

HANFORD SITE

Environmental Restoration Contract *Monthly Performance Report*

October 2003

Accelerating Cleanup ...



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

October 2003 Monthly Report

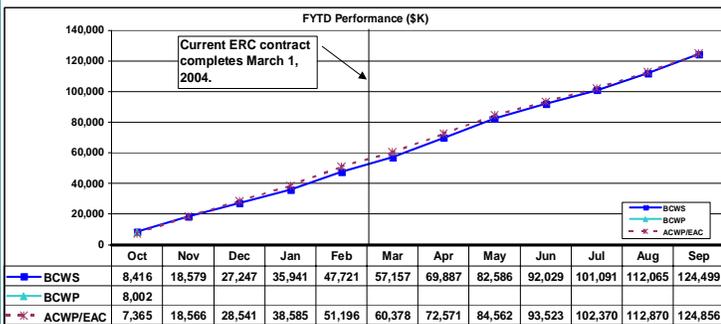
SAFETY:

During the period October 1, 2003 through October 31, 2003, the ERC experienced 0 first aid incidents and 1 lost away injury, which equates to having **97% of the workdays injury free**. 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.

HIGHLIGHTS: (AHEAD; BEHIND)

- Received proposals for 100 B/C Burial Grounds and Remaining Sites on October 22. Award scheduled for early December. Work is scheduled to begin in January 2004.
- Issued RFP for 116-N-1 Crib/Trench remediation to pre-qualified bidders on October 30. Pre-bid meeting is scheduled for November 11.
- Awarded 300-FF-1 and 618-5 Burial Ground regrade subcontract on October 8.
- Completed disposal of all uranium oxide drums from the 618-4 Burial Ground on October 27.
- Initiated construction of ERDF Cells 5 and 6 on October 7.
- Completed hot spot removal from H Reactor FSB. Terminated night shift at FSB on October 17.
- Discussed scoping statements for 100/300 Area Baseline Risk Assessment with regulators, Tribes, and stakeholders.
- Completed a calculation brief for the beta radioactivity inventory in the 618-2 Burial Ground. The revised inventory supports maintaining the burial ground below a Category 3 Hazard Rating, thereby requiring significantly less remedial design safety documentation.
- Implemented Phase I of the Occurrence Reporting and Processing System (ORPS) on schedule.
- Implemented FY04 Detailed Work Plan and incorporated FY03 carryover.

PERFORMANCE:



- SV:** (\$414K); (4.9%). Additional plumes at 100 B/C delayed backfill and sampling; ERDF expansion activities delayed due to late mobilization; deferral of B Reactor structural analysis and final configuration evaluation report.
- CV:** \$637K; 8.0%. H Reactor FSB night shift ended requiring fewer resources than planned; no accrual for treatment of uranium chips-in-oil drums; reduction in ERC's share of Site medical costs.

UPCOMING KEY ACTIVITIES:

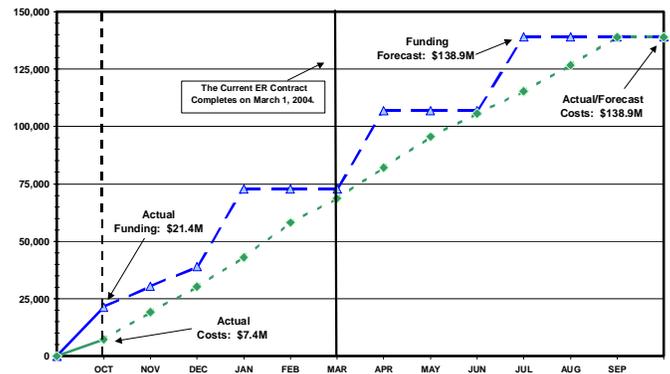
- Complete 100 B/C pipeline excavation/removal (M-16-26E); begin backfill activities.
- Initiate remediation of four 100 B/C Burial Grounds.
- Initiate 300 Area regrade (M-16-03H).
- Receive regulator approval of F Reactor S&M Plan (M-93-11).
- Complete D Reactor SSE design.
- Initiate development of a Community Relations Plan, Tribal Relations Plan, and RI Work Plan, as well as compilation of existing data and conduct of field gamma surveys for 100/300 Area Baseline Risk Assessment.

TPA MILESTONES:

Three TPA milestones are scheduled for completion during FY04:

- M-16-03H, Complete 300 Area regrade (due 6/30/04); *forecast 3/1/04*.
- M-16-26E, Complete 100 B/C pipeline excavation (due 9/30/04); *forecast 11/15/03*.
- M-93-11, Complete F Reactor ISS (due 9/30/04); *forecast 12/31/03*.

FUNDING:



TRENDS:

Current month: \$440K

- Subcontract cost for treatment of uranium chips-in-oil.

PERFORMANCE INCENTIVES: (JULY THROUGH OCTOBER 2003)

All PIs were achieved on or ahead of schedule. These include:

- Safety.
- Ship pyrophoric uranium drums for treatment by 11/1/03.
- Dispose of uranium oxide drums by 11/1/03.
- Complete F Reactor ISS activities by 9/30/03.
- Prepare H Reactor FSB for demolition; complete hot spot and associated fuel removal from FSB by 11/1/03.

ISSUES:

None at this time.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

October 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS: (AHEAD; BEHIND)

H Reactor:

- Identified 11 additional hot spots in H Reactor FSB Section 4 with LARADs survey. Completed hot spot removal from Section 4. A total of 8 spent fuel elements were found during H Reactor FSB excavation.
- Completed soil loadout from Section 4 into ERDF containers.
- Completed hot spot removal (#32) within the opening of the west transfer pit.
- Completed final rows of lower fill removal inside FSB (#24, #32, and south corridor). Applied fixative to all exposed areas (final).
- Terminated night shift at FSB on October 17.

D Reactor:

- Continued D Reactor SSE design.

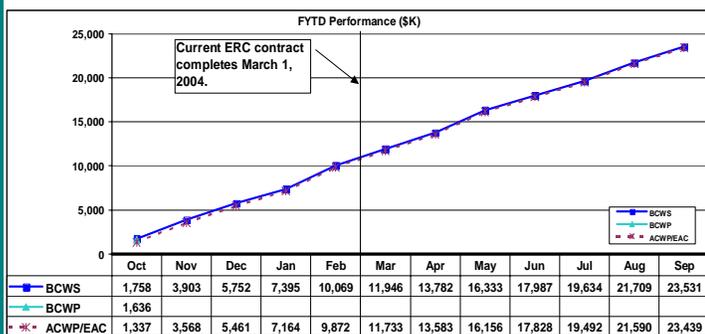
S&M:

- Performed site and facility surveillance and maintenance activities.

UPCOMING KEY ACTIVITIES:

- Receive regulator comments on F Reactor S&M Plan - 11/03.
- Complete D Reactor SSE design - 11/03.
- Complete H Reactor FSB excavation - 2/04.

PERFORMANCE:

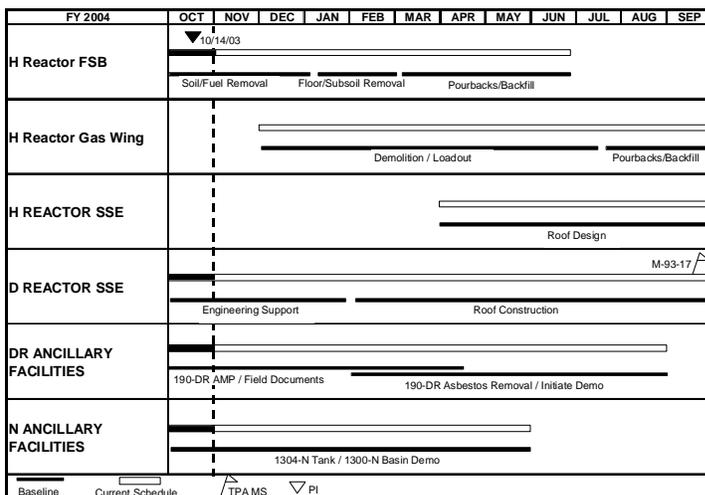


- SV:** (\$122K); (6.9%). Delay in starting 190-DR activities due to time-phasing of work. Deferral of structural analysis and end-state final disposition for B Reactor.
- CV:** \$299K; 18.3%. H Reactor FSB night shift ended upon completing hot spot removal; fewer resources required than planned.

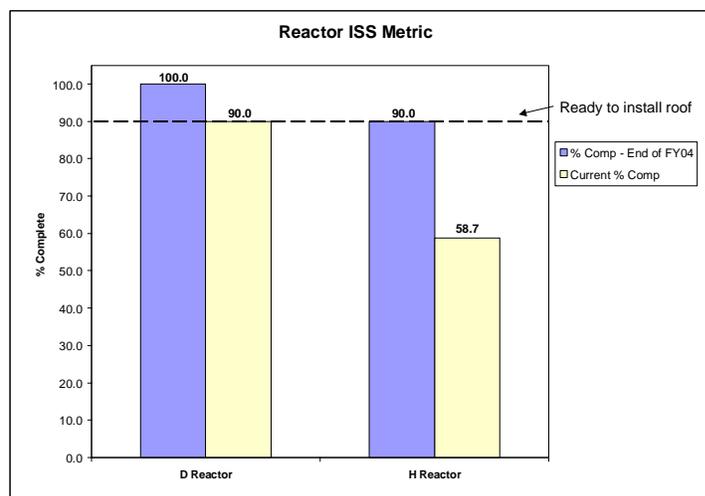
TPA MILESTONES:

- M-93-11, Complete F Reactor ISS (due 9/30/04); *forecast 12/31/03*. (Physical ISS work completed in August; awaiting regulator approval of S&M Plan.)
- M-93-17, Complete D Reactor ISS (due 12/31/04); *forecast 9/30/04*.

SUMMARY SCHEDULE:



ISS METRIC:



TRENDS:

Current month: (\$13.8K)

- F Reactor transition support less than planned.

PERFORMANCE INCENTIVES:

- Complete F Reactor ISS activities by 9/30/03. *Complete; acceptance of subcontract completion issued on 9/11/03. NOC package is planned for transmittal to RL on 11/12/03.*
- Prepare H Reactor FSB for demolition; complete hot spot and associated fuel removal from FSB by 11/1/03. *Completed on 10/14/03. NOC package is planned for transmittal to RL on 11/12/03.*

ISSUES:

Mud dauber contamination legacy (H Reactor). Surveying/downposting areas within site perimeter fence ongoing; 80-90% of areas previously posted have been recovered to original postings. Areas within reactor building and SSE will be surveyed next.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

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SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

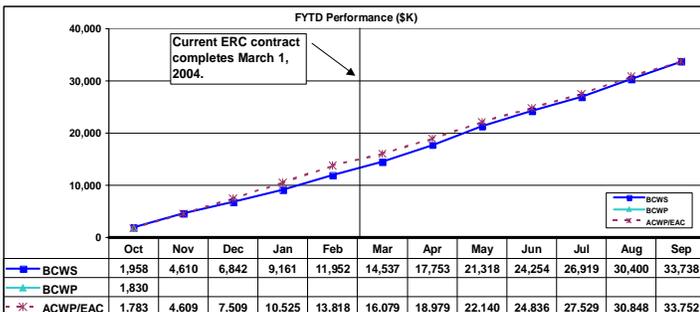
HIGHLIGHTS: (AHEAD; BEHIND)

- Continued evaluation and cleanup of remaining 100 B/C pipeline plumes. In order to meet schedule deadlines, excavation of last remaining plume was initiated and is scheduled for completion in early November.
- Initiated cleanup of numerous debris piles remaining from 100 B/C remedial action activities; planned for completion in November.
- Received proposals for 100 B/C Burial Grounds and Remaining Sites on October 22. Will award in early December. Work will begin in January 2004.
- Excavated 4,700 tons of waste from 100 B/C Area since October 1, 2003.
- Issued RFP for 116-N-1 Crib/Trench remediation to pre-qualified bidders on October 30. Pre-bid meeting is scheduled for November 11.
- Ecology approved RCRA Permit schedule modification to extend deadline for remediation completion of N Area TSD sites from 2003 to December 2005.
- Awarded 300-FF-1 and 618-5 Burial Ground regrade subcontract on October 8.
- Completed plume excavation and verification sampling at 116-KW-3 Retention Basin.
- Initiated excavation of 116-KE-4 Retention Basin.
- Completed 116-KE-1 and 116-KW-1 Condensate Crib design.
- Excavated 36,600 tons of waste from 100 K Area during FY04.

ISSUES:

None at this time.

PERFORMANCE:

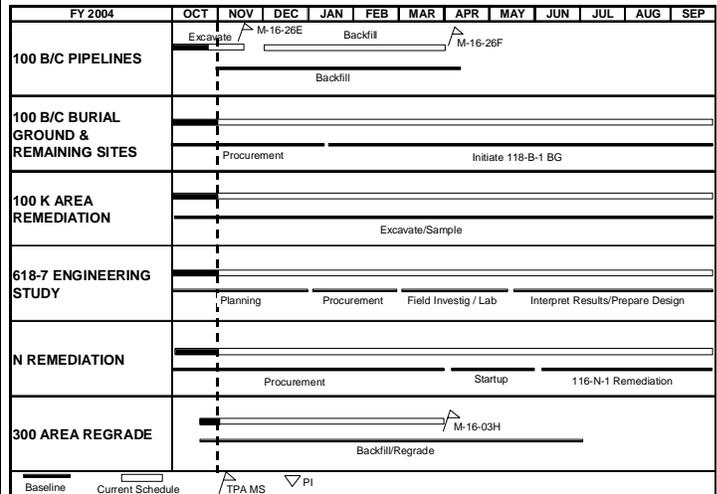


- SV:** (\$128K); (6.5%). Additional plumes at 100 B/C delayed backfill, civil surveys, debris disposal, and sample analysis.
- CV:** \$47K; 2.6%. Credit received for return of 300-FF-1 unused soil bags.

TPA MILESTONES:

- M-16-03H, Complete 300-FF-1 and 618-5 Burial Ground regrade (due 6/30/04); forecast 3/1/04.
- M-16-26E, Complete excavation/removal of 100 B/C pipelines (due 9/30/04); forecast 11/15/03.
- M-16-26F, Complete backfill of 100 B/C pipelines (due 2/28/05); forecast 3/30/04.

SUMMARY SCHEDULE:



UPCOMING KEY ACTIVITIES:

- Begin backfill of 100 B/C pipeline excavation (north of B Avenue) in late November.
- Initiate remediation for four 100 B/C Burial Grounds mid-November (accelerated scope).
- Initiate 300 Area regrade on November 10. Anticipate starting a second shift to move material from Pit 6 on west side of highway over to regrade area (accelerated scope).
- Commence/complete remediation of five small K Area sites and the 116-KE-1 / 116-KW-1 Condensate Crib (accelerated scope).

TRENDS:

Current month: \$14K

- Unplanned litigation cost associated with termination of previous 100-FR subcontractor--\$84K
- Credit for return of unused soil bags at 300-FF-1--(\$61K).

PERFORMANCE INCENTIVES:

N/A

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

October 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced.

- Occurrence: Airborne radiological incident at ERDF Disposal (RL-ERDF-2003-0005).

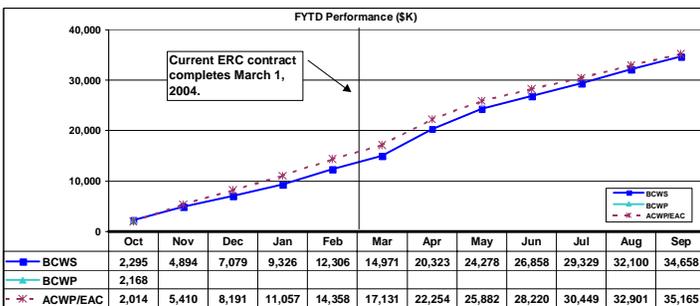
HIGHLIGHTS: (AHEAD; BEHIND)

- Completed disposal of all uranium oxide drums from the 618-4 Burial Ground on October 27.
- Received 42,232 tons of waste in ERDF during October. 4,559,997 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Conducted a readiness review on October 6 for ERDF expansion Cells 5 and 6. Initiated excavation on October 7.

UPCOMING KEY ACTIVITIES:

- Complete treatment of depleted uranium chips-in-oil drummed waste (from 618-4 Burial Ground) that was sent to Oak Ridge in September. All treatment is expected to be complete by April 2004. Treated waste will be returned to ERDF for disposal. (M-16-03I).
- Complete bench-scale tests for treatment of 183-H Solar Basin waste in November. ERDF will begin receiving drummed waste requiring treatment in December; full-scale treatment will continue for several months.
- Begin receiving waste from 116-KW-1 and 116-KW-2 that is expected to contain elevated levels of carbon-14. ERDF Performance Assessment identifies carbon-14 as a highly mobile radionuclide and establishes restrictions for its placement into ERDF. Waste will be treated at ERDF to immobilize the carbon-14 prior to disposal (K Area accelerated scope).
- Initiate 90-day infiltrometer test that supports admix preparation process for ERDF Cells 5 and 6 by late November.

PERFORMANCE:

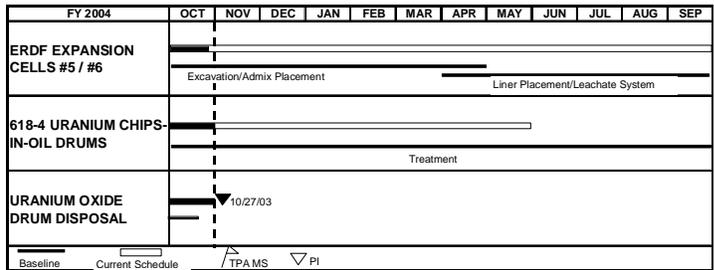


- **SV:** (\$127K); (5.5%). ERDF expansion excavation activities delayed due to late FY03 mobilization; subcontractor excavation behind schedule.
- **CV:** \$154K; 7.1%. No accrual for treatment of uranium chips-in-oil drums.

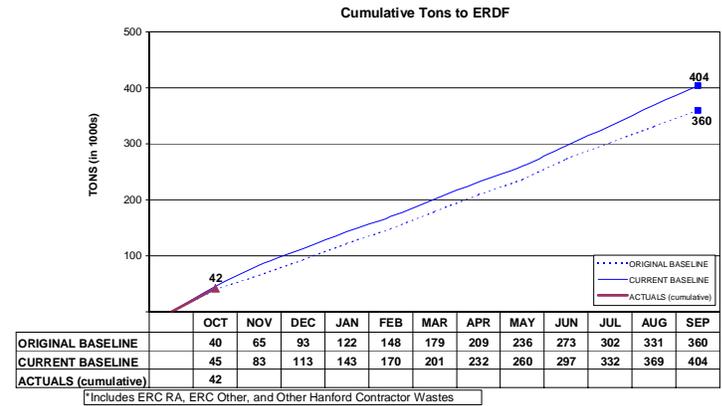
TPA MILESTONES:

M-16-03I, Complete treatment of drummed waste from 618-4 Burial Ground (due TBD).

SUMMARY SCHEDULE:



ERDF TONNAGE:



TRENDS:

Current month: \$507K

- Subcontract cost for treatment of uranium chips-in-oil (DWP shortfall).

PERFORMANCE INCENTIVES:

- Ship pyrophoric uranium drums for treatment by 11/1/03. Complete; final shipment received at treatment facility on 9/26/03. NOC package is planned for transmittal to RL on 11/10/03.
- Dispose of uranium oxide drums by 11/1/03. Completed on 10/27/03. NOC package is planned for transmittal to RL on 11/10/03.

ISSUES:

None at this time.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

October 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

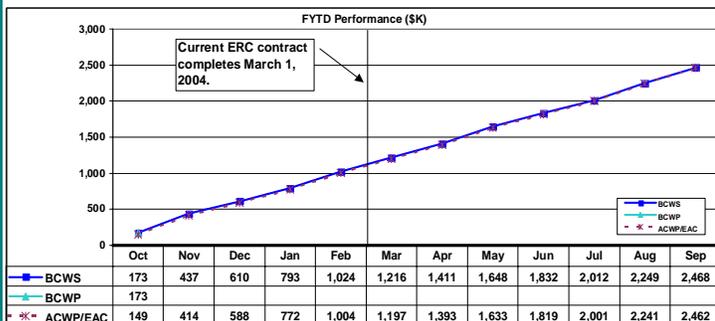
HIGHLIGHTS: (AHEAD; BEHIND)

- Discussed scoping statements for 100/300 Area Baseline Risk Assessment with regulators, Tribes, and stakeholders.
- Provided information to RL on CERCLA activities, completed and planned, for 100 Area waste sites to meet HQ direction for a new initiative to revise cleanup criteria that are based on more likely future land uses and associated risks.
- Completed four procedure modifications to ensure biological transport vectors are considered during Project planning/implementation phases. Wrote a draft biological transport vector plan/training guide for use by Project personnel to identify the potential for attracting bio-vectors at a site during project walkdowns.
- **Delivered Draft A of the "Conceptual Site Model for the 100 B/C Pilot Project Ecological Risk Assessment" to RL on October 29, one day ahead of the due date.**
- Completed a calculation brief for the beta radioactivity inventory in the 618-2 Burial Ground. The revised inventory supports maintaining the burial ground below a Category 3 Hazard Rating, thereby requiring significantly less remedial design safety documentation.

UPCOMING KEY ACTIVITIES:

- Development of a Community Relations Plan, Tribal Relations Plan, and RI Work Plan, as well as compilation of existing data and conduct of field gamma surveys for 100/300 Area Baseline Risk Assessment.
- Finalize Biological Transport Vector Training Guide in November, and provide training to applicable staff by December 1.
- Continue documentation of all D&D and Remedial Action waste sites within 100 meters of 105 reactors to identify any gaps in CVP coverage and plan for site closure documentation with future CVPs.
- Continue verification of sample location data for each of the Confirmatory Sampling waste sites documented using MP-14 calculation brief documentation process.

PERFORMANCE:

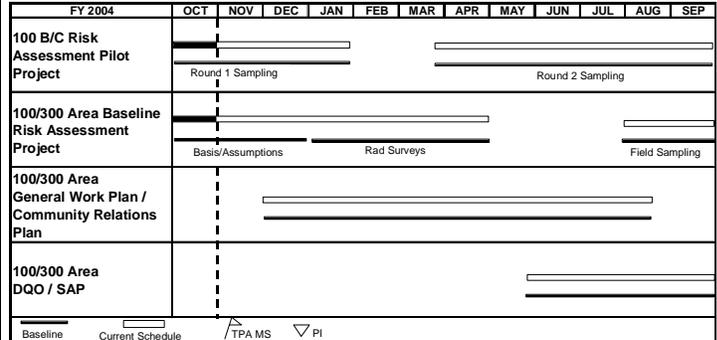


- **SV:** \$0K; 0%. N/A.
- **CV:** \$24K; 13.9%. N/A.

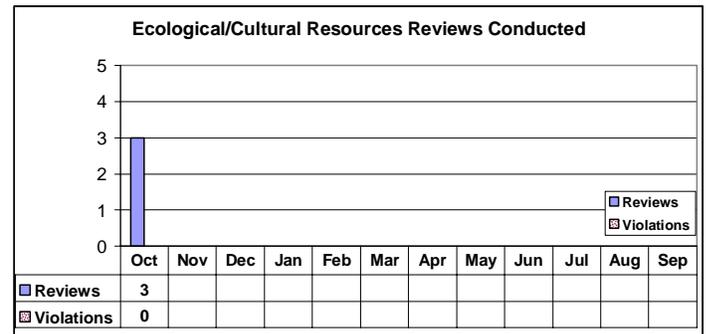
TPA MILESTONES:

No FY04 milestones.

SUMMARY SCHEDULE:



PROJECT REVIEWS CONDUCTED:



TRENDS:

None at this time.

PERFORMANCE INCENTIVES:

N/A

ISSUES:

None at this time.

ENVIRONMENTAL RESTORATION PROGRAM MANAGEMENT AND SUPPORT PROJECT

October 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS: (AHEAD; BEHIND)

S&H / ARQP:

- Implemented Phase I of the Occurrence Reporting and Processing System (ORPS) on schedule.
- Responded to DOE Assessment A-02-SHQ-GENAREAS-002. All actions are on schedule per corrective action plan included with response.
- Compiled and submitted revised data for 7 ARQP metrics.
- Began modification of Corrective Action Tracking System (CATS) to meet new ORPS reporting requirements.

Program and Project Support:

- Responded to 10 media inquiries, prepared a news release on completion of F Reactor ISS, reviewed a subcontractor press release, and toured the new AP-Yakima reporter at ERC project sites.

Engineering and Technology:

- Completed ERC Fuel Consumption Data Report and submitted to FH for compilation into site-wide summary report.
- Submitted input for the first draft of the Hanford Facility RCRA Permit renewal application to FH for inclusion in the Site renewal application.
- Submitted the annual RCRA Closure/Post Closure Cost Estimate Report for activities for treatment, storage, and disposal units in the RCRA Permit.
- Completed final migration of all archived data in the Project-Specific Database System to the Environmental Restoration Project Database (ENRE).
- Completed FY04 ERC Science and Technology Plan.
- Completed and issued BHI-00747, *General Design Criteria for Richland Environmental Restoration Project, Rev. 3*, and associated document BHI-01376, *ERC Compliance Matrix, Rev. 1*, for implementation by ERC Team.

Planning and Controls:

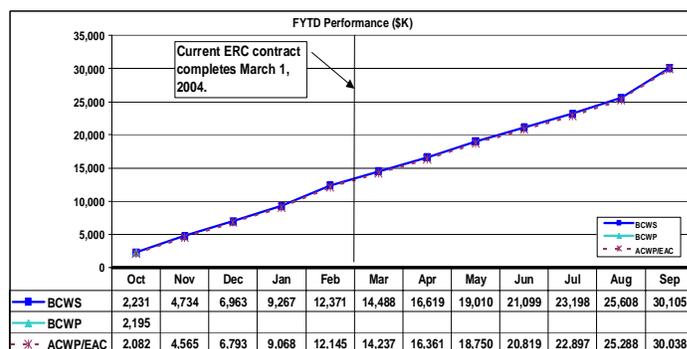
- Implemented FY04 Detailed Work Plan and incorporated FY03 carryover.

UPCOMING KEY ACTIVITIES:

S&H / ARQP:

- Proceed with VPP Star Status application.
- Expecting RL guidance on ISMS recertification.
- Revision of the QA Manual yearly update.

PERFORMANCE:



- **SV:** (\$36K); (1.6%). N/A.
- **CV:** \$113K; 5.1%. Legacy retiree medical costs less than planned due to reduction in ERC's share of Site medical costs; less time calculating FY04 provisional billing rates due to RL's approval to use DWP rates for billing purposes; less litigation costs than anticipated; underruns in areas of Field Sampling and Analysis support due to more direct project support being provided.

TRENDS:

Current month: (\$67K)

- Elimination of FY04 Rev. 0 rate calculations.
- ROS support for RL security assessment.

PERFORMANCE INCENTIVES:

Safety--Protect workers safety and health, public safety and health, and the environment. *BHI corrective actions to the RL radiological contamination survey assessment continues to be aggressively worked. The initial round of internal assessments indicates that the substantial improvement required is in effect, with corrective actions and training ongoing. There were no other significant issues or findings identified July 1 through October 31, 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 two recordable/lost away cases. As of October 31, ERC personnel worked approximately 15,000 hours since the last lost workday incident which occurred on October 28.*

ISSUES:

None at this time.