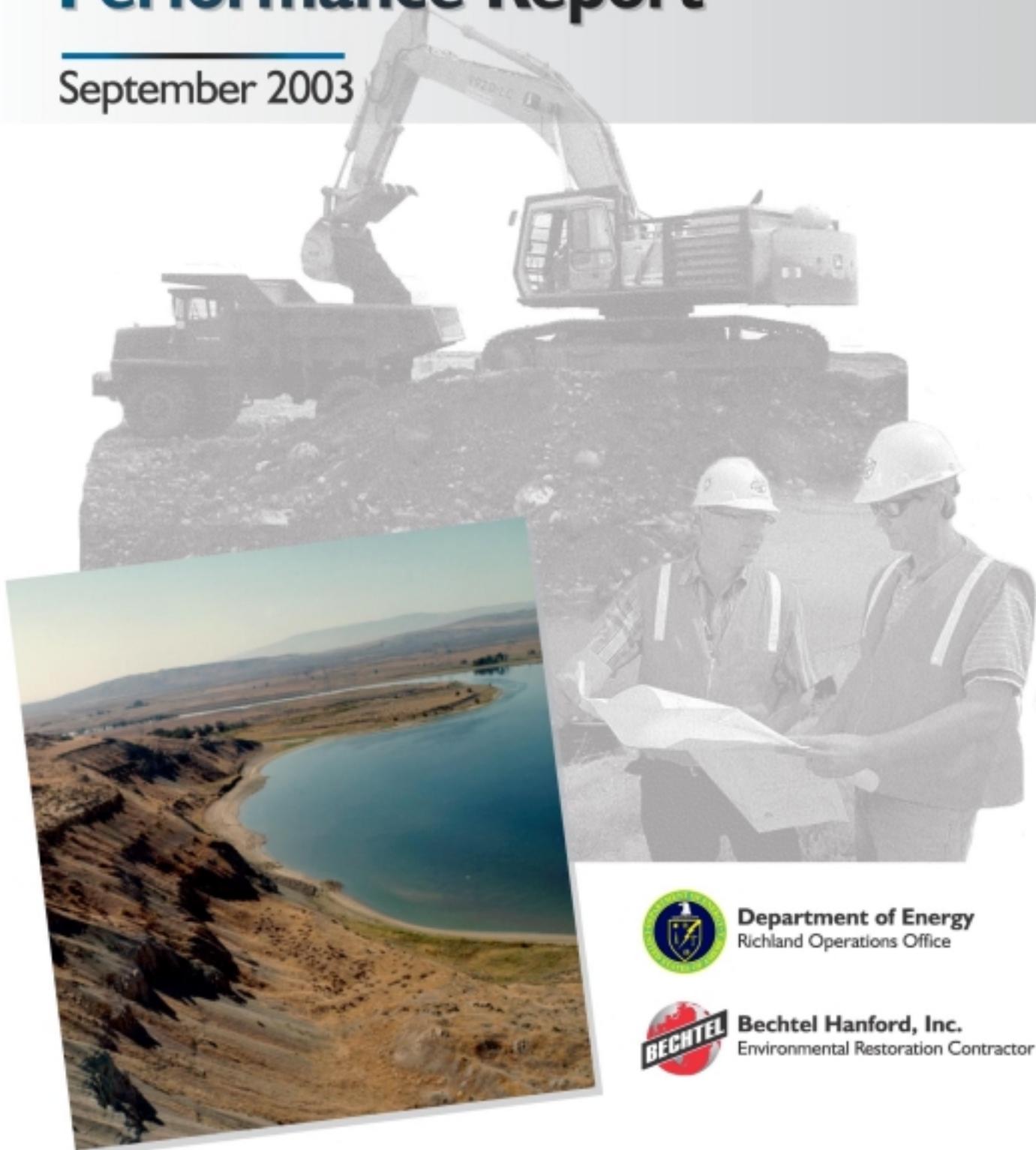


Environmental Management Performance Report

September 2003



E0310039.1



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Data as of month-end September

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
SEPTEMBER 2003

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INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report (EMPR) consists of two sections: Section A - Executive Summary, and Section B – River Corridor Restoration. All data are current as of September 30, 2003, unless otherwise noted.

Section A – Executive Summary. The Executive Summary begins with a description of notable accomplishments for the current reporting month that are considered to have made the greatest contribution toward safe, timely, and cost-effective Hanford Site cleanup. Safety statistics are also included. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones. Fiscal year 2003 (FY03) performance objectives and status are provided. Fiscal year-to-date ER Project cost and schedule variance analysis is summarized. Issues that require management and/or regulator attention are addressed along with resolution status. The Key Integration Activities section highlights site activities that cross contractor boundaries, supporting overall Hanford Site goals. The Executive Summary ends with a listing of major upcoming planned key events (90-day look ahead).

Section B – River Corridor Restoration. This section contains more detailed Environmental Restoration Contractor (ERC) monthly activity information and performance status for the three Project Baseline Summaries (PBSs) within the River Corridor Restoration outcome. These three PBSs consist of RC01 - 100 Area River Corridor Cleanup, RC02 - 300 Area Cleanup, and RC05 - River Corridor Waste Management.

PBS SC01 - Near-Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY03 workscope identified for this PBS, SC01 performance data is included in the Executive Summary cost/schedule overview.

Performance Incentive and Safety 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 that require immediate corrective actions.

Section A - Executive Summary



Loading Out Material from 116-KW-3 Retention Basin



Unloading 618-4 Burial Ground Drums in Oak Ridge



H Reactor FSB Cleanout Using the Brokk



B Reactor – After Concrete Block Repairs/Painting

Data as of month-end September

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SECTION A – EXECUTIVE SUMMARY

Data as of month-end September

NOTABLE ACCOMPLISHMENTS

Fiscal year 2003 (FY03) demonstrated another year of substantial progress in Hanford Site environmental restoration activities in the 100 and 300 Areas. Bechtel Hanford, Inc. (BHI), along with preselected subcontractors CH2M Hill Hanford, Inc., and Eberline Services Hanford, Inc., has made significant visible progress in cleaning up the Hanford Site since the environmental restoration contract was awarded in July 1994. FY03 cleanup activities involved remedial action and waste disposal, reactor interim safe storage (ISS), decontamination and decommissioning (DD), surveillance and maintenance of deactivated facilities, and project support. This month's performance report has been expanded to identify the significant accomplishments that were achieved in all areas of the Hanford Site Environmental Restoration (ER) Project throughout FY03.

River Corridor Restoration:

Excavation of 20 waste sites was completed in the 100/300 Area during FY03 (8 sites were originally planned). An additional 29 waste sites that did not require excavation were also administratively closed.

Excavation and removal of the 100 B/C Area base contract pipeline work was completed on September 29. Remediation is progressing on plumes encountered during pipeline excavation.

A Request for Proposal (RFP) for remediation of 100 B/C Area Burial Grounds and Remaining Sites was sent to potential bidders on September 24. Contract award is scheduled for early December with field work starting in January 2004.

Backfill of 30 liquid waste sites was completed in the 100 F Area on May 20. This marked the completion of Tri-Party Agreement Milestone M-16-13B (due October 29, 2004) more than 17 months ahead of the milestone schedule and included 14 additional waste sites.

On December 11, 2002, remediation activities were initiated at the 116-KW-3 Retention Basin, which satisfies achievement of Tri-Party Agreement Milestone M-16-10A (due August 1, 2003) more than seven months ahead of schedule.

A small-business design subcontract was awarded in May to address the elevated radiological dose and airborne levels in the 116-N-1 Crib. Test excavation of the 116-N-1 Crib was completed on July 10. The radiological data results will be used for remediation redesign of the crib. An RFP for remediation of the 116-N-1 Crib is being prepared and will be issued to pre-qualified bidders in October.

The 300 Area regrading RFP was sent to potential bidders on August 29. Four bids were received on September 26. The proposals are being evaluated, and award is scheduled for early October.

In January, ERC reached a milestone when the 4-millionth ton of contaminated waste was disposed in the Environmental Restoration Disposal Facility (ERDF). During FY03, more than 634,000 metric tons (700,000 tons) of contaminated material were disposed in ERDF. A total of 4.1 million metric tons (4.5 million tons) of waste have been disposed in ERDF since operations began in July 1996.

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ACCOMPLISHMENTS (continued)

During September, all of the drummed depleted uranium chips-in-oil waste that was excavated from the 618-4 Burial Ground and temporarily staged at ERDF was shipped to Oak Ridge, Tennessee for treatment to meet land disposal restrictions.

Construction and construction quality assurance contracts were awarded for the ERDF Cells 5 and 6 expansion project. A Notice to Proceed was given to the subcontractor on August 19 for mobilization and construction of ERDF Cells 5 and 6.

Demolition and loadout of three facilities were completed by the end of June which included the 117-DR Filter Building, 118-C-4 Horizontal Rod Storage Cave, and 1720-HA Arsenal (accelerated scope).

Reactor ISS work achieved substantial progress in the 100 Area during FY03. The DR Reactor S&M Plan was approved on January 29 by the regulators. Approval of this plan satisfies completion of Tri-Party Agreement Milestone M-93-16 (due September 30, 2003), eight months ahead of schedule. F Reactor safe storage enclosure (SSE) construction activities were completed on August 21. On May 22, a subcontract was awarded for D Reactor SSE roof design and installation. Through September, D Reactor ISS is 90% complete. Significant effort was focused on cleanout of the H Reactor FSB during FY03. A night shift was initiated on August 24 to expedite FSB cleanout and to reduce the source of mud for mud dauber wasp nests. Fixative applications were completed in Sections 1 and 2 of the FSB. Through September, H Reactor ISS is 56% complete.

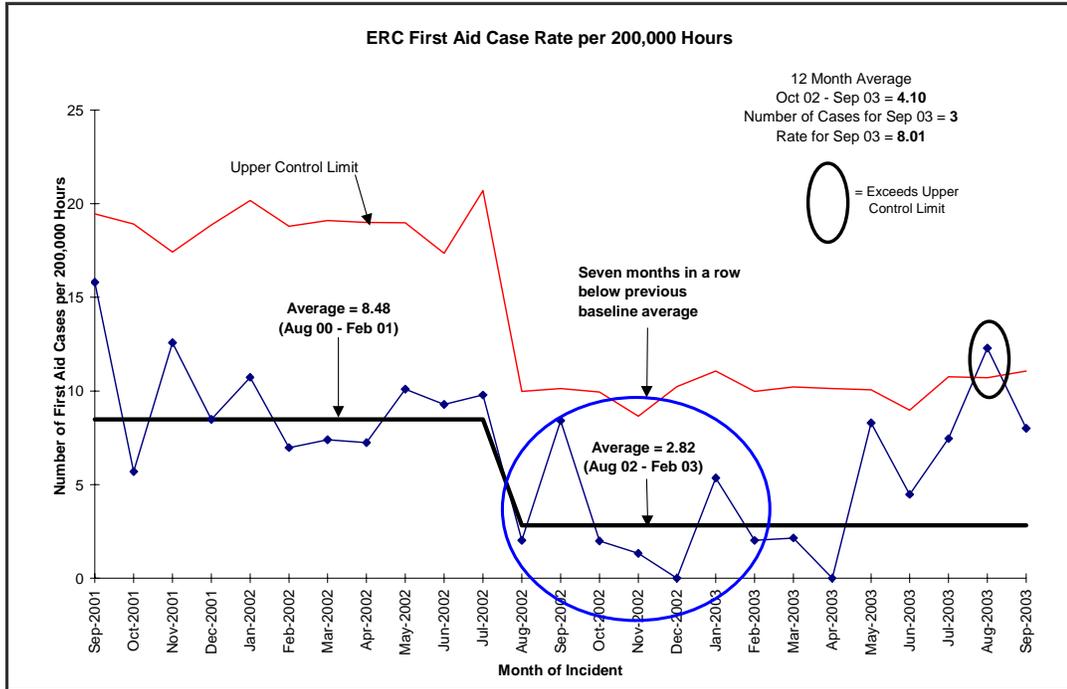
Several significant surveillance and maintenance (S&M) activities were accomplished during FY03. During October 2002, hazardous material warning signage was fabricated and posted along the Columbia River in support of the Hanford Site institutional control plan. Annual surveillances were completed for KE/KW Reactors and 100 N Area (16 buildings and 50 facilities). Asbestos abatement activities were completed at the 109-N steam generator facility and 1304-N emergency dump tank. Hazard mitigation tasks continued at B Reactor.

The first 5-year surveillance of C Reactor (currently in ISS) was completed in December 2002. A white paper was prepared recommending the current surveillance frequency be extended from a five-year cycle to a ten-year cycle due to no significant changes since the reactor was placed in ISS.

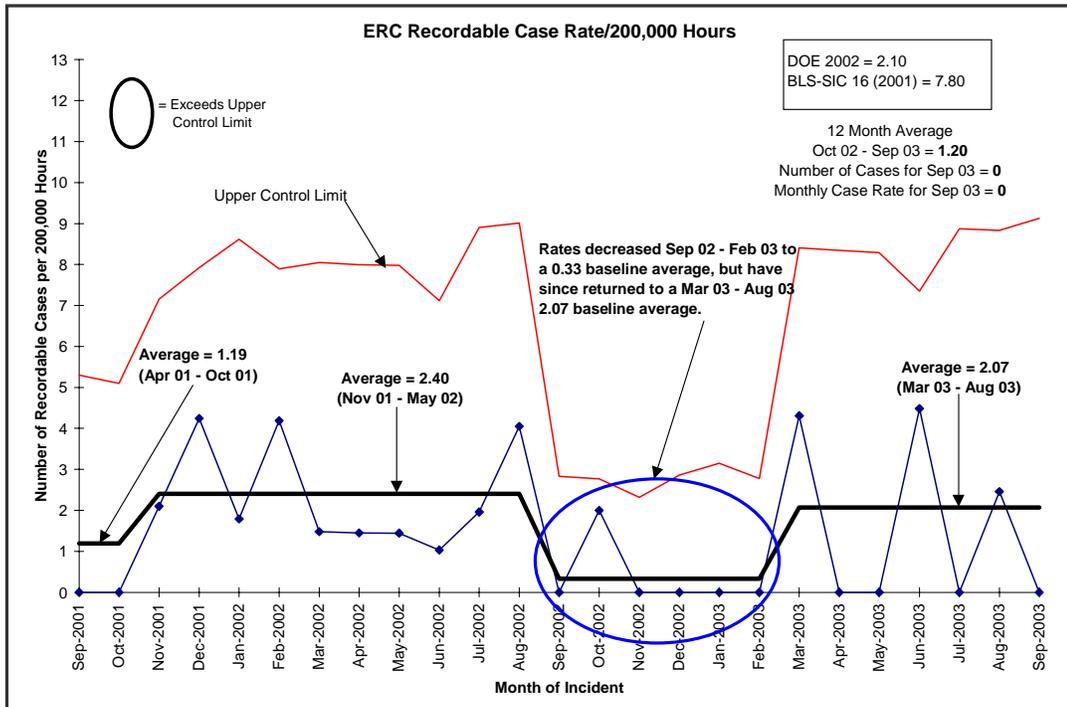
Eleven technologies were deployed during FY03 in support of the 100/300 Area cleanup remediation effort.

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SAFETY



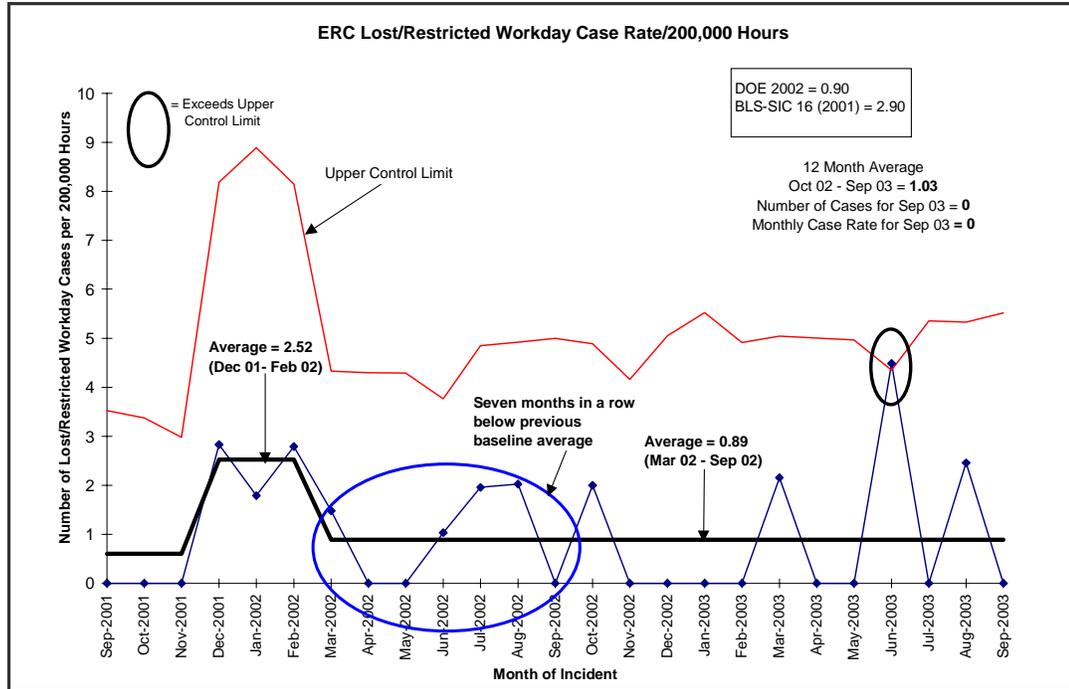
NOTE: The ERC has experienced five consecutive months with rates above the baseline average.



NOTE: This data has been stable since March 2003.

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SAFETY continued:



NOTE: With the exception of June 2003, this data has been stable since March 2002.

Safety:

The following actions have or are being taken by the Environmental Restoration Contractor (ERC) to focus on safety improvements:

- The Subcontract Technical Representatives (STRs) continue to review and enhance "Exhibit G", Subcontractor Health and Safety Requirements.
- The STRs perform periodic self-assessments for subcontractor compliance to contract requirements.
- Bechtel Hanford, Inc. (BHI) continues to hold Incident Review Board meetings to ensure that the ERC has correctly and thoroughly determined the cause of any incidents and identified correctable opportunities. In addition, lessons learned based on these incidents are used to prevent future occurrences.
- All incidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that can be implemented where applicable. Timely discussions take place in safety meetings and plan of the day (POD) meetings. When investigations are complete, the results are sent to the Area Superintendents, Field Superintendents, and Supervisors for review at the PODs.
- BHI continues to look for trends and consults with Corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- The ERC continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.

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SAFETY continued:

- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment to safety.
- The Field Support General Superintendent, Subcontract Manager, and Project Safety Manager continue to visit different projects on a regular basis, meet with project team members, and conduct safety walkarounds. Area Superintendents for Decontamination and Decommissioning projects and Surveillance and Maintenance projects are included in these walkarounds. The walkaround participants visit projects other than those for which they are responsible. Information from the walkarounds 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. This activity is ongoing.
- Field Support personnel conduct weekly safety inspections. Findings are entered into a database and tracked to closure. Daily inspections are also performed and logged in the project's daily logbook or daily report.
- Management continues to emphasize to all employees the importance to stay focused on their work and to continue with a questioning attitude.
- Field Support, Design Engineering, Environmental Engineering, Safety, and Radcon are working together to address Bio-Vector hazards on ERC projects.

	FYTD	Current Period (08/18/03- 09/14/03)	Current Period Comments
First Aid	24	3	Contusion/bruise (1), burn (1), foreign body (1)
OSHA Recordable	7	0	
Restricted Workday Case	4	0	
Lost Workday Case	2	0	

Status:

As of September 30, 2003, the ERC had worked approximately 130,000 hours without a lost workday case. The last incident occurred on August 8, 2003 and became lost time on August 13, 2003. Continuous employee involvement is being fostered by the Integrated Environmental Safety and Health Management System (ISMS), Voluntary Protection Program (VPP), labor alliance programs, e-mail communications, and one-on-one meetings with employees.

During the period October 1, 2002 through September 30, 2003, the ERC experienced 22 first aid incidents, 6 lost/restricted incidents, and 1 recordable-only incident, which equates to having **92% of our workdays injury free**. During this time period, the ERC experienced a string of 68 consecutive **injury-free** workdays.

The ERC continues to work diligently to provide accurate and timely reporting of occurrences, and to conduct followup fact-finding critiques to identify problems and improve safe field operations.

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SAFETY continued:

A BHI Work Injury Review Team, consisting of both craft and nonmanual employees, was formed under the sponsorship of the VPP Leadership Council to look at the increase in work-related injuries in June. The team presented their findings and offered recommendations to the Council at a special meeting in August. The recommendations centered around better hazard awareness, ergonomics, and appropriate response to work injuries, particularly muscular/skeletal injuries. A select group, consisting of members of the Council along with representatives from the Safety and Health and Field Support organizations, is following up on actions to address the recommendations.

Field Support, Design Engineering, Safety, Procurement, and RadCon are incorporating stringent safety requirements and lessons learned from other ERC projects into the 300-FF-1 and 300-FF-2 Requests for Proposal to ensure upcoming work is executed safely.

BHI held its quarterly Senior ALARA Committee meeting in September. The committee reviewed the ERC performance towards the FY03 ALARA goal. As of September 18, the ERC had a collective dose total of 3.9 person-rem. The FY03 ALARA goal is 5.1 person-rem. Additionally, the ERC approved FY04 ALARA goal of 2.4 person-rem and an individual Administrative Control Limit of 500 mrem.

Integrated Environmental Safety and Health Management System (ISMS):

An occurrence report was written in June to document the discovery of contaminated mud dauber wasp nests located outside the posted H Reactor fuel storage basin (FSB). A lessons learned report identified the need to establish a policy to ensure the project design, hazard identification, and the work planning processes address bio-vector hazards. A thorough review of the BHI procedures was conducted, and minor changes were proposed for five procedures to correct the deficiency. Also, a biological transport vector plan will be written as well as a checklist to help identify whether a project or task has the potential to attract bio-vectors. The checklist will be used by the project environmental leads, STRs, and subcontract field engineers during their walkdowns to assure that biological transport is adequately addressed prior to planning and implementing field activities.

A meeting was held with representatives from the U.S. Department of Energy (DOE) Richland Operations Office (RL), Hanford Fire Department (HFD), and Pacific Northwest National Laboratory (PNNL) to discuss expectations and participation of cultural and natural resources staff in fire management on the Hanford Site. The objective of the meeting was to coordinate cultural and natural resource protection with the need to safely and quickly extinguish wildfires. A commitment was made to provide the HFD with a cultural resources "sensitivity" map of the Site to assist in predeterminations of where control points, fire breaks, staging areas, etc., may be established with the least destruction to significant resources.

F Reactor has been home to maternity colonies of Pallid bats and Myotis bats, which are given priority species status by Washington State at communal roosts and breeding areas. A mitigation plan was prepared to prevent bats from being trapped inside the reactor when it was closed up. The doors were left open temporarily and a one-way exclusion device was installed to allow the bats to leave, but not return. Six new bat houses were placed outside of the building and some are now being occupied by the Pallid bats which were the main species driving the mitigation effort. The Myotis species are also using bat houses put up on the reactor. This mitigation effort was strongly supported by project management and staff, and as a result, appears to be quite successful.

Concurrence was received from Washington State Fish and Wildlife Department to control mulberry bushes growing along N-Springs shore. Applications were completed in early September within the

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SAFETY continued:

guidelines outlined by the Washington State Fish and Wildlife Department and manufacturer product labels.

The annual 100% chemical inventory verification was initiated on August 4 and was completed on September 15. Each chemical storage area was visited to verify the chemical inventory reported within the chemical inventory database (CID), with what was actually in the physical inventory. This information was used to correct any errors within the CID and satisfied the third quarter chemical update requirements. This information was also used to complete the third quarter chemical inventory and support a management assessment, which was completed on August 28.

A review of more than 30 record boxes containing 300 Area radioactive waste shipment records (RSR) for 1951-1954 is being conducted to provide an estimate of the inventory of irradiated fuel residues (i.e., lab waste) in the 618-2 Burial Ground. The very high dose rates associated with irradiated fuel are readily converted to mass quantities for waste shipment to the burial ground. The RSR record data will be used to provide a defensible estimate of the burial ground inventory of fission products sufficient to discount the WIDS inventory value that has no traceable source. A revised lower fission product inventory is required to maintain the 618-2 Burial Ground below a Category 3 hazard rating. Any hazard rating Category 3 and above would require significantly increased nuclear safety documentation.

A self-assessment was conducted on the programs that identify the process of generating, maintaining, and retrieving information entered into the environmental reports submitted to RL. Five opportunities for improvement were identified for consideration and/or action by Regulatory Support.

Independent assessments were completed relative to heat stress management for ERC and subcontractors. The assessment included two Corrective Action Requests (CAR), two Unsatisfactory Corrected Immediately (UCI) items, and four observations. The two CARs dealt with an inadequate RadCon procedure and with lack of documentation of RadCon survey results. The UCIs involved an inadequate Industrial Hygiene form and lack of calibration information involving a deep-body core temperature pill.

The FY04 independent assessment and self-assessment schedules were issued.

The QA Program requirements for FY04 were developed and submitted to Quality Services.

BHI continues to play an active role in the implementation of the ISMS metrics program. Data continues to be collected monthly and quarterly. A quarterly report will be issued to RL in late October. Considerable progress has been made in developing a performance metric to evaluate the effectiveness of BHI's assessment program. Additionally, decision criteria have been proposed for the ALARA metric.

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MAJOR COMMITMENTS

Tri-Party Agreement Milestones: Two (2) Tri-Party Agreement milestones were planned for completion during FY03. A total of three (3) Tri-Party Agreement milestones were completed in FY03.

Total Tri-Party Agreement Milestones Due in FY03	2
Total Planned through September	2
Total Completed through September	3

Remaining Tri-Party Agreement Milestones to be Completed in FY03	0
Forecast Ahead of Schedule	0
Forecast On Schedule	0

Tri-Party Agreement Milestone M-16-10A, "Initiate Remedial Action in the 100-KR-1 Operable Unit", (due August 1, 2003) was completed on December 11, 2002 more than seven months ahead of schedule.

Tri-Party Agreement Milestone M-93-16, "Complete 105-DR Reactor Interim Safe Storage" (due September 30, 2003), was completed on January 29, 2003 eight months ahead of schedule.

Tri-Party Agreement Milestone M-16-13B, "Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area" (due October 29, 2004), was completed on May 20, 2003 more than 17 months ahead of schedule. An additional 14 waste sites were also backfilled, which made a total of 30 waste sites completed.

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PERFORMANCE OBJECTIVES

BHI focus area performance incentives are noted below. Specific River Corridor performance incentives are identified in Section B.

PIs - October through December 2002:

PI	Fee Allocation	Task	Status
 Execute Detailed Work Plan	Incentive fee shall not exceed 100%; if SPI is less than 75% at end of contract period, no fee shall be awarded.	Perform to approved DWP through contract period ending 12/31/02 in accordance with the SPI provision.	Through December, the SPI was 1.10, or 10% ahead of schedule. A Notice of Completion (NOC) was submitted to RL on February 21 for the October through December time frame. RL approved the NOC on May 6.
 Safety	Up to 50% of fee available for this PI may be forfeited if failure to satisfactorily meet PI in accordance with applicable requirements.	Protect worker safety and health, public safety and health, and the environment.	No issues or negative findings were identified with regard to the 14 applicable performance failure criteria associated with this PI through December. A NOC was submitted to RL on March 4 for the October through December time frame. RL approved the NOC on May 6.

PI - January through June 2003:

PI	Fee Allocation	Task	Status
 Safety	Up to 50% of fee available for this PI may be forfeited if failure to satisfactorily meet PI.	Protect worker safety and health, public safety and health, and the environment.	No significant issues or findings were identified January 1 through June 30, 2003, with regard to the 14 applicable performance failure criteria associated with this PI. During this time period, ERC experienced 13 first aid incidents, 4 lost/restricted incidents, and 1 recordable-only incident, which equates to having 91% of our workdays injury free. As of June 30, 2003, ERC worked approximately 60,500 hours since the last lost workday incident which occurred on June 4, and became lost time on June 11. NOC package was transmitted to RL on August 7.

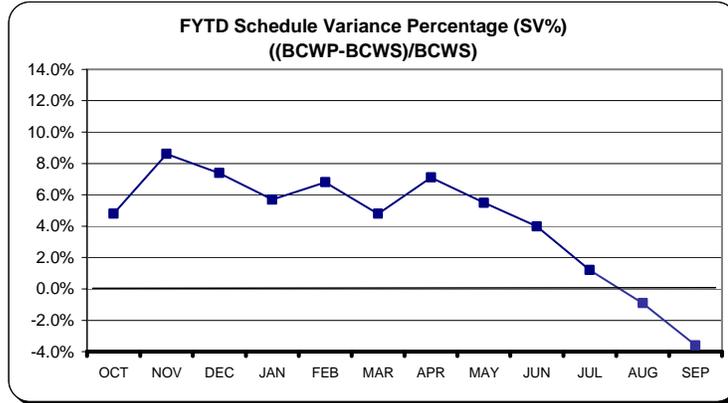
PI - July through October 2003:

PI	Fee Allocation	Task	Status
 Safety	Up to 50% of fee available for this PI may be forfeited if failure to satisfactorily meet PI.	Protect worker safety and health, public safety and health, and the environment.	An RL assessment, presented to BHI September 15, documented numerous instances where implementation and oversight of the radiological contamination survey program required improvement. Corrective actions were initiated before the assessment was finished and are ongoing. There are long-term corrective actions that are scheduled for completion in January 2004. There were no other significant issues or findings identified July 1 through September 30, 2003 with regard to the 14 applicable performance failure criteria associated with this PI. During this period, ERC personnel experienced 9 first aid incidents and one recordable/lost away case. As of September 30, ERC personnel worked approximately 130,000 hours since the last lost workday incident (illness) which occurred on August 8 and became lost time on August 13.

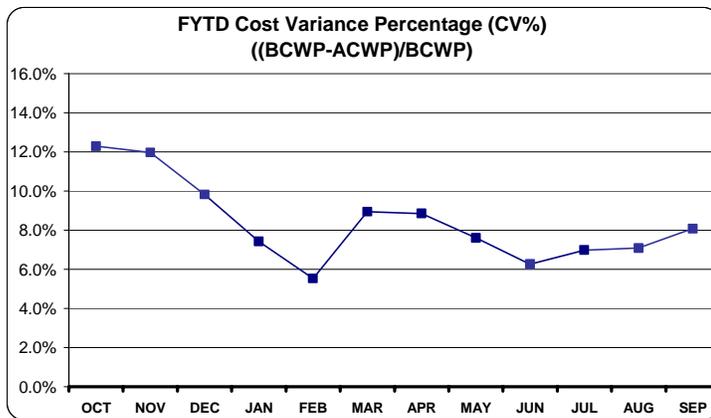
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TOTAL ERC COST/SCHEDULE OVERVIEW

**FY03 ERC PERFORMANCE SUMMARY
FYTD SEPTEMBER 2003
(\$K)**



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	8,451	8,521	9,154	8,467	8,304	10,768	8,608	8,797	10,797	8,997	10,602	9,997
DWP (Accum)	8,451	16,973	26,127	34,594	42,898	53,666	62,274	71,071	81,868	90,865	101,466	111,463
CURRENT PERIOD												
BCWS	8,898	8,767	10,438	8,556	8,531	10,764	9,164	10,223	11,423	8,257	12,478	14,784
BCWP	9,322	9,863	10,993	8,579	9,484	10,384	11,124	9,700	10,777	5,928	10,331	11,396
FISCAL YEAR TO DATE												
BCWS	8,898	17,665	28,103	36,659	45,190	55,955	65,119	75,342	86,765	95,021	107,499	122,284
BCWP	9,322	19,185	30,178	38,757	48,241	58,625	69,749	79,449	90,226	96,153	106,485	117,881
SV	424	1,520	2,075	2,098	3,051	2,670	4,630	4,107	3,461	1,132	(1,014)	(4,403)
SV%	4.8%	8.6%	7.4%	5.7%	6.8%	4.8%	7.1%	5.5%	4.0%	1.2%	-0.9%	-3.6%



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC
CURRENT PERIOD													
ACWP	8,177	8,713	10,324	8,670	9,689	7,810	10,196	9,832	11,164	4,871	9,503	9,423	
BCWP	9,322	9,863	10,993	8,579	9,484	10,384	11,124	9,700	10,777	5,928	10,331	11,396	
FISCAL YEAR TO DATE													
ACWP	8,177	16,890	27,214	35,883	45,572	53,382	63,578	73,410	84,574	89,445	98,948	108,371	
BCWP	9,322	19,185	30,178	38,757	48,241	58,625	69,749	79,449	90,226	96,153	106,485	117,881	
CV	1,145	2,295	2,964	2,874	2,669	5,243	6,171	6,039	5,652	6,708	7,537	9,510	
CV%	12.3%	12.0%	9.8%	7.4%	5.5%	8.9%	8.8%	7.6%	6.3%	7.0%	7.1%	8.1%	
EAC (Cumulative)	8,177	16,890	27,214	35,883	45,572	53,382	63,578	73,410	84,574	89,445	98,948	108,371	112,897

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TOTAL ERC COST/SCHEDULE OVERVIEW (continued)

**FY03 ERC PBS PERFORMANCE SUMMARY
FYTD SEPTEMBER 2003
(\$K)**

	FY03 DWP BCWS	CURRENT BCWS	FYTD			FYTD SCHEDULE VARIANCE			FYTD COST VARIANCE			EAC
			BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI	
RC01	65,900	71,507	71,507	68,939	63,990	-2,568	-3.6%	0.96	4,949	7.2%	1.08	66,647
RC02	12,608	13,046	13,046	12,647	10,643	-399	-3.1%	0.97	2,004	15.8%	1.19	11,053
RC05	32,855	37,633	37,633	36,199	33,677	-1,434	-3.8%	0.96	2,522	7.0%	1.07	35,135
RCR-Subtotal	111,363	122,186	122,186	117,785	108,310	-4,401	-3.6%	0.96	9,475	8.0%	1.09	112,835
SC01	100	98	98	96	61	-2	-2.0%	0.98	35	36.5%	1.57	
SS-Subtotal	100	98	98	96	61	-2	-2.0%	0.98	35	36.5%	1.57	62
ERC TOTAL	111,463	122,284	122,284	117,881	108,371	-4,403	-3.6%	0.96	9,510	8.1%	1.09	112,897

Schedule Variance Summary:

Through September, the ER Project is \$4.4M (-3.6%) behind schedule. The negative schedule variance is attributed to delay in 100 B/C cleanup verification package (CVP) due to plumes, 100 Area Remaining Sites sampling behind schedule due to late start and requiring multiple design packages, ERDF Transportation and Disposal behind schedule due to 100 Area remediation delays, and deferred final performance fee payments. Excluding planned carryover scope, FY03 schedule variance is \$2.1M (-1.8%) behind schedule.

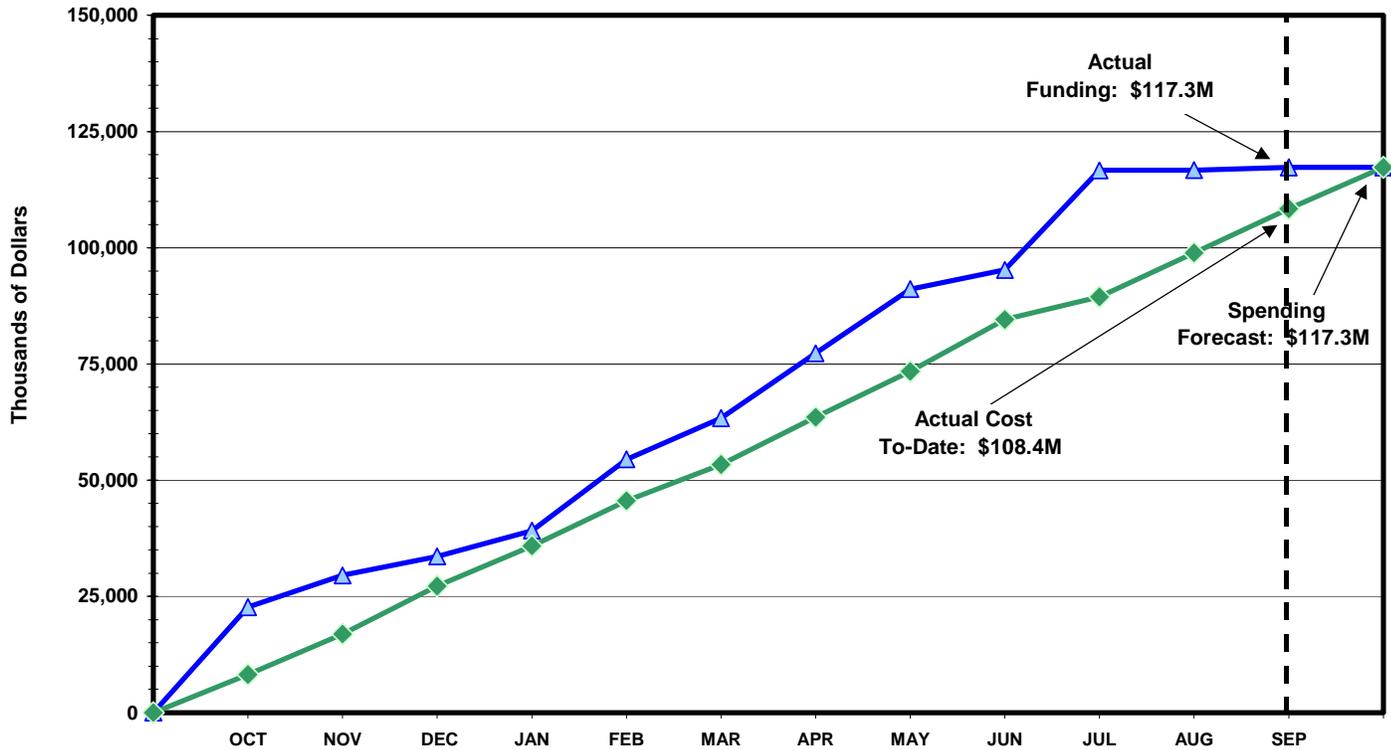
Cost Variance Summary:

At the end of September, the ER Project had performed \$117.9M worth of work, at a cost of \$108.4M. This results in a favorable cost variance of \$9.5M (+8.1%). The positive cost variance is attributed to consolidating common 618-4 and 618-5 Burial Ground remediation activities, fewer resources required for 100 B/C pipeline remediation than planned, development of both the uranium chips-in-oil and uranium oxide treatment plans were simplified resulting in cost underruns, less program management support to projects than planned, and prior-year rebill accounting adjustments that were realized in March.

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ENVIRONMENTAL RESTORATION
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TOTAL ERC COST/SCHEDULE OVERVIEW (continued)

FY03 FUNDING VS. FORECAST EXPENDITURES (EAC)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Est Outyr ETC	TOTAL
FUNDING THROUGH SEPTEMBER FY2003														
1	FY03 ER FUNDING	22,717	29,506	33,639	39,169	54,469	63,381	77,303	91,111	95,232	116,650	116,690	117,117	
2	Other Funding (RC01,SS03,SS04,CP01,SS01)												177	
3	TOTAL ER PROJECT FY03 FUNDING	22,717	29,506	33,639	39,169	54,469	63,381	77,303	91,111	95,232	116,650	116,690	117,294	117,294
ACTUAL COSTS THROUGH SEPTEMBER FY2003														
4	Current Monthly Actuals/EACs	8,177	8,713	10,324	8,670	9,689	7,810	10,196	9,832	11,164	4,871	9,503	9,423	
5	Cumulative Actuals/EACs	8,177	16,890	27,214	35,884	45,573	53,382	63,578	73,410	84,574	89,445	98,948	108,371	112,897
6	Other Scope (Includes River Corridor Transition, Contract Closeout, etc.)												23	4,397
7	TOTAL ER CONTRACT	8,177	16,890	27,214	35,884	45,573	53,382	63,578	73,410	84,574	89,445	98,948	108,394	117,294

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ISSUES (REGULATORY/EXTERNAL/DOE)

See Section B issues.

KEY INTEGRATION ACTIVITIES

See Section B key integration activities.

UPCOMING PLANNED KEY EVENTS

Transition ER River Corridor workscope.

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SECTION B – RIVER CORRIDOR RESTORATION

Data as of month-end September

ACCOMPLISHMENTS

A number of significant ER River Corridor accomplishments were achieved during FY03. These accomplishments are summarized below by PBS.

100 Area River Corridor Cleanup (RC01):

Excavation of 18 waste sites was completed in the 100 Area during FY03 (6 sites were originally planned). An additional 29 waste sites that did not require excavation were also administratively closed.

Excavation and removal of the 100 B/C Area base contract pipeline work was completed on September 29. Remediation continued on plumes encountered during pipeline excavation.

A Request for Proposal (RFP) for remediation of 100 B/C Area Burial Grounds and Remaining Sites was sent to potential bidders on September 24. Contract award is scheduled for early December with field work starting in January 2004.

The 100 Area B/C Pilot Study Data Quality Objective (DQO) Summary Report, Rev. 0, was issued the first week of March. A presentation of the 100 Area B/C Pilot Study was provided to the Hanford Advisory Board River and Plateau Committee. Results of the DQO and the approach to the sampling plan were presented. Additionally, an independent peer review was conducted for the 100 B/C Pilot Study Ecological Risk Assessment Sampling and Analysis Plan (SAP) in April. The review panel consisted of experts from the Institute of Regulatory Science in the fields of geohydrology, ecological risk assessment, CERCLA site closures, and statistics. RL and the U.S. Environmental Protection Agency (EPA) presented the background and reasons for the study. The 100 B/C Pilot Study project team presented the site-specific remediation background and the technical approach for the study. The peer review panel submitted a final report on their findings and recommendations, which was submitted to RL on May 30.

Backfill of 30 liquid waste sites was completed in the 100 F Area on May 20. This marked the completion of Tri-Party Agreement Milestone M-16-13B, "Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area" (due October 29, 2004). The remediation activities were completed more than 17 months ahead of the milestone schedule and included 14 additional waste sites.

On December 11, 2002, remediation activities were initiated at the 116-KW-3 Retention Basin, which satisfies achievement of Tri-Party Agreement Milestone M-16-10A, "Initiate Remedial Action in the 100-KR-1 Operable Unit," (due August 1, 2003) more than seven months ahead of schedule. Excavation and variance sampling were completed for 116-KW-3 Retention Basin in September. Excavation of the 116-K-1 Crib and 100-KW-55 west pipelines are progressing.

The 100 F Area Burial Grounds and Remaining Remove, Treat, and Dispose (RTD) Sites design was completed in September.

Backfill and revegetation of the 120-N-1 and 120-N-2 waste sites located in the 100 N Area were completed in January.

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ACCOMPLISHMENTS (continued)

RL, EPA, and the Washington State Department of Ecology (Ecology) approved the 116-N-1 Explanation of Significant Difference (ESD) on May 27. This is the first ESD to invoke the "balancing factors" to determine the extent of excavation below 4.5 meters (15 feet). The institutional controls (ICs) were expanded to prohibit irrigation at the 116-N-1 waste site based on these balancing factors. The result of prohibiting irrigation and maintaining ICs prevented further excavation in the deep zone for a cost avoidance of \$54 million.

A small-business design subcontract was awarded in May to address the elevated radiological dose and airborne levels in the 116-N-1 Crib. Test excavation of the 116-N-1 Crib was completed on July 10. The radiological data results will be used for remediation redesign of the crib. An RFP for remediation of the 116-N-1 Crib is being prepared and will be issued to pre-qualified bidders in October.

Demolition and loadout of three facilities were completed by the end of June which included the 117-DR Filter Building, 118-C-4 Horizontal Rod Storage Cave, and 1720-HA Arsenal (accelerated scope).

The DR Reactor interim safe storage (ISS) closeout report was issued on January 20. The Surveillance and Maintenance Plan for DR Reactor safe storage enclosure (SSE) was approved by the regulators on January 29. Approval of this plan satisfies completion of Tri-Party Agreement Milestone M-93-16, "Complete 105-DR Reactor Interim Safe Storage" (due September 30, 2003), eight months ahead of schedule. The draft DR Reactor cleanup verification package (CVP) was transmitted to RL and Ecology for review in August.

Shipment of the F Reactor fuel storage basin (FSB) demolition debris was completed on November 13, 2002. This action met the performance incentive to complete demolition and dispose of the FSB waste by November 20, 2002.

F Reactor SSE construction activities were completed on August 21. A few open items remain and also bat mitigation efforts required before the reactor is closed up. The *Surveillance and Maintenance Plan for the 105-F Reactor Safe Storage Enclosure, Draft A*, was transmitted for review to RL on September 16 for subsequent transmittal to the regulators.

In July, all backfill and site grading were completed at D Reactor FSB, north/south water tower pits and surrounding areas. On May 22, a subcontract was awarded for D Reactor SSE roof design and installation. Through September, D Reactor ISS is 90% complete.

Significant effort was focused on cleanout of the H Reactor FSB during FY03. A night shift was initiated on August 24 to expedite FSB cleanout and to reduce the source of mud for mud dauber wasp nests. Fixative applications were completed in Sections 1 and 2 of the FSB. To date, a total of eight spent fuel elements have been found during H Reactor FSB excavation. Through September, H Reactor ISS is 56% complete.

The 100 N Area ancillary facilities Removal Action Work Plan was completed and approved by RL and the regulators in June.

Several significant surveillance and maintenance (S&M) activities were accomplished during FY03. During October 2002, hazardous material warning signage was fabricated and posted along the Columbia River in support of the Hanford Site institutional control plan. Annual surveillances were completed for KE/KW Reactors and 100 N Area (16 buildings and 50 facilities). KE Reactor roof repairs were also completed. Asbestos abatement activities were completed at the 109-N steam generator facility,

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ACCOMPLISHMENTS (continued)

including the roof-mounted ventilation duct. Asbestos abatement activities were also completed for the 1304-N emergency dump tank. All 100/300 Area herbicide applications were completed as planned.

The first 5-year surveillance of C Reactor (currently in ISS) was completed in December 2002. A white paper was prepared recommending the current surveillance frequency be extended from a five-year cycle to a ten-year cycle due to no significant changes since the reactor was placed in ISS.

Hazard mitigation tasks continued at B Reactor during FY03 including electrical repairs, lead paint encapsulation, and fire protection upgrades. A subcontract was awarded in June for B Reactor ventilation upgrades; work was initiated in July. B Reactor storage room roof repairs were also finished. In addition, B Reactor exterior concrete block repairs and painting were completed in September.

300 Area Cleanup (RC02):

Excavation of 2 waste sites was completed in the 300 Area during FY03 as planned.

During FY03, approximately 65,000 metric tons (72,000 tons) of contaminated waste from the 618-4 and 618-5 Burial Grounds were disposed into ERDF. Disposal of the 618-4 and 618-5 Burial Grounds' remaining contaminated stockpiles was completed during August. Confirmatory sampling activities for the two burial grounds were also completed. Demobilization of all subcontractor equipment and facilities was completed on August 29.

Based on the 300 Area Kd/leach study results, the BHI report, *Protection of 300 Area Groundwater from Uranium-Contaminated Soils at Remediated Sites*, was completed and issued in December 2002. The report documents a new uranium groundwater protection standard at 267 pCi/g, slightly lower than the previous 350 pCi/g standard. The new standard was compared to cleanup data collected from previously remediated waste sites. All 300 Area waste sites met the new standard.

The 300 Area regrading RFP was sent to potential bidders on August 29. Four bids were received on September 26. The proposals are being evaluated, and award is scheduled for early October.

River Corridor Waste Management (RC05):

In January, ERC reached a milestone when the 4-millionth ton of contaminated waste was disposed in ERDF. During FY03, a total of 634,783 metric tons (699,732 tons) of contaminated material were disposed in ERDF. A total of 4,098,426 metric tons (4,517,765 tons) of waste have been disposed in ERDF since operations began in July 1996.

The ERDF Disposal team has worked more than seven years (89 months), since project inception, without a lost time accident.

ERDF continued to receive and dispose of ion exchange modules and empty fuel canisters from Fluor Hanford's (FH) K Basin Spent Nuclear Fuel Project and waste from the FH Groundwater Project.

During September, all of the drummed depleted uranium chips-in-oil waste that was excavated from the 618-4 Burial Ground and temporarily staged at ERDF was shipped to Oak Ridge, Tennessee for treatment to meet land disposal restrictions. The treated waste will be returned to ERDF for disposal within the next six months.

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ACCOMPLISHMENTS (continued)

Drums of uranium oxide waste (also from the 618-4 Burial Ground) were sampled in preparation for treatment. Bench-scale testing of multiple treatment formulas is being conducted to determine the appropriate treatment mix that will effectively immobilize metal contaminants within the waste and satisfy land disposal restrictions.

Drummed 183-H Solar Evaporation Basin waste shipments to ERDF commenced in July. Through September, more than 2,800 drums (of the estimated 12,300 total drums) had been shipped. The drummed waste has been stored at the Central Waste Complex awaiting final treatment and disposal.

During FY03, design packages, RFPs, and contract awards (for both construction and construction quality assurance contracts) were completed for the ERDF Cells 5 and 6 expansion project. A Notice to Proceed was given to the subcontractor on August 19 for mobilization and construction of ERDF Cells 5 and 6. The construction quality control subcontractor's mobilization is progressing and will be ready to support construction activities scheduled to begin early October.

General:

Eleven technologies were deployed during FY03 in support of the 100/300 Area cleanup remediation effort. The ERC technology accomplishments have been compiled in a detailed report, as well as in a summary brochure.

The ERC FY04 Detailed Work Plan (DWP) was completed in August. Final authorization to implement the plan was received in mid-September.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS)

TPA Milestone	Description	Due Date	(F)/(A) Date
M-16-10A	Initiate Remedial Action in the 100-KR-1 Operable Unit	08/01/03	12/11/02 (A)
M-93-16	Complete 105-DR Reactor Interim Safe Storage	09/30/03	01/29/03 (A)
M-16-13B	Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as Defined in the Remedial Design Report/ Remedial Action Work Plan for the 100 Area	10/29/04	05/20/03 (A)

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PERFORMANCE OBJECTIVES

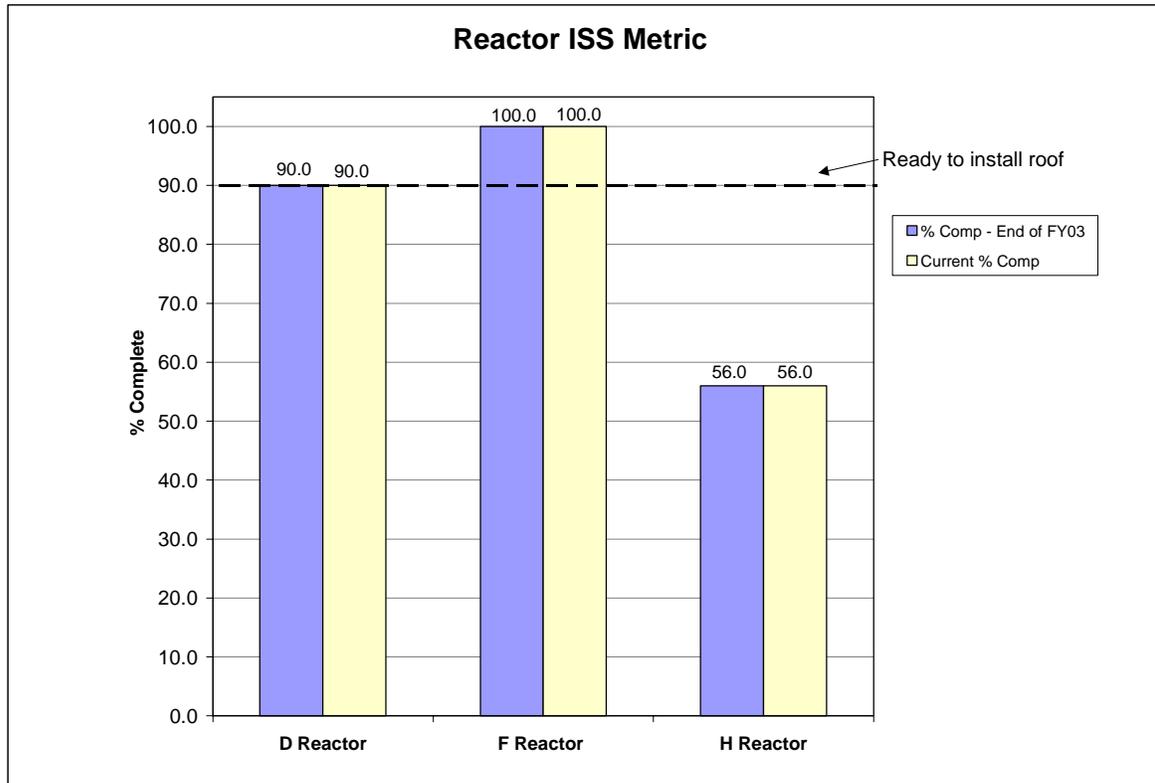
PI	Task
 F Reactor Interim Safe Storage	<p>Complete FY02 carryover ISS activities at F Reactor by November 20, 2002.</p> <p>Status: Completed on November 13, 2002. Notice of Completion package transmitted to RL on January 8, 2003. RL completed review and approved payment of full fee on January 30, 2003.</p>
 Accelerate River Corridor D&D and Remediation of Release Sites	<p>Complete 32 release sites (cleanup verification package [CVP] or waste site reclassification sheet [WRS]) and demolition of 2 facilities.</p> <p>Status: Complete. As of month-end June, 49 waste sites have been completed. Demolition and loadout have been completed for 2 facilities (1720-HA Arsenal Building [April 22] and 118-C-4 Horizontal Rod Storage Cave [June 4]); rods have also been disposed. NOC package was transmitted to RL on August 4 and approved on September 17, 2003.</p>
	<p>Exceed baseline disposal total (457K tons) up to a total of 65.5K additional tons. Complete 15 additional release sites (CVP or WRS). Complete demolition of a third facility.</p> <p>Status: Complete. Through June, 526.2K tons of waste have been disposed. Completion of additional release sites was also achieved (see above PI status). Demolition and loadout were completed for the 117-DR Filter Building on June 17. NOC package was transmitted to RL on August 4, and approved on September 22, 2003.</p>
	<p>Achieve ISS progress in accordance with DWP.</p> <p>Status: Complete. ISS planned activities for D, H, and F Reactors completed on schedule through June. NOC package was transmitted to RL on August 7, and approved on October 6, 2003.</p>

PIs - July through October 2003:

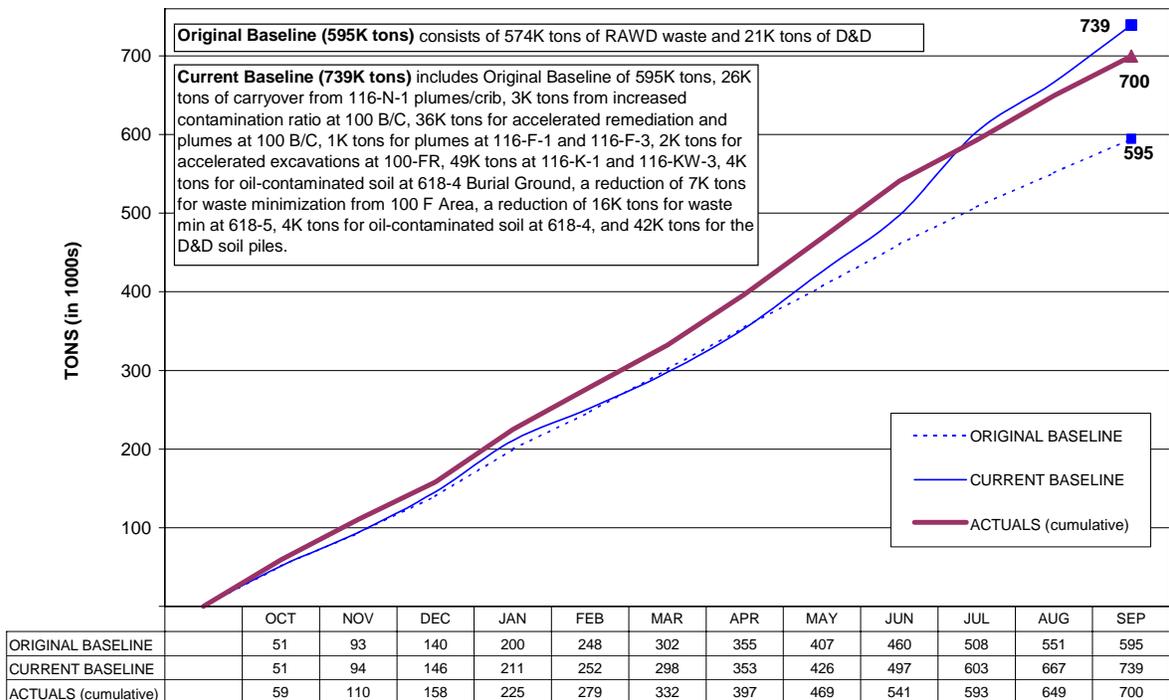
PI	Task
 F Reactor Interim Safe Storage	<p>Complete F Reactor ISS activities, including safe storage enclosure (SSE) installation, by September 30, 2003.</p> <p>Status: Complete. Acceptance of subcontract completion issued on September 11, 2003. NOC package is currently being developed.</p>
 H Reactor Interim Safe Storage	<p>Prepare H Reactor FSB for demolition -- Complete hot spot and associated fuel removal from the FSB by November 1, 2003. Fuel loadout and soil removal from the transfer pit and final cleanliness check of the basin are not included in this performance assessment.</p> <p>Status: On schedule. Approximately 90% of FSB has been addressed. Mud dauber activity is slowing down which will assist day shift activities.</p>
 618-4 Burial Ground CERCLA Actions	<p>Ship all pyrophoric uranium drums (~520) located on ERDF storage pad to a facility licensed and/or permitted to perform treatment that meets ERDF acceptance criteria by November 1, 2003.</p> <p>Status: Complete. The final drum shipment was received at the treatment facility on September 26, 2003.</p>
	<p>Dispose of all the uranium oxide drums located on ERDF storage pad by November 1, 2003.</p> <p>Status: On schedule to complete on or before November 1.</p>

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PERFORMANCE MEASURES/METRICS



Remedial Action Metric Cumulative Tons to ERDF

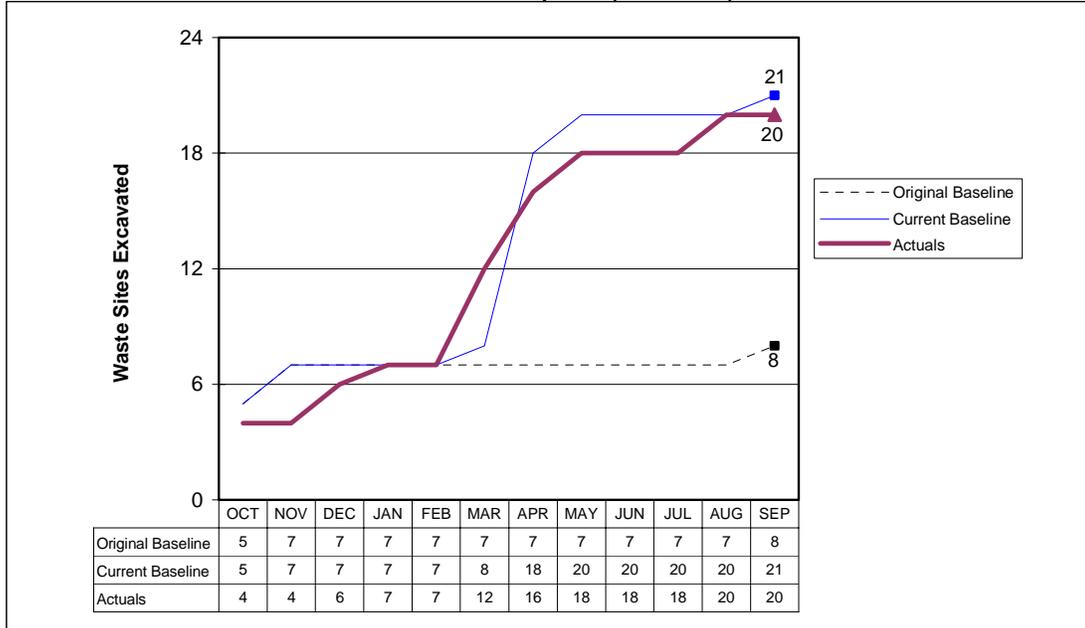


*Includes ERC RAWD, ERC Other and Other Hanford Contractor Wastes

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PERFORMANCE MEASURES/METRICS (continued)

**Waste Site Metric
Excavations Completed (cumulative)**



In addition to the above 20 excavated waste sites, 29 additional sites were also administratively closed during FY03.

Technology Deployments

Technology Deployment	PBS	Date Deployed	First-Time Deployment
Enhanced Site Characterization System (deployed at 618-5 Burial Ground)	RC02	10/02	No
RF Camera System for Brokk™ (deployed at H Reactor FSB)	RC01	10/02	Yes
IPIX 360-Degree Photography (deployed at C Reactor)	RC01	11/02	Yes
Mobile Access Control (Dolphin platform) (deployed at 100 K Area)	RC01	12/02	Yes
Ultra Lift (deployed at 100 N Area)	RC01	01/03	Yes
ISO-CART (deployed at 190-DR Facility)	RC01	02/03	Yes
ERDF Truck Survey Tool (Dolphin platform) (deployed at 100 B/C Remedial Action sites)	RC01	02/03	Yes
Dust Bond (surface contamination fixative) (deployed at 116-N-1 Crib)	RC01	06/03	Yes
Core Body Temperature Monitor (deployed at H Reactor FSB)	RC01	07/03	Yes
Pre-Prime 167 (deployed at H Reactor FSB)	RC01	08/03	Yes
Dust Bond (dust suppression) (deployed at D and H Reactor areas)	RC01	08/03	Yes

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COST/SCHEDULE STATUS

ERC - SCHEDULE VARIANCE	BCWS	BCWP	Variance
	\$K	\$K	\$K
RC01 - 100 Area River Corridor Cleanup	71,507	68,939	(2,568)
RC02 - 300 Area Cleanup	13,046	12,647	(399)
RC05 - River Corridor Waste Management	37,633	36,199	(1,434)
SC01 - Near-Term Stewardship	98	96	(2)
TOTAL ERC	122,284	117,881	(4,403)

PBS-RC01 – 100 Area River Corridor Cleanup

Schedule Variance = **(\$2,568K) (3.6%)**

Cause: 100 B/C CVP delayed due to plumes; acceleration of 116-K-1 Crib remediation delayed 100-KR pipeline remediation; 100 Area Remaining Site sampling behind schedule due to late start and requiring multiple design packages and more regulator involvement than planned.

Resolution: FY04 carryover.

Cause: H Reactor FSB demolition behind schedule due to mud dauber wasp nesting issues.

Resolution: FY04 carryover.

Cause: FY03 performance fee accounting practice dictates proportional carryover.

Resolution: N/A

PBS-RC02 – 300 Area Cleanup

Schedule Variance = **(\$399K); (3.1%)**

Cause: FY03 performance fee accounting practice dictates proportional carryover.

Resolution: N/A

PBS-RC05 – River Corridor Waste Management

Schedule Variance = **(\$1,434K); (3.8%)**

Cause: ERDF Transportation and Disposal behind schedule due to 100 B/C and 100 K Area remediation delays.

Resolution: FY04 carryover.

Cause: FY03 performance fee accounting practice dictates proportional carryover.

Resolution: N/A

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COST/SCHEDULE STATUS (continued)

ERC - COST VARIANCE	FY03 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
RC01 - 100 Area River Corridor Cleanup	66,647	68,939	63,990	4,949
RC02 - 300 Area Cleanup	11,053	12,647	10,643	2,004
RC05 - River Corridor Waste Management	35,135	36,199	33,677	2,522
SC01 - Near-Term Stewardship	62	96	61	35
TOTAL ERC	112,897	117,881	108,371	9,510

PBS-RC01 – 100 Area River Corridor Cleanup

Cost Variance = **\$4,949K; 7.2%**

Cause: Less program management support to projects required than planned.

Resolution: Underrun reflected in EAC.

Cause: Prior-year provisional rate rebill accounting adjustments were realized in March.

Resolution: Underrun reflected in EAC.

Cause: Fewer resources required for 100 B/C pipeline remediation than planned due to lower contamination levels and fewer pipelines encountered; resource sharing between remediation sites resulted in labor efficiencies.

Resolution: Underrun reflected in EAC.

PBS-RC02 – 300 Area Cleanup

Cost Variance = **\$2,004K; 15.8%**

Cause: Cost savings resulted from efficiencies realized in 618-4 Burial Ground sorting, sampling, and loadout of contaminated soils; savings from consolidation of common 618-4 and 618-5 Burial Ground remediation activities.

Resolution: Underrun reflected in EAC.

Cause: Prior-year provisional rate rebill accounting adjustments were realized in March.

Resolution: Underrun reflected in EAC.

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COST/SCHEDULE STATUS (continued)

PBS-RC05 – River Corridor Waste Management

Cost Variance = \$2,522K; 7.0%

Cause: Development of both the uranium chips-in-oil and uranium oxide treatment plans were simplified resulting in cost underruns; streamlined design and procurement approach for ERDF Cells 5 and 6 construction resulted in lower costs than planned; underruns were partially offset by increased transportation requirements from waste sites.

Resolution: Underrun reflected in EAC.

Cause: Prior-year provisional rate rebill accounting adjustments were realized in March.

Resolution: Underrun reflected in EAC.

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ISSUES (REGULATORY/EXTERNAL/DOE)

- **M-16-63 and M-94-01:** Tri-Party Agreement Milestone M-16-63, "Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, and 618-1) and Confirmatory Sampling of the Following 300-FF-2 Candidate Sites (300-109, 300-110, and 333 ESHWSA)"; and Milestone M-94-01, "Submit a Schedule and TPA Milestones to Complete Disposition of the Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327" (both due November 30, 2003), are at risk due to the delay in awarding the River Corridor contract.

Strategy/Status: Change requests, M-16-03-02 and M-94-03-01, were approved on September 5. The change requests extend the completion dates for the two milestones to September 30, 2004. Workscope was also accelerated by 11 months for Milestones M-16-65 and M-94-04 by combining them with M-16-63 and M-94-01, respectively. Issue closed.

INTEGRATION ACTIVITIES

In October 2002, BHI and FH developed an engineering evaluation/cost analysis (EE/CA) for the disposition of mixed waste from the 183-H Solar Evaporation Basins. The evaluation addressed approximately 12,260 waste drums stored in the Central Waste Complex. The document presented an integrated regulatory approach to develop an accelerated path forward for disposal of the waste.

The Annual Closure/Postclosure Cost Report was submitted to meet the requirements of the Hanford Site RCRA Permit, Condition II.H.2. This condition requires an annual estimate of the cost for completing closure and postclosure activities of Hanford's treatment, storage, and disposal (TSD) facilities. BHI coordinated with FH in report preparation and to support RL in issuance of the annual report by October 31, 2002.

The ERC Safety and Health group provided fire protection engineering support to FH during February. This included authoring a fire hazard analysis for the 231-Z facility and providing analytical support for three other fire hazard analyses. This effort supported a critical time frame for submittal of the Documented Safety Analyses (DSA) to RL. Support continued through review and comment phases of the DSA submittal.

The ERC supported Ecology, RL, and other Hanford Site contractors in the RCRA Permit renewal. The RCRA Permit Board agreed to the proposed approach that uses unit-specific permit documents attached to the current Hanford RCRA Permit and to the scope and content of the Hanford RCRA Permit Application renewal. This agreement eliminates the requirement of preparing a new application for each TSD unit that is included in the existing RCRA Permit. The renewal application is due to Ecology in March 2004.

In March, ERC transferred lead blankets and a contamination tent to the FH 222-S laboratory in support of the Hanford Site pollution prevention/waste minimization activities. This represents a cost savings of reuse rather than purchasing new equipment and materials.