

Environmental Restoration Contract

Monthly Performance Report

November 2004



Accelerating Cleanup ...



As the ER team's cleanup work moves from liquid waste sites to burial grounds, cautious work practices ensure worker safety. Nuclear fuel pieces are suspect in this burial ground near the Columbia River.



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor



CH2MHILL Hanford Inc.



ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

November 2004 Monthly Report

SAFETY:

As of November 30, 2004, the ERC worked approximately 100,100 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 90% injury-free workdays during FY05 and 97% injury-free workdays for November. Current Month: 1 lost restricted.

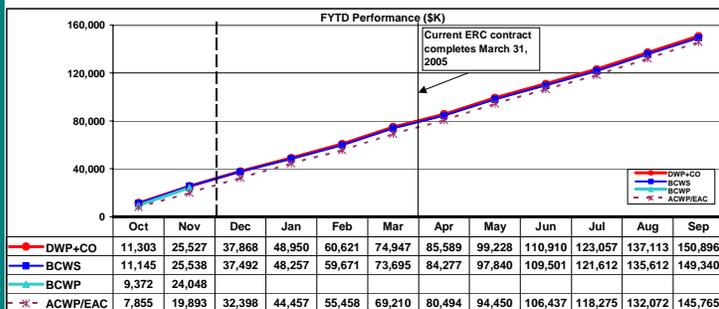
HIGHLIGHTS:

- Welded D Reactor entry door shut.
- Completed 1802-N Steam Pipe asbestos removal project.
- **Completed excavation/sorting/stockpiling at 128-B-2 and 128-B-3; completed loadout from 128-C-1.**
- Initiated 100-B/C Remaining Pipelines and Sewers (RPAS) remediation.
- Completed remediation of 116-KE-4 Retention Basin plumes.
- **Received RL and EPA approval of the 100 Area RDR Rev. 5 and 100 Area SAP Rev. 4.**
- Submitted a Justification for Continued Operation, outlining plans for disposal of 67 waste containers put on hold, for RL review.
- Successfully completed ERDF Cells 5/6 acceptance testing procedures.
- Conducted third of four DQO public workshops in support of 100/300 Area risk assessment.
- Developed subcontract with regional universities and organizations to conduct existing data compilation/evaluation of Hanford Site contaminants released to the Columbia River.
- Initiated 300-FF-1 orphan site field walkdown.
- ERC Training began scheduling Beryllium Assigned Worker Training for approximately 95 employees. This training will take place during November, December, and January.

UPCOMING KEY ACTIVITIES:

- Initiate asbestos removal in 313 building - January.
- Initiate H Reactor SSE construction - February.
- Complete backfill/regrading of 116-N-3 Crib, Trench, and pipelines.
- Award remediation subcontract for 118-K-1 Burial Ground.
- **Obtain additional IP-2 waste containers; lease trucks.**
- Complete field investigations / historical research for 300-FF-1 OU.
- Submit River Corridor Contract Transition Plan to RL.

PERFORMANCE:



- **SV:** (\$1,490K); (5.8%). ERDF delays in tonnage shipments; container/truck procurements, additional office space installation, and mercury treatment on hold; partially offset by 100-B/C Remaining Sites and 300-FF-2 remediation and 116-N-3 backfill ahead of schedule.

- **CV:** \$4,156K; 17.3%. 100-B/C RPAS subcontractor underruns; B/C Remaining Sites excavated/loadout volumes less than design footprint; reduced excavation and sampling efforts at 300-FF-2 East Side remediation; labor underruns in ERDF transportation and disposal; and reduced estimate of retiree medical costs.

EAC TRENDS:

Current Month: (\$1,229K)

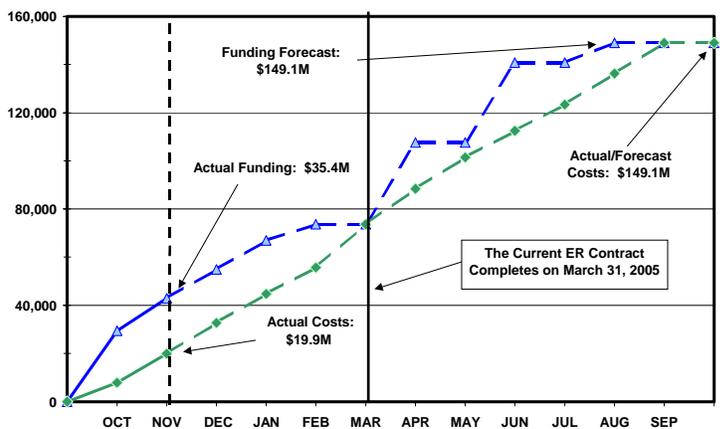
FYTD: (\$3,576K)

- RPAS subcontract performance better than DWP.
- 300 Area remediation staffing efficiencies.
- FY04 fee forecast reduction.
- Legacy retiree medical cost 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-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 03/02/05.*
- 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.
- Ecology indicated additional comments are forthcoming on 100 Area RDR and/or SAP documents, just approved by RL/EPA.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

November 2004 Monthly Report

SAFETY:

- FYTD: 2 first aids; 0 recordable-only; 1 lost restricted; 0 lost workday cases; 0 skin contaminations
- Current Month: N/A

HIGHLIGHTS:

H Reactor ISS:

- Completed loadout of demolition debris from Areas 1 and 5.
- Completed below-grade concrete pourbacks on 11/30/04.

D Reactor ISS:

- Welded entry door shut on 11/30/04. Letter to file is being prepared documenting transfer of D Reactor to S&M mode.

1802-N Steam Piping:

- Completed asbestos removal project on 11/18/04; demobilization completed.

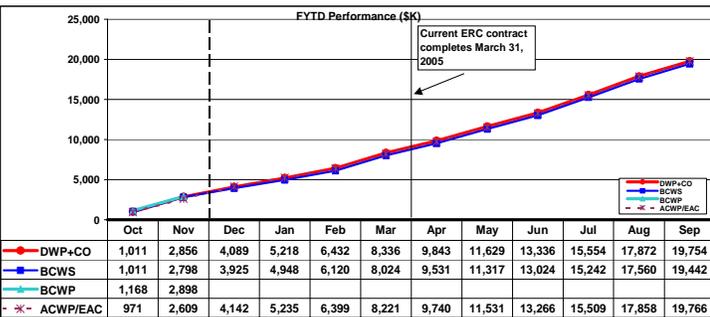
300 Area:

- Completed draft RAWP (including air monitoring plan) and issued for internal comment.
- Completed 313 building HASP and issued for comment.
- Completed DQO and draft SAP and issued for internal review.

UPCOMING KEY ACTIVITIES:

- Complete backfilling at H Reactor - December.
- Initiate mobilization/SSE construction at H Reactor - February.
- Complete Draft A EE/CA for final reactor disposition - February.
- Complete concrete sampling at 190-DR - January.
- Initiate isolation/removal of T-4 Tank at N Area - December.
- Issue Rev. 0 of 300 Area and K Area EE/CAs; also action memos for RL/regulator review - December.
- Issue draft of 300 Area RAWP and SAP for RL/regulator review - December.
- Initiate asbestos removal in 313 building - January.
- Complete all deactivation/pre-demolition actions at 313 building - February.

PERFORMANCE:



- SV:** \$100K; 3.6%. 190-DR demolition preparation and 300 Area facility characterization ahead of schedule;
- CV:** \$289K; 10%. Fewer resources utilized for 300 Area EE/CA; less 107-N sampling and resources required than planned; offset by additional resources required for H Reactor gas wing and pourback demolition/loadout.

EAC TRENDS:

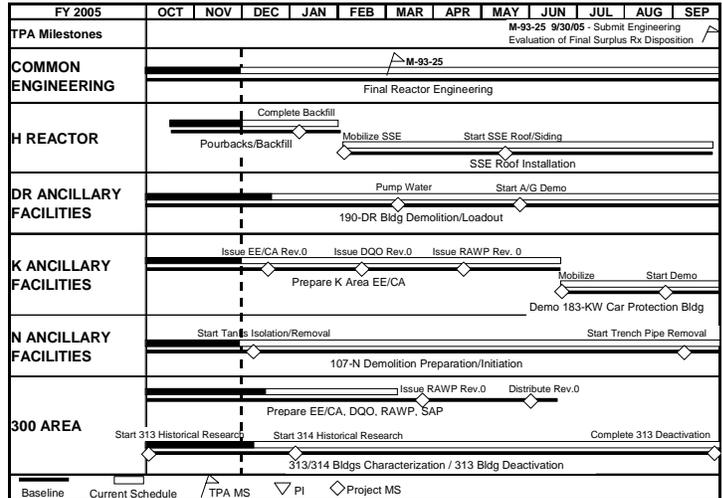
Current Month: \$333K
FYTD: \$324K

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

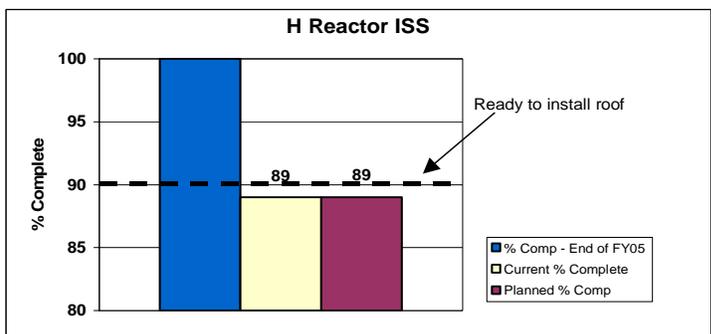
TPA MILESTONES:

- 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-93-25, Submit an Engineering Evaluation of Final Surplus Reactor Disposition to Regulators (due 09/30/05); **forecast 03/02/05.**
- 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

November 2004 Monthly Report

SAFETY:

FYTD: 1 first aid; 0 recordable; 0 lost workday cases
Current Month: N/A

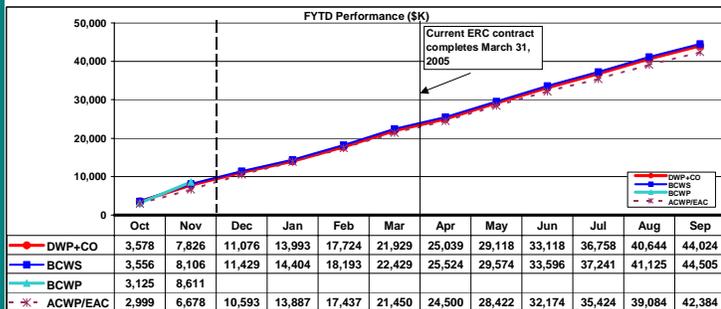
HIGHLIGHTS:

- Completed excavation and loadout from 128-C-1.
- Completed excavation/sorting/stockpiling at 128-B-2 and 128-B-3.
- Continued concrete demolition of underground coal vaults at 126-B-3.
- Completed loadout of the 100-B-16 power poles waste site.
- Completed expansion of the B/C area queue.
- Completed Remaining Pipelines and Sewers (RPAS) subcontractor mobilization, readiness assessment, and initiated remediation at 100-C-9.
- Completed sampling at 100-C-7.
- Completed remediation of 116-KE-4 Retention Basin plumes.
- Continued remediation of effluent pipelines and 116-K-2 Mile Long Trench.
- Continued excavation of the 116-N-1 Crib.
- Continued backfill of the 116-N-3 Crib, Trench, and pipelines.
- Continued loadout of contaminated materials at 618-3 Burial Ground.
- Initiated excavation of an additional 3 meters of waste from under the original 316-4 tank locations per RL and regulator request.
- Completed excavation of 300-FF-2 sites 600-47 and 300-18.
- Excavation is 90% complete at the 618-8 Burial Ground; initiated planning for additional pot holing.
- Revised 300 Area RDR and SAP incorporating a 300 Area Candidate Site sampling process; submitted for RL/EPA review. Anticipate approvals early December.
- Completed removal of overburden and overflow pipelines, installation of vertical risers, and backfill to support sampling of 116-C-3 Chemical Tanks; completed liquid level measurements and swipe sampling.
- Issued ten 100-F Area Remaining Sites work instructions and two RTD reports; sampled five remaining sites.
- Received RL and EPA approval of the 100 Area RDR, Rev. 5, and 100 Area SAP, Rev. 4.

UPCOMING KEY ACTIVITIES:

- Complete 100-B/C Remaining Sites design.
- Complete 116-C-3 Chemical Tank sampling.
- Complete 100-F BG and Remaining Sites design and sampling.
- Complete 100-H Area geophysical surveys.
- Initiate closeout sampling of 100-KW effluent pipelines, pipeline overburden piles, and 116-KE-4 Retention Basin.
- Initiate backfill of 116-K-1.
- Award remediation subcontract for 118-K-1 Burial Ground.
- Complete backfill/grading of 116-N-3 Crib, Trench, and pipelines.

PERFORMANCE:



- **SV:** \$505K; 6.2%. 300-FF-2 remediation, backfill of 116-N-3 Crib/Trench/Pipelines, and 100-B/C Remaining Sites remediation ahead of schedule; partially offset by schedule delays at 100-K due to container shortage, delays in 116-C-3 sampling to ensure safe approach/resources limitations, and schedule delay for 100-FR revegetation to align this effort with N Area revegetation in January for a more cost effective approach.
- **CV:** \$1,933K; 22.4%. 100-B/C RPAS subcontractor performance better than DWP; B/C Remaining Sites excavated/loadout volumes less than design footprint; BC/RPAS labor underruns - project not fully staffed; reduced excavation and sampling efforts at 300-FF-2 East Side remediation; and N Area backfill accrual underestimated.

EAC TRENDS:

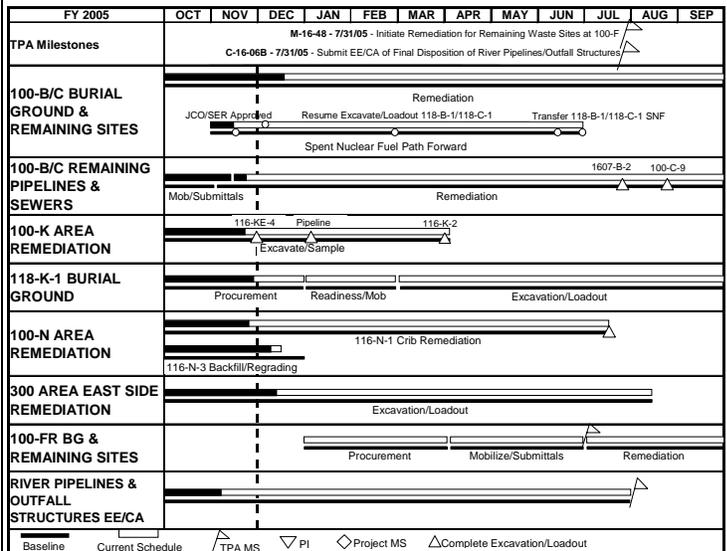
Current Month: (\$1,926K)
FYTD: (\$2,121K)

- RPAS subcontract performance forecasted better than DWP; subcontract and staffing efficiencies in 300 Area remediation; 116-C-3 field sampling and laboratory efficiencies.

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:

- Ecology indicated additional comments are forthcoming on 100 Area RDR and/or SAP documents, just approved by RL and EPA.

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

November 2004 Monthly Report

SAFETY:

FYTD: 1 first aid; 2 lost restricted; 0 lost workday cases
Current Month: 0 first aid; 1 lost restricted (fractured elbow)

Occurrences:

- Container hoisting cable snapped bracket off haul truck (RL-BHI-ERDF-2004-0010); Contaminated plastic found outside ERDF Cell CA (RL-BHI-ERDF-2004-0011); ERDF driver falls and fractures elbow (RL-BHI-ERDF-2004-0012)

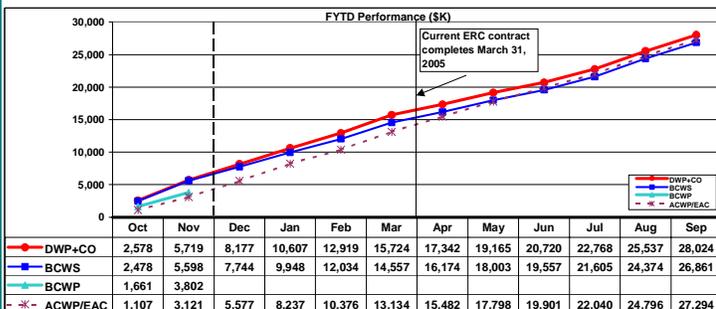
HIGHLIGHTS:

- Received 53,964 tons of waste at ERDF during November; 117,331 tons during FY05; 5,193,054 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Treated 240 drums of 183-H precipitated crystals in November.
- Continue to suspend all waste shipments from K-Basins SNF Project due to questions on characterization of fuel canisters.
- **Received first shipment of four new IP-2 roll-off containers at ERDF.**
- Submitted a Justification for Continued Operation, outlining plans for disposal of 67 waste containers put on hold, for RL review to address disposal of waste from 100-B/C Burial Grounds where suspect fuel elements were discovered.
- Successfully completed Acceptance Testing Procedures November 19, with no exceptions taken during any of the tests. RL and EPA reviewed and signed the ATP execution sheets November 22.
- Completed GPR activities to locate potential underground utilities or objects where excavation will occur for the 3-inch water line tie-in, as well as for the area that will be excavated in support of the container queue permanent lighting installation.
- Continuing backfill and compaction by the construction subcontractor and moisture density verification testing by the CQA subcontractor for the leachate line on the north embankment.
- Completing ERDF Cells 5/6 expansion closeout miscellaneous punch list activities as work progresses.

UPCOMING KEY ACTIVITIES:

- Install container queue permanent lighting and complete revegetation prior to demobilization.
- Receive, treat, and dispose of low-level fraction of waste from FH's TRU Retrieval Project. Initial waste receipts are now scheduled for mid-January.
- **Receive additional IP-2 roll-off containers, for a total of 30.**
- **Obtain leased trucks to augment the waste transportation fleet and meet high waste shipment demands of the coming month.**
- **The draft ERDF ROD Amendment authorizing additional Hanford waste for acceptance and disposal is in regulatory review and is scheduled for external review by late December.**

PERFORMANCE:



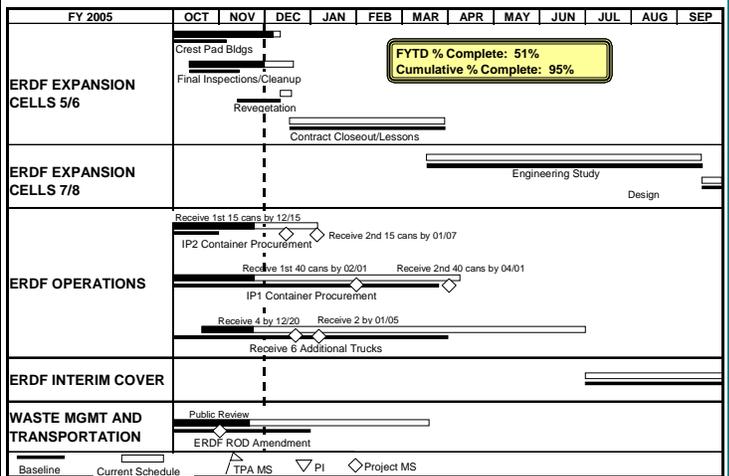
- **SV:** (\$1,796K); (32.1%). ERDF delays in tonnage shipments due to limited number of containers and resources, container and truck procurements, additional office space installation, and mercury treatment on hold at 100-B/C.
- **CV:** \$681K; 17.9%. Labor underruns in transportation and disposal.

EAC TRENDS:

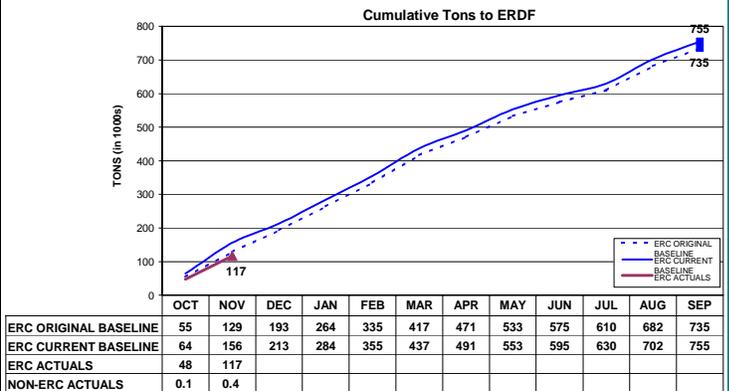
Current Month: \$433K
FYTD: \$433K

- Unsettled subcontractor claims for ERDF expansion.
- Increase in drivers for ERDF operations/transportation.

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

November 2004 Monthly Report

SAFETY:

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

HIGHLIGHTS:

100-B/C Pilot:

- Received all analyses from Round 2 sampling; currently compiling into a summary report.
- Completed an annotated outline and the methods section for 100-B/C Pilot Risk Assessment; posted on RCBRA web page.

100/300 Area:

- Conducted third of four DQO public workshops on Nov. 23.
- Revised Work Plan based on DQO meetings and public input; sent to RL for approval by Tri-Parties.

Columbia River Component:

- Held Ecological Risk Assessment Modeling Workshop Nov. 8-9. Presentations provided on RESRAD-BIOTA and ECEM models (introduction and applications).
- Submitted Communication Plans (Draft A) to RL, regulators, Tribes, Trustees, and HAB for review.
- Held Hanford Site Risk Assessment Integration Working Group monthly meeting. Compilation of existing scopes achieved through one-on-one meetings with contractor/project points-of-contact.
- Sent annotated outline for Risk Assessment Work Plan (internal draft) for staff review.
- Developed subcontracts with regional universities and organizations to conduct existing data compilation/evaluation of Hanford Site contaminants released to the Columbia River. Also, developed scope and task assignments for public workshop to develop guidelines for compilation/evaluation of existing data.

Closure Activities:

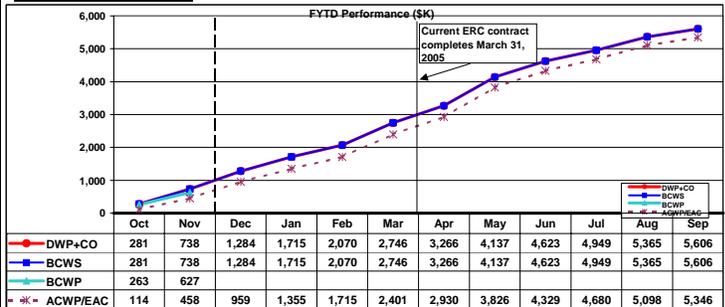
- Issued WIDS Reclassification Forms 2004-132 and 2004-099 for rejection of 600-33, 105-C Test Loop Burial Site and 118-B-7 Burial Ground. EPA approvals are scheduled for next UMM on 12/9/04.
- Completed reviews of Remaining Sites Verification Packages for 100-F-9, 100-F-26:3, and 100-F-26:6.
- Issued final WIDS inputs for 100-B/C Area Orphan Sites evaluation for a total of 9 additional (and 1 modification) new WIDS sites. The one surface debris waste site includes 140 locations of potential hazardous/dangerous debris, mostly transite/asbestos, some railroad ties, and a few sheets of lead.
- Determined BCP for preparation of a 100-B/C Orphan Site Evaluation Report as a TPA Secondary Document was not required. 100-B/C Orphan Site evaluation results are documented in WIDS, field logbooks, and electronic files, including maps, databases, photo files, and general project files.
- Issued Orphan Sites evaluation desk instructions on 11/8/04; 300-FF-1 field walkdown started on schedule on 11/9/04.

UPCOMING KEY ACTIVITIES:

- Complete draft B/C data summary report 12/17/04.
- Complete 100/300 Area sample analysis instructions (SAIs) (two documents).
- Prepare for 4th DQO meeting 1/6/05.
- Complete draft DQO Summary Report.
- Hold workshop to develop guidelines for compilation/evaluation of existing data on Hanford Site contaminants released to the Columbia River (12/13-14/05).
- Present 100-B/C Orphan Sites process and results at 100/300 Area UMM on 12/9/04 (per regulator request).
- Complete field investigations and historical research for 300-FF-1 OU.
- Complete WIDS inputs for 100-B/C Area Orphan Sites evaluation.

- Prepare WIDS drafts for 300-FF-1 orphan waste sites.
- Start user requirements for Orphan Sites evaluation data/information management process.

PERFORMANCE:



- SV:** (\$111K); (15.0%). B/C Pilot risk assessment report, 100/300 Area reconnaissance sampling SAI, and 300-FF-1 OU RA report have not had the required resources available.
- CV:** \$169K; 27.0%. 100/300 Area peer review of human scenarios, DQO preparation, and review of site closure documents have required fewer resources than planned.

EAC TRENDS:

Current Month: (\$101K)

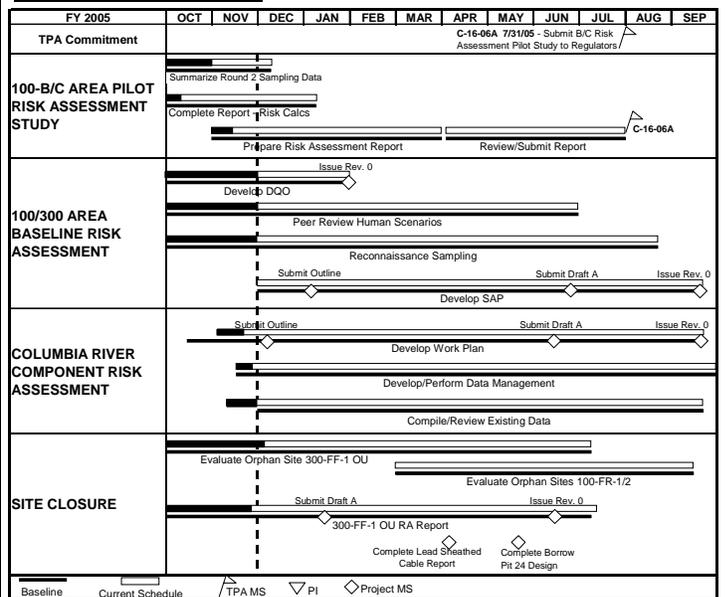
FYTD: (\$260K)

- 100/300 Area peer review of human scenarios, DQO preparation, and review of site closure documents have required fewer resources than originally 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**

November 2004 Monthly Report

SAFETY:

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

HIGHLIGHTS:

Safety and Health:

- BHI was awarded the Voluntary Protection Program Merit Flag from DOE.
- Verified HEPA filters provide adequate worker protection against beryllium hazards.
- Formed a training advisory group to support modification of the Industrial Hygiene Technician training program.
- Completed flowdown of ISMS evaluation forms to sub-tier contractors and vendors.
- Revised the ERC Medical Case Management Program.
- Facilitated multiple root cause analyses to address an ORPS "R" report.

Technical Services:

- Submitted input to FH for the CY 2005 Asbestos Renovation Notice of Intent.
- Prepared the RCRA Permit modification for the 300 Area Waste Acid Treatment System to reflect BHI as the unit co-operator.
- Completed expedited procurement of beryllium wipes and air filter samples for Industrial Hygiene support to projects.
- Provided sample and data management support to ERC Projects – collected 205 samples, issued 5 sample authorization forms (SAF), issued 7 sample disposition records (SDR), and validated 2 data packages.

Business Services:

- Completed initial revisions to the ERC Corrective Action Request and Root Cause Analysis procedures.
- Completed a regulatory review of records submitted to ERC from Fluor Hanford, Inc. (FH) for recently transferred 300 Area facilities.
- Began tracking ERC commitments to RL relating to heavy equipment events and provided guidance for conducting a self assessment of the oversight process for subcontractors.
- Entered 3,378 records into DARTS and scanned 3,386 records into DOCS Open.
- Processed 41 procedure updates and 7 revision orders mainly due to regulatory changes.
- Processed 42 boxes of 300 Area records transferred to ERC from FH.

Other:

- Supported additional workscope that resulted from the recently transferred 300 Area facilities.

UPCOMING KEY ACTIVITIES:

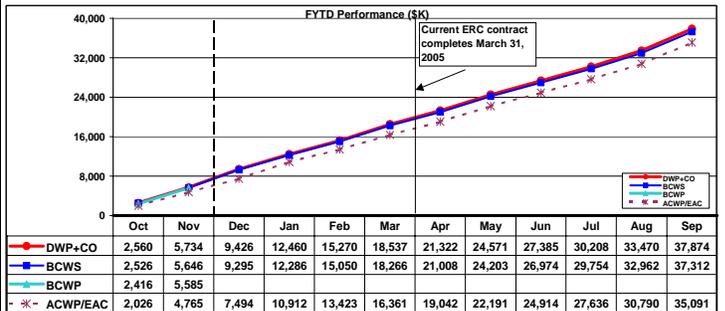
- WSCF laboratory audit – December.
- Submit Emergency Planning and Community Right to Know Act Tier II Report – December.
- Prepare the final Corrective Action Request and Root Cause Analysis procedures – December.
- Prepare summary report of BHI Oversight Assessments for submission to RL – December.
- Complete the 2004 Annual Records Inventory and Dispositions campaign – December.
- Issue Environmental Management Gap Analysis – January 2005.

ASSESSMENTS:

FY 2005 ERC Assessment Data						
Assessments	Oct	Nov	Dec	Jan	Feb	Mar
Scheduled	17	24	21	27	20	27
Scheduled / Performed	14	18				
Past Due Completed	4	0				
Unscheduled / Performed	3	5				
Total Performed	21	23				

No significant findings during this reporting period.

PERFORMANCE:



- **SV:** (\$61K); (1.1%). Several Waste Management and Transportation functional activities postponed due to more direct project support.

- **CV:** \$820K; 14.7%

Safety and Health:

- Understaffed by four positions (one IH professional, one safety engineer, one task lead, and one administrative staff). Time phasing of other Hanford Site contractor work orders and equipment purchases.

Heavy Equipment:

- Unpaid purchases of material for equipment repairs and maintenance.

Other:

- Received reduced estimate of retiree medical cost portion of total Site medical from the Site plan administrator.
- Lag in pre-selected subcontractor fee, corporate G&A and B&O taxes.

EAC TRENDS:

Current Month: (\$212K)

FYTD: (\$2,221K)

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

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION GENERAL SUPPORT

November 2004 Monthly Report

SAFETY:

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

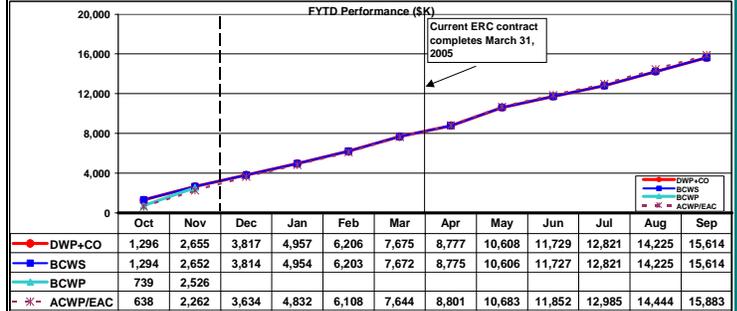
HIGHLIGHTS:

- Server Room will remain in 3350 until June 2005.
- Fire system main line break at 100-N was isolated; repairs were scheduled.
- Continued flat-panel monitor deployment.
- Successfully deployed print server at ERDF for improved band width.
- Completed third-party review of the ERC Cyber Security Program; received positive feedback.
- Distributed approximately 250 HAMTC Alliance Sharing for Success checks on November 23.
- Conducted the Annual Benefits Open Enrollment November 8-24.
- ERC Training began the process of scheduling Beryllium Assigned Worker Training for approximately 95 employees. This training will take place during November, December, and January.

UPCOMING KEY ACTIVITIES:

- Provide River Corridor Contract Transition Plan to RL.
- Assist Facilities Decommissioning Project in obtaining occupancy of the 3746 facility in the 300 Area.
- Complete facilities winterization self-assessment.
- Begin network printer refresh project.
- Finalize Waste Management Information System (WMIS) acceptance testing and final field implementation.
- Complete internal Cyber Security Program Plan review and submit to RL.
- Provide charging compliance training in January 2005.
- Provide Manager/Supervisor Safe & Drug Free Training in December and January.

PERFORMANCE:



- **SV:** (\$126K); (4.8%). Lag in computer equipment purchases and postponement of conference room upgrade project.
- **CV:** \$264K; 10.5%
Facilities and Office Services:
– Time phasing of equipment and material costs.

EAC TRENDS:

Current Month: \$244K

FYTD: \$269K

- Fixed negotiated rate applied to non-ERC work lower than planned.

CONTRACT METRIC:

	Goal	FYTD	Nov 04
Small Business	50.0%	64.2%	59.5%
Disadvantaged	6.5%	1.7%	1.4%
Woman-Owned	2.5%	3.0%	15.0%
Veteran-Owned	0.02%	1.2%	1.8%
SD Veteran-Owned	0.02%	0.10%	0.36%
Hubzone Certified	0.05%	0.22%	1.8%

Total P-Cards for November: \$ 258,079 (273 actions)

Total November Commitments: \$ 1,338,538

Total FY05 Commitments: \$11,231,693

ISSUES:

None for this reporting period.