

Environmental Management Performance Report

July 2001



200-ZP-2 Process Flow Adjustment



L-12 Piping Removal at 233-S



Truck Loading and Queue Operations at the 600-23 Waste Site

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end May.
All other data as of June 21 (unless otherwise noted).



Department of Energy



Bechtel Hanford, Inc.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION**

JULY 2001

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data are current as of May 31. Accomplishments, Issues and Integration items are current as of June 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 fiscal year 2001 (FY01) Environmental Management (EM) corporate performance measures. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date Environmental Restoration Contractor (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 (RAW) Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

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

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

Section A: Executive Summary

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SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

Operations commenced for the removal of the steel and concrete pipelines in the 100 B/C Area. The steel pipe is being cut into 3-meter (10-foot) lengths and split into thirds with a hydraulic shear. The concrete pipe is being crushed into place prior to being loaded into Environmental Restoration Disposal Facility (ERDF) transportation containers.

Tri-Party Agreement Milestone M-16-26G, "Remove Filter Boxes and Complete Verification Sampling for 100-B-12 Waste Site" (due September 30), was completed on May 31, four months ahead of schedule.

Demobilization activities were completed at 100 D Area during May. The soil remediation subcontract closeout is being finalized. 100 D Area excavation and backfill were completed in late February.

In the 100 F Area, excavation of the 116-F-14 Retention Basin and 116-F-2 Trench plumes proceeded. Additional plumes continue to be identified as excavation progresses. Overburden removal also continued at the 1.4-meter (54-inch) discharge pipelines running from F Reactor to Lewis Canal. Sampling was completed at the 126-F-1 Ash Pit clean section. On May 4, the 40,000th container from the Group 4 sites (F/H Areas) was transported to ERDF.

Backfill operations were completed for eight waste sites in the 100 H Area. Backfill concurrence was also received from Ecology for the 116-H-7 Retention Basin.

In the 100 N Area, loadout was completed for the 116-N-3 Crib trough at the end of May. Demolishing and processing the trough in-place rather than cutting, lifting, and packaging trough sections, resulted in an estimated dose reduction of 47%. Excavation was initiated on the plumes at the 116-N-3 Trench and Crib waste sites. Demolition and size reduction were also initiated in May for the 116-N-3 bypass structure.

Confirmation laboratory data for the J.A. Jones waste site were received on May 17. Results indicated that all cleanup goals were met or exceeded. Loading and hauling operations were completed at the 600-23 waste site on May 15. A total of 2,722 metric tons (3,000 tons) was segregated from the 600-23 waste site for use as backfill which supports Hanford Site waste minimization efforts. Verification sampling was completed on May 23. Backfill bids are being evaluated.

A contract was awarded on May 8 for design and construction of the F and DR Reactors' Safe Storage Enclosure (roofs).

The Brokk™ control station arrived (on loan) from the Idaho National Engineering and Environmental Laboratory (INEEL) and was set up at F Reactor. The Brokk is a remote-controlled excavator that will be used to excavate fuel fragments that may be found in the soil covering lower areas of the F Reactor Fuel Storage Basin (FSB). The INEEL control station provides a more ergonomic work environment for the Brokk operator than the station that accompanied the equipment. After acceptance testing, the control station will be used for the next several months during basin cleanout. Brokk training was completed during May, and two operators are now qualified to operate the Brokk equipment.

Asbestos abatement and hazardous material removal activities are progressing at D and H Reactors. Valve pit demolition was completed at D Reactor.

Green

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NOTABLE ACCOMPLISHMENTS *continued*:

During May, 233-S Plutonium Concentration Facility work activities included removal of the L-4 and L-16 vessels from the process hood. Through May, five of the eight vessels planned for fiscal year 2001 (FY01) have been removed on or ahead of schedule. Fifteen vessels are planned for removal by June 2002. Nondestructive assays (NDA) were completed for 157 waste packages and 23 poly bottles of acid from the L-12 vessel. The waste package NDA backlog was also eliminated.

The Planning and Controls System Guidance document was issued in support of the upcoming FY02 Detailed Work Plan (DWP) development activities. The FY01 mid-year review presentation was completed, and mid-year review books were distributed.

Support continued for the FY03 budget development effort. Tasks included Integrated Priority List (IPL) input/update of unit of analysis data, and entering FY03 budget data into the U.S. Department of Energy (DOE) Headquarters (HQ) Integrated Planning, Accountability, and Budgeting System (IPABS). Support also continued for various FY02 funding exercises as requested by DOE Richland Operations Office (RL) and HQ.

CENTRAL PLATEAU:

The Groundwater/Vadose Zone (GW/VZ) Integration Project began the initial data assessment of the Hanford Site using the System Assessment Capability (SAC) Rev. 0 during May.

The procurement package was issued for calendar year 2001 (CY01) *Resource Conservation and Recovery Act* (RCRA) well installations. Eleven wells are planned for installation by December 31, 2001.

Planning is underway for the construction of a new groundwater well at the Plutonium Finishing Plant (PFP). The security plan for PFP was completed in support of the carbon tetrachloride investigation that will be performed in the surrounding area.

Soil gas sampling was completed for the tritium investigation being conducted at the 618-11 Burial Ground.

All groundwater pump and treat systems operated above the planned 90% availability levels in May. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,435 kilograms of carbon tetrachloride, 242 kilograms of chromium, and 1.03 curies of strontium. Approximately 766 million liters of groundwater have been processed in FY01, removing approximately 853 kilograms of carbon tetrachloride, 48 kilograms of chromium, and 0.136 curies of strontium.

Approximately 503 million liters of vapor were processed from the 200-ZP-2 soil vapor extraction system during May, removing 93 kilograms of carbon tetrachloride. Since planned restart in April, 947 million liters have been processed from the system in FY01, with 192 kilograms of carbon tetrachloride removed.

Approval was received from Ecology to implement the 200-TW-1 and 200-TW-2 Tank and Scavenged Waste Operable Units Rev. 0 Work Plan and Waste Control Plan.

Site surveillance and maintenance (S&M) activities proceeded in May to ensure inactive facility integrity and safety. Asbestos abatement activities were approximately 75% complete at the 181-N pumphouse located in the 100 N Area. Approximately 217 cubic meters (712 cubic feet) of nonradioactive, friable asbestos were safely removed. Hexone laboratory sample analysis was also completed. Ten drums containing hexone waste were shipped from the 90-day storage pad.

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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

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Fifteen *Tri-Party Agreement* milestones are currently planned for completion during FY01. Through May, twelve milestones have been completed, all ahead of schedule.

One *Tri-Party Agreement* milestone was completed during May. Milestone M-16-26G, Remove Filter Boxes and Complete Verification Sampling for 100-B-12 Waste Site (due September 30), was completed on May 31, four months ahead of schedule.

One *Tri-Party Agreement* milestone is currently unrecoverable. 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, will not be completed by September 30, 2001. Per regulator request, backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed. A *Tri-Party Agreement* change request was transmitted to the U.S. Environmental Protection Agency (EPA) proposing the completion date be revised to September 30, 2003. EPA disapproved the change request on June 20.

Total Tri-Party Agreement Milestones Due in FY01	15
Total Planned Through May	10
Total Completed Through May	12

Remaining Tri-Party Agreement Milestones to be Completed in FY01	3
Forecast Ahead of Schedule	2
Forecast On Schedule	0
Forecast Unrecoverable	1

EM Corporate Performance Measures:

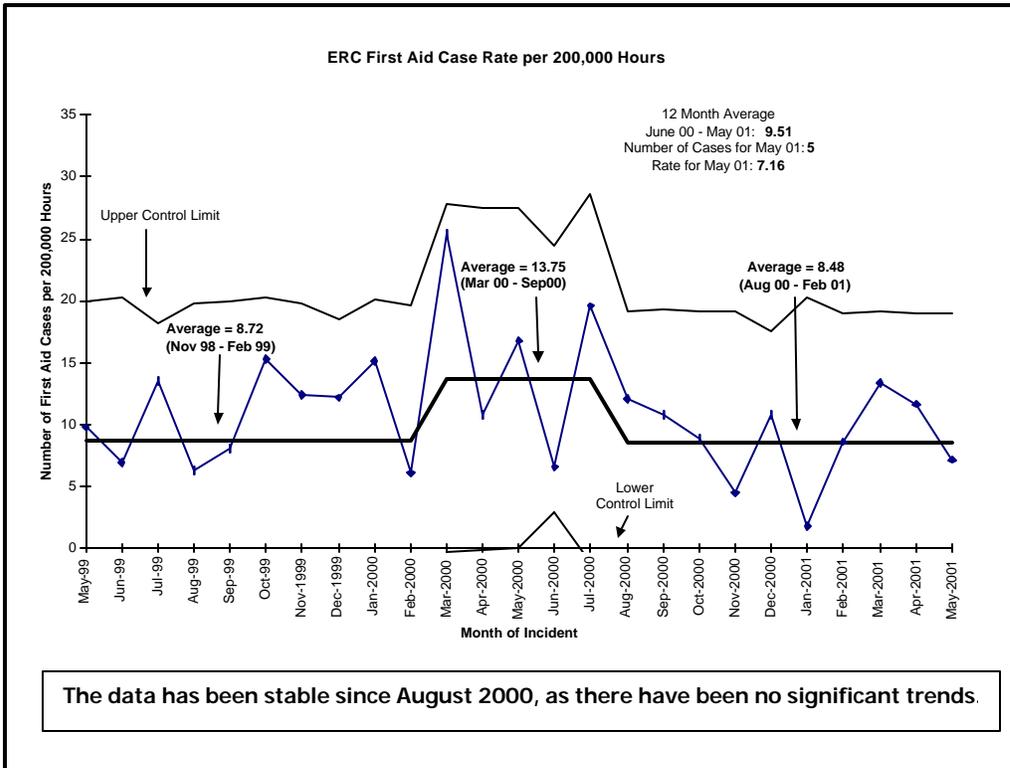
	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	12	12	18	10
Technology Deployments	0	5	8	7

Green

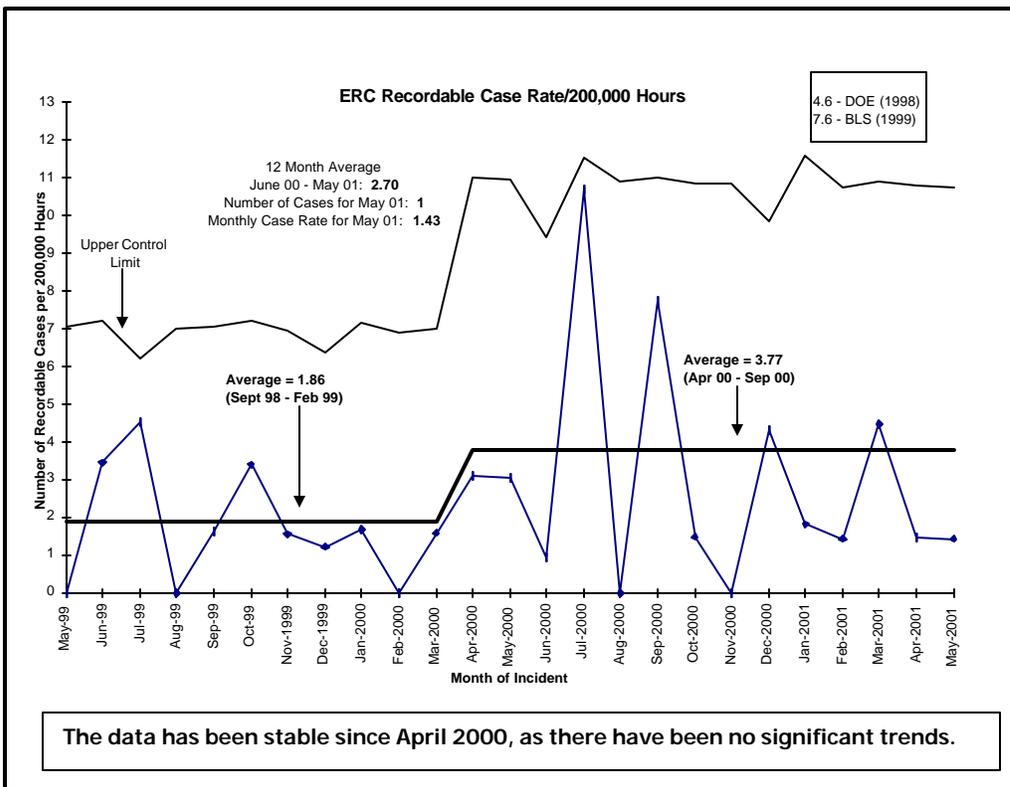
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SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only):



Green



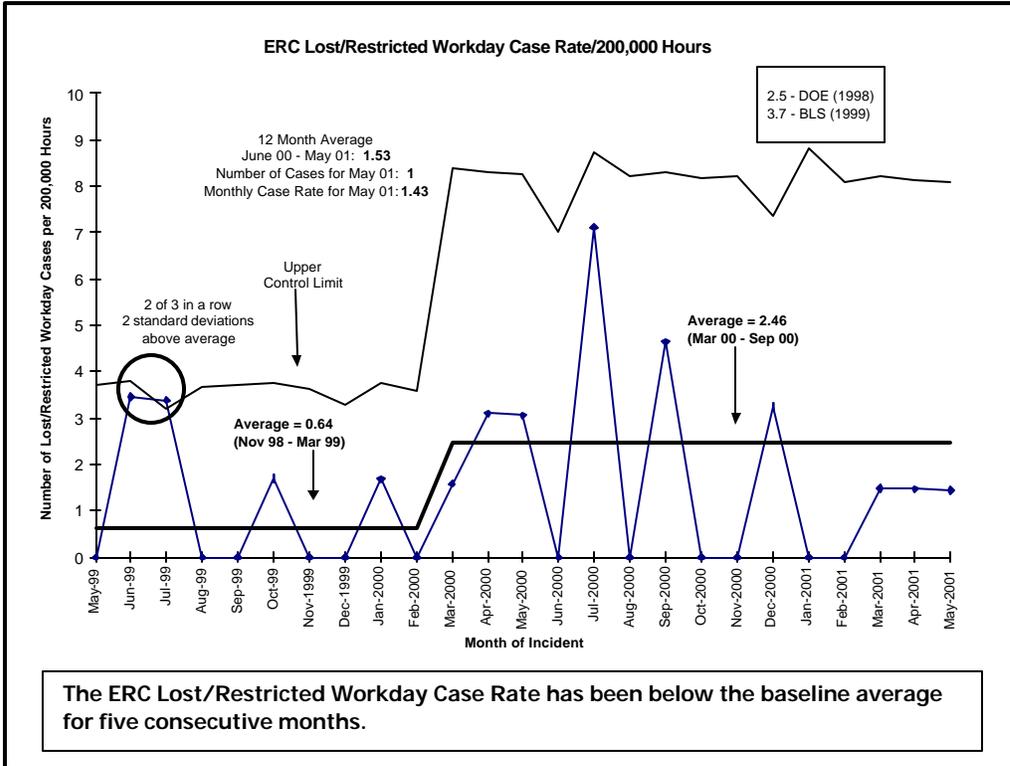
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SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Green



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

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

All accidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that can be implemented where applicable. Timely discussions are expected to take place in safety meetings and plan of the days (PODs).

Continue to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.

Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.

Implementation of the new hazard evaluation process continues to be a major area of focus for the ERC. A surveillance was conducted to assess implementation of the Job Hazards Analysis (JHA) process by the Groundwater Project and an integrated team was assembled to evaluate the effectiveness of the process using the Six Sigma methodology.

BHI developed a path forward for determining the nature and extent of conditions that led to the inadvertent contact with an energized electrical line at the 384 Powerhouse fuel oil bunker removal activity. BHI is participating in the daily bunker Tanks Work Continuation Team meetings.

Initiated a Root Cause Analysis tool. Through the accident investigation process the investigation team determines if the root causes are behavior or condition based or a combination.

The Field Support General Superintendent and Project Safety Manager visit different projects on a regular basis, meet with project team members and conduct a safety walk around. Information from the walk around is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project personnel or support personnel for action and are tracked to closure.

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

	FYTD	Current Period (4/16/01- 5/13/01)	Current Period Comments
First Aid	48	5	(2) bite/sting, (2) superficial laceration, (1) burn
OSHA Recordable	12	1*	(1) lower back pain
Restricted Workday Case	2	1 (*same incident as above)	(1) lower back pain
Lost Workday Case	4	0	N/A

Green

The ERC, as of June 16, 2001, reports approximately 78,200 hours since the last lost work day incident. The incident occurred on May 7, 2001 and became a lost time on May 31, 2001.

Green

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

ISMS:

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

Green

Status:

- BHI-MA-02, Procedure 2.7, Rev. 3, "Self-Assessment", was issued with an effective date of June 4, 2001. This procedure was revised to address scheduling requirements, integrated assessments, and develop a standardized reporting format. These issues were identified in a Compliance and Quality Programs independent focused assessment (CQP-00-S-15).
- On June 4, 2001, ERC senior management held a stand down follow-up meeting to emphasize the need for continued vigilance relative to personal commitment to safety on and off the job.
- The draft ISMS Safety Performance Objectives/Performance Measures report was completed. The report will be sent to RL for initial review prior to final submittal to RL by the end of June.
- A surveillance was conducted across the ERC of waste management activities associated with Satellite Accumulation Areas and 90-Day Accumulation Areas. Fieldwork was completed and a draft report is being developed. Tentatively one Corrective Action Request regarding training and several observations regarding Site Specific Waste Management Instructions were drafted.
- A Six Sigma process improvement project (PIP) is developing recommendations to improve the ERC procedure development/revision process. The PIP should be completed by the end of June.
- Emergency Preparedness drills were conducted for 100F Area, 100N Area, and 100D In situ REDOX Manipulation (ISRM).
- Implementation of the new hazard identification and analysis process continued. An integrated team was assembled to evaluate the effectiveness of the newly implemented process using the Six Sigma methodology. Currently the team is collecting data and assessing the workflow through the Job hazard analyses (JHA) system.

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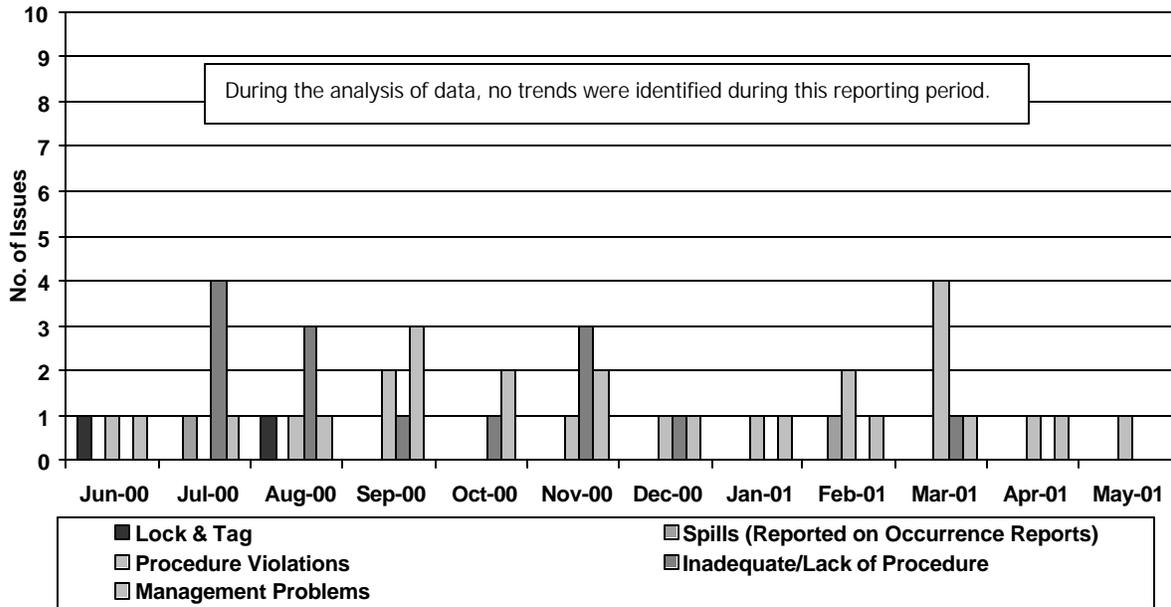
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 6/1/00 through 5/31/01

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

* Trend data not received until May 2001.



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

May Conduct of Operations Issues:

Procedure Violation:

Condition Description: Employee was not wearing proper dosimetry.

Corrective Action Plan:

- 1.) Re-familiarize the employee with radiological area entry requirements.
Completion date: 5/2/2001.
- 2.) Discuss the incident with the Environmental Restoration Disposal Facility (ERDF) crew and ensure all understand the dosimetry requirements on entering a radiological area. Completion date: 5/3/2001.
- 3.) Replace current Radiation Area (RA) signs with larger, more visible RA signs.
Completion date: 5/3/2001.



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

Previous Conduct of Operations Issues Reported in May:

Management Problem:

Condition Description: A BHI subcontractor was drilling an injection/extraction well at the In-Situ REDOX Manipulation (ISRM) site in the 100-DR area. This well is for a future chemical injection to treat the groundwater for chromium. The subcontractor was conducting cable tool drilling from the back of the drill rig, when the main cable broke under load. The cable whipped over the top of the derrick and fell to the ground at the back of the rig. Approximately 50' of cable was involved. At the time of the incident, the driller was stationed at the rig controls, located near the back of the drill rig. There were no injuries or property damage.

Corrective Action Plan:

- 1.) Subcontractor management will train/retrain all employees to their most current revision of their Health and Safety plan, and provide documentation signed by each employee stating the training was received. Emphasis will be placed on the importance of taking equipment out of service for repair when equipment abnormalities are encountered. Completion date: 5/2/2001.
- 2.) Employ a competent person to inspect all designated subcontractor equipment. Document all inspections/repairs and provide a copy to BHI. Completion date: 5/2/2001.
- 3.) Subcontractor will provide a letter to BHI, detailing their chain of command and including roles and responsibilities. Completion date: 5/7/2001.

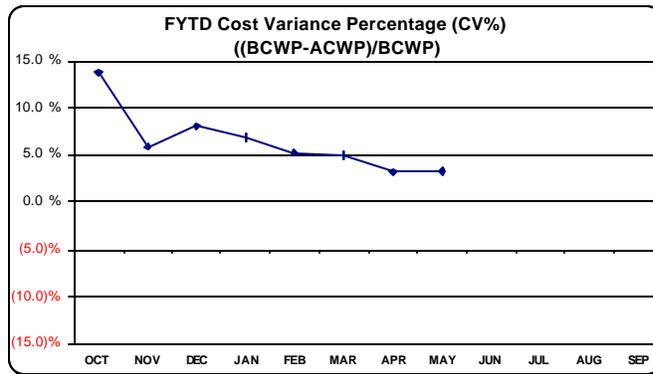
Green

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

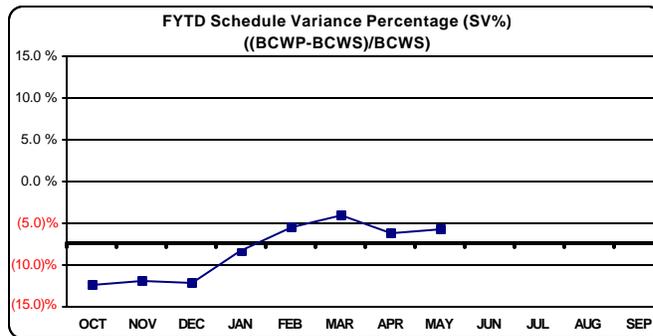


Green

Target performance is better than -5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102					
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660					
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202					
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614					
CV	1,539	1,290	2,820	3,301	3,177	3,720	2,855	3,412					
CV%	13.7%	5.9%	8.0%	6.9%	5.2%	5.0%	3.2%	3.4%					
EAC (Cumulative)	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	112,619	129,999	144,791	162,035	162,467
Yr End Budget Variance	195	544	2,241	2,200	2,274	3,316	3,610	4,856					

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



Green

Target performance is better than -7.5%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,418	12,003	12,656	16,859	13,957	13,663	16,142	13,948	15,777
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660				
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,322	76,977	93,836	107,793	121,456	137,598	151,546	167,323
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614				
SV	(1,587)	(2,940)	(4,815)	(4,479)	(3,566)	(3,121)	(5,882)	(6,179)				
SV%	-12.4%	-11.8%	-12.1%	-8.6%	-5.5%	-4.1%	-6.3%	-5.7%				

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

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

FY01 PERFORMANCE FYTD MAY 2001 (\$K)

	FY01 DWP		FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
	BCWS	BCWS	BCWS	BCWP	ACWP	\$	%	\$	%	
ER01 100 Area R/A	29617	30676	19437	19348	17851	-89	-0.5%	1497	7.7%	28276
ER03 300 Area R/A	4127	2369	1626	1253	1196	-373	-22.9%	57	4.5%	2242
ER04 ER Waste Disposal	17420	18604	12118	12644	11754	526	4.3%	890	7.0%	18124
RA-Subtotal	51164	51649	33181	33245	30801	64	0.2%	2444	7.4%	48642
ER02 200 Area R/A	443	4175	2115	1111	1229	-1004	-47.5%	-118	-10.6%	4098
ER08 GW Management	24942	30857	19135	17746	17400	-1389	-7.3%	346	1.9%	31070
VZ01 GW/VZ	10833	10864	7900	6945	6703	-955	-12.1%	242	3.5%	10639
GW/VZ-Subtotal	36218	45896	29150	25802	25332	-3348	-11.5%	470	1.8%	45807
ER06 ISS	2065	12311	8057	7642	7894	-415	-5.2%	-252	-3.3%	11805
ER06 233-S	5130	6363	4141	3928	4289	-213	-5.1%	-361	-9.2%	6788
DD-Subtotal	7195	18674	12198	11570	12183	-628	-5.1%	-613	-5.3%	18593
ER05 S&M	13024	13685	9621	8913	8245	-708	-7.4%	668	7.5%	12608
ER07 Long-Term S&M	59	59	16	26	6	10	62.5%	20	76.9%	39
SM-Subtotal	13083	13744	9637	8939	8251	-698	-7.2%	688	7.7%	12647
ER10 ERC PM&S	28984	31217	19831	19203	18780	-628	-3.2%	423	2.2%	30636
ER10 RL PM&S	5300	6143	3797	2856	2856	-941	-24.8%	0	0.0%	6143
PM-Subtotal	34284	37360	23628	22059	21636	-1569	-6.6%	423	1.9%	36779
GRAND TOTAL	141944	167323	107794	101615	98203	-6179	-5.7%	3412	3.4%	162468

Green

Cost Variance Summary

At the end of May, the ER Project had performed \$101.6M worth of work, at a cost of \$98.2M. This results in a favorable cost variance of \$3.4M (+3.4%). The positive cost variance is attributed to less labor required due to sharing resources between 100 D and 100 B/C Area remediation efforts; 100 D Area backfill completed early; less labor required to complete remediation cleanup verification packages (CVPs) due to use of a streamlined format and consolidation of waste sites; ERDF transportation labor performing scope without planned overtime; underruns in GW/VZ sampling and system characterization; 200 Area general S&M tasks costs less than planned; and program management support to field operations using fewer resources than planned.

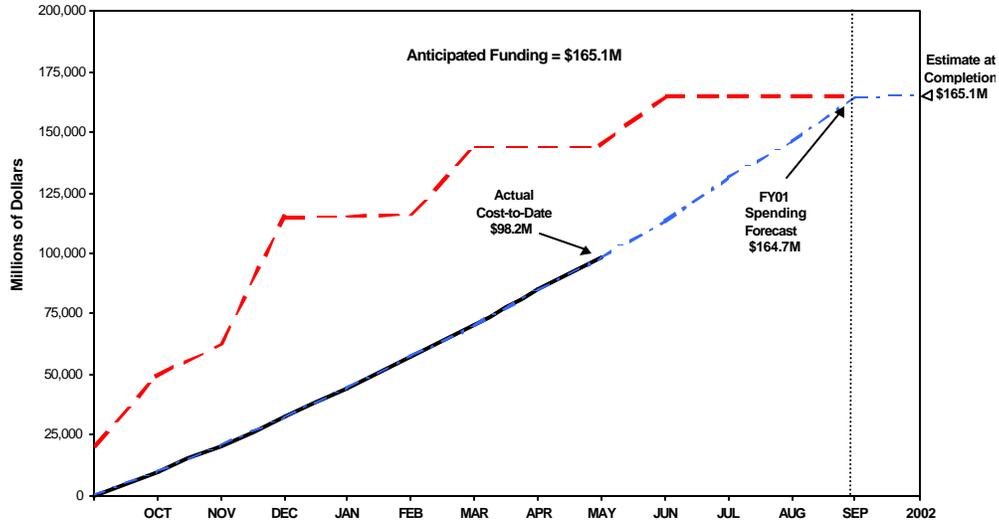
Schedule Variance Summary

Through May, the ER Project is \$6.2M (-5.7%) behind schedule. The negative schedule variance is attributed to delays in 200-TW-1 and 200-TW-2 Operable Unit pre-job planning and drilling procurement activities; waste shipments from *Resource Conservation and Recovery Act of 1976* (RCRA) wells placed on hold pending disposition resolution; well decommissioning delays due to extended well document search/selection; delays in groundwater monitoring sample collection and analysis activities; testing for System Assessment Capability (SAC) history matching taking longer than planned; awaiting laboratory results from the vadose zone transport field study samples; work revisions required for the F Reactor Fuel Storage Basin (FSB) cleanout; asbestos abatement activities initiated later than planned; and late billings for site-wide assessments.

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

FY2001 Funds Management



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2002	EAC TOTAL												
ACTUAL/ANTICIPATED FUNDING	20,500	48,800	62,900	115,100	115,466	116,236	144,126	144,126	144,126	165,087	165,087	165,087	Est. Outyr. ETC													
APPROVED SCOPE																										
1 Actual Cost	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202																		
2 Current Monthly EACs	9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	14,417	17,381	14,792	17,242														
3 Cumulative EAC	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	112,619	130,000	144,792	162,034	432	162,467												
FY2001 PENDING BCPs																										
4 ALL	Provisional Billing Rate Adjustment														(500)	0	(500)									
5 ER06	BCP-21176 BROKK Procurement & Implementation; Increased Cost (Gamma Cam & ISOCs Failure to Detect Fuel Elements)												602						0	602						
6 ER06	BCP-21187 Delete EM-40 ISS FSB Work Scope @ F Reactor (EM-50 Funded)												(602)						0	(602)						
7 ER08	ISRM Pond Enhancement													50					0	50						
8 ER08	Well 699-43-2 Potential ONO															35			0	35						
9 ER08	BCP-21172 ISRM - Phase II Installation/Drilling Methodology Contract Change												12							0	12					
10 ER08	KR-4 Pump and Treat System - Upgrades												100	100	100	100				0	400					
11 VZ01	Analyze SAC Initial Assess Results/Additional Assess												33	33	34	34				0	134					
12 ER05	Hexone Stabilization																	100		0	100					
13 ER06	BCP-21160 Addition of Hours into Common Reactor ISS Acct from Distributions														129	129	130				0	388				
14 ER06	BCP-21173 Change in Non-Destructive Assay Contractors for 233-S														83	83	84				0	250				
15 ER10	BCP-21183 Deferral of Environmental Mgmt Sys Scope into FY02																	(12)	(12)		0	(24)				
16 ER10	RCF Portable Equipment Purchase																		160		0	160				
17 ALL	Pending Scope FY01 Additions/Reductions/Efficiencies												403	404	404	404				0	1,615					
18	Subtotal Approved BCPs + Pending BCPs												548	799	238	1,035			0	2,620						
Summary																										
19	Current Monthly EAC + June FY2001 Approved BCPs & Pending BCPs												9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	14,965	18,180	15,030	18,277		-
20	Cumulative EAC + June FY2001 Approved BCPs & Pending BCPs												9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	113,167	131,347	146,377	164,654	432	165,087

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

PERFORMANCE OBJECTIVES:

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

KEY INTEGRATION ACTIVITIES:

River Corridor: A technical team of ERC personnel prepared a revision to Volume 3 of the Hanford Analytical Services Quality Assurance Requirements Document (HASQARD). The team consisted of expert personnel who are responsible for administration and performance of radiological, inorganic, and organic field analysis for ERC projects. Their expertise in the use and application of field analytical methods was incorporated into the revision. The revision was forwarded to Fluor Hanford (FH) for further consideration with the Hanford Site HASQARD Focus Group.

Green

Central Plateau: Assisted CH2M Hill Hanford Group, Inc. (CHG) in obtaining additional land for parking facilities adjacent to the Plutonium Uranium Reduction Extraction (PUREX) facility to support construction activities. Support was also provided to FH in obtaining crane parts required for Spent Nuclear Fuel Project operations, and in obtaining tools from U Plant for use at T Plant.

UPCOMING PLANNED KEY EVENTS:

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

Green

Tri-Party Agreement Milestone M-16-26C, Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as Defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area, due September 30.

Environmental Management Performance Report

July 2001

Section B - River Corridor Information

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



Demolition, Processing and Loadout of the 116-N-3 Trough and Plumes



Vessel L-16 Removal at 233-S



Brokk Mock Up Training at F Reactor

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end May.
All other data as of June 21 (unless otherwise noted).



Department of Energy



Bechtel Hanford, Inc.

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION

JULY 2001

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAW):

ACCOMPLISHMENTS: RAWD

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations:

During May, shipments totaling 62,552 metric tons (68,952 tons) of contaminated waste were transported to ERDF. 363,592 metric tons (400,794 tons) of waste have been disposed in FY01, which is about 13% ahead of the plan. To date, a total of 2,670,353 metric tons (2,943,576 tons) of material have been disposed in ERDF.

Through May, the ERDF disposal team has worked 1,809 days (since project inception) without a lost-time accident.

100 B/C Area Remediation: Pipeline removal commenced for pipeline #3 (1.2-meter [48-inch] concrete), pipeline #4 (1.7-meter [66-inch] steel), and pipeline #6 (0.8-meter [30-inch] concrete). The steel pipe is being cut into 3-meter (10-foot) lengths and split into thirds with a hydraulic shear. The concrete pipe is being crushed into place prior to being loaded into ERDF transportation containers. Silt fences have been installed to facilitate demolition at three river outfall structures. *Tri-Party Agreement* Milestone M-16-26G, "Remove Filter Boxes and Complete Verification Sampling for 100-B-12 Waste Site" (due September 30), was completed May 31, four months ahead of schedule.

100 D Area Remediation: Demobilization activities were completed at 100 D Area. Subcontract closeout is being finalized. 100 D Area excavation and backfill were completed in late February.

100 F Area Remediation: Excavation of the 116-F-14 Retention Basin and 116-F-2 Trench plumes continued. The Laser-Assisted Ranging and Data System (LARADS) survey identified additional plumes. A baseline change proposal (BCP) was approved for removal of an additional 41,549 metric tons (45,800 tons) of plume material at the 116-F-2 and 100-F-19 pipelines. Overburden removal also progressed at the 1.4-meter (54-inch) discharge pipelines from F Reactor to Lewis Canal. A small mercury spill was discovered and removed during overburden removal. Sampling was completed at the 126-F-1 Ash Pit clean section. On May 4, the 40,000th container from the Group 4 sites (F/H Areas) was transported to ERDF.

100 H Area Remediation: The 100 H Area hexavalent chromium leachate study report was completed and reviewed by the Washington State Department of Ecology (Ecology). Backfill concurrence was received from Ecology for the 116-H-7 Retention Basin. Backfill operations were also completed for eight waste sites.

100 N Area Remediation. Loadout was completed for the 116-N-3 Crib trough at the end of May. Demolishing and processing the trough in-place rather than cutting, lifting, and packaging trough sections, resulted in an estimated dose reduction of 47%. This also increased personnel safety due to the elimination of critical lifts at both the remediation site and ERDF. Excavation was initiated on the plumes at the 116-N-3 Trench and Crib waste sites. Demolition and size reduction was also initiated in May for the 116-N-3 bypass structure.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

ACCOMPLISHMENTS continued: RAWD	
<p>100/300 Area Design/Assessment: A draft <i>Final Hazard Classification and Auditable Safety Analysis (FHC/ASA)</i> for the Remediation of the 618-5 Burial Ground document was completed for internal review. Comments are due by June 28. The 618-5 waste site is considered analogous to the 618-4 waste site. Therefore, this document was prepared using the 618-4 FHC/ASA as a guide. The analysis for 618-5 waste site identified the site as radiological.</p> <p>The 618-5 Burial Ground design package was also issued for procurement review. The package addresses remediation and design requirements for the 618-5 waste site.</p> <p>300 Area Remediation: An agreement was reached with regulators to continue completion of the cleanup verification packages (CVPs) for the 300-FF-1 operable unit (excluding 618-4 Burial Ground). Maintenance activities are ongoing at the 618-4 Burial Ground.</p> <p>300/600 Area Remediation: Confirmation laboratory data for the J.A. Jones waste site were received on May 17. Results indicated that all cleanup goals were met or exceeded.</p> <p>Loading and hauling operations were completed at the 600-23 waste site on May 15, and the subcontractor completed demobilization on May 17. A total of 2,722 metric tons (3,000 tons) was segregated from the 600-23 waste site for use as backfill which supports Hanford Site waste minimization efforts. Backfill bids are being evaluated. Final preparations are underway to ship overpacked drums containing black tar material for offsite treatment. Verification sampling at 600-23 waste site was completed on May 23.</p>	
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
See Executive Summary.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
None identified at this time.	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
None identified at this time.	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time. 	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

• **Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date	
M-16-26D	Begin Excavation Activities at 100 B/C Process Effluent Pipelines.	2/28/01	2/26/01 (A)	
M-16-07B	Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	7/31/01	2/28/01 (A)	
M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	7/31/01	6/29/01 (F)	
M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	9/30/01	7/13/01 (F)	
M-16-03E	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling	9/30/01	9/30/03 (F)*	
M-16-26G	Remove filter boxes and complete verification sampling for 100-B-12 waste site	9/30/01	5/31/01 (A)	
M-16-00F	Establish Date for Completion of all 100 Area Remedial Actions	12/31/01	12/31/01 (F)**	
M-16-41B	Submit Cleanup Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	3/31/02 (F)	
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1/-2, 100-DR-1/-2, and 100-HR-1 OUs and Process Effluent Pipelines in the 100-DR-1/-2, and 100-HR-1 OUs. Complete revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1/-2, and 100-HR-1 OUs as defined in the RDR/RAWP for the 100 Area.	3/31/02	3/31/02 (F)	

*Per regulator request, Kd (partitioning coefficient) study is being performed to determine uranium leachability in the 300 Area. 300-FF-1 backfill will be deferred until leachability concerns are resolved. A *Tri-Party Agreement* change request was forwarded to EPA on June 11 proposing the completion date be revised to 9/30/03. EPA disapproved the change request on June 20.

**Awaiting DOE direction prior to initiating discussions with regulators; 110-day notification required by September 12.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

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

PERFORMANCE OBJECTIVES: RAWD

RAWD	Task	Status
RAWD	• 490,000 Tons by 9/30/01	On schedule.
	• Backfill 16 Sites by 9/30/01	On schedule.
	• 50,000 Additional Tons by 9/30/01 (Stretch)	100% of Stretch undertaken as of 2/28/01.
	CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04	(*Detail Section 6C)

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

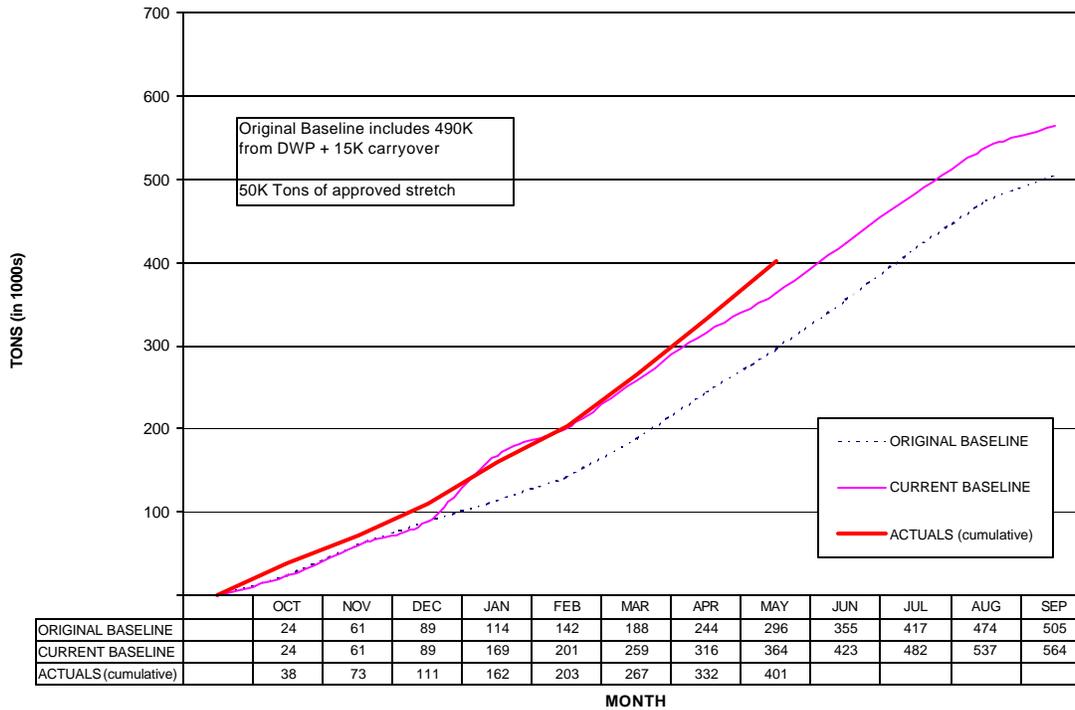
JULY 2001

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

	DWP FY01	FY01 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Completed YTD
Waste Sites Excavated	12	12	18	10

Green

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



STRETCH AND SUPERSTRETCH GOALS: RAWD

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

Green

(*through May 31)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

STRETCH AND SUPERSTRETCH GOALS continued: RAWD

FY01 RAWD "Superstretch" Goals	Approved BCPs (K)
*Complete Remediation of 60 Square Miles of Hanford Site: (1) Complete Remediation of J.A. Jones Pit #1 and 600-23	\$1640.9K
S/Total Remedial Action Superstretch Goals:	\$1640.9K

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): RAWD

- **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	19,437	19,348	(89)
ER03 300 Area Remedial Actions	1,626	1,253	(373)
ER04 ER Waste Disposal	12,118	12,644	526
TOTAL Remedial Actions	33,181	33,245	64

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **(\$89K); (0.5%)** [Last Month: (\$540K); (3.1%)]

Cause: The export line work at 100-NR-1 has been suspended pending regulator review of proposed alternatives to installation of a support bridge.

Resolution: Regulator approval of alternatives would require no further work to be performed and the baseline would be adjusted accordingly; rejection would require installation of the support bridge by fiscal year-end.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **(\$373K); (22.9%)** [Last Month: (\$222K); (15.6%)]

Cause: Delays in the 300-FF-1 remediation contract closeout; award of burial ground barrel removal procurement package delays.

Resolution: Contractor is reviewing options and subcontract waste stream disposal is being studied; a BCP is in progress to defer procurement of barrel removal.

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = **\$526K; 4.3%** [Last Month: \$127K; 1.2%]

Cause: More ton miles of waste were transported and disposed than planned due to additional plume remediation at soil sites.

Resolution: None required.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

PROJECT STATUS (COST/SCHEDULE) continued: RAWD

• **Cost:**

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER01 100 Area Remedial Actions	28,276	19,348	17,851	1,497
ER03 300 Area Remedial Actions	2,242	1,253	1,196	57
ER04 ER Waste Disposal	18,124	12,644	11,754	890
TOTAL Remedial Actions	48,642	33,245	30,801	2,444

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = **\$1497K; 7.7%** [Last Month: \$1151K; 6.9%]

Cause: Less labor was required due to sharing DR site non-manual resources with the 100-BC work scope needs, shifting of personnel to other waste sites, less design and supervision required, and backfill completed six weeks early.

Resolution: Reflected in the EAC.

Cause: CVPs continue to require less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites.

Resolution: Reflected in the EAC.

Cause: Cost overrun at 100-NR crib remediation as a result of high contamination levels and radiation control issues.

Resolution: Overrun trended and reflected in the EAC.

PBS-ER03 – 300 Area Remedial Action

Cost Variance = **\$57K; 4.5%** [Last Month: \$106K; 8.8%]

Cause: Coordination of 300-FF-2 and 100 Area Burial Grounds design efforts has resulted in savings; Pacific Northwest National Laboratory (PNNL) staff and subject experts were utilized on the 618-10/11 Engineering Study Historical Research resulting in additional savings. Underrun offset by cost overrun in rerouting the South Process Pond water line and sample costs at Landfill 1B.

Resolution: Reflected in the EAC.

PBS-ER04 – Environmental Restoration Waste Disposal

Cost Variance = **\$890K; 7.0%** [Last Month: \$901K; 8.2%]

Cause: Through February, little driver overtime was required to stay on schedule. Driver overtime increased in March, April, and May, and will continue at an increased rate through the remainder of the fiscal year.

Resolution: Cost savings will be offset by anticipated higher driver needs for the next four months. Some expected savings are reflected in the EAC.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

REGULATORY ISSUES: RAWD	
<p>Tri-Party Agreement Milestone M-16-03E: M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", due 9/30/2001 will be missed due to the U.S. Environmental Protection Agency (EPA) requirement to perform a Kd study on uranium leachability. The regrades will not be completed until study results confirm that no further excavations will be required.</p> <p>Status: EPA requested a Kd study be performed to address uranium mobility in the 300 Area. This study consists of obtaining uranium-contaminated samples and performing leach rates with follow-on absorption tests resulting in a Kd value. A data quality objective (DQO) was completed, and a BCP prepared to incorporate the additional workscope into the baseline and to secure funding for the study. The study began in March and is expected to be complete in FY02. A <i>Tri-Party Agreement</i> change package was transmitted to the regulators on June 11 proposing the date be revised to September 30, 2003. A letter was received from EPA on June 20 that disapproved the change package. This issue will require further discussions among the Tri-Party participants.</p> <p>Tri-Party Agreement Milestone M-16-03F - 618-4 Burial Ground: It is unlikely that treatment of the 618-4 Burial Ground uranium metal/oil drummed waste can be performed this fiscal year. The treatment technology has been identified, however, the treatment facility startup process is proceeding slower than planned. Currently, it appears that the treatment facility may be unable to receive the uranium metal/oil drummed waste until early FY03. EPA has indicated a need to show continuous progress at 300-FF-1 in FY01, and is also requesting a milestone date be established for excavation of the 618-4 Burial Ground.</p> <p>Status: A BCP was approved to treat and dispose of the 78 uranium oxide powder drums currently staged in the 618-4 Burial Ground. This workscope will be performed in lieu of initiating treatment of the uranium metal/oil drums in FY01. Adding the 618-4 Burial Ground scope to the revised M-16-03E milestone will require further discussions among the Tri-Party participants.</p> <p>Tri-Party Agreement Milestone M-16-00F - Establish Date for Completion of All 100 Area Remedial Actions: This milestone is due on December 31, 2001 and will develop the dates and workscope for any remaining remedial actions in the 100 Area. Currently, most of these remedial actions are in the 100 Area Long Range Plan (miscellaneous pipelines are still being developed). <i>Tri-Party Agreement</i> Major Milestone M-16-00 compliance date is September 30, 2018. In addition, <i>Tri-Party Agreement</i> Milestones M-93-14 / M-93-15 (Initiate / Complete Negotiation of Remaining Surplus Reactor Disposition Schedules) and potentially M-16-03A (Establish Date for Completion of 300 Area Remedial Actions) will also be addressed in these negotiations.</p> <p>Status: RL has initiated development of a strategy for negotiation of M-16-00F that includes the River Corridor outcome.</p>	<div style="border: 2px solid black; padding: 5px; margin-bottom: 10px; background-color: #ffffcc;">Yellow</div> <div style="border: 2px solid black; padding: 5px; margin-bottom: 10px; background-color: #ffffcc;">Yellow</div> <div style="border: 2px solid black; padding: 5px; background-color: #ffffcc;">Yellow</div>
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)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION

JULY 2001

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor Interim Safe Storage (ISS): The contract was awarded for design and construction of the F and DR Reactors' safe storage enclosures (primarily roof structure) on May 8.

The Brokk™ control station arrived (on loan) from the Idaho National Engineering and Environmental Laboratory (INEEL) and was set up at F Reactor. The Brokk is a remote-controlled excavator that will be used to dig out fuel fragments that may be found in the soil covering lower areas of the F Reactor Fuel Storage Basin (FSB). The control station, which was designed by Oak Ridge National Laboratory and used at INEEL, provides a more ergonomic work environment for the Brokk operator than the station that accompanied the equipment. After acceptance testing, the control station will be used for the next several months during basin cleanout. During May, the Brokk training was completed. Two operators are now qualified to operate the Brokk equipment.

D Reactor ISS: At D Reactor, valve pit demolition was completed during May. Loadout is scheduled for completion in June. The below-grade piping systems were also cut that were underneath the valve pit. Asbestos abatement was completed in Area 5 (Room 218-B).

H Reactor ISS: At H Reactor, hazardous material was removed from Areas 1, 2, and 3 (operations gallery, FSB, and lunchroom). Flat transite asbestos was also removed from the control room and lunchroom areas.

233-S Plutonium Concentration Facility Decommissioning Project: Decommissioning activities at the 233-S facility continued to focus on removal of the 15 process vessels by June 2002. Through May, five of the eight vessels planned for FY01 have been removed on or ahead of schedule. May activities that were accomplished in the highly contaminated 233-S facility included the following:

- Removal of two additional vessels, L-4 and L-16, from the process hood. The mixer pump and pump housing also required removal to gain access to the L-16 vessel. Commencement of L-6 vessel removal.
- Completion of non-destructive assay (NDA) for 157 waste packages and 23 poly bottles of acid from the L-12 vessel. The L-12 acid was stored in the old equipment room.
- Acid and L-6 vessel powder samples were sent to 222-S laboratory for analysis.
- Completion of the waste package NDA backlog.
- Completion of magnetic drill mockup for platform installation.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: D&D			
None identified at this time.			
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): D&D			
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time. 			
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time. 			
<ul style="list-style-type: none"> • Tri-Party Agreement Milestones: 			
Milestone	Description	Due Date	(F)/(A) Date
M-93-12	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (...)	2/28/02	*TBD
<p>*Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY 2002. Initial discussions are underway.</p>			
<ul style="list-style-type: none"> • DNFSB Commitment: None identified at this time. 			
PERFORMANCE OBJECTIVES: D&D			
PI	Task	Status	
233-S	<ul style="list-style-type: none"> • 8 vessels by 6/30/02 • 7 additional vessels by 6/30/02 (Stretch) <p>CV <5.0%; SV <7.5% for PBS ER-06</p>	<p>Critical path activity on schedule.</p> <p>BCP-21023 approved. Stretch activities in progress and on schedule.</p> <p>(*Detail Section 6C)</p>	
	<ul style="list-style-type: none"> • D Reactor Major Tasks by 9/30/01 • DR Reactor Major Tasks by 9/30/01 • F Reactor Major Tasks by 9/30/01 • H Reactor Major Tasks by 9/30/01 <p>CV <5.0%; SV <7.5% for PBS ER-06</p>	<p>Critical path activities on schedule (except for F Reactor); received authorization funding in December. F Reactor basin fill removal activities are being replanned to accommodate removal of fill in two 15" lifts vs. one 30" lift. Scheduled completion date is now 11/30/01. BCP 21187, with associated PI change justification, was submitted to DOE on June 15.</p>	

Green

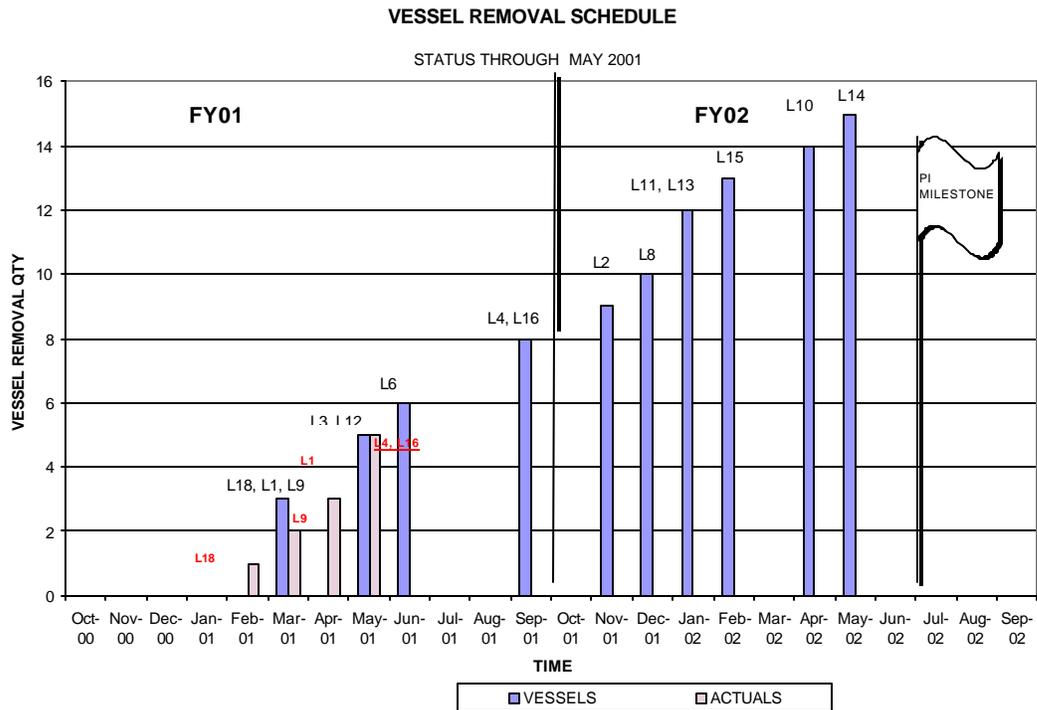
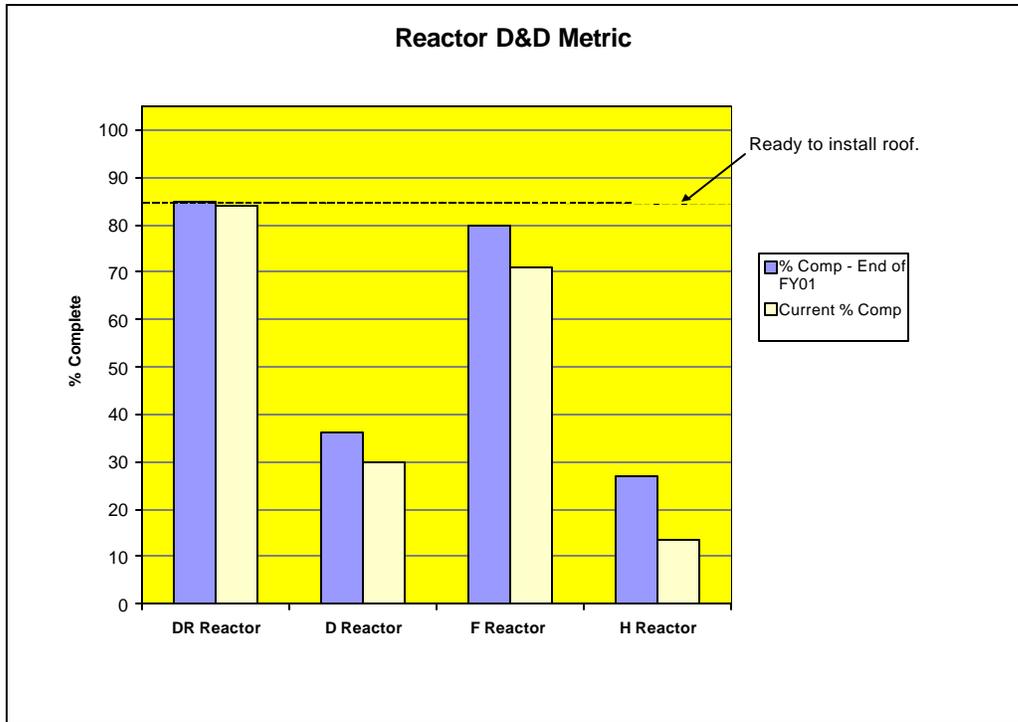
Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

PERFORMANCE MEASURES/METRICS: D&D

Green



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

STRETCH AND SUPERSTRETCH GOALS: D&D

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

Green

FY01 D&D "Superstretch" Goals	Approved BCPs (K)
*Continue F Reactor Interim Safe Storage	\$1372.4K
S/Total D&D Superstretch Goals:	\$1372.4K

Green

*Carried over from FY00. Completed – Notice of Completion submitted on 5/3/01.

PROJECT STATUS (COST/SCHEDULE): D&D

- Schedule:

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER06 ISS and Other D&D Projects	8,057	7,642	(415)
ER06 233-S	4,141	3,928	(213)
TOTAL D&D	12,198	11,570	(628)

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = **(\$628K); (5.1%)** [Last Month: (\$102K); (1.0%)]

Cause: Behind schedule at the F Reactor FSB cleanout due to work revisions resulting from the inability of the Gamma Cam and In Situ Object Counting System (ISCOS) systems to positively identify fuel elements 30-36" below the surface as planned.

Resolution: A BCP to add new work scope utilizing Brokk equipment and to extend the schedule and Performance Indicator (PI) to November 30, 2001 is being prepared.

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

Resolution: Selective overtime will continue to be used to recover the schedule; continue to look for better ways to accomplish work safely. The negative schedule variance has been reduced by 2/3 since October and continues to improve.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

• Cost:

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER06 ISS and Other D&D Projects	11,805	7,642	7,894	(252)
ER06 233-S	6,788	3,928	4,289	(361)
TOTAL D&D	18,593	11,570	12,183	(613)

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = **(\$613K); (5.3%)** [Last Month: (\$277K); (2.6%)]

Cause: Overrun at the F Reactor FSB due to resolving work package issues while work was on hold; procedural changes resulting in loss in efficiency in removing material from the FSB; and increased cost associated with work procedure revisions resulting from the inability of the Gamma Cam and ISOCS systems to positively identify fuel elements 30-36" below the surface.

Resolution: Additional costs associated with technology implementation of the Gamma Cam and ISOCS and additional equipment costs have been trended.

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

Resolution: Overrun has been partially reflected in the EAC.

REGULATORY ISSUES: D&D

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

Green

Status: Initial discussions with the regulators have begun. This will need to be discussed as part of RL's 100 Area acceleration vision.

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

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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

Issue: Fluor Hanford(FH)-Plutonium Finishing Plant (PFP) notified BHI of an error in their calculations which may affect the accuracy of fissile material inventory previously reported to BHI in FH-PFP non destructive assay (NDA) results reports.

Green

Resolution: FH-PFP has initiated an investigation to determine the extent the calculation error affected assay results and will perform an analysis to determine the root cause. Based on the initial rough order of magnitude estimates of the error, BHI does not believe there has been an authorization basis violation. BHI has suspended waste shipments from 233-S until FH-PFP can quantify the error. Additional evaluations of the impact of this error will be completed by BHI as soon as FH-PFP provides quantitative error results.

INTEGRATION ACTIVITIES: D&D

None identified at this time.

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**Program Management and
Support (PM&S)**

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: ERC presented four sessions at the 2001 As Low as Reasonably Achievable (ALARA) Conference that was held in Richland, Washington on May 22-24. The keynote address was also presented by ERC.

An all manager's meeting was held on June 4th as a follow up to the Safety Stand Down on April 26. The purpose of the meeting was to reinforce the message about personal commitment to safety and to gather feedback from the staff about the Stand Down and follow-up actions.

A site-specific health and safety plan was prepared for the demolition and remediation of the fuel oil bunker tanks at the 384 Powerhouse located in the 300 Area. The annual fire protection assessment was also performed at the 308 Complex.

PROGRAM AND PROJECT SUPPORT:

Procurement and Property Management: ERC continues to meet or exceed socio-economic contracting goals for FY01. The FY01 socio-economic contractual goals versus actual percentages (through May) are as follows:

Total	Small Business	Goal:	50.0	Actual:	49.0%
	Small Disadvantaged Business	Goal:	6.5%	Actual:	19.9%
	Women-Owned	Goal:	3.5%	Actual:	5.2%

ERC Procurement management attended the DOE Small Business roundtable session as part of the ongoing effort to increase small business participation.

ENGINEERING AND TECHNOLOGY:

Automation Technology: Since the beginning of this calendar year, 3,297 viruses have been identified and prevented from infecting the ERC computer network system.

PLANNING AND CONTROLS:

The Planning and Controls System Guidance document was issued in support of upcoming FY02 Detailed Work Plan (DWP) development activities. FY02 distributable cost rates were also developed for the FY02 DWP.

The FY01 mid-year review presentation was completed, and mid-year review books were distributed.

Support continued for the FY03 budget development effort. Tasks included Integrated Priority List (IPL) input/update of unit of analysis data, and entering FY03 budget data into the DOE Headquarters (HQ) Integrated Planning, Accountability, and Budgeting System (IPABS). Support also continued for various FY02 funding exercises as requested by RL and HQ.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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SAFETY/ISMS/CONDUCT OF OPERATIONS: PM&S
See Executive Summary.
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: PM&S
None identified at this time.
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: PM&S
<p>Six Sigma:</p> <p>Progress continues on Six Sigma program implementation. There are four phases (Measure, Analyze, Improve, Control) in a Process Improvement Project (PIP).</p> <p>Phase II process improvements are underway for the Waste Management PIP (PIP#1) which was completed in April. We anticipate an additional \$100K in savings, in addition to the \$800K in cost avoidance, by implementing these further improvements.</p> <p>The ERC Procedure Development PIP (PIP#2) is in the "Control Phase" and is about 90% complete.</p> <p>The Radiation Control Instrumentation PIP (PIP#3) is in the "Measure Phase" and is about 30% complete.</p> <p>The 21 ERC Six Sigma Yellow Belts continue to actively apply the Six Sigma methodology and tools into their functional/project areas and report progress on a monthly basis.</p> <p>RL has requested BHI to facilitate a Waste Management PIP for the DOE Complex. This PIP is focused on the Nevada and Hanford sites waste acceptance processes. The business plan for this PIP is currently being developed between DOE-RL, DOE-NV, Bechtel NV and Fluor Hanford.</p>
<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): PM&S
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time.
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time.
<ul style="list-style-type: none"> • Tri-Party Agreement Milestones: None identified at this time.
<ul style="list-style-type: none"> • DNFSB Commitment: None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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PERFORMANCE OBJECTIVES: PM&S

Comprehensive Measures

Comprehensive Measure	Task	Status
Safety	<ul style="list-style-type: none"> The Contractor shall protect worker safety and health, public safety and health, and the environment. 	Reference the Safety Section of the Cross-Cutting package.
Operational Excellence	<ul style="list-style-type: none"> Migrate systems to facilitate PBS restructuring in FY02 Rebaseline completed per Baseline Updating Guidance (BUG) Integrate technology into Projects Achieve pollution prevention/waste minimization 	Rebaseline activities completed on 1/10/01. All other activities on schedule for completion as planned, however DWP preparation activities are being compressed due to delayed receipt of formal planning guidance.
Effective Leadership	<ul style="list-style-type: none"> Management Effectiveness Customer Satisfaction Effective Financial Management Cost/Price Analysis 	No concerns were identified in May.

Green

PERFORMANCE MEASURES/METRICS: PM&S

ERC identified five technologies to be deployed during FY01. Through May, seven technologies have been deployed.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Remote Retrieval System (Brokk™ 330N with appropriate attachments)	RL-ER06	2 nd quarter	7/01 (F)
3D Visual and Gamma Imaging System (Gamma Cam)	RL-ER06	2 nd quarter	2/01 (A)
In Situ Object Counting System (ISOCS)	RL-ER06	2 nd quarter	2/01 (A)
Polyshield SS-100 Fixative	RL-ER01	12/00	12/00 (A)
Surveillance and Measurement Model 935	RL-ER01	2 nd quarter	5/01 (A)
Ultrasonic Liquid Level Detection	RL-ER06	2 nd quarter	2/01 (A)
Guzzler Vacuum Truck	RL-ER03	2 nd quarter	2/01 (A)
Laser-Assisted Ranging and Data System	RL-ER06	2 nd quarter	3/01 (A)
Compact Remote Console	RL-ER06	3 rd quarter	7/01 (F)

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

STRETCH AND SUPERSTRETCH GOALS: PM&S			
None identified at this time.			
PROJECT STATUS (COST/SCHEDULE): PM&S			
<ul style="list-style-type: none"> • Schedule: 			
Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	19,831	19,203	(628)
ER10 RL Program Management & Support	3,797	2,856	(941)
TOTAL PM&S	23,628	22,059	(1,569)



PBS-ER10 – Program Management and Support
 Schedule Variance = **(\$1569K); (6.6%)** [Last Month: (\$1239K); (6.1%)]

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

Resolution: Temporary schedule delay; subcontractor/temporary labor on board and summer student position posted.

Cause: Late billing to RL on site-wide assessments.

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



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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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

Environmental Technologies: A technical team of ERC personnel prepared a revision to Volume 3 of the Hanford Analytical Services Quality Assurance Requirements Document (HASQARD). The team consisted of expert personnel who are responsible for administration and performance of radiological, inorganic, and organic field analysis for ERC projects. Their expertise in the use and application of field analytical methods was incorporated into the revision. The revision was forwarded to Fluor Hanford (FH) for further consideration with the Hanford Site HASQARD Focus Group.

Green

Environmental Management Performance Report

July 2001

Section C - Central Plateau Information

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



Setting Up Plastic Enclosure Barrier for Asbestos Removal at the 181-N Pumphouse



200-ZP-2 Process Chiller Adjustment



Well Decommissioning

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

Financial/Performance Measures data as of month-end May.
All other data as of June 21 (unless otherwise noted).



Department of Energy



Bechtel Hanford, Inc.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION

JULY 2001

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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JULY 2001

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).

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

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

Characterization of Systems: Six white papers documenting human health risk factor recommendations were completed.

System Assessment Capability (SAC): The assessment was initiated with the SAC Rev. 0.

GROUNDWATER MANAGEMENT:

Long-Term Groundwater Monitoring: The Washington State Department of Ecology (Ecology) issued a letter approving an alternate statistical approach (Shewhart-CUSUM control chart) for the 300 Area process trenches groundwater monitoring. Ecology's proposal also allows consideration of alternate statistical approaches and a variance from applying rigid interim-status requirements at the B Pond *Resource Conservation Recovery Act of 1976* (RCRA) facility and other interim-status facilities. These alternate approaches allow evaluation on a case-by-case basis which should also be more effective and efficient.

RCRA Well Installation: The procurement package was issued for CY01 RCRA well installations. Eleven wells are planned for installation by December 31, 2001. Seventeen of the completed RCRA wells were closed to the BHI property system. The wells will be transferred to other Hanford contractors pending direction from DOE Richland Operations Office (RL).

Remediation: Well deepening was initiated at the Z9 trenches.

Carbon Tetrachloride Investigation: Planning is underway for the construction of a new groundwater well at the Plutonium Finishing Plant (PFP). The security plan for PFP was completed in support of the carbon tetrachloride investigation that will be performed in the surrounding area. Bechtel Hanford, Inc. (BHI) and Fluor Hanford (FH) approvals were also obtained.

Tritium Investigation: Soil gas sampling was completed for the tritium investigation being conducted at the 618-11 Burial Ground.

Summary of Pump and Treat/Vapor Extraction Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in May. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,435 kilograms of carbon tetrachloride, 242 kilograms of chromium, and 1.03 curies of strontium. Approximately 766 million liters of groundwater have been processed in FY01, removing approximately 853 kilograms of carbon tetrachloride, 48 kilograms of chromium, and 0.136 curies of strontium. The 200-ZP-2 soil vapor extraction system was successfully restarted in April as planned. Approximately 503 million liters of vapor were processed during May, removing 93 kilograms of carbon tetrachloride. 947 million liters have been processed in FY01, with 192 kilograms of carbon tetrachloride removed.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

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ACCOMPLISHMENTS continued: GW/VZ		
200 AREA ASSESSMENT: Approval was received from Ecology for implementing the 200-TW-1 and 200-TW-2 Tank and Scavenged Waste Operable Units Rev. 0 Work Plan and Waste Control Plan.	<table border="1"><tr><td style="border: 3px double black;">Green</td></tr></table>	Green
Green		
SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ		
See Executive Summary.		
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ		
None identified at this time.		
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ		
None identified at this time.		
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ		
<ul style="list-style-type: none">• DOE Secretarial: None identified at this time.		
<ul style="list-style-type: none">• DOE EM Performance Agreement: None identified at this time.		

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

- Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	Submit One 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/21/00 (A)
M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/21/00 (A)
M-24-46	Install Three Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)
M-24-47	Install Four Additional Wells at SST WMA T	12/31/00	12/27/00 (A)
M-24-48	Install Three Additional Wells at SST WMA TX-TY	12/31/00	12/27/00 (A)
M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/27/00 (A)
M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement	12/31/00	11/01/00 (A)
M-24-49	Install Three Additional Wells at SST WMA S-SX	4/30/01	3/30/01 (A)
M-24-50	Install Two Additional Well at SST WMA TX-TY	4/30/01	4/02/01 (A)
M-15-41A	Complete 200-TW-1 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)
M-15-42A	Complete 200-TW-2 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	12/31/01	12/31/01 (F)
M-13-00L	Submit Three 200 NPL RI/FS (RFC/CMS) Work Plans	12/31/01	12/31/01 (F)*
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	12/31/01 (F)
M-24-51	Install Three Additional Wells at SST WMA B-BX-BY	12/31/01	12/31/01 (F)
M-24-52	Install Three Additional Wells at SST WMA U	12/31/01	12/31/01 (F)
M-24-53	Install Two Additional Wells at SST WMA TX-TY	12/31/01	12/31/01 (F)
M-24-54	Install One Additional Well at SST WMA T	12/31/01	12/31/01 (F)
M-24-55	Install Two Additional Wells at SST WMA S-SX	12/31/01	12/31/01 (F)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required	12/31/01	12/31/01 (F)

Green

Yellow

Green

*M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue has been discussed with the regulators at the last two *Tri-Party Agreement* Quarterly Reviews. A draft *Tri-Party Agreement* change request is being prepared to modify M-13-00L. Regulators have indicated they will address individual milestones on a case-by-case basis.

- DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

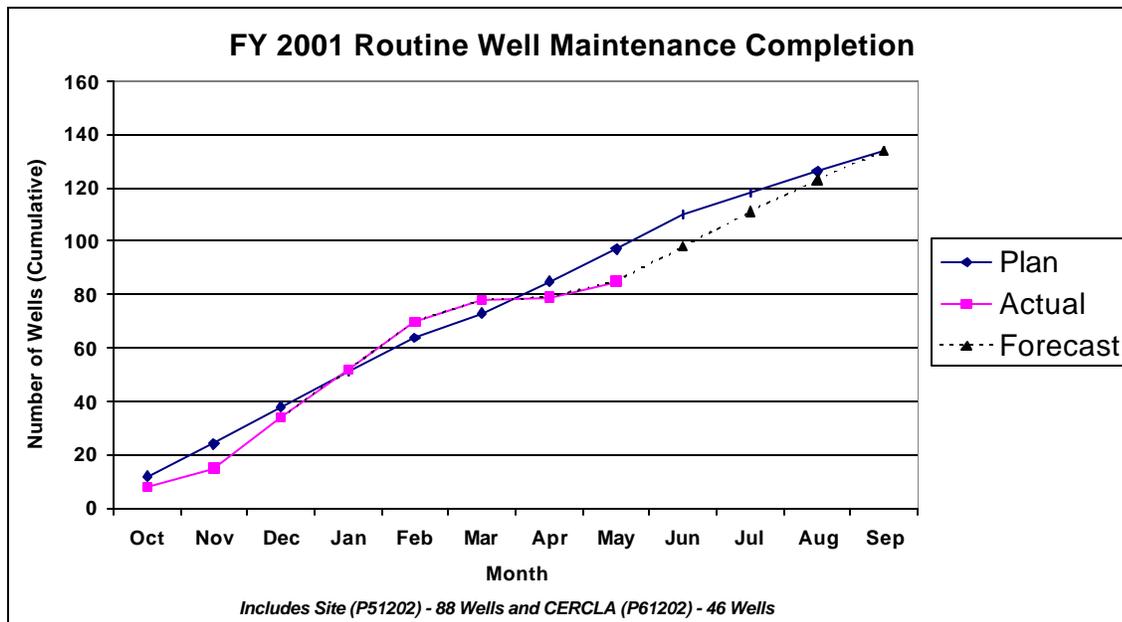
JULY 2001

PERFORMANCE OBJECTIVES: GW/VZ

PI	Task	Status
GW – ISRM Barrier	<ul style="list-style-type: none"> Drill 24 wells and inject sodium dithionite by 9/30/01 <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	In process of recovering drilling schedule; continuing to evaluate barrier performance.
GW – 618-11 Tritium Plume	<ul style="list-style-type: none"> Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01 (Stretch) <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	Work has commenced; regulators involved in well selection process.

Green

PERFORMANCE MEASURES/METRICS: GW/VZ



Green

Cumulative	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Plan	12	24	38	51	64	73	85	97	110	118	126	134
Actual	8	15	34	52	70	78	79	85	98	111	123	134
Forecast									98	111	123	134

Notes:
 Plan: Well Maintenance is planned on a quarterly basis and spread evenly by month for purposes of this graph.
 Forecast: When wells are "released" to the subcontractor for maintenance, he is given 90 days for completion. That is also spread evenly by month, for that 90-day period, for this graph.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY01 GW/VZ "Stretch" Goals	Approved BCPs (K)
Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01 (BCP 21090 approved 1/01)	\$595.4K
S/Total GW – Vadose Zone Stretch Goals:	\$595.4K

Green

FY01 GW/VZ "Superstretch" Goals	Approved BCPs (K)
*Complete Remediation of 60 Square Miles of Hanford Site: (1) River Corridor Well Decommissioning (90 wells)	\$1581.3K
S/Total GW – Vadose Zone Superstretch Goals:	\$1581.3K

Green

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): GW/VZ

- Schedule:

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	2,115	1,111	(1,004)
ER08 Groundwater Management	19,135	17,746	(1,389)
VZ01 Groundwater/Vadose Zone	7,900	6,945	(955)
TOTAL Groundwater	29,150	25,802	(3,348)

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **(\$1004K); (47.5%)** [Last Month: (\$695K); (42.8%)]

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

Resolution: Subcontract has been awarded and is scheduled to start mid-June; schedule supports completion of drilling activities by the end of September. Field closeout may carryover to FY02.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

PBS-ER08 – Groundwater Management

Schedule Variance = **(\$1389K); (7.3%)** [Last Month: (\$1663K); (10.1%)]

Cause: RCRA well drilling delayed due to waste shipments placed on hold to pursue regulator recommended approach.

Resolution: Schedule has been revised to show more aggressive plan.

Cause: Well decommissioning delays caused by extended well documentation search and selection.

Resolution: Documentation was updated to accurately account for Hanford wells. A Request for Proposal (RFP) was issued and the contractor mobilized in early May; scheduled for completion by the end of September.

Cause: Pacific Northwest National Laboratory (PNNL) groundwater modeling and monitoring on source release inventory and hydrologic assessment tasks are behind schedule due to resources deployed to higher priority work. Monitoring Network Design awaiting decisions on Low Level Burial Grounds RCRA boundary; also awaiting Ecology response letter regarding groundwater monitoring approaches for other RCRA facilities.

Resolution: Source release activities and hydrologic framework tasks are being accelerated. Ecology has transmitted a letter allowing proposals for alternate monitoring approaches; work will begin on these approaches for interim status sites.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **(\$955K); (12.1%)** [Last Month: (\$557K); (8.2%)]

Cause: The Soil Inventory Task study did not start as scheduled due to unavailability of key staff.

Resolution: Schedule variance will increase through June when staff member will return to work; partial carryover has been identified.

Cause: Shakedown runs for historical matching are taking longer than anticipated, delaying the start of the model runs and preparation of the assessment report.

Resolution: Several software and data problems have been identified, and are being addressed. Delay will not impact completion of work scheduled this year.

Cause: Delay in analyzing Vadose zone transport field study samples at the U.S. Salinity Laboratory.

Resolution: No long-term impact; data has been received from U.S. Salinity Laboratory.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

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

• **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER02 200 Area Remedial Actions	4,098	1,111	1,229	(118)
ER08 Groundwater Management	31,070	17,746	17,400	346
VZ01 Groundwater/Vadose Zone	10,639	6,945	6,703	242
TOTAL Groundwater	45,807	25,802	25,332	470

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **(\$118K); (10.6%)** [Last Month: (\$108K); (11.6%)]

Cause: Additional costs to address regulator comments and complete the 200-PW-2 Operable Unit work plan.

Resolution: Overrun has been trended.

PBS-ER08 – Groundwater Management

Cost Variance = **\$346K; 1.9%** [Last Month: \$166K; 1.1%]

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

Resolution: Underrun has been trended. Overrun has been trended. Both have been reflected in the EAC.

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = **\$242K; 3.5%** [Last Month: \$183K; 2.9%]

Cause: Phase I Features, Events, and Processes (FEP) review by Characterization of Systems (COS) required fewer resources than planned; offsetting overrun in System Assessment Capability (SAC) historical matching related to system enhancements.

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

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JULY 2001

REGULATORY ISSUES: GW/VZ

Tri-Party Agreement M-13-00x and M-20-xx Milestones: *Tri-Party Agreement* Milestone M-13-00L requires the submittal of three 200 National Priorities List (NPL) Remedial Investigation/Feasibility Study (RI/FS) work plans by December 31, 2001. One work plan is in process (200-PW-1). A change request addressing the other two work plans is being prepared and will be submitted to the Washington State Department of Ecology (Ecology). RL management, in consultation with the U.S. Environmental Protection Agency (EPA), Ecology, and the Hanford Advisory Board (HAB), developed an alternate approach for completing the assessment of the 200 Area non-tank farm operable units on the Hanford Site. The alternate approach calls for completion of the characterization of 12 representative analogous waste site operable units by 2008.

Yellow

Status: RL's long range plan is based on the alternate assessment approach for the 200 Area. This approach would require modification of several *Tri-Party Agreement* milestones including the M-13 and M-20 major milestones. *Tri-Party Agreement* change requests are being prepared and will be forwarded for regulatory review and approval. It is RL's intent to formally transmit the change requests to Ecology no later than August 31, 2001. Since these change requests affect *Tri-Party Agreement* major milestones, a public review will be required. The regulatory agencies have previously expressed interest in negotiating the 200 Area changes in conjunction with negotiation of the M-16-00F (Establish Date for Completion of All 100 Area Remedial Actions) and M-16-03A (Establish Date for Completion of 300 Area Remedial Actions).

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: GW/VZ

None identified at this time.

Surveillance/Maintenance and Transition Projects (SM&T)

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SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end May.
All other data as of June 21, 2001 (unless otherwise noted).**

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

ACCOMPLISHMENTS: SM&T

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

- Completion of approximately 75% of asbestos abatement at the 181-N Pumphouse, located in the 100 N Area. Approximately 217 cubic meters (712 cubic feet) of nonradioactive, friable asbestos were safely removed from the 181-N pumps, piping, and river screen wash systems.
- Completion of hexone laboratory sample analysis. Ten drums containing hexone waste were shipped from the 90-day storage pad. The remaining drum will be shipped in June.
- Shipment of aluminum filter frames and boxes from 100 B/C Area to ERDF for disposal.
- Receipt of strong support for the preferred alternative outlined in the B Reactor Draft A Engineering Evaluation/Cost Analysis (EE/CA) document. The preferred alternative for B Reactor is hazard mitigation for public access which received endorsement at the River and Plateau, and Communication HAB Subcommittee meetings held on May 15-16.
- Provided support to RL for the following activities: roundtable discussions with the Defense Nuclear Facilities Safety Board (DNFSB) staff on orphan waste sites and buildings; compliance review of the 10 Code of Federal Regulations (CFR) 830 for all authorization basis documents; and requests from Ecology regarding the Inactive Miscellaneous Underground Storage Tanks (IMUST) ongoing evaluation.

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.
- **Tri-Party Agreement Milestones:**
None identified at this time.

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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: SM&T				
<ul style="list-style-type: none"> DNFSB Commitment: None identified at this time. 				
PERFORMANCE OBJECTIVES: SM&T				
None identified at this time.				
PERFORMANCE MEASURES/METRICS: SM&T				
None planned in FY01.				
STRETCH AND SUPERSTRETCH GOALS: SM&T				
None identified at this time.				
PROJECT STATUS (COST/SCHEDULE): SM&T				
<ul style="list-style-type: none"> Schedule: 				
Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance	
	\$K	\$K	\$K	
ER05 Surveillance & Maintenance	9,621	8,913	(708)	
ER07 Long-Term Surveillance & Maintenance	16	26	10	
TOTAL SM&T	9,637	8,939	(698)	
<p>PBS-ER05 – Surveillance and Maintenance Schedule Variance = (\$708K); (7.4%) [Last Month: (\$992K); (11.7%)]</p> <p>Cause: In the Detailed Work Plan (DWP), the assumption was that the asbestos abatement subcontract would be awarded and expended in November 2000. Combining 100 and 200 Area asbestos work subsequently resulted in a subcontract where work will commence in April 2001 and still finish this fiscal year, causing a temporary negative schedule variance.</p> <p>Resolution: A subcontract has been placed to execute work scope activities. Work is planned from April through August 2001. Full schedule recovery is expected.</p> <p>Cause: REDOX Plant canyon roof repair subcontract bid/evaluation took longer than planned. The contract was awarded in May.</p> <p>Resolution: Work is anticipated to start in June and be completed by August 2001.</p> <p>Cause: Delayed start on herbicide/pesticide application due to weather-related conditions.</p> <p>Resolution: Temporary schedule delay; no further correction action required.</p>				
<p>PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01) Schedule Variance = N/A</p>				

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

• **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
ER05 Surveillance & Maintenance	12,608	8,913	8,245	668
ER07 Long-Term Surveillance & Maintenance	39	26	6	20
TOTAL SM&T	12,647	8,939	8,251	688

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **\$668K; 7.5%** [Last Month: \$232K; 3.1%]

Cause: Underruns in 200 Area S&M work on passive vent sealing, waste disposition, roof inspections, and asbestos abatement subcontract costs underruns are offset by hexone tank sampling cost overruns from additional engineering, additional job hazard analysis, and higher mobilization costs.

Resolution: Overall underrun has been trended and is reflected in the EAC. Sampling costs will continue to overrun and have also been trended and reflected in the EAC.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Cost Variance = N/A

REGULATORY ISSUES: SM&T

None identified at this time.

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

None identified at this time.

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

None identified at this time.

INTEGRATION ACTIVITIES: SM&T

Assisted CH2M Hill Hanford Group, Inc. (CHG) in obtaining additional land for parking facilities adjacent to the Plutonium Uranium Reduction Extraction (PUREX) facility to support construction activities. Support was also provided to FH in obtaining crane parts required for Spent Nuclear Fuel Project operations, and in obtaining tools from U Plant for use at T Plant.

Green