

Environmental Management Performance Report

October 2001



E0111069.1



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Data as of month-end October

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INTRODUCTION

Beginning in fiscal year 2002 (FY02), a new Hanford Site Project Baseline Summary (PBS)/Work Breakdown Structure (WBS) were implemented by the U.S. Department of Energy (DOE) Richland Operations Office (RL). The new structure is based on "outcomes" with Environmental Restoration (ER) activities related to three key areas: River Corridor Restoration, Central Plateau Transition, and Site Integration and Infrastructure. FY02 ER reporting has also now been aligned to reflect the outcomes.

The monthly ER Environmental Management Performance Report (EMPR) report consists of four sections: Section A - Executive Summary, Section B – River Corridor Restoration, Section C - Central Plateau Transition, and Section D – Site Integration and Infrastructure. All data is current as of October 31.

Section A – Executive Summary. This section provides an executive level summary of Environmental Restoration Contractor's (ERC) performance information for the current reporting month and is intended to bring to management's attention that information considered 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 Hanford Site cleanup. Safety statistics are also included. Process improvement items are addressed as appropriate. Major commitments are summarized that encompass *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones and FY02 Environmental Management (EM) corporate performance measures and objectives. 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 and demonstrates the shared value of working as a team to accomplish 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 ERC monthly activity information and performance status for the three 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.

Section C – Central Plateau Transition. This section contains more detailed ERC monthly activity information and performance status for the one PBS within the Central Plateau Transition outcome. This PBS consists of CP01 – 200 Area Remediation.

Section D – Site Integration & Infrastructure. This section contains more detailed ERC monthly activity information and performance status for the two PBSs within the Site Integration and Infrastructure outcome. These two PBSs consist of SS03 – Groundwater Management and Monitoring, and SS04 – Groundwater/Vadose Zone (GW/VZ) Integration.

PBS SC01 – Near Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY02 workscope identified for this PBS, SC01 performance data will be 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



**River Corridor
Restoration**



**Central Plateau
Transition**



**Site Integration
& Infrastructure**

Data as of month-end October

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
OCTOBER 2001**

SECTION A – EXECUTIVE SUMMARY

Data as of month-end October.

NOTABLE ACCOMPLISHMENTS:

River Corridor Restoration:

The permanent replacement subcontract for the remaining 100 F, H, K Area (Group 4) remediation work has been awarded, and a pre-construction meeting was held to initiate subcontractor transition.

In the 100 N Area, the first two cover panels over the 116-N-1 Trench were collapsed. Low contamination soil was immediately placed over the area of the two panels for shielding as planned. All trench work is anticipated to be performed in a high radiation area, which will require special controls.

Excavation and shipping of waste material from the 116-N-3 plumes (100 N Area) continued and will be completed in November. Laser-Assisted Ranging and Data System (LARADS) surveying activities are being performed in the 116-N-3 pipeline and bypass trenches to identify contaminated areas that require removal prior to closeout sampling.

A backfill plan for the JA Jones and 600-23 remediated waste sites was presented to the U.S. Environmental Protection Agency (EPA). Use of the existing onsite materials and the final topography for both sites was the approach agreed upon. Backfill activities are scheduled for the last week of November.

Geophysical investigations at 600-33 and 118-B-3 waste sites in the 100 Area were initiated. These investigations, plus planned test pitting and trenching, will provide data to better define burial ground boundaries and contents in the 100 Area.

Progress continues on F, D, DR, and H Reactor interim safe storage (ISS) activities. The F and DR Reactor safe storage enclosure (SSE) design drawings and calculations were reviewed, and comments are being incorporated by the subcontractor.

As of October 6, ten candidate SNF fragments were confirmed in the F Reactor fuel storage basin (FSB) holding container. FSB excavation activities will proceed after document revisions are completed and the ten SNF fragments have been packaged and shipped to K Basin for storage.

At D Reactor, above-grade demolition debris loadout was completed in Area 3 (fan rooms/exhaust plenum area). Area 3 below-grade demolition also commenced, including pipe removal in the gas tunnel and concrete removal. Backfill of the replaced fire line system in Area 2 (valve pit/supply fan area) was completed.

In the 100 Area, three groundwater pump and treat systems (100-HR-3, 100-KR-4, and 100-NR-2) operated above the planned 90% availability levels in October, processing approximately 76 million liters of groundwater and removing approximately 7 kilograms of chromium and .02 curies of strontium. Since system inception, these three pump and treat systems have processed over 3 billion liters of groundwater, removing approximately 269 kilograms of chromium and 1.086 curies of strontium.

River Corridor surveillance and maintenance (S&M) activities that were performed in October to ensure inactive facility integrity and safety included preparation of a draft B Reactor S&M plan, preparation of the River Corridor herbicide/pesticide subcontract, and winterization of deactivated facilities.

Bid packages were received on October 31 from potential bidders for the remediation of the 618-4 and 618-5 Burial Grounds located in the 300 Area. Technical evaluations of the bid packages are currently underway, with subcontract award scheduled for mid-December.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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NOTABLE ACCOMPLISHMENTS continued:

During October, the Environmental Restoration Disposal Facility (ERDF) received 52,074 metric tons (57,402 tons) of waste. A total of 2,912,701 metric tons (3,210,703 tons) of contaminated waste have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 1,962 days without a lost time accident, and the ERDF Transportation team has driven 8,911,149 kilometers (5,537,131 miles) without an at-fault vehicle accident.

RL requested a 233-S waste package (Box 39) be exhumed from ERDF to perform nondestructive assay (NDA). Preliminary activities and readiness assessment required for the retrieval of Box 39 were completed. The stripping of waste overlying the 233-S waste package began on October 17. Retrieval of the box is scheduled for November.

Central Plateau Transition:

Work was initiated on Draft A of the 200-MW-1 and 200-LW-1 Operable Unit work plans in support of *Tri-Party Agreement* Milestone M-13-00L (due December 31).

In the 200 Area, two groundwater pump and treat systems (200-UP-1 and 200-ZP-1) operated above the planned 90% availability levels in October, processing approximately 48 million liters of groundwater. Approximately 130 kilograms of carbon tetrachloride were removed by 200-ZP-1. Since system inception, these two pump and treat systems have processed approximately 1.63 billion liters of groundwater. Approximately 5,936 kilograms of carbon tetrachloride were removed by 200-ZP-1. Approximately 539 million liters have been transported to the Effluent Treatment Facility (ETF) for processing since 200-UP-1 began operation. 343 million liters were previously processed prior to using ETF.

The 200-PW-1 (previously designated as 200-ZP-2) vapor extraction system was removed from service in October for winter shutdown, as planned. The system is scheduled for restart in April 2002.

October decommissioning activities that were accomplished in the highly contaminated 233-S Plutonium Concentration Facility included removal of the L-11 and L-13 process hood vessels. To date, 11 vessels have been removed on or ahead of schedule. A total of 15 vessels are planned for removal by June 2002. The original baseline was for six vessels to be removed by that date.

Central Plateau S&M activities that were performed in October to ensure inactive facility integrity and safety included development of waste profiles in preparation of hexone tank interim stabilization, and preparation of the Notice of Construction (NOC) permit for hexone tank interim stabilization. In addition, Rev. B of the Canyon Disposition Initiative (CDI) Proposed Plan was transmitted to RL for submittal to the regulators. The public comment period is planned for early 2002. The preferred alternative for U Plant will be formalized after comments have been received.

Site Integration and Infrastructure:

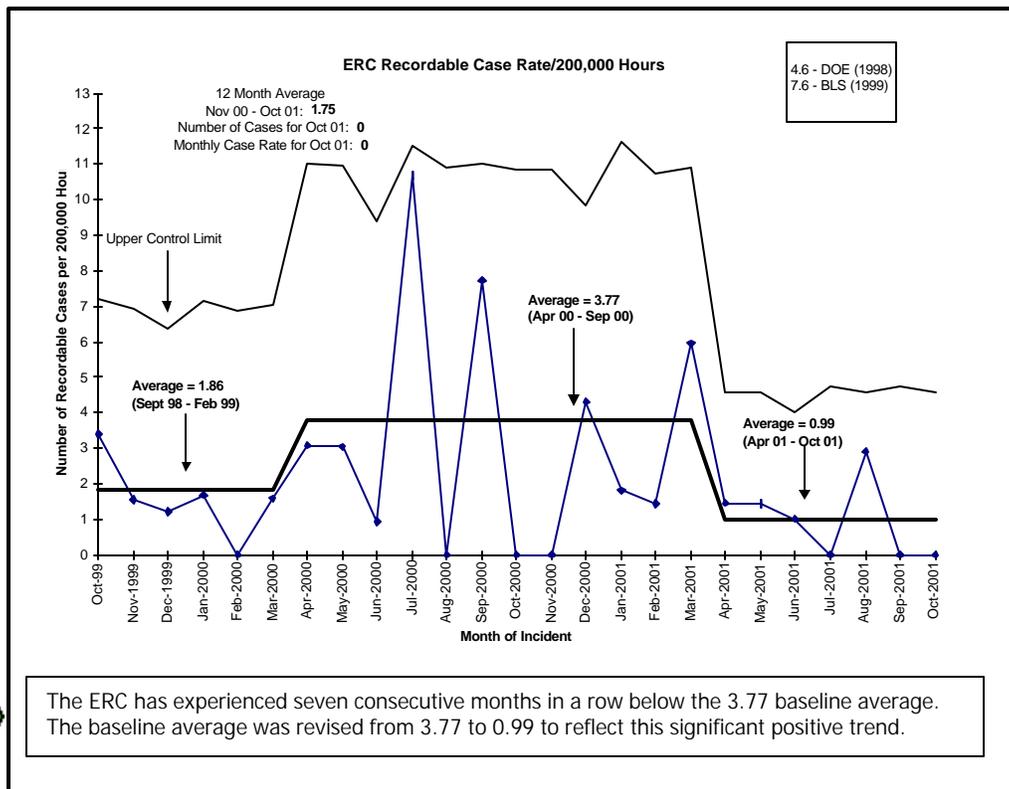
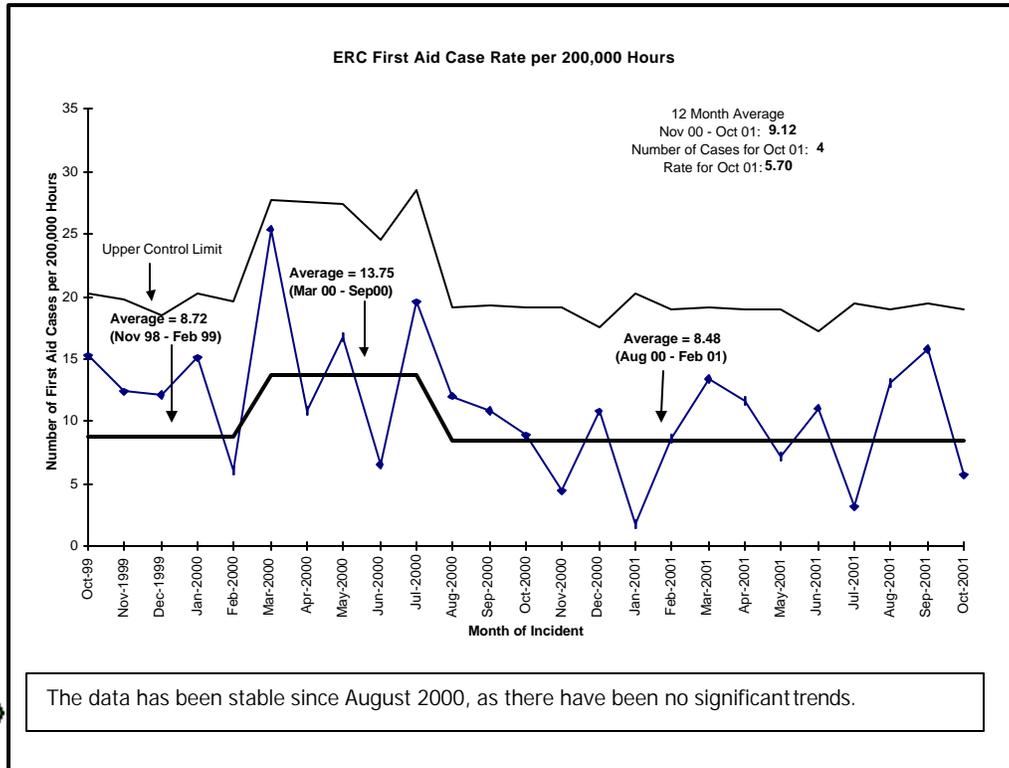
The initial System Assessment Capability (SAC) results were presented to the regulators and other Hanford Site programs including the Office of River Protection (ORP) and DOE Headquarters (HQ) Top-to-Bottom Review personnel.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

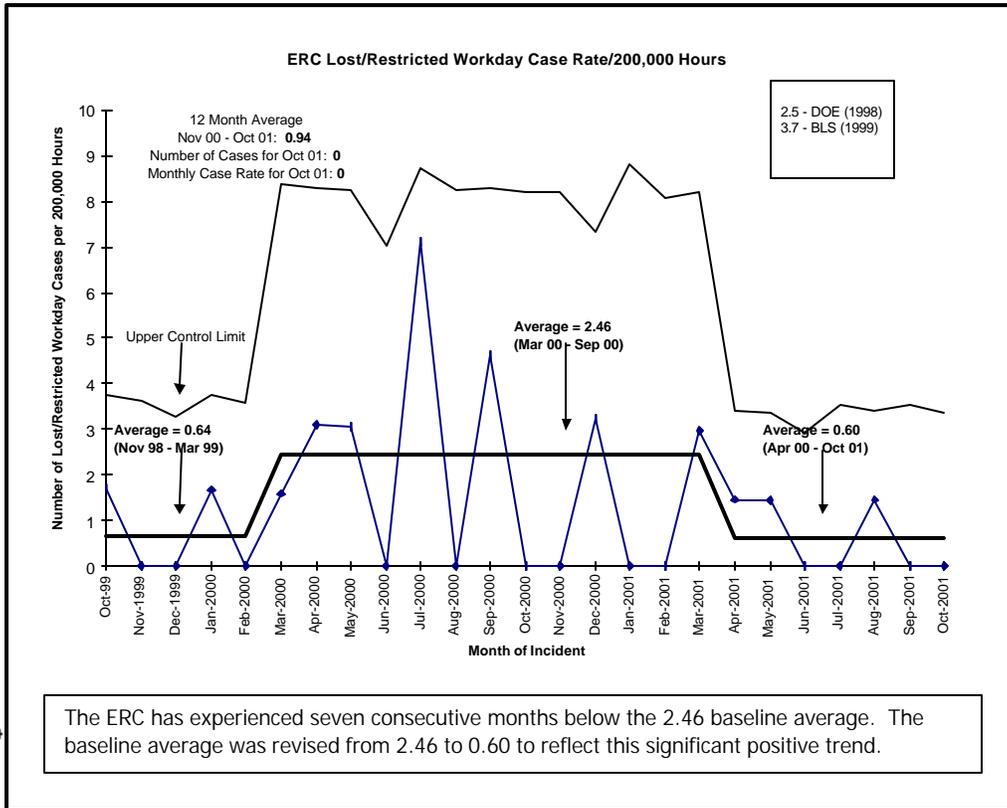
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SAFETY:



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION OCTOBER 2001

SAFETY continued:



**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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SAFETY cont inued:

| | FYTD | Current Period (9/17/01- 10/14/01) | Current Period Comments |
|--------------------------------|-------------|---|--------------------------------------|
| First Aid | 4 | 4 | (2) superficial laceration, (2) pain |
| OSHA Recordable | 0 | 0 | N/A |
| Restricted Workday Case | 0 | 0 | N/A |
| Lost Workday Case | 0 | 0 | N/A |

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

- The ERC, as of October 27, 2001, has worked approximately 697,300 hours without a lost workday case. The last incident occurred on May 7, 2001 and became a lost time on May 31, 2001. Continuous employee involvement is being fostered by the Integrated Environmental Safety and Health Management System (ISMS), Voluntary Protection Program (VPP), and labor alliance programs, plus e-mail and one-on-one meetings with employees. Based on seven consecutive months of data below baseline averages, the ERC Lost/Restricted Workday Case Rate and Recordable Case Rate safety statistic control charts were revised to reflect a significant positive change. The Lost/Restricted Workday Case Rate baseline went from an average of 2.46 incidents per 200,000 hours worked to 0.60 and the Recordable Case Rate baseline average went from 3.77 to 0.99 incidents per 200,000 hours worked.
- Bechtel Hanford, Inc. (BHI) has developed a Medical Case Management desktop instruction for ERC managers, supervisors, and safety representatives. The purpose is to provide consistent management of occupational and non-occupational injuries and illnesses. Medical Case Management desktop instruction continues for ERC managers and supervisors. BHI Safety personnel visit the projects and provide the training to ERC managers and supervisors.
- 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). When investigations have been completed, the results of each investigation are sent to the Area Superintendents, Field Superintendents, and Supervisors to review at the PODs.
- Continue to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- BHI continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.
- The Field Support General Superintendent and Project Safety Manager continue to 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. This activity is ongoing.

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ENVIRONMENTAL RESTORATION
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SAFETY continued:

Integrated Environmental Safety and Health Management System (ISMS):

Status:

- Affected ERC staff and craft personnel were involved in the preparation of all job hazards analyses and work packages.
- Lessons Learned were distributed and discussed with staff personnel and craft workers.
- A "hoisting and rigging" incident was self-disclosed (Occurrence Report # RL-BHI-DND-2001-0016) and self-correction of the situation was enacted in a timely manner.
- The ERC HAMTC Safety Representative was routinely included in the resolution of safety issues and employee concerns.
- Active interface was maintained with other site contractors to facilitate safe and efficient movement of waste fuel elements from F Reactor FSB to K Basin.
- ERC subcontractor's job sites were inspected weekly to insure compliance with contractual and regulatory requirements.

Conduct of Operations:

Status: No significant issues were reported in the Corrective Action Tracking System (CATS) database for the current reporting period.

PROCESS IMPROVEMENTS:

Six Sigma:

Status:

- Implementation of Six Sigma program across the ERC continues.
- 21 ERC employees and three RL employees completed the 40-hour Yellow Belt training.

Process Improvement Projects (PIPs) and status include:

- The Radiation Control Instrumentation PIP (PIP #3) was completed in October and is being institutionalized.
- The Contaminated Concrete Demolition PIP (PIP #4) is in the "Analyze Phase" and is about 30% complete.
- The Nevada Test Site/Hanford Site Virtual Waste Acceptance Process (PIP #5) Phase 1 Report was issued on September 28, 2001.
- The Radiological Work Control Process PIP (PIP #6) is in the "Measure Phase" and is about 5% complete.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones: Sixteen (16) Hanford Federal Facility Agreement and Consent Order (*Tri-Party Agreement*) milestones are planned for completion during FY02.

Status: Through October, one milestone, M-24-54 "Install One Additional Well at SST WMA T" (due December 31), was completed on October 18, ten weeks ahead of schedule. All of the other milestones are on or ahead of schedule except one. One milestone, M-16-27C "Complete 100-HR-3 Phase III ISRM Barrier Emplacement" (due September 30, 2002), will slip to December 31, 2002. This three-month extension is required to perform additional characterization at the treatability test area, and to also allow for additional construction time due to a thicker aquifer encountered. An Explanation of Significant Difference (ESD) and change request are being developed to extend the ISRM milestone completion date three months.

| Total <i>Tri-Party Agreement</i> Milestones Due in FY02 | 16 |
|--|-----------|
| Total Planned Through October | 0 |
| Total Completed Through October | 1 |

| Remaining <i>Tri-Party Agreement</i> Milestones to be Completed in FY02 | 15 |
|--|-----------|
| Forecast Ahead of Schedule | 8 |
| Forecast On Schedule | 6 |
| Forecast Unrecoverable | 1 |

EM Corporate Performance Measures:

| | DWP FY02 | FY02 Mgmt Commitments | Current Baseline | Completed YTD |
|------------------------|-----------------|------------------------------|-------------------------|----------------------|
| Waste Site Excavations | 13 | 13 | 13 | 0 |

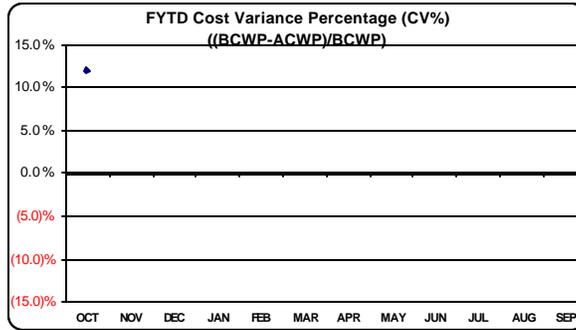
PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 Performance Incentives (PIs) to BHI.

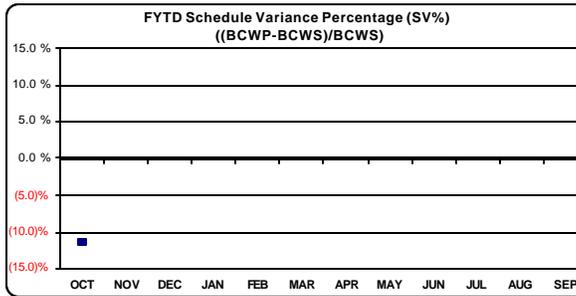
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION OCTOBER 2001

TOTAL ERC COST/SCHEDULE OVERVIEW:

FY02 ER PERFORMANCE SUMMARY FYTD OCTOBER 2001 (\$K)



| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | EAC |
|-------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| CURRENT PERIOD | | | | | | | | | | | | | |
| ACWP | 10,237 | | | | | | | | | | | | |
| BCWP | 11,635 | | | | | | | | | | | | |
| FISCAL YEAR TO DATE | | | | | | | | | | | | | |
| ACWP | 10,237 | | | | | | | | | | | | |
| BCWP | 11,635 | | | | | | | | | | | | |
| CV | 1,398 | | | | | | | | | | | | |
| CV% | 12.0% | | | | | | | | | | | | |
| EAC (Cumulative) | 10,237 | 24,152 | 43,038 | 57,636 | 71,044 | 87,374 | 100,464 | 113,409 | 127,185 | 138,908 | 150,787 | 166,320 | 166,501 |
| Yr End Budget Variance | (75) | | | | | | | | | | | | |



| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----------------------------|---------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| DWP | 10,998 | 11,430 | 14,981 | 13,378 | 12,129 | 15,165 | 12,868 | 12,488 | 13,553 | 11,830 | 12,081 | 14,836 |
| DWP (Accum) | 10,998 | 22,428 | 37,408 | 50,787 | 62,916 | 78,081 | 90,948 | 103,436 | 116,990 | 128,820 | 140,900 | 155,736 |
| CURRENT PERIOD | | | | | | | | | | | | |
| BCWS | 13,121 | 12,958 | 17,997 | 14,464 | 13,356 | 16,693 | 12,907 | 12,303 | 13,745 | 11,866 | 12,023 | 14,992 |
| BCWP | 11,635 | | | | | | | | | | | |
| FISCAL YEAR TO DATE | | | | | | | | | | | | |
| BCWS | 13,121 | 26,080 | 44,076 | 58,541 | 71,897 | 88,590 | 101,497 | 113,800 | 127,545 | 139,411 | 151,434 | 166,426 |
| BCWP | 11,635 | | | | | | | | | | | |
| SV | (1,486) | | | | | | | | | | | |
| SV% | -11.3% | | | | | | | | | | | |

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
OCTOBER 2001**

TOTAL ERC COST/SCHEDULE OVERVIEW continued:

**FY 2002 PBS PERFORMANCE SUMMARY
FYTD OCTOBER 2001
(\$K)**

| | FY02 DWP BCWS | CURRENT BCWS | FYTD | | | YTD SCHEDULE VARIANCE | | YTD COST VARIANCE | | EAC |
|--------------------------|------------------|-----------------|--------------|--------------|--------------|--------------------------|---------------|----------------------|--------------|---------------|
| | | | BCWS | BCWP | ACWP | \$ | % | \$ | % | |
| RC01 | 68776 | 73451 | 5316 | 4493 | 4158 | -823 | -15.5% | 335 | 7.5% | 73519 |
| RC02 | 9444 | 9873 | 504 | 458 | 383 | -46 | -9.1% | 75 | 16.4% | 9879 |
| RC05 | 24259 | 24714 | 2149 | 2065 | 1944 | -84 | -3.9% | 121 | 5.9% | 24770 |
| RCR-Subtotal | 102479 | 108038 | 7969 | 7016 | 6485 | -953 | -12.0% | 531 | 7.6% | 108168 |
| CP01 | 32663 | 33292 | 2748 | 2539 | 2166 | -209 | -7.6% | 373 | 14.7% | 33193 |
| CPT-Subtotal | 32663 | 33292 | 2748 | 2539 | 2166 | -209 | -7.6% | 373 | 14.7% | 33193 |
| SS03 | 17141 | 18098 | 1651 | 1523 | 1315 | -128 | -7.8% | 208 | 13.7% | 18155 |
| SS04 | 3382 | 6928 | 751 | 555 | 270 | -196 | -26.1% | 285 | 51.4% | 6916 |
| SI&T-Subtotal | 20523 | 25026 | 2402 | 2078 | 1585 | -324 | -13.5% | 493 | 23.7% | 25071 |
| SC01 | 71 | 69 | 3 | 3 | 1 | 0 | 0.0% | 2 | 66.7% | 69 |
| SS-Subtotal | 71 | 69 | 3 | 3 | 1 | 0 | 0.0% | 2 | 66.7% | 69 |
| ERC TOTAL | 155736 | 166425 | 13122 | 11636 | 10237 | -1486 | -11.3% | 1399 | 12.0% | 166501 |

Schedule Variance Summary:

Through October, the ER Project is \$1.5M (-11.3%) behind schedule. The negative schedule variance is attributed to system upgrade delays at two 100 Area groundwater pump and treat units, 233-S facility D&D project waste removal and nondestructive assay (NDA) activity delays, and delays on Groundwater/Vadose Zone (GW/VZ) Science and Technology (S&T) tank farm experimental studies. No significant impacts are expected to result.

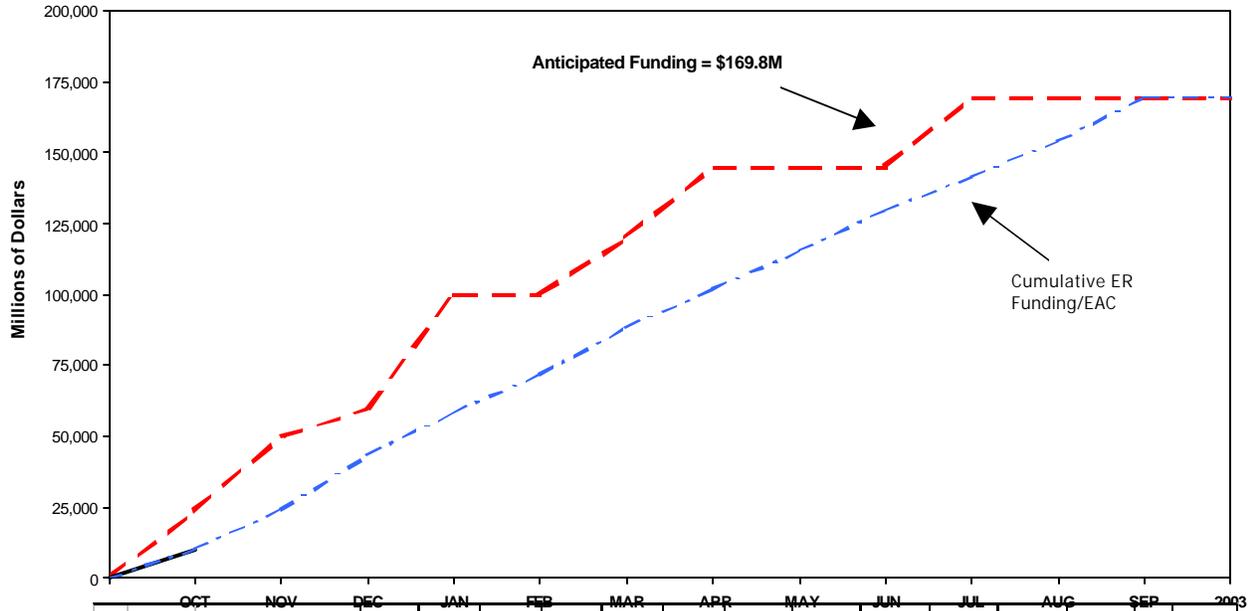
Cost Variance Summary:

At the end of October, the ER Project had performed \$11.6M worth of work, at a cost of \$10.2M. This results in a favorable cost variance of \$1.4M (+12.0%). The positive cost variance is attributed to 200-CS-1 test pit pre-job planning requiring less effort than planned, decrease in costs associated with the SAC computer purchase and software modification, and missed accrual which will be corrected in November.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION OCTOBER 2001

TOTAL ERC COST/SCHEDULE OVERVIEW continued:

FY02 FUNDS MANAGEMENT



| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | 2003 | EAC TOTAL |
|--|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|-----------|
| APPROVED FUNDING | 24,017 | 50,000 | 60,000 | 100,000 | 100,000 | 120,000 | 145,000 | 145,000 | 145,000 | 169,753 | 169,753 | 169,753 | Est. Outyr. ETC | |
| APPROVED SCOPE | | | | | | | | | | | | | | |
| Actual Cost | 10,237 | | | | | | | | | | | | | |
| River Corridor Restoration | 6,485 | | | | | | | | | | | | | 6,485 |
| Central Plateau Transition | 2,166 | | | | | | | | | | | | | 2,166 |
| Site Integration and Infrastructure | 1,585 | | | | | | | | | | | | | 1,585 |
| Site Stewardship | 1 | | | | | | | | | | | | | 1 |
| Current Monthly EACs | 10,237 | 13,915 | 18,886 | 14,598 | 13,408 | 16,330 | 13,090 | 12,945 | 13,776 | 11,723 | 11,879 | 15,533 | | 181 |
| Cumulative Projects EAC | 10,237 | 24,152 | 43,038 | 57,636 | 71,044 | 87,374 | 100,464 | 113,409 | 127,185 | 138,908 | 150,787 | 166,320 | - | 166,501 |
| NOVEMBER FY2002 APPROVED BCPs (Through 11/27/02) | | | | | | | | | | | | | | |
| RC01 BCP-22007 Plumes @ 100 F (116-F-9 & 116-F-14) | | 11 | 10 | 11 | 10 | 11 | 11 | 20 | 10 | 8 | | | | 102 |
| Subtotal Approved Scope Changes | | 11 | 10 | 11 | 10 | 11 | 11 | 20 | 10 | 8 | 0 | 0 | 0 | 102 |
| FY2002 PENDING BCPs | | | | | | | | | | | | | | |
| RC01 BCP-22027 RA Subcontr. Price Adjust 100 F Area | | 15 | 5 | 5 | 5 | 10 | 15 | 16 | 20 | 20 | 20 | 20 | | 151 |
| RC02 BCP-22024 Realign 300 Area Carryover/DWP Scope | | | (13) | (80) | 17 | 25 | 24 | 26 | 18 | 9 | 5 | | | 31 |
| RC01 BCP-22015 Revise 300-FF-5 O&M Plan | | 21 | 40 | 8 | 6 | | | | | | | | | 75 |
| CP01 BCP-22011 Accel. 200-IS-1 RI/FS Work Plans | | | 24 | 28 | 24 | 34 | 36 | 63 | 53 | 45 | 38 | 21 | | 366 |
| CP01 BCP-22029 Accel. 200-ST-1/SW-2 RI/FS Work Plans | | | | | 33 | 40 | 63 | 86 | 51 | 39 | 28 | 13 | 10 | 363 |
| SS04 BCP-22030 Replan COS for SAC Requirements | | 76 | 51 | (31) | (34) | (40) | | | | | | | | 22 |
| CP01 BCP-22020 Remove Weather Enclosures @ 233-S | | | | | | | 100 | 100 | 100 | 50 | 50 | | | 400 |
| CP01 BCP-22023 Increased Funding Req'd for NDA @ 233-S | | 20 | 20 | 25 | 15 | 15 | 15 | 15 | 12 | 13 | 15 | 15 | | 180 |
| ALL BCP-22008 Waste Mgmt Phase III Process Imprvmts | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | 250 |
| ALL BCP-22XXX Additional Requirements for the VPP | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | 200 |
| ALL Other Pending Scope Changes | | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | | 1,112 |
| Subtotal Approved BCPs + Pending BCPs | | 244 | 283 | 112 | 222 | 241 | 410 | 472 | 410 | 330 | 302 | 215 | 10 | 3,252 |
| Current Monthly EAC + November FY2002 Approved BCPs & Pending BCPs | 10,237 | 14,159 | 19,169 | 14,710 | 13,630 | 16,571 | 13,500 | 13,417 | 14,186 | 12,053 | 12,181 | 15,748 | | - |
| Cumulative ER; EAC + November FY2002 Approved BCPs & Pending BCPs | 10,237 | 24,396 | 43,565 | 58,275 | 71,905 | 88,476 | 101,977 | 115,394 | 129,580 | 141,633 | 153,814 | 169,562 | 10 | 169,753 |

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
OCTOBER 2001**

ISSUES (REGULATORY/EXTERNAL/DOE):

See individual Outcome sections.

KEY INTEGRATION ACTIVITIES:

See individual Outcome sections.

UPCOMING PLANNED KEY EVENTS:

River Corridor Restoration:

Tri-Party Agreement Milestone M-16-00F, Establish Date for Completion of All 100 Area Remedial Actions, due December 31, 2001.

Tri-Party Agreement Milestone M-16-27B, Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement), due December 31, 2001.

Central Plateau Transition:

Tri-Party Agreement Milestone M-13-26, Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan, due December 31, 2001.

Tri-Party Agreement Milestone M-13-00L, Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans, due December 31, 2001.

Site Integration & Infrastructure:

Tri-Party Agreement Milestone M-24-53, Install Two (2) Additional Wells at SST WMA TX-TY, due December 31, 2001.

Tri-Party Agreement Milestone M-24-55, Install Two (2) Additional Wells at SST WMA S-SX, due December 31, 2001.

Tri-Party Agreement Milestone M-24-00M, Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2001 if Required, due December 31, 2001.

Section B - River Corridor Restoration

RC01 - 100 Area River Corridor Cleanup

RC02 - 300 Area Cleanup

RC05 - River Corridor Waste Management



Excavation in the Fuel Storage Basin at the F Reactor



Performing Radiation/Contamination Surveys in the I 16-N-3 Pipe Trench



Cutting the Active Water Line at the Lewis Canal



Material Removal at the I 16-N-1 Trench

Data as of month-end October

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SECTION B – RIVER CORRIDOR RESTORATION

Data as of month-end October.

ACCOMPLISHMENTS:

100 Area River Corridor Cleanup (RC01):

Capping of the discharge pipes from the three outfall structures (116-B-7, 132-B-6, and 132-C-2) was completed in the 100 B/C Area. Excavation activities and grading of side slopes continued on pipelines 3 and 4. Removal of clean overburden and contaminated soil associated with pipelines 12, 13, 14, 15, 16, 17, 24, and contaminated Soil Area "J" was initiated.

The permanent replacement subcontract for the remaining 100 F, H, K Area (Group 4) remediation work was awarded, and a pre-construction meeting was held to initiate subcontractor transition.

In the 100 F Area, overburden material removal and demolition continued on the 1.4-meter (54-inch) concrete discharge piping from the reactor building to the Lewis Canal. Utility protection and rerouting are in progress to support pipeline removal.

In the 100 N Area, the first two cover panels over the 116-N-1 Trench were collapsed. Low contamination soil was immediately placed over the area of the two panels for shielding. All trench work is anticipated to be performed in a high radiation area, which will require special controls.

Excavation and shipping of waste material from the 116-N-3 plumes (100 N Area) continued and will be completed in November. Laser-Assisted Ranging and Data System (LARADS) surveying activities are being performed in the 116-N-3 pipeline and bypass trenches to identify contaminated areas that require removal prior to closeout sampling. Cleanup of those areas identified by the LARADS activities will continue into November.

A backfill plan for the JA Jones and 600-23 remediated waste sites was presented to the U.S. Environmental Protection Agency (EPA). Use of existing onsite materials and the final topography for both sites was the approach agreed upon. Backfill activities are scheduled for the last week of November.

Geophysical investigations at 600-33 and 118-B-3 waste sites were initiated. These investigations, plus planned test pitting and trenching, will provide data to better define burial ground boundaries and contents in the 100 Area.

The F and DR Reactor SSE design drawings and calculations were reviewed, and comments are being incorporated by the subcontractor. Full mobilization will be authorized when key submittals and a recovery schedule are approved.

On October 1, the Auditable Safety Analysis (ASA) Management of Change (MOC) was approved, allowing ten spent nuclear fuel (SNF) fragments or their equivalent to be present in the F Reactor FSB. The original ASA only allowed five fragments. As of October 6, ten candidate SNF fragments were confirmed in the FSB holding container. FSB excavation activities will proceed after documents are revised and the ten SNF fragments have been packaged and shipped to K Basin for storage. Document revisions include a MOC document, a revision to the criticality evaluation, and a revision to the air monitoring plan. Project personnel also worked on preparation tasks prior to the loadout of SNF that included continued training on the long handle tools and on the assembly/disassembly of the cask.

ERC is working with Fluor Hanford (FH) to determine the requirements to increase the total estimated weight limit of candidate SNF from 68 kilograms to 454 kilograms (150 pounds to 1,000 pounds) for both F and H Reactor FSB cleanout. This step is being taken to prevent multiple changes to K Basin documentation in the event there is a substantial increase of suspect fuel found in the FSBs.

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ACCOMPLISHMENTS continued:

At D Reactor, above-grade demolition debris loadout was completed in Area 3 (fan rooms/exhaust plenum area). Area 3 below-grade demolition also commenced, including pipe removal in the gas tunnel and concrete removal. Backfill of the replaced fire line system in Area 2 (valve pit/supply fan area) was completed.

Six of the nine In Situ Redox Manipulation (ISRM) Project Phase II well extractions (FY01 carryover) were completed during October. The remainder of the extractions is expected to be completed by the end of November, which will satisfy *Tri-Party Agreement* Milestone M-16-27B (due December 31).

In the 100 Area, three groundwater pump and treat systems (100-HR-3, 100-KR-4, and 100-NR-2) operated above the planned 90% availability levels in October, processing approximately 76 million liters of groundwater and removing approximately 7 kilograms of chromium and .02 curies of strontium. Since system inception, these three pump and treat systems have processed over 3 billion liters of groundwater, removing approximately 269 kilograms of chromium and 1.086 curies of strontium.

River Corridor S&M activities that were performed in October to ensure inactive facility integrity and safety included preparation of a draft B Reactor S&M plan, preparation for the River Corridor herbicide/pesticide subcontract, and winterization of deactivated facilities.

300 Area Cleanup (RC02):

Bid packages were received on October 31 from potential bidders for the remediation of the 618-4 and 618-5 Burial Grounds located in the 300 Area. Technical evaluations of the bid packages are currently underway, with subcontract award scheduled for mid-December.

The 300-FF-2 remedial action design was initiated. This design addresses sites in the 300-FF-2 Operable Unit that are located outside of the 300 Area complex, excluding the 618-10 and 618-11 waste sites, plus one burial ground inside the fence. The design will produce sufficient engineering data to support a materials requisition package to procure a remedial action subcontractor.

River Corridor Waste Management (RC05):

During October, ERDF received 52,074 metric tons (57,402 tons) of waste. A total of 2,912,701 metric tons (3,210,703 tons) of contaminated waste have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 1,962 days without a lost time accident, and the ERDF Transportation team has driven 8,911,149 kilometers (5,537,131 miles) without an at-fault vehicle accident.

RL requested a 233-S waste package (Box 39) be exhumed from ERDF to perform nondestructive assay (NDA). Preliminary activities and readiness assessment required for the retrieval of Box 39 were completed. The stripping of waste overlying the 233-S waste package began on October 17. Retrieval of the box is scheduled for November.

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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

| TPA Milestone | Description | Due Date | (F)/(A) Date |
|----------------------|--|-----------------|---------------------|
| M-16-00F* | Establish Date for Completion of All 100 Area Remedial Actions | 12/31/01 | |
| M-16-27B | Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement) | 12/31/01 | 11/30/01 (F) |
| 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 | |
| M-16-26B | Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units and Process Effluent Pipelines in the 100-DR-1, 100-DR-2, and 100-HR-1 OUs. Complete Revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1, 100-DR-2, and 100-HR-1 OUs as Defined in RDR/RAWP for the 100 Area | 3/31/02 | 2/15/02 (F) |
| M16-41B | Submit Closeout Verification Package for JA Jones 1 and 600-23 Waste Sites for EPA Approval | 3/31/02 | 11/16/01 (F) |
| M-16-03A* | Establish Date for Completion of 300 Area Remedial Actions | 6/30/02 | |
| M-16-03G | Establish an Environmental Restoration Disposal Facility (ERDF) Staging Area that is Ready to Receive Drummed Waste from the 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment | 9/30/02 | 2/01/02 (F) |
| M-16-27C** | Complete 100-HR-3 Phase III, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement) | 9/30/02 | 12/31/02 (F) |
| M-16-41C | Complete Backfill and Regrading of JA Jones 1 and 600-23. Revegetation will occur during the following planting season | TBD | 12/31/01 (F) |

*Negotiations are currently in progress to address M-16 and M-93 milestones for the 100/300 Areas with a target date of December 31 for reaching agreement.

**An Explanation of Significant Difference (ESD) and change request are being developed to extend milestone completion date three months. RL and Ecology are in agreement with path forward.

PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 PIs to BHI.

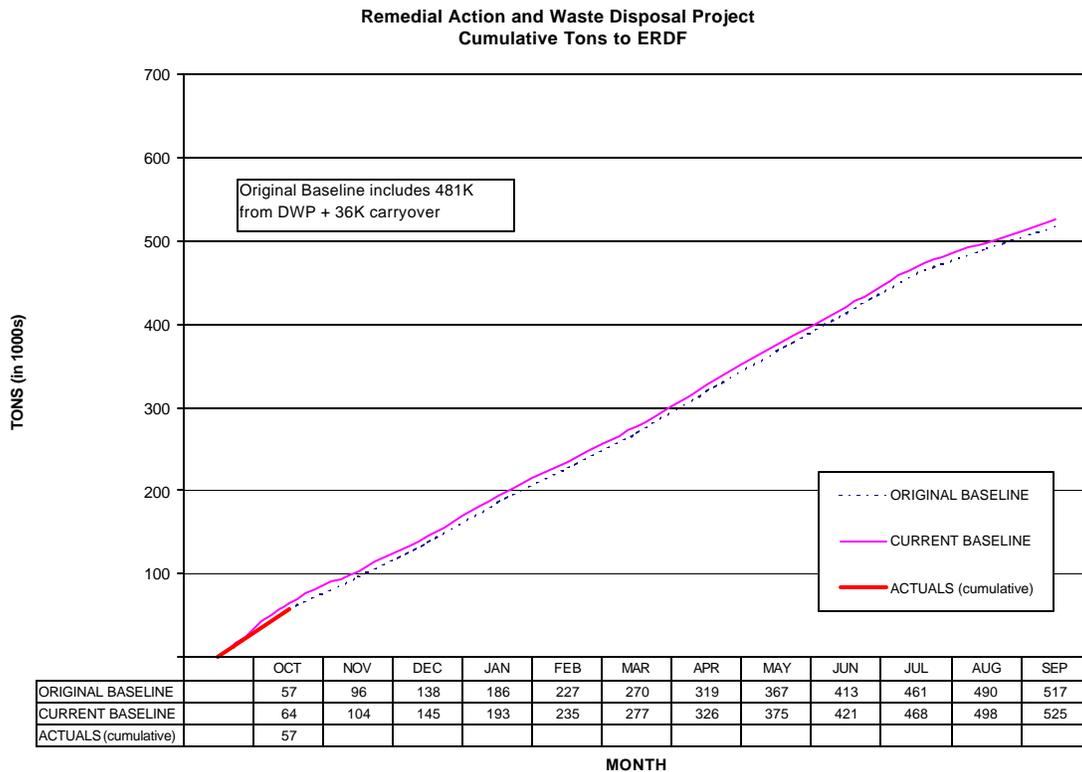
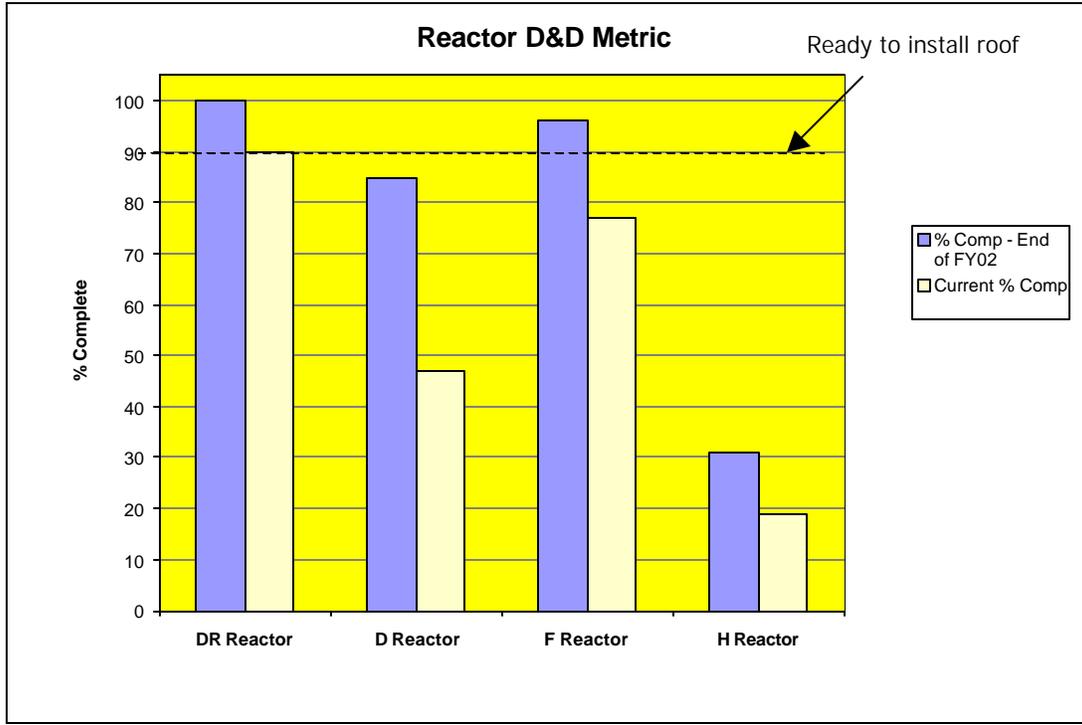
**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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PERFORMANCE MEASURES/METRICS:

| | DWP FY02 | FY02 Mgmt Commitments | Current Baseline (Incl. Baseline Changes) | Completed YTD |
|------------------------------|-----------------|------------------------------|--|----------------------|
| Waste Sites Excavated | 13 | 13 | 13 | 0 |

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION OCTOBER 2001

PERFORMANCE MEASURES/METRICS:



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STRETCH AND SUPERSTRETCH GOALS:

RL has not formally transmitted final FY02 goals to BHI.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

| River Corridor Restoration | BCWS | BCWP | Variance |
|---|--------------|--------------|--------------|
| | \$K | \$K | \$K |
| RC01 100 Area River Corridor Cleanup | 5,316 | 4,493 | (823) |
| RC02 300 Area Cleanup | 504 | 458 | (46) |
| RC05 River Corridor Waste Management | 2,149 | 2,065 | (84) |
| TOTAL River Corridor Restoration | 7,969 | 7,016 | (953) |

PBS-RC01 – 100 Area River Corridor Cleanup

Schedule Variance = **(\$823K); (15.5%)**

Cause: System upgrade delay at 100-KR-4 and 100-HR-3 groundwater pump and treat units due to change in performance approach from construction forces to subcontract. Also, delay in resin regeneration/material procurement.

Resolution: Upgrades to be rebaselined with baseline change proposal (BCP). Schedule will be met.

Cause: Waste site access in 100 F Area delayed by the ISS Project discovery of additional reactor fuel elements in FSB. Pipeline excavation activities delayed by complexities on underground utility and power pole relocation.

Resolution: Waste site excavation scope realignment is required; a BCP is in process.

Cause: Container availability is insufficient to address higher than planned proportion of contaminated soil in the 100 B/C Area.

Resolution: A BCP is being prepared to address contamination issues.

PBS-RC02 – 300 Area Cleanup

Schedule Variance = **(\$46K); (9.1%)**

Cause: 300-FF-1 behind schedule due to awaiting comments on Cleanup Verification Packages (CVPs).

Resolution: When the initial CVP is approved, the remaining CVPs will be completed.

PBS-RC05 – River Corridor Waste Management

Schedule Variance = **(\$84K); (3.9%)**

Cause: Delays at ERDF due to weather conditions and short-term detainment of contaminated waste transportation requested by DOE.

Resolution: Schedule recovery expected.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

| River Corridor Restoration | FY02 EAC | BCWP | ACWP | Variance |
|---|----------------|--------------|--------------|------------|
| | | \$K | \$K | \$K |
| RC01 100 Area River Corridor Cleanup | 73,519 | 4,493 | 4,158 | 335 |
| RC02 300 Area Cleanup | 9,879 | 458 | 383 | 75 |
| RC05 River Corridor Waste Management | 24,770 | 2,065 | 1,944 | 121 |
| TOTAL River Corridor Restoration | 108,168 | 7,016 | 6,485 | 531 |

PBS-RC01 – 100 Area River Corridor Cleanup

Cost Variance = **\$335K; 7.5%**

Cause: Accrual adjustment for FY01 carryover.

Resolution: N/A

Cause: Cost credit was received for 100 N legal support costs.

Resolution: N/A. Legal support activities have been closed.

PBS-RC02 – 300 Area Cleanup

Cost Variance = **\$75K; 16.4%**

Cause: 300-FF-1 procurement packages required less labor than planned, resulting in an underrun.

Resolution: Underrun has been reflected in the EAC.

Cause: Coordination of 300-FF-2 and burial grounds design efforts resulted in an underrun.

Resolution: Underrun has been reflected in the EAC.

PBS-RC05 – River Corridor Waste Management

Cost Variance = **\$121K; 5.9%**

Cause: Accruals were understated.

Resolution: Accruals will be corrected in November.

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ISSUES (REGULATORY/EXTERNAL/DOE):

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 date 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). *Tri-Party Agreement* Major Milestone M-16-00 compliance date is September 30, 2018.

Status: An Agreement in Principle (AIP) was signed by RL, the U.S. Environmental Protection Agency (EPA), and the Washington State Department of Ecology (Ecology) on October 31 outlining the 100/300 Area *Tri-Party Agreement* milestone negotiation process. Negotiations are currently proceeding to address M-16 and M-93 milestones for the 100/300 Areas. Target date for reaching agreement on the *Tri-Party Agreement* milestone change packages is December 31, 2001.

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.

Status: An AIP was signed by RL, EPA, and Ecology on October 31 outlining the 100/300 Area *Tri-Party Agreement* milestone negotiation process. Negotiations are currently proceeding to address M-16 and M-93 milestones for the 100/300 Areas. Target date for reaching agreement on the *Tri-Party Agreement* milestone change packages is December 31, 2001.

Fuel Element Discovery: The discovery of a fifth fuel element in the F Reactor FSB was confirmed on September 26.

Status: The ASA limit for fuel in the basin was originally five elements. Several other documents, in addition to the ASA, were revised to reflect the higher than anticipated number of fuel elements found before intrusive work can continue. The elements will be shipped to K Basin in accordance with the previously approved Safety Analysis Report Plan [SARP], which is not impacted by the new number. Issue closed.

Increased Hot Spots and Radiation Levels: The number of hot spots currently found in F Reactor FSB and the radiation levels exceed the assumptions made during preparation of the current cleanout schedule. This is causing:

- Increased radiation monitoring and survey documentation
- Revised As Low as Reasonably Achievable (ALARA) planning and dose estimates (tracking individual dose of personnel)
- Excavation taking longer due to hot spot removal in larger areas
- High radiation area control constant versus sporadic (as planned)

Status: Each hot spot is worked as it is verified, refining techniques for hot spot excavation, and basket and debris removal.

D&D Worker Turnover: 13 out of 17 Reactor ISS D&D staff have transferred through the Labor Assets Management Program (LAMP) process.

Status: In October, two additional D&D workers LAMPed out, thus minimizing remaining worker knowledge base. Currently, the project is rearranging staff for more experienced staff to support critical work (F Basin).

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INTEGRATION ACTIVITIES:

River Corridor Restoration:

Support was provided in the development of the Annual Hanford Site Permitting Status Report, transmitted to RL in October. This report meets Ecology's dangerous waste permit requirements for a listing of current environmental permits and construction approvals. This status report serves as the documentation satisfying this requirement for interim and final status treatment, storage, and disposal units.

Section C - Central Plateau Transition

CP01 - 200 Area Remediation



Rigging Attachment to Vessel L-13 at 233-S



Vessel Removal at 233-S



Radiological Control Technician Survey for Rebar Scan at 276-U

RCT Smoke Testing Air Flow in the REDOX Sample Gallery

Data as of month-end October

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SECTION C – CENTRAL PLATEAU TRANSITION

Data as of month-end October.

ACCOMPLISHMENTS:

200 Area Remediation (CP01):

Central Plateau remediation and groundwater monitoring activities that were performed in October included the following:

- Initiated work on Draft A of the 200-MW-1 and 200-LW-1 Operable Unit work plans in support of *Tri-Party Agreement* Milestone M-13-00L (due December 31).
- Initiated FY02 field work (test pit characterization) for the 200 Area Chemical Sewer Operable Unit (200-CS-1).
- Initiated drilling within the Plutonium Finishing Plant (PFP) protected area in support of the carbon tetrachloride investigation.
- In the 200 Area, two groundwater pump and treat systems (200-UP-1 and 200-ZP-1) operated above the planned 90% availability levels in October, processing approximately 48 million liters of groundwater. Approximately 130 kilograms of carbon tetrachloride were removed by 200-ZP-1. Since system inception, these two pump and treat systems have processed approximately 1.63 billion liters of groundwater. Approximately 5,936 kilograms of carbon tetrachloride were removed by 200-ZP-1. Approximately 539 million liters have been transported to the ETF for processing since 200-UP-1 began operation. 343 million liters were previously processed prior to using ETF.
- The 200-PW-1 (previously designated as 200-ZP-2) vapor extraction system was removed from service in October for winter shutdown, as planned. The system is scheduled for restart in April 2002.

October decommissioning activities that were accomplished in the highly contaminated 233-S Plutonium Concentration Facility included the following:

- Completed removal of the L-11 and L-13 process hood vessels. To date, 11 vessels have been removed on or ahead of schedule. A total of 15 vessels are planned for removal by June 2002. The original baseline was for six vessels to be removed by that date.
- Commenced L-10 vessel removal.
- Removed approximately 37 meters (123 feet) of process hood pipe.
- Commenced NDA; subcontractor began assaying on October 25.
- Completed Sample and Analysis Plan (SAP) revision.

Central Plateau S&M activities that were performed in October to ensure inactive facility integrity and safety included the following:

- Issued the final report for the PUREX E Field Radiation Area Remedial Action (RARA) activity.
- Completed 200 Area asbestos abatement initial burial records review/approval.
- Completed Plant Force Work Review (PFWR), ecological and cultural review, and obtained excavation permit approvals for both the 211-U Tank Farm Area and U Plant Railroad Cut RARA interim stabilization tasks. These tasks are planned to begin in late November and mid-December. PFWR submittal and approval were also completed ahead of schedule for 291-U stack work scheduled to begin in late January.
- Completed winterization of deactivated facilities as scheduled.
- Completed preparation of the Central Plateau herbicide/pesticide subcontract. The contract award is anticipated by late November 2001.
- Completed development of waste profiles in preparation of hexone tank interim stabilization. Preparation of the Notice of Construction (NOC) permit for hexone tank interim stabilization was also initiated.

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ACCOMPLISHMENTS continued:

- Initiated preparatory work for the B Plant filter changeout.
- Rev. B of the CDI Proposed Plan was transmitted to RL for submittal to the regulators. The public comment period is planned for early 2002. The preferred alternative for U Plant will be formalized after comments have been received.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

| TPA Milestone | Description | Due Date | (F)/(A) Date |
|---------------|--|----------|--------------|
| M-13-26 | Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan | 12/31/01 | 12/20/01 (F) |
| M-13-00L | Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans | 12/31/01 | 12/31/01 (F) |
| M-15-40A | Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis | 9/30/02 | 9/30/02 (F) |
| M-15-42B | Submit 200-TW-2 OU Draft A Remedial Investigation Report to Ecology | 9/30/02 | 9/30/02 (F) |
| M-15-41B | Submit 200-TW-1 OU Draft A Remedial Investigation Report to EPA | 10/30/02 | 10/30/02 (F) |
| M-13-00M | Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans | 12/31/02 | 12/31/02 (F) |
| M-20-39 | Submit 216-S-10 Pond and Ditch Closure/Post Closure Plan to Ecology in Coordination with the Work Plan for the Chemical Sewer Group | 2/28/03 | 2/28/03 (F) |
| M-15-38A | Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification | 3/31/03 | 3/31/03 (F) |

PERFORMANCE OBJECTIVES:

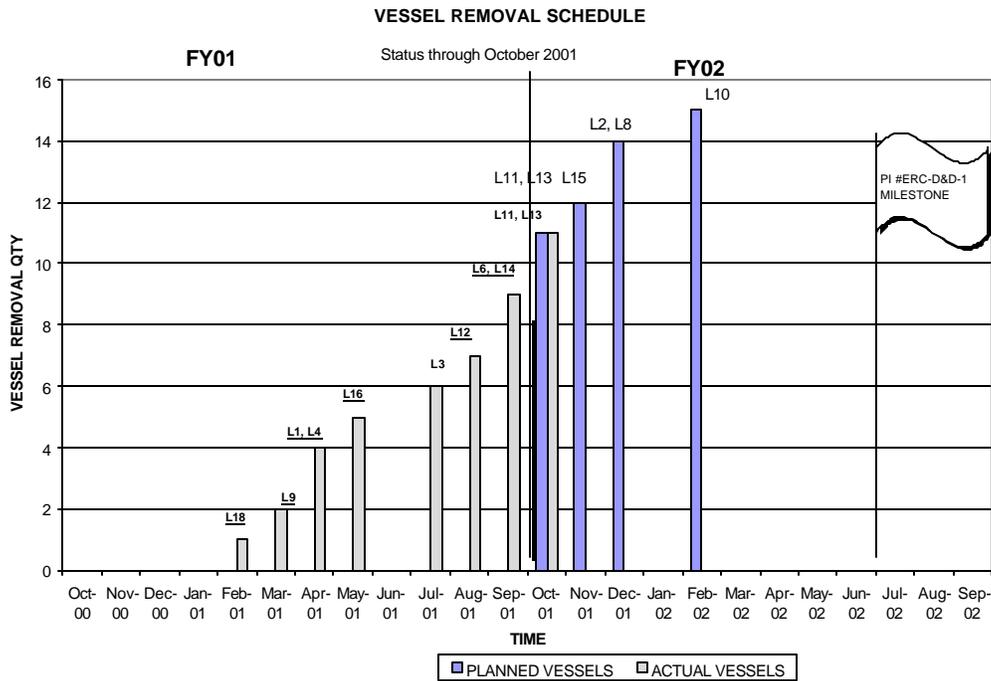
| PI | Task | Status |
|--------|---|--|
| 233-S* | <ul style="list-style-type: none"> • 8 vessels by 6/30/02 • 7 additional vessels by 6/30/02 (Stretch) | On schedule to remove 15 vessels by 6/30/02. |



*Multi-year PI developed in FY01. RL has not formally transmitted final FY02 PIs to BHI.

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PERFORMANCE MEASURES/METRICS:



STRETCH AND SUPERSTRETCH GOALS:

RL has not formally transmitted final FY02 goals to BHI.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

| Central Plateau Transition | BCWS | BCWP | Variance |
|---|--------------|--------------|--------------|
| | \$K | \$K | \$K |
| CP01 200 Area Remediation | 2,748 | 2,539 | (209) |
| TOTAL Central Plateau Transition | 2,748 | 2,539 | (209) |

PBS-CP01 – 200 Area Remediation

Schedule Variance = **(\$209K)**; **(7.6%)**

Cause: Hexone interim stabilization activities are behind schedule due to delay of the alternative selection decision.

Resolution: A decision is anticipated by the end of November. Will monitor; has been trended.

Cause: Process hood vessel waste removal and nondestructive assay (NDA) activities at the 233-S facility D&D project are behind schedule due to NDA error ramifications and delay of subcontract placement.

Resolution: First shipment to the Central Waste Complex (CWC) is scheduled for December; NDA subcontract has been signed and work has commenced.

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OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

| Central Plateau Transition | FY02 EAC | BCWP | ACWP | Variance |
|---|---------------|--------------|--------------|------------|
| | | \$K | \$K | \$K |
| CP01 200 Area Remediation | 33,193 | 2,539 | 2,166 | 373 |
| TOTAL Central Plateau Transition | 33,193 | 2,539 | 2,166 | 373 |

PBS-CP01 – 200 Area Remediation

Cost Variance = **\$373K; 14.7%**

Cause: 200-CS-1 test pit pre-job planning required less effort than planned; combined effort with work for another Hanford Site contractor resulted in an underrun.

Resolution: Underrun has been trended and reflected in the EAC.

Cause: Less labor costed than planned for the 233-S facility D&D and late accrual of material purchases resulted in an underrun.

Resolution: An additional Radiation Control Technician (RCT) will be assigned in late November. Underrun reflected in the EAC.

ISSUES (REGULATORY/EXTERNAL/DOE):

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). *Tri-Party Agreement* Milestones M-13-00X require submittal of 3-4 work plans per year, such that the RI/FS's for the past practices waste sites will be completed by December 31, 2005. *Tri-Party Agreement* Milestones M-20-XX require the completion of RCRA closure plans by February 28, 2004.

Status: Currently, two additional work plans are being developed per RL direction received on October 2 to meet M-13-00L. An AIP has been drafted and is to be signed in early December by RL and the regulators. Negotiations will then proceed to address *Tri-Party Agreement* Milestones M-13, M-15, M-16, and M-20 for the 200 Area. The Tri-Parties anticipate agreement on draft change requests by January 31, 2002.

233-S Process Hood: 232 items of NDA information previously provided by Fluor Hanford (FH) Plutonium Finishing Plant (PFP) in final data reports are invalid because of calibration errors that occurred in May 1999. 23 of the 232 packages were shipped to ERDF using PFP's invalid numbers.

Status: It has been decided to exhume Box 39 from ERDF and perform NDA of its contents. This assay will determine the disposition of the remaining boxes at ERDF.

Standard Waste Box (SWB): The SWB SARP has not been revised in approximately two years and no revisions are planned. Multiple Hanford Site contractors are procuring SWB containers to a drawing revision more recent than that listed in the SARP. Lack of an up to date SARP may preclude shipment of transuranic (TRU) waste to the CWC.

Status: It has been determined the SWB SARP will not be included in the Hanford Site-wide Transportation Safety Document (TSD). ERC Waste Management will attempt to determine if an exemption can be utilized to allow the project to ship waste to CWC using an SWB.

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INTEGRATION ACTIVITIES:

None identified at this time.

Section D - Site Integration & Infrastructure

SS03 - Groundwater Management & Monitoring
SS04 - Groundwater/Vadose Zone Integration



Cable Tool Drilling at the 241-TX Tank Farm



Air Rotary Drilling at the SX Tank Farm



Geophysical Logging at the
241-S/SX Tank Farm

Data as of month-end October

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SECTION D – SITE INTEGRATION & INFRASTRUCTURE

Data as of month-end October.

ACCOMPLISHMENTS:

Groundwater Management and Monitoring (SS03):

Tri-Party Agreement Milestone M-24-54, "Install One Additional Well at SST WMA T" (due December 31) was completed on October 18, ten weeks ahead of schedule. The remainder of the CY01 RCRA well drilling is expected to be completed mid-November, which will satisfy *Tri-Party Agreement* Milestone M-24-00M (due December 31).

The FY02 Integrated Hanford Groundwater Monitoring Plan was published.

Groundwater/Vadose Zone Integration (SS04):

The initial SAC results were presented to the regulators and other Hanford Site programs including the ORP and HQ Top-to-Bottom Review personnel.

The Central Plateau Risk Framework was presented to the Oregon Hanford Waste Board.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

| TPA Milestone | Description | Due Date | (F)/(A) Date |
|---------------|---|----------|--------------|
| M-24-53 | Install Two (2) Additional Wells at SST WMA TX-TY | 12/31/01 | 11/8/01 (F) |
| M-24-54 | Install One (1) Additional Well at SST WMA T | 12/31/01 | 10/18/01 (A) |
| M-24-55 | Install Two (2) Additional Wells at SST WMA S-SX | 12/31/01 | 11/8/01 (F) |
| M-24-00M | Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2001 if Required | 12/31/01 | 11/8/01 (F) |
| M-24-00N | Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2002 if Required | 12/31/02 | 12/31/02 (F) |

PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 PIs to BHI.

PERFORMANCE MEASURES/METRICS:

None identified at this time.

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STRETCH AND SUPERSTRETCH GOALS:

RL has not formally transmitted final FY02 goals to BHI.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

| Site Integration & Infrastructure | BCWS | BCWP | Variance |
|--|--------------|--------------|--------------|
| | \$K | \$K | \$K |
| SS03 – Groundwater Management & Monitoring | 1,651 | 1,523 | (128) |
| SS04 - Groundwater/Vadose Zone Integration | 751 | 555 | (196) |
| TOTAL Site Integration & Infrastructure | 2,402 | 2,078 | (324) |

SS03 – Groundwater Management & Monitoring

Schedule Variance = **(\$128K); (7.8%)**

Cause: RCRA drilling on well C3396 reclassified to high risk resulting in changed drilling methodology.

Resolution: Schedule will be recovered in November.

Cause: Groundwater monitoring activities started later than planned and some resources being shared.

Resolution: Schedule variance expected to be recovered.

PBS-SS04 – Groundwater/Vadose Zone Integration

Schedule Variance = **(\$196K); (26.1%)**

Cause: Behind schedule on S&T tank farm experimental studies and report issuance due to higher priority work.

Resolution: Additional resources assigned to the task; alternative samples identified for carbon tetrachloride experiments.

Cause: Scope to place the Virtual Library on the internet postponed due to security concerns.

Resolution: Scope will be deferred per RL; a BCP will be prepared.

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OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

| Site Integration & Infrastructure | FY02 EAC | BCWP | ACWP | Variance |
|--|---------------|--------------|--------------|------------|
| | | \$K | \$K | \$K |
| SS03 – Groundwater Management & Monitoring | 18,155 | 1,523 | 1,315 | 208 |
| SS04 - Groundwater/Vadose Zone Integration | 6,916 | 555 | 270 | 285 |
| TOTAL Site Integration & Infrastructure | 25,071 | 2,078 | 1,585 | 493 |

PBS-SS03 – Groundwater Management & Monitoring

Cost Variance = **\$208K; 13.7%**

Cause: Underrun due to missed accrual in groundwater sampling and offsite analysis costs.

Resolution: Accrual will be corrected in November.

PBS-SS04 –Groundwater/Vadoze Zone Integration

Cost Variance = **\$285K; 51.4%**

Cause: Underrun due to missed accruals, fiscal year start-up issues, and decrease in costs associated with the SAC computer purchase and software modification.

Resolution: Accruals will be corrected in November. Costs related to the SAC computer purchase and software modification are expected to increase.

ISSUES (REGULATORY/EXTERNAL/DOE):

None identified at this time.

INTEGRATION ACTIVITIES:

None identified at this time.