

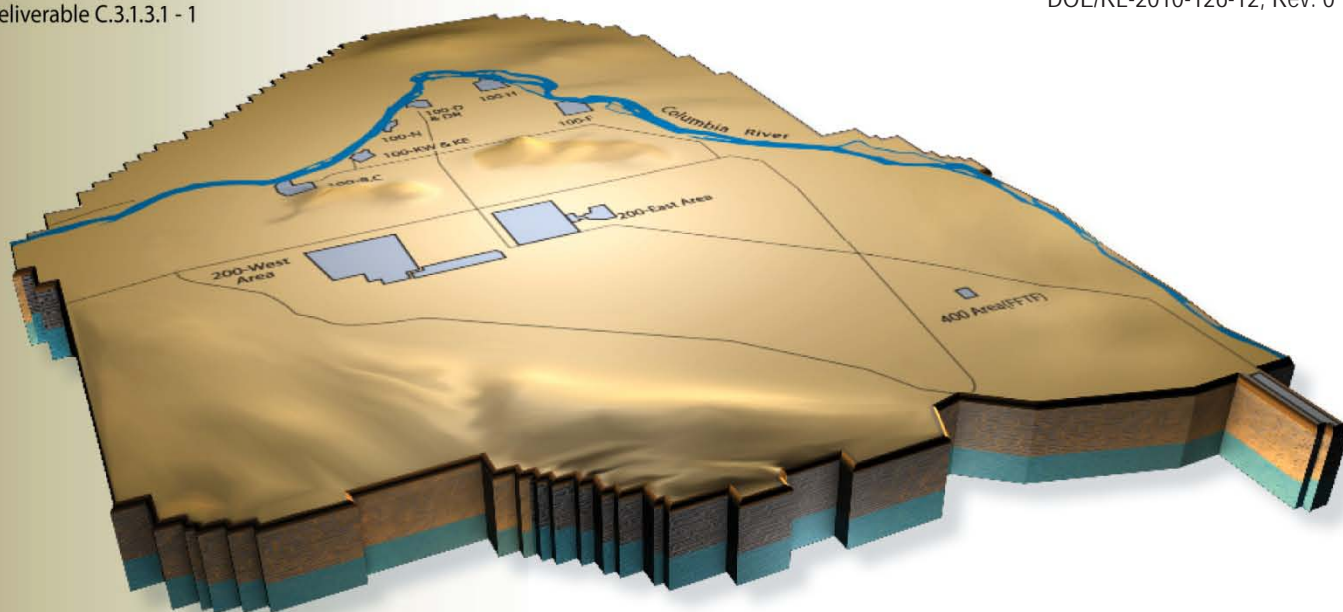


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President and Chief
Executive Officer

Monthly Performance Report

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December 2010
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CONTENTS

EXECUTIVE SUMMARY.....	2
TARGET ZERO PERFORMANCE.....	4
PROGRAM SUMMARIES.....	5
PROJECT SUMMARIES.....	10
KEY ACCOMPLISHMENTS.....	16
MAJOR ISSUES.....	30
EARNED VALUE MANAGEMENT.....	33
FUNDING ANALYSIS.....	46
BASELINE CHANGE REQUESTS.....	47
SELF-PERFORMED WORK.....	51
GOVERNMENT FURNISHED SERVICES AND INFORMATION.....	51

PROJECT BASELINE SUMMARY SECTIONS

Section A – Nuclear Materials Stabilization and Disposition of PFP (RL-0011).....	A
Section B – Spent Nuclear Fuel Stabilization and Disposition (RL-0012).....	B
Section C – Solid Waste Stabilization and Disposition (RL-0013).....	C
Section D – Soil and Groundwater Remediation Project (RL-0030).....	D
Section E – Nuclear Facility D&D, Remainder of Hanford (RL-0040).....	E
Section F – Nuclear Facility D&D, River Corridor (RL-0041).....	F
Section G – FFTF Closure (RL-0042).....	G

APPENDICES

Appendix A – Contract Performance Reports
Appendix A-1 – Contract Performance Reports - ARRA
Appendix B – Contract Deliverables, Milestones, Metrics
Appendix C – Project Services and Support (WBS 000) (PBS RL-XX.99)

EXECUTIVE SUMMARY

During the month of December, Waste and Fuels Management Project (W&FMP) shipped the 100th TRUPACT II container, with a total of 119 shipments and 563 cubic meters shipped since March 2010.

The Soil and Groundwater Remediation Project (S&GRP) and the Engineering, Projects & Construction (EPC) teams finished a major project milestone and an American Recovery and Reinvestment Act (ARRA) Key Performance Parameter (KPP), completing construction of the 100-DX Groundwater Treatment Facility. The facility, located in the 100 Area along the Columbia River, will help treat hexavalent chromium contamination in groundwater. The new system transitioned to operations in mid-December, completing Tri-Party Agreement (TPA) milestone M-16-111B and achieving the required HR-3 Operable Unit treatment capacity of 500 gallons per minute.



100-DX Groundwater Treatment Facility

On the Central Plateau, crews at the Plutonium Finishing Plant (PFP) completed initial cleanup of the Plutonium Reclamation Facility canyon floor. Crews also deployed for the first time a new glovebox decontamination agent, Aspigel®, in an effort to reduce the number of gloveboxes projected to require size reduction and disposal as transuranic (TRU) waste.

CHPRC's procurement volume reached \$1.54B. ARRA-funded awards of \$657M have accounted for 43% of all actions placed since contract inception. Forty-nine percent (\$760M) of total awards and over 55% (\$364M) of ARRA awards have been made to small businesses.



100th TRUPACT II Container Shipment

Across the Hanford Site, the Decommissioning and Demolition Project (D&D) crews were at work along the river and on the Central Plateau, completing removal of the 105KE Reactor discharge chute in the 100K Area and removing the 284WB Package Boiler Plant and its diesel tank in the 200 West Area.



284WB Package Boiler Plant Demolition

Focus on Safety

Focus on Winter Safety continued at the December President's Zero Accident Council (PZAC). Facts of safe driving in winter conditions were presented by a member of the Washington State Patrol. Holiday safety, the newly available spotter training, and the Voluntary Protection Program (VPP) Safety Improvement Plan were also discussed.

The approved VPP Safety Improvement Plan, which is the result of employee and management teaming, identifies six areas of improvement, and associated actions, for the coming year:

- Improve elevated work safety
- Improve vehicle safety
- Reduction of high frequency injuries
- Improve communication
- Implement a VPP awareness campaign
- Awareness and support of work observations

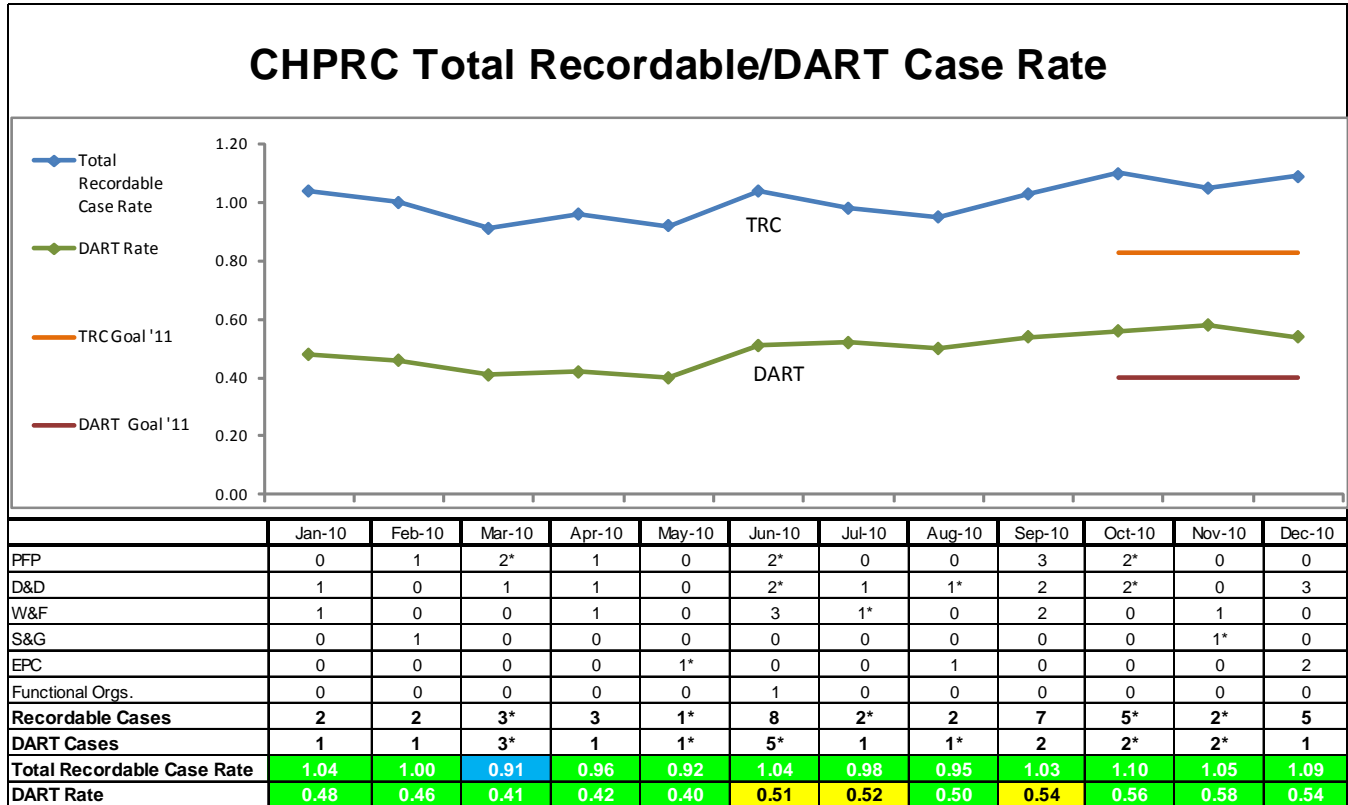
In the continuing efforts to improve radiation detection capability and enhance project radiological characterization data, CHPRC Radiation Protection Programs established an operating Alpha Spectroscopy counting system. The new system provides a detailed analysis of alpha-emitting radionuclides that allows field personnel to quickly determine the presence of natural occurring radioactivity. Sample analysis results can be quickly sorted in order to develop facility characterization documentation needed to support work planning, internal dosimetry, and radiological release programs at the project level.

The Emergency Badge Card was rolled-out in the month of December. This program is a voluntary program enabling employees to self-identify vital information to be made available in the event of a personal emergency. The employee submits the information to a project point-of-contact who uses a web based form to create and print the Emergency Badge Card which is then laminated and provided to the employee to be worn on the security badge lanyard.

Safety Tailgate topics for the month of December includes information and lessons learned on the use of power tools and proper utilization of safety features of the device (i.e., guards), maintaining situational awareness when performing daily tasks, and a recent close call when a worker sustained a soft tissue injury to the right thumb when closing the tailgate of a truck. In keeping with seasonal themes, holiday safety ladder use and fire safety tips, the importance of Stretch and Flex activities with the colder weather and increased susceptibility to injury due to tighter muscles, hypothermia, as well as recognizing post holiday distractions were also focus areas of the Safety Tailgates. Three Human Performance Improvement (HPI) tools were re-enforced: Peer-checking, the use of formal communications, and "place keeping" as a technique to aid in adherence to procedures.

TARGET ZERO PERFORMANCE December 2010

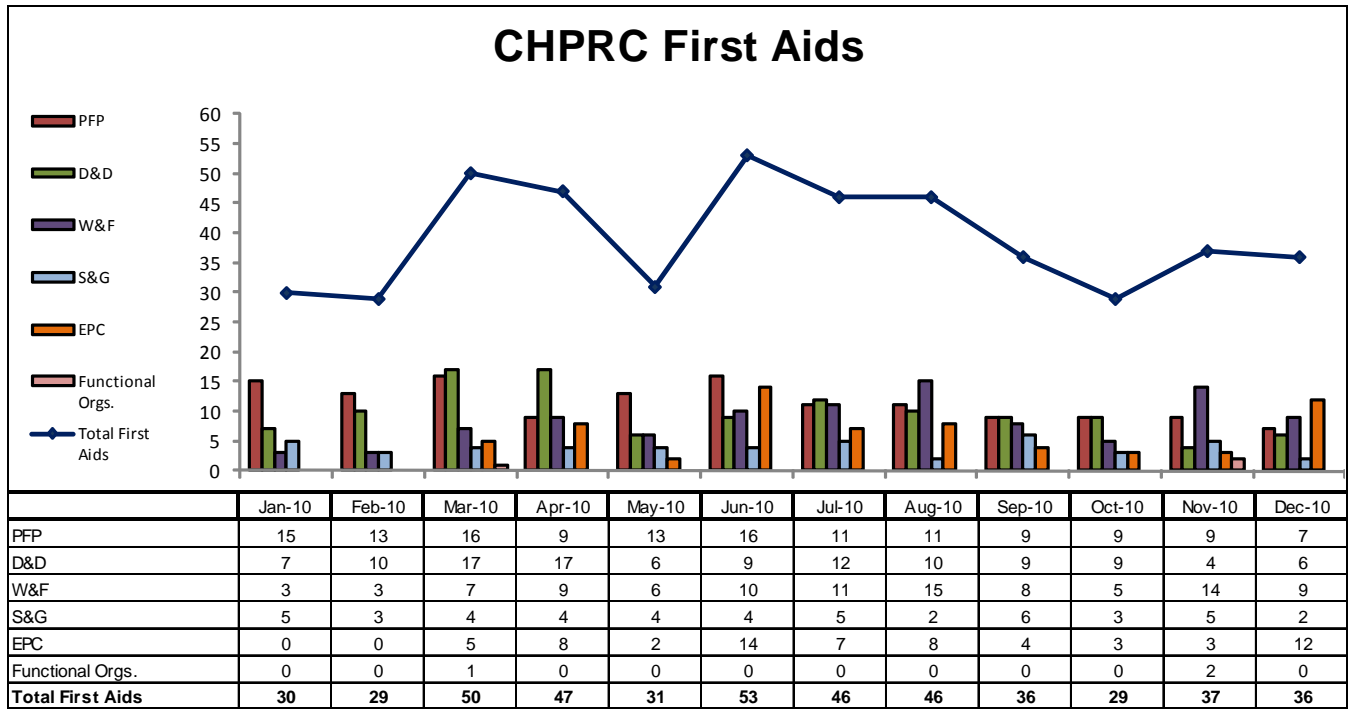
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12-month rolling average TRC rate of 1.09 is based upon a total of 42 recordable injuries for the period. There were five Recordable cases in December. Update: One recordable case in November resulted in Days Away. Four cases are currently under review requiring additional information.

Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12-month rolling average DART rate of 0.54 is based upon a total of 21 cases (16 Days Away, 5 Restricted).

(*The monthly numbers indicated in the chart are updated to reflect the month in which the injury occurred. The rates also capture any changes resulting from reclassified cases or those added as a result of completed investigations.).



First Aid Case Summary – Thirty-six first aid cases reported in December. The biggest contributors were 17 Sprains, Strains and/or Pains, seven abrasions or bruises from contact with objects, seven miscellaneous 34% (12) of the first aids were from Slips/Trips/Falls resulting in injuries to upper and lower extremities (~50% due to weather). Most other injuries were strains from awkward positioning, overexertion or abrasions where they struck an extremity against an object.

PROGRAM SUMMARIES

Safety, Health, Security, and Quality (SHS&Q)

Progress continues on activities in support of the Hanford Site Corrective Action Plan (CAP) for improving the Site’s Chronic Beryllium Disease Prevention Program which was approved by the Department of Energy Office of Environmental Management (DOE-EM) and the U.S. Department of Energy Office of Health, Safety, and Security this month. Activities include development of a more rigorous building characterization process, enhanced training for Industrial Hygienists (IH) and IH Technicians, training for planners, supervisors, managers and Persons In Charge. CHPRC is currently on schedule with our PRC actions related to the Site Beryllium CAP. December actions included:

- Development of a more rigorous site-wide process for facility assessments
- Development of a more rigorous site-wide process for characterization sampling
- Updating the postings of beryllium controlled areas using the new ANSI-compliant signs
- Development of a resource loaded implementation schedule and management plan for the completion of the CAP
- Working with the other contractors to revise the Beryllium Work Permit (BWP) form and to provide detailed instructions on the completion of the BWP

In support of the Hanford Site corrective action plan and the Chronic Beryllium Disease Prevention program, CHPRC issued PRC-MD-SH-40384, Analysis and Reporting of Beryllium Characterization Data. This management directive serves as an interim measure pending the issuance of the new site

wide Beryllium procedure and provides direction for reporting beryllium survey results above trigger levels, calculating geometric mean, and reporting characterization sampling results. This Management Directive also identifies requirements that must be met prior to down-posting a Beryllium Controlled Area.

CHPRC is developing our Integrated Performance Improvement Plan corrective action plan with input and support from RL points of contact. This mutually agreed upon plan will include actions related to the Conditional Payment of Fee letter, Plutonium Finishing Plant 'R' report, Integrated Safety Management System Phase 2, Safety Improvement Plan, and other related actions. It is anticipated to be transmitted to RL in January 2011.

Environmental Program and Strategic Planning (EPSP)

CHPRC submitted six pollution prevention and sustainability annual award nominations to DOE-HQ for consideration. Nominations will be reviewed by DOE-HQ and the winners announced in early 2011.

The Eastern Washington Chapter of the Academy of Certified Hazardous Material Managers recognized Paul Martin of the EP Department as the "Manager of the Year" for mentoring and his Resource Conservation and Recovery Act of 1976 "2-minute training" distributions.

The Department of Ecology (Ecology) conducted a Hanford Air Operating Permit Compliance inspection of six CHPRC emission units to verify compliance with Air Operating Permit (AOP) and FF-01 license requirements, with no Findings.

A Pollution Prevention Opportunity Assessment was completed for the Construction Forces carpentry shop. Two opportunities were identified for further evaluation.

Environmental Quality Assurance: Surveillances Completed

- Using and Storing Chemicals - D&D (QA-EQA-SURV-11-01): resulted in no Findings or Opportunities for Improvement (OFI)
- NPDES Monthly Reporting and Discharge of Wastewaters to Ground at 100K (QA-EQA-SURV-11-004): resulted in no Findings and three OFI's
- WSCF Deionized Water (QAQ-EQA-SURV-11-05): resulted in no Findings or OFI

Management Assessments Completed: Sampling Program & Processes - Settler Sludge Sample Chain of Custody - D&D (MA-11-01): resulted in one OFI.

Business Services and Project Controls

In December, CHPRC approved and implemented seven baseline change requests, of which two were administrative in nature and did not change budget, schedule or scope.

Overall the contract period PMB budget was reduced \$258.0M in December 2010. While there was no use of management reserve due to realized risks in December 2010, the management reserve values for all Project Baseline Summaries (PBSs) were revised based on an updated risk profile for all PBS scope as defined in the PRC Baseline, Revision 2 Update (see baseline change request BCR-PRC-10-053R0, dated September 10, 2010) and documented in Risk Results Report CHPRC-00598, Revision 1, dated October 2010. The overall change in management reserve is an increase of \$36.7M, with a reduction of \$14.8M in the near term (fiscal years (FYs) 2011-2013) and an increase of \$51.5M in the out-years (FYs 2014-2018).

Four Change Proposals were delivered in support of the upcoming Contract negotiations.

During December, Prime Contracts received and processed five (5) contract modifications (#132, 111, 135, 136, & 130) from RL. The Correspondence Review Team reviewed and determined distribution

for 50 incoming letters and the Prime Contract Manager reviewed 60 outgoing correspondence packages.

The procurements have been awarded for two additional five-wide mobile offices and two mobile restroom facilities required to support the remaining space requirements for S&GRP. Deliveries are scheduled between January 17, 2011 and February 1, 2011. The site preparation contract for installation of these units was awarded on December 17, 2010, and field work will commence on January 5, 2011.

Occupancy of the first shop facility in the Unsecured Core Area of 200E (S&GRP Building 2-2268E) was obtained on December 20, 2010. The S&GW Building 1 – 2269E and EPC Buildings 1 and 2 – 2610 and 2611E are scheduled for occupancy on January 31, 2011.

The procurement group awarded 125 new contracts with a total value of \$13.5M, amended 598 existing contracts with a total value of \$1.67M, and awarded 321 new purchase orders valued at \$2.4M to support Base/ARRA acceleration objectives.

As measured at the end of the first 27 months, CHPRC's procurement volume has been significant; \$1.54B in contract activity has been recorded with approximately 49% or \$760M in awards to small businesses. ARRA funded activity totals 43% or \$657M of the grand total. This includes 4,631 contract releases, 7560 purchase orders, and over 136,000 P-Card transactions.

CHPRC submitted Revision 2 of the Subcontracting Plan to RL on December 30, 2010. There were minor changes to the narrative portion of the plan. CHPRC proposed to raise the small business goals in two categories:

- Women-owned small businesses from 6.5% to 7.5%
- Veteran-owned small business goal from 2.0% to 2.7%

CHPRC also proposed to lower the small business goals in two categories:

- Service-disabled veteran owned small businesses from 2.0% to 1.3%
- HUBZone small businesses from 3.2% to 2.2%

Attachment 5 to PRC-PRO-123 was published for all Buyer Technical Representatives (BTRs) to use. It was reworked to simplify the structure and update the content. Attachment 5 to PRO-123 is a working reference for CHPRC requestors/BTRs who are preparing acquisition documents and Statements of Work (SOW). The purpose is to help the requestor/BTR identify circumstances when involvement of one or more subject matter experts might be needed, not to answer the question or provide guidance. It will lead the requestor/BTR to an appropriate contact that can provide guidance, additional supporting information and oversight, if needed. The goal is to help the requestor/BTR create a more complete and better SOW and ensure that an appropriate and experienced team is involved with the acquisition.

Material Services submitted Final Management Responses to Internal Audit on P-Card audit IA10-10, and later submitted supplemental information at the request of RL.

P-Card Administration has been working with IDMS experts at LMSI to develop the structure in which P-Card records will be scanned and maintained.

Material Services has been training several Fluor Federal Services personnel in the creation of Passport catalog IDs, eBOM input and purchasing, and P-Card. This effort is in support of CHPRC small business goals.

Material Services assisted PFP in setting up a large number of Catalog IDs for the 234-5Z Supply Air Chiller System. For this reporting period, 57 new Catalog IDs for this system were set up, with more to follow.

CHPRC worked with the Mission Support Alliance, LLC (MSA) programmer to affect changes in the *Crystal Spare Parts by Responsibility Group* and *Reorder Analysis* reports. These reports are "Burst"

every Monday morning to the members of each Passport Alert Group. A previous change to the report forced an indication that a demand had been placed on a given item and added the corresponding Material Request Number. The previous change also added whether or not a Purchase Requisition had been created for each item on the Reorder Analysis report, but did not give the number. The latest change to the report added the Purchase Requisition Number.

Material Services and Procurement personnel have been working with Finance to improve Crystal and financial reports having to do with P-Card data. One improvement adds the unit of measure for each line item.

CHPRC updated instructions in PRO-123 Attachment 5 for both PRC-PRO-EN-129 (Controlling Spare Parts Inventory) and PRC-PRO-IR-070 (Plant Forces Work Review – Davis-Bacon Act Compliance). The purpose of this change was to improve the effectiveness of PRO-123 as a tool for BTRs.

CHPRC updated Non-Standard High-Efficiency Particulate Air (HEPA) Quality Assurance Inspection Procedure (QAIP) in the Passport Library per request from HEPA Filter subject matter expert.

Working with the CHPRC Waste and Fuels Management Project (W&FM) Project and Washington River Protection Solutions (WRPS), Interface Management facilitated completion of an update to HNF-3395, *Interface Control Document between 242-A Evaporator Facility and the LERF*.

CHPRC SHS&Q and Interface Management developed and provided MSA with CHPRC's proposal on how to best respond to RL's request that MSA evaluate the potential consolidation of Hanford Prime Contractor Emergency Preparedness (EP) organizations under MSA.

Interface Management worked with CHPRC Facilities and Property Management and MSA to better define roles and responsibilities for how engineering support and configuration management and work control is implemented at CHPRC non-radiological facilities where MSA provides facility maintenance per the DOE J-3 Matrix Service J-36, *Facility Services*. It was agreed MSA will provide engineering support, configuration management, and work control for these facilities.

Working with the CHPRC W&FMP, Interface Management developed and successfully negotiated with MSA and WRPS a revision to the Service Delivery Document (SDD) for J-3 ID #38, *Fleet Services*, which incorporated roles and responsibilities for operation of hazardous waste tank trailers.

Components of the MSA managed fleet, which these tanker trailers are a part of, are typically assigned and utilized by a single contractor. The tank trailers are unique due to their assignment to CHPRC as their custodian yet they are used by shippers other than CHPRC (such as WRPS) and the hazards associated with their cargo making formal documentation of the roles and responsibilities associated with their operation appropriate.

Working with MSA, Interface Management developed a proposed new Administrative Interface Agreement defining the roles and responsibilities for operation of Pit 34, which is assigned to CHPRC but operated by MSA. The proposed agreement is currently undergoing final review and approval.

FY2011 changes to MSA's rate structures for Analytical Services, Crane and Rigging Services, Facility Services, Motor Carrier Services, and Roads and Grounds Services has caused CHPRC to be concerned that costs associated with these service areas identified as base operations costs by the DOE J-3, Hanford Site Services and Interface Requirements Matrix, may be inappropriately being passed to Other Hanford Contractors. Interface Management developed a summary of CHPRC's concerns and forwarded it to MSA with a request for a response.

Interface Management continued its support of CHPRC's ongoing effort to improve performance on the execution of medical exams for CHPRC workers by Advance Med Hanford

Working with SHS&Q and Information Management & Technology Services, Interface Management initiated a dialogue with MSA regarding CHPRC concerns with the lack of effectiveness of the J-3 Matrix Services Craft Radio Services and Emergency Radio Services provided by MSA. Radio coverage at a number of locations across the Hanford Site is a CHPRC operations and safety concern.

Interface Management worked with MSA Strategy and External Affairs to define a path forward for CHPRC participation in developing a third revision to the proposed Infrastructure and Site Services Alignment Plan that MSA plans to submit to RL in June 2011.

Interface Management reviewed and commented on changes to the draft Hanford Site Interface Management Plan proposed by MSA to address RL comments.

Engineering, Projects and Construction (EPC)

Central Engineering (CE) represented the CHPRC at the Energy Facilities Contractors Group semi-annual meeting. The CHPRC Chief Engineer presented the Engineering Practices Working Group (EPWOG) progress report and provided meeting notes to staff members.

CE, in conjunction with EPC Preventive Maintenance/Corrective Maintenance PM/CM Program Support personnel, finalized and approved an EPC Engineering Blanket Master Agreement (BMA). The BMA was posted for solicitation in December; six bidders responded. The contract is scheduled for award in January 2011.

CE completed an evaluation of sheave bracket weldments associated with Washington Closure Hanford's Environmental Restoration Disposal Facility (ERDF) shuttle trucks. Observed weld flaws are attributed to poor workmanship at the time of fabrication and as a result of operational service. A recommendation was made that Hanford Welding Program personnel re-work the welds to bring into compliance with applicable, governing codes and standards.

CE provided comments on the preliminary design of the 100 KE Reactor Core Disposal Packaging project.

CE is checking calculations and performing an independent design review for the KW Annex Modifications to support the retrieval, transfer and packaging of existing engineered container and settler tank sludge from the KW Basin.

CE presented HEPA filter training (course number 020420) on December 13, 2010. The course was attended by craft personnel, planners, QA/QC personnel, system engineers, design authorities, and project managers.

CE was invited to the Electric Power Research Institute (EPRI) Welding Repair and Technology Center (WRTC) annual meeting in New Orleans, LA to present/discuss welding challenges/issues associated with the closure of radioactive materials containers. The CHPRC, with DOE-RL support, is considering the use, and attendant qualification activities, of an emerging joining technology for upcoming Hanford packaging activities. The CHPRC work and activities were well received by the WRTC; follow-on meetings with EPRI (in Richland, WA) are tentatively planned for the first part of 2011.

CE developed temporary tags for Authority Having Jurisdiction (AHJ) approved equipment requiring Ground-fault circuit Interrupter (GFCI) protected circuits.

EPC-2011-WSA-10421 was completed. The Work Site Assessment evaluated the Safety Management Program Lines of Inquiry for Key Attributes 16-3, and 17-5.

CE continued evaluation of potential non-nationally recognized testing lab equipment. The majority of the items are approved for use in the field once a thorough review has been completed and supporting documentation has been prepared and approved. For example CE support to close out NCR-10-

MSA/AVS-0224: a non-compliance report was written for storage units that had been delivered with a Nationally Recognized Testing Lab (NRTL) requirement on the QAIP and the Acquisition Verification Services (AVS) inspector was unable to determine if all components had NRTL labels. The outcome was to accept the units as is on the basis that it was assembled equipment that had passed a previous National Electric Code (NEC) inspection.

CHPRC continued to provide technical support to the ARRA facilities projects, including SOW review and approval, detailed design drawing checking and approval, calculation preparation, submittal reviews, Facility Modification Packages, Design Change Notices, Memorandum of Understanding review and approval, and field walk downs at the mobile office construction sites.

Communications and Outreach

CHPRC Public Affairs supported development of press releases on the completed cleanup at the Arid Lands Ecology Reserve (ALE) and the 100th TRUPACT-II shipment. Both accomplishments were featured in the *Tri-City Herald* and RL's social networking sites. The *Tri-City Herald* also featured an article about CHPRC employees receiving awards from the Eastern Washington Chapter of the Academy of Certified Hazardous Materials Managers, two of which were for the use of innovative technologies to support Recovery Act-funded waste site remediation.

The December issue of the DOE-EM *Recovery News* newsletter featured CHPRC's progress in 2010 that is setting the stage for continuing cleanup at the Hanford Site. Articles submitted for future issues of the newsletter include a story about CHPRC's top three accomplishments in 2010 (demolishing facilities, expanding groundwater treatment and removing legacy waste and fuels) and a profile on Rick Nickerson, an employee hired via the Recovery Act.

In addition to the weekly report, Public Affairs published its weekly *Recovery Act Update*, documenting current issues. Copies of the newsletter are available on CHPRC's external web site and feature a wide range of project progress topics.

This month's weekly videos for the weekly Recovery Act report covered cleanup on the Central Plateau: placement of pavement for next generation waste retrieval equipment in the 200 West Area; the 100th TRUPACT-II shipment to leave the Hanford Site; and, new technology deployed to support soil remediation at the BC Control Area. December's edition of *On the Plateau* highlighted ongoing glovebox removal at PFP, listed the Environmental Management System (EMS) targets for the new year, and described the historic footprint reduction on the ALE reserve.

CHPRC played a major role in the development of the MSA led *Hanford Story* video series that will be shown on interactive kiosks placed throughout the Tri-Cities.

Communications produced four *InSite* Weekly News programs aimed at communicating progress, employee engagement and community involvement by the workforce.

CHPRC began planning for January all employee meetings.

PROJECT SUMMARIES

RL-0011 Nuclear Materials Stabilization and Disposition

The PFP Project continues to maintain PFP facilities compliant with authorization agreement requirements.

ARRA

Removal of plutonium-contaminated process equipment continued as a top priority in readying the PFP Complex for demolition, with a particular focus on removal of gloveboxes, hoods and associated piping

and ductwork from the process, lab and vault areas. Although this work is currently behind schedule, significant progress was achieved on implementation of the schedule recovery plan. The plan was briefed to RL on December 1, 2010 and subsequently incorporated in the project's detailed field execution schedules. Modifications to the project baseline and a baseline change request are being finalized to incorporate the recovery plan into the baseline for implementation in January. All recovery actions for the first quarter of FY2011 were completed as planned, including deployment of the Aspigel® decontamination product, startup of the first centralized size reduction station, placement of a sub-contract for size reduction and packaging of TRU-contaminated gloveboxes, and preparations to receive and deploy 30 experienced staff from other CHPRC projects, including 20 Nuclear Chemical Operators, eight Radiological Control Technicians and two first line supervisors. A significant increase in the rate of completion of field work was achieved, resulting in a record number of gloveboxes removed, removal of the first 550-ft section of process vacuum system piping, and removal of the 2nd and 3rd 115-ft sections of process transfer lines. Insulator crews also removed asbestos from a substantial amount of piping and ductwork, bringing the total linear footage completed at PFP with Recovery Act funds to 12,444 feet.

A total of 93 gloveboxes and hoods have been removed to date with Recovery Act funds, with three more isolated from building ventilation and awaiting transfer to waste operations at month-end. Of these, 83 have been shipped out of PFP for treatment or disposal and six have been set aside for size reduction and disposal as transuranic waste. As the pace of D&D work has accelerated at PFP, so have waste generation rates. CHPRC has now shipped approximately 2,643 cubic meters of waste from PFP with support from Recovery Act funds, including 2,272 cubic meters of low level and mixed low level waste (LLW/MLLW), 348 cubic meters of TRU waste, and 23 cubic meters of non-radioactive waste.

With seven of nine gloveboxes removed and much of the process equipment removed from the remaining two, the PFP Vault Complex is rapidly approaching a ready-for-demolition condition. Glovebox 642-C was chemically decontaminated, isolated and relocated from Room 642 to Room 636 pending a final determination of the disposal path. In addition, work has been initiated to remove external equipment from the large furnace glovebox 642B and to prepare it for removal. Work continued in the laboratory and processing areas on process equipment removal, chemical decontamination, electrical isolation of various rooms and areas, and removal of hazardous materials that must be disposed of separately from the demolition debris. Work was also initiated to update the cost estimate and schedule for demolition of the four vault complex facilities, and to evaluate the feasibility of accelerating demolition into FY2011.

Base

236Z Plutonium Reclamation Facility – Vacuuming of the 15 floor pans was completed and the resulting residues were removed from the canyon. A total of 133 poly-jars of waste were removed, size reduction of the hard waste was completed, and 95% of the resulting waste removed from the canyon.

Room 27, containing the maintenance glovebox, was prepared for size reduction, and mechanical and gross decontamination of the canning, loading and charging gloveboxes was completed.

RL-0012 Spent Nuclear Fuel Stabilization and Disposition

Sampling of the Engineered Container 210 (EC-210) is nearing completion. Three cores have been retrieved successfully and safely shipped to Pacific Northwest National Laboratory (PNNL) for characterization and analysis. One final core has been retrieved and is awaiting shipment to PNNL the first week in January. (NOTE: On January 4, 2011, the final shipment of sludge to be sampled was shipped. The Sludge Treatment Plant's (STP) sampling campaign is now complete.)

The knockout pot (KOP) subproject continued with final design having received approval from the CHPRC Project Review Board on the Preliminary Design package. In addition, the KOP mezzanine has been fabricated and shipped to the Maintenance and Storage Facility (MASF) for installation. The Qualification Test Plan/Specification for Pretreatment Testing was approved by the STP Joint Test Group (JTG).

Engineered Container Retrieval Transportation System (ECRTS) component testing continues at MASF. The integrated decant testing using simulated unsettled solids were successfully filtered, and the overflow recovery test using simulated metal-rich sludge was started. Additional integrated decant testing (with flocculent) was also performed. While the flocculent injection was minimally effective, it did provide information for the next round of tests, as to where the injection point could be more effective. With the completion of these tests, the ECRTS testing will now focus on preparation for the fully integrated test to demonstrate a Technology Readiness Level – 6 (TRL-6).

Nearly all the contracts for the Phase 2 Technology Evaluations have completed the submittals. AREVA is the exception, due to analysis at the PNNL laboratory slipping schedule (laboratory resource constraints). The final test will be performed in early January and the report submitted to CHPRC by the end of January. On December 17, 2010, a summary status briefing was provided to RL that discussed the status of the Phase 2 testing activities, current conclusions, and the evaluation process that will be employed.

Finally, the project initiated preparation for the Defense Nuclear Facilities Safety Board staff visit in January. The project began to prepare briefing charts and storyboards that will be staged at MASF for the tour and demonstrations.

RL-0013 Waste and Fuels Management Project (W&FMP)

The W&FMP focused on delivering safe, compliant performance.

ARRA

Weekly and monthly Recovery Act Reporting continued. Work continued on a “middle-ware” utility to provide an accessible, user friendly and comprehensive interface for waste inventory, forecast, and reporting data. Mixed/Low Level Waste: M-91-42 – shipped 19 m³ and completed 83 m³ during the month. Transuranic (TRU) Retrieval removed, constructed shoring box, and shipped 3A Trench 17 Box 13 (54.4 m³); shipped two 3A Trench 8 containers to CWC (6.3 m³); removed and assayed 3A Trench 17 Box 16 (17.3 m³). Next Generation Retrieval (NGR) declared readiness for the Trench Face Retrieval and Characterization System (TFRCS) Contractor Readiness Assessment. TRU Repackaging supported the shipment of three Transuranic mixed (TRUM) gloveboxes out of PFP to Perma-Fix Northwest (PFNW), repackaged 18 and vented 56 drums. TRU Disposition continued TRU Waste Shipments to the Idaho’s Advanced Mixed Waste Treatment Project.

Base

The W&FMP continued maintaining facilities in a safe and compliant condition. Continued roof upgrades for the Waste Encapsulation and Storage Facility (WESF). Canister Storage Building (CSB)/Interim Storage Area (ISA) completed implementation of Safety Analysis Report annual update. T-Plant completed Beryllium training for 92% of Operations staff and 69% of Radiation Control personnel. Central Waste Complex (CWC) shipped six on-site transfers (208 containers); received 12 on-site transfers (302 containers); shipped five off-site shipments (20 containers); and received two offsite shipments, 11 containers. Low-level burial grounds (LLBG) Mixed Waste Trench (MWT) – Shipped two leachate tankers to Effluent Treatment Facility (ETF). Liquid Effluent Facilities (LEF) received 76 tankers (54K gallons), treated 1M gallons to State-Approved Land Disposal Site, and

continued with Basin 43 Processing Campaign (processed .8M gallons). Slightly Irradiated Fuel (SIF) completed construction for Project-W-105, Interim Storage Cask Pad #3 for the Container Restraint System.

RL-0030 Soil, Groundwater and Vadose Zone Remediation

ARRA

Recovery Act dollars are at work across the Central Plateau and along the Columbia River constructing two groundwater treatment facilities and drilling wells that will be used for monitoring, extracting, and remediating groundwater. Progress through the end of the fiscal month December is summarized in the table below.

Activity	December		Cumulative	
	Planned	Completed	Planned	Completed
Well Drilling (# of wells) -352	11	8	309	291
Well Decommissioning (# of wells) -350	14	10	213	186
100 DX P&T – Construction/Startup (%)	1	1	100	100
200 West P&T – Final Design (%)	-	-	100	100
200 West P&T – Construction (%)	0	4	42	40
200 West P&T – Testing/Startup (%)	6	10	23	27

Base

Base work includes the pump-and-treat operations, Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial processes, and documentation for the River Corridor and Central Plateau. The second of three rounds of aquifer tube sampling was completed at the 100-HR-3 Operable Unit. Sampling and groundwater treatment completed in December includes the following:

- 241 well locations were sampled with a total of 1,345 samples being collected
- 162 aquifer tube samples collected from 32 tubes at 18 locations
- 18.64M gallons groundwater treated by ZP-1 treatment facility
- 20.81M gallons groundwater treated by KX treatment facility
- 8.8M gallons groundwater treated by KW treatment facility
- KR-4 treatment facility shutdown in December for facility upgrades
- 7.5M gallons groundwater treated by HR-3 treatment facility
- .96M gallons groundwater treated by DR-5 treatment facility
- 14.64M gallons groundwater treated by DX treatment facility
- 71.3M gallons of groundwater treated total

RL-0040 Nuclear Facility D&D, Remainder of Hanford

ARRA

224U and 224UA structures demolition is complete; final survey, equipment decontamination, and stabilization continue.

Upper ALE closeout paperwork and power pole removal continues.

Efforts have begun at U Canyon on grout supporting activities. Core drilling continues and material staging area preparation has started for grout. The cask was received for the D-10 tank disposition at U Canyon. The 209E facility continued with characterization including visual inspection of tanks.

D&D completed the facility transition to temporary electrical power to support the operation of the ventilation and fire systems to allow for more efficient isolation of systems and components for inventory reduction activities. Filled the first standard waste box (SWB) with potential TRU and staged at 2718E for nondestructive assay (NDA). Completed extensive NDA within the critical assembly room (CAR) and mix room of miscellaneous pipes and equipment in support of the final facility downgrade activities.

Asbestos abatement in 284E Powerhouse is complete. Final cleanup and demobilization is ongoing, Cold and dark and characterization activities continued in 200 West and East structures. The explosive demolition planning is ongoing. Completed demolition activities on 284WB Power Boiler Plant.

Cleanup of North Slope debris pile sites continues.

CERCLA documentation for railcars progressing as planned; visual inspection of the rail cars continues as does work planning for the next phases.

Remediation activities continued in the Outer Zone at BC Control area, CW-3 waste sites, and Model Group (MG)-1 waste sites. BC Control Area removed approximately 21,000 tons of soil in December; approximately 107 acres of BC Control Area, Zone A, have been cleared to date. The closure documentation has been submitted for CW-3 waste sites 216-N-4 and 216-N-6. Excavation continued on MG-1 waste site 200-W-147-PL with 2,680 tons of soil transferred to the ERDF in December.

Sampling/surveys have been completed on 17 MG-1 sites.

Base

Planned surveillance and maintenance S&M activities continue. Initial beryllium characterization sampling is in progress at REDOX, 231Z, and 222T.

CW-3 remediation has been performed to remove pipeline 600-286-PL and 600-287-PL. Approximately 2,840 tons of soil was removed from CW-3 pipeline sites during December. Post-remediation sampling has determined that remediation is complete for the CW-3 pipelines.

MG-1 sampling of waste site 600-222 revealed additional contamination; these areas were further excavated and re-sampled. Excavated and transferred 110 tons of soil to ERDF in December. Staged clean fill dirt at waste site 600-38, pending completion and approval of regulatory documents. Closure documentation for 600-222 and 600-38 has been submitted for review and approval.

RL-0041 Nuclear Facility D&D, River Corridor

ARRA

Facilities

D&D is resolving comments from the Preliminary Design Review Meeting for the 105KE Reactor Core Removal Project.

Work is continuing on 105KE Reactor Disposition Interim Safe Storage activities; planning for soil characterization using direct push technology, was initiated this month.

Crews continued demolition for below-grade portions of the 115KE Gas Recirculation Building and 117KE Exhaust Air Filter Building and continued characterization of the 181KE River Pump House/1605KE Guard House, and the 183.1KE Head House.

D&D issued contract for disposal of stock-piled debris from the 183.2KW Sedimentation Basin Complex.

D&D planned for deactivation on the 183.4KE Clear Well, 183.4KW Clear Well, and 190KW Main Pump House.

Crews began asbestos removal on the 190KE Main Pump House.

Waste Sites

Excavation and load out of soils commenced this month at 1706KE and 1706KEL.

Load out of soils resumed at 100-K-3 this month.

Work continued on the 116-KE-1 Condensate Crib. Work continued on cleanup around the 100-K-42 Fuel Storage Basin and associated discharge chute removal.

D&D continued waste site remediation of the below listed remove, treat, dispose (RTD) sites:

Active Excavation on ARRA Waste Sites or Subgrade Structure	Dec 2010	
	Tons	Loads
100-K-42	2,872	177
115-KE	966	59
117-KE	98	5
1706-KEL	1,003	48
1706-KE	488	25
100-K-3	130	6
Monthly Total	5,557	320
Previous Cumulative (all sites under ARRA)	68,006	3,919
ARRA Cumulative (FY-09 to Date)	73,563	4,239

Work resumed in mid-month on UPR-100-K-1 (work performed as 100-K-42), 100-K-53, 100-K-77, and 116-KE-1 as D4 activities wrapped up in the immediate areas. 100-K-57 and 100-K-64 are suspended pending contractual action and response from Washington State and the Tribes to the Cultural Mitigation Action Plan submitted to RL in mid-December. Sites associated with the cultural mitigation plan are currently in jeopardy of missing the TPA milestones. Plans are being made to address the additional contamination removal where available.

Other

Sludge vacuuming has been completed overall in the K West Basin. Over 679 debris units have been removed or dispositioned from the K West Basin to date.

Heating, Ventilation, and Air Conditioning (HVAC) Project: HVAC equipment is in full sustained operation and performing as anticipated, providing a more suitable environment for K West Basin employees. Final closeout of punch list items is being worked in preparation for issuance of the final Construction Closure Document and demobilization of the subcontractor.

Electrical Project: Continued work to close out punch list activities necessary to complete transitioning from the existing A-7 yard to the new A-9 yard/substation. Included is the drilling of the first of two grounding wells near the new A-9 substation. Transfer of electrical loads from A-7 substation to the new A-9 yard/substation is scheduled with Bonneville Power Administration for mid-February.

Water Project: Operational testing of the microfiltration unit has been delayed to early January to correct instrumentation issues. Redesign of the building's fire sprinkler systems, fire alarm system, interior fire wall construction, and fire tank instrumentation are complete with installation continuing.

Base**Facilities**

- 105KE Reactor Disposition Engineering Evaluation/Cost Analysis (EE/CA), Draft A, is released for public comment. The 60% design review was conducted in November for the 105KE Reactor Core Removal Project as requested by RL.
- Continued demolition preparation for the 110KW Gas Storage Facility
- Continued deactivation of the 115KW Gas Recirculation Building and 117KW Exhaust Air Filter Building
- Began below-grade demolition of the 1706KE Radiation Control Counting Laboratory. Continued planning for the 1706KER Water Studies Recirculation Building.
- Deactivation is on hold for four buildings which will be removed at the same time, they cannot be removed until after their occupants and contents are moved to other buildings and connex boxes. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed.

Waste Sites

- Sampling was performed at waste site 100-K-102 as the staining and associated contamination plume is uncovered
- Excavation at waste site 120-KW-1 continued this month. This waste site is a large excavation that includes waste sites 100-K-18, 100-K-34, and 120-KW-2. Due to the close proximity and required comingling of waste streams, the site is being excavated under one waste site name, specifically 120-KW-1.

RL-0042 Fast Flux Test Facility (FFTF) Closure

FFTF is being maintained in a low-cost S&M condition. The 400 Area water system continues to operate providing service to other occupants of the 400 Area and water for fire protection. Deficiencies identified during the annual surveillance performed in March are being worked to resolution as resources permit.

All scope within the FFTF Closure (RL-0042) project is base funded. There is no funding from ARRA.

KEY ACCOMPLISHMENTS

RL-0011 Nuclear Materials Stabilization and Disposition**11.02 Maintain Safe and Compliant PFP – Base**

- Ecology conducted a review of calendar year (CY)2009 documentation associated with the PFP Ecology approval orders under the AOP. No issues were identified during the inspection.

11.05 Disposition PFP Facility – Base**Plutonium Reclamation Facility (PRF)**

- Vacuuming of the 15 canyon floor pans and removal of the resulting residues was completed. A total of 133 poly-jars of waste were removed.
- Size reduction of the hard waste in the canyon was completed and 95% of the resulting waste was removed.
- Preparation of the maintenance glovebox and room for size reduction was completed.

- The mechanical isolation and decontamination of the canning, loading and charging gloveboxes was completed. Fixative was applied to the interior of the gloveboxes.
- Removal of the charging glovebox was initiated with the removal of the glovebox from the E-4 exhaust.
- The electrical modifications to repair the damaged wall and door to the Miscellaneous Treatment room were completed and removal of the closed loop cooling system was initiated.

11.05 Disposition PFP (234-5Z) Facility – ARRA

- In Remote Mechanical A (RMA) Line Room 235B, the team completed the removal of the first two sections of conveyor HA-28 and gloveboxes HA-21I and HA-22. These gloveboxes are on lift tables and are staged in Room 235B pending size reduction in Room 172. In addition, this team supported the initial use of the Aspigel® chemical decontamination method on a glovebox at PFP.
- In RMA Line Room 232, the chemical decontamination of glovebox HA-46 was started
- In RMC Line Room 230C, glovebox HC-230C-3 was separated into two sections and removed from the room. Work was also started on the external mechanical isolation and internal equipment size reduction and removal for conveyors HC-3 and HC-4.
- In the RADTU area, Room 235D, the D&D team removed GB100A and verified via NDA that enough internal process equipment had been removed from GB200 to determine that the low level waste criteria has been met

Analytical Laboratory

- The six Room 139 gloveboxes have been removed and set aside for future size reduction and packaging as transuranic (TRU) waste
- The Room 144-1,2,3,4 and 144-9 gloveboxes have been decontaminated, internal fixative applied, and removed from Room 144. This completes glovebox removal activities for Room 144. The 144-9 and the 144-1,2 gloveboxes were decontaminated to LLW levels and will be shipped to the ERDF as Surface-Contaminated Objects (SCO). The 144-3 and 4 gloveboxes did not meet LLW criteria after decontamination, and are being set aside for future size reduction and disposal as TRU waste.
- The 143-1,2,3,4 and 143-5 gloveboxes were decontaminated and fixative applied. The 143-1,2 gloveboxes were separated from their E4 connection and removed from the room. The 143-5 glovebox was also separated from its E4 connection and will be removed along with 143-3,4 at a later date. All five gloveboxes will have NDA performed to determine if they meet LLW criteria.

Plutonium Process Support Laboratories (PPSL)

- The 179-5 glovebox was removed from PPSL and was turned over to the PFP Waste Operations organization for disposal as LLW

Disposition PFP (234-5Z) Facility

- Process Vacuum Piping Removal is 11% complete
- A total of 345 feet of Chemical Piping Transfer Line has been removed
- Removed 434 feet of asbestos-containing materials on piping

242Z Americium Recovery Facility

- The Hazard Review Board successfully completed a review of the work package for the fire system electrical isolation
- The reference leg for the control and tank room differential pressure gauges was relocated outside the corridor to true atmosphere. New readings were taken to support the Shift Operating Instruction (SOI) with door configurations requested by DOE.

2736Z/ZB Vault Complex

- Glovebox 642C was removed from the 2736ZB complex
- The 2736Z/ZB complex was declared criticality incredible

RL-0012 Spent Nuclear Fuel Stabilization and Disposition**Sludge Treatment Project (STP)**

- CSER 10-007, Criticality Safety Evaluation for the Onsite Transportation of the K Basin Container Sludge in the Sludge Transport System, was issued and provided to DOE- Safety and Environmental Division (SED). The Criticality Safety Evaluation Report (CSER) concluded that under both normal and upset conditions of transport, the K Basin Container K_{eff} remained under the Transportation Safety Document (TSD) threshold of 0.95. The results of the CSER will provide the justification for increasing the Fuel-Special Packaging Authorization (F-SPA) fissile gram equivalent (FGE) limit for the transport of an Engineered Container (EC) sludge populations in the Sludge Transport System (STS). Currently, the F-SPA limit of 1200 FGE per shipment is the most restrictive of all the F-SPA limits.
- A multi-canister overpack (MCO) material storage management assessment kicked off this week in support of the KOP subproject and 100K scrap fuel shipments. Items inspected included MCO shield plugs, cover caps, Mark 1A scrap baskets, process tubes, flex seals, and low pressure sending units used for monitoring MCOs. Remaining items to be inspected include eight MCO shells, two shield plugs and one large crate identified as small parts. In addition, 52 Mark 1A scrap baskets were inspected. Data collected identified the need to procure additional process tubes, low pressure sending units and valve seals.
- The sample digests for the U-metal and U-speciation were initiated this week for the settler sludge material. U-metal digestions are planned for next week and U-metal samples will be ready to analyze by inductively coupled (Argon) plasma (ICP) the first week of January.
- With the issuance of the Thermal and Gas Analysis for KE Container Sludge in the STS Cask this week, AFS has delivered all the evaluations required to develop the F-SPA Checklist for the K East containerized sludge sub-population. The analysis results conclude that the design threshold of 80 (Pound Per Square Inch Gauge) psig will not be exceeded during the transport of the K East sludge in the STS/Sludge Transfer Storage Cask (STSC). These results will be added to the draft F-SPA Checklist for the K East sludge that will be released for internal review the last week of December.
- Field activities supporting the management assessment for MCO material storage were completed this week. The Project is evaluating collected information and will identify the hardware that must be procured prior to execution of the Legacy Fuel and KOP Disposition campaigns. This assessment is scheduled to be released by December 30, 2010.

RL-0013 Waste and Fuels Management Project

ARRA

13.01 Project Management

- Completed weekly and monthly ARRA reporting
- Continued Project Management support for high priority projects
- Continued work on a “middleware” utility to provide an accessible, user friendly, and comprehensive interface for waste inventory, forecast, and reporting data

13.04 Mixed Low Level Waste (MLLW) Treatment

- Transferred 52 High Temperature Gas Reactor (HTGR) containers from the CWC to the Mixed-Waste Disposal Units for macroencapsulation.
- Continued to ship TRU-Project and Waste Retrieval Project M/LLW dropouts offsite for treatment.

13.05 TRU Retrieval

- Shipped two 3A Trench 8 containers to CWC (6.3 m³)
- Excavated and removed last three 3A Trench 8 containers
- Excavated, reinforced, pre-assembled shoring box and readied 3A Trench 17 Box 13 (54.4 m³) for removal
- Removed and assayed 3A Trench 17 Box 16 (17.3 m³)
- Assayed 19 containers removed from 3A Trench 8 and 17
- Completed forklift access ramp to west end of Trench 17
- Began overburden removal in 4B Trench 11
- Next Generation Retrieval (NGR)
 - Completed the Trench Face Retrieval and Characterization System (TFRCS) procedures and training in support of 218-E-12B start up
 - Declared readiness for the TFRCS Contractor Readiness Assessment

13.06 Transuranic (TRU) Repackaging

- Processed 18 parent drums
- Created 35 offspring drums
- Generated two drums from glovebag change outs
- Vented 56 drums in 2706-T Building
- Z-9 Repack Campaign
 - Beryllium sample results returned for all three Permacons with no detectible beryllium. The Beryllium Controlled Areas (BCAs) were cleared. New transition chutes and glovebags were installed in Permacon 1 & 2B. Processing was recommenced however it had to be halted after several transition sleeve breaches.
- RH/Large Package Repackaging
 - Directly supported the shipment of three TRUM gloveboxes out of the PFP to PFNW for size reduction and repackaging
 - Size reduction of large-container TRU/M waste packages shipped from CWC:
 - 243m³ shipped to date
 - 152 m³ size-reduced and repackaged to date
 - Initiated NDA of the repacked drums and boxes at PFNW
 - 15 m³ confirmed M/LLW to date

13.07 Waste Receiving and Processing Facility (WRAP)

- Nondestructive examination (NDE): 309 drums (233 for CCP)
- NDA: 454 drums (299 for CCP)
- Received 41 TRU drums and 12 SWB from Plutonium Finishing Plant (PFP)
- Staffed swing shift in preparation to resume TRUPACT II shipments
- Supported CCP Super High Efficiency Neutron Counter (HENC) calibration verifications and confirmations
- Completed the change out of two degraded TRU Glovebox windows
- Completed preparation for Repack Management Self Assessment (MSA)
- Resumed characterization of Type E waste drums
- Completed a successful full-up Operations drill

13.15 TRU Disposition

- TRU Waste Shipment to Idaho: Current Month total – 21, total to date – 59
- Shipments to WIPP: Current Month total – zero, total to date – 60
- Completed LLBG 12-B source shipments
- Completed Justification for Continued Operation (JCO) training for Drum Lid Release.
- Remote Handled Program (RH)
 - Received contract direction to ship RH-TRU waste
 - Initiated Project Execution Plan (PEP), walk downs and revisions to MOAs and Interface Agreements

Base**13.02 Capsule Storage & Disposition**

- Waste Encapsulation and Storage Facility (WESF)
- Continued installing fall protection anchors/wall support brackets on upper roof
- WESF K1 & K3 Heating, Ventilation, and Air Conditioning Upgrades
 - Approved and released Functional Design Criteria
 - Initiated Conceptual Design Report
 - Met with Department of Health to review upcoming Notice of Construction (NOC) application (no issues were noted)
 - Initiated soot loading calculations (project will further evaluate need for deluge system)
 - Initiated change proposal preparation

13.03 Canister Storage Building

- Completed implementation of CSB Safety Analysis Report annual update
- Completed CSB quarterly stack calibrations/tests
- Completed the 5 year heating, ventilation, and air conditioning duct and structural inspection
- Completed 6-month MHM wire rope inspection

13.07 Waste Receiving and Processing Facility (WRAP)

- Maintained the facility in a safe and compliant condition

13.08 T Plant

- Received 1 container to T Plant
- Shipped 1 ERDF roll-off box
- Received 1 ERDF roll-off box
- Beryllium Program

- 92% of T Plant Operations and 69% of T Plant RadCon personnel are now cleared Beryllium Workers

13.08 Central Waste Complex (CWC)

- Shipped five offsite shipments, 20 containers
- Shipped six on-site transfers, 208 containers
- Received 12 on-site transfers, 302 containers
- Received two offsite shipments, 11 containers
- Top Hat Box: Provided comments to Transportation Safety for revision of CE-SPA for shipment of three identified boxes to PFNW. Revision to CE-SPA was required due to initial CE-SPA specifying a trailer that is a Radiological Controlled Vehicle (RCV), which is restricted from offsite shipments.
- Box Assay: A total of 26 containers were assayed at the Central Waste Complex during this reporting period
- Sodium Drums: Overpacked 34 sodium drums and prepared for shipment
- High Temperature Gas Reactor (HTGR): Void filled 52 of 60 HTGR containers. Void filled containers were shipped to Mixed Waste Trench 34.
- Remote Handled TRU (RH-TRU) support: Work Team walked down the locations of 33 RH-TRU containers identified for shipment to WIPP. Radiological surveys were performed to confirm dose rates and general hot spot locations.
- Off-loaded two Hopewell shipping casks containing filters from Washington Closure
- Fire Systems: Supported Fire Systems preventive maintenance packages
- Completed stored waste container inventory in the CWC and reconciled all discrepancies with Solid Waste Information Tracking System (SWITS)

13.11 Liquid Effluent Facilities (LEF)

- Received 76 tankers (54K gallons)
- Treated effluent to State-Approved Land Disposal Site: 1M gallons; (CY 18M gallons)
- 200A Treated Effluent Disposal Facility (TEDF) discharged 1.5M gallons; (CY 310M gallons)
- Received ERDF leachate (204K gallons) at Liquid Effluent Retention Facility (LERF) Basin 44
- Continued operating the 300 Area Retention Transfer System (25 batches/841 gallons)
- Shipped 40 powder drums to the ERDF
- Received 5 drums of Vadose Zone condensate wastewater
- Received 11 drums of Waste Sampling and Characterization Facility wastewater
- Continued with Basin 43 Processing Campaign (processed .8M gallons)

13.12 Integrated Disposal Facility

- Completed all required inspections at the Integrated Disposal Facility

13.16 Off Site Spent Nuclear Fuel (SNF) Disposition

- Slightly Irradiated Fuel (SIF) Container Restraint System
 - Completed construction for Project W-105, Interim Storage Cask Pad #3 (or Container Restraint System)

13.21 Mixed Waste Disposal Trenches

- Received 22 offsite shipments, 202 containers
- Received two on-site shipments, 52 containers (52 HTGR containers)
- Shipped two leachate tanker to Effluent Treatment Facility (ETF)

RL-0030 Soil and Groundwater Remediation**ARRA - GW CAPITAL ASSET**

Drilling	December		Cumulative	
	Planned	Completed	Planned	Completed
M-24 -5 wells	0	0	5	5
200-ZP-1 West P&T Expansion -17 wells	1	0	16	15
Drilling Total	0	0	21	20

EPC Projects in Support of S&GRP - ARRA

- 200 West Area Groundwater Treatment Facility –Structural steel erection has been initiated at all seven buildings (seventh building is S/SX which is base funded). Crews have placed approximately 83% of the containment slab on grade at all seven buildings.
- 100-DX Groundwater Treatment Facility - Completed Acceptance Test Plan (ATP) and turnover of the facility to SGW Operations
- 200E Unsecured Core Complex – S&GW2 – Final walkdown performed, building turn-over complete

EPC Projects in Support of S&GRP – Base

- 200 West Area Groundwater Treatment Facility –S/SX transfer building site is under construction with the initiation of steel erection
- 100-HX Groundwater Treatment Facility - Process Building overhead door installations completed. Completed concrete pour of footings and stem walls for the H1 Transfer Building. Completed acid etch of H0 floor. Twenty four of twenty seven (88%) road crossings are complete. The remaining road crossings will be constructed in the spring. HDPE pipe laying and bonding is 65% complete.

ARRA - GW OPERATIONS**Well Drilling and Decommissioning – ARRA**

	December		Cumulative	
	Planned	Completed	Planned	Completed
KR-4 RPO – 4 wells	1	0	3	0
KR-4 RI/FS – 13 wells	1	1	11	7
100-NR-2 Barrier Emplacement – 171 wells	0	0	171	171
100-NR-2 RI/FS – 8 wells	1	0	4	0
100-HR-3 Bioremediation TT – 4 wells	1	0	1	0
100-HR-3 H Area RPO – 40 wells	0	0	40	37
100-HR-3 D Area RPO – 30 wells	0	0	30	30
100-HR-3 RI/FS – 15 wells	3	2	5	6
200-BP-5 “K” Well – 1 well	0	0	1	1
200-BP-5 “L” and “M” Well – 2 wells	0	0	2	2
100-BC-5 RI/FS – 6 wells	1	0	11	6
100-FR-3 – 3 wells	0	1	3	3
300 FF-5 RI/FS – 11 wells	2	4	6	8
Drilling Total	10	8	288	271
Decommissioning Total	14	10	213	186

BASE - GW OPERATIONS

Environmental Strategic Planning:

- Supported the December 8, 2010 Senior Executive Committee (SEC) meeting

Integration Management:

- Completed technical meetings with RL to resolve methods and approached for addressing the following issues in River Corridor RI/FS evaluations: human health and ecological preliminary remediation goals (PRGs), the method for addressing remediated and unremediated (“to go”) waste sites, and modeling codes and applications
- Led an integrated DOE RL/CHPRC/WCH Senior Management kickoff meeting that focused on understanding and resolving technical issues that develop at the interface between the contractors, DOE, RL-0030 and RL-0041. The team will meet monthly and focus on issue resolution in order to meet the multiple River Corridor deadlines in 2011.
- Completed approval of the Hanford Environmental Data Integration Administrative Interface Agreement that defines the roles and responsibilities of prime contractors with regard to the Hanford site-wide data

Risk and Modeling Integration Group:

- Completed the FY2010 Composite Analysis, Integrated Disposal Facility (IDF), and Low-Level Burial Ground performance assessment annual updates

River Corridor

100-BC-5 Operable Unit - Base

- Completion of well C7784 was initiated, although problems with the well construction have delayed progress. Drilling and sampling activities concluded at RI/FS well C7783, with the borehole having advanced to a total depth of 193.8 ft below ground surface (bgs). Drilling was initiated at well C7787, but an obstruction was encountered that prevented the borehole from advancing past approximately 6 ft bgs. The borehole was decommissioned, and drilling of the replacement well C8244 was initiated within 5 ft of the original location.
- The decisional draft of the document proposing expedited remedial actions to be implemented for meeting TPA Target Date M-016-110-T01 was reviewed by RL, and the resulting comments were resolved. The document is being updated to a Draft A for future regulatory review. The associated Action Memorandum was also drafted and underwent internal review

100-KR-4 Operable Unit - Base

- Completed construction walk down for KR-4 PLC upgrades and well head modifications. Power restored to KR-4 treatment and transfer buildings to initiate acceptance testing.
- Completed KR-4 transfer building #1 modifications for Phase 3 realignment to add two new future extraction wells (to be drilled) to the KR-4 P&T system
- RI/FS drilling and sampling continued with eight of thirteen wells completed

100-NR-2 Operable Unit - Base

- Collection of upwelling (river-porewater) samples from the bottom of the Columbia River along the 100-N shoreline was completed with all of the 13 planned locations sampled as planned in the associated NR-2 River Porewater Sampling Analysis Plan (SAP)
- The second round of spatial-and-temporal groundwater well sampling was completed with all of the 26 wells now sampled

- The third round of aquifer tube sampling planned under TPA-CN-353 was completed. This concludes the sampling requirements for this TPA CN (as also planned in the proposed 100-N RI/FS SAP). The associated analysis continues, and the analytical results will be included in the 100-N RI/FS Report.
- The revision to the NR-1/2 OU Interim Action Remedial Design/Remedial Action (RD/RA) Work Plan continued. An internal team review of the document was completed, and a full internal review began on December 30, 2010.
- To expedite the 100-N RI/FS well drilling work, the associated 100-N RI/FS SAP was finalized to a Rev. 0 to include the currently identified remedial-investigation activities prior to final approval of the work plan addendum. All Ecology comments were resolved, and the Rev. 0 SAP was released and approved by RL and Ecology on December 30, 2011.

100-HR-3 Operable Unit - Base

- The new DX pump-and-treat system was transitioned to operations in mid-December, completing TPA milestone M-16-111B, which required the HR-3 Operable Unit treatment capacity to reach 500 gpm
- DR-5 and HR-3 operated at normal capacity (~35 gpm and 200 gpm, respectively). The DR-5 system is being readied for shutdown and realignment of its wells to the DX pump-and-treat system.
- RI/FS well drilling and sampling continued with seven of fifteen wells completed
- RI/FS borehole drilling and sampling continued with two of ten boreholes completed
- RI/FS test pit installations continued with two of five test pits completed
- All RI/FS aquifer tube sampling was completed

300-FF-5 Operable Unit - Base

- Testing and evaluation of alternative infiltration sites has concluded. Two additional candidate sites for infiltration and shear-thinning fluid injection were selected based on geophysical modeling and field tests have been performed to evaluate surface conditions prior to a drilling campaign to install test monitoring wells.
- RI/FS drilling and sampling continued with nine of sixteen wells completed

100-FR-3 Operable Unit - Base

- Preparations are complete for the collection of additional upwelling (river-porewater) sampling under approved TPA-CN-391 to support the RI/FS efforts and the EE/CA evaluations
- Drilling and sampling concluded at RI/FS well C7791, with the borehole having advanced to a total depth of 116 ft bgs. The well was subsequently completed. As a result, all of the 3 RI/FS wells are now complete which satisfies the characterization well drilling and sampling requirements for the 100-F and IU-2/6 RI/FS SAP. The third round of spatial-and-temporal groundwater well sampling was completed for IU-2/6 OUs, and as a result, all of the IU-2/6 wells have now been sampled. This satisfies all of the spatial-and-temporal groundwater sampling requirements for the 100-F and IU-2/6 RI/FS SAP.
- The decisional draft of the document proposing expedited remedial actions to be implemented for meeting TPA Target Date M-016-110-T01 was reviewed by RL, and the resulting comments were resolved.

Central Plateau

200-BP-5 Operable Unit – Base

- Completed a redline of the Draft A 200-BP-5 Treatability Test Plan incorporating regulator comments the week of December 20, 2010 for a final DOE/regulator check. The locations of the planned extraction well and monitoring well were staked with DOE participation.

200-UP-1 Operable Unit – Base

- Completed 100% design for the S-SX extraction system. Completed placement of structural fill and initiated concrete work for the S-SX transfer building.
- Transmitted a Decisional Draft SAP for S/SX extraction and monitoring wells to DOE for review/approval on December 21, 2010. The SAP included integrated deep vadose zone and tank farm characterization needs.

200-ZP-1 Operable Unit - Base

- Nine of fourteen groundwater extraction wells are online pumping water at 405 gpm. Extraction well #5 is being kept offline due to low flow. Extraction wells 10 and 13 are offline due to low water levels. Extraction wells #4 and #7 are offline for repairs.
- The draft activated carbon report is with RL for review. Comments are due back January 14, 2011.
- Completed the drilling and sampling for 20 of 24 wells needed for the first phase of operation for the 200 West Treatment Facility. Injection well IW-4 recently reached total depth at 519 ft.

Deep Vadose Zone - Base

- Completed the second scoping session on December 7, 2010, with Ecology and EPA for the 200-DV-1 OU.
- Provided the draft Public Involvement Plan for the Deep Vadose Zone OU to DOE Communications and held a kickoff meeting for the up-coming public involvement activities associated with technology screening.

RL-0040 Nuclear Facility D&D, Remainder of Hanford

ARRA – U Plant/Other D&D

U Plant Regional Closure Zone (U Ancillary Facilities D&D)

- Site survey, equipment decontamination, and stabilization in progress

U Canyon Demolition and Cell 30 Disposition

- Core drilling activities continue. Grout conveyance equipment has begun to arrive on site. Received the cask for D-10 this month.

200E Project

- Completed asbestos abatement activities in 284E Powerhouse. Final cleanup and demobilization is ongoing,

209E Project

- Continued 209E characterization and cold and dark planning activities
- Continued NDA activities on tanks and pipes within the facility. Continued internal inspection of tanks to verify the tanks are dry for removal activities.

- Continued prep activities and equipment removal on HO-200 for dismantling. Began removal of Tank 108. Began transition of the facility to temporary power to facilitate the isolation of systems and minimize the hazards associated with removal activities.
- Began electrical isolation of equipment in CAR

200W Project

- Continued characterization and cold and dark activities
- Completed demolition activities of 284WB Package Boiler Plant and Diesel Tank
- Began exterior steam line abatement at 284W in preparation for explosive demolition
- Began Bio-Hazard remediation and wash down at 284W

ARRA – OUTER ZONE D&D

BC Controlled Area Waste Site Remediation

- Remediation using super dump trucks continued with approximately 293,000 tons cumulative to date of soil removed and transferred to the ERDF)
- CERCLA survey measurements have been completed for the first portion of Zone A, approximately 50% of the area

200-CW-3 Waste Sites

- The remaining sites verification package documentation for waste site 216-N-4 and 216-N-6 is in review by RL and the regulators
- The remaining sites verification package for waste site 216-N-1 has been approved by RL with closure documentation forwarded to regulators for approval; CHPRC is resolving regulator comments

MG-1

- Reclassification/closure documentation for waste sites 200-E-110, UPR-600-21, 600-51, and 600-262 has been submitted for approval; CHPRC is incorporating regulatory agency comments
- Site 600-37 is a Confirmatory Sampling No Further Action (CSNFA) site with confirmatory sampling completed. Closure documentation has been prepared and RL comments incorporated; CHPRC is preparing the formal transmittal package.
- Waste site 600-275 post-excavation sample results indicated that further excavation was required; completion of excavation and hauling of debris is planned for January
- Excavation of pipeline 200-W-147-PL continued with approximately 5,600 tons cumulative transferred to ERDF
- Waste site 600-220 sampling has been completed and remove, treat, and dispose (RTD) action will be required.
- Waste site 600-226 verification sampling has been successfully completed and preparation of closure documentation is in progress.

ALE D&D

- Power pole removal is ongoing

NORTH SLOPE

- Continued with debris pile cleanup activities
- Completed Hanford Reserve National Monument (HRNM) Area 15

RAILCARS

- Remedial Action Work Plan (RAWP) and Sampling Analysis Plan submitted to EPA for review
- EE/CA approved
- Continued visual inspections and characterization of railcars
- Initiated work planning for future phases
- Initiated scope of work for lift and haul of the rail cars
- Continued to work with RL on transfer of four rail cars to B Reactor

Base

- Excavation of 600-38 is complete and clean backfill is being staged. The closure documentation is in review with RL and the regulators.
- Excavation of pipeline 600-286-PL was completed. Verification sampling was performed in December and completion of remediation was verified.
- Excavation of pipeline 600-287-PL completed in December with approximately 8,500 tons cumulative removed and transported to ERDF. Verification sampling was performed in December and completion of remediation was verified.
- Excavation of previously failed CSNFA waste site 600-222 was initiated in October. Sampling in November identified further contamination and the area was further excavated. Approximately 389 tons of soil (cumulative) have been removed and transported to ERDF. Following successful verification sampling in December, closure documentation was submitted to RL and the regulators for review.
- Beryllium sampling/characterization continued in REDOX, 231Z and 222T
- Began planning of 6652PH equipment removal activities

RL-0041 Nuclear Facility D&D, River Corridor

ARRA

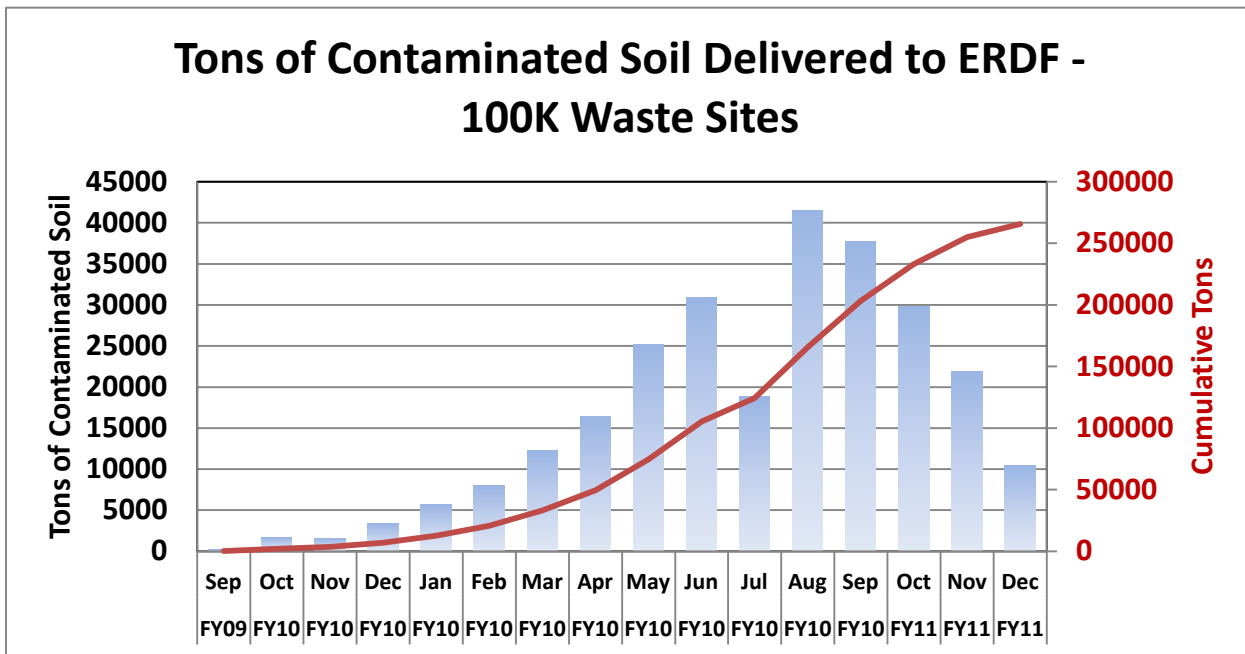
Facilities

- Resolving comments from the 105KE Reactor Core Removal preliminary design review
- 105KE Reactor completed demolition of the discharge chute and is continuing on the west side of the reactor building
- The 115KE Gas Recirculation Building below-grade demolition was initiated by Waste Site Remediation's subcontractor and should finish in late January
- The 117KE Exhaust Air Filter Building below-grade demolition will begin in February, after the 115KE facility is removed
- Deactivation is being performed as a mega-package affecting 183.1KE Head House, 183.7KE Tunnel, 181KE River Pump House/1605KE Guard Shack, and 190KE/190KW Main Pump Houses. Deactivation is on hold but should complete in mid-March after major electrical and water system upgrades are completed in mid-February. Characterization sampling of the 181KE River Pump House/1605KE Guard House should complete in late January. Demolition planning for procuring a river silt barrier and stockpiling rip-rap to backfill during demolition are in process so everything is ready for demolition once the facility is deactivated.
- Characterization sampling of the 183.1KE Head House was completed in mid-December with the final report being issued in mid-January

- Demolition load-out of the stockpiled 183.2KW Sedimentation Basin debris is being planned. A contract was issued to create the haul road at U Plant and prepare a U Plant stock-pile area for receipt of this rubble by the middle of January. Another contract is in place to haul the clean rubble to U Plant, then stop off and bring clean dirt back from ERDF which will be used for backfill at 100K.
- The only remaining glycol is in the 165KE Power Control Building glycol lines which will be drained after the 165KE boiler room asbestos removal is completed
- The 183.4KW and 183.4KE Clear Well deactivation was placed on hold, as part of the mega-package awaiting mid-February utility upgrades. The 183.2KE Sedimentation Basin and both clear wells will continue to supply fire protection water until after major electrical and water system upgrades are completed in mid-February. The basins and clear wells must be drained prior to below-grade demolition of 182K Emergency Water Reservoir Pump House (detailed in base workscope below). This narrow window of opportunity is being carefully planned.
- Asbestos removal is on hold in the 190KE Main Pump House; below-grade asbestos was removed in prior months. Building occupants should be moved out by late January, allowing above-grade asbestos removal to resume and complete in early March. Accelerating asbestos removal will streamline progression to demolition once the mega-deactivation is completed in late January.

Waste Sites

Work progressed somewhat slower than expected for the month of December. Weather delays were caused by wind and snow during the month. The monthly total for December was somewhat diminished from recent months but still above plan.



HVAC Project

- Performed successful systems testing under full operation

Electrical Project

- Began working closeout activities required for transitioning from A-7 yard to A-9 yard/substation. Completed grounding grid evaluation on the A-9 switch yard

Water Project

- Obtained subcontractor fire protection engineering support to resolve outstanding fire protection issues
- Successfully reworking and correcting issues with fire protection design and installation

Other

- Completed sludge vacuuming in the K West Basin, and continued to video and review for found fuel in the East Bay of the K West Basin. The Final Debris Campaign was placed on hold awaiting the completion of sludge sampling from containers 210 and 230.

Base

Facilities

- 116KW Reactor Exhaust Stack is on hold. This facility has a slight risk of falling onto the 105KW Basin, thus was deferred from FY2010. The waste site under this facility is related to a 2012 TPA milestone. Negotiations are under way on the TPA milestone, after which time the 116KW facility demolition will be re-scheduled after completion of the 105KE Basin work.
- 110KW Gas Storage Facility demolition will be performed on the tanks in February, with the balance of the building removed with 115KW. The adjacent rail car offload station will be removed as part of this facility's cleanup.
- The 115KW Gas Recirculation Building additional hard-to-detect sampling is scheduled for January after scaffold is erected. Electrical isolation is planned in mid-January. Asbestos removal was begun and should complete in March.
- The 117KW Exhaust Air Filter Building electrical isolation is planned in January. Above-grade demolition is planned to start in February.
- The 119KW Exhaust Air Sampling Building electrical isolation should complete in January.
- The 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building substructures have been turned over to Waste Site Remediation's subcontractor for removal with their adjacent waste sites. 1706KE below-grade demolition began in December after which the crew will move to 1706KER below-grade demolition.
- After the utilities upgrades finish in mid-February, a group of facilities will be deactivated as part of a "mega-package" approach. Their initial characterization walk downs have been performed, and characterization sampling finished in September. These facilities are 105KE/KW Tunnels, 1506K1 Fiber Optics Computer Hut, 165KE/KW Power Control Buildings, 166AKE Oil Storage Facility, 166KE/166KW Oil Storage Vaults, 167K Cross-Tie Tunnel and Building, 1705KE Effluent Water Treatment Pilot Plant, 181KW River Pump House/1605KW Guard House on 181KW, 183.2KE Sedimentation Basin, 183.3KE Filter Basin, 183.5KE/183.6KE Lime Feeder Buildings, and 185K Potable Water Treatment Plant. The 1908K Outfall and 1908KE Effluent Monitoring Station were added to this scope, which is accelerated from FY2012. The 151K Electrical Substation was also added, which is accelerated from FY2013. Once the en-mass deactivation occurs, the demolitions will be performed on a staggered schedule.

- Deactivation has been placed on hold for four buildings which will be removed at one time after the utility upgrades occur in mid-February. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed. Fifteen Connex boxes, two tents, and a new tool crib mobile office have been procured to replace the storage capacity and a new array of K West mobile offices were built for current K West Operations support personnel and for future occupants needed to support the Sludge Treatment Project in out-years.
- Demolition is on hold for the 182K Water Reservoir Pump House. The below-grade water reservoir connects directly to the 183.4KE clear well, which provides the service water/fire protection water for 100K. The shut-off valves between these two facilities leak, thus below-grade demolition cannot commence until the new utility systems are operational this winter and the 183.4KE clear well water and 183.2KE sedimentation basins are drained.
- The 183KE Chlorine Vault is awaiting demolition. Operations will continue to utilize the building until after the utility upgrades in mid-February, after which time occupants will be re-located and demolition should commence.
- Leased facility MO872, Radiation Control Trailer, is being re-installed in its new location. The electrical power should be installed in mid January. A worker change trailer and separate shower trailer are being installed at the same time, planned in late January.

Waste Sites

- Excavation of 100-K-63 is suspended waiting on data analyses to determine if the site currently meets the Remedial Action Goal of the Record of Decision (ROD)
- Closure work on 118-KE-2 and 118-KW-2 was initiated as D4 has completed removal of the sites

MAJOR ISSUES

RL-0011 Nuclear Materials Stabilization and Disposition of PFP

None at this time.

RL-0013 Waste and Fuels Management Project

Issue – Avoid falling behind recovery plan to retrieve 2,500 m³ by September 30, 2011.

Corrective Action – Establish FY2011 volume recovery forecast by November, 2010.

Status – Achieved Recovery Plan volume as of September 30, 2010 (889 m³ removed, 757m³ shipped). Recovery schedule supports Tri-Party Agreement milestone of 2,000 m³ by September 30, 2011. Implemented FY2011 volume recovery plan.

Issue – Approval of CCP Certification Program by Carlsbad Field Office (CBFO) could result in day-for-day slip on scheduled February shipments to WIPP.

Corrective Action – CCP is evaluating additional certification staff to mitigate delay and CBFO and U.S. Environmental Protection Agency (EPA) continuing to work on resolution of final report.

Status –EPA approval letter at EPA Director's level, awaiting signature.

RL-0030 Soil and Groundwater Remediation

Issue – There are several examples of extended comment review on CERCLA documents; the most significant being 200-PO-1 RI Report and 100-N RI/FS Work Plan Addendum and SAP. The issues on these documents are different, 100-N the review period has extended 6 months, and after each review, additional comments are received. With the PO-1 documentation, 2 review extensions were requested and comments (draft) were not given until recently, but this has also stretched into a 6-month effort.

Corrective Actions – Timelines and back-up information on these two specific documents has been prepared and given to RL. It was suggested that this be a final topic at the SEC; however, it was determined that discussion would be initiated offline.

Status – CHPRC continues to work the parties involved to facilitate timely comment resolution; however, schedule variance and cost impacts are evident on both projects.

RL-0040 Nuclear Facility D&D, Remainder of Hanford

None at this time.

RL-0041 Nuclear Facility D&D, River Corridor

Issue – Extent and severity of contamination in the UPR-100-K-1/100-K-42 waste site footprint and D4 demolition area is much higher than planned in the baseline. The significance of this higher-than-anticipated contamination is the work must be conducted under Nuclear Hazard Category 3 controls, productivity will be at a diminished rate, and a larger volume of contaminated soil will need to be removed.

Corrective Action – Mitigation of the issue tied to higher-than-anticipated contamination levels has not been resolved to date. Corrective actions have included maximizing productivity by ensuring the containers are loaded to their maximum weight without exceeding legal load limits. This yields a higher ton-per-container average with some positive influence on the overall schedule.

Status – D4 removal of the 105KE discharge chute is complete but load out continues. Waste site work is on hold until the chute is removed.

Issue – 13 new sites have been discovered where radiological or chemical contaminants are above cleanup standards.

Corrective Action – The sites are being tracked and added to the appropriate lists (e.g., the 100 Areas RD/RA WP ESD, the CHPRC contract, etc.).

Status – The sites are being tracked and added to the appropriate lists (e.g., the 100 Areas RD/RA WP ESD, the CHPRC contract, etc.).

Issue – The remaining outages (electrical and water) will require significant integration with MSA and 100K Operations to minimize disruptions to existing activities.

Corrective Action – Established weekly meetings with MSA to coordinate outages and assure resources are available. Project Manager is coordinating with 100K Operations to determine best available outage times and define financial resource needs from MSA.

Status – An integrated schedule and MSA cost impacts are being developed to identify outages for electrical and water projects and provide time for MSA and 100K Operations to minimize impacts.

Issue – Activities required for cultural resources evaluation in the eastern flood plain are delaying the start of waste site 100-K-57.

Corrective Action – Pursue a partial release to begin work in unaffected areas of 100-K-57 while a Cultural Resources Review is conducted. Develop a Cultural Mitigation Action Plan acceptable to stakeholders in order to release the rest of the site.

Status - Analysis of artifacts is underway. A partial release is anticipated in December. The need for further mitigation has not yet been determined.

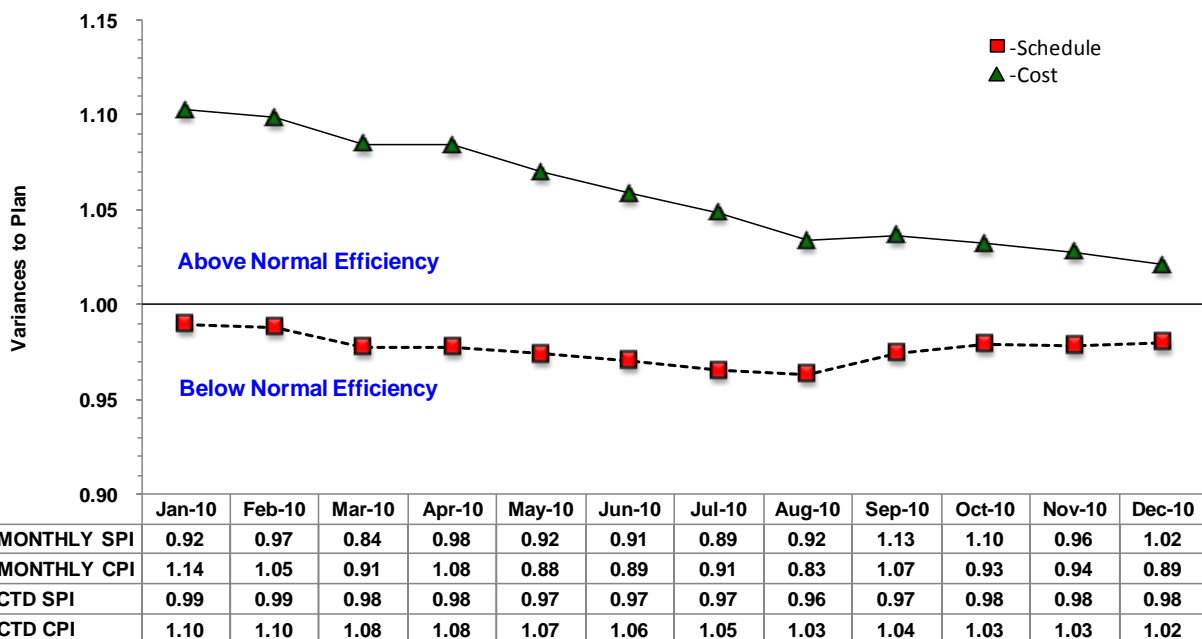
Issue – Change orders in the Power/Water/HVAC Projects have caused an increase in cost and schedule delays throughout the lifecycle of the Utilities Project. These change orders have been incurred due to design changes, additional material/equipment and labor, added subcontractor work scope (i.e., road improvements and debris removal), and unforeseen obstruction/underground utilities.

Corrective Action – Efficient evaluation, communication, and implementation of change orders/claims by Project Management and supporting staff to alleviate additional cost associated with implementing change orders/claims.

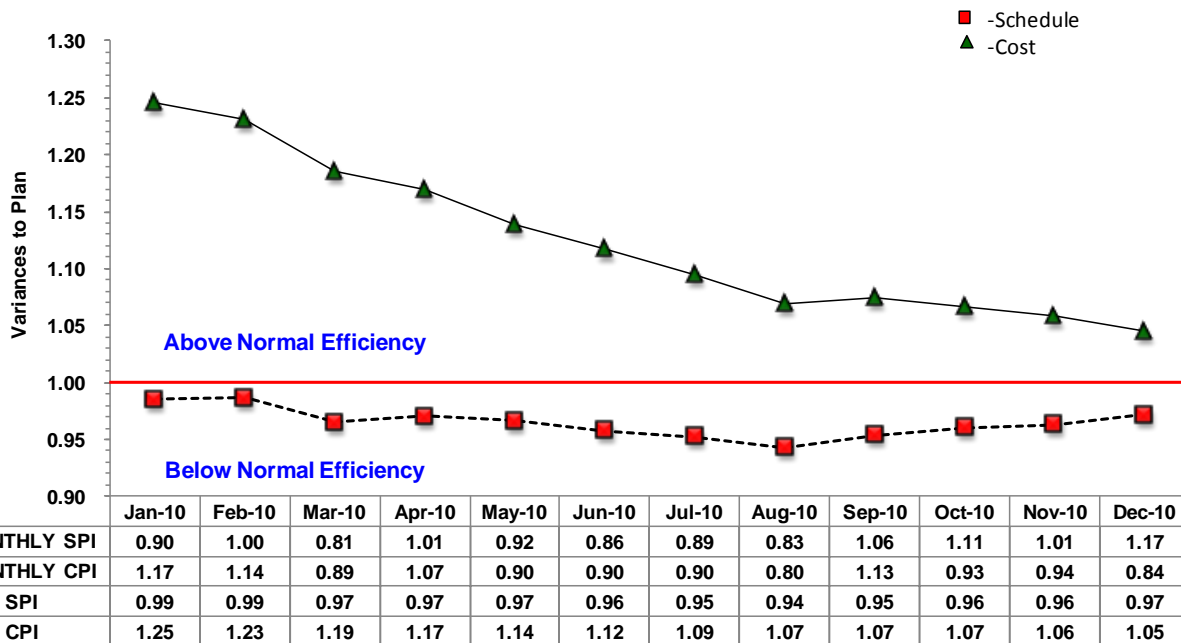
Status – Continuing communication between management, subcontractors and supporting staff to minimize schedule/cost impacts associated with change orders/claims. A BCR is being prepared.

EARNED VALUE MANAGEMENT

Schedule and Cost Performance - ARRA and Base (Rolling 12 Month View)



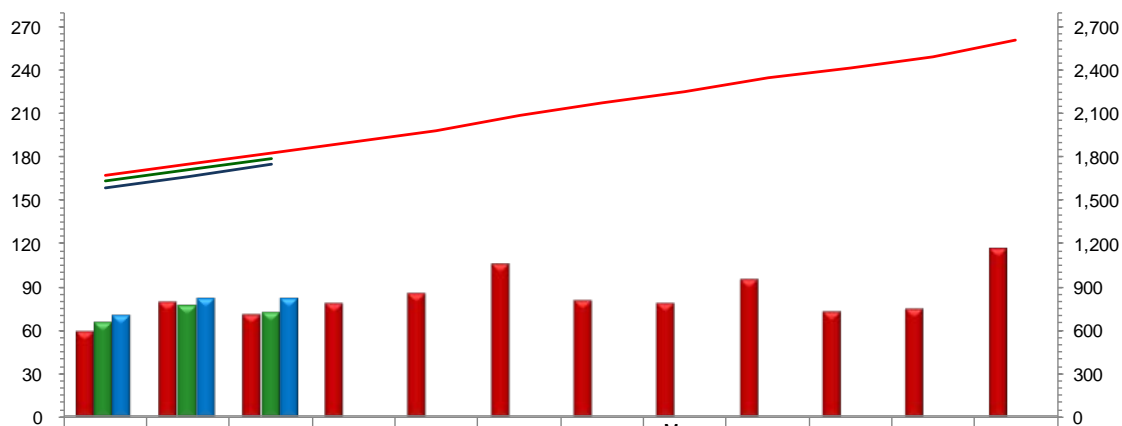
Schedule and Cost Performance - ARRA (Rolling 12 Month View)



Schedule and Cost Performance - ARRA and Base

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)

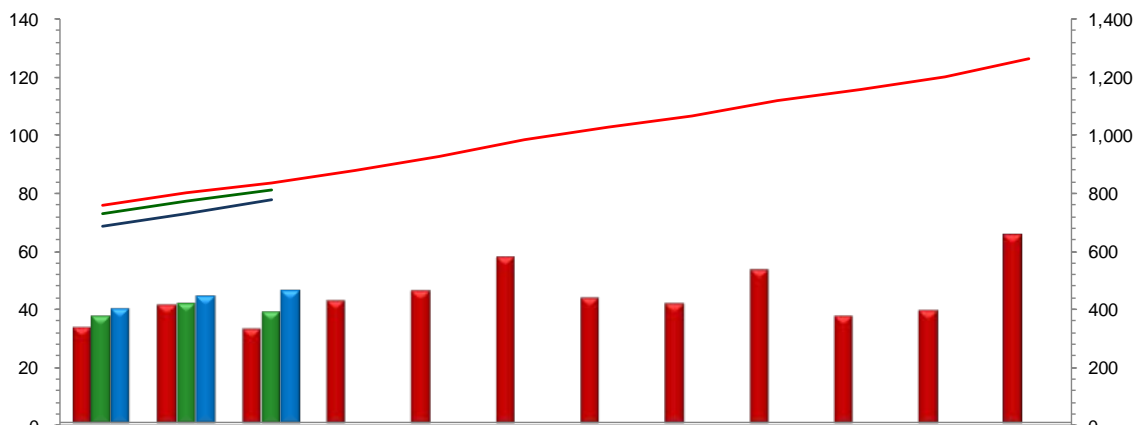


	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
MONTHLY BCWS	59.1	79.1	70.9	78.1	85.0	105.7	80.1	78.1	94.8	72.7	74.0	115.7
MONTHLY BCWP	65.0	76.2	72.0									
MONTHLY ACWP	69.7	80.9	81.2									
CUMULATIVE BCWS	1,672.6	1,751.7	1,822.6	1,900.7	1,985.8	2,091.5	2,171.5	2,249.7	2,344.5	2,417.2	2,491.2	2,606.9
CTD BCWP	1,637.3	1,713.5	1,785.4									
CTD ACWP	1,586.4	1,667.3	1,748.5									

Schedule and Cost Performance - ARRA

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)



	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
MONTHLY BCWS	33.6	41.4	33.3	42.8	46.1	57.7	44.0	42.0	53.3	37.8	39.5	65.5
MONTHLY BCWP	37.5	41.8	39.0									
MONTHLY ACWP	40.1	44.5	46.4									
CUMULATIVE BCWS	761.1	802.5	835.8	878.5	924.6	982.3	1,026.3	1,068.2	1,121.5	1,159.3	1,198.9	1,264.3
CTD ACWP	685.7	730.2	776.5									
CTD BCWP	731.1	772.9	811.9									

Performance Analysis – December

ARRA Performance by PBS (\$M)

	\$M				
	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	10.5	9.2	9.0	(1.2)	0.2
RL-0013 - MLLW Treatment	1.3	0.8	0.8	(0.5)	0.1
RL-0013 - TRU Waste	8.6	9.4	8.1	0.8	1.3
RL-0030 - GW Capital Asset	(0.1)	5.4	6.0	5.5	(0.7)
RL-0030 - GW Operations	2.2	4.1	5.2	1.9	(1.1)
RL-0040 - U Plant/Other D&D	5.1	5.4	7.7	0.2	(2.3)
RL-0040 - Outer Zone D&D	3.3	2.9	3.7	(0.4)	(0.8)
RL-0041 - 100K Area Remediation	2.5	1.8	5.8	(0.7)	(4.0)
Subtotal	33.3	39.0	46.4	5.7	(7.4)
Fee			2.8		
Total			49.2		

ARRA

The Current Month favorable Schedule Variance (+\$5.7M/17.1%) reflects:

- The RL-0030 positive variance (+\$7.4M) reflects the following subproject performance:
 - GW Capital Assets (+\$5.5M) – Is primarily due to the 200-ZP-1 Operable Unit (+\$5.7M) Implemented BCRA-R30-11-002R0 200 West Pump & Treat Construction Schedule Revision to more accurately report performance by incorporating the re-planning of 200 West Pump-and-Treat Facility as required based on the final design drawings. This BCRA did not change the overall budget but the FY2011 budget distribution by month did change resulting in the current month point adjustment.
 - GW Operations (+\$1.9M) – Is due to Ramp-up & Transition (+\$1.8M) where work was performed for activities planned in prior months.
- The RL-0013 positive variance (+\$0.4M) reflects the following subproject performance:
 - MLLW Treatment – Mixed Low Level Waste (MLLW) shipments delayed due to shipping documentation issues including external review of tie-down analysis (approved internally in December); partially offset by 435.1 compliance waste processing being achieved ahead of schedule.
 - TRU Waste (+\$0.8M) – TRU Characterization and Shipping adjusted characterization goals consistent with the National TRU Accelerated Plan, schedule recovery for TRUPACT II Loading Operations and CH Waste retrieval, as well as accelerated procurement of TRU Retrieval Standard Waste Boxes (SWB); partially offset by suspension of Trench Face Processing System

(TFPS), temporary suspension of T-Plant Repack operations to mitigate 216-Z9 drum rigid liner issues, and delayed WRAP Repack operations due to Beryllium issues.

- The RL-0011 negative variance (-\$1.2M) is primarily due to:
 - Glovebox removal delayed by difficulty associated with removing glovebox exhaust systems and shortage of D&D crew resources.
 - Delays in removing gloveboxes and pipe are impacting miscellaneous D&D of 234-5Z.
 - 242-Z team not released to start D&D work, pending resolution of Leak Path Factor issues regarding entry point.
- The RL-0041 negative variance (-\$0.7M) is due to the following:
 - Waste Sites (-\$1.1M) the negative schedule variance is attributed to point adjustments related to implementation of BCR-PRC-10-048R0 which moved all remaining scope to a new area-based WBS.
 - The 100K Area Project (Facilities and Others) (+\$0.4M) the positive schedule variance in 105KE Reactor (+\$1.1M) is due to continued performance on the 105KE Reactor Phase I Demolition offset by K West Deactivation (-\$0.7M) due to the final debris campaign being placed on hold awaiting completion of sludge sampling.
- Primary contributors to the RL-0040 negative variance (-\$0.2M) that exceed the reporting thresholds reflect the following subproject performance:
 - U Plant/Other D&D (+\$0.2M) is within reporting thresholds.
 - Outer Zone D&D (-\$0.4M) negative schedule variance is a result of delays with cultural reviews for North Slope (-\$0.2M) and characterization/surveys of rail cars disposition (-\$0.2M).

The Current Month unfavorable Cost Variance (-\$7.4M/-18.9%) reflects:

- The RL-0041 negative variance (-\$4.0M) is due to the following:
 - 100K Area Project (Facilities and Others) (-\$4.0M) – The negative cost variance in Utilities (-\$1.2) has two components: the electrical project mobile substation subcontract and the water project subcontract both of which have realized risks and scope growth. Facilities (-\$1.0M) is from the 183.2KW Sedimentation Basin debris lay-down yard/haul road costs being incurred; 115KE/117KE where below-grade planning costs occurred, but no BCWP can be taken until demolition actually starts; and cold-and-dark being planned but unable to complete until after mid-February utility upgrades occur. The 105KE Reactor (-\$1.1M) is due to continuing removal of the discharge chute (this scope will be added in a pending BCR). K West deactivation (-\$0.7M) is due to the final debris campaign being placed on hold thus no BCWP was earned.
- The RL-0040 negative variance (-\$3.1M) can be attributed to as follows:
 - U Plant/Other D&D (-\$2.3M) negative cost variance is primarily due to a manual accrual being processed for capital equipment along with the receipt of the actual invoice (-\$1.6M). In addition, 209E FY2010 work scope for hazard reduction is being worked in FY2011 (-\$0.4M) and U Ancillary final surveys continued (-\$0.4M), and there were minor variances outside the threshold (-\$0.1M).
 - Outer Zone D&D (-0.8M) unfavorable cost variance is primarily due to higher than planned costs for waste site sampling (-\$0.3M) and greater than planned costs for contractor excavation work on pipeline 200-W-147-PL (-\$0.2M). In D&D, the variance is due to ALE demobilization costs (-\$0.2M) and North Slope ecological/cultural reviews higher than planned (-\$0.1M).

- The primary contributors to the RL-0030 negative variance (-\$1.8M) that exceed reporting thresholds reflect the following subproject performance:
 - GW Operations (-\$1.1M) – This variance is primarily due to Ramp-up & Transition (-\$1.1M) fit out contract/cost for S&GW maintenance facilities being greater than planned. Other variances include: 1) 200-ZP-1 OU (+\$0.3M) cost for Startup/Testing planning and procedure development activities accumulated slower than planned in baseline for December; it is expected that this scope will be completed for less than budgeted and these underruns are being evaluated along with overruns in other areas of the project in evaluating overall project impact and EAC, overall construction project is forecast to complete on budget; 2) PBS RL-30 UBS, G&A, and DD (-\$0.3M).
 - GW Capital Asset (-\$0.7M) – This variance has two contributors: 1) 100 HR-3 Operable Unit (-\$0.4M) construction closeout and ATP activities for DX took longer and were more expensive than expected/planned. DX has now been turned over to operations, and 2) 200-ZP-1 OU (-\$0.5M) additional labor cost associated with the issuance of the IFC drawings. Project is reviewing staffing plan and evaluating processes to identify cost efficiencies.
- The RL-0013 positive variance (+\$1.4M) reflects the following subproject performance:
 - MLLW Treatment – Delay in the receipt of cost for LLW completions, partially offset by increased subcontractor costs for ETF Containment Berm Repairs without commensurate performance (project complete).
 - TRU Waste – Significant schedule recovery in TRU Characterization and Shipping without commensurate cost increase and lower allocations, partially offset by early cost realization for RH/Large Package Commercial Repack, costs incurred for Waste Database System Improvements without commensurate performance due to Level of Effort (LOE) earned value methodology, and increased labor for training and Site Prep for the Trench Face Retrieval and Characterization System (TFRCS).
- The RL-0011 positive variance (+\$0.2M) is within reporting thresholds.

Base Performance by PBS (\$M)

	\$M				
	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	3.7	3.5	3.4	(0.2)	0.1
RL-0012 - SNF Stabilization & Disp	6.4	6.1	6.3	(0.3)	(0.2)
RL-0013 - Solid Waste Stab & Disp	7.3	6.8	7.5	(0.5)	(0.8)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	13.2	12.2	13.2	(1.0)	(1.0)
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	1.7	1.8	1.4	0.1	0.4
RL-0041 - Nuc Fac D&D - RC Closure Proj	5.1	2.5	3.0	(2.6)	(0.5)
RL-0042 - Nuc Fac D&D - FFTF Proj	0.1	0.1	0.0	0.0	0.1
Subtotal	37.6	33.0	34.9	(4.6)	(1.9)
Fee			2.1		
Total			36.9		

Base

The Current Month unfavorable Schedule Variance (-\$4.6M/-12.3%) reflects:

- The RL-0041 negative variance (-\$2.6M) is due to the following:
 - Waste Sites (-\$2.5M) A large part of the schedule variance is due to work on many waste sites that was completed early with performance taken in prior months, primarily 100-K-63.
 - 100K Area Project (Facilities and Others) (-\$0.2M) The negative variance is primarily due to cold and dark activities being pushed into mid-March due to mid-February utility upgrades (-\$1.2M), and 105KE Reactor (+\$1.0M) point adjustment (BCR-PRC-10-048R0).
- The RL-0013 negative variance (-\$0.5M) is due primarily to the following:
 - Effluent Treatment Facility (ETF) thin film dryer procurement delayed by vendor negotiations (currently on order), and delayed start of Waste Encapsulation and Storage Facility (WESF) K1/K3 Upgrades Conceptual Design Report (CDR) due to earlier required Functional Design Criteria (FDC) and alternative analysis review.
- The RL-0030 negative variance (-\$1.0M) the primary contributors to the negative schedule variance that exceed the reporting thresholds are as follows:
 - Drilling (-\$0.4M) due to need to revise the 200-ZP-1 RFP to include the drilling of four wells with the option for an additional four wells as there is uncertainty with the number of wells that will be drilled. This has caused the current period delay, and no long term impact is expected as a result of this change. 100 KR-4 Operable Unit (-\$0.3M) limited availability of funds has delayed subcontracted work for KW Bioremediation procurement and construction. 100 HR-3 Operable Unit (+\$1.5M)

HX construction activities (process building equipment procurement/installation, distribution of electricity and piping, and erect process building) are proceeding ahead of schedule. 200-UP-1 Operable Unit (-\$0.3M) less S-SX construction work was performed in December than scheduled. Overall CTD schedule variance for S-SX remains ahead of schedule. Regulatory Decision/Closure (-\$0.8M) several activities are delayed or on hold due to developing discussions on the tentative agreement and or funding/prioritization issues resolution (Feasibility study, 200 West Decision Documents, 200 East Decision Documents).

- The RL-0011, RL-0012, RL-0040 and RL-0042 variances (-\$0.3M) are within reporting thresholds. The Current Month unfavorable Cost Variance (-\$1.9M/-5.7%) reflects:
 - The RL-0030 negative variance (-\$1.0M) The primary contributors to the negative cost variance that exceed the reporting thresholds are as follows:
 - 100 KR-4 Operable Unit (-\$0.6M) unfavorable cost variance is due to:

Increased use of resources to expedite remedial investigation sampling and accompanying RI/FS report efforts, more labor required than expected to perform the O&M Level of Effort activities, troubleshooting of the KR-4 PLC after system upgrades, impact to overall contract completion cost is being evaluated.
 - 100 HR-3 Operable Unit (-\$0.4M) Primary drivers for the current month negative cost variance are as follows: Additional time being spent on internal CERCLA document development that will be recovered in completed Draft A document, unscheduled Pump & Treat resin regeneration for DR-5 needed due to later startup of DX than planned, and monitoring and Reporting cost overrun on the RD/RA Work Plan and Interim Action Monitoring Plan.
 - Regulatory Decision/Closure (-\$0.3M) an error was found in the database that caused rework in the U Zone, requiring additional QA and QC support. Also, additional estimating resources were required for support of change proposal reviews.
 - The RL-0013 negative variance (-\$0.8M) is due to the following:
 - Assessments continue above plan, Project Management labor and subcontractors charging to BASE account instead of ARRA due to FY2011 scope transfer (correction in progress), coupled with container charges to Transportation and Packaging (correction in the next reporting period), subcontractor charge to Central Waste Complex (CWC) (correction next month), increased labor and subcontractor costs to support WESF Roof Upgrade, partially offset by reversal of subcontractor costs from TRU Retrieval Long-Term Box Storage (LTB).
 - The RL-0041 negative variance (-\$0.5M) is due to the following:
 - Waste Sites (-\$0.3M) The cost variance is primarily related to work scope moved to new WBS elements retroactive to the start of the fiscal month (BCR-PRC-10-048R0). Cost transfers will correct this next month.
 - 100K Area Project (Facilities and Others) (-\$0.2M) the negative cost variance for Facilities (-\$0.5M) is due to asbestos removal costs on 165KE and initiation of below-grade removal of 1706KE, and costs of relocating personnel and materials displaced from facilities being demolished, offset by 105KE Core Removal (+\$0.3M) attributed to point adjustment (BCR-PRC-10-048R0).
 - The RL-0040 positive variance (+\$0.4M) can be attributed to:
 - The positive cost variance is due to under runs with G&A and direct distributables (+\$0.4M).
 - The RL-0011, RL-0012, and RL-0042 variances (-\$0.2M) are within reporting thresholds.

Performance Analysis – Contract to Date

ARRA Performance by PBS (\$M)

	\$M								
	Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost				
RL-0011 - PFP D&D	179.1	167.7	162.1	(11.4)	5.6	277.5	275.2	2.3	
RL-0013 - MLLW Treatment	35.6	33.9	31.9	(1.8)	2.0	47.8	45.9	1.9	
RL-0013 - TRU Waste	140.7	140.5	140.9	(0.2)	(0.4)	249.2	238.9	10.3	
RL-0030 - GW Capital Asset	91.3	88.4	88.8	(2.9)	(0.4)	168.5	192.1	(23.6)	
RL-0030 - GW Operations	63.6	61.0	55.7	(2.6)	5.3	84.3	85.4	(1.1)	
RL-0040 - U Plant/Other D&D	139.6	135.5	123.5	(4.1)	12.1	196.7	185.3	11.4	
RL-0040 - Outer Zone D&D	54.2	54.6	44.9	0.4	9.7	83.0	78.6	4.4	
RL-0041 - 100K Area Remediation	131.5	130.3	128.7	(1.2)	1.6	168.4	169.3	(1.0)	
Subtotal	835.8	811.9	776.5	(23.8)	35.4	1,275.3	1,270.7	4.6	
Management Reserve						27.5			
Fee			45.3			72.1			
Total			821.8			1,375.0			

ARRA

The CTD unfavorable Schedule Variance (-\$23.8M/-2.9%) reflects:

- The primary contributors to the RL-0011 CTD negative variance (-\$11.4M) that exceed the reporting thresholds are as follows:
 - Safety stand-down and stop works
 - Breathing air issues
 - Leak Path Factor issues associated with 242Z entry point
 - Ultra conservative application of the SCO process
 - Unplanned process vacuum mockup work to support application of new glovebag technique
 - Additional time needed on chemical decontamination and the removal of external connections
 - Late start on the Alternate Exhaust System, due to change in strategy and lack of engineering resources

Recovery – Utilization of an additional decontamination agent (Aspigel[®]), additional overtime, leaving gloveboxes in place for removal during demolition, implementing a new containment approach, prioritizing and reassigning resources, outsourcing a portion of the TRU gloveboxes for treatment/size-reduction and application of the revised SCO process are expected to contribute to the gradual schedule recovery. The Aspigel[®] Readiness Assessment was completed and deployed in mid-December. The concept to leave four KPP-related gloveboxes in place for extraction during building demolition was presented to RL with favorable response. BCR-PRC-11-011R0, *Re-plan PFP Work Scope to Align with Recovery Plan*, will be implemented in January. Corrective actions have been identified and are reflected in the BCR, which supports completion of all 174 KPP gloveboxes by the September 30, 2011 completion date. Nuclear Safety and DOE are working to resolve the 242Z Leak Path Factor issue.

- The RL-0030 CTD negative variance (-\$5.5M) reflect the following subproject performance:
 - GW Capital Asset (-\$2.9M) – Primarily due to 200 ZP-1 Operable Unit (-\$3.0M) delay is a result of late design delivery as long lead equipment vendors were not released to fabricate on schedule. The following procurement activities are behind: Fluidized Bed System, Fiberglass Reinforced Plastic Tanks, Electrical Cable, and Air Stripper. This schedule variance is expected to be recovered without a negative impact to the overall project completion date.
 - GW Operations (-\$2.6M) - Drilling (-\$1.4M) drilling delays due to: Management directed stop work and subsequent prioritization of RI/FS drilling (KW RPO, BC-5 RI/FS, and well decommissioning. Delays SAPs (NR-2) Priority ranking with funding uncertainties (HR-3 Bioremediation). Drilling project is reviewing staffing plan and evaluating processes to identify cost efficiencies. Ramp-up and Transition (-\$1.2M) the negative schedule variance is the result of engineering delays and resource shortages experienced early in the project. A recovery plan is being worked with the project completion date expected to be in January 2011.
- The RL-0040 CTD negative schedule variance (-\$4.1M) is primarily due to the following:
 - U Plant/Other D&D (-\$4.1M) negative schedule variance is due to late award of the grout contract for U Canyon (-\$3.2M), delays with the 200 East Administration Buildings (-\$2.0M) due to bio-hazard and radiological control issues. Limited resources has also delayed 200 West Administration Buildings (-\$0.3M). This is offset by accelerating 209E demolition preparation, mobilization, and asbestos abatement (+\$1.5M), and minor variances (-\$0.1M) within threshold.
 - Outer Zone D&D (+\$0.4M) favorable schedule variance include accelerated progress on BC Control Area (+\$3.1M) and CW-3 waste sites (+\$0.2M), offset by delays in MG-1 (-\$0.6M), operable unit to be determined (-\$0.4M), and outer zone pipelines (-\$0.9M). Demobilization of the ALE towers should have been complete in FY2010 but with delays releasing several towers to CHPRC, the project is behind (-\$0.2M), delays with cultural/ecological reviews on the North Slope (-\$0.5M), and variances outside the threshold (-\$0.3M).
- The RL-0013 CTD negative schedule variance (-\$2.0M) is due to the following:
 - MLLW Treatment –Mixed Low Level Waste (MLLW) shipments delayed due to internal/external review for approval of tie-down analysis, receiving facility's inability to accept extra-large sized waste shipments pending building modification, and delay in shipments to offsite treatment facility utilizing Large Type A Container pending approval of Contaminated Equipment-Special Packaging Authorization (CE-SPA).
 - TRU Waste (-\$0.2M) is within reporting thresholds.
- The RL-0041 CTD Schedule Performance negative variance (-\$1.2M) is within reporting thresholds.

The ARRA favorable CTD positive variance (+\$35.4M/4.4%) reflects:

- The RL-0040 favorable cost variance (+\$21.8M) is due to:
 - U Plant/Other D&D (+\$12.1M) favorable cost variance is largely due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$3.3M), G&A and direct distributable allocations (+\$6.5M), less for Program Management than planned (+\$1.3M), efficiencies at U Canyon (D4) (+\$2.5M), less resources than planned for C-3 Sampling (+\$0.7M) and 200E Administration (+\$1.7M), lower than planned costs for capital equipment (D4) (+\$1.9M), less asbestos abatement required for 200 West buildings (+\$2.5M), offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U

Ancillary (D4) (-\$7.6M), coupled with increased insulator staff and overtime to recover schedule, 209E Project (-\$0.7M). Minor accounts not within threshold (-\$0.3M).

- Outer Zone D&D (+\$9.7M) favorable cost variance is due to efficiencies in ALE and North Slope Facilities D&D (+\$4.2M) and Outer Area waste sites (+\$6.6M). The waste site favorable cost-to-date variance is primarily due to an O-Zone RTD Waste Sites adjustment (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with the disposition of rail cars (-\$0.1M) due to unplanned costs for nondestructive analysis of the cars and increase costs for the 212N/P/R Project (-\$1.0M) due to the walls of the basins being much thicker than estimated.
- The RL-0011 favorable cost variance (+\$5.6M) is primarily due to:
 - Efficiencies recognized on cross-cutting support to the D&D work teams (primarily in solid waste management, project management, nondestructive assay, consumables and subcontracts), demolition of ancillary buildings, and the removal of asbestos and non-process equipment from 234-5Z are the cause of this positive variance.

NOTE: This positive cost variance is expected to diminish as corrective actions and recovery plans are implemented. Additional overtime will be used to mitigate schedule delays and maintain baseline milestones. Overtime will be monitored closely to ensure the Cost Performance Index does not fall below the threshold of 1.00.
- The RL-0030 ARRA CTD favorable cost variance (+\$4.9M) primary contributors include:
 - GW Operations (+\$5.3M)

Drilling (+\$3.1M) efficiencies and savings obtained in drilling for 100-NR-2, 100-HR-3, and 200-BP-5 wells. Cost efficiencies are being obtained through an aggressive drilling schedule with savings in support personnel, faster drilling methods and the fact that the HR-3 well depths have been less than originally planned. Well decommissionings have also been completed for less than planned.
 - Regulatory Decision and Closure Integration (+\$1.7M)

Completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging), and borehole drilling and landfill characterization (competitive subcontracting of drilling support).
- The RL-0013 favorable cost variance (+\$1.6M) is due to:
 - MLLW Treatment – Mixed Low Level Waste costs below plan due to efficiencies created by treating waste at energy Solution (ES)-Clive rather than planned treatment at Perma-Fix Northwest (PFNW) due to a waiver received from the Department of Energy (DOE), decreased operational costs at CWC, and efficiencies in Solid Waste Base Operations and Mixed Waste Disposal Trench Upgrades; partially offset by higher subcontractor costs for the ETF Containment Berm Repairs.
 - TRU Waste – Increased labor and materials costs in support of the TFRCS, coupled with increased support and management costs in support of TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of increased Recovery Act Expenditures, partially offset by lower ramp up and training costs for TRU Characterization and Shipping, lower G&A allocations, and efficiencies in T-Plant, Project Management, and Waste Receiving and Processing (WRAP).

- The RL-0041ARRA CTD favorable cost variance (+\$1.6M) is within reporting thresholds.

Base Performance by PBS (\$M)

	\$M							
	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Mat Stab & Disp PFP	133.5	133.6	131.0	0.2	2.7	326.8	350.2	(23.5)
RL-0012 - SNF Stabilization & Disp	188.7	184.9	190.7	(3.8)	(5.8)	580.1	590.9	(10.8)
RL-0013 - Solid Waste Stab & Disp	257.2	255.0	261.3	(2.1)	(6.2)	1,605.9	1,590.1	15.8
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	298.0	293.3	291.5	(4.7)	1.8	1,256.1	1,222.8	33.3
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	54.1	54.3	47.9	0.2	6.4	758.1	759.8	(1.7)
RL-0041 - Nuc Fac D&D - RC Closure Proj	44.9	41.8	40.0	(3.1)	1.8	314.6	367.7	(53.1)
RL-0042 - Nuc Fac D&D - FFTF Proj	10.5	10.5	9.5	0.0	1.0	25.2	23.9	1.3
Subtotal	986.9	973.5	971.9	(13.3)	1.6	4,866.7	4,905.4	(38.7)
Management Reserve						209.9		
Fee			46.6			231.9		
Total			1,018.6			5,308.6		

Base

The CTD unfavorable Schedule Variance (-\$13.3M/-1.4%) reflects:

- The primary contributor to the RL-0030 CTD negative variance (-\$4.7M) that exceed the reporting thresholds are as follows:
 - Drilling (-\$1.0M) due to need to revise the 200-ZP-1 RFP to include the drilling of four wells with the option for an additional four wells as there is uncertainty with the number of wells that will be drilled. No long term impact is expected as a result of this change.
 - 100 NR-2 OU (-\$0.8M) Unfavorable variance has resulted from:
 - Delays in RI/FS sampling and analytical work due to the additional time needed to complete approval of 100-N RI/FS work plan addendum and SAP
 - Delays in initiating the barrier expansion activities pending funding resolution
 - 100 HR-3 Operable Unit (+\$2.4M) HX construction activities (process building equipment procurement/installation, distribution of electricity and piping, and erect process building) are proceeding ahead of schedule.
 - 200-UP-1 Operable Unit (+\$0.8M) S-SX construction activities planned later in FY2011 were performed early.
 - 300 FF-5 Operable Unit (-\$1.1M) Delays are primarily related to:
 - Alternative Emplacement Investigation work due to funding prioritization. Impacts will be determined when funding is definitized.
 - Reprioritization of sampling resources earlier this fiscal year has delayed FF-5 specific drilling activities – recovery expected by mid FY11.
 - Regulatory Decision/Closure (-\$2.0M) several activities are delayed or on hold due to developing discussions on the tentative agreement and or funding/prioritization issues resolution

(Feasibility study, 200 West Decision Documents, 200 East Decision Documents and Sampling Characterization).

- The RL-0041 CTD negative variance (-\$3.1M) is due to:
 - 100K Area (Facilities and Others) (-\$2.9M) where cold and dark activities are being pushed into mid-March due to mid-February utility upgrades.
- The RL-0011, RL-0012, RL-0040, and RL-0042 variances are all within reporting thresholds.

The CTD favorable Cost Variance (+\$1.6M/0.2%) reflects:

- The RL-0040 favorable cost variance (+\$6.4M) is primarily due to:
 - Balance of Site (facilities and others) (+\$5.8M) favorable cost variance is associated with recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) (+\$1.2M) less than expected, completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$1.1M), capital equipment (+\$0.3M), Usage Base Services (+\$0.1M), and underrun in G&A and direct distributable allocations (+\$2.1M). In addition, minor accounts outside the threshold (-\$0.5M).
 - Waste Sites (+\$0.5M) is within thresholds.
- The RL-0013 CTD unfavorable cost variance (-\$6.2M) is due to:
 - Increased assessments above plan, TRU Retrieval additional resources to deal with the deteriorated containers, WRAP facility incurring increased levels of corrective and preventive maintenance activities as a result of repack operations, Project Management labor and subcontractors charging to BASE account instead of ARRA (correction in progress), coupled with container charges to Transportation and Packaging, partially offset by efficiencies in LEF, MLLW, Interim Storage Area upgrades, TRU Disposition, TRU Repackaging, and lower G&A allocations.
- The RL-0011 CTD favorable cost variance (+\$2.7M) this positive cost variance is within established reporting thresholds.
 - Contributors to the variance include early completion of Special Nuclear Material De-Inventory, D&D Materials Subcontracts, Waste Container Procurements; D&D staff ramp-up, and recognized efficiencies in Min-Safe Operations, early demolition of ancillary facilities, and PRF east gallery glovebox cleanout.

Recovery – This positive cost variance is expected to decrease due to recovery actions required to maintain the September 30, 2013, slab-on-grade date. The majority of the impact is in Fiscal Year 2012, due to increased overtime required to support D&D activities and extending resources/teams beyond original plan. BCR-PRC-11-011, *Re-plan PFP Work Scope to Align with Recovery Plan*, will be implemented in January 2011 to align remaining work with the D&D Recovery Plan.

- The RL-0030 CTD primary contributors to the CTD positive cost variance (+\$1.8M) are as follows:
 - 100-NR-2 OU (+\$1.9M) performed chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS Work Plan and Interim Proposed Plan Reporting more efficiently than planned.
 - 200-ZP-1 Operable Unit (+\$2.3M)
 - Interim Operations reflects significant progress and cost under-runs have been achieved to date for Annual System Calibration.
 - Design of the permanent hookup of well EW-1 was lower than planned as only minor changes were needed to an existing design.

- Cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly.
- Cost for collecting depth-discrete groundwater and soil samples during the installation of new wells was less than planned.
- o 200 PW-1 OU (+\$0.8M) labor and subcontract cost for general operations and minor mods support is less than planned. In addition, the SVE system testing, prior to March 1, 2010, went smoothly with no significant repairs and the excessing of the two old SVE units required significantly less labor than planned.
- o Usage Based Services (-\$1.6M) increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.
- The RL-0012 negative variance and the RL-0041 and RL-0042 positive variances are within reporting thresholds.

FUNDING ANALYSIS

FY2011 Funds vs. Spend Forecast (\$M)

PBS	Project	FY 2011		
		Projected Funding	Spending Forecast	Variance
RL-0011	Nuclear Materials Stabilization and Disposition	163.1	149.9	13.2
RL-0013	Waste and Fuels Management Project	162.5	146.2	16.3
RL-0030	Soil, Groundwater and Vadose Zone Remediation	157.6	170.7	(13.1)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	142.6	127.0	15.6
RL-0041	Nuclear Facility D&D, River Corridor	67.7	61.8	5.9
Total ARRA:		693.6	655.6	38.0
RL-0011	Nuclear Materials Stabilization and Disposition	45.3	43.5	1.8
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	83.8	81.6	2.2
RL-0013	Waste and Fuels Management Project	97.7	101.6	(3.9)
RL-0030	Soil, Groundwater and Vadose Zone Remediation	137.2	166.5	(29.3)
RL-0040	Nuclear Facility D&D, Remainder of Hanford	28.4	20.5	7.9
RL-0041	Nuclear Facility D&D, River Corridor	71.4	61.4	10.0
RL-0042	Fast Flux Test Facility Closure	2.4	1.2	1.2
Total Base:		466.2	476.3	(10.1)

Funds/Variance Analysis:

Funding reflects FY2010 carryover funds and FY2011 new budget authority. A CHPRC site integrated work scope prioritization plan is being developed to align work scope with proposed revised funding levels.

BASELINE CHANGE REQUESTS

In December 2010, CHPRC approved and implemented seven (7) baseline change requests, of which two (2) are administrative in nature and did not change budget, schedule or scope.

The seven change requests are briefly identified in the table below:

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for November 2010		
AWA-030-11-007R0	100-BC-5 & 100-FR-3 Initial Planning to Support Contract Mod 129 (TPA M-016-110-T01)	As directed by RL in contract modification 129, “ <i>Contract DE-AC06-08RL14788 – Contract Modification 129, Change Order #101</i> ”, Correspondence No. 1004186 A (Attachment 1), CHPRC is to perform activities necessary to meet the Tri-Party Target Date specified in TPA milestone M-016-110-T01, approved in August 2009 including expedited actions at 100-BC-5 and 100-FR-3. CHPRC is also to provide a Change Proposal on this new work scope by January 6, 2011. Funds to be expended to implement this change order shall not exceed \$800,000. This advance work authorization starts work on this new scope, including the requested Change Proposal. To support this effort, additional documentation is required to successfully implement this change order, including the development and production of an EE/CA and an Action Memorandum (AM). As a result of this contract modification, the performance measurement baseline (PMB) scope is adjusted as identified in the change request. No additional funding is required as a result of this change request and no management reserve is used. There is no change to ARRA Key Parameter and Performance metrics as a result of this change request.
AWA-030-11-008R0	Pore Water Sampling to Support TPA Change Notice TPC-CN-391, RL-30	As directed by RL in contract modification 129 (Attachment 1 in the change request), CHPRC is to perform activities necessary to meet the Tri-Party Target Date specified in TPA milestone M-016-110-T01, approved in August 2009 <i>including expedited actions at 100-BC-5 and 100-FR-3.</i> Also, based on the recent approval of the Hanford Federal Facility Agreement and Consent Order (HFFACO) [Tri-Party Agreement (TPA)] Change Notice, TPA-CN-391 (Attachment 2 in the change request), DOE/RL is now required to collect pore water samples from the Columbia River as part of the 100-F Remedial Investigation (RI) under the 100-F Remedial Investigation/Feasibility Study (RI/FS) Sampling and Analysis Plan (SAP), DOE/RL-2009-43, Rev. 0. As a result of this TPA change and consistent with contract modification 129, the performance measurement baseline (PMB) scope is adjusted as identified in the change request. No additional funding is required as a result of this change request and no management reserve is used.
BCR-030-11-006R0	Update Schedule to Revised TPA Milestone M-015-60, RL-30	Based on the recent approval of an Amendment to the 100-NR-1/2 Operable Units (OUs) Record of Decision for Interim Action (IROD Amendment) on September 29, 2010, the due date for the Hanford Federal Facility Agreement and Consent Order (HFFACO) [Tri-Party Agreement (TPA)] Milestone M-015-60 is now set to March 29, 2011. This TPA Milestone states that “ <i>If an amendment to the 100-NR-1/2 Record of Decision for Interim Action is issued, DOE shall submit an RD/RA Work Plan.</i> ” The original due date listed for this milestone was stated as six months following approval of the IROD Amendment. As a result of this date change, the performance measurement baseline scope is adjusted as identified in the change request. No additional funding is required as a result of this change request and no management reserve is used. There is no impact to Key Parameter and Performance Metrics as a result of this

Change Request #	Title	Summary of Change
		change request.
BCR-PRC-11-010R0	PMB Alignment to Contract Price Adjustment Request	The performance measurement baseline (PMB) scope is adjusted significantly to align to the Plateau Remediation Contract (PRC). While the overall budget change is a reduction of \$258.4M, there are increases in identified PMB scope greater than \$5M, which require RL approval for implementation. RL authorization to implement upon submittal is provided. Briefly, this change request documents CHPRC action to better align the current PMB to the PRC by deleting specific PMB scope not in the PRC, by adding missing PRC scope into the PMB and by revising the PMB scope estimate in identified areas to the original CHPRC Proposal while adjusting for revised labor rates and new escalation values. No additional funding is required as a result of this change request and there is no use of management reserve. There is no change to ARRA Key Parameter and Performance Metrics.
BCR-PRC-11-014R0	Management Reserve Adjustment for PRC Baseline, Revision 2 Update	There is no change to performance measurement baseline (PMB) scope as a result of this change request. However, the management reserve values for all Project Baseline Summaries (PBSs) are revised as identified in this change request. The risk profile for all PBS scope is re-evaluated using the PMB schedule for the PRC Baseline, Revision 2 Update (see change request BCR-PRC-10-053R0, dated September 10, 2010) and documented in Risk Results Report CHPRC-00598, Revision 1 (Attachment 1). The reanalysis of the risks resulted in a determination that the management reserve allocations and spread by FY need to be adjusted for each PBS. The current management reserve values are shown in Table 1 of this change request and the new, revised management reserve values in Table 2 of this change request. No additional funding is needed as a result of this change request. There is no change to ARRA Key Parameter and Performance Metrics as a result of this change request.
BCRA-PRC-10-015R0	General Admin & FOC Change for December 2010	This administrative change request incorporates seven (7) identified changes into the PRC Baseline for December 2010 as identified in this administrative change request. No additional funding is required as a result of this change request and no management reserve is used.
BCRA-R30-11-002R0	ZP-1 Pump & Treat Construction Schedule Revision, RL-30	The performance measurement baseline (PMB) scope is adjusted as identified in the change request. Briefly, this change request adds an increased level of detail to the PMB estimate enabling the Project to more accurately report performance by incorporating the re-planning of 200 West Pump & Treat facility as required based upon final design drawings. There is no change to the overall budget, but the budget distribution, by month, for FY2011 is altered. The scope of work addressed is American Recovery & Reinvestment Act (ARRA) scope and there is no schedule duration impact. The change includes the incorporation of IFC (Issue for Construction) drawings, adjusts for the delayed notice-to-proceed that is now contrary to the original planning assumption and incorporates both the contractor IFC proposed schedule and the vendor proposed schedule for Sludge Stabilization (lime). There is an adjustment to the 200 West Pump & Treat Project ARRA key parameters and performance (KPP) metrics. No management reserve is used as a result of this change request.

Overall the contract period PMB budget was reduced \$258.0M in December 2010. While there is no use of management reserve due to realized risks in December 2010, the management reserve values for all Project Baseline Summaries (PBSs) are revised based on an updated risk profile for all PBS scope as

defined in the PRC Baseline, Revision 2 Update (see change request BCR-PRC-10-053R0, dated September 10, 2010) and documented in Risk Results Report CHPRC-00598, Revision 1, dated October 2010. The overall change in management reserve is an increase of \$36.7M, with a reduction of \$14.8M in the near term (FYs 2011-2013) and an increase of \$51.5M in the out-years (FYs 2014-2018). See the Format 3 Report in Appendix A and A-1 for a complete listing of the specific change requests and the impact on the PMB budget by fiscal year. The change to the Estimated Contract Price, if all authorized, un-priced work scope were definitized at the PMB values as a result of change requests processed in December 2010, is a reduction of \$221.3M and is summarized by fiscal year in the tables below (negative number represents reduction):

December 2010 Summary of Changes to Estimated Contract Price

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014-2018
<i>November 2010 Estimated Contract Price</i>						
PMB	653,426	960,017	1,008,701	677,055	3,900,053	2,499,994
Mgmt Rsrv (MR)	0	0	51,909	30,200	114,409	86,300
Fee	39,712	48,772	49,036	40,377	210,649	93,429
Total	693,138	1,008,790	1,109,646	747,633	4,225,111	2,679,723
<i>Change by Funding Source to Estimated Contract Price in December 2010 (7 BCRs)</i>						
PMB						
ARRA						
All ARRA WBSs	0.0	0	-1,049	0	-1,049	0
Base						
All Base WBSs	0	0	-6,496	-12,705	-64,977	-191,974
Change to PMB	0	0	-7,545	-12,705	-66,026	-191,974
MR						
ARRA						
All ARRA WBSs	0	0	591	0	591	0
Base						
All Base WBSs	0	0	-9,700	-5,100	-15,400	51,500
Change to MR	0	0	-9,109	-5,100	-14,809	51,500
Fee						
ARRA						
All ARRA WBSs	0	0	0	0	0	0
Base						
All Base WBSs	0	0	0	0	0	0
Change to Fee	0	0	0	0	0	0
Total Change	0	0	-16,654	-17,805	-80,835	-140,474
<i>December 2010 Estimated Contract Price</i>						
PMB	653,426	960,017	1,001,156	664,350	3,834,027	2,308,020
MR	0	0	42,800	25,100	99,600	137,800
Fee	39,712	48,772	49,036	40,377	210,649	93,429
Total	693,138	1,008,790	1,092,991	729,828	4,144,276	2,539,249

Changes to/Utilization of Management Reserve in December 2010

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
Management Reserve (MR) - End of November 2010							
ARRA	RL-0011.R1	0	0	3,700	0	3,700	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	2,925	0	2,925	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	4,784	0	4,784	0
	RL-0040.R1.1	0	0	4,800	0	4,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	10,700	0	10,700	0
ARRA Total	0	0	26,909	0	26,909	0	
Base	RL-0011	0	0	2,500	11,000	23,700	0
	RL-0012	0	0	7,600	3,500	14,600	12,200
	RL-0013	0	0	1,500	4,000	11,500	23,000
	RL-0030	0	0	6,500	4,500	15,400	9,000
	RL-0040	0	0	5,000	3,500	13,000	23,400
	RL-0041	0	0	1,500	3,500	8,500	17,700
	RL-0042	0	0	400	200	800	1,000
Base Total	0	0	25,000	30,200	87,500	86,300	
MR Total	0	0	51,909	30,200	114,409	86,300	
Changes to/Utilization of Management Reserve in December 2010							
ARRA	RL-0011.R1	0	0	1,900	0	1,900	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	75	0	75	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	416	0	416	0
	RL-0040.R1.1	0	0	-1,000	0	-1,000	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	-800	0	-800	0
ARRA Total	0	0	591	0	591	0	
Base	RL-0011	0	0	-500	-3,600	-6,300	0
	RL-0012	0	0	-4,600	-500	-4,100	4,600
	RL-0013	0	0	0	-1,000	-2,000	15,100
	RL-0030	0	0	-2,500	-500	-3,000	23,000
	RL-0040	0	0	-1,200	500	-100	8,500
	RL-0041	0	0	-500	0	500	300
	RL-0042	0	0	-400	0	-400	0
Base Total	0	0	-9,700	-5,100	-15,400	51,500	
MR Total	0	0	-9,109	-5,100	-14,809	51,500	
Management Reserve - End of December 2010							
ARRA	RL-0011.R1	0	0	5,600	0	5,600	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	3,000	0	3,000	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	5,200	0	5,200	0
	RL-0040.R1.1	0	0	3,800	0	3,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	9,900	0	9,900	0
ARRA Total	0	0	27,500	0	27,500	0	
Base	RL-0011	0	0	2,000	7,400	17,400	0
	RL-0012	0	0	3,000	3,000	10,500	16,800
	RL-0013	0	0	1,500	3,000	9,500	38,100
	RL-0030	0	0	4,000	4,000	12,400	32,000
	RL-0040	0	0	3,800	4,000	12,900	31,900
	RL-0041	0	0	1,000	3,500	9,000	18,000
	RL-0042	0	0	0	200	400	1,000
Base Total	0	0	15,300	25,100	72,100	137,800	
MR Total	0	0	42,800	25,100	99,600	137,800	

SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Section H.20 clause entitled *Self-Performed Work*. CHPRC expects percentages for small business to increase as the year progresses.

Contract-to-Date Actual Awards & Mods								Projection through FY18	
10/01/08 thru 12/31/2010								Planned Subcontracting*	\$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	\$1,543,832,277
Reporting Classification	ARRA		Non-ARRA		Total (\$)	Percent of Total	Goal (%)	Balance Remaining to Award =	\$980,650,918
	(\$)	%	(\$)	%				Goal Award (\$)	Bal. to Goal (\$)
SB	\$364,781,939	55.49%	\$395,503,079	44.62%	\$760,285,018	49.25%	49.30%	\$1,244,570,215	\$484,285,197
SDB	\$67,308,426	10.24%	\$72,961,505	8.23%	\$140,269,931	9.09%	8.20%	\$207,007,622	\$66,737,691
SWOB	\$78,651,975	11.96%	\$79,496,110	8.97%	\$158,148,085	10.24%	6.50%	\$164,091,408	\$5,943,323
HUB	\$11,670,636	1.78%	\$14,179,764	1.60%	\$25,850,400	1.67%	3.20%	\$80,783,462	\$54,933,062
VOSB	\$55,214,920	8.40%	\$30,980,142	3.49%	\$86,195,062	5.58%	2.00%	\$50,489,664	(\$35,705,398)
SDVO	\$11,218,537	1.71%	\$10,423,855	1.18%	\$21,642,392	1.40%	2.00%	\$50,489,664	\$28,847,272
NAB	\$8,775,801	1.33%	\$6,312,566	0.71%	\$15,088,367	0.98%	0.00%	<i>*10-year subcontracting projection</i> <u>PRC clause H.20 small business (SB) requirement:</u> ≥17% of Total Contract Price performed by SB Total Contract Price: \$5,376,058,896 17% requirement: \$913,930,012 Awarded: \$760,285,018 Balance to Requirement: \$153,644,995	
Large	\$188,766,590	28.71%	\$273,999,721	30.91%	\$462,766,312	29.98%	0.00%		
GOVT	\$60,184	0.01%	\$1,006,095	0.11%	\$1,066,279	0.07%	0.00%		
GOVT CONT	\$103,715,105	15.78%	\$212,460,007	23.97%	\$316,175,112	20.48%	0.00%		
EDUC	\$2,669	0.00%	\$85,973	0.01%	\$88,642	0.01%	0.00%		
NONPROFIT	\$31,758	0.00%	\$3,279,114	0.37%	\$3,310,872	0.21%	0.00%		
FOREIGN	\$28,080	0.00%	\$99,252	0.01%	\$127,332	0.01%	0.00%		
Total	\$657,386,326		\$886,445,952		\$1,543,832,277				

Notes:

1. Performance through December 2010 continues to exceed goals in the Disadvantaged Business, Woman Owned, and Veteran Owned categories and lag our goal for HUB zone and Service Disabled Veteran business awards. Forty-nine percent of total awards have been made to small businesses with over 55% of ARRA awards to small businesses.
2. ARRA-funded awards have accounted for 43% of all actions placed since contract inception.
3. Over 94% of the total dollars arise from service and staffing Contracts and Contract amendments with four percent of the dollars arising from P-card purchases and the balance from purchase orders for materials and equipment.
4. This report excludes blanket contract values which are only estimates and not used for payment obligations.
5. Data is summarized by business categories (WMBE codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
CONTRACT			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office (CBFO).	Ongoing