

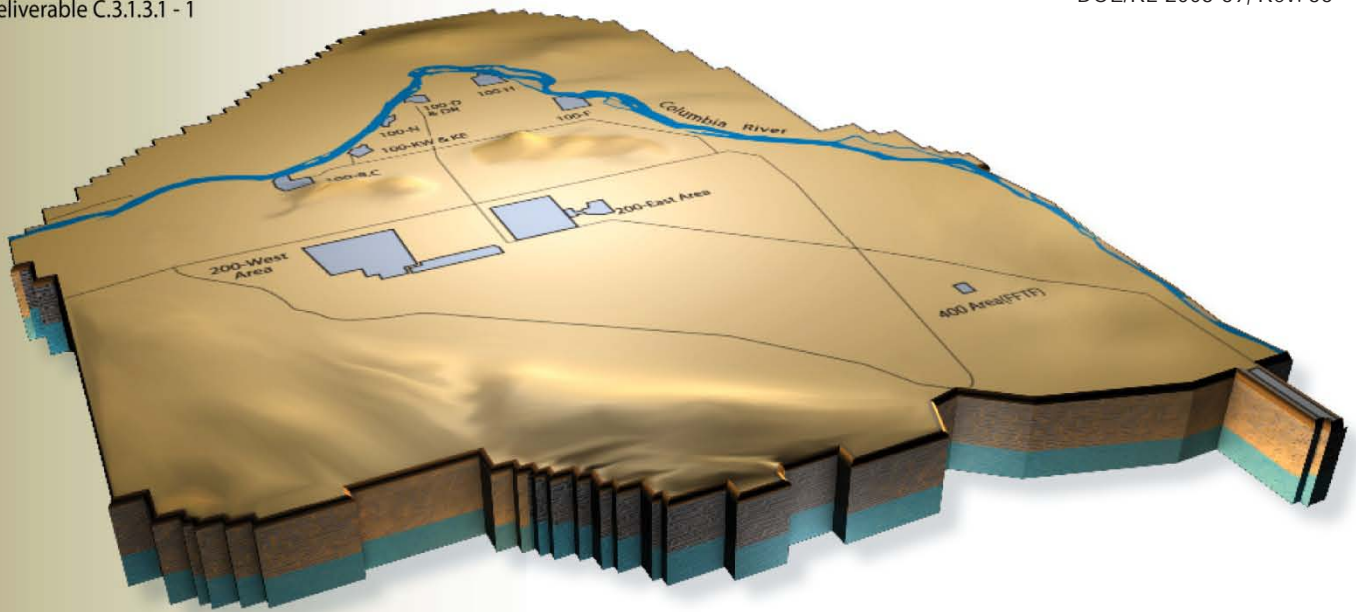


J. G. Lehew
President and Chief
Executive Officer

Monthly Performance Report

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EXECUTIVE SUMMARY

Focus on Safety

The CHPRC team continued safe accomplishment of cleanup progress in September including completing the first of two Key Performance Parameters for Recovery Act funded work at the Plutonium Finishing Plant (PFP), one year ahead of schedule for readying fuel vaults and ancillary buildings for demolition and two years ahead of schedule for achieving final disposition of the structures. Removal of plutonium-contaminated process equipment and asbestos and non-destructive assay measurement of process support equipment from PFP facilities continued in readying the PFP Complex for demolition. The CHPRC team also resolved all outstanding safety concerns underlying a 34-year restriction on performing intrusive D&D work in the 242Z building.

Significant D&D progress continued with Upper Arid Lands Ecology Reserve demolition activities, asbestos abatement activities in the operating and pipe galleries at U Canyon, load out of 224U, 224UA and 272E demolition debris and demolition of 275E. Beryllium sampling and initial characterization activities on the 200 West structures continued. At 100K Area, CHPRC completed hazardous material removal and asbestos abatement Interim Safe Storage activities on 105KE Reactor and above-grade demolition of four structures.

Other progress included continued shipment of Transuranic (TRU) mixed waste, Mixed/Low Level Waste shipments in support of TPA Milestones, TRU Retrieval of both contact and remote handled containers, TRU Waste Shipments to Idaho and to the Waste Isolation Pilot Plant, construction of groundwater treatment facilities, drilling wells that will be used for monitoring, extracting, and remediating groundwater, ongoing groundwater pump-and-treat operations and soil remediation activities in the Outer Zone at BC Control area, CW-3 waste sites, and MG-1 waste sites.

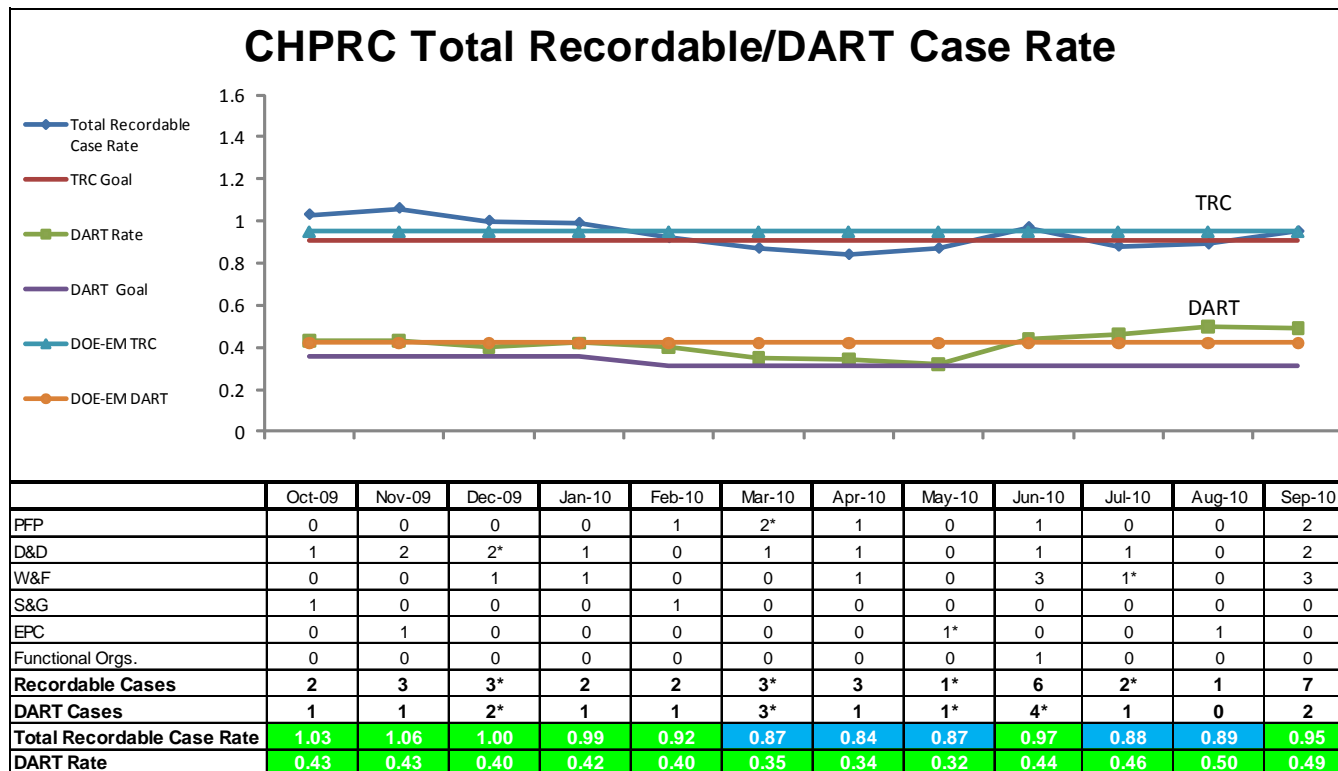
A primary safety focus in September was completion of activities in support of Waste Retrieval Project's Integrated Safety Management System and Environmental Management System (ISMS/EMS) re-verification. A corporate assessment team verified successful closure of previously identified concerns. One resulting action will be development of a CHPRC Industrial Hygienist and Industrial Safety qualification process.

CHPRC received final approval for Hanford-wide safety standards, procedures, and training as a result of partnering between labor and management representatives of the three prime contractors. The goal is to improve safety across the Hanford site by establishing these site-wide standards to provide a consistent approach for workers who may work in facilities controlled by multiple Hanford-site contractors. The four Hanford wide safety standards, procedures, or training include a site-wide management plan, a DOE-0360 *Hanford Site Confined Space Procedure*, a DOE-0359 *Hanford Site Electrical Safety Program*, and DOE-0355 *Hanford Standardized HAZWOPER Training Program Description*.



TARGET ZERO PERFORMANCE September 2010

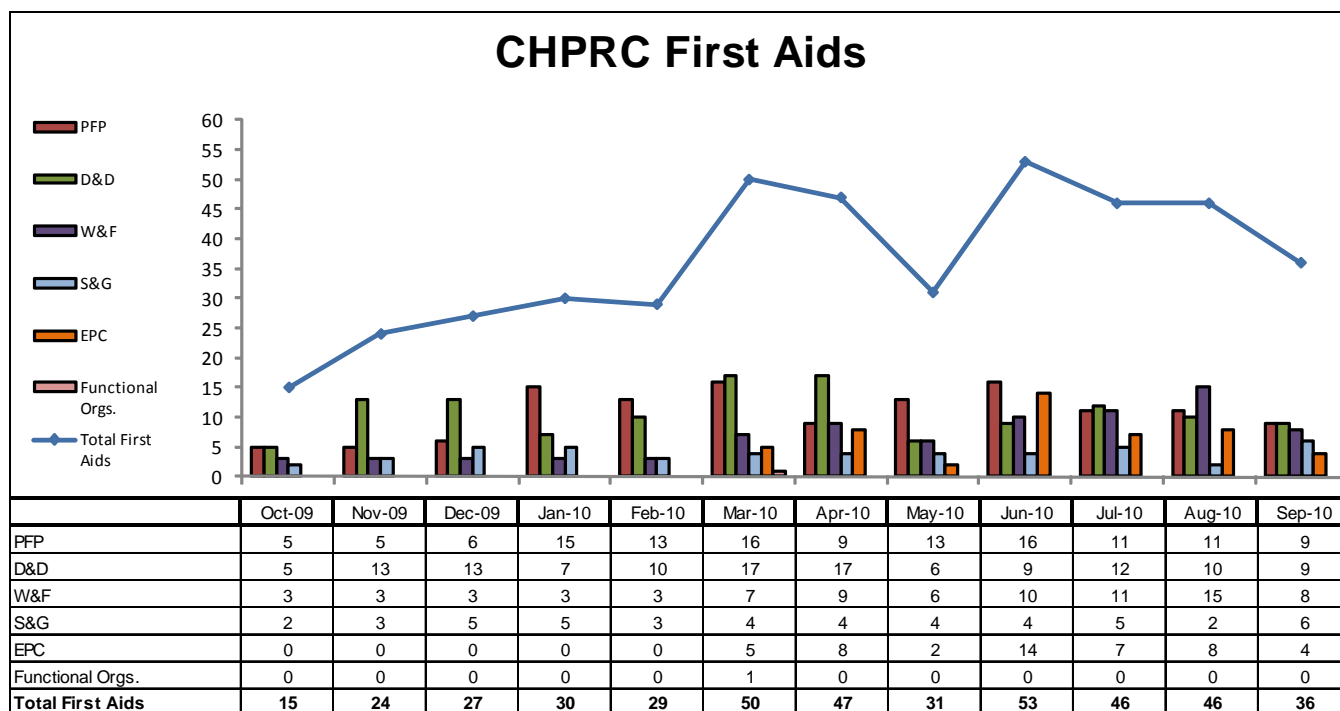
CHPRC continued focusing on integrating safety programs in all program and project areas.



Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.95 is based upon a total of 35 recordable injuries for the period. There were seven Recordable cases in September with two of those determined to be DART cases. Update: One recordable case in August from an insect bite that required medication and one case in June that resulted in Days Away. Three 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 0.49 is based upon a total of 18 cases (15 Days Away, three Restricted), with two cases in September.

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



First Aid Case Summary – Thirty-six first-aid cases were reported in September. The largest contributors were 12 Sprains, Strains and/or Pains with seven abrasions or bruises resulted from contact with objects, seven insect bites/stings, and 14 precautionary visits to AMH for potential exposures (two resulting in First Aids). CHPRC is evaluating the MSA soft-tissue committee for adoption or expansion as a site-wide initiative, partnering with HAMTC safety to evaluate leather glove alternates and protective gauntlets to reduce cuts/abrasions to hands/arms, and benchmarking Soil & Groundwater use of insect wipes against other projects.

PROGRAM SUMMARIES

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

Progress continues on activities in support of the Hanford Site Corrective Action Plan for improving the site’s Chronic Beryllium Disease Prevention Program (CBDPP) which was approved by the DOE Office of Environmental Management and the DOE 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. Company-wide communications were issued by the CHPRC President as well as RL communicating the progress made and the path forward for the CBDPP.

In the area of Radiation Protection, CHPRC implemented DOE O 5400.5 *Authorized Limits*, and 10 CFR 835, *Exemption Request For Select Low-Energy Beta Emitting Radionuclides* (e.g., C-14, Tc-99), often referred to as "hard to detect" or HTD. Implementation of these limits provides improved radiological monitoring efficiency for locations where HTD radionuclides exist in a significant percent, relative to other radionuclides, including 105KE reactor facilities.

Environmental Program and Strategic Planning (EPSP)

Environmental Management System:

- The FY2010 Objectives and Targets were exceeded and FY2011 EMS Objectives and Targets were developed and submitted to senior management for approval

Compliance Inspections and Reviews included:

- Inspections of major radioactive air emission stack 291-A-1 and B-1 at B Plant were conducted in September 2010, by Washington State Department of Health, with no concerns or issues noted
- Ecology field verification of Air Operating Permit certification of the Asbestos Landfill and Non-Radioactive Dangerous Waste Landfill was performed via a field walk down, with no issues or findings
- In preparation for final status TSD permitting, Ecology performed a field walk down of the Low Level Burial Ground Mixed Waste Trenches 31 and 34. No issues were noted.
- Ecology toured the Effluent Treatment Facility (ETF), Liquid Effluent Retention Facility (LERF), and the Treated Effluent Disposal Facility (TEDF). There were no issues, findings, or observations.
- Inspection of the T Plant TSD unit was conducted by Ecology and EPA and resulted in discussions regarding Hanford Facility permit interim status. Follow-up documentation was provided.
- The 209-E Deactivation Notice of Construction (NOC) was submitted to RL on September 2, 2010
- A revised National Emission Standards for Hazardous Air Pollutants; Radionuclides Quality Assurance Project Plan was completed and informally submitted to RL on September 28, 2010

Strategic Planning Support

- Supported RL in discussions with HQ on the Hanford plutonium waste inventory and production history.
- Completed a management assessment on the implementation of the risk management procedure and risk management implementation guide. There were no findings as a result of the assessment but two opportunities for improvement were identified.
- Initiated preparation of the PMB Rev. 2A files to enable performance of Monte Carlo risk analyses using the Pertmaster® risk modeling software. The updated risk analyses will be completed by October 30, 2010.

Business Services and Project Controls

In September 2010, CHPRC approved and implemented eleven baseline change requests, of which four are administrative in nature and did not change budget, schedule or scope.

Overall, the contract period PMB budget increased \$21,630.1K in September 2010. Management reserve, in the amount of \$3,500K, was utilized in association with Risk PRC-042, "Required resources not available", in RL-0013. 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 PMB Revision 2 was submitted to RL on September 10, 2010 and implemented for September reporting. In addition to baseline changes, five Change Proposals were submitted during the month.

During September, Prime Contracts received and processed six contract modifications (Numbers 121, 122, 123, 124, 125, and 126) from RL. The Correspondence Review Team reviewed and determined distribution for 49 incoming letters and the Prime Contract Manager reviewed 90 outgoing correspondence packages.

DOE's Office of Environmental Management conducted a review of the Hanford Site's Real Property Maintenance Program in August. A draft report from the review team was received for comments.

Overall the Review Team observed that the real property maintenance program at the Hanford Site is effective in meeting mission objectives, supports health and safety, and supports facilities operations. The ARRA Phase 1-3 and Unsecured Core Project mobile offices (MO) have all been received and installed. Of the 168 MOs procured, only MO2209, the MSA Water Utilities Trailer, is awaiting the final walkthrough and occupancy inspection. MO2209 is expected to be accepted for occupancy on October 13, 2010.

Facilities and Property Management (F&PM) initiated the site evaluations and statements of work for the procurement of two additional five-wide MOs, two mobile restroom facilities and a double-wide MO and a mobile restroom facility to support the remaining space requirements for the Soil and Groundwater Remediation (S&GW) Project. The new units will be located west of MO285 in 200E north of the S&GW shops under construction in the Unsecured Core. Occupancy is anticipated in late January 2011.

During September, CHPRC Procurement group awarded 188 new contracts with a total value of \$45.4M, amended 1,273 existing contracts with a total value of \$115.9M and awarded 462 new purchase orders valued at \$5.4M to support Base/ARRA acceleration objectives.

As measured at the end of CHPRC's second year, procurement volume has been significant. Subcontract activity totaling \$1.445B has been recorded with approximately 49% or \$708M in awards to small businesses. ARRA funded activity amounts to 41% or \$596M of the total. This includes 4,200 contract releases, 6,800 purchase order line items, and over 117,000 P-Card transactions.

Material Services activities for September included:

- P-Card Administration has been reviewing P-Card holder files in preparation of an Internal Audit scheduled to commence in October
- Continued to provide P-Card reporting support for CHPRC Environmental Protection
- Worked with MSA Site Forms Designer to correct problems with the Spares Storage Request (SSR) form (A-6004-892) after the transition from an Adobe Form to a Word template. Both issues were resolved satisfactorily and the new Word template for the SSR form is working perfectly.

Interface Management support continued in September:

- CHPRC and MSA representatives co-presented a briefing titled "Achieving Integrated Safety Management through Working Together as Prime Contractors" at the national DOE ISMS conference in Augusta, Georgia.
- Interface Management observed a CH2M-WG Idaho emergency drill and provided an assessment of the effectiveness of the CH2M-WG Idaho Emergency Management Program effectiveness.
- Working with Washington River Protection Solutions (WRPS), Interface Management completed the required annual update and approval to Memorandum of Agreement Number MOA-WRPS-CHPRC-2009, For the Performance and Payment of Services, between CHPRC and WRPS.
- Continued to work with AdvanceMed Hanford (AMH) and within CHPRC on resolution of issues related to performance of AMH exams for PRC workers. On September 9, 2010, an Interface Management representative briefed the participants in the CHPRC Quarterly Subcontractor Safety Meeting on the requirements and processes for preparing Employee Job Task Analysis (EJTA), scheduling AMH exams, and constraints associated with receiving the results from AMH exams.
- Interface Management provided a draft of a new Administrative Interface Agreement between AMH and CHPRC on use of the AMH Hanford Patient Information Portal to help insure protection of sensitive information contained in portions of the Patient Portal.

- In conjunction with representatives of the CHPRC D&D and S&GW Projects and SHS&Q organization, Interface Management continued to work with MSA and the Waste Sampling and Characterization Facility (WSCF) on CHPRC's needs for timely processing of project and industrial health related samples. WSCF's support for CHPRC's chemical and low-level radiological sample analytical needs is essential to effectively execute work.
- Continued to work with Advanced Technologies and Laboratories (ATL) and CHPRC Projects and SHS&Q to develop a projected FY2011 sample load for the 222-S Laboratory from CHPRC and the required associated Service Level Agreement (SLA).
- Continued discussions with Pacific Northwest National Laboratory (PNNL) on the proposal for an update to the Memorandum of Agreement between CHPRC and PNNL for the Performance and Payment of Services.
- Interface Management worked with the CHPRC Projects and MSA to generate a proposed revision to the HNF-46148, Interface Control Document between CHPRC and MSA for Water Systems Services, incorporating the interface between the new 100-K Area water system being constructed by CHPRC in support of its D&D activities and the MSA managed Hanford Raw Water System.
- Interface Management worked with MSA and the CHPRC S&GW Project to draft a new proposed Administrative Interface Agreement (AIA) documenting the path forward addressing future interfaces between MSA Electrical Utilities managed Hanford Site electrical transmission lines and the S&GW Project groundwater pump-and-treat transfer and control lines.
- In support of CHPRC's efforts to improve forecasting of CHPRC required MSA services and the effectiveness of the CHPRC work authorization process to MSA. Interface Management worked to generate new or updated Master Agreements for the start of FY2011 for MSA provided services identified in the DOE J-3 Matrix. The new or revised Master Agreements include: Facility Services for Rad and Process Facilities, Utilities (EU, Sewer, and Water), Roads and Grounds, Facility Services – Non-rad Facilities, Fleet Services, Fire and Emergency Response Services – Fire Systems Upgrades Projects, Miscellaneous Services, and Information Resource Management Support.
- Worked with the CHPRC D&D Project and MSA to develop a process for turnover of the new A-9 Electrical Substation constructed by the CHPRC D&D Project at the 100-K Area to MSA Electrical Utilities for operation utilizing the process described for construction project turnover defined by PRC-PRO-CN-14990, Construction Management.

Engineering, Projects and Construction (EPC)

RL provided a response to letter CHPRC-1000326 addressing seismic criteria. An update to the PRC seismic spectra is being incorporated in PRC Engineering procedures. This new spectra will satisfy the requirements of DOE-STD-1020-2002 & DOE-STD-1189 and the SCR D O 420.1B Rev. 4, Section E (5) PRC-Natural Phenomena Hazards Mitigation for DOE Facilities.

- Initiated Phase II of construction for Project W-105, *Interim Storage Cask Pad #3 (CRS)*, after completion of Interim Storage Cask transfers to the pad

Central Engineering support for September included:

- Chaired and participated in the Preliminary Design Review for the Sludge Treatment Project Knockout Pot Disposition Subproject. Review coordination and technical review comments were provided. The final design review report is scheduled to be published October 12.
- Participated in the evaluation and response to the DNSFB issues with the WTP Ashfall Design Requirements. DNSFB believes (based on preliminary USGS report) that the volcanic ashfall hazard curve needs to be revised for the Hanford site, resulting in a significant increase in the current design ashfall loads. Based on consultation with the USGS, a preliminary evaluation and response to the DNSFB by the RL and ORP team concluded that the current design ashfall loads are appropriate.
- Issued CHPRC-00999 “Structural Evaluation of the Reinforced Concrete ISC” in support of the Waste & Fuel project, addressing and resolving RL’s concern regarding the movement of the interim storage cask (ISC) that was dropped approximately one foot during receipt at the 200E Interim Storage Area (ISA) in October 2009.
- Issued Chief Engineer Message 2010-05 on Fire Protection reinforcing required involvement of key functional groups early in any design/modification process.
- Continued to provide technical support to the ARRA facilities projects, including Statement of Work (SOW) review and approval, detailed design drawing checking and approval, calculation preparation, submittal reviews, Facility Modification Packages (FMPs), Design Change Notices (DCNs), Memorandum of Understanding (MOU) review and approval, and field walk downs at the mobile office construction sites.
- Significant reviews/comments were provided for the Next Generation TRU Trench Face Process System Preliminary Design Review Plan and the KE Core Removal Project Formal Design Review Plan.

Communications and Outreach

CHPRC Public Affairs submitted the American Recovery and Reinvestment Act (ARRA) weekly report (with video and photos) to RL per Contract No. DE-AC06-08RL14788 – Modification M047. Videos produced in September showcased CHPRC cleanup progress in all scope areas across the Hanford Site. In addition to the weekly report, Public Affairs published its weekly *Recovery Act Update*, documenting the first structural steel installation at the 200 West Pump-and-Treat Facility, removal of suspect transuranic waste from the 3A burial grounds, and removal of contaminated transfer piping at the Plutonium Finishing Plant. Current issues of the newsletter are available on CHPRC’s external web and feature a wide range of project progress topics.

The September issue of *On the Plateau* was a special two-year anniversary issue, documenting the unprecedented progress made in the first two years of CHPRC’s Contract, including meeting all regulatory milestones, completing the security downgrade at PFP, completing 91 TRUPACT-II shipments since March, removing over 350,000 tons of soil and reducing the site footprint by almost 100 square miles. At the request of RL, Public Affairs submitted potential articles for DOE-EM to showcase progress across the DOE complex. The most recent DOE-EM Recovery Act Newsletter featured CHPRC’s cleanup of the Fitzner/Eberhardt Arid Lands Ecology Reserve and a personal profile of D.T. Luu, a nuclear chemical operator hired with Recovery Act funds to support transuranic waste retrieval.

Five *InSite* Weekly News programs were produced, aimed at communicating progress, employee engagement and community involvement to the workforce. A special edition of the program showed how the annual HAMTC Golf Tournament benefits the Tri-Cities Union Gospel Mission.

All-employee meetings were held in several locations throughout the Tri-Cities and workers were given updates on project performance, safety metrics and had the opportunity to interface with project leadership. A follow-up employee survey allowed us to track the most valuable elements of the meetings and lessons learned will be applied to future meetings.

At the request of the EPC organization, Communications conducted a workforce survey and analysis of front line employees and an actionable response plan was implemented to address concerns.

Communications produced the fourth, in a series of safety videos focusing on heavy equipment and vehicle safety, one of the "Big 6" hazards at the Hanford site. This video is being prepared for the December All-employee meetings and will be distributed through the Zero Accident Councils.

PROJECT SUMMARIES

RL-0011 Nuclear Materials Stabilization and Disposition

The Plutonium Finishing Plant (PFP) Project continues to maintain PFP facilities compliant with authorization agreement requirements.

ARRA

The first of two Key Performance Parameters (KPPs) for ARRA-funded work at PFP was completed in September, a year ahead of schedule, with five additional buildings readied for demolition. This brings the number of fuel vaults and ancillary buildings readied for demolition since April 2009 to 22, exceeding the KPP goal of 20 structures ready for demolition by September 2011. Final disposition of the structures, originally planned for just two facilities through FY2011, was also accelerated, and by the end of the quarter all 22 had been demolished/disposed or removed for reuse two years ahead of schedule, 17 with Recovery Act funds and five with Base funding.

Removal of plutonium-contaminated process equipment continued as a top priority in readying the PFP Complex for demolition. A total of 75 gloveboxes and hoods have been removed to date with Recovery Act funds, including ten in the fourth quarter, eight from 234-5Z and two from 2736-ZB Building. Glovebox size reduction was initiated at PFP during the quarter, with five boxes successfully cut up and packaged in Standard Waste Boxes (SWBs) for disposal as transuranic (TRU) waste. Removal of asbestos from PFP facilities continues ahead of schedule, with asbestos removed from 10,879 linear feet of piping and ductwork to date with Recovery Act funds. Non-destructive assay measurement of process support equipment is also continuing ahead of schedule, with more than 70% of the highly contaminated process vacuum system and process transfer lines now measured. Field work to remove assayed sections of piping was initiated, and by the end of the quarter approximately 250 feet of pipe had been removed and packaged for disposal as TRU waste.

With four of nine gloveboxes removed and all process equipment removed from the others, the former PFP SNM Storage Vault Complex is rapidly approaching a ready-for-demolition condition, with work also underway on equipment removal from the NDA laboratory, electrical isolation of various rooms and areas, and removal of hazardous materials that must be disposed of separately from the demolition debris. Work is also proceeding to prepare for D&D of the 242Z Building, where all entries must be performed with extensive protective clothing and supplied air respirators. More than 50 entries into the facility have now been successfully completed to remove combustible materials, restore the fire protection system, improve ventilation flow and reduce airborne contamination levels. By the end of the quarter the team had resolved all outstanding safety concerns underlying a 34-year restriction on performing intrusive D&D work in the building, and had reduced the levels of contamination in the

242ZA entry annex to levels where Powered Air Purifying Respirators (PAPRs) could be used in the annex rather than supplied air.

Removal of the former security infrastructure was accelerated during the quarter by expanding existing small business subcontracts to include additional work scope. The entire inner Protected Area perimeter fence line was removed, along with the 1.5 mile long Ecology Block vehicle barrier, the E-field intrusion alarm system, and miles of razor ribbon concertina and barbed wire. As the pace of D&D work accelerated, so did waste generation at PFP. Cumulatively through September 2010, Recovery Act funds have supported shipment of 2,051 cubic meters of low level waste, 187 cubic meters of TRU waste, and 22 cubic meters of non-radioactive waste from PFP.

Base

236Z Plutonium Reclamation Facility – The pH Glovebox was successfully removed from PRF, placed into a Standard Waste Box (SWB), and shipped to WRAP for disposition as TRU waste. The suspension on breathing air work was lifted on September 21. Two canyon entries to troubleshoot the problem with the canyon crane were conducted identifying that the cable reel on the trolley is damaged and needs to be replaced.

RL-0012 Spent Nuclear Fuel Stabilization and Disposition

The formal design review of the Knockout Pot (KOP) Processing System Preliminary Design Report (PDR) is complete. There were 181 comments with 64 being “Type A”. The KOP Subproject team is actively implementing the corrective actions and plans to complete the resolution of all “Type A” comments and a substantial number of the “Type B” comments prior to final approval of the PDR. The current schedule for the PDR release is mid-October. In addition, a four foot drop test of the aluminum prototype inserts filled with KOP simulant material was successfully performed. The insert adequately confined the KOP simulant material. The final test report will be used as part of the Department of Transportation Industrial Package-2 (IP-2) equivalency document that will ultimately be used to support the development of the KOP/Multi-Canister Overpack (MCO) F-SPA checklist. AREVA Federal Services completed its structural review of the MCO cask/MCO with the KOP product material and the copper inserts. The review found that the addition of the KOP product material and the copper inserts is bounded by the original MCO cask structural analysis, thus not requiring any additional structural reviews. Finally, a Hazards Analysis of the KOP Pretreatment activity was completed by 100K Area D&D and KOP Subproject personnel. Although the conclusions have not been finalized, no new hazards were identified. Some of the existing hazards may require further evaluation to ensure that existing controls are sufficient to protect facility workers.

Progress continued toward declaring readiness to sample the Settler Tank Sludge from SCS-CON-230. Procedures OP-43-39W and OP-70-151W were approved and are ready to work, work package 1K-10-05217/W, which changed out the lid bolts on the super pigs, installed the NucFil filters into the Standard Waste Boxes (SWBs), and completed a functional fit test for the bottle/bag and shielding spacer, was completed, and two training “dry-runs” for sampling were completed by the operators. The first extraction was made on September 28 and shipped to PNNL on September 30. The remaining sludge of the first core will be drawn during the first week in October. A total of four cores are required to meet sampling Data Quality Objective requirements.

Additional test articles for the Engineered Containers Retrieval and Transportation System (ECRTS) began arriving at the Maintenance and Storage Facility (MASF) for installation. The sand filter, Riverbend sludge transfer and decant hoses (hose-in-hose), Sludge Transport System (STS) Trailer, STS Container, and STS Cask were all delivered and positioned, in preparation for Integrated Testing to be initiated. In the mean time, component level testing was initiated on the Retrieval and Transfer systems.

STP Engineering, in conjunction with the MASF test coordinator and XAGO personnel, worked to resolve insufficient flow rate in the HydroLance eductor. As a result, the tool was modified (enlarged the jet holes by 0.25mm each), and retested. After the simulant was loaded and allowed to settle for the required 91 hour minimum settling duration, the tool was then used to complete four test batch runs this month.

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

The W&FM Project focused on delivering safe, compliant performance.

ARRA

Weekly and monthly Recovery Act Reporting continued. TRU Program shipped 25 m³ transuranic mixed (TRUM) waste to Perma-Fix Northwest (PFNW). Mixed/Low Level Waste: M-91-42 – shipped 18.6 m³ and completed 1.2 m³ during the month, M-91-44 TPA – shipped 60 m³ and completed 74 m³ during the month. TRU Retrieval removed and shipped Trench 17 Boxes 81, 1, and 2 (54.4 m³ each) to Central Waste Complex (CWC), excavated and removed three contact handled (CH) containers (101 m³) and four remote handled (RH) containers (17.7 m³) from 3A Trench 8, and over-packed and shipped four previously retrieved 4B Trench 11 containers (12.5 m³) to CWC and PFNW. Next Generation Retrieval (NGR) validated the ANTECH Mobile Passive/Active Neutron (PAN) Assay Trailer and completed Drum Venting Station (DVS2) operating procedures. TRU Repackaging processed 76 parent drums – created 78 offspring drums; generated five drums from glovebag change outs; compacted 151 empty parent drums, and generated 25 full puck drums. TRU Programs: Non Destructive Examination): 578 drums, Non Destructive Assay: 647 drums; TRU Disposition continued TRU Waste Shipments to Idaho – seven shipments, and shipments to the Waste Isolation Pilot Plant (WIPP) – four shipments; continued interface with CCP for the remaining Hanford certified backlog, all but six drums assigned to SWB build list and the balance to be repacked and processed in the CCP process.

Base

The WFMP continued maintaining facilities in a safe and compliant condition. Waste Encapsulation and Storage Facility (WESF) issued Project Execution Plan for K1 & K3 heating, ventilation, and air conditioning upgrades and issued the Alternative Analysis for review. Canister Storage Building (CSB)/Interim Storage Area (ISA) completed relocation of Multi-Canister Overpack (MCO) H-006 to storage vault using the MCO Handling Machine (MHM). T-Plant shipped 113 containers from T Plant and received 93 containers to T-Plant. Central Waste Complex (CWC) shipped 15 on-site transfers (355 containers), received 21 on-site transfers (493) containers, received two offsite shipments (114) containers, and shipped nine offsite shipments (34 containers). Low-level burial grounds (LLBG) Mixed Waste Trench (MWT) – Received five shipments, 17 containers, MWT – Shipped five leachate tankers to Effluent Treatment Facility (ETF). Liquid Effluent Facilities (LEF) received 43 tankers (40k gallons). Slightly Irradiated Fuel (SIF) completed required crane operator training and turnover of the Lampson Manitowoc 999 crane lease from Mission Support Alliance (MSA) to Grant Construction to support Phase II construction of the Container Restraint System (CRS).

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 September is summarized in the table below.

Activity	September		Cumulative	
	Planned	Completed	Planned	Completed
Well Drilling (# of wells) -352	15	18	286	278
Well Decommissioning (# of wells) -350	23	2	175	176
200 West P&T – Final Design (%)	20	16	100	99
200 West P&T – Construction (%)	16	7	38	29.8
200 West P&T – Testing/Startup (%)	3	1	14	16
100 DX P&T – Construction/Startup (%)	4	0 ⁽¹⁾	98	98 ⁽¹⁾

⁽¹⁾ The performance report that includes CTD shows that the DX construction calculation is 100% complete. The CTD BCWP includes \$3.5M worth of work performed well ahead of schedule in Fiscal Year 2009.

Base

Base work includes the pump-and-treat operations, CERCLA remedial processes, and documentation for the River Corridor and Central Plateau. Phase 2 realignment construction actions and acceptance testing of affected components at the KR4 system were completed. Phase 2 realignment construction actions were completed at the KX system and acceptance testing is 98% complete. The second of three rounds of aquifer tube sampling was completed at the 100-HR-3 Operable Unit. Sampling and groundwater treatment completed in September includes the following:

- 168 well locations were sampled with a total of 952 samples being collected
- 167 aquifer tube samples were collected from 51 tubes at 27 sites
- 17.86M gallons groundwater treated by ZP-1 treatment facility
- 18.65M gallons groundwater treated by KX treatment facility
- 8.61M gallons groundwater treated by KW treatment facility
- 8.78M gallons groundwater treated by KR-4 treatment facility
- 7.19M gallons groundwater treated by HR-3 treatment facility
- 1.28M gallons groundwater treated by DR-5 treatment facility

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

ARRA

Load out of 224U and 224UA structures demolition debris continued.

Upper Arid Lands Ecology (ALE) demolition activities have continued. Demolition of T520-6, 6635, and 6637 was completed. Cold and dark and characterization activities on 623A, 6632, and 6635 were completed. ALE debris pile site cleanup activities were resumed.

Asbestos abatement activities in the operating and pipe galleries at U Canyon are in progress. Contracts have been placed for grout, core drilling, and haul road in preparation for placing grout in the canyon. Surveys have been performed for siting the grout batch plant.

Beryllium samples have been taken in the canyon and sent for analysis toward down posting the canyon as a potential beryllium contaminated facility.

Loadout of the 272E Building was completed. Demolition of the 284E coal conveyor and crusher house was initiated. Asbestos abatement and containment construction in 284E have continued. Cold and dark beryllium sampling and characterization activities on the 200 West structures have continued.

Cleanup of North Slope debris pile sites have been initiated.

CERCLA documentation for railcars progressing as planned.

Remediation activities continued in the Outer Zone at BC Control area, CW-3 waste sites, and MG-1 waste sites. BC Control Area removed approximately 32,000 tons of soil in September; approximately 69 acres of BC Control Area, Zone A, have been cleared to date. Initial excavation at CW-3 waste site 216-N-4 has been verified complete by sample results, the closure documentation is being prepared. Initial excavation of waste site 216-N-6 has been completed and verification samples are pending. Approximately 1,000 tons of soil was removed from CW-3 sites during September.

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

Base

Planned surveillance and maintenance (S&M) activities continue. Initial Beryllium characterization sampling was completed at 209E, PUREX, and 224T.

Planning and remediation was initiated on the failed Confirmatory Sampling No Further Action (CSNFA) sites in MG-1.

RL-0041 Nuclear Facility D&D, River Corridor

ARRA

Facilities

Work continued on 105KE Reactor Disposition Interim Safe Storage activities. Hazardous material removal and asbestos abatement were completed for the reactor building. Demolition on the west side of the reactor building was initiated. The Documented Safety Analysis (DSA) changes and waste and transportation documentation were completed for demolition of the K East discharge chute.

Above-grade demolition of 115KE Gas Recirculation Building and 117KE Exhaust Air Filter Building were completed.

Pot-holing concrete and cleanup of the 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building below-grade levels were completed.

Demolition of the 183.2KW Sedimentation Basin continued.

Demolition of the 183.3KW Sand Filter and the 183.7KW Tunnel was completed.

Characterization of the 183.1KE Head House continued.

Waste Sites

The following table lists sites that were initiated under ARRA. In BCR-PRC-10-047R0, ARRA to Base Shift for 100-K-63 and Waste Sites with Extent of Contamination waste volumes beyond the original ARRA planned quantities (as well as remaining RTD work including sampling, closeout, backfill, and re-vegetation) have been moved to Base for the following waste sites: 116-KE-3, 120-KW-1, 100-K-34, 100-K-18, 120-KW-2, 100-K-71, 100-K-68, 100-K-69, 100-K-70, 100-K-56, 100-K-47, 100-K-3, and 100-K-102. The work sites and their current month production are shown in the table.

Active Excavation on ARRA Waste Site	Sep-10		Inception to Date (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-3	-	-	5,507	392
100-K-42	-	-	9,688	660
100-K-47	-	-	17,393	1077
100-K-56	-	-	11,839	740
100-K-68	-	-	9,477	476
100-K-71	-	-	7,569	467
100-K-102	2394	117	18,035	942
116-KE-3	-	-	4,328	217
120-KW-1	5,911	275	28,810	1,514
183.1-Soils	-	-	12,291	625
183.1-Debris	-	-	9,038	562
100K-63	28,859	1320	56,547	2635
100-K-53	-	-	350	24
Total	37,164	1,712	190,872	10,331

Active excavation work continued at 100-K-63, 120-KW-1 and 100-K-102.

Waste site 120-KW-1 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. This site was advanced from 15 feet below grade to 18 feet below grade in order to successfully remove the contamination. Residual contamination above cleanup levels exists beyond 18 feet below grade; therefore, additional remediation is required.

Waste site 100-K-63 is being excavated under contract direction that establishes a not-to-exceed value of \$7.5M. Begun with ARRA funding, this waste site shifted to Base funding starting in the month of September per BCR-PRC-10-047R0 and Change Order 92. An intensive sample campaign was conducted to determine the extent of contamination within the waste site. Sample data is expected from the laboratory in mid-October. During excavation, a culturally significant area was identified. CHPRC and RL are working together to determine what, if any, impact may be realized from the discovery.

Additional excavation is pending in 100-K-42, 100-K-47, and 116-KE-3. Work remains suspended on UPR-100-K-1 (work performed as 100-K-42), 100-K-3, 100-K-53, 100-K-56, 100-K-68, 100-K-69, 100-K-70, 100-K-71, 100-K-77, and 116-KE-1 until D4 completes their activities in the immediate areas. 100-K-57 and 100-K-64 are suspended pending contractual action and preparation of a Cultural Mitigation Action Plan. Only those 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 completed in K West Basin West Bay and began in the North Load-Out Pit with a targeted completion date for sludge removal of October 8, 2010. Over 610 debris units have been removed from the K West Basin to date.

HVAC Project: Construction completion and operational startup of the K West Basin Airborne Contamination Remediation Project has been completed. Approximately 810 linear feet of interior ventilation ducting has been installed with drops and diffusers, and three HVAC/HEPA filtrations units have been installed. Construction Acceptance Testing was completed as well as completing turnover to operations.

Electrical Project: Completed the A9 project which included the installation of portable substations, trench excavations, installation of 20 pull boxes and hand holes, installation of approximately 15,000 linear feet of conduit, approximately 1,500 feet of duct bank, and repairing an existing damaged ground grid that was discovered during trench excavation. The 13.8kV Reroute project completed the installation of 21 new poles, aerial conductors, tie switches, and pole mounted transformers. Construction completion was jointly reviewed with CHPRC and MSA Electrical Utilities (EU) and punch lists of post-start issues were identified.

Water Project: Completed the installation of approximately 25,000 feet of underground water line starting from Helen's Junction to inside the 100K Area with final tie-ins pending MSA Fire Marshal approval. Completed the installation and testing of the dual-purpose fire and water reservoir tank. The Water Project is completing the remaining fire suppression, fire detection activities, and working with fire protection to obtain design approval. The Pall Microfiltration Units have been installed with Operational Testing scheduled for October 18, 2010, with results being sent to the Washington State Department of Health for concurrence to start potable water operations. Hydroseeding of the export water line excavation site has completed, and paving of Route 1 is complete.

Base

Facilities

105KE Reactor Disposition Engineering Evaluation/Cost Analysis (EE/CA), Draft A, was transmitted to the regulators and is pending imminent release for public comment. The report on developmental testing of the bio-shield wall demolition and thermal shield removal was completed. The 60% design submittal is re-scheduled for mid-November to allow for Critical Decision 0/1 to be approved by RL.

Continued deactivation of 110KW Gas Storage Facility

Completed characterization and continued deactivation of the 115KW Gas Recirculation Building

Continued sampling and deactivation of the 117KW Exhaust Air Filter Building

The 118KW Horizontal Control Rod Storage Cave has been decontaminated and is ready for demolition

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, respectively. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed.

Deactivation is on hold for four K West mobile offices to be removed as a group (MO236, MO237, MO323, and MO955) once the occupants have been moved to other buildings

Waste Sites

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

Waste Site	September 2010		Cumulative (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-4	-	-	2,989	210
1607-K3	463	22	2,304	103
100-K-109	-	-	7,502	413
Totals	463	22	12,795	726

Samples from waste site 1607-K3 indicated a portion of the site contained contamination above the remedial action goals. Excavation and removal of the contaminated soils was conducted. The wastes were contained and shipped to ERDF for disposal.

RL-0042 Fast Flux Test Facility (FFTF) Closure

The Fast Flux Test Facility (FFTF) is being maintained in a low-cost surveillance and maintenance 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 the American Recovery and Reinvestment Act.

KEY ACCOMPLISHMENTS

RL-0011 Nuclear Materials Stabilization and Disposition

11.02 Maintain Safe and Compliant PFP – Base

- The Plutonium Finishing Plant is continuing to operate in a safe and compliant manner

11.05 Disposition PFP Facility – Base

Plutonium Reclamation Facility (PRF)

- The pH glovebox was removed, placed into a Standard Waste Box (SWB), and shipped
- The electrical isolation of the maintenance glovebox was completed
- Corrective actions associated with breathing air issues were completed and the suspension on breathing air work was lifted
- Two canyon entries were conducted to troubleshoot the problem with the canyon crane

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

- In RMA Line Room 235B, the team completed RadPro[®] chemical decontamination and the associated radiological surveys in Gloveboxes HA-21I, HA-22, and Conveyor HA-28. All of these gloveboxes will require size reduction and will be disposed as TRU waste.
- In RMA Line Room 232, the isolation of the external mechanical connections to Glovebox HA-46 was completed and preparations continued for a characterization entry into the HA-46 process cell
- In RMC Line Rooms 228A and 228B the first increment for the removal of process transfer lines was completed
- In RMC Line Room 230C, Glovebox HC-60 was relocated to Room 192 to perform low background assay and work continued for the removal of Gloveboxes HC-230C-3, HC-230C-4, and HC-230C-5

- In the RADTU Room 235D work continued on the mechanical isolation for GB200

Analytical Laboratory:

- Process equipment removal was completed, and decontamination efforts commenced for the six Gloveboxes in Room 139
- The 137-1, 2, 3 and 149-1, 2 Gloveboxes were size-reduced and loaded into SWBs for disposal as TRU waste
- The 144-5, 6, 7, 8 Hoods were mechanically isolated, decontaminated, and removed from the room. These hoods were turned over to the SWO organization for disposition as LLW.

Plutonium Process Support Laboratories:

- The 180-85 Glovebox was mechanically isolated, decontaminated, separated from its E4 connection, and transferred to Solid Waste Operations for disposition

242Z Americium Recovery Facility

- Completed changing the E-3 filters located in Room 262 of 234-5Z successfully increasing the ventilation flow to the level required to support D&D
- Completed installation and testing of a new containment tent for entry into 242Z

2736Z/ZB Vault Complex

- Electrically isolated and removed the electrical conduit supporting Room 642 gloveboxes and Room 641 equipment
- Removed approximately 70% of the shielding around the gloveboxes in Room 642
- Removed GB636 and GB642F from the facility and transferred them to SWO for NDA and disposal

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

- CHPRC has approved and released PRC-STP-00270, *Data Validation and Assessment by the Sludge Treatment Project for Characterization Data from Engineered Containers SCS-CON-220, 240, 250 and 260*. This is the validation and assessment report for the in-basin and laboratory characterization data for the sludge sampled from the listed engineered containers. It provides the final reviewed set of analytical data together with statistical analyses and comparisons against the data from previous characterization campaigns.
- An Alternatives Analysis working group held a down-select meeting for the K West Basin Integrated Water Treatment System (IWTS) Garnet Filter Media Disposition. In the meeting, subject matter experts and project management from the STP discussed various alternatives for the removal, packaging, and interim storage of the approximately 6.9m³ of garnet filter media currently stored in the northwest corner of the K West Basin Transfer Bay. These alternatives were rated based on five criteria: safety, regulatory/stakeholder acceptance, technical maturity, operability and maintainability, and programmatic aspects.
- AREVA Federal Services completed its benchmarking of the LS-DYNA finite element analysis model to the original ABAUS model for the structural evaluation of the STS/Large Diameter Container (LDC).
- MASF established an internal checklist system to be prepared for test technicians to follow when using the K Basin monorail system mockup during test activities.
- The project issued an Expression of Interest for the STP Alternative Interim Storage Facility to solicit interest from prospective bidders. STP received six expressions of interest from architect/engineering firms for performing the conceptual design.

- The STP External Review Panel was held this month. The panel reviewed ongoing progress of the KOP Subproject, the progress on preliminary design and testing for the ECRTS subproject, and the status of the Phase 2 Technology Evaluation and Alternatives Analysis. The team also toured the recent upgrades and test installations at MASF. ERP report to be issued mid-October.
- Progress of note on the Phase 2 contracts include:
 - Immobilization of sludge with BoroBond with Hydrogen generation and pressure data collection and oxidation of uranium metal with acidification and Fenton's reagent are both progressing under the Ceradyne contract
 - U metal loss (i.e., conversion rate), peroxide concentration, pH and off-gas volume and composition data is being collected by tests being conducted by Energy Solutions
 - IMPACT Services has submitted its final Dryer Test Report and is preparing for full scale testing

RL-0013 Waste and Fuels Management Project

ARRA

13.01 Project Management

- Completed weekly and monthly ARRA reporting
- Continued Project Management support for fast track projects

13.04 Mixed Low Level Waste (MLLW) Treatment

- Shipped the "Hexone" box from the Energy Solutions (ES)-Clive Site to PFNW where it will be treated to meet Hanford's disposal requirements
- Shipped four 50-plus year old radiologically contaminated acetylene bottles from U-Plant to a processor in Tennessee
- M-91-42 Tri-Party Agreement (TPA) – Small Container contact handled (CH) MLLW
 - Total for month: 18.6 m³ shipped and 1.2 m³ completed
 - Since January 2003: 8,238 m³ shipped and 8,192 m³ completed
- M-91-43 TPA – Remote handled (RH) & Large Container MLLW
 - Total for month: 0 m³ shipped and 0 m³ completed
 - Since January 2003: 731 m³ shipped and 711 m³ completed
- M-91-44 TPA – Large Container TRUM Repackaging
 - Total for month: 60 m³ shipped and 74 m³ completed
 - Accumulated total: 109 m³ shipped and 89 m³ completed

13.05 TRU Retrieval

- Removed and shipped Trench 17 Boxes 81, 1, and 2 (54.4 m³ each) to Central Waste Complex (CWC)
- Excavated and removed three contact handled (CH) containers (101 m³) and four remote handled (RH) containers (17.7 m³) from 3A Trench 8
- Over-packed and shipped four previously retrieved 4B Trench 11 containers (12.5 m³) to CWC (3) and Perma-Fix Northwest (PFNW) (1)
- Performed integrity test on Trench 17 Box 12; box integrity passed which allows removal plans to proceed
- Completed assay of the repackaged contents of Trench 17 Box 82 at CWC
- Shipped four secondary waste containers to PFNW
- Completed 4B Trench 11 initial sub-surface survey
- Next Generation Retrieval (NGR)

- Validated the ANTECH Mobile Passive/Active Neutron (PAN) Assay Trailer, Retrieval and Drum Venting Station (DVS2) operating procedures
- Validated and approved Gamma Assay operating procedure
- Completed the Automated Job Hazard Analysis (AJHA) for the DVS2 Operating procedure
- Completed retrieval and excavation procedures which are now approval ready pending decision if a Hazard Review Board (HRB) meeting will be required
- Completed Real-Time Radiography (RTR) System conveyor alignment and resumed the acceptance/operational testing of the system

13.06 TRU Repackaging

- Shipped greater than 25 m³ transuranic mixed (TRUM) waste to Perma-Fix Northwest (PFNW) for repackaging
 - Initiated Non-destructive assay (NDA) of the repackaged containers at PFWN
 - Confirmed the first TRU/M “repacked” waste packages originating from the Large Container TRU/M activity
- Processed 76 parent drums – created 78 offspring drums
- Generated five drums from glovebag change outs
- Compacted 151 empty parent drums – generated 25 full puck drums

13.07 Waste Receiving and Processing Facility (WRAP)

- NDE: 578 drums (398 for CCP)
- NDA: 647 drums (353 for CCP)
- Received 51 TRU drums from the Plutonium Finishing Plant (PFP)
- Management Directive (MD) on source shipments reworked and in final review
- Continued Headspace and Flam Gas Sampling (361) in support of CCP
- Continuing High-Efficiency Neutron Counter (Super HENC) operations, including walk-downs, new procedure validations, and initiation of Non-WIPP standard waste box (SWB) assays
- Successfully completed a full-up emergency action level drill
- Successfully executed two recovery plans to contain, decontaminate and mitigate damaged/contaminated waste drum in 2404WB
- Continuing infrastructure project for High Energy Real-Time Radiography (HERTR) assembly

13.15 Solid Waste Base Operations

- Readied the Super-7A Overpack for service (loaded base on transporter and performed dry-run on cover closure)

13.16 TRU Disposition

- Continued TRU Waste Shipments to Idaho: Current Month total - 7, Total to date - 38
- Shipments to the Waste Isolation Pilot Plant (WIPP): Current Month total – 4, Total to date – 53
- Continued interface with CCP for the remaining Hanford certified backlog
 - All but six drums assigned to SWB build list
 - Balance to be repacked and processed in the CCP process
- Supported Large Box Pilot Project at Perma-Fix
- RH/CH Interface
 - Initiated planning and communication with Operations and Support organizations to develop a Rough Order of Magnitude (ROM) cost and schedule for initiating RH-TRU waste shipment

- Supported Waste Services for the review of the U Plant, Tank D-10 relocation to T Plant waste profile

Base

13.02 Capsule Storage & Disposition

- Waste Encapsulation and Storage Facility (WESF)
 - Continue support of roof upgrades
- WESF K1 & K3 Heating, Ventilation, and Air Conditioning Upgrades
 - Project Execution Plan issued
 - Alternative analysis issued for review
 - Preferred alternative essentially replicates existing system with tie in downstream of existing high-efficiency particulate air (HEPA) filter housings
 - Further risk analysis to be performed regarding tie in location and leaving existing filters in place

13.03 Canister Storage Building

- Completed relocation of Multi-Canister Overpack (MCO) H-006 to storage vault using the MCO Handling Machine (MHM)
- Completed annual “Ready to Serve” demonstration activities for MCO cask handling activities
- Continued to support Container Restraint System (CRS) construction activities
- Completed relocation of Interim Storage Casks (ISCs) at the ISA in support of CRS

13.07 Waste Receiving and Processing Facility (WRAP)

- Maintain the facility in a safe and compliant condition

13.08 T Plant

- Shipped 113 containers from T Plant
- Received 93 containers to T Plant
- Elevator Repair
 - Elevator repair was completed this month and returned to full service over two weeks ahead of schedule
- ACT II Filter Replacement
 - The Act-II filter was replaced on September 13 and tested throughout the week, final DOP testing with Vent and Balance group completed September 21 and turned over for facility use on September 22
- 216-Z-9 Repack Campaign
 - Most Z-9 containers fall into the configuration of an unvented 90 mil liner, so Z-9 drums as part of the Justification for Continued Operation (JCO) are in the process of being vented at T Plant 2706-T Facility, venting will speed up as more venting units are installed into the Act II unit. Processing of Z-9 drums will commence once the JCO has run its course.
- MO-459 Water Line
 - The water has been restored to MO-459 (women's change trailer), construction services had to cut asphalt, dig down to find the leak, repair broken joint, test the water, then backfill and replace the asphalt

13.08 Central Waste Complex (CWC)

- Shipped nine offsite shipments, 114 containers
- Shipped 15 on-site transfers, 355 containers

- Received 21 on-site transfers, 493 containers
- Received two offsite shipments, 114 containers
- LLBG
 - Mixed Waste Trench (MWT) – Received five offsite shipments, 17 containers
 - MWT – Shipped five leachate tankers to Effluent Treatment Facility (ETF)
- Completed transuranic (TRU) Retrieval Support: Medium Box Repair-Construction completed placement of covers, five total, on medium damaged boxes
- Shipped third and final low flash point unit from CWC to ERDF
- Super 7A box: Received final tie down approvals from transportation for inclusion into work package. Procured and received hardware to support tie down instructions to secure base to platform. Configured Terex trailer to accept Super 7A box base to trailer and tied down base to trailer. Dry-run to secure top to base scheduled for October 4, Perma-Fix invited to attend. First shipment scheduled for October 7.
- Fire Systems: All fire system issues noted above were properly entered and logged in accordance with fire hazards analysis (FHA)/Master Documented Safety Analysis (MDSA) requirements

13.11 Liquid Effluent Facilities (LEF)

- Received (September) 42 tankers (40k gallons)
- Treated effluent to State-Approved Land Disposal Site: 0.5M gallons; (CY 12.7M gallons)
- 200A Treated Effluent Disposal Facility (TEDF) discharged 114M; (CY 289M gallons)
- Received Environmental Restoration Disposal Facility (ERDF) leachate (158k gallons) at Liquid Effluent Retention Facility (LERF) Basin 43
- Shipped 20 drums of waste to the ERDF
- Transferred 40 drums to Sump #1 for processing through the evaporator
- Supported Washington River Protection Solutions, LLC, for two campaigns of 242-A Evaporator waste reduction
- Received 16 drums of Waste Sampling and Characterization Facility wastewater
- Completed Basin 44 Campaign (processed 2.9M gallons)
- Initiated Basin 43 Campaign (processed 100k gallons)
- 300 Area Facilities
 - Transferred ownership of 310 and 340 facilities as well as MO-744 and MO-443 to Washington Closure Hanford, LLC
 - Continued operations of the Retention Transfer System (RTS); 21 batches (634k gallons) discharged to City of Richland
 - Continued RTS training for nuclear chemical operators and shift operations managers

13.12 Integrated Disposal Facility

- Completed required annual inspections and calibrations

13.16 Off Site Spent Nuclear Fuel (SNF) Disposition

- Slightly Irradiated Fuel (SIF)
 - Initiated Phase II of construction for Project W-105, Interim Storage Cask Pad #3 – Container Restraint System (CRS), after completion of cask transfers to the pad
 - Completed required crane operator training and turnover of the Lampson Manitowoc 999 crane lease from Mission Support Alliance (MSA) to Grant Construction to support Phase II construction

- Completed tacking of lower seismic restraints and capture frame assemblies into position at the CRS and initiated welding into place
- Initiated mobilization of resources to form concrete around the metal columns at the CRS

13.21 Mixed Waste Disposal Trenches

- Maintained the trenches in a safe and compliant condition

RL-0030 Soil and Groundwater Remediation

ARRA - GW CAPITAL ASSET

Drilling	September		Cumulative	
	Planned	Completed	Planned	Completed
M-24 -5 wells	0	0	5	5
200-ZP-1 West P&T Expansion -17 wells	1	2	14	15
Drilling Total	1	2	19	20

EPC Projects in Support of S&GRP - ARRA

- 200 West Area Groundwater Treatment Facility – Five accelerated Phase II road crossings have been completed. The S/SX transfer building is under construction with all eight road crossings completed. All welding activities for the transfer piping have been complete for the Phase I well to transfer building runs, activities scheduled to begin for Phase II accelerated piping in October. Structural steel erection has been initiated at three of the seven buildings. Long-lead equipment is being fabricated with the first to arrive in October.
- Construction of all three buildings for the 100-DX Pump-and-Treat is complete, with the exception of the pH adjustment system at the Process Building and punchlist items. The Key Performance Parameter for completion of the M1 and M2 Transfer Buildings was transmitted to DOE with a completion date of August 26, 2010. Acceptance Testing is underway; all 24 ion exchange vessels and associated piping have been checked for leaks and filled with resin as of September 22, 2010.
- 200E Unsecured Core Complex – S&GW2 wall framing was completed September 9, 2010
- The main floor (315 yd²) slab for EPC2 was placed on September 16, 2010
- EPC1 Build out contract work was started on September 21, 2010 and all of the underground was installed by September 23, 2010
- The contract for the interior build out for S&GW1 was awarded on September 17, 2010
- The Unsecure Core Mobile Site West was turned over for occupancy on September 15, 2010

EPC Projects in Support of S&GRP – Base

- Construction has begun on the 100-HX Pump-and-Treat Construction Project. The Process Building concrete foundation was poured on September 2, 2010. Steel frame erection for the process building was completed on September 20, 2010. The design/build contract modification for the H1 Transfer building was completed on September 22, 2010. Ten of 27 road crossings are complete. HDPE pipe laying and bonding is 45% complete.

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

	September		Cumulative	
	Planned	Completed	Planned	Completed
KR-4 RPO – 4 wells	0 *	0	0	0
KR-4 RI/FS – 13 wells	0 *	2	8	6
100-NR-2 Barrier Emplacement – 171 wells	25	0	171	171
100-NR-2 RI/FS – 8 wells	1	0	1	0
100-HR-3 Bioremediation TT – 4 wells	0 *	0	0	0
100-HR-3 H Area RPO – 40 wells	0	8	40	37
100-HR-3 D Area RPO – 30 wells	0	0	30	30
100-HR-3 RI/FS – 15 wells	0 *	0	0	0
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	2	1	8	6
100-FR-3 – 3 wells	0	2	3	2
300 FF-5 RI/FS – 11 wells	1	3	3	3
*RL-030 BCR-054 realized risk – metrics realigned	-15 *			
Drilling Total	14	16	267	258
Decommissioning Total	23	2	175	176

BASE - GW OPERATIONS**Environmental Strategic Planning:**

- Coordinated the September 16, 2010 Senior Executive Committee (SEC) meeting in Seattle, WA
- Developed a proposed outline for the “next generation” Central Plateau Cleanup Completion Strategy document and began drafting the document

Risk and Modeling Integration Group:

- Worked on development of the planning/baseline plan for modeling in support of the Deep Vadose Zone Project and the Integrated Disposal Facility (IDF) performance assessment
- Completed the IDF and Low-Level Burial Ground annual performance assessment update revisions to reflect DOE-HQ comments
- Finalized calc briefs for the alternatives evaluation for the 200-UP-1 FS
- Submitted a plan for the Soil Background Update to DOE

Integration Management:

- The charter for the Deep Vadose Zone Multi-Project Team has been signed by RL. The first Deep Vadose Zone MPT (which includes the regulators) has been scheduled.
- Conducted three River Corridor RI/FS scoping meetings to refine FS alternatives, provided status on supplemental tasks that are being performed to support the RI/FS documents, and addressed Vadose zone modeling issues. Resolved technical issues that impact implementing exposure scenarios. Developed the path forward approach for ten technical issues that support completion of the decision documents.

Document Review and Standardization:

- EDIT team is working with the 100 Area D/H RI/FS and the 200-WA-1 Work Plan teams
- Conducted two meetings with the EDIT to review comments and make document improvements

River Corridor

100-BC-5 Operable Unit - Base

- Well construction was completed on well C7508. Drilling and sampling progressed on C7784 to a depth of 133 feet below ground surface (bgs).
- Slug-testing activities were completed on the two new RI/FS wells (C7508 and C7786)
- Two RI/FS boreholes, C7842 and C7843, were drilled and sampled. C7842 has been decommissioned, and C7843 is being converted to a temporary well to allow for adequate groundwater sampling conditions. The final groundwater sample from this borehole (now a temporary well) has not yet been collected.
- The third and final round of spatial-and-temporal groundwater sampling from existing wells for 100-BC was completed

100-FR-3 Operable Unit

- Drilling, sampling, and well construction was completed on RI/FS well C7792, and well construction was completed on previously drilled and sampled well C7790. Drilling and sampling began on well C7791 and progressed to a depth of 28 feet bgs.
- Slug-testing activities were completed on the two new RI/FS wells (C7790 and C7792)
- The third round of spatial-and-temporal groundwater sampling from existing wells for 100-F was initiated with 12 of the 19 wells sampled

100-KR-4 Operable Unit - Base

- Comments to the updated KR4 Pump-and-Treat system cultural resource treatment plan have been incorporated and document is in approval process for issuance
- Well construction and development has been completed for wells C7687, C7691, C7685, and C7690. Drilling is continuing at wells C7692 and C7693.
- Drilling of RI boreholes C7831 and C7832 are complete
- Installation of new PLC components and wiring in DPC cabinet in KR-4 Transfer Building #2 for the PLC upgrade is complete. Field work initiated for remainder of KR-4 PLC and well head modifications upgrade at Transfer Building #1 and the KR-4 treatment building.
- Conducted 30% design review on the bio-infiltration system to be installed for the KW treatability test

100-NR-2 Operable Unit - Base

- Rev. 0 100-NR-2 Barrier Expansion Design Optimization Study (DOS) was approved by DOE/RL and Ecology on September 23, 2010. This DOS allows for the initial 600 foot expansion of the apatite permeable reactive barrier (PRB) in the saturated zone, to an expanded length of 900 feet, prior to full expansion under the recently amended IROD (see next item). The associated Field Test Instructions have been approved and released as Rev. 0. Delivery of the first injection skid system was made on September 27, 2010. A contractor was selected for the chemical procurement contract and has begun preparing for deliveries. All of the well packers and down-hole equipment have been installed in the first and second round injection wells.
- The 100-NR-1/2 OU Amendment to the Interim Action Record of Decision (IROD) was approved by RL, Ecology, and EPA on September 29, 2010, and was subsequently issued by EPA. This IROD amendment allows for the decommissioning of the NR-2 Pump-and-Treat system and for the installation of an apatite PRB along the entire 2,500 foot river shoreline where the Sr-90 plume currently intersects the Columbia River. The issuance of the IROD amendment by the end of FY2010 met an internal EPA milestone.

- The Draft A SAP developed to allow additional “upwelling” (river porewater) sampling to be conducted from the river bottom along specific portions of the 100-N river shoreline was reviewed by Ecology. The resulting Ecology comments were reviewed and proposed comment responses and an updated SAP were provided to Ecology for concurrence on September 29, 2010. The sampling subcontract was awarded, but approval of the SAP is required to initiate sampling.
- The Draft A demonstration-scale (300 foot) Jet Injection TTP was transmitted from RL to Ecology on September 16, 2010, for Ecology Review
- Field pilot testing of the NR-2 infiltration gallery was initiated on September 28, 2010. This pilot testing is being conducted by PNNL using water with a bromide tracer.
- A TPA Change Notice (CN) was approved by RL and Ecology for a second round of spatial-and-temporal groundwater well sampling in September prior to approval of the RI/FS Work Plan Addendum and SAP. The associated sampling was initiated with 18 of the 26 wells sampled.
- TPH studies are now complete with PNNL. The final report was issued that now includes more recently generated data.
- The Draft A TTP for conducting a “hot” demonstration-scale treatability test of Phytoextraction at the NR-2 site was transmitted to Ecology for review on September 27, 2010

100-HR-3 Operable Unit - Base

- DR-5 operated at reduced capacity (~26 gpm) to support testing of well redevelopment technologies, which increased performance at the injection well that was tested
- Drilling of the RI/FS Wells and boreholes commenced in late September
- The in situ bioremediation system design was completed, and is being issued
- The 100-HR-3 DRD/RA work plan, Integrated Sampling and Analysis Plan, Waste Management Plan, and In-situ Bioremediation Well Drilling Sampling and Analysis Plan were submitted for DOE review
- Regulator comment incorporation is ongoing for the Draft B of the Treatability Test Plan for Hexavalent Chromium Bioremediation in Groundwater at 100-D (DOE/RL-2009-105)

300-FF-5 Operable Unit – Base

- Drilling continued at the site with four monitoring well locations completed and sampled, and a fifth underway. All sampling and design work is complete for the completed boreholes. A second drill rig is on site to complete monitoring well construction.

Central Plateau

200-BP-5 Operable Unit – Base

- The Draft A 200-BP-5 Treatability Test Plan was transmitted to the regulators on September 24, 2010 for review meeting TPA Milestone M-15-82A over three months ahead of schedule
- Completed a field walk down of the proposed treatability test site with DOE on September 9, 2010

200-UP-1 Operable Unit – Base

- The Draft A 200-UP-1 OU RI/FS Report and Proposed Plan was transmitted to the regulators on September 24, 2010, ahead of schedule, for review meeting TPA Milestone M-15-17
- Completed the 90% design package for the S-SX extraction system. Completed all pipeline road crossings. Received transfer building materials and initiated placement of structural fill for the building.

200-ZP-1 Operable Unit - Base

- Eleven of 14 groundwater extraction wells are online pumping water at 439gpm. One extraction well (#5) is being kept offline due to low flow. Extraction #4 is currently offline supporting pressure pulse testing. Extraction well #6 is offline due to some communication problems between the well and the control room.
- The replacement heater/chiller unit is now online
- Extraction wells 299-W11-45 and 299-W11-46 are online pumping water to ETF at a pumping rate of approximately 55gpm
- Drilling and sampling of 18 permanent extraction/injection wells is now complete

Deep Vadose Zone Treatability Test Project - Base

- The FTP and SAP for the Desiccation Pilot Test was approved by RL and EPA. These were the two remaining regulatory documents needed to support field execution of this test.

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)
 - Continued load out activities on 224U and 224UA
- U Canyon Demolition and Cell 30 Disposition
 - A Statement of Work (SOW) contract has been issued for the haul road for the grout plant. The contract has been awarded for the cask needed to ship the T-10 tank to T Plant with an expected delivery date of December 16, 2010
 - Beryllium samples have been taken and sent for analysis in order to down post the canyon as a potential beryllium contaminated facility
 - Asbestos abatement activities continue in the pipe and operating galleries
- 200E Project
 - Completed load out of asbestos piping from the 284E exterior steam pipes
 - Completed demolition of 272E
 - Completed demolition and demobilization of 275E
 - Initiated demolition of conveyor and crusher house at 284E
- 209E Project
 - Continued 209E characterization and cold and dark planning activities
 - Began work on the Documented Safety Analysis (DSA) implementation and Independent Verification Review (IVR) process pending the approval of the DSA. Completed fencing around the facility.
 - Continued efforts to place the non-destructive assay (NDA) support contract. Completed activities for trailer installation at the site and obtained occupancy permits for all the trailers.
- 200W Project
 - Continued with characterization activities.
 - Continued Cold and Dark activities.

ARRA – Outer Zone D&D

- BC Controlled Area Waste Site Remediation
 - Remediation using super dump trucks continued with approximately 224,000 tons cumulative to date of soil removed and transferred to ERDF
- 200-CW-3 Waste Sites
 - Excavation of site 216-N-4 is complete with approximately 36,350 tons of soil (cumulative) removed and transferred to ERDF
 - Excavation of RTD site 216-N-6 is awaiting verification sampling
 - The response action completion documentation for waste site 216-N-1 was approved with closure documentation forwarded to regulators for approval
 - Excavation of pipeline 600-286-PL commenced with approximately 1,400 tons removed and transported to ERDF
 - Seven waste sites (600-285PL, 2607N, 2607P, 2607R, 200-N-3, UPR-200-N-1, and UPR-200-N-2) have been remediated/evaluated with the reclassification approved
- MG-1
 - Reclassification/closure documentation for eight waste sites (200-E-101, 6607-2, 6607-1, 6607-3, 200-E-110, UPR-600-21, 600-51, and 600-262) has been submitted for approval
 - Site 600-37 is a CSNFA site with confirmatory sampling completed with acceptable results. Closure documentation has been prepared and is awaiting Remedial Action Work Plan (RAWP) approval.
 - Six waste sites (600-36, 600-38, 600-218, 200-W-33, UPR-600-12, and 600-222) were originally planned CSNFA, however sampling of the sites indicated some excavation will be required.
 - Excavation of waste site 600-275 was completed
 - Preparations to excavate 600-222 are awaiting approval of the RAWP, which is in review
 - Initial excavation for site 600-40 was completed and initial verification samples were collected. Following additional excavation, in-process samples were found to be within the Remedial Action Level (RAL). The verification sampling instruction was issued for verification sampling in September.
 - The Remedial Action Work Plan (RAWP) that was updated to include 37 waste sites added with the approved Action Memorandum (AM) is with Ecology for review
 - The additional excavation of site 600-36 that was performed in August, evaluation of sampling results in September indicate no further excavation necessary
 - CSNFA sampling is continuing at the Old Central Shop Area site
- ALE D&D
 - Continued cold and dark and characterization on the remaining upper ALE facilities
 - Complete demolition of T520-6, 6635, and 6637 on upper ALE
- North Slope
 - Initiated Debris Pile cleanup activities
- Railcars
 - RAWP submitted to RL for review
 - Engineering Evaluation / Cost Analysis (EE/CA) submitted to EPA for review

Base

Based on verification samples, additional excavation of 600-38 performed in August, evaluation of sampling results in September indicate no further excavation is required.

RL-0041 Nuclear Facility D&D, River Corridor

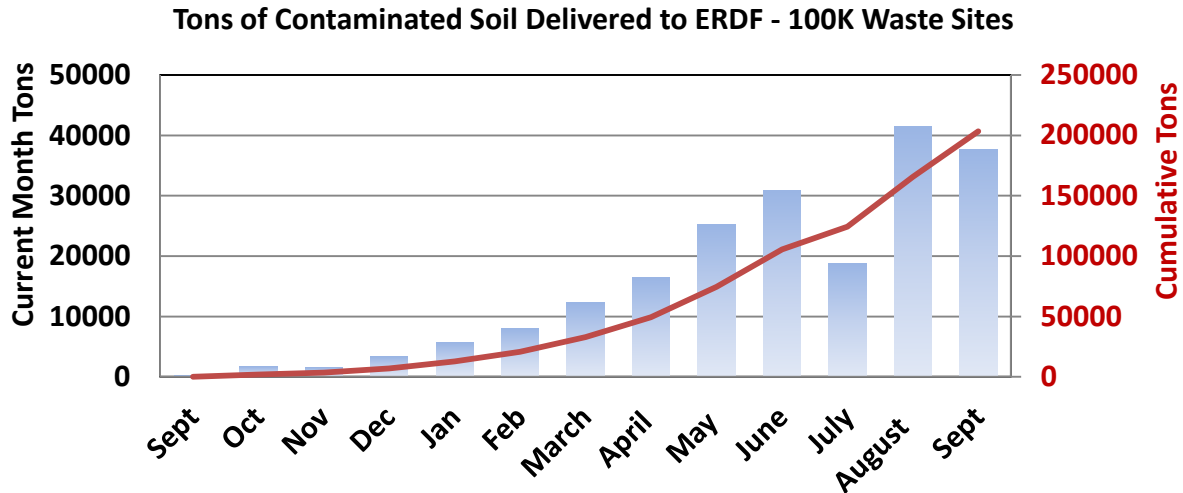
ARRA

Facilities

- 105KE Reactor completed hazard material removal and asbestos abatement of the reactor building, initiated demolition on the west side of the reactor building, and completed the report on developmental testing of the thermal shield removal and bioshield wall demolition. The K East discharge chute demolition completed DSA changes, and completed Waste and Transportation documentation.
- The 115KE Gas Recirculation Building sampling results require installation of grout ports on the tanks which will then be grouted at ERDF; this work requires a tie-down analysis and Special Packaging Authorization from RL, which is in process. Above-grade demolition was completed and the facility has been turned over to the Waste Site Remediation team to remove the below-grade structure as part of their waste site. The 117KE Exhaust Air Filter Building above-grade demolition was completed and the facility was turned over to the Waste Site Remediation team to remove the below-grade structure as part of their waste site.
- The 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building completed final concrete removal. The substructures have been turned over to Waste Site Remediation's subcontractor for removal with their adjacent waste sites.
- Demolition of the final South wall re-started for the 183.2KW Sedimentation Basin and should finish early in October, along with a few sumps that were previously planned to be left in place. The debris will be stock-piled for re-use as clean fill.
- Glycol removal was completed for 165KE. Glycol has been drained from all but 115KW and 165KW and will be performed as fill-in work during October. Final check of the 165KE glycol lines will be made after the boiler room asbestos is removed, which is approximately six months out.
- Completed demolition of the 183.3KW Filter Basin. Demolition took several months longer than planned as the footers were found to be 7-10 foot thick, instead of the standard depth shown on the drawings. This resulted in significantly more ERDF debris than planned.
- Demolition completed on the 183.7KW Tunnel pipe gallery
- Characterization of the 183.1KE Head House should complete in December. Deactivation was placed on hold and will complete after major electrical and water system upgrades are completed this fall, and sample results of adjacent waste tanks are received. The lab doing the sample analysis is currently under a "stop work" situation, which is impacting sample turnaround times.
- The 183.4KW and 183.4KE Clear Well final deactivation was placed on hold and will complete after major electrical and water system upgrades are completed this fall

Waste Sites

Work progressed somewhat slower than expected for the month of September. The first operational week realized slower-than-normal container exchanges due to a non-work related condition that impacted the transportation group. Minor weather delays were caused by wind and rain during the month. Cultural discovery and ensuing visits and investigations also impacted work. As a result, the monthly total for September was somewhat diminished from previous months but still above plan.



HVAC Project

- Completed shop fabrication and installation of interior/exterior duct connections to HVAC/HEPA Units
- Completed installation of all 810 feet of insulation for the interior ducting
- Completed installation, testing, and turnover to operations of the three HVAC/HEPA Units

Electrical Project

- Completed installation of new power feed for MO401/MO402 parking lot lights
- Completed tie ins to the new Water Treatment Building, MO500, and MO293
- Completed installation of all of the new 13.8Kv poles (20 total)
- Successfully installed, tested, and energized the new A-9 Switchyard transformers and switchgears

Water Project

- Completed installation of all fire water piping in the 105KW/CVDF fire loop and awaiting Fire Department approval
- Successfully performed the Import Water Line tie-in at Helen's Junction
- Continued installation of process piping and mechanical components inside the Water Treatment Plant building
- Successfully filled and hydro tested the 750,000 gallon dual-use water tank
- Completed installation of the two Pall Microfiltration Unit Trains inside the Water Treatment Building

Other

- Completed sludge vacuuming in the West Bay of the K West Basin and began vacuuming in the North Load-Out Pit. Completed the preventative maintenance activities and the multi-canister overpack (MCO) proficiency test. Extracted and shipped the first sludge sample from Container 230.

Base

Facilities

- Completed 105KE Reactor Disposition EE/CA, Draft A, which is being transmitted to the regulators for public comment. Also completed the characterization report on the 105KE reactor core.
- 110KW Gas Storage Facility demolition is on hold until after the utility upgrades occur this fall
- The 115KW Gas Recirculation Building additional sampling required by Radiation Control should occur in October
- The 117KW Exhaust Air Filter Building characterization will be performed on overtime in October due to resource availability. Above-grade demolition is planned to occur in November.
- The 118KW Horizontal Control Rod Storage Cave is ready for demolition, which will commence in October once the demolition crew from the 183.2KW Sedimentation Basin is available
- Deactivation has been placed on hold for four buildings which will be removed at one time after the utility upgrades occur this fall. The buildings are the 1717K Maintenance Transportation Shop, 1717AKE Electrical Shed, 1724K Maintenance Shop, and 1724KA Storage Shed.
- 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 fall 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 this fall, after which time demolition should commence.
- Leased facility MO872 Radiation Control Trailer is ready for re-installation in its new location. The building power design is almost complete. A contract will then be issued to hook up electrical power at the new site.
- Deactivation is on hold for four K West mobile offices to be removed as a group (MO236, MO237, MO323 and MO955). Personnel began moving into other offices in late September, after which deactivation will resume. This will accelerate this demolition work from FY2012 into October/November FY2011.
- After the utilities upgrades finish this fall, a group of facilities will be deactivated. 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, 183.5KE/183.6KE Lime Feeder Buildings, 183.7KE Tunnel, 185K Potable Water Treatment Plant, and 190KE/KW Main Pump Houses. Once the en-mass deactivation occurs, the demolitions will be performed on a staggered schedule.

Waste Sites

- Thirteen waste sites that were previously ARRA funded were migrated to base as the extent of contamination exceeded the ARRA-defined work scope. In addition, 100-K-63, which was originally ARRA funded, was migrated to base funding while maintaining ARRA historical reporting.
- Waste site 1607-K3 excavation was completed pending sample results

MAJOR ISSUES

RL-0011 Nuclear Materials Stabilization and Disposition of PFP

Issue Statement – More effective decontamination agents for gloveboxes/hoods with contamination etched into the stainless steel by historical liquid chemical processes are not currently available.

Corrective Action – The Aspigel® Hazards Analysis has been released. The work package for the first application of Aspigel® is undergoing final revisions and will proceed to the Hazards Review Board (HRB) by the third week of October. Additionally, the CHPRC Joint Evaluation Team (JET) review of the Aspigel® decontamination process has been scheduled for October 20, 2010. The JET will determine the level of readiness review required before implementation.

Issue Statement – PFP submitted an “R” occurrence report due to recurring events and overall poor conduct of operations.

Corrective Action –

- Performed a Common Cause Analysis
- Conducted Root Cause Analysis
- Implemented Senior Supervisory Oversight
- Brought in outside expertise to assist the project in developing a plan of action to address the items identified in the “R” occurrence report.
- Developed a PFP Performance Improvement Plan

Issue Statement – Failure to effectively re-deploy D&D field work teams when work delays or stoppages are encountered.

Corrective Action – Working with the D&D management team to communicate and implement a paradigm shift from continuity of D&D field work teams to “qualified” jurisdictional positions. In addition, evaluating the weaknesses associated with work package availability (lack of work packages) to support this change in approach.

RL-0013 Waste and Fuels Management Project

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

Status – Achieved Recovery Plan volume as of September 30, 2010 (805m³ removed, 697 m³ shipped). Recovery schedule supports TPA tentative agreement of 2,000m³ by September 30, 2011. A FY 2011 volume forecast will be established in October.

Issue – Reaching TRU characterization goals of 90 per week with CCP.

Status – Executing recovery plan with CCP for NDE/NDA schedule variance. In addition, TRU Corporate Board is likely to delay increase in number of weekly shipments thus reducing required feed stock.

Issue – EPA Baseline Report for CCP Certification submitted in September allowing full implementation of CCP Certification Program at Hanford.

Status – CCP Certification letter expected in December.

RL-0030 Soil and Groundwater Remediation

Issue: A Quality Assurance Program Assessment was performed on the 100-DX Acceptance Testing process and procedure. As a result of this assessment, a number of programmatic issues have been identified that require corrective actions. These issues include:

- Acceptance Test Procedure acceptance criteria were not always defined as required by the CHPRC project documents and procedures.
- The 100-DX test strategy, as defined in the approved Test Plan, did not include appropriate testing of the ion exchange (IX) process system effectiveness.
- PRC-PRO-EN-286, Testing of Equipment and Systems, provided a general approach to establish and implement a startup test program, but did not provide a structured and appropriately graded approach for execution of a repeatable and rigorous startup test program.
- The 100-DX Acceptance Test Procedure and the Design/Construction Verification did not provide the level of rigor in key areas that is generally expected for a startup test program.
- CHPRC does not have a documented process that addressed, with specificity, the turnover from Construction to Operations.
- The performance and accomplishment of the Construction Acceptance Tests (CATs) was not clearly understood or traceable to identified construction acceptance criteria

Corrective Actions: In accordance with PRC-PRO-QA-052, *Issues Management*, a corrective action plan will be written and approved, and will contain specific corrective actions for each of the programmatic issues stated above.

Status: As required by the CHPRC CRCS, corrective action planning is underway.

Issue: Several performance issues have been identified for samples from CHPRC O-Zone, 100-K Waste Sites, and D&D projects submitted to WSCF for analysis during periods of very high sample loads. The issues include delay in meeting project due dates for analysis reports and custody and traceability for certain beryllium samples.

Corrective Actions: Mitigating actions for missed turn-around times have included discussions with WSCF management toward developing guidelines for the diversion of samples to off-site laboratories when WSCF internal capacity is reached, and daily look-ahead's supplied to WSCF by S&GRP as to the number of samples and their report due dates to be collected each day for the next week. With respect to the beryllium samples, investigation by WSCF continues.

Status: WSCF Corrective action planning is underway.

Issue – The RI/FS drilling schedule at 300-FF-5 is being impacted due to safety related issues with the selected contractor.

Corrective Actions – As a result of a cure notice, the contractor brought a new drilling subcontractor (Boart Longyear) to the site. This subcontractor is experienced with Hanford work. A kickoff meeting was held on August 3, 2010, with the resumption of drilling on August 9. A second rig was scheduled to arrive the week of August 23 to accelerate the schedule. However, it was found that the configuration of the rig required scheduling several weeks of Hoisting and rigging training for the crew, which delayed mobilization of the second rig until the end of September.

Status – Both drilling rigs are on site and qualified for drilling. The new contractor had successfully drilled six of 13 wells before an engine failure just prior to the sampling stop work and is being repaired. Both rigs are anticipated to be in service by November 1, 2010.

Issue – Drilling activities associated with the 100 – HR3 RI/FS were suspended during July as a result of safety concerns associated with the drilling contractors operations.

Corrective Actions – A corrective action plan has been received from the contractor and accepted. The contractor is resuming operations in a phased approach to ensure adequate contractor supervision and management are assigned to the completion of drilling activities. This will impact the RI/FS completion date for the project; however, contractor and CHPRC management continue reviewing plans to safely minimize schedule impacts. The contractor resumed limited activities under their recovery plan and will initiate the RI/FS drilling during the first week of October as planned in the recovery schedule. During the first week of drilling there will be staggered starts for all three rigs. Plans are to prioritize drilling, reduce well construction and delay well development, which will delay the achievement of the final metrics but will obtain the RI/FS samples in accordance with the integrated RI/FS schedule.

Status – Drilling activities are still on hold, meeting to be held October 27, 2010 to discuss restart priorities.

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

Issue – Confirmatory sampling waste sites have failed to meet acceptance criteria.

Corrective Action – Alternative remediation strategies are being developed.

Status – Contract Notice of Change letters have been issued for the following:

Waste Site 200-W-33, Notice of Change letter number CHPRC-1000334, dated May 6, 2010

Waste Site 600-218, Notice of Change letter number CHPRC-1000160, dated March 2, 2010

Issue – During the remediation of the CW-3 ponds, radiological contamination levels were found in the outfall of 600-286-PL and 600-287-PL.

Corrective Action – CHPRC is proceeding with additional characterization activities in the 600-285-PL to determine if radiological contamination is present above levels documented in the remaining sites verification package and full remove, treat, and dispose of the 600-286-PL and 600-287-PL pipelines is expected to start by the end of September.

Status – Planning and prerequisite documents have been developed to support RTD activities in September. Excavation of 600-286-PL is ongoing.

Issue – The RAWP with TPA Change Notice was updated to include waste sites added with the approved MG-1 AM. The initiation of remediation of the MG-1 waste sites 600-222, 200-W-147-PL, 600-OCL, and 600-226 is restrained until the RAWP is approved.

Corrective Action – CHPRC is addressing regulatory comments on the RAWP.

Status – Approval of the RAWP is in process.

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 that the work must be conducted under nuclear Hazard Category three 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 planning for removal of the discharge chute has progressed. Work is trending to start in mid-to-late October. Waste site work is on hold until the chute is removed.

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

Corrective Action – The sites are being added to the contract via Change Proposal (CP).

Status – The CP/BCR process has been initiated for these newly discovered waste sites. An Advanced Work Authorization (AWA) was issued for 100-K-109. Work started in July under the AWA. A BCR for 100-K-97, -98, -99, and -100 was submitted for RL review but was returned and a change proposal was requested. CP-1061 addressing these four waste sites will be submitted to RL in October. Additional CPs will be submitted for the sites not covered in CP-1061.

Issue – Extent and severity of contamination in multiple waste sites is much higher than anticipated.

Corrective Action – Work is continuing on these sites in order to meet ARRA and TPA milestones even though the cost and schedule are impacted.

Status – BCR-PRC-10-047R0 was implemented in September. Excavation activities in excess of the original planned tons and all sampling, closeout, backfill, and re-vegetation activities for 13 sites were moved from ARRA to base. Additionally, CPs are being prepared for the remaining change-of-condition sites not addressed in BCR-PRC-10-047R0. While this issue is anticipated to resurface, this is the last report on this issue.

Issue – Outages (electrical and water) will require significant integration with MSA Electrical Utilities (EU) and 100K Operations to minimize disruptions.

Corrective Action – Project Manager has established weekly meetings with MSA EU to coordinate electrical outages and assure resources are available. Project Manager is coordinating with 100K Operations to determine best available outage times.

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

Issue – Procedure development and operational training for the water treatment plant may require more time than allotted.

Corrective Action – Project Leads have defined procedure needs (modification or new development) for HVAC and Water Treatment Facility.

Status – Resources were identified to support procedural development and a schedule was developed to track progress.

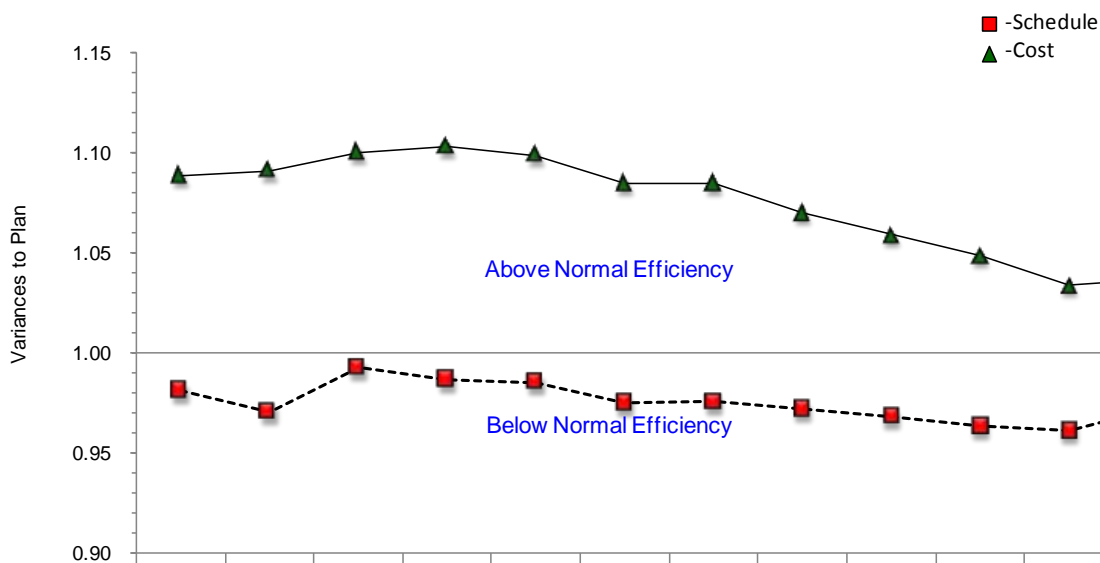
Issue – Change orders in the Power/Water/HVAC Projects have caused an increase in cost and schedule delays throughout the lifecycle of the Utilities Project. These change orders have been incurred due to design changes, additional material/equipment and labor, added subcontractor work scope (i.e., road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

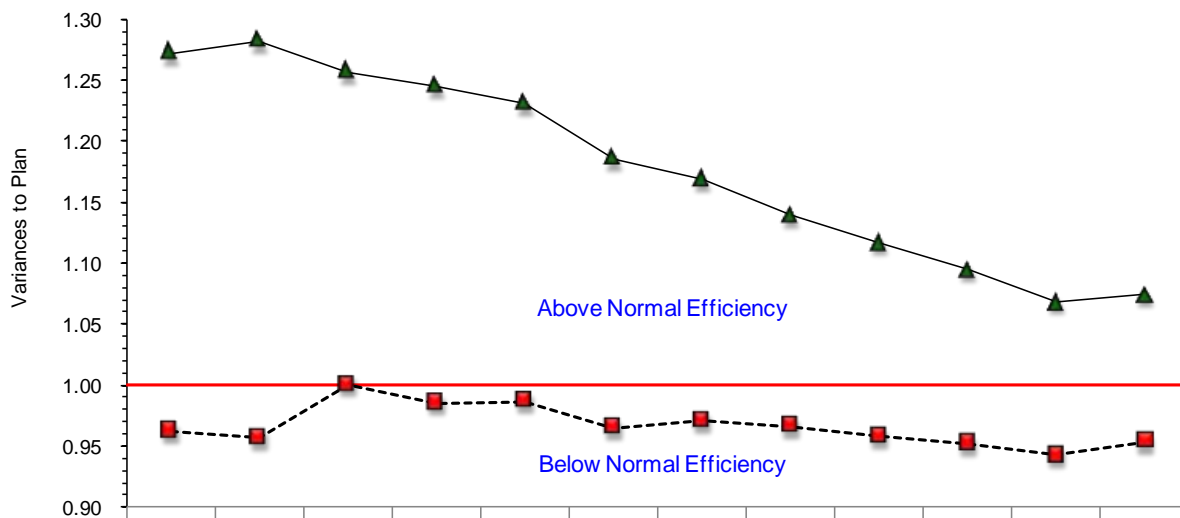
EARNED VALUE MANAGEMENT

Schedule and Cost Performance Indices



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.91	0.87	1.29	0.92	0.97	0.84	0.98	0.92	0.91	0.89	0.92	1.13
MONTHLY CPI	1.12	1.12	1.20	1.14	1.05	0.91	1.08	0.88	0.89	0.91	0.83	1.07
---■--- CTD SPI	0.98	0.97	0.99	0.99	0.99	0.97	0.98	0.97	0.97	0.96	0.96	0.97
—▲— CTD CPI	1.09	1.09	1.10	1.10	1.10	1.08	1.08	1.07	1.06	1.05	1.03	1.04

Schedule and Cost Performance - ARRA

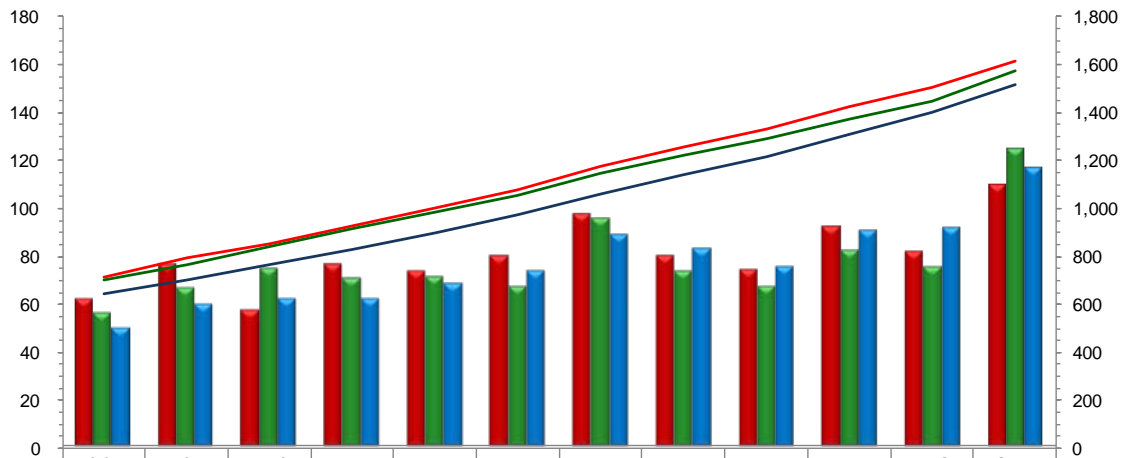


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.92	0.93	1.39	0.90	1.00	0.81	1.01	0.92	0.86	0.89	0.83	1.06
MONTHLY CPI	1.40	1.33	1.12	1.17	1.14	0.89	1.07	0.90	0.90	0.90	0.80	1.13
---■--- CTD SPI	0.96	0.96	1.00	0.99	0.99	0.97	0.97	0.97	0.96	0.95	0.94	0.95
—▲— CTD CPI	1.27	1.28	1.26	1.25	1.23	1.19	1.17	1.14	1.12	1.09	1.07	1.07

Schedule and Cost Performance

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)

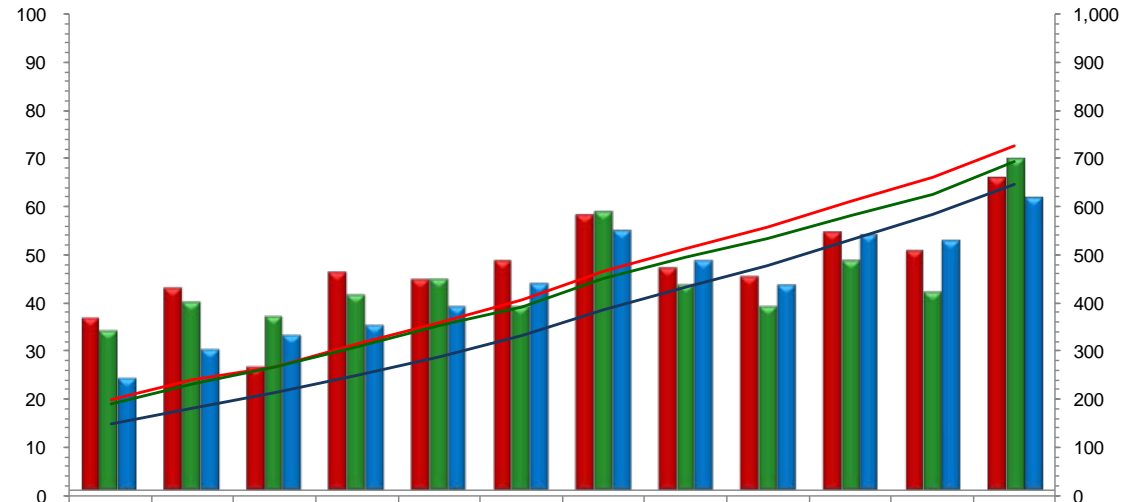


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	62.1	76.4	57.7	76.8	73.7	80.0	97.6	80.2	74.3	92.5	81.9	109.8
MONTHLY BCWP	56.4	66.6	74.7	70.6	71.7	67.4	95.9	73.6	67.4	82.4	75.6	124.6
MONTHLY ACWP	50.3	59.6	62.1	62.0	68.4	73.9	88.5	83.3	75.5	90.5	91.6	116.6
CUMULATIVE BCWS	715.5	791.9	849.7	926.5	1,000.2	1,080.2	1,177.9	1,258.0	1,332.3	1,424.7	1,506.7	1,616.4
CTD BCWP	701.8	768.4	843.1	913.7	985.4	1,052.8	1,148.7	1,222.3	1,289.8	1,372.1	1,447.7	1,572.3
CTD ACWP	644.8	704.4	766.5	828.5	896.9	970.8	1,059.3	1,142.5	1,218.0	1,308.5	1,400.1	1,516.7

Schedule and Cost Performance - ARRA

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	36.7	42.9	26.6	46.0	44.7	48.4	58.0	47.1	45.2	54.3	50.5	65.5
MONTHLY BCWP	33.9	39.9	37.1	41.3	44.5	39.1	58.5	43.6	39.0	48.4	42.0	69.6
MONTHLY ACWP	24.3	30.0	33.1	35.1	39.0	43.9	54.8	48.4	43.4	53.8	52.5	61.6
CUMULATIVE BCWS	198.2	241.1	267.7	313.7	358.4	406.8	464.8	511.9	557.1	611.4	661.9	727.4
CTD BCWP	190.8	230.7	267.8	309.0	353.6	392.6	451.1	494.7	533.6	582.1	624.1	693.7
CTD ACWP	150.0	179.9	213.1	248.2	287.2	331.1	385.9	434.4	477.8	531.6	584.1	645.6

Performance Analysis – September

ARRA Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	14.1	13.0	11.8	(1.2)	1.2
RL-0013 - MLLW Treatment	(1.3)	0.6	1.2	1.9	(0.6)
RL-0013 - TRU Waste	8.5	17.7	12.6	9.2	5.1
RL-0030 - GW Capital Asset	20.6	10.1	9.6	(10.4)	0.6
RL-0030 - GW Operations	4.0	5.4	5.8	1.4	(0.4)
RL-0040 - U Plant/Other D&D	9.3	9.9	9.9	0.6	0.0
RL-0040 - Outer Zone D&D	5.3	6.6	3.4	1.4	3.2
RL-0041 - 100K Area Remediation	5.0	6.1	7.2	1.1	(1.1)
Subtotal	65.5	69.6	61.6	4.1	8.0
Fee			2.6		
Total			64.1		

ARRA

The Current Month favorable Schedule Variance (+\$4.1M/+6.2%) reflects:

- The RL-0013 positive variance (+\$11.1M) reflects the following subproject performance:
 - RL-0013 TRU Waste (+\$9.2M) – TRU Retrieval recovered prior period retrieval volumes, coupled with rephasing of TFPS, TFRCS and Site Prep Phase I to align with vendor availability and revised execution strategy, partially offset by T-Plant Repack operations delay due to recovery actions for drum lid issue.
 - RL-0013 MLLW Treatment (+\$1.9M) – Mixed Low Level waste realigned activities to correspond with Retrieval Project quantities and new feed stream from Large/RH Repack, coupled with arrival of ERDF forklift scheduled for prior time period.
- The RL-0040 positive variance (+\$2.0M) reflects the following subproject performance:
 - ARRA RL-0040.RI.2 Outer Zone D&D (+\$1.4M) positive schedule variance is a result of implementing a modified approach to removing the soils in the BC Control Area. To expedite clearing the bulk excavation portions of the site, a process of short-term onsite stockpiling was initiated; this stockpile will enable a full utilization of haul capability when remediation moves on to removal of more widely spaced spot contamination.
 - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$0.6M) is within reporting thresholds.
- The RL-0041 positive variance (+\$1.1M) is due to the following:
 - Waste Sites (+\$2.0M) – A significant schedule variance has been reported during this period continuing the positive trend. BCR-PRC-10-047R0, implemented in September, reflects completion of the ARRA portion of performance for 13 waste sites with their additional scope moved to base. Some negative contributors include: encumbered access due to D4 priorities and

removal of the 105KE discharge chute; 116-KE-2 which must be moved to Group 2 to align with the TPA milestones and fit with utility relocation work; and 116-KE-3 where the base volume has been excavated but schedule is slipping as the additional amount of contamination is determined and where a drywell was encountered in the base of the excavation at 45 feet below ground. This well must be decommissioned before work can proceed.

- 100K Area Project (Facilities and Others) (-\$0.9M) – The negative variance in K West Deactivation (-\$0.7M) due to the small and medium debris disposition campaign being delayed by the MCO proficiency test and vacuuming; Project Management (-\$0.7M) where the processor for the PC8001C-8 was not received by month end and the Emergency Decontamination trailer purchase has been placed on hold; and 105KE Reactor (-\$0.2M) due to delayed start of the final design due to rescheduling the 60% design review from June to November at the request of RL. This is offset by a positive variance in Utilities (+\$0.6M) with execution of field work on the electrical and water projects to recover schedule slippage and (+\$0.1M) from 183KW Sedimentation Basin Complex recovering some schedule from prior months.
- The RL-0030 negative variance (-\$9.0M) reflects the following subproject performance:
 - The primary contributors to the negative variance in ARRA RL-0030.R1.1 GW Capital Asset (-\$10.4M) are as follows:
 - 200-ZP-1 Operable Unit (-\$9.8M) – Long-lead procurement activities, construction of treatment pad, installation of HDPE, performing work in prior months that were scheduled to be done in September all contributed to the current month variance. Delays in design and construction drawings have caused the variances; corrective measures are being used to minimize impact on project completion.
 - 100 HR-3 Operable Unit (-\$0.8M) – Installation of equipment inside the DX process and M2 transfer buildings ahead of schedule; the work scope planned in September was completed in prior months resulting in the current month negative variance.
 - The primary contributor to the positive variance in ARRA RL-0030.R1.2 GW Operations (+\$1.4M) is in Drilling (+\$1.6M) due to the implementation of BCR-PRC-10-054R0 - Changes to execution approach for S&GW selected activities (KR-4 and HR-3) has resulted in the current month point adjustment and positive schedule variance.
- The RL-0011 negative variance (-\$1.2M) is due to the late award of the temporary power substations is the primary cause of this month's variance. The continued delays experienced by D&D, due to additional time required for chemical decontamination and issues with the use of breathing air, was mitigated by completing removal of eight gloveboxes.
Recovery – The delay in receipt of the substations does not impact completion of temporary power by the September 2011 baseline date. However, the cumulative D&D negative schedule variance is expected to continue. Utilization of an additional decon agent (Aspigel®), additional overtime, leaving gloveboxes in place for removal during demolition, and application of the revised SCO process is expected to contribute to the schedule recovery. Shift work is also being evaluated.

The Current Month favorable Cost Variance (+\$8.0M/+11.6%) reflects:

- The RL-0013 positive variance (+\$4.6M) reflects the following subproject performance:
 - RL-0013 TRU Waste (+\$5.1M) – TRU Retrieval's significant recovery of schedule without a commensurate increase in resources, adjustment in TRU Characterization and Shipping performance (due to understatement in previous month) without corresponding cost increase, and lower than planned costs in RH/Large packaging for waste size reduction and repackaging services.

- RL-0013 MLLW Treatment (-\$0.6M) – Mixed Low Level Waste Treatment incurred higher subcontractor costs, coupled with overstatement of prior months' performance for Large A Type container procurement.
- The RL-0040 positive variance (+\$3.2M) reflects the following subproject performance:
 - ARRA RL-0040.R1.2 Outer Zone D&D (+3.2M) positive cost variance is a result of an adjustment to waste disposal costs at ERDF reflecting realized efficiencies.
 - ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.0M) is within reporting thresholds.
- The RL-0011 positive variance (+\$1.2M) is primarily due to the direct distributable pool liquidation credits. Recovery – The cost variance is expected to continue to trend downward while D&D recovery plans are implemented. Utilization of overtime will be managed to control the trend of the CPI.
- The RL-0030 positive variance (+\$0.2M) reflects the following subproject performance:
 - The primary contributors to the negative variance in ARRA RL-0030.R1.1 GW Capital Asset (+\$0.6M) that exceed reporting thresholds are as follows:
 - 200-ZP-1 Operable Unit (+\$1.3M) – Accruals were understated and will be corrected in October. No significant impact is anticipated.
 - 100-HR-3 Operable Unit (-\$0.6M) – Labor cost for DX ATP and installation of the pH adjustment system were greater than planned. Overall cost variance remains positive.
 - The primary contributor to the negative variance in ARRA RL-0030-R.1.2 GW Operations (-\$0.4M) is in the 200-ZP-1 Operable Unit (-\$0.3M) where year-end contractor labor time record corrections resulted in the current month overrun. No negative impact is anticipated to total contract cost at completion.
- The RL-0041 negative variance (-\$1.1M) is due to the following:
 - 100K Area Project (Facilities and Others) (-\$7.0M) – The negative cost variance in Utilities (-\$5.2M) has two components: the electrical project mobile substation subcontract and the water project subcontract, both of which are incurring extra costs to maintain the schedule; K West deactivation (-\$1.9M) due to no work performed on the small and medium debris disposition campaign (see SV discussion) although vacuuming activities were performed; Facilities (-\$1.1M) on the 183.3KW Filter Basin where additional ERDF costs have been incurred as the footers were significantly thicker than the drawings showed, and increased 1706KE/KER costs due to removal of equipment/piping in the substructure that was not planned; 105KE Reactor (-\$0.8M) due to the addition of the discharge chute demolition. These are offset by positive variances in G&A (+\$1.9M) due to the year-end passback; and Project Management/MSA Assessments (+\$0.1M) due to a multitude of small corrections.
 - Waste Sites (+\$5.9M) – In conjunction with the BCR-PRC-10-047R0, implemented in September, cost transfers were implemented to move costs related to waste volumes in excess of those originally planned from ARRA to Base for the same 13 (including 100-K-63) waste sites. This, together with a much larger-than-anticipated ERDF passback, resulted in the positive variance for the current month.

Base Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	5.9	5.1	5.4	(0.8)	(0.4)
RL-0012 - SNF Stabilization & Disp	6.6	7.6	8.8	1.0	(1.2)
RL-0013 - Solid Waste Stab & Disp	9.8	10.0	11.7	0.2	(1.7)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	14.8	19.2	17.8	4.5	1.4
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	2.1	2.0	1.9	(0.2)	0.1
RL-0041 - Nuc Fac D&D - RC Closure Proj	4.8	10.8	9.3	6.0	1.5
RL-0042 - Nuc Fac D&D - FFTF Proj	0.2	0.2	0.0	0.0	0.1
Subtotal	44.2	55.0	55.0	10.7	(0.1)
Fee			1.4		
Total			56.5		

Base

The Current Month favorable Schedule Variance (+\$10.7M/+24.2%) reflects:

- The RL-0041 positive variance (+\$6.0M) is due to the following:
 - Waste Sites (+\$5.6M) due to the implementation of BCR-PRC-10-047R0. Due to the extent of contamination, BCWS was added for additional extent of contamination and performance taken for thirteen waste sites where work had been performed, and all the additional scope was moved from ARRA to Base for these waste sites. The appropriate cumulative performance was reported in September resulting in a significant positive variance.
 - 100K Area Project (Facilities and Others) (+\$0.4M) The positive variance in Facilities is (\$+0.7M) where a large group of buildings have begun the characterization sampling; offset by negative variances in 105KE Reactor (-\$0.3M) due to delayed start of the final design due to rescheduling the 60% design review from June to November.
- The primary contributors to the RL-0030 positive variance (+\$4.4M) that exceed the reporting thresholds are as follows:
 - 100 HR-3 Operable Unit (+\$3.9M) variance is due to the following:
 - 1) Contract to procure and install the HX treatment building started early. Planned to start in October (Monarch).
 - 2) Field work on HDPE pipe installation was ahead of schedule for the month resulting from extended work hours in the field with the end of fire danger season.
 - 3) Implementation of BCR-PRC-10-054R0 and resulting point adjustment for changes to in situ bioremediation and RI/FS activities due to the new TPA milestone for bioremediation and risk realized by drilling.
 - 200-UP-1 Operable Unit (+\$0.9M) S-SX construction activities planned in FY11 were performed early.

- 300-FF-5 Operable Unit (+\$0.3M) Recovery of some field investigation/data collection work during September and point adjustment as the result of implementing BCR-PRC-10-054R0 (re-plan infiltration test follow-on work). No impact expected to overall project completion.
- 100 KR-4 Operable Unit (-\$0.4M) – Delays in the KW Bioremediation TTP construction due to additional time needed for design. Management is reviewing to mitigate and prevent additional delays.
- 200-ZP-1 Operable Unit (-\$0.3M) – The eight ton well pump setting truck was not delivered as planned; it is currently projected to be delivered in March 2011. Also delays in sampling analysis related to the well drilling issues. No impact is expected to overall project completion.
- Regulatory Decision/Closure (-\$0.3M) Work scope that is in the current baseline is changing as part of the Tentative Agreement and new Central Plateau Closure Strategy. The new strategy will be implemented in FY2011.
- The RL-0012 positive variance (+\$1.0M) is primarily due to the STP variances that include: 1) implementation of BCR-PRC-010-053R0 which included the KOP project plan update, per DOE O 413.3A (updated estimate for Preliminary Design Report), and included re-planning the procurement of MCOs and the IWTS upgrades (+\$1.7M), offset by, 2) schedule delay in the sampling of Engineered Container (EC)-230 (Settler Tank Sludge), while the 100K Basin operations personnel completed the MCO proficiency run (-\$0.3M), and 3) schedule delay in the installation of the sampling system on EC-210 while 100K Operations personnel completed the vacuuming campaign (-\$0.4M). The EC 210 schedule variance will correct when the vacuuming campaign completes (scheduled for October 8). No recovery actions are required for the KOP procurements as the baseline reflects the current procurement actions in place.
- The RL-0013 positive variance (+\$0.2M) – Next Gen CH TRU Retrieval performance was overstated due to a system issue (will be corrected next reporting period). WESF Ventilation upgrades recovered schedule on pre-conceptual design activities.
- The RL-0011 negative variance (-\$0.8M) is due to suspension of breathing air work prevented completion of canyon crane repairs and canyon floor cleaning. Recovery – Breathing air work resumed September 21, resulting in re-start of canyon crane repairs. Canyon crane repairs are expected to complete mid-October, allowing resumption of floor cleaning and manual size reduction of the PRF Pencil Tanks.
- The RL-0040 and RL-0042 variances (-\$0.1M) are within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$0.1M/-0.2%) is within reporting thresholds and reflects:

- The RL-0013 negative variance (-\$1.7M) – Assessments continue above plan, Long-Term Box Storage (LTBS) incurred overtime and subcontractor costs due to weather related impacts, partially offset by efficiencies in Liquid Effluent Facilities (LEF).
- The RL-0012 negative variance (-\$1.2M) is due to the following:
 - Project Services & Support (-\$0.9M) is due to an increase in year-end allocations. No recovery actions required.
 - The STP negative variance (-\$0.5M) is due to increase costs for the MASF electrical upgrades. No recovery actions required, as this is a one-time expenditure.
 - The 100K Area positive variance (+\$0.2M) is due to year end passbacks. No recovery actions required.
- The RL-0011 negative variance (-\$0.4M) is due to the inability to effectively re-deploy field work teams when work delays/stops are experienced is causing this variance.

- The RL-0041 positive variance (+\$1.5M) is due the following:
 - Waste Sites (+\$3.1M) variance is related to the BCR implemented in September, the cost transfers associated with it and a larger-than-expected ERDF passback.
 - 100K Area Project (Facilities and Others) (-\$1.6M) – The negative variance for 105KE Core Removal (-\$0.6M) is primarily attributed to delay in finalization of core characterization; G&A variance (-\$1.1M) due to the September passback; and Project management (-\$0.1M) numerous small corrections. These are offset by Facilities (+\$0.2M) due to numerous small charges.
- The primary contributors to the RL-0030 positive variance (+\$1.4M) that exceed the reporting thresholds are as follows:
 - GW Monitoring and Performance Assessments (+\$1.4M) – WSCF passback and cost transfer processed. Cost corrections distributed cost to appropriate operable units. Billing/invoicing process now distributes cost directly to the operable units.
 - PBS RL-30 UBS, G&A, and DD (+\$1.0M) – The CTD positive cost variance is discussed in Appendix C.
 - 100 HR-3 Operable Unit (+\$0.6M) – Installation of HDPE piping for HX is costing less than planned and an under accrual for HX building erection. The under accrual will be corrected in October with no impact to total contract cost.
 - Integration and Assessments (+\$0.3M) – A vendor accrual adjustment was made to close out the year for the modeling and risk assessment efforts for which the Technical Integration account provides oversight. Accruals that have been accumulating in this account have now been corrected to the various accounts as invoiced.
 - 100-NR-2 Operable Unit (+\$0.3M) – Chemical treatment and maintenance scope for less than planned. Efficiencies are not expected to continue in all cases.
 - Ramp-up and Transition (-\$2.7M) – Projected cost/accrual for the employee rewards and recognition program exceeded plan.
- The RL-0040 and RL-0042 variances (+\$0.2M) are within reporting thresholds.

Performance Analysis – Contract to Date

ARRA Performance by PBS (\$M)

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost			
RL-0011 - PFP D&D	152.4	141.2	136.4	(11.2)	4.8	279.2	269.9	9.3
RL-0013 - MLLW Treatment	32.0	31.9	30.0	(0.1)	2.0	47.9	46.3	1.6
RL-0013 - TRU Waste	118.2	114.7	115.2	(3.5)	(0.6)	250.5	246.9	3.6
RL-0030 - GW Capital Asset	72.9	66.9	64.6	(5.9)	2.3	171.2	170.8	0.3
RL-0030 - GW Operations	57.8	51.0	42.2	(6.8)	8.9	84.5	80.9	3.6
RL-0040 - U Plant/Other D&D	124.9	120.8	107.7	(4.1)	13.1	197.6	191.2	6.4
RL-0040 - Outer Zone D&D	44.6	44.0	35.6	(0.6)	8.4	86.7	87.7	(0.9)
RL-0041 - 100K Area Remediation	124.7	123.1	114.0	(1.6)	9.1	170.2	156.0	14.2
Subtotal	727.4	693.7	645.6	(33.8)	48.0	1,287.6	1,249.7	38.0
Management Reserve						26.9		
Fee			36.7			72.1		
Total			682.4			1,386.7		

ARRA

The CTD unfavorable Schedule Variance (-\$33.8M/-4.6%) reflects:

- The RL-0030 CTD negative variance (-\$12.7M) reflects the following subproject performance:
 - The primary contributor to the negative variance in ARRA RL-0030.R1.2 GW Operations (-\$6.8M) is due to the Ramp-up & Transition (-\$6.3M):
 - 1) The construction contractor's performance is less than planned due to their inability to obtain required levels of staffing
 - 2) Limited engineering resources due to competing priorities
 - 3) The re-work that was required on the foundation due to incorrect placement. The contract is currently forecast to complete four months behind schedule.
 - A recovery plan is being worked with the project completion date expected to be in January 2011
 - The primary contributor to the negative variance in ARRA RL-0030.R1.1 GW Capital Asset (-\$5.9M)
 - 200-ZP-1 Operable Unit (-\$6.7M) – Long-lead procurements are behind schedule due to design release delays. CHPRC is working with contractors to increase manpower/OT to recover schedule.
- The RL-0011 CTD negative variance (-\$11.2M) is primarily caused by:
 - Safety stand-down and stop works
 - Breathing air issues
 - Ultra conservative application of the SCO process
 - Unplanned process vacuum mockup work to support application of new glovebag technique Recovery – This negative schedule variance is expected to continue. Utilization of an additional decontamination agent (Aspigel[®]), additional overtime, leaving gloveboxes in place for removal during demolition, and application of the revised SCO process is expected to contribute to the

schedule recovery. It is expected that the negative schedule variance will be recovered by March, 2012.

- The RL-0040 CTD negative variance (-\$4.7M) reflects the following subproject performance:
 - ARRA RL-0040.R1.1 U Plant/Other D&D (-\$4.1M) – The negative variance is due to the late award of the grout contract for U Canyon (-\$2.8M), delays with the 200E Administration Buildings (-\$1.8M) due to bio-hazard and radiological control issues, delay in receiving capital equipment (-\$0.3M), and U Ancillary demolition (-\$0.4M) schedule delays due to asbestos abatement/respirator issues. This is offset by accelerating 209E demolition preparation, mobilization, and asbestos abatement (+\$1.1M). Minor accounts within threshold (-\$0.1M).
 - ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.6M) – The CTD negative variance is due to several ALE towers having not been released for work (-\$0.6M) coupled with the deferral of work on 600-220, 600-226, and 200-W-147-PL (-\$0.1M) pending approval of regulatory documentation, partially offset by the Railcars Disposition starting early (+0.1M).
- The RL-0013 CTD negative variance (-\$3.6M) reflects the following subproject performance:
 - RL-0013 TRU Waste (-\$3.5M) – TRU Retrieval recovered prior period retrieval volumes, coupled with rephasing of TFPS, and TFRCS Site Prep to align with vendor availability and revised execution strategy, partially offset by T-Plant Repack operations delay due to drum lid issue recovery actions.
 - RL-0013 MLLW Treatment (-\$0.1M) – Delay in shipment to offsite treatment facility utilizing Large Type A container, partially offset by Mixed Low Level Waste 435.1 compliance activities (acceleration of FY11 scope).
- The RL-0041 variance (-\$1.6M) is within reporting thresholds.

The CTD favorable Cost Variance (+\$48.0M/+6.9%) reflects:

- The RL-0040 CTD positive variance (+\$21.5M) reflects the following subproject performance:
 - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$13.1M) – The 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) (+\$3.0M), G&A and direct distributable allocations (+\$8.5M), less for Program Management than planned (+\$0.8M), efficiencies at U Canyon (D4) (+\$3.1M), less resources than planned for C-3 Sampling (+\$0.7M) and 200E Administration (+\$2.1M), lower than planned costs for capital equipment (D4) (+\$2.6M), 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) (-\$6.3M), coupled with increased insulator staff and overtime to recover schedule, 209E Project (+\$0.3M) and higher MSA (-\$1.9M) costs for Fleet/Training, etc. In addition, minor accounts outside the threshold (+\$0.2M).
 - ARRA RL-0040.R1.2 Outer Zone D&D (+\$8.4M) – The favorable cost variance is due to efficiencies in ALE Facilities D&D (+\$4.2M) and Outer Area waste sites (+\$5.4M). The waste site favorable cost-to-date variance is due to an O Zone RTD Waste Sites adjustment (passback) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. In addition, a negative cost variance is associated with the disposition of railcars (-\$0.1M) due to unplanned costs for non-destructive analysis of the cars and increase costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated.

- The RL-0030 CTD positive variance (+\$11.2M) reflects the following subproject performance:
 - The primary contributors to the positive variance in ARRA RL-0030.R1.2 GW Operations (+\$8.9M) are as follows:
 - Drilling (+\$3.7M) – 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.
 - Ramp-up and Transition (+\$1.8M) – Site work, utilities, and mobile office procurements activities were contracted for less than estimated in the baseline. It is anticipated that cost for the internal fit-out of the four shop/warehouse buildings will be greater than budgeted leaving the project with a small positive cost variance at completion.
 - Regulatory Decision & 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); borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support); and document preparation (200-BC-1 data validation and Data Quality Assessment reports).
 - PBS RL-30 UBS, G&A, and DD (+\$1.7M) – The CTD positive cost variance is discussed in Appendix C.
 - ARRA RL-0030.R1.1 GW Capital Asset (+\$2.3M) variance is within reporting thresholds.
- The RL-0041 CTD positive variance (+\$9.1M) is due to the following:
 - Waste Sites (+\$10.1M) – Last month's positive cost variance, caused by early completion of 100-K-55 Part 1 and CSNA sites, was increased by implementation of BCR-PRC-10-047R0.
 - Project Support & Services (+\$4.9M) – Achieved efficient use of G&A assigned resources.
 - 100K Area Project (Facilities and Others) (-\$5.9M) – The positive variance is from K West deactivation (+\$1.9M) for the debris removal campaign removing smaller debris units first and efficiencies from utilizing experienced staff. Facilities (+\$1.5M) is due to 183.2KW ERDF disposal cost avoidance offset by 1706KE/KER asbestos material overruns. The 105KE Reactor Disposition (+\$0.1M) is attributed to decontamination work utilizing less engineering and administrative staff than planned. These are offset by a negative cost variance in Project Management (-\$3.0M) where D&D facility remediation site housecleaning activities have been charged to the General Site Cleanup account; and the 100K Area utility projects (-\$6.4M) 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.
- The RL-0011 CTD positive variance (+\$4.8M) is due to efficiencies recognized on cross-cutting support to the D&D work teams (primarily in solid waste management, project management, NDA, and consumables and subcontracts), early demolition of ancillary buildings, and the removal of asbestos and non-process equipment from 234-5Z are the cause of this positive variance. This positive cost variance will 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 CPI does not fall below the threshold of 1.00.
- The RL-0013 CTD positive variance (+\$1.4M) reflects the following subproject performance:
 - RL-0013 MLLW Treatment (+\$2.0M) – Mixed Low Level Waste costs below plan due to efficiencies created by treating waste at Energy Solutions (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 Mixed Waste Disposal Trenches and Large Type A shipments.

- RL-0013 TRU Waste (-\$0.6M) – Increased TRU Retrieval operational costs associated with upset conditions and TRU Retrieval support and management costs in support of 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, and efficiencies at T-Plant and TRU Repackaging.

Base 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 - Nuclear Mat Stab & Disp PFP	127.6	123.7	121.7	(3.9)	2.0	340.8	344.2	(3.5)	
RL-0012 - SNF Stabilization & Disp	170.9	167.7	173.6	(3.2)	(5.9)	576.1	581.1	(5.0)	
RL-0013 - Solid Waste Stab & Disp	237.6	235.6	239.5	(2.0)	(3.9)	1,575.0	1,565.1	9.9	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	264.0	257.1	252.8	(6.9)	4.3	1,239.6	1,233.6	6.1	
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	49.5	49.3	43.1	(0.2)	6.2	979.7	966.2	13.5	
RL-0041 - Nuc Fac D&D - RC Closure Proj	26.3	35.1	31.0	8.8	4.1	382.1	383.8	(1.6)	
RL-0042 - Nuc Fac D&D - FFTF Proj	10.1	10.1	9.4	0.0	0.7	25.0	23.8	1.2	
Subtotal	886.0	878.6	871.0	(7.4)	7.5	5,118.3	5,097.8	20.6	
Management Reserve						173.8			
Fee			40.4			231.9			
Total			911.4			5,524.1			

Base

The CTD unfavorable Schedule Variance (-\$7.4M/-0.8%) is within reporting thresholds and reflects:

- Various positive and negative variances contributed to the RL-0030 CTD negative variance (-\$6.9M). The following variances exceeded the reporting thresholds:
 - Regulatory Decision/Closure (-\$2.7M) – Work scope that is in the current baseline that is changing as part of the Tentative Agreement and new Central Plateau Closure Strategy. The new strategy will be implemented in FY2011.
 - 200-UP-1 Operable Unit (+\$1.0M) – S-SX construction activities planned in FY11 were performed early.
- The RL-0011 CTD negative variance (-\$3.9M) is due to the Safety stand-down and stop works, delayed equipment procurement for manually size reducing pencil tanks, canyon crane operability, and breathing air suspensions are contributing to this variance. Recovery – A BCR is being prepared to incorporate the manual size reduction approach into the PRF Plan and remove the scope associated with the procurement of the BROKK. This BCR will be implemented by the end of October. A decision has been made to leave gallery gloveboxes in place for removal during demolition which will reduce cost and schedule. This negative schedule variance will be recovered by March, 2012.
- The RL-0012, RL-0040 and RL-0042 CTD negative variance (-\$3.4M) are within reporting thresholds.

- The RL-0013 CTD negative variance (-\$2.0M) – LTBS delayed by polyurea Readiness Assessment review and alternative solutions evaluation, Canister Storage Building (CSB) and Liquid Effluent Facilities (LEF) engineering activities delayed due to resource availability (assigned to higher priority activities), and WESF Roof Upgrades delay for enhanced Plateau Remediation Contract (PRC) Safety practices and work management requirements.
- The RL-0041 CTD positive variance (+\$8.8M) is due to the following:
 - Waste Sites (+\$9.7M) – In addition to factors reported last month (RL's acceptance of CSNA documentation, completion of 100-K-56 Part 2 with much less effort than anticipated, and early completion of CSNA scope), the schedule variance was further increased by implementation of BCR-PRC-10-047R0 as discussed above.
 - 100K Area Project (Facilities and Others) (-\$0.9M) – The negative variance is from Facilities (-\$0.3M) where a large group of buildings have begun the characterization/deactivation planning process, but no field work can be performed until after the utilities upgrade occurs this fall, so no performance could be taken; and the 105KE Reactor (-\$0.6M) due to delayed start of the final design due to rescheduling the 60% design review from June to November.

The CTD favorable Cost Variance (+\$7.5M/+0.9%) is within reporting thresholds and reflects:

- The RL-0040 positive variance (+\$6.2M) is due to the following:
 - 100K Area Project (Facilities and Others) variance is due to: 1) efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials, 2) surveillance and maintenance costs (D4) (+\$1.0M) less than expected, 3) completed the sampling of Cell 30 with less resources than planned (+\$0.9M), 4) Program Management utilizing less resources (+\$1.1M), 5) capital equipment (+\$0.3M), 6) Usage Base Services (+\$0.1M) and 7) an underrun in G&A and direct distributable allocations (+\$0.6M). In addition, minor accounts outside the threshold (+\$0.9M).
 - Waste Sites (+\$0.7M) is due to less extensive regulatory support labor required for the U Zone agreement-in-principle and an inadvertent overstatement of performance related to the 600 Central Landfill barrier in March 2010 and the completion of a confirmatory sampling waste site located within BC Controlled Area.
- Primary contributors to the RL-0030 CTD positive variance (+\$4.3M) that exceed reporting thresholds are as follows:
 - 100-NR-2 OU (+\$2.0M) Performing chemical treatment and maintenance scope, jet grouting pilot test work and RI/FS Work Plan and Interim Proposed Plan Reporting more efficiently than planned.
 - 200-ZP-1 Operable Unit (+\$2.4M) variance reflects the following:
 - Interim Operations reflects significant progress and cost underruns 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.
 - Usage Based Services (-\$1.7M) Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services cost that occurred in FY2009. Overruns will continue to be funds managed within the S&GRP project.

- Ramp-up & Transition (-\$2.7M) Projected cost/accrual for the employee rewards and recognition program exceeded plan.
- The RL-0041 positive variance (+\$4.1M) is due to the following:
 - Waste Sites (+\$6.1M) – The positive cost variance arises from early completion of 100-K-56 Part 2 and CSNA scope and implementation of BCR-PRC-10-047R0.
 - 100K Area Project (Facilities and Others) (-\$2.0M) – The negative variance is from Facilities (-\$0.5M) due to 1706KE/KEL/KER overruns last year on the above-grade demolition; Project Management (-\$0.7M) due to the higher-than-planned number of vehicles being utilized by the project; and G&A (-\$1.4M) due to year-end variance distributions. This is partially offset by the positive variance in 105KE Reactor (+\$0.6M) due to over-estimation of project enabling documentation costs.
- The RL-0011 positive variance (+\$2.0M) is the result of early completion of Special Nuclear Material De-Inventory, D&D Materials Subcontracts, Waste Container Procurements, D&D staff ramp-up, recognized efficiencies in Min-Safe Operations and Demolition, and PRF east gallery glovebox cleanout. Recovery – This positive cost variance is expected to decrease with increased utilization of overtime to recover schedule associated with the PRF canyon floor cleaning and Canning and Charging glovebox removals, but will be monitored closely to ensure the trend does not drive CPI below the threshold of 1.0.
- The RL-0012 and RL-0042 variances (-\$5.2M) are within reporting thresholds.
- The RL-0013 negative variance (-\$3.9M) is due to increased assessments above plan, TRU Retrieval additional resources to deal with the deteriorated containers, Waste Receiving and Processing (WRAP) Facility incurring increased levels of corrective and preventive maintenance activities as a result of repack operations, partially offset by efficiencies in LEF, MLLW (due to treating waste at ES-Clive rather than planned treatment at PFNW), and TRU Disposition.

FUNDING ANALYSIS

FY2010 Funds vs. Spending (\$M)

PBS	Project	FY 2010		
		Funding	Actual Spending	Spend Variance
RL-0011	Nuclear Materials Stabilization and Disposition	106.7	101.9	4.8
RL-0013	Waste and Fuels Management Project	129.0	125.6	3.4
RL-0030	Soil, Groundwater and Vadose Zone Remediation	108.4	103.1	5.3
RL-0040	Nuclear Facility D&D, Remainder of Hanford	117.7	107.3	10.4
RL-0041	Nuclear Facility D&D, River Corridor	99.4	102.3	(2.9)
Total ARRA:		561.2	540.2	21.0
RL-0011	Nuclear Materials Stabilization and Disposition	57.2	51.1	6.1
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	86.4	77.6	8.8
RL-0013	Waste and Fuels Management Project	109.8	102.4	7.4
RL-0030	Soil, Groundwater and Vadose Zone Remediation	176.4	146.0	30.3
RL-0040	Nuclear Facility D&D, Remainder of Hanford	25.4	16.8	8.6
RL-0041	Nuclear Facility D&D, River Corridor	35.6	24.4	11.2
RL-0042	Fast Flux Test Facility Closure	1.6	1.1	0.4
Total Base:		492.4	419.4	73.1

Funds/Variance Analysis:

Funding reflects FY2009 carryover funds and FY2010 new budget authority. The ARRA negative variance in RL-0041 is largely due to increased cost for the 100K Area Utilities Reroute associated with the mobile electrical substation, necessary road enhancements, unforeseen obstacles found during excavation, added work scope for potable water facility tie in, removal of large rock/debris piles and HPT support for the remainder of the project; and from removing 183.2KW Sedimentation Basin sumps which were planned to be left in place.

BASELINE CHANGE REQUESTS

In September 2010, CHPRC approved and implemented eleven (11) baseline change requests, of which four (4) are administrative in nature and did not change budget, schedule or scope.

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

Change Request #	Title	Summary of Change
Implemented into the Earned Value Management System for September 2010		
BCR-PRC-10-053R0	PRC Baseline, Revision 2 Update	This change request incorporates the RL comments on the PRC Baseline, Revision 2, as provided to CHPRC in RL letter J. C. Connerly, RL, to, J. G. Lehew, CHPRC, "U. S. Department of Energy Richland Operations (RL) Comments on Plateau Remediation Contract (PRC) Baseline, Revision 2", 10-PIC-0057, dated August 6, 2010 (Attachment 1). This baseline update also reflects the sixty-eight change requests incorporated into the CHPRC earned value management system following implementation of the PRC Baseline, Revision 2, in January 2010. RL direction to submit the PRC Baseline, Revision 2 Update for approval is provided in Attachment 1. As discussed in a meeting between RL and CHPRC management on August 24, 2010, CHPRC is implementing the PRC Baseline, Revision 2 Update into the Earned Value Management System for the September 2010 month-end reporting. Implementation is deemed consistent with RL letter J. C. Connerly, RL, to J. G. Lehew III, CHPRC, Contract No. DE-AC06-08RL14788, Deliverable C.3.2.3.3-1, Plateau Remediation Contract (PRC) Baseline," 10-PIC-0040, 0902501, dated May 3, 2010, (also included in Attachment 1) to ensure that the baseline is maintained under configuration control so that changes are reflected in the earned value system as appropriate. No additional funding is required as a result of this change request and there is no change to the management reserve distribution.
BCR-PRC-10-054R0	Changes to Execution Approach for S&GW Selected Activities	There is no change to contract scope; however, the performance measurement baseline (PMB) is adjusted as described in this change request. Specifically, a number of execution issues have been identified. To address the emerging issues, a meeting was held on Tuesday August 10, 2010 with RL30 Program office personnel where these execution items were provided and discussed and initial agreement received to proceed with an execution change request while RL staff reviewed the list. No additional changes are provided by RL. Authorization to implement this change request is provided in Attachment 2 but RL approval is requested per CHPRC baseline change control procedure requirement (i.e. budgeted cost of work schedule increase is over \$5M). TPA Milestones are added per TPA Change Package M-24-10-01," Groundwater Protection, Monitoring and Remediation Well Installation Priority List Update Thru CY 2013, and M-024-64 Creation". Also, three TPA milestones are added per TPA Change Package M-15-10-03, "Extension to Hanford Federal Facility Agreement Milestones M-015-44C, M-015-51, and M-015-83 in order to complete the public involvement process". There is no transfer of scope between work breakdown structure (WBS) elements of the Attachment J-11, Revision 1 Table, no additional funding is required as a result of this change request and no use of management reserve.
BCR-PRC-10-047R0	RL-41 ARRA to Base Shift for 100-K-63 & Waste Sites with Extent of Contamination	This change request reflects three primary directed changes. The first RL directed change is to modify the waste volume generated from thirteen (13) waste sites funded by the American Recovery & Reinvestment Act (ARRA), some of which are now complete. The thirteen waste sites are: 116-KE-3, 120-KW-1, 100-K-34, 100-K-18, 120-KW-2, 100-K-71, 100-K-68, 100-K-69, 100-K-70, 100-K-56, 100-K-47, 100-K-3 and 100-K-

Change Request #	Title	Summary of Change
		102. The identified thirteen (13) waste sites have exceeded the planned volumetric excavation quantity. The volume beyond the original planned quantity is being moved to Base funded scope per contract modification 124, item 1 (see Attachment 1). The second change increases the original \$5M not-to-exceed ARRA limit for waste site 100-K-63 RTD, established via contract modification 99, to \$7.5M and moves this ARRA funded scope to Base funded scope per draft Change Order 92. In addition, draft contract modification 125 allows \$2.8M to remain ARRA funded, out of the authorized \$7.5M, in order to preserve history. The third directed change is to shift remaining RTD work, specifically the sampling, closeout, backfill and re-vegetation activities, for waste site 100-K-63 from ARRA to Base. This change is also directed by draft Change Order 92 (Attachment 2). The metric changes to ARRA and Base waste site metrics as a result of this change request are identified. There is no change in funding as a result of this change request and no use of management reserve.
BCR-PRC-10-057R0	Mixed/Low Level Waste (M/LLW) Treatment Alignment	RL concurrence to implement this change request into the CHPRC earned value management system is provided. There is no change to contract scope; however, the performance measurement baseline (PMB) scope estimate is revised as follows: This change request documents re-phasing Mixed/Low Level Waste (M/LLW) treatment volumes and timing consistent with the TRU Retrieval Recovery Plan and additional feed streams from the commercial Large Package TRU/M repackaging activity. Both American Recovery & Reinvestment Act (ARRA) and Base work is affected. Treatment Programs were unable to incorporate M/LLW re-phasing in the ARRA Reapportionment change request (BCR-PRC-10-041R0, "ARRA Reappointment, June 2010") due to a late decision to replace TRU Retrieval feed stream with Large Package TRU/M Repackaging scope. In addition, due to a delay in the procurement of trench face processing system (BCR-R013-10-006R0, "Re-phasing Procurement of TFPS"), the planned processing of TRU waste within the ARRA period of performance was replaced with the addition of an equal amount of commercial TRU waste processing (including associated MLLW Treatment for the percentage of repackaged TRU waste estimated to assay out as MLLW). There is no change to funding as a result of this change request and no use of management reserve. The changes to ARRA and Based funded metrics as a result of this change request are identified.
BCR-R13-10-007R0	Trench Face Retrieval & Characterization System Site Preparation Re-Phase	There is no change to contract scope as a result of this change request; however, the performance measurement baseline (PMB) scope is adjusted as follows: Original planning for site preparation for Next Generation Trench Face Retrieval and Characterization System (TFRCS) included the preparation of three retrieval burial grounds, specifically 218-E-12B, 218-W-3A and 218-W-4B, at the same time in parallel. As the final design and technical requirements were developed preparation requirements changed as the sites were being prepared. Instead of continuing with the three site preparations and having to make costly changes to all three sites; the planning changed to prepare the sites sequentially starting first with 218-E-12B. This allows the project to address changes in design and characterization areas for one site, reuse equipment purchased for the first site and then leverage that equipment, knowledge and experience for cost savings on the subsequent two sites. No additional funding is needed as a result of this change request and no management reserve is used.
BCR-R13-10-006R0	Re-Phasing Procurement of	RL concurrence to implement this change request into the CHPRC earned value management system is provided. The Performance Measurement

Change Request #	Title	Summary of Change
	the Trench Face Processing System	Baseline (PMB) American Recovery & Reinvestment and Base scope is revised as follows: Due to the demand and availability of qualified suppliers in the market, the bid process for procurement of the Trench Face Process System was extended to attract an adequate number of bidders, to allow for more comprehensive and responsive bids, and to result in a more competitive procurement. Even with the extended bid period, in the final analysis only two suppliers submitted bids resulting in minimal competition. In addition, changes in the technical approach allowing for increased flexibility and more efficient processing delayed initiation of the procurement action for a Design/Build contract for the Trench Face Process System. Based on these changes, the PMB schedule needs to align to the new design, fabrication, and payment schedule of the selected bidder and to reflect the current cost increases associated with decreased competition. This change request results in an overall increase to the estimated earned value management system (EVMS) contract budget base (<i>not</i> Plateau Remediation Contract budget base) of \$4.9M. Changes are limited to adjustments directly attributable to the selected vendor's proposed cost and schedule. Following the approval of the Final Design for the TFPS, a review of the execution and operations estimate will be conducted and any appropriate changes (including anticipated processing efficiencies) will be submitted in a follow-on change request as appropriate. The ARRA Key Parameters & Performance metrics are not impacted by this change request. Although waste processed is impacted in the near term, other waste processing options continue to be used resulting in no change to the total waste processed through the contract period. No additional funding is required as a result of this change request. As risk is realized, ARRA management reserve is applied in the amount of \$3.5M.
BCR-R40-10-011R0	Miscellaneous Capital Equipment Adjustments, RL-40	There is no change to contract scope as a result of this change request; however, the performance measurement baseline (PMB) scope is adjusted: This change request adjusts capital procurement purchases supporting the American Recovery & Reinvestment Act (ARRA) work scope in RL-40 in fiscal years (FYs) 2010 and 2011. Specifically, the capital procurement of a John Deere 850 excavator boom is removed in FY 2010 and a more general capital procurement activity added in FY 2011. The boom procurement in FY 2010 is no longer needed and a general miscellaneous capital equipment activity is added in FY 2011. There is no overall change in budget as a result of this change request. No additional funding is required as a result of this change request and no management reserve is used.
BCRA-PRC-10-060R0	General Administrative Changes for FY 2010 Year End	This change request documents general administrative changes for FY 2010 year end. Over 75 change requests are implemented in FY 2010, which do require a general year end validation of the P6 schedule coding, CEIS data, automated BCR Log, HPIC data and related system databases. Identified changes by this yearend validation are documented in this administrative change request. In addition, the FY 2010 unexpended management reserve (MR) is transferred to FY 2011 to ensure budget is available to offset potential risks identified in the CHPRC Risk Database. Transfer of the FY 2010 MR into FY 2011 ensures that the amount of MR available to the projects is sufficient for potential risk events. CHPRC is in the process of updating the existing risk profile to reflect the baseline documented in the PRC Baseline, Revision 2 Update. A follow-on change request will be developed in the event this updated analysis determines that management reserve values require further adjustment. Also, HPIC general changes made in September 2010 are documented in this change

Change Request #	Title	Summary of Change
		request. Per TPA Change Order M-91-09-01, "Modification of Hanford Federal Facility Agreement and Consent Order (HFFACO) M-091 Series Milestones", dated 9/15/10 (Attachment 5), FY 2010 TPA milestones M-091-042J-T02 and M-091-40G-T02 are deleted. Only M-091 TPA milestones no longer valid in FY 2010 as a yearend action are addressed in this change request. There is no change to budget, scope or schedule. Earned value methodology changes are made but only on activities not yet started. No additional funding is required as a result of this change request and no management reserve is used, but the unexpended FY 2010 MR is transferred from FY 2010 to the FY 2011 for a net overall management reserve change of zero.
BCRA-PRC-10-058R0	Functional Organization Changes for September 2010	This change request includes two changes: (1) Change in FOC title for WBS 000.17.02.02.01 G&A Rate Adder Offset from 000.5-Business Servs & Prog Controls to 000.5A – PS&S G&A Adder Offset. This change is driven by the need to have consistency between the Cobra Budget Module and the Funds Module. Without this change the Funds module would require extensive modifications. (2) Change in FOC Group title from 3F-Engineering, Procurement & Construction to 3F- Engineering, Projects & Construction. Authorization for this change is CHPRC Communications Log Number CH0912-03. (See Attachment #2 for HPIC changes and Authorization.
BCRA-PRC-10-056R0	Transfer Mobile Office Leases to Expense	It has been determined that the Mobile Office leases as identified in this change request under work breakdown structure (WBS) element 000.19.01.01 06.03 do not meet Capital Equipment Not Related to Construction (CENRTC) criteria. DOE has confirmed that these leases should be identified under the Expense project type. Therefore, it is necessary for the identified lease budget items in WBS 000.19.01.01.06.03 and the associated subcontracts (see Attachment 1) be moved to a new WBS element, 000.19.06.02.04, as Expense. This change impacts the actual G&A application cost distribution to the PRC Project Specific Distribution (PSD), which is reduced, and the PRC G&A Distributions (PS&S), which is increased, resulting in no overall change. The budgeted cost of work scheduled (BCWS) for these allocation accounts are not changed. There is no use of management reserve and no change in scope as a result of this change request.
BCRA-013-10-013R0	Expense to Capital for Storage Tent at CSB	Procurement and installation of a storage tent near the Canister Storage Building (CSB) in 200 East Area requires the project type of this work scope to be changed from expense to Capital Equipment Not Related To Construction (CENRTC) per capital determination analysis. The storage tent will fulfill requirements to store Nuclear Quality Assurance (NQA-1) material and equipment in an environmentally controlled location and to segregate it from non-NQA-1 material. This change request capitalizes FY 2011 expense work scope based on a recent capital determination (attached). Work is scheduled to be performed during the first quarter of FY 2011. There is no change in overall budget or scope; no additional funding is required and no management reserve is used.

Overall, the contract period PMB budget is increased \$21,630.1K in September 2010. Management reserve, in the amount of \$3,500K, is used as risk #PRC-042, "Required resources not available", is realized in RL-0013. 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 September 2010, is an increase of \$18,130.1K and is summarized by fiscal year in the tables below (negative number represents reduction):

September 2010 Summary of Changes to Estimated Contract Price

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014-2018
August 2010 Contract Price						
PMB	653,426	987,491	998,369	695,109	3,951,512	2,432,842
Mgmt Rsrv (MR)	0	25,246	30,163	30,200	117,909	86,300
Fee	39,712	48,772	49,036	40,377	210,649	93,429
Total	693,138	1,061,510	1,077,567	765,687	4,280,070	2,612,571
Change by Funding Source to Contract Price in September 2010 (11BCRs)						
PMB						
ARRA						
All ARRA WBSs	0.0	-23,596	7,625	0	-15,972	0
Base						
All Base WBSs	0	-3,877	30,516	-1,266	19,326	18,276
Change to PMB	0	-27,474	38,141	-1,266	3,354	18,276
MR						
ARRA						
All ARRA WBSs	0	-13,746	10,246	0	-3,500	0
Base						
All Base WBSs	0	-11,500	11,500	0	0	0
Change to MR	0	-25,246	21,746	0	-3,500	0
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	-52,720	59,887	-1,266	-146	18,276
September 2010 Contract Price						
PMB	653,426	960,017	1,036,509	693,843	3,954,866	2,451,117
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	1,137,454	764,420	4,279,924	2,630,846

Changes to/Utilization of Management Reserve in September 2010

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
Management Reserve (MR) - End of August 2010							
ARRA	RL-0011.R1	0	1,700	2,000	0	3,700	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	4,133	2,292	0	6,425	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	1,414	3,371	0	4,784	0
	RL-0040.R1.1	0	2,000	2,800	0	4,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	4,500	6,200	0	10,700	0
ARRA Total	0	13,746	16,663	0	30,409	0	
Base	RL-0011	0	1,000	1,500	11,000	23,700	0
	RL-0012	0	3,800	3,800	3,500	14,600	12,200
	RL-0013	0	1,000	500	4,000	11,500	23,000
	RL-0030	0	3,000	3,500	4,500	15,400	9,000
	RL-0040	0	2,000	3,000	3,500	13,000	23,400
	RL-0041	0	500	1,000	3,500	8,500	17,700
	RL-0042	0	200	200	200	800	1,000
	Base Total	0	11,500	13,500	30,200	87,500	86,300
MR Total	0	25,246	30,163	30,200	117,909	86,300	
Changes to/Utilization of Management Reserve in September 2010							
ARRA	RL-0011.R1	0	-1,700	1,700	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	-4,133	633	0	-3,500	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	-1,414	1,414	0	0	0
	RL-0040.R1.1	0	-2,000	2,000	0	0	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	-4,500	4,500	0	0	0
ARRA Total	0	-13,746	10,246	0	-3,500	0	
Base	RL-0011	0	-1,000	1,000	0	0	0
	RL-0012	0	-3,800	3,800	0	0	0
	RL-0013	0	-1,000	1,000	0	0	0
	RL-0030	0	-3,000	3,000	0	0	0
	RL-0040	0	-2,000	2,000	0	0	0
	RL-0041	0	-500	500	0	0	0
	RL-0042	0	-200	200	0	0	0
	Base Total	0	-11,500	11,500	0	0	0
MR Total	0	-25,246	21,746	0	-3,500	0	
Management Reserve - End of September 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	

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 9/30/2010								Planned Subcontracting*	\$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	\$1,445,269,010
Reporting Classification	ARRA		Non-ARRA		Total (\$)	Percent of Total	Goal (%)	Balance Remaining to Award =	\$1,079,214,185
	(\$)	%	(\$)	%				Goal Award (\$)	Bal. to Goal (\$)
SB	\$333,193,164	55.85%	\$375,005,033	44.19%	\$708,198,197	49.00%	49.30%	\$1,244,570,215	\$536,372,018
SDB	\$65,967,026	11.06%	\$62,615,912	7.38%	\$128,582,938	8.90%	8.20%	\$207,007,622	\$78,424,684
SWOB	\$77,735,454	13.03%	\$65,369,801	7.70%	\$143,105,255	9.90%	6.50%	\$164,091,408	\$20,986,152
HUB	\$9,055,046	1.52%	\$12,790,836	1.51%	\$21,845,883	1.51%	3.20%	\$80,783,462	\$58,937,580
VOSB	\$51,924,657	8.70%	\$32,657,813	3.85%	\$84,582,470	5.85%	2.00%	\$50,489,664	(\$34,092,806)
SDVO	\$7,934,803	1.33%	\$8,569,472	1.01%	\$16,504,275	1.14%	2.00%	\$50,489,664	\$33,985,389
NAB	\$6,633,723	1.11%	\$5,248,031	0.62%	\$11,881,754	0.82%	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: \$4,847,121,172 17% requirement: \$824,010,599 Awarded: \$708,198,197 Balance to Requirement: \$115,812,402	
Large	\$176,547,311	29.59%	\$276,251,919	32.55%	\$452,799,230	31.33%	0.00%		
GOVT	\$67,921	0.01%	\$888,652	0.10%	\$956,573	0.07%	0.00%		
GOVT CONT	\$86,748,257	14.54%	\$193,251,478	22.77%	\$279,999,734	19.37%	0.00%		
EDUC	\$2,669	0.00%	\$49,009	0.01%	\$51,678	0.00%	0.00%		
NONPROFIT	\$30,960	0.01%	\$3,108,413	0.37%	\$3,139,373	0.22%	0.00%		
FOREIGN	\$28,080	0.00%	\$93,434	0.01%	\$121,514	0.01%	0.00%		
Total	\$596,618,362		\$848,650,648		\$1,445,269,010				

Notes:

1. Performance through September 2010 continues to exceed goals in the Disadvantaged Business, Woman Owned, and Veteran Owned categories. The drop below the overall Small Business goal is most likely due to the year-end extensions of large business contracts.
2. Forty-nine percent of awards have been made to small businesses with over 55% of ARRA awards to small businesses.
3. ARRA-funded awards have accounted for 40% of all actions placed since contract inception.
4. Over 94% of the total dollars arise from service and staffing Contracts and Contract amendments with less than 4% of the dollars arising from P-card purchases and the balance from purchase orders for materials and equipment.
5. This report excludes blanket contract values which are only estimates and not used for payment obligations.
6. 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