

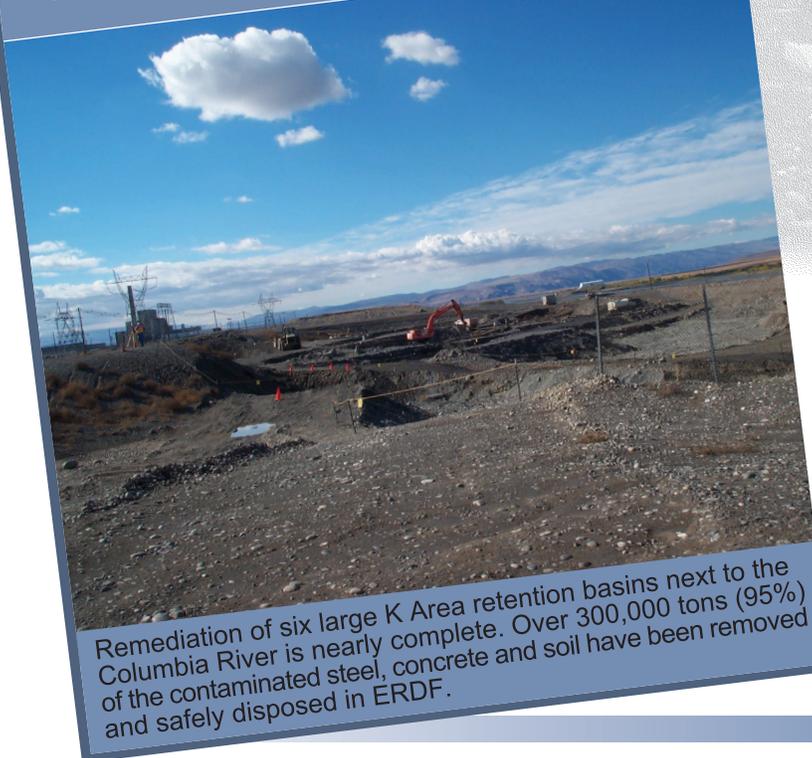
Environmental Restoration Contract

Monthly Performance Report

October 2004



Accelerating Cleanup ...



Remediation of six large K Area retention basins next to the Columbia River is nearly complete. Over 300,000 tons (95%) of the contaminated steel, concrete and soil have been removed and safely disposed in ERDF.



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor



CH2MHILL Hanford Inc.



ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

October 2004 Monthly Report

SAFETY:

As of October 31, 2004, the ERC worked approximately 15,000 hours since the last lost workday incident, which occurred on July 30, 2004 and became lost away on October 27, 2004. The ERC has experienced 84% injury-free workdays during FY05. Current Month: 4 first aids; 2 lost restricted.

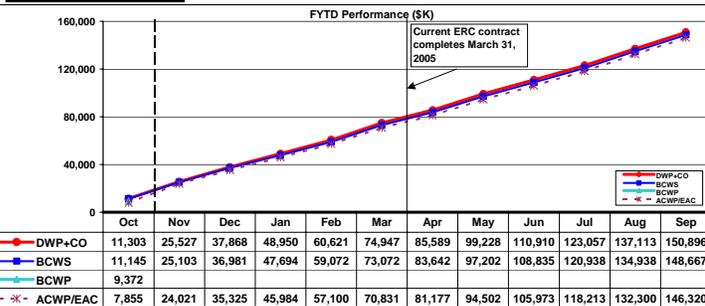
HIGHLIGHTS:

- Completed demolition of H Reactor Area 5 and below-grade area around southeast effluent pipe.
- Conducting IH baseline surveys for all 300 Area buildings transferred from Fluor Hanford (FH).
- Completed SNF characterization at 118-B-1 and 118-C-1 Burial Grounds; developed pathway schedule for SNF.
- Issued RFP for 118-K-1 Burial Ground remediation.
- Initiated remedial design work for 100-IU-2 and 100-IU-6 OUs.
- Completed confirmatory sampling at ten 100-F Area remaining sites.
- Completed excavation at 618-3 Burial Ground.
- Poured two concrete slabs and mobilized equipment for construction of encapsulation vaults for 218-W-4C waste.
- Completed 50% of FY05 100-B/C Pilot Round 2 sampling analysis and data evaluation.
- Conducted second of four DQO public workshops in support of 100/300 Area risk assessment.
- Held kick-off meeting for 300-FF-1 Remedial Action Report.
- Implemented new rate process for FY05.

UPCOMING KEY ACTIVITIES:

- Complete draft RAWP/AMP and DQO for 300 Area facilities.
- Initiate 100-B/C Remaining Pipelines and Sewers (RPAS) remediation.
- Complete 100-F BG and Remaining Sites sampling and design.
- Complete revegetation of ~130 acres at 100-F Area.
- Receive an additional 30 IP-2 roll-off containers.
- Issue Rev. 1 of 100/300 Area Risk Assessment General Work Plan to RL.

PERFORMANCE:



- SV:** (\$1,772K); (15.9%). 100-B/C RPAS mobilization, IP-2 container procurement, and computer equipment/software purchases behind schedule; offset by acceleration of 100-F Area sampling and 300-FF-2 remediation.
- CV:** \$1,517K; 16.2%. ERDF Transportation/Disposal and 300 Area EE/CA utilized fewer resources than planned; legacy retiree medical cost not booked prior to cutoff date; offset by uranium chips-in-oil treatment and H Reactor gas wing and pourback demolition/loadout costs more than planned.

EAC TRENDS:

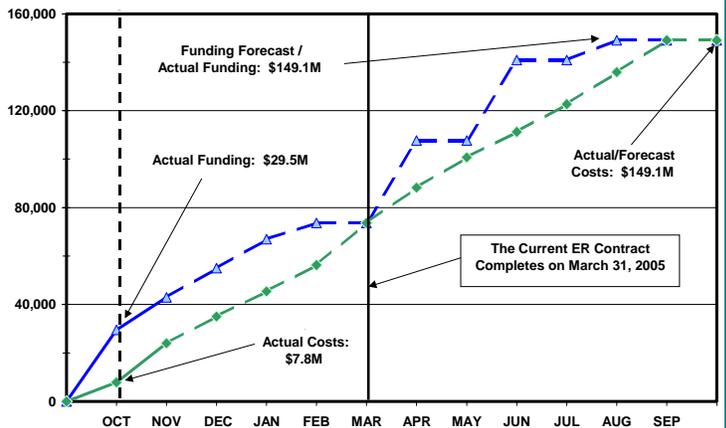
Current Month: (\$2,347K)
FYTD: (\$2,347K)

- FY04 fee forecast reduction.
- Legacy retiree medical cost less than planned.

TPA MILESTONES:

- M-93-24, Submit EE/CA for N Reactor ISS (due 09/30/06); *completed 10/14/04, nearly two years ahead of schedule.*
- M-16-48, Initiate Remedial Actions for Remaining Waste Sites for 100-F Area (due 7/31/05); *forecast on schedule.*
- C-16-06B, Submit Engineering Evaluation of Final Disposition of River Pipelines and Outfall Structures to Regulators (due 7/31/05); *forecast on schedule.*
- C-16-06A, Submit B/C Risk Assessment Pilot Study to Regulators (due 07/31/05); *forecast on schedule.*
- M-93-25, Submit an Engineering Evaluation of Final Surplus Reactor Disposition to Regulators (due 09/30/05); *forecast on schedule.*
- M-93-18, Complete H Reactor ISS (due 12/31/05); *forecast 9/30/05.*

FUNDING:



PERFORMANCE INCENTIVES:

ISSUES:

- Issue:** ER contract requires DOE to issue approved fee plan prior to fiscal year start; this has not occurred.
Concern: BHI needs approved fee plan to ensure DOE's expectations are being met. BHI currently working to draft fee plan.
Action: DOE to expedite issuance of approved fee plan.
- Anticipate minimum of 6-month schedule impact of 118-B-1 and 118-C-1 remediation subject to SNF; may impact TPA Milestone M-16-45 (due 12/31/06).
- Justification for Continued Operations (JCO) is at RL for review. RL approval will allow release of the 67 containers for disposal at ERDF.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

October 2004 Monthly Report

SAFETY:

- FYTD: 2 first aids; 0 recordable-only; 1 lost restricted; 0 lost workday cases; 0 skin contaminations
- Current Month: 2 first aids (sprain, laceration); 1 lost restricted (strain)

HIGHLIGHTS:

H Reactor:

- Completed demolition/processing in Area 5.
- Completed pourback preparation on all below-grade (B/G) areas.
- Completed demolition of B/G area around SE effluent pipe.

D Reactor:

- Began excavation of decontamination pad soils located in two areas around the reactor.

1802-N Steam Piping:

- All activities are on schedule for project completion the week of 11/22/04.

300 Area:

- Conducting IH baseline surveys for all buildings transferred from Fluor.
- Continuing preparation of engineering/regulatory documentation.
- Will relocate ERC personnel supporting engineering/planning requirements to 300 Area on 11/04/04.

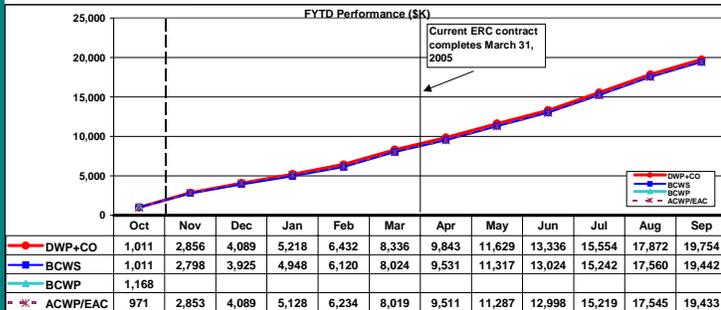
Other:

- 100-K Ancillary Facilities and N Reactor EE/CAs are undergoing public comment (October 20 - November 19); 300 Area EE/CA public comment is October 25 - December 1.

UPCOMING KEY ACTIVITIES:

- Below-grade pourbacks at 105-H - November.
- Complete final housekeeping, transfer 105-D to S&M, weld doors shut - November.
- Complete decon pad excavation/sampling at 105-D - November.
- Complete 300 Area draft RAWP - November.
- Complete DQO and prepare draft SAP for 300 Area - November.
- Complete draft Air Monitoring Plan for 300 Area - November.

PERFORMANCE:



- SV:** \$157K; 15.5%. 190-DR demolition preparation, H Reactor loadout, 300 Area facility characterization ahead of schedule; offset by 107-N ion exchanger sampling delay due to additional building characterization.

- CV:** \$197K; 16.9%. Fewer resources utilized for 300 Area EE/CA; offset by additional resources required for H Reactor gas wing and pourback demolition/loadout.

EAC TRENDS:

Current Month: (\$9K)

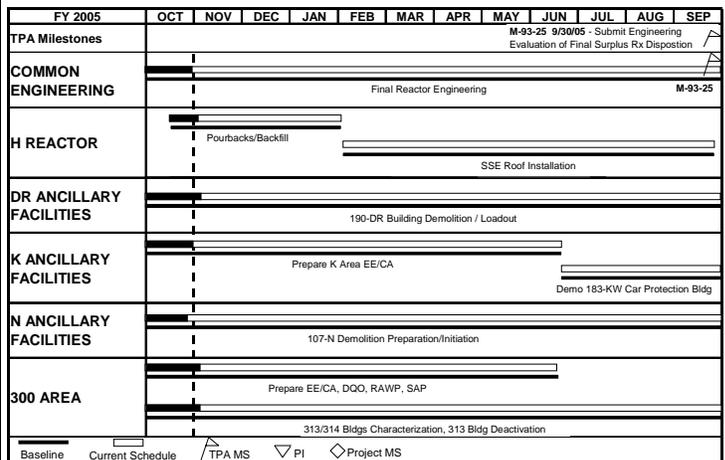
FYTD: (\$9K)

- 300 Area EE/CA less than planned
- H Reactor gas wing demolition/loadout more than planned.

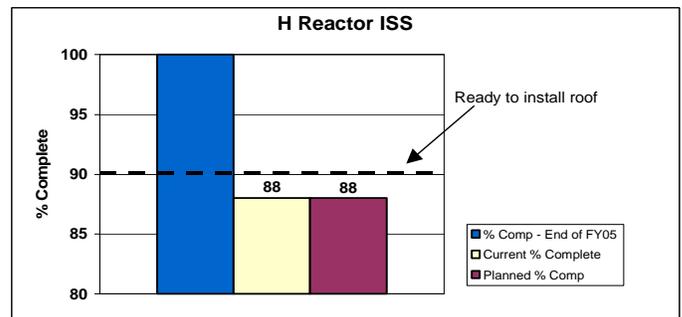
TPA MILESTONES:

- M-93-24, Submit EE/CA for N Reactor ISS (due 09/30/06); *completed 10/14/04, nearly two years ahead of schedule.*
- M-93-25, Submit an Engineering Evaluation of Final Surplus Reactor Disposition to Regulators (due 09/30/05); *forecast on schedule.*
- M-93-18, Complete H Reactor ISS (due 12/31/05); *forecast 9/30/05.*

SUMMARY SCHEDULE:



ISS METRIC:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

October 2004 Monthly Report

SAFETY:

FYTD: 1 first aid; 0 recordable; 0 lost workday cases
Current Month: 1 first aid (insect bite)

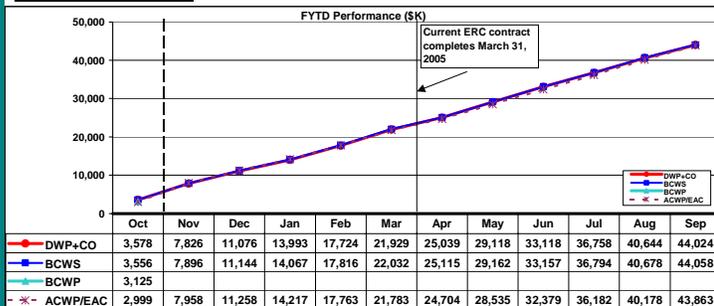
HIGHLIGHTS:

- **Completed excavation/sorting/stockpiling at 126-B-3.**
- Continued excavation and loadout activities at 128-C-1.
- Completed characterization of SNF at 118-B-1 and 118-C-1 Burial Grounds; developed pathway schedule for SNF.
- Conducted a pre-construction meeting on 10/18/04 with RPAS subcontractor; readiness review meeting planned for 11/17/04.
- Continued remediation activities at 116-KE-4 Retention Basin plumes and effluent pipelines.
- Issued RFP for the 118-K-1 Burial Ground remediation.
- Continued remediation of 116-N-1 Crib and Trench.
- Received additional excavation equipment to support backfill of 116-N-3 Crib, Trench, and bypass.
- Completed excavation at the 618-3 Burial Ground.
- Initiated remedial design work for 100-IU 2 and 100-IU-6 OUs.
- Completed remediation (batteries picked up and packaged for disposal) of 600-129 and 600-191 waste sites.
- Initiated design to incorporate 100-F Area confirmatory remaining sites that fail to meet RA Objectives (RAOs) into existing 100-F Area Burial Grounds and Remaining RTD Sites Design.
- Completed confirmatory sampling at ten 100-F Area remaining sites. Eleven additional sampling plans are being prepared.
- Prepared draft design to expand capacity for 100-B/C Area container transfer area to 160 containers.
- Met with RL, EPA, and Ecology and agreed to the approach for addressing river pipelines. EPA and Ecology stated they would consider extending the 7/31/05 TPA commitment date.
- EPA agreed to approve use of the 100 Area Remaining Sites sampling process for 300 Area Candidate Sites eliminating the costs to prepare a new SAP and accelerating the schedule to prepare the 300-7 and 300-9 Candidate Sites confirmatory sampling plans.

UPCOMING KEY ACTIVITIES:

- Conduct 116-C-3 Chemical Tank sampling.
- Initiate RPAS remediation of 100-C-9 Sewer Line.
- Complete 100-F BG and Remaining Sites sampling and design.
- Complete revegetation of ~130 acres at 100-F Area.
- Complete H Area geophysical surveys.
- Award remediation subcontract for 118-K-1.
- Complete backfill of 116-N-3 Crib, Trench, and bypass.

PERFORMANCE:



- **SV:** (\$431K); (12.1%). 100-B/C RPAS subcontractor mobilization behind schedule due to delay in bonding; 116-C-3 sampling delayed to ensure safe approach and required resources reprioritized to support 100-B/C SNF issues; partially offset by acceleration of 100-F Area sampling and 300-FF-2 remediation.
- **CV:** \$126K; 4.0%. Reduced excavation and sampling efforts at 300-FF-2 East Side remediation; 100-F Area Remaining Sites confirmatory sampling efficiencies.

EAC TRENDS:

Current Month: (\$195K)

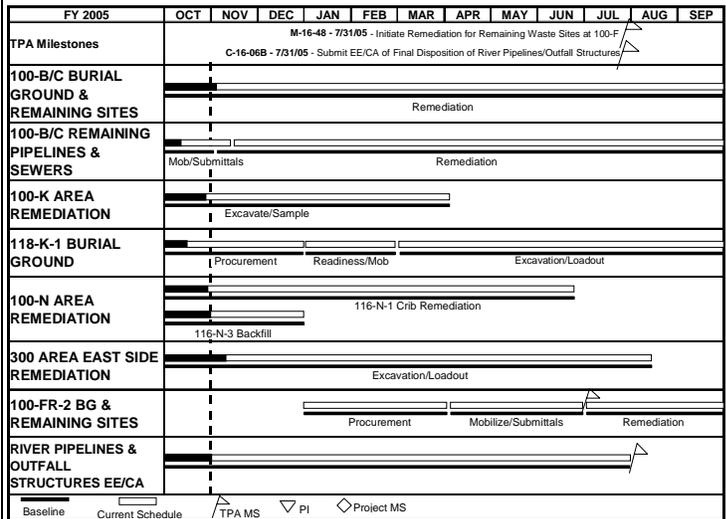
FYTD: (\$195K)

- Reduced number of samples and subcontractor support for 100-F Remaining Sites sampling. The overall RA October performance trend is overstated by ~\$150K, which will be corrected in November.

TPA MILESTONES:

- M-16-48, Initiate Remedial Actions for Remaining Waste Sites for 100-F Area (due 7/31/05); *forecast on schedule.*
- C-16-06B, Submit Engineering Evaluation of Final Disposition of River Pipelines and Outfall Structures to Regulators (due 7/31/05); *forecast on schedule.*

SUMMARY SCHEDULE:



ISSUES:

- Shortage of ERDF containers impacting RA schedules.
- Anticipate minimum of 6-month schedule impact on remediation and loadout of 118-B-1 and 118-C-1 subject to SNF. This may impact TPA Milestone M-16-45 (due 12/31/06).

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

October 2004 Monthly Report

SAFETY:

FYTD: 1 first aid; 1 lost restricted; 0 lost workday cases
Current Month: 1 first aid (strain); 1 lost restricted (rash)

Occurrences:

- Radiological contamination found in ERDF queue (RL-BHI-ERDF-2004-0009)

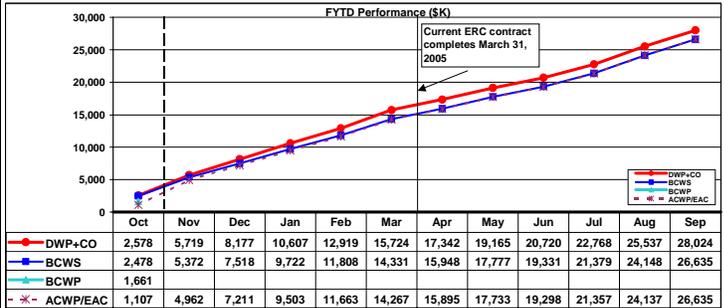
HIGHLIGHTS:

- Received 48,516 tons of waste at ERDF during October; 5,124,239 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Treated 520 drums of 183-H precipitated crystals.
- Poured two concrete slabs and mobilized equipment for construction of the encapsulation vaults for 218-W-4C waste. Management of Change (MOC) documentation for this new waste stream has been prepared and submitted to RL for approval.
- Completed testing of prototype IP-2 roll-off container.
- Continued electrical installation work in the crest pad buildings.
- Light poles were installed at the crest pad buildings at Cells 5/6.
- Continuing to assemble and install double containment piping and valves to support leachate management system. Acceptance tests are scheduled to begin the week of November 15.
- The FH K-Basins Canister Characterization Team has developed an action plan and schedule for resolving their characterization issues. Weekly status review meetings are scheduled between ERC, FH, EPA, and RL. The investigation is focused on the validation of characterization methodology for aluminum fuel canisters. Waste shipments are suspended pending resolution.
- Completed Waste Management Information System (WMIS) initial training and system testing. System components are being installed at ERDF. Procedure revisions to support WMIS implementation are drafted.

UPCOMING KEY ACTIVITIES:

- Complete construction of encapsulation vaults for disposing of low-level fraction of waste from FH's TRU Retrieval Project. Initial waste receipts are now scheduled for late November.
- Receive 30 IP-2 roll-off containers.
- ERDF scale upgrades and improvements to support WMIS implementation. Parallel testing of WMIS and Open Roads system in preparation for system activation by 12/17/04.
- The draft ERDF ROD Amendment authorizing additional Hanford waste for acceptance and disposal is in regulatory review and is scheduled for external review by December 15.

PERFORMANCE:

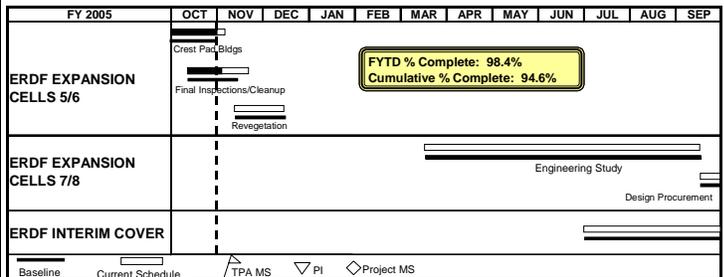


- SV:** (\$816K); (33.0%). Delay in tonnage shipments to ERDF; mercury treatment on hold; container and truck procurements.
- CV:** \$554K; 33.4%. Labor underruns in transportation and disposal.

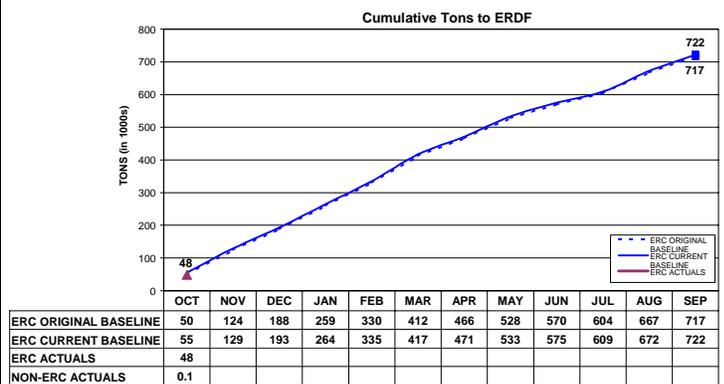
EAC TRENDS:

Current Month: \$0
FYTD: \$0

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

Justification for Continued Operations (JCO) is at RL for review. RL approval will allow release of the 67 containers for disposal at ERDF.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

October 2004 Monthly Report

SAFETY:

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

HIGHLIGHTS:

100-B/C Pilot:

- Held multiple meetings with the Wanapum Tribe to continue development of their exposure scenarios.
- Completed 50% of FY05 Round 2 sampling analysis and data evaluation.

100/300 Area:

- Conducted second of four DQO public workshops (Oct. 13).
- Revising Work Plan based on DQO meetings and public input.
- Completed 50% of Sampling and Analysis Instructions (SAI) for reconnaissance sampling.
- Reached agreement with EPA to provide peer review of human health scenarios.

Columbia River Component:

- Finalized project organization (staffing) and responsibilities.
- Completed revised decisional drafts of the Tribal, Trustee, and Public Communication Plans.
- Assembled Risk Integration Working Group and developed draft CERCLA/RCRA Risk Assessment Integration Strategy Plan and Schedule.

Closure Activities:

- Completed review and categorization of 100-B/C Orphan Sites evaluation data for WIDS sites and other potential CERCLA issues, e.g., surface debris such as transite (asbestos-containing material).
- Supported preparation of 8 new WIDS summaries for 100-B/C Orphan Sites as additional Remaining Waste Sites for 100-B/C Area.
- Issued draft WID Reclassification Form for rejection of 300-33 105-C Test Loop Burial Site.
- Provided Special Nuclear Material inventory historical information for 618-1 Burial Ground (analogous to 618-2 Burial Ground).
- Completed training and data/information management planning for 300-FF-1 Orphan Sites field walkdown scheduled to start in November.
- Held kickoff meeting for 300-FF-1 Remedial Action Report. The process of gathering the background, construction, and cost information for the report has begun.

UPCOMING KEY ACTIVITIES:

100-B/C Pilot:

- Develop an annotated outline for Risk Assessment Report.
- Develop methodology and draft screening values for risk assessment.

100/300 Area:

- Issue Rev. 1 of Work Plan to RL.
- Prepare draft DQO summary report.

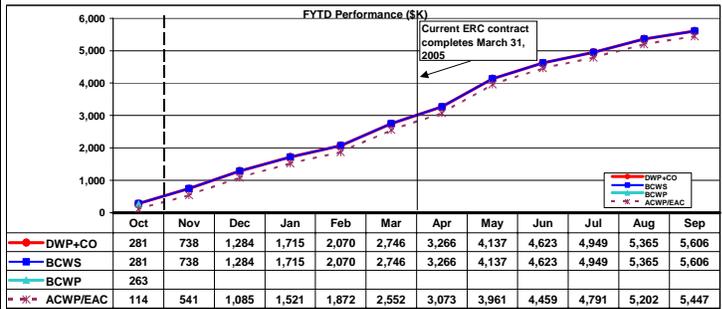
Columbia River Component:

- Develop subcontractors with regional universities and organizations to conduct existing data compilation/evaluation of Hanford Site contaminants released to the Columbia River.
- Hold Ecological Risk Assessment Modeling Workshop Nov. 8-9.

Closure Activities:

- Complete BCP for 100-B/C Orphan Site Evaluation Report that will be issued as a TPA secondary document.
- Start user requirements for Orphan Sites evaluation data and information management process.
- Develop contract for revegetation activities at 100-F and 100-N.

PERFORMANCE:



- **SV:** (\$18K); (6.4%). B/C Pilot Tribal risk narratives for analysis, risk assessment report risk calcs, and River Component work plan have each experienced resource or support impacts.
- **CV:** \$150K; 56.7%. Realized accrual reversals; missing work order accruals for B/C sample collection and 100/300 Area DQO.

EAC TRENDS:

Current Month: (\$159K)

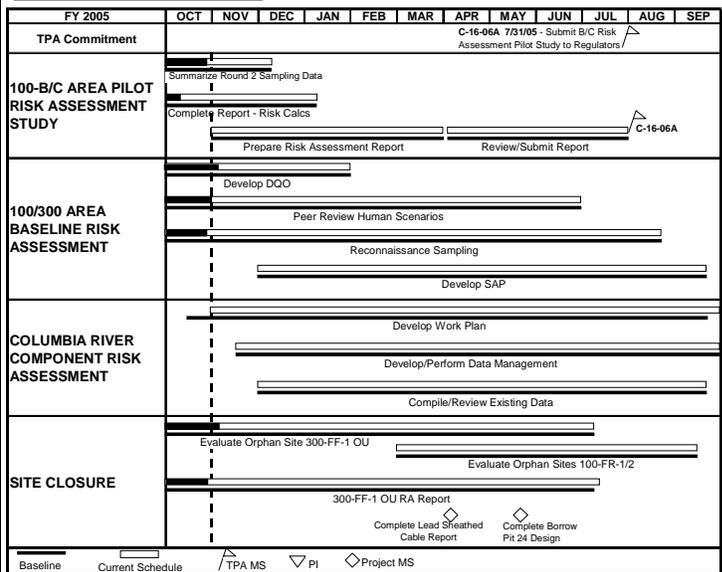
FYTD: (\$159K)

- FY04 accrual reversal.
- Miscellaneous tasks in-progress and complete required fewer resources to date than planned.

TPA MILESTONES:

C-16-06A, Submit B/C Risk Assessment Pilot Study to Regulators (due 07/31/05); *forecast on schedule*.

SUMMARY SCHEDULE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION MISSION SUPPORT

October 2004 Monthly Report

SAFETY:

FYTD: 0 first aids; 0 recordable-only; 0 lost workday cases

HIGHLIGHTS:

Safety and Health:

- RadCon continued the use of Advanced Characterization Systems (ACS) at ERC burial ground sites, including supporting the characterization of suspect nuclear fuel at 100-B/C.
- RadCon received an electronic dosimeter calibrator with source. This device allows reduced turnaround time for electronic dosimeter calibrations while reducing calibration costs.
- RadCon performed two scheduled self-assessments and one management-directed self-assessment. Issued one CAR (04-RC-11).
- Industrial Hygiene reviewed seven sampling packages, issued 17 result letters for reporting results of personal/area sampling, and finalized 8 sampling packages.
- Two Industrial Hygiene Techs were trained to 105310, "Jerome Mercury Vapor Analyzer" and received on-the-job evaluations.
- Field Safety established the Site Specific Health and Safety Plan (SSHASP) teams to begin work on the SSHASP revisions, which involves creating SSHASPs for new sites and the safety manual.
- Occupational Medicine is qualifying 80+ beryllium workers for upcoming work in the 300 Area.

Technical Services:

- Completed resolution of issues that were raised by RL and the regulators during the 2004 Annual Hanford Site Institutional Controls Assessment.
- Completed the RCRA Closure and Post-Closure Cost Estimate Report for treatment, storage, and disposal facility closure and/or post-closure activities.
- Compiled and submitted to FH the ERC Fuel Consumption Cost Estimate data.
- Completed evaluation of the WAC 246-247 (rad protection – air emissions) requirements for CERCLA actions.
- Submitted a plan and schedule to RL that addresses the new rule for removing cryptosporidium from drinking water. This rule applies to the 186-N Water Plant.
- Updated the Spill/Release Point-of-Contacts (POC) assignments to provide greater flexibility in meeting the demands of ERC accelerated work. The Spill/Release POC phone number is 372-9000.
- Provided sample and data management support to ERC projects – collected 389 samples, issued 5 sample authorization forms (SAF), issued 10 sample disposition records (SDR), and validated 1 data package. Quarterly SDR review revealed no negative trends in sampling or sample and data management process.

UPCOMING KEY ACTIVITIES:

Safety and Health:

- RL is conducting an ongoing surveillance of ERC's radiological area entry controls.

Technical Services:

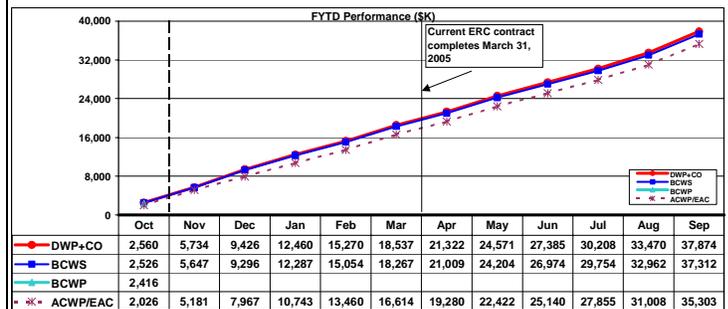
- Establish scope for the 2005 Annual Institutional Controls Assessment – November.
- Update chemical inventories for ERC managed facilities - November.

ASSESSMENTS:

FY 2005 ERC Assessment Data						
Assessments	Oct	Nov	Dec	Jan	Feb	Mar
Scheduled	17	26	14	16	15	21
Scheduled / Performed	14					
Past Due Completed	4					
Unscheduled / Performed	3					
Total Performed	21					

No significant findings during this reporting period.

PERFORMANCE:



- **SV:** (\$110K); (4.3%). Rough terrain forklift not received in October as planned. Receipt expected in November.
- **CV:** \$389K; 16.1%

Safety and Health:

- Time phasing of other Hanford contractor work orders and equipment purchases.

Other:

- October legacy retiree medical cost was not booked prior to October cutoff date.
- Pre-selected subcontractor corporate G&A and B&O taxes were not booked prior to October cutoff date.

EAC TRENDS:

Current Month: (\$2,009K)

FYTD: (\$2,009K)

- FY04 fee forecast reduction.
- Legacy retiree medical cost less than planned.

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION GENERAL SUPPORT

October 2004 Monthly Report

SAFETY:

FYTD: 0 first aids; 0 recordable-only; 0 lost workday cases

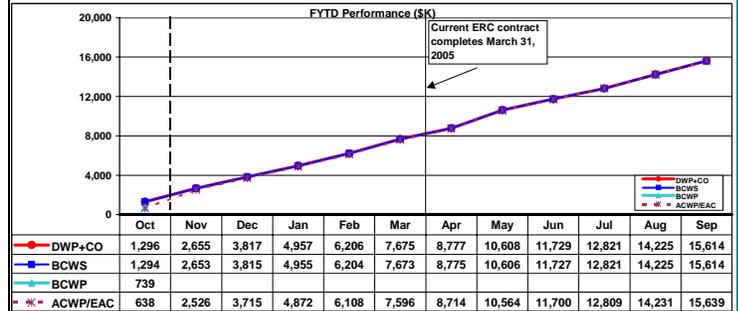
HIGHLIGHTS:

- ERC Badging successfully coordinated the badging of 397 people for the B Reactor 60th Anniversary tours that were held October 9. This involved direct coordination with the Hanford Site Badging Office to do an automatic upload of participant information to obtain specially designed tour badges for this event, thereby eliminating the need for manual input.
- Completed initial planning for the move of the server room.
- Supported the successful transition of facilities in the 300 Area from Fluor Hanford.
- Provided extensive system support to aid the Controller's office with fiscal year-end activities.
- Submitted FY02 final rates; FY04 closeout was successful; FY05 startup was successful.
- Implemented a new rate process for FY05 (no Operating Center, DD, Overhead, or G&A – billing; also discontinued Direct Distributable process).
- Began new 'direct' Codes of Account for FY05.
- Initiated processing CH2 non-ERC labor and labor corrections; this is consistent with Eberline.
- Conducted the DOE Quarterly audit of billed cost; there were no questions or findings.

UPCOMING KEY ACTIVITIES:

- Complete Brown Book Training in November and December, two months ahead of the DWP schedule.
- Complete WMIS acceptance testing and final field implementations of antenna, scale modifications, etc.
- Sign the lease to obtain Hanford Square 4 and start modifications for the move of the server room.
- Complete Cyber Security Program Plan development and new procedures.
- Schedule and conduct MS Office 2003 user coordination workshops.
- Provide support to project team's mobilization in the 300 Area, and receive the records for the facilities.
- Conduct specialized training for Industrial Hygiene Technicians for NIOSH 582 and an initial BBP/CPR/FA class for Field Support in November.
- Process HAMTC Alliance payments in November.
- Benefits Open Enrollment will run November 8-24, 2004.

PERFORMANCE:



- **SV:** (\$555K); (42.9%). Lag in computer equipment and software purchases.

- **CV:** \$101K; 13.7%

Facilities and Office Services:

- Time phasing of equipment and material costs.

EAC TRENDS:

Current Month: \$25K

FYTD: \$25K

- Eberline HR manager and safety engineer charging more to General Support than planned.

CONTRACT METRIC:

	Goal	FYTD	Oct 04
Small Business	50.0%	64.0%	64.0%
Disadvantaged	6.5%	1.7%	1.7%
Woman-Owned	2.5%	1.4%	1.4%
Veteran-Owned	0.02%	1.10%	1.10%
SD Veteran-Owned	0.02%	0.06%	0.06%
Hubzone Certified	0.02%	0.03%	0.03%

Total P-Cards for October: \$ 395,638 (297 actions)

Total FY05 Commitments: \$9,893,135

ISSUES:

- Staffing: attrition, cross-training, ROS support, contract support are creating morale, stress, continuity of operations, and cost issues.
- DCAA Audit Program will conduct audits previously postponed due to contract status. This will increase audit support requirements.
- Office space at Sigma 1.