

Environmental Restoration Contract *Monthly Performance Report*

January 2005



Accelerating Cleanup ...



Remediation of the 100-K Area Mile Long Trench is 75% complete. To date, over 2000 tons of contaminated material have been removed and disposed of in ERDF. 300 billion liters of reactor effluent water were diverted to this trench.



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor



CH2MHILL Hanford Inc.



ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

January 2005 Monthly Report

SAFETY:

As of January 31, 2005, the ERC worked approximately 298,800 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 91% injury-free workdays during FY05 and 87% injury-free workdays for January 2005.

FYTD: 9 first aids; 3 lost restricted

Current Month: 3 first aids; 1 lost restricted

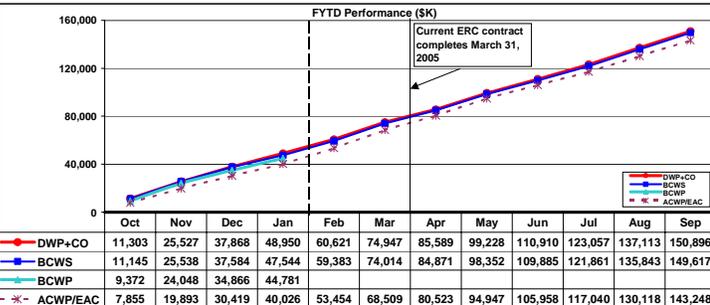
HIGHLIGHTS:

- Completed H Reactor backfill.
- Started 190-DR valve house demolition.
- Commenced asbestos removal in 313 Building.
- Commenced characterization of 314 Building.
- Continued 100-B/C Remaining Pipelines and Sewers (RPAS) remediation activities.
- **Completed backfill of 116-K-1 Crib over 4 months ahead of schedule.**
- Awarded the 118-K-1 Burial Ground remediation subcontract.
- Completed sampling of 100-F Area Remaining Sites.
- Began revegetation of the 116-N-3 Crib, Trench, and pipelines.
- Transitioned the new ERDF Cells 5/6 to the disposal subcontractor for operations.
- Commenced transporting waste from 100-B/C Area to ERDF Cell 6 using dump trucks with trailers.
- Conducted the last of four 100/300 Area DQO public meetings.
- Conducted Hanford Site Risk Assessment Integration Strategy and Schedule workshop; developed outline for the strategy document.
- Transmitted final 100-B/C Area Orphan Sites letter report to RL.

UPCOMING KEY ACTIVITIES:

- Award 184-N Power House asbestos removal contract.
- **Commence demolition of 313 Building - March.**
- Restart remediation at 118-B-1 and 118-C-1 Burial Grounds.
- Initiate 100-D Area Burial Grounds and Remaining Sites remedial design.
- Issue RFP for 100-F Burial Grounds and Remaining Sites remediation.
- Submit the "Proposed Plan for an Amendment to ERDF ROD" to RL.
- Conduct conductivity surveys in near-shore zone of river where groundwater plumes emerge.
- Complete evaluation of past deposition of contaminants from reactor stacks on lands away from operations areas.

PERFORMANCE:



- **SV:** (\$2,763K); (5.8%). ERDF delays in tonnage shipments; delays in 118-B-1 and 118-C-1 Burial Grounds due to work suspension; delays in RPAS remediation at 100-B-14 due to difficult excavation of 100-C-7 and 100-C-9; 100-FR revegetation delayed to combine with 100-N; partially offset by 300-FF-2 remediation acceleration.

- **CV:** \$4,755K; 10.6%. 100-B/C RPAS labor and subcontractor underruns; reduced excavation and sampling efforts at 300-FF-2 East Side remediation; 116-C-3 analytical and F Area sampling efficiencies; labor underruns in ERDF transportation/disposal and direct project support; FY04 final fee determination less than anticipated, and reduced estimate of retiree medical costs.

EAC TRENDS:

Current Month: (\$972K)

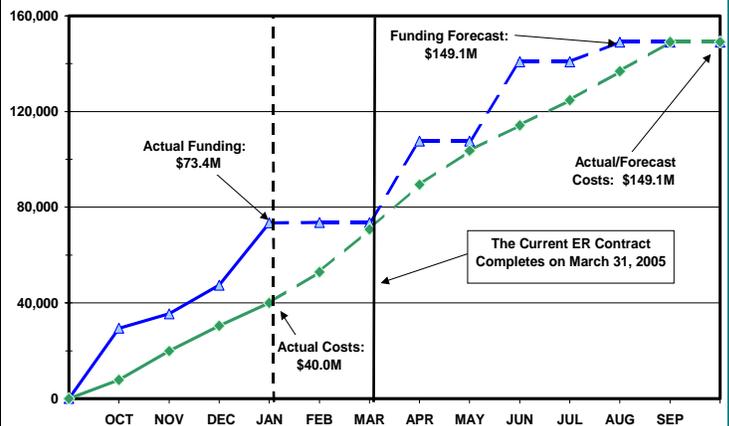
FYTD: (\$6,368K)

- RPAS/118-K-1 subcontract performance forecast better than DWP.
- 116-C-3 field sampling and laboratory efficiencies.
- 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. ESD will be prepared.*
- 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 03/15/05.*
- M-93-18, Complete H Reactor ISS (due 12/31/05); *forecast 9/30/05.*

FUNDING:



PERFORMANCE INCENTIVES:

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

January 2005 Monthly Report

SAFETY:

- FYTD: 4 first aids; 0 recordable-only; 1 lost restricted; 0 lost workday cases; 0 skin contaminations
- Current Month: 1 first aid (strain)

HIGHLIGHTS:

H Reactor ISS:

- Completed backfill of Areas 1, 4, and 5.

190-DR:

- Started 190-DR demolition of the valve houses.
- Removed remainder of D Area decon soil stockpile.

100-N Area:

- Completed cutting concrete wall for removal of 107-N Tank T-4.

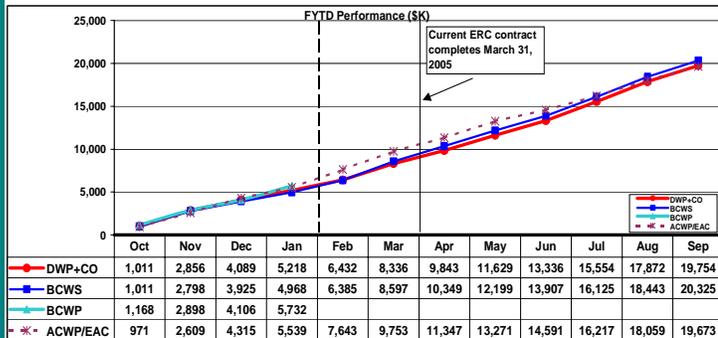
300 Area:

- Commenced asbestos removal in 313 Building.
- Completed beryllium sampling of overhead portion of 313 (north end).
- Approved BCP to proceed with demolition of 313 Building.
- Commenced characterization of 314 Building.

UPCOMING KEY ACTIVITIES:

- Complete BHI review of H Reactor SSE roof design shop drawings; mobilize SSE subcontractor.
- Continue 190-DR demolition.
- Backfill D Reactor south decon area.
- Award 184-N Power House asbestos removal contract.
- Continue removal of 107-N Tank T-4.
- RL/regulator approval of 300 Area RAWP and SAP.
- Complete asbestos/hazardous waste removal in 313 Building.
- Commence demolition of 313 Building (March).

PERFORMANCE:



- SV:** \$764K; 15.4%. 190-DR demolition preparation and 300 Area facility characterization/deactivation ahead of schedule; partially offset by 107-N sampling delays due to concerns of gaining building access.
- CV:** \$193K; 3.4%. 300 Area characterization acceleration; fewer S&M resources required than planned; partially offset by additional resources required for H Reactor gas wing and pourback demolition/loadout, and additional thermal analysis required; settlement of D Reactor SSE FY04 claim.

EAC TRENDS:

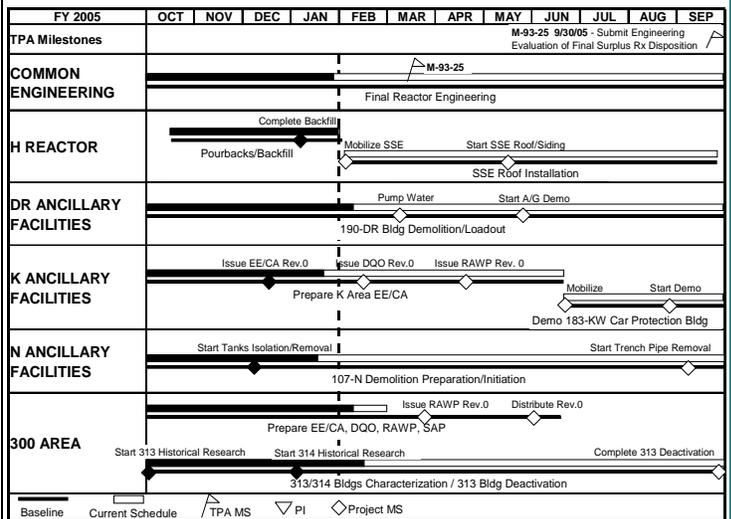
Current Month: (\$500K)
FYTD: (\$652K)

- 300 Area EE/CA resources and mob/deactivation less than planned.
- H Reactor gas wing demolition/loadout resources more than planned.
- Settlement of D Reactor SSE FY04 claim.

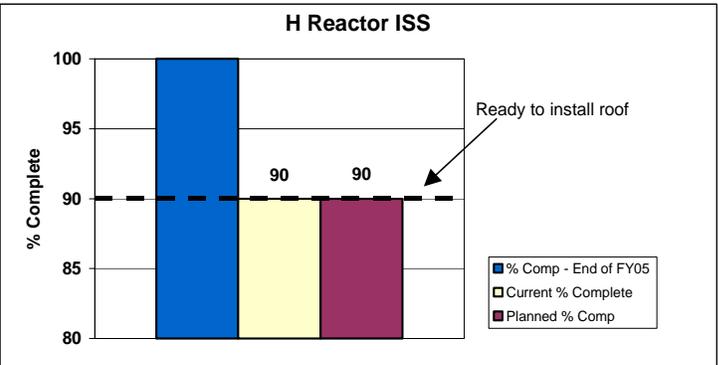
TPA MILESTONES:

- 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 03/15/05.
- M-93-18, Complete H Reactor ISS (due 12/31/05); forecast 9/30/05.

SUMMARY SCHEDULE:



ISS METRIC:



ISSUES:

313 Building sampling results indicate higher levels of beryllium than anticipated.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

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SAFETY:

FYTD: 3 first aid; 0 recordable; 0 lost workday cases
Current Month: 2 first aids (contusion; bruise)

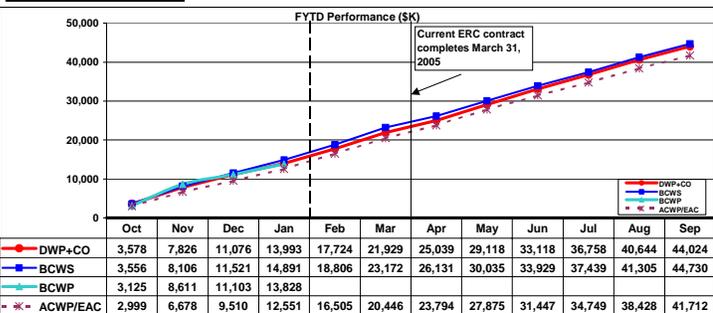
HIGHLIGHTS:

- Submitted draft Audible Safety Analysis and Final Hazard Classification for 118-B-1 and 118-C-1 to RL.
- Conducted dry runs to support pup-and-truck waste transportation efforts, and initiated waste loadout to ERDF from 128-B-2 and 128-B-3.
- Completed loadout at B/C Remaining Pipelines and Sewers (RPAS) 100-C-9 North site.
- Initiated excavation/stockpiling of RPAS 100-B-1 site.
- **Initiated loadout of B/C RPAS site 1607-B-2.**
- Continued overburden removal at B/C RPAS sites 100-C-9 South and 100-C-7.
- **Initiated overburden removal at B/C RPAS site 100-B-14.**
- **Completed backfill of 116-K-1 Crib over 4 months ahead of schedule.**
- Completed closeout sampling at the 116-KE-4 Retention Basin.
- Continued remediation of the 100-K effluent pipelines and 116-K-2 Mile Long Trench.
- Awarded the 118-K-1 Burial Ground remediation subcontract.
- Completed seeding and continued sagebrush planting at 100-F.
- Continued excavation of the 116-N-1 Crib.
- Began revegetation of the 116-N-3 Crib, Trench, and pipelines.
- **Continued loadout of 300-8 Aluminum Shavings Area and the 600-47 Surface Contamination site.**
- Continuing to establish plans for a "path forward" to start up excavation at 618-2, -3, and -8 Burial Grounds since the Pu (alpha) contamination was found at the 618-2 Burial Ground on 12/14/04.
- Completed sampling of 100-F Area Remaining Sites.
- **Completed draft Work Instruction for 300-7 candidate waste site.**
- **Initiated sampling at 600-202 and 600-205 waste sites, the last two 100-IU OU confirmatory sites requiring sampling.**

UPCOMING KEY ACTIVITIES:

- Restart remediation activities at 118-B-1 and 118-C-1 Burial Grounds.
- Complete mobilization/readiness for 118-K-1 Burial Ground remediation.
- Complete removal of the boulder layer on the 116-N-1 Crib.
- Issue RFP for 100-F Burial Grounds and Remaining Sites remediation.
- Initiate 100-D Area Burial Grounds and Remaining Sites remedial design.
- Initiate preparation of River Pipelines ESD early February.
- Complete Horseshoe Landfill options estimate; prepare and transmit recommendation to RL in February.
- Complete loadout of 300-8, 600-259, and 316-4 sites in February.
- Perform RadCon surveys of suspect material in sorting/staging area and 618-2 excavation area; place selected suspect debris in containers.
- Initiate transition of 28 waste sites in 300 Area in early February.

PERFORMANCE:



- **SV:** (\$1,063K); (7.1%). Delays in 118-B-1 and 118-C-1 Burial Grounds due to suspension of work; delays in RPAS remediation at 100-B-14 due to difficult excavation at 100-C-7 and 100-C-9; 100-FR revegetation delayed to combine with 100-N revegetation to optimize resources; negative SV partially offset by 300-FR-2 remediation acceleration due to excavation and sampling efficiencies.
- **CV:** \$1,277K; 9.2%. 100-B/C RPAS subcontract mobilization performance better than DWP; BC/RPAS labor underruns - project not fully staffed; reduced excavation and sampling efforts at 300-FR-2 East Side remediation; 116-C-3 analytical and F Area sampling efficiencies.

EAC TRENDS:

Current Month: (\$933K)

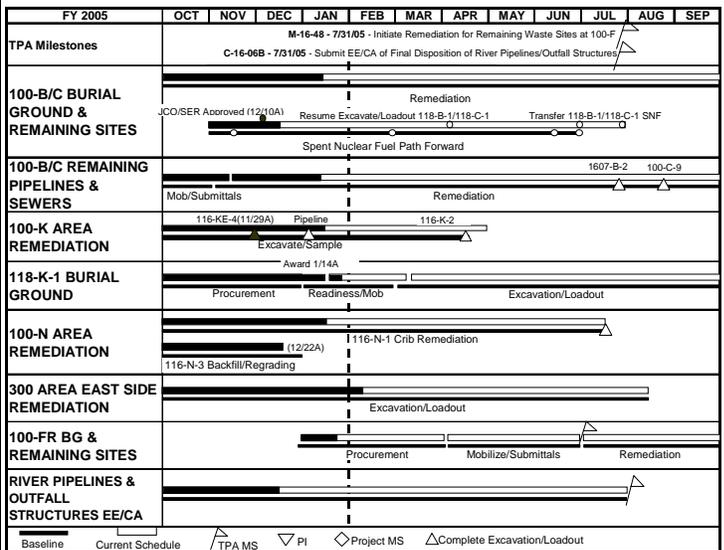
FYTD: (\$3,018K)

- RPAS and 118-K-1 subcontract performance forecasted better than DWP; subcontract and staffing efficiencies in 300 Area remediation; 116-C-3 field sampling and laboratory efficiencies; F Area sampling 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.* Tri-Parties have agreed to an alternate path forward to document river pipeline decision; an Explanation of Significant Difference (ESD) will be prepared.

SUMMARY SCHEDULE:



ISSUES:

- Horseshoe Landfill path forward.
- 618-2 path forward.

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

January 2005 Monthly Report

SAFETY:

FYTD: 2 first aid; 3 lost restricted; 0 lost workday cases
Current Month: 1 lost restricted (strain)

Occurrence:

- ERDF laborer injured hand (RL-BHI-ERDF-2005-0001)

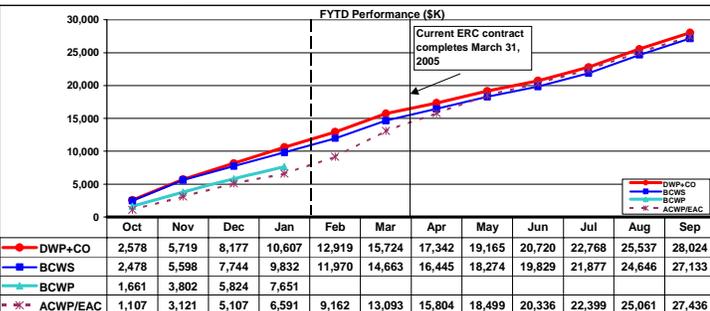
HIGHLIGHTS:

- Received 57,404 tons of waste at ERDF during January; 229,941 tons during FY05; 5,305,664 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Treated 320 drums of 183-H precipitated crystals in January.
- Suspended operations on 4 separate days due to inclement weather.
- Completed all preparatory work for construction of the 218-W-4C waste encapsulation vaults. RL has requested additional information for review of the Management of Change (MOC) documentation for this new waste stream.
- Continued to suspend all waste shipments from K-Basins SNF Project. Process to evaluate methodology to characterize canisters is underway. Resolution expected by February end as scheduled.
- Received a total of 15 new IP-2 roll-off containers and 40 new IP-1 containers at ERDF.
- Added six leased trucks to the waste transport fleet to meet current demands.
- Transitioned the new ERDF Cells 5/6 to the disposal subcontractor for operations. Connected Cell 6 to the leachate collection tanks.
- Commenced transporting waste from 100-B/C Area to ERDF Cell 6 using dump trucks with trailers.
- Issued advance 30-day public notice to seek comments on the "Proposed Plan for an Amendment to the ERDF Record of Decision (ROD)".

UPCOMING KEY ACTIVITIES:

- Receive, treat, and dispose of low-level fraction of waste from FH's TRU Retrieval Project.
- Receive additional IP-2 roll-off containers (15 of 30 remaining).
- Receive additional IP-1 roll-off containers (40 of 80 remaining).
- Submit the "Proposed Plan for an Amendment to ERDF ROD" to RL and present to the Hanford Advisory Board in March.

PERFORMANCE:



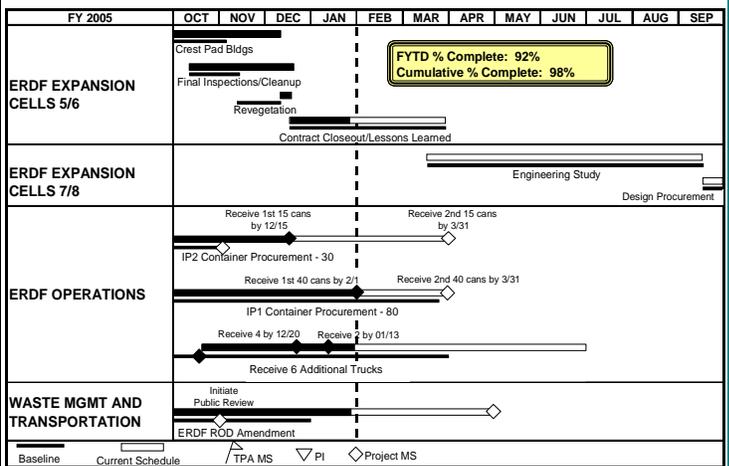
- SV:** (\$2,181K); (22.2%). ERDF delays in tonnage shipments; additional office space installation; and waste treatment on hold at 100-B/C.
- CV:** \$1,060K; 13.9%. Labor underruns in transportation/disposal and direct project support.

EAC TRENDS:

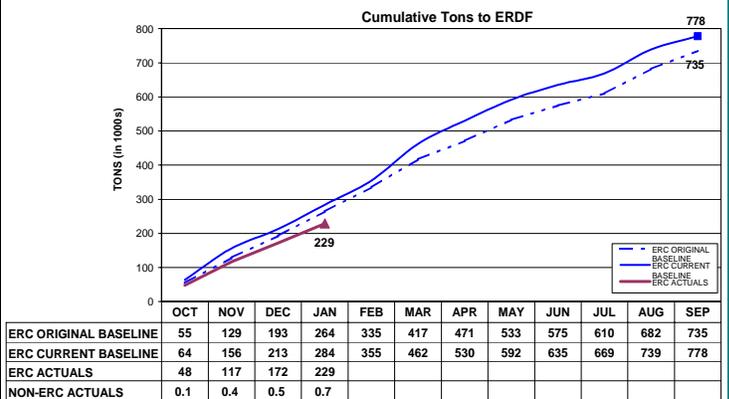
Current Month: \$69K
FYTD: \$303K

- 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

January 2005 Monthly Report

SAFETY:

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

HIGHLIGHTS:

100-B/C Pilot:

- Continuing data screening and exposure assessment for B/C Pilot Risk Assessment.
- Performing B/C Pilot Draft Data Summary Report revisions and comment resolution.

100/300 Area:

- Sent Sampling and Analysis Instructions (SAI) for Tribal plant sampling to RL, regulators, and Tribes.
- Conducted the last of four DQO public meetings on January 6.
- Completed DQO Summary Report (workbook).
- Completed RL review of three human-use scenarios (Rural Residential, Industrial Worker, and National Monumental Refugee Worker) and submitted to EPA Region 10 for a peer review.

Columbia River Component:

- Conducted Hanford Site Risk Assessment Integration Strategy and Schedule Workshop on January 19-20. Attendees included RL, ORP, ERC, CH2M HILL, PNNL, FH and other site contractor representatives. The working group compiled existing scopes and schedules within a unified format and developed the outline for the *Hanford Site Risk Assessment Integration Strategy* document.
- Conducted second Existing Data Compilation and Evaluation Guidance Workshop on January 24-25. This workshop continued development, in a public forum, of the methods that will be used to analyze and validate existing data on Hanford Site contaminant release to the Columbia River.
- Initiated writing draft chapters of the *Columbia River Component Risk Analysis Work Plan*.

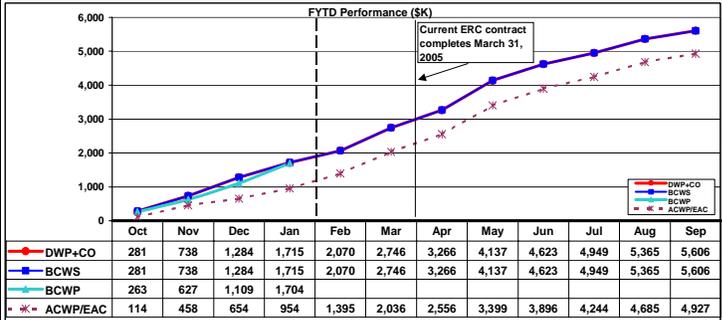
Closure Activities:

- Distributed the draft 300-FF-1 Remedial Action Report to ERC and RL for review and comment.
- Transmitted the final 100 B/C Area Orphan Site's letter report with attachments to RL and the Administrative Record on January 26.
- Provided draft report to RL for 600-235 Lead Sheathed Cable site.
- Prepared ArcView maps for 100 B/C Remaining Pipeline and Sewer (RPAS) project, 100-K DQO task, and 105-D Reactor decontamination pads waste sites.
- Continued work for the preparation of four new WIDS waste site summaries based on the results of the 300-FF-1 Orphan Sites evaluation. The additional waste sites include a small landfill, a septic system, remaining pipelines within 300-FF-1, and a surface debris site for potential asbestos containing material (ACM).
- Provided technical support to 300 Area RA project and a safety investigation team for anomalous waste materials found in 618-2 Burial Ground. A root cause analysis is scheduled to start on 1/25/05.

UPCOMING KEY ACTIVITIES:

- Transmit Draft B/C Pilot Data Summary Report to RL in February.
- Conduct field trip for Trustees at areas proposed for FY06 sampling.
- Conduct conductivity surveys in near-shore zone of river where groundwater plumes emerge.
- Complete evaluation of past deposition of contaminants from reactor stacks on lands away from operations areas.
- Working meetings with graduate students from OSU, UW, and WSU to guide initial compilation/evaluation of existing data on Hanford Site contaminants released to the Columbia River.
- Provide 100 B/C Area Orphan Site's presentation to Ecology.
- Complete updates for the mapping and marking (TSD) maps for 1301-N Crib and maps for 100-F Area.

PERFORMANCE:



- SV:** (\$11K); (0.6%). N/A
- CV:** \$750K; 44.0%. Efficiencies realized in performing peer review of human scenarios, DQO development, and reconnaissance sampling. Positive variance overstated by lack of accrual for universities performing work on compilation/evaluation of existing data on Hanford Site contaminants released to the Columbia River.

EAC TRENDS:

Current Month: (\$179K)

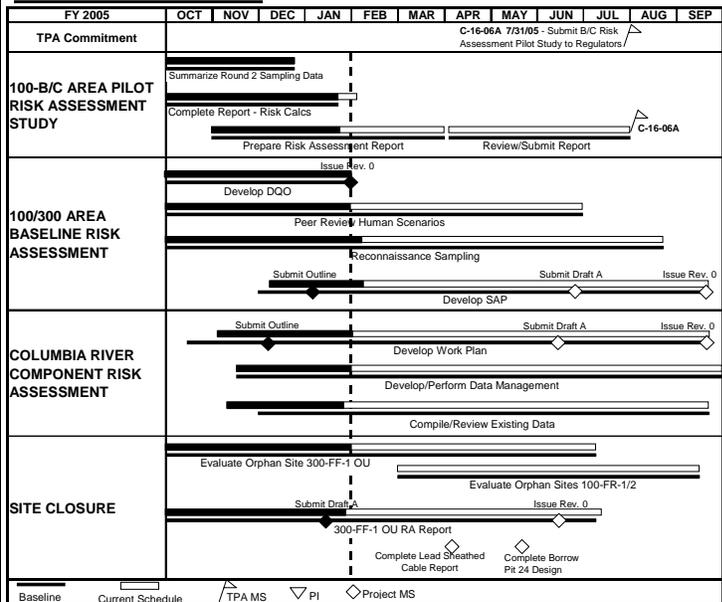
FYTD: (\$679K)

- Efficiencies realized in performing peer review of human scenarios, DQO development, and reconnaissance sampling. Efficiencies will result in a positive variance at completion and have been reflected in the EAC.

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

January 2005 Monthly Report

SAFETY:

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

HIGHLIGHTS:

Safety and Health:

- Completed draft radiological control timeline for the 618-2 Burial Ground event.
- Submitted to RL the quarterly Occurrence Reporting and Processing System Analysis Report, no adverse trends were noted.
- Conducted the quarterly review of Occupational Medical Incidents, no adverse trends were identified.
- Provided draft of the Industrial Hygiene Technician Training Program to the Training Advisory Group for review and comment.
- Revised the Safety and Health Procedure on controlling hot work.
- Distributed the 1 million safety hours award to ERC personnel. This is the sixth time ERC has achieved this significant milestone.

Technical Services:

- Submitted ERC regulatory required environmental reports to Fluor Hanford (FH) for incorporation into site-wide reports. These reports included the Annual Significant Discharge Report, and emission estimates for the Annual Radionuclide Air Emissions Report.
- Provided comments on draft State Waste Discharge Permit ST 4511 to RL.
- Submitted to RL summary reports for ERC Value Management efforts for FY01 through FY04.
- Provided projects with technology information including information on fixatives to support D&D of beryllium-contaminated facilities, expansive grouts for demolition of pedestals in the 107-N facility, remotely-operated characterization systems to support drum removal from the 618-7 Burial Ground, and liquid absorption technologies for controlling free liquids in waste containers.

Business Services:

- Working with HAMTC and Building Trades Council on commitment to safety. Both labor organizations provided letters of commitment to quality safety programs.
- Issued revised procedures on corrective action reporting and root cause analysis.
- Completed the preliminary 10CFR 830, Sub Part A, noncompliance determination for the 300 Area Remedial Action Project.
- Completed independent audits of FH Analytical Services Waste Sampling and Characterization Facility, and FH Compressed Breathing Air Service. These services continue to be approved for ERC work.

UPCOMING KEY ACTIVITIES:

- Review BHI-QA-01 Manual as needed, and submit to RL for approval - February.
- Issue the second quarter trend report - February.
- Complete the final noncompliance determination for the 300 Area Remedial Action Project - February.
- Complete 2004 RIDS Campaign with all RIDS approved and issued to File Custodians - February.
- Complete FY04 accruals for laboratory data validation - February.
- Complete audit of contract analytical laboratory, Eberline Services, Richmond - February.
- Complete the final report on the annual voluntary protection assessment - February.

ASSESSMENTS:

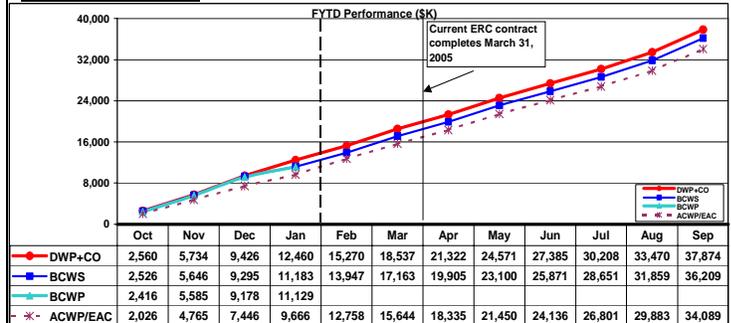
FY 2005 ERC Assessment Data						
Assessments	Oct	Nov	Dec	Jan	Feb	Mar
Scheduled	17	24	22	25	20	27
Scheduled / Performed	14	18	18	20		
Past Due Completed	4	0	5	3		
Unscheduled / Performed	3	5	5	3		
Total Performed	21	23	28	26		

Significant findings for this period:

- CAR 05-RA-01 – Planning process did not clearly identify the potential presence of separated Pu-239 in 618-2 Burial Ground.
- CAR 05-RC-01 – Exposure to airborne radiation at 300 Area 618-2 Burial Ground.

Corrective action planning is in progress.

PERFORMANCE:



- SV:** (\$54K); (0.5%). Insignificant.

- CV:** \$1,463K; 13.1%

Safety and Health:

- Understaffed by four positions (three safety engineers, one Safeguards and Security professional). RadCon Tech and RadCon Supervisor Training postponed in order to support current project needs. Time phasing of other Hanford Site contractor work orders for instrument calibration and maintenance and dosimetry.

Field Support:

- Capital equipment and material for heavy equipment repairs and maintenance on order, not yet received.

Other:

- FY04 final fee determination less than anticipated.
- Received reduced estimate of retiree medical cost portion of total Site medical from the Site plan administrator.

EAC TRENDS:

Current Month: \$861K

FYTD: (\$2,120K)

- FY04 fee less than forecast.
- Legacy retiree medical cost less than planned.
- Cost efficiencies in Technical Services, Business Services, and Project Controls.

ISSUES:

Requested RL to establish fire fighting responsibilities in the event that a trench, landfill, or burial ground fire should occur. RL Contract/Safety/Fire Department managers are reviewing existing contract requirements. Not yet resolved.

ENVIRONMENTAL RESTORATION GENERAL SUPPORT

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SAFETY:

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

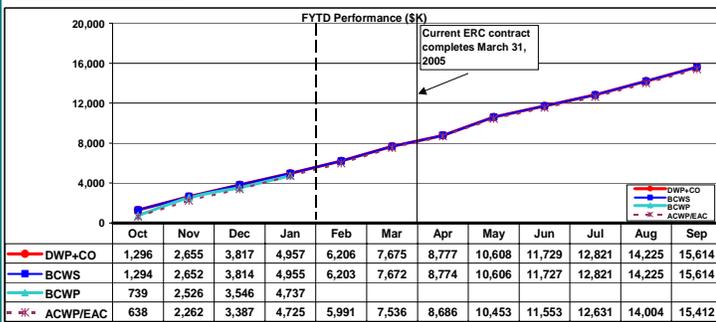
HIGHLIGHTS:

- Issued calendar year-end tax reporting statements on time (W-2's and 1099's).
- Completed the exempt and nonexempt CY2005 Compensation Increase Plans (CIP) and submitted them to RL for review and approval.
- Began the process of reviewing and revising the Training Coordinators Handbook.
- Delivered the 1st Quarter 2005 report on Conference Management to RL.
- Completed coordinating resolution of all RL comments received on the draft *BHI-FH River Corridor Closure Contract Transition Plan* (BHI-01751). Revision 0 of the plan, approved by BHI and FH, was submitted to RL for their approval on January 20, one day ahead of schedule.
- Safely completed the relocation of DIS, QA&S, and PAAA into Hanford Square IV.
- Began testing Office 2003 by functional groups. The project is on target for rollout in mid/late February.

UPCOMING KEY ACTIVITIES:

- Received final approval of FY02 rates, and the final rebill of rates will be concluded by March.
- Additional flat-screen monitors will be purchased for installation in the outer areas in March.

PERFORMANCE:



- **SV:** (\$218K); (4.4%). Postponement of system upgrades; server room move (June).
- **CV:** \$11K; 0.3%. Insignificant.

EAC TRENDS:

Current Month: (\$291K)

FYTD: (\$203K)

- Efficiencies in Human Resources and Office Services.
- Fewer Information Systems and Technology system enhancements.

CONTRACT METRIC:

	Goal	FYTD	Jan 05
Small Business	50.0%	68.0%	75.3%
Disadvantaged	6.5%	9.8%	19.8%
Woman-Owned	2.5%	3.0%	3.1%
Veteran-Owned	0.02%	0.68%	0.02%
SD Veteran-Owned	0.02%	0.10%	0.02%
Hubzone Certified	0.02%	10.8%	43.6%

Total P-Cards for January: \$ 338,553 (286 actions)

Total January Commitments: \$ 5,185,996 (325 actions)

Total FY05 Commitments: \$21,190,522

ISSUES:

- Personnel resources have not increased adequately to complete expanding workloads. Temporary support will be sought and, where possible, full time employees will be hired.