were in attendance. On August 29, a DWP Recap meeting was held to finalize any outstanding issues. The ERC FY01-03 DWP is expected to be signed on September 26.

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*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

- ***TPA Milestones:***

None identified at this time.

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *PM&S*

None identified at this time.

PERFORMANCE MEASURES: *PM&S*

BHI has identified four technology deployments for FY00. A list of planned/committed FY00 technology deployments was transmitted to RL on January 27. Eight technology deployments have been completed through August.

Technology Deployment	PBS	Planned Date	(F) / (A) Date
Small Diameter Geographical Logging System (ROI Funded)	*RL-ER01*	*10/99*	*10/99 (A)*
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*	*09/00 (F) [a]*
3-D Visual and Gamma Ray Imaging System	*RL-ER06*	*06/00*	*07/00 (A) [b]*
Liquid-Level Detection Technology (Thermography and/or Ultrasonics)	*RL-ER05*	*09/00*	*[c]*
In Situ Object Characterization Survey (ISOCS) System	*RL-ER06*	*09/00*	*07/00 (A) [d]*
Remote Drain Line Characterization Technology	*RL-ER05*	*[e]*	*08/00 (A)*
Overview Video System (OVS)	*RL-ER05*	*[e]*	*01/00 (A)*
Passive Soil Vapor Extraction (SVE)	*RL-ER08*	*[e]*	*10/99 (A)*
Surveillance and Measurement Model 935	*RL-ER01*	*[e]*	*09/00 (F)*
Wireline Cone Penetrometer	*RL-ER01*	*[e]*	*08/00 (A)*

Green

[a] All cells have been accessed. The Brokk™ equipment has completed acceptance testing and concrete coring of cells has commenced.
[b] Equipment procurement delay. Not needed at CDI, but is being used by D&D ISS.
[c] Technology not needed.
[d] This deployment was identified as a planned (not committed) deployment for FY00, and is currently being used by D&D ISS. Additional deployments may occur at 233-S and 221-U facilities.
[e] New EM-40 successful technology deployments which were not in the original FY00 deployment plan.

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	*21,638*	*21,318*	*-320*
ER10 RL Program Management & Support	*5,316*	*4,206*	*-1,110*
TOTAL PM&S	***26,954***	***25,524***	***-1,430***

Green

PBS-ER10 – Program Management and Support
Schedule Variance = ***-$1430K; -5.3%*** *[Last Month: -$1217K; -4.9%]*

Cause: *Late billing on RL 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	ACWP	Variance
	$K	$K	$K
ER10 ERC Program Management & Support	*21,318*	*20,533*	*785*
ER10 RL Program Management & Support	*4,206*	*4,269*	*-63*
TOTAL PM&S	***25,524***	***24,802***	***722***

Green

PBS-ER10 – Program Management and Support
Cost Variance = ***+$722K; +2.8%*** *[Last Month: +$583K; +2.5%]*

Cause: *Fewer special requests and audits have resulted in savings; baseline and strategic planning staff savings; and credit received as result of the FY96 final rebill cost.*

Resolution: *A BCP will be prepared in September. Savings are being used to perform other remediation work.*

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

October 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

E0008106.1

Groundwater/Vadose Zone Integration Project (GW/VZ)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end August.
All other data as of September 21, 2000 (unless otherwise noted).

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

ACCOMPLISHMENTS: *GW/VZ*

GROUNDWATER/VADOSE ZONE (GW/VZ) INTEGRATION PROJECT:

Public Involvement: *The Integration Project submitted a quarterly public involvement document "look ahead, look back" in support of the Hanford Advisory Board (HAB) Public Involvement Committee and conducted several open project meetings.*

Science and Technology: *Field activities were completed at the Vadose Zone Transport Field Study site. Data interpretation was initiated.*

System Assessment Capability: *The testing of the Coupled, Fluid, Energy, and Solute Transport (CFEST) modification was completed, and is currently being evaluated for use in the SAC, Rev. 0.*

GROUNDWATER MANAGEMENT:

In Situ Redox Manipulation (ISRM) Project: *ISRM barrier placement activities commenced in August. Chemicals were injected into seven of the ten selected wells. Withdrawal of the chemical reactive byproducts was completed in four of these wells, and three wells are currently in the process of being withdrawn. Injections will be completed by the end of September.*

Resource Conservation and Recovery Act of 1976 (RCRA) CY2000 Well Installations: *Five of the ten planned calendar-year 2000 RCRA wells have been constructed and are sample ready. The remaining wells are on schedule for completion by the end of December.*

Green

Long-Term Groundwater Monitoring: *Colloidal boroscope measurements were completed for groundwater flow velocity at the B-BX-BY Tank Farm waste management area in the 200 East Area. Draft copies of the T and TX-TY Groundwater Quality Assessment Plans were transmitted to RL and CH2M HILL Hanford Group (CHG) for final review.*

Tritium Investigation: *Installation of soil gas points was started, and soil gas was sampled at 27 locations at the 618-11 Burial Ground.*

Summary of Five Pump and Treat Systems: *All groundwater pump and treat systems operated above the planned 90% availability levels through August. Since system inception, the five pump and treat systems have processed over 4.2 billion liters of groundwater, removing approximately 4,496 kilograms of carbon tetrachloride, 187 kilograms of chromium, and 0.868 curies of strontium. Approximately 962 million liters of groundwater have been processed in FY00, removing approximately 1,092 kilograms of carbon tetrachloride, 55 kilograms of chromium, and 0.162 curies of strontium.*

100-HR-3 Pump and Treat System: *Approximately 25.8 million liters of groundwater were processed in August removing approximately 2.4 kilograms of chromium. 267.3 million liters have been processed in FY00, with 24.5 kilograms of chromium removed. Approximately 919.0 million liters of groundwater have been processed from inception to date, with 88.7 kilograms of chromium removed.*

ACCOMPLISHMENTS continued: *GW/VZ*

100-KR-4 Pump and Treat System: *Approximately 22.6 million liters of groundwater were processed in August removing approximately 2.5 kilograms of chromium. 254.5 million liters have been processed in FY00, with 30.1 kilograms of chromium removed. Approximately 779.9 million liters of groundwater have been processed from inception to date, with 98.5 kilograms of chromium removed.*

100-NR-2 Pump and Treat System: *Approximately 8.1 million liters of groundwater were processed in August, removing approximately 0.014 curies of strontium. 91.3 million liters have been processed in FY00, with 0.162 curies of strontium removed. Approximately 514.3 million liters have been processed from inception to date, with 0.868 curies of strontium removed.*

200-UP-1 Pump and Treat System: *Approximately 6.8 million liters of groundwater were processed in August with approximately 72.4 million liters processed in FY00. From inception to date, approximately 428.1 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 30.5 million liters of groundwater were processed during August, removing 104.0 kilograms of carbon tetrachloride. 276.4 million liters have been processed in FY00, with 1,091.8 kilograms of carbon tetrachloride removed. From inception to date, approximately 1.23 billion liters have been processed, with 4,496 kilograms of carbon tetrachloride removed.*

Green

200-ZP-2 Vapor Extraction System: *The 200-ZP-2 soil vapor extraction system was placed off-line for FY00, in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling has been implemented. Dense Non-Aqueous Phase Liquid (DNAPL) investigative work has been initiated. Planning is underway to initiate extending three wells in November. The Data Quality Objective (DQO) summary report has been completed, and the Description of Work is currently undergoing internal review.*

200 AREA ASSESSMENTS:

The Draft A 200-TW-1 Scavenged Waste Group Operable Unit and 200-TW-2 Tank Waste Group Operable Unit Remedial Investigation/Feasibility Study (RI/FS) Work Plan was transmitted to the regulators on August 14. This document satisfies completion of Tri-Party Agreement Milestones M-13-23 and M-13-24 that were due on August 31.

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 Reduction Oxidation (REDOX) Groundwater Remediation (PBS ER08) due September 30.

Green

Status: *Complete.*

- *16-well installations were completed on April 24.*
- *The evaporation pond was ready on July 31 for use in managing extraction wastes.*
- *Well injections began on August 1, as scheduled. As of the end of August, seven of ten wells were chemically injected. Chemical byproduct withdrawals were completed in four wells with the remaining three in progress. Injections will 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*	*8/14/00 (A)*
M-13-24	*Submit 200-TW-2 Work Plan*	*8/31/00*	*8/14/00 (A)*
M-13-00K	*Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan*	*12/31/00*	*12/20/00 (F)*
M-13-25	*Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan*	*12/31/00*	*12/20/00 (F)*
M-24-46	*Install two (2) additional wells at SST WMA S-SX*	*12/31/00*	*9/14/00 (A)*
M-24-47	*Install four (4) additional wells at SST WMA T*	*12/31/00*	*11/28/00 (F)*
M-24-48	*Install four (4) additional wells at SST WMA TX-TY*	*12/31/00*	*12/13/00 (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*	*12/13/00 (F)*
M-16-27A	*Complete 100-HR-3 Phase I, ISRM Barrier Emplacement*	*12/31/00*	*11/03/00 (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 Record of Decisions (RODs).*	*Baseline work projected to be completed per Performance Incentive (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.	*All PI requirements completed.*
	Manage groundwater plumes per interim RODs.	*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 Interwell Tracer Test (PITT) at 200-ZP-1 and 200-ZP-2***	*$706.0K*	*$414.0K **
S/Total GW – Vadose Zone Stretch Goals:	***$706.0K***	***$0K***

Yellow

**Status: BCP-20246 ($414K) was approved in July to deepen selected 200-PW-1 wells in preparation for the PITT test; work has been initiated with expected completion in FY01.*

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 Remediation of 60 Sq. Mi. of Hanford Site:		
(1) *Decommission 4 wells	*$450.0K*	*$104.0K*
(2) *Evaluate 300 wells and decommission up to 90	*$900.0K*	*$1478.0K*
S/Total GW – Vadose Zone Superstretch Goals:	***$2,100.0K***	***$1582.0K***

Red **

Green

**Status: Efficiencies identified. BCPs 20248 and 20185 were endorsed by DOE-RL Assistant Manager for Environmental Restoration & Waste Management (AMEW) on August 10 to administratively verify and decommission wells within the Columbia River Corridor.*

***Efficiencies applied to Superstretch projects in Remedial Action and Decommissioning Projects.*

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

- ***Schedule:***

GW/VZ Integration Project	BCWS	BCWP	Variance
	$K	$K	$K
ER02 200 Area Remedial Actions	*3,517*	*3,473*	*-44*
ER08 Groundwater Management	*20,939*	*19,086*	*-1,853*
VZ01 Groundwater/Vadose Zone	*10,379*	*9,437*	*-942*
TOTAL Groundwater	***34,835***	***31,996***	***-2,839***

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)
Schedule Variance = ***-$44K; -1.3%*** *[Last Month: -$60K; -1.7%]*

Cause: *A decision as to whether or not PW-2 should proceed as planned was not reached until May 26, 2000, causing a 2.5 month delay in starting the work plan.*

Resolution: *A recovery schedule has been prepared to meet the TPA milestone of 12/31/00. A portion of FY00 work scope (approx. $30K) will be carried over into FY01.*

PBS-ER08 – Groundwater Management
Schedule Variance = ***-$1853K; -8.8%*** *[Last Month: -$1937K; -10.1%]*

Cause: *Late start of ISRM injection/withdrawal due to delay in evaporation pond completion.*

Resolution: *None required. Chemical injections/withdrawals have begun, and will be completed as scheduled by end of September.*

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

Cause: *Well decommissioning workscope budgeted for FY00/FY01 Superstretch.*

Resolution: *None required. Well decommissioning is underway. Carryover is being documented.*

Cause: *Late start on tritium sample collection due to waste issues.*

Resolution: *Sample collection initiated in August. Carryover is being documented.*

Cause: *Low Level Burial Ground monitoring delayed pending resolution of burial ground boundaries and statistical approaches with regulators.*

Resolution: *RL and Ecology are discussing boundary issues and agreement is expected this fall. Carryover is projected.*

Cause: *Groundwater monitoring activities consisting of sample collection, analysis, interpretation and reporting, and hydrologic assessment are behind schedule due to resource limitations.*

Resolution: *Sampling teams working overtime when possible. Workscope will be carried over into FY01.*

PBS-VZ01 – Groundwater/Vadose Zone
Schedule Variance = ***-$942K; -9.1%*** *[Last Month: -$922K; -9.8%]*

Cause: *Field investigation at representative sites behind schedule due to delayed distribution of samples to the lab and receipt of sample analysis.*

Resolution: *Schedule is not recoverable. RPP Field Investigation Report milestone extended, project in synch with RPP schedule; carryover projected.*

Cause: *Technical resource availability delayed Characterization of Systems initiation of the deployment activity.*

Resolution: *Subcontract staff has been added to supplement existing staff, but technical resources are still not available due to other priority work; projected carryover.*

- ***Cost:***

GW/VZ Integration Project	BCWP $K	ACWP $K	Variance $K
ER02 200 Area Remedial Actions	*3,473*	*2,340*	*1,133*
ER08 Groundwater Management	*19,086*	*18,489*	*597*
VZ01 Groundwater/Vadose Zone	*9,437*	*8,953*	*484*
TOTAL Groundwater	***31,996***	***29,782***	***2,214***

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)
Cost Variance = ***+$1133K; +32.6%*** *[Last Month: +$1163K; +33.9%]*

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.*

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

Resolution: *Savings are being used to perform other remediation work.*

PBS-ER08 – Groundwater Management
Cost Variance = ***+$597K; +3.1%*** *[Last Month: +$482K; +2.8%]*

Cause: *Routine well maintenance and sample collection were less than planned due to unresolved waste issues.*

Resolution: *Savings are being used to perform other remediation work.*

PBS-VZ01 – Groundwater/Vadose Zone
Cost Variance = ***+$484K; +5.1%*** *[Last Month: +$795K; +9.4%]*

Cause: *Science & Technology and Characterization of Systems used fewer resources than planned; Expert Panel meeting completed for less than planned.*

Resolution: *Savings are being 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: *A total of 48 soil gas points have been installed, labeled, located with Geographic Information System (GIS), and sampled for the tritium investigation. These points are located around the perimeter of the 618-11 burial ground and in two transects in Energy Northwest's parking lot. Of the planned transects points, only the end and mid points were installed. Preliminary data has been received back from the University of Rochester and is currently being interpreted. Eleven existing groundwater wells have been sampled. Vertical profiling of tritium concentrations in groundwater will be completed in September for two wells. Tritium investigation workscope is on the supplemental funding list for FY01. Any FY01 workscope will be funded through efficiencies.*

200-ZP-2*: Need for enhanced characterization, enhance removal efficiency, and Dense Non-Aqueous Phase Liquid (DNAPL) investigation.*

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) for DNAPL investigation. Decision was made to proceed with the PITT test in lieu of restarting ZP-2 this fiscal year. Drilling will proceed to deepen three wells in support of the PITT and to enhance the current vapor extraction system. A preliminary cost estimate and proposal submitted by a potential contractor is currently being reviewed by a subpanel of the GW/VZ Integration Project's Expert Panel. Evaluation is to be completed by October 20. A preliminary cost estimate is also being prepared by BHI for the cost to provide support to the potential contractor. The cost estimate is scheduled for completion by October 2.*

200 Area Remedial Investigation/Feasibility Study: *Approximately 800 contaminated soil sites in the 200 Area, which have been grouped into 23 process-based operable units, are to be characterized by 2008 and remediated by 2018. $5-6M is required to meet Tri-Party Agreement milestones. A budgetary position toward assessment and cleanup of the 200 Area liquid waste sites is needed for the long term. The regulator position is to submit Tri-Party Agreement change packages for each operable unit work plan, to support enforceability in completing remedial investigations through the ROD, based on existing Tri-Party Agreement milestones.*

Yellow

REGULATORY ISSUES continued: *GW/VZ*

Status: *Tri-Party Agreement change package for the 200-CW-1, 200-CW-5, and 200-CS-1 Operable Units containing RI/FS interim milestones were approved on August 23. In addition, RL is currently working on ways to revise the existing long-term strategy for prioritizing the 200 Area assessment and remediation activities in conjunction with other site cleanup decisions. RL is also seeking to justify and identify additional funds for characterization. RL has identified $2.5M (additional authorization from other RL funding sources), and ERC has identified $2.0M (from FY00 efficiencies) for FY01 workscope. The ERC team, in conjunction with RL management, will meet with the regulators to discuss a proposed strategy for initiation of this work.*

Green

WASTE MANAGEMENT ISSUES:

- ***BioSite Notice of Correction:*** *On May 31, a Notice of Correction (NOC) letter was received by RL from Ecology. This NOC detailed the violations and corrections regarding the shipments of mixed solid wastes that contacted groundwater that contains listed waste (FY01 and FY03), and the drums of M-24 drilling waste at the BioSite.*

  Status: *RL/BHI response was issued on June 26. Requirements include (1) Issue formal notification to Rabanco and City of Richland Landfills (completed), and (2) Designation and shipment of BioSite Waste (135 drums) is forecasted to be completed by September 28.*

Green

- ***200-CW-1 IDW Waste Disposal at ERDF:*** *A request for a contained-in determination was approved for the 200-CW-1 investigation derived waste (IDW) by Ecology. Waste had to be removed from the site by July 14, as per Ecology's approved extension. Waste was shipped to ERDF, with approval from EPA. Disposal into ERDF was delayed pending either approval of the 200-CW-1 work plan by Ecology or signature of the change package.*

  Status: *A TPA change package was signed on August 23. There are 46 drums on a truck at ERDF. Approval was received from both regulatory agencies to dispose of 38 drums with a contained-in determination. BHI is awaiting approval by Ecology to dispose of the remaining 8 drums.*

Green

- ***Purgewater Secondary Waste Management:*** *There is a discrepancy in the interpretation of the Purgewater Strategy applicability. Direction was given by RL to become compliant with all land disposal restriction (LDR) requirements.*

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

Green

- ***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 were notified of a potential breach of the 216 Permit and the Purgewater Strategy. Regulatory analysis performed by FH/BHI does not support breach of the 216 Permit requirements, since purgewater management is excluded from the 216 provisions. The Unusual Occurrence was withdrawn.*

  Status: *A letter from the RL Contracting Officer's Representative (COR) is being issued to all Site contractors providing proper instructions on how to modify purgewater requirements at specific sites. Negotiations with regulatory agencies will occur in the near future to update the Purgewater Strategy.*

Green

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*

Five RCRA well installations were completed by September. This effort supported ORP in meeting one of their FY00 performance incentives.

Green

Surveillance / Maintenance and Transition Project (SM&T)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end August.
All other data as of September 21, 2000 (unless otherwise noted).

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

ACCOMPLISHMENTS: *SM&T*

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

- *Completion of KE/KW acid tank stabilization field work and issued the final report.*
- *Completion of radiological surveys and the first surveillance of the B Plant interior since the facility was transitioned to ER more than 10 months ago. There was no evidence of any degradation after 10 months with no ventilation in the facility. No entry was allowed into the facility while the ventilation system was inoperable.*
- *Initiation of the Engineering Evaluation/Cost Analysis (EE/CA) preparation for the B Reactor hazards mitigation.*
- *Identification of posting requirements for the B Reactor. A total of 22 signs were posted on the tour route.*

Canyon Disposition Initiative (CDI): *As of August, all 38 process cells have been accessed at the U Plant (221-U Building) canyon facility. In early September, remote concrete core sampling began in one of the CDI cells. Several attempts were made to obtain 6-8" core samples using the Brokk ™ concrete coring machine. However, only samples of 2" or less were achieved. Swedish technical consultants are on Site to troubleshoot and evaluate path forward.*

Characterization of the CDI drain header was also successfully completed by utilizing a robot to perform the inspection. The robotic crawler was custom designed and built by Pacific Northwest National Laboratory (PNNL) engineers. The robot traveled the equivalent of nearly three football fields to visually inspect the 61-centimeter diameter (24-inch) drain line for structural integrity, obtain radiation readings, and collect samples of contaminated materials within the line. The robot was also required to maneuver around at least 13 three- to five-centimeter diameter (one- to two-inch) pipes standing vertically in the middle of the drain line. The data will be used to determine the disposition of the five chemical processing facilities (canyons) on the Hanford Site. The robot crawler is about 1.2 meters long, 23 centimeters wide, 23 centimeters tall, and weighs about 34 kilograms (4 feet long, 9 inches wide, 9 inches tall, and weights about 75 pounds).

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: *SM&T*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *SM&T*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *SM&T*

None identified at this time.

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

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

- ***TPA Milestones:***

None identified at this time.

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *SM&T*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*Deactivation and preparation for decommission of facilities in 100/200 Areas.*	*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. Concrete sampling for CDI impacted by three weeks due to crane problems. BHI is working to complete the work by fiscal year-end. A PI change request was placed on hold by DOE pending assessment of further work progress in the sampling.*

Green

PERFORMANCE MEASURES: *SM&T*

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: *SM&T*

FY00 SM&T "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)	
Deactivate 183-N Water Treatment Plant (Phase I) (BCP-20111)	*$131.0K*	*$131.0K*	Green
Deactivate 183-N Water Treatment Plant (Phase II) (BCP-20175)	*$159.0K*	*$159.0K*	
Asbestos Abatement & Repairs (100, 200, & 300 Areas)	*$470.0K*	*$64.2K*	Yellow *
Complete the CDI Technical Work to Support the Phase III Feasibility Study	*$490.0K*	*$0.0K*	Red **
S/Total SM&T -Facility Transition Stretch Goals:	***$1,250.0K***	***$354.2K***	

**Workscope initiated; completion impacted by delay in sampling analysis.*

***Efficiencies not identified in a timely manner to support initiation and completion of work this fiscal year. Efficiencies applied to higher priority and emerging workscope.*

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

- ***Schedule:***

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance	
	$K	$K	$K	
ER05 Surveillance & Maintenance	*12,981*	*12,188*	*-793*	Green
ER07 Long-Term Surveillance & Maintenance	*40*	*46*	*6*	
TOTAL SM&T	***13,021***	***12,234***	***-787***	

PBS-ER05 – Surveillance and Maintenance
Schedule Variance = ***-$793K; -6.1%*** *[Last Month: -$433K; -3.7%]*

Cause: *B Reactor roof repair delayed by late delivery of scaffolding and crane.*

Resolution: *Schedule recoverable on roof repair and final completion will be reported in September pending completion of punchlist items.*

Cause: *Major repairs on REDOX compressor and exhaust fan delayed pending evaluation to perform the work.*

Resolution: *Required repairs/maintenance are being assessed.*

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

Resolution: *None; work is scheduled for completion in FY00.*

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $46K for FY00)
Schedule Variance = N/A

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

- ***Cost:***

Surveillance/Maintenance & Transition Project	BCWP $K	ACWP $K	Variance $K
ER05 Surveillance & Maintenance	*12,188*	*11,814*	*374*
ER07 Long-Term Surveillance & Maintenance	*46*	*39*	*7*
TOTAL SM&T	***12,234***	***11,853***	***381***

Green

PBS-ER05 – Surveillance and Maintenance
*Cost Variance = +**$374K; +3.1%** [Last Month: +$338K; +3.0%]*

Cause: *Herbicide application and KE/KW acid tank stabilization less than planned.*

Resolution: *Underrun is being utilized for other ER work.*

Cause: *Underruns on B Plant S&M due to delays in completing the filter changeout and duct work repair on stack.*

Resolution: *Costs will be increasing as B Plant stack was turned over to ERC in August.*

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

Resolution: *Overrun reflected in estimate at completion (EAC).*

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $46K for FY00)
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.*

Green

Status: *Based on comments received from the site management board (SMB) meeting held on August 21, a recommendation was made to fund ($3.5M) to the B Plant/PUREX roof repairs in FY01.*

INTEGRATION ACTIVITIES: *SM&T*

None identified at this time.