

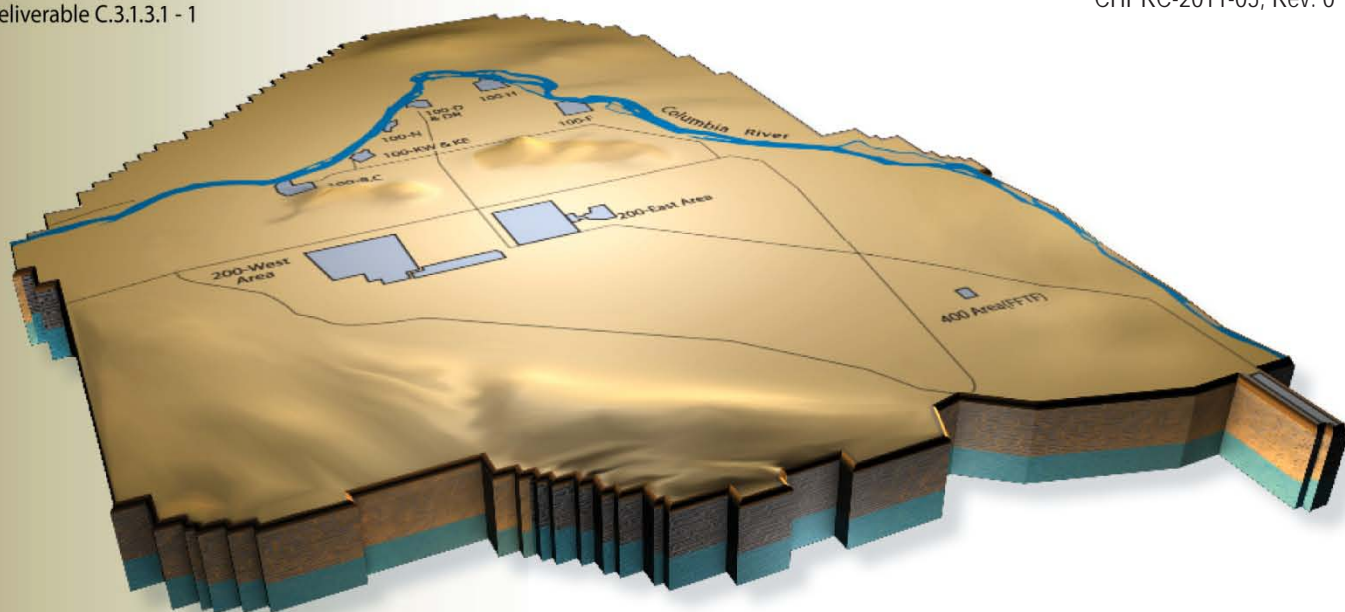


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President and Chief  
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# Monthly Performance Report

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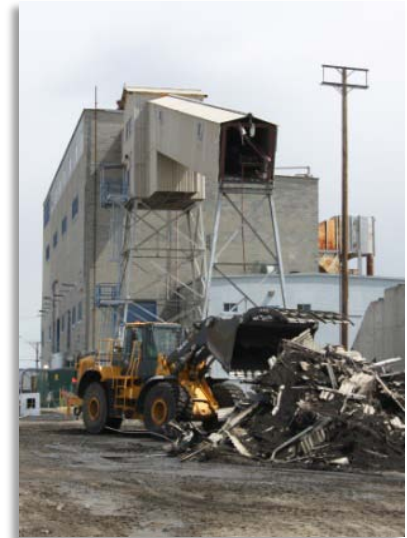
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## EXECUTIVE SUMMARY



**12B burial ground low-level waste drums**

The Waste & Fuels Management Project completed two shipments of transuranic (TRU) waste debris to Perma-Fix Northwest. The waste will be repackaged into other containers and then returned for certification for ultimate disposal at the Waste Isolation Pilot Plant. This waste is part of the Recovery Act-funded effort to ship 2,000 cubic meters of TRU waste offsite by the end of fiscal year 2011.



**284W Power House lower conveyor structure**

The D&D Project is continuing demolition and debris cleanup on the crusher house and lower conveyor structures associated with the 284-W Power House. Inside the power house building, abatement continues on the first and second floors. The 284-W Power House is one of three facilities remaining for demolition with Recovery Act funds at the Central Plateau.

The Engineering, Projects & Construction (EPC) project continues construction on the 200 West Groundwater Treatment Facility, Hanford's largest groundwater treatment facility. Activities include installation of instrumentation, piping and controls as well as racks, panels, pumps, conduit and lighting. Project construction stands at 71 percent complete.



**200 W Groundwater Treatment overhead crane**

The Soil & Groundwater Remediation Project team completed installation of groundwater wells with Recovery Act funds, having drilled a total of 303 wells and surpassing the goal to install 265 wells by the end of fiscal year 2011. This includes 22 wells that will support the 200 West Groundwater Treatment Facility. The 100-DX groundwater treatment facility, completed in December 2010, has since treated more than 94 million gallons of groundwater. Additionally, 230 of a planned 280 wells have been decommissioned and 61 waste sites on the Central Plateau and at the 100K Area along the Columbia River have been remediated.

The Plutonium Finishing Plant Closure Project team is preparing the plutonium vault storage complex at the Plutonium Finishing Plant (PFP) for demolition. The facilities have been declared safe for the deactivation of criticality detection and alarm systems. Workers isolated the steam supply and preparations are under way to deactivate all electrical power to the facilities, one of the last steps in bringing the facilities to cold and dark and "demolition ready" status. Crews are

also removing contaminated ductwork that cannot be left in place during the upcoming demolition, scheduled to begin this summer.

## Focus on Safety

The monthly President's Zero Accident Council (PZAC) was hosted by the Safety, Health, Security and Quality (SHS&Q) organization. The May PZAC had three principal themes:

- Electrical Safety Month
- Bicycle Safety
- Heat Stress Awareness

Four injury reports were presented, detailing each event, including error precursors, corrective actions, and lessons learned. The CHPRC injury and illness statistics were discussed, including an upward trend in cuts and eye irritations.

The CHPRC Support Services (functional groups) safety council, in response to its 2011 Safety Improvement Plan commitment, rolled-out the Hanford Harry accident scene display, depicting the hazards of unsafe stairway usage.

In May, four Thinking Target Zero bulletins were published addressing the following topics:

- Questioning Attitude
- National Stroke Awareness Month
- Safe Use of Jacks
- Chemical Management: Material Safety Data Sheets (MSDS)

The Weekly Safety Tailgate briefing packages for May delivered such relevant topics including: electrical safety reminders, heat stress awareness, the value of accurate emergency contact information, WOW safety observations, eye safety, management observations, trending of issues, fall hazards, smoke-free workplace, lockout/tagout, barbecue safety, portable ladder safety, ride-sharing, and injury and close call summaries. CHPRC was represented well at the 2011 Health and Safety Expo. Taking up the length of an entire row at the Pasco Trac Center, seven booths demonstrated to coworkers, other contractors, and local families the many ways CHPRC successfully and safely performs work. CHPRC was presented with three Expo awards: the Most Unique Safety and Health Booth (PFP Closure Project Historic Booth), the Most Interactive Safety Booth (D&D Project), and the Best Corporate Presence.

A CHPRC Safety Back to Work was conducted by every organization and Project on May 31st, the first work day following the Memorial Day Weekend. The purpose of these sessions was "Focusing on Safety." Understanding that it's normal to be distracted following long periods away from work, and that distractions can lead to increased injuries and events, CHPRC proactively took the initiative to reiterate safe work expectations and remind the workforce that "if it can't be done safely, we won't do it!"

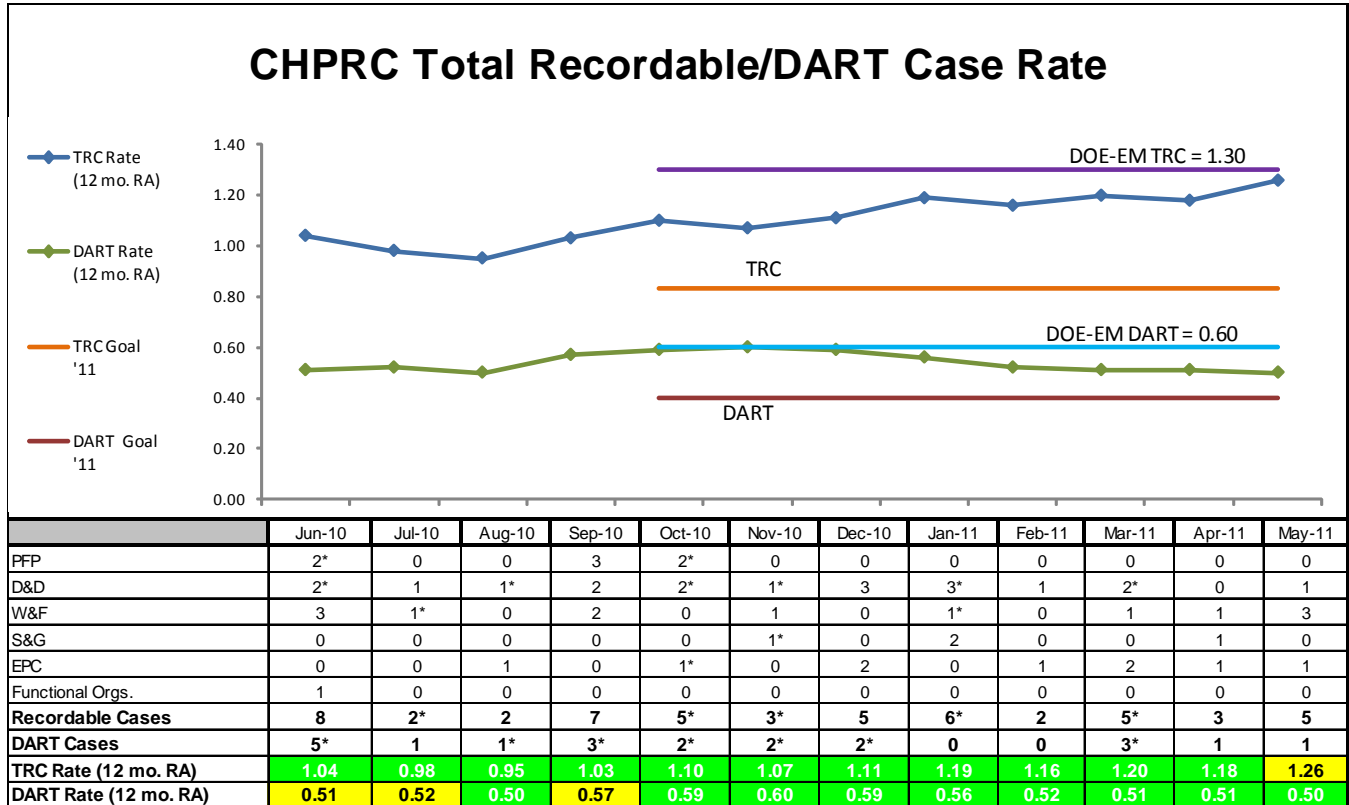




## TARGET ZERO PERFORMANCE

May 2011

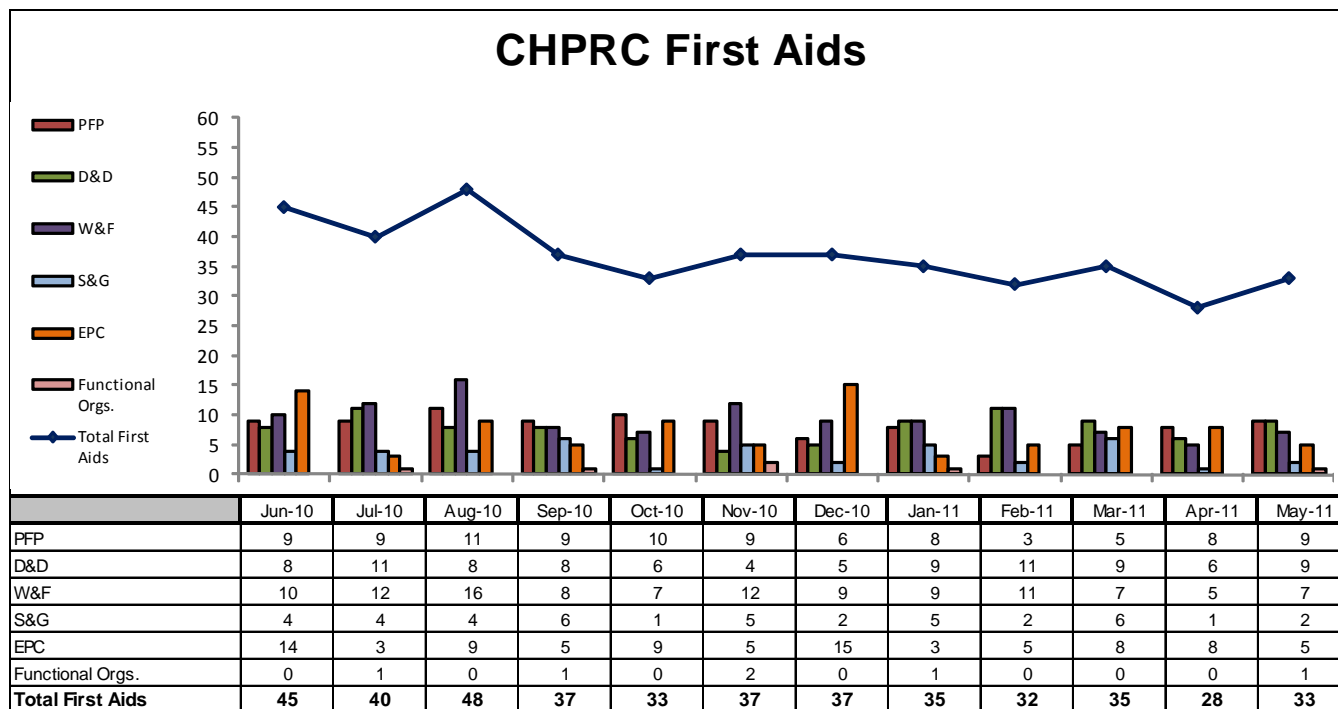
CHPRC continued focusing on integrating safety programs in all program and project areas.



**Total Recordable Injury Case (TRC) Rate** – The 12-month rolling average TRC rate of 1.26 is based upon a total of 53 recordable injuries for the period. There were five Recordable cases in May. There are currently two cases under review requiring additional information.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12-month rolling average DART rate of 0.50 is based upon a total of 21 cases (11 Days Away, 10 Restricted).

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



**First Aid Case Summary** – Thirty-three first aid cases reported in May. The biggest contributors were 11 sprains, strains and/or pains, and nine abrasions or bruises from contact with objects. Of the 14 sprains, strains, and/or pains, most resulted from awkward positions, motion, or overexertion. Seven of the first aids were from slips/trips/falls. Three first aid cases where employees reported eye issues.

## PROGRAM SUMMARIES

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

Active CHPRC participation in the Site Wide Standard (multi-contractor) committees continued in May, with each working on defined actions to support the implementation schedules for Fall Protection, the Industrial Hygiene Database, Confined Space, Respiratory Protection, and Electrical Safety. In addition, multi-contractor committees continued to meet to develop site-wide processes new this fiscal year, the Employee Job Task Analysis, and to enhance site-wide standards already implemented such as Excavation Safety and Lockout/Tagout (LO/TO).

Occupational Safety & Industrial Health formally incorporated human performance reviews as part of the process to report injuries and illness. This concept was adopted for the LO/TO process through the development and issuance of a hazardous energy control management directive requiring a briefing to senior management when a LO/TO performance issue occurs.

CHPRC actively participated in the 2011 Hanford Health and Safety EXPO, held on May 17 and 18; and the OSHA Voluntary Protection Program Participants’ Association (VPPPA) Region X Conference held May 17 through May 19 in Portland, Oregon - delivering three informative worker safety-related presentations.

Radiological Protection improved the radiological work planning process to support Integrated Corrective Action Plan and Phase II Work Control implementation and creating planning tools to estimate airborne radioactivity and projected dose for work activities. Radiological Protection also issued PRC-PRO-RP-40199, *Fixed Contamination Area*, to standardize the process at a company level, allowing the cancellation of project specific procedures.

In May, Emergency Preparedness (EP) conducted 15 EP drills, including seven operational drills. Preparations continued for the PFP Third Quarter RL Evaluated Exercise scheduled for June 16, 2011. Improvements for field response to anomalies took a giant step forward as EP received and began readying the TALON robot and the MOVERS radiological emergency response vehicle for deployment.

### **Environmental Program and Strategic Planning (EP&SP)**

#### **Environmental Management System (EMS)**

All EMS Objectives and Targets are on, or ahead of schedule.

#### **Compliance Inspections and Reviews**

PFP Underground Storage Tank: The Yakima Office of the Washington State Department of Ecology requested photographs documenting the removal of the 2721-2 underground storage tank at PFP. The photographs were provided and no concerns or issues were noted.

Waste Receiving and Processing Facility (WRAP) Container Leak: Met with the Washington State Department of Ecology to continue discussion and answer questions in regard to the leaking container discovered at the 2404WB building.

National Pollutant Discharge Elimination System (NPDES) Permit Terminated: Received approval from EPA Region 10 for termination of NPDES Permit Number WA-002591-7, due to the permanent cessation of wastewater discharge to the Columbia River at 100K, effective June 1, 2011. This marks the end of Hanford wastewater discharge to the Columbia River which began in the 1940s.

WRAP Radiological Inventory Compliance: EP&SP modified an emission factor used to estimate radionuclides in storage. This included the development of an ALARA and Compliance Plan which were approved by the regulatory agencies.

Hanford Site-Wide Permit Support: EP&SP and W&FMP prepared and provided numerous documents in support of the Ecology Resource Conservation and Recovery Act of 1976 (RCRA) Site-wide permit renewal effort. EP&SP staff is preparing for expedited draft permit condition review and comment efforts when the permit is issued this summer.

Air Operating Permit Certification: CHPRC provided certification for the Hanford Site Air Operating Permit renewal application for submittal to RL on May 26.

#### **Risk Integration**

ERDF Performance Assessment (PA): EP&SP met with Tank Closure and Waste Management Environmental Impact Statement to share the ERDF PA modeling general approach, identify departures from the EIS model, and establish rationale for further analyses.

Waste Management Area C Performance Assessment: A presentation was made by the Risk and Modeling Integration organization on May 26th in support of Washington River Protection Solutions (WRPS) for the Waste Management Area C PA scoping effort. Topics included: modeling software configuration management, modeling quality assurance and the extent of STOMP validation, verification and benchmarking.

#### **Business Services**

The 2011 Inventory of Sensitive Property and Equipment continued and is on schedule for completion in July. There are 6,879 items to be inventoried valued at \$124M. To date, 6,272 (or 91 percent) of the items have been accounted for. There have been no reported losses.

Facilities and Property Management has developed a detailed schedule for the removal and return of ARRA leased mobile offices. The first group of units located at 4<sup>th</sup> and Baltimore in 200E is scheduled for initial preparation for return in late June, to be followed by units at the 284E Powerhouse and the 209E D&D site. The balance of units will be scheduled for removal following work force restructuring.

The procurement group awarded 77 new contracts with a total value of \$5.1M, amended 325 existing contracts with a total value of \$5.4M, and awarded 443 new purchase orders valued at \$2.0M to support Base/ARRA acceleration objectives.

As measured at the end of the first 32 months, procurement volume has been significant; \$1.71B in contract activity has been recorded with approximately 49 percent or \$839M in awards to small businesses. ARRA funded activity totals 43 percent or \$733M of the grand total. This includes 5,092 contract releases, 9,395 purchase orders, and over 166,000 P-Card transactions.

November 2010 P-Card file documentation has been reviewed, scanned, and uploaded into the Integrated Document Management System (IDMS). December data has been reviewed. Also began reviewing files for January through March 2011.

Material Services provided PassPort Design Authority (DA) Training to four Groundwater DAs and one K-West DA and provided PassPort Refresher and new Asset Suite review for the Groundwater Facility Spares Representative.

CHPRC worked with MSA to determine Building 437, which is listed as demolished, is in use by the Sludge Treatment Project. A number of spare parts and convenience storage items are assigned to this building.

Material Services assisted the Waste Receiving and Processing Facility (WRAP) DA in procuring a 50 horsepower motor from MSA Convenience Storage. This motor had been marked for deletion and added to an MSA Declaration of Excess. The motor was recalled and placed into service for WRAP. Spare Parts Subject Matter Expert (SME) conducted beta testing on PassPort's Asset Suite, which goes into production in June.

Material Services provided P-Card data reports to CHPRC Environmental as part of the annual reporting to RL.

### **Prime Contract and Project Integration (PC&PI)**

The KPMG audits of change proposals responding to change orders #54 (Modification 95 – Implementation of Tri-Party Agreement Changes) and #114 (100-HX Pump and Treat System) were completed. Change Management was responsible for developing and providing responses to the associated findings and the required management representation letters.

Working with the associated projects, Change Management initiated preparation of detailed responses to the findings associated with the RL sponsored KPMG audits of change orders #9 (Sludge Treatment Project) and #30 (200-ZP-1 Operable Unit Operations and Maintenance). Resolution of these findings is required to enable finalization of the negotiations and closure on these change orders. Responses are to be formally provided to RL by June 30, 2011.

Contract Compliance and Change Management and project representatives met with RL to hold technical discussions in support of negotiations to definitize open PBS RL-040 change orders #89 (Asbestos Abatement {56 locations}), #119 (Water Tower Demolition), #122 (Outer Zone RTD), and #123 (Dispose of Locomotive and Railcars) and PBS RL-013 change order #69 (WESF Ventilation Upgrade {design only}).

Contract Compliance and Change Management met with RL to review the final draft and recommended corrective actions for the management assessment of the change management processes and deliverables. The draft report was modified to address RL feedback and prepared for final issuance. The final report will be issued in June and the follow-up actions entered into the Condition Reporting and Resolution System (CRRS) to facilitate tracking to completion.

During May, Contract Compliance received and processed five contract modifications (numbers 156, 158, 163, 166, and 167) from RL. The Correspondence Review Team reviewed and determined the



distribution for 43 incoming letters and the Contract Compliance Manager reviewed 54 outgoing correspondence packages.

Contract Compliance and Change Management, Finance, and Procurement completed and submitted to RL on May 20, 2011 current FY 2011 labor rates, including ICWEA corporate support and each subcontractor with ten or more employees. These rates are being used by to prepare cost estimates.

CHPRC continued the tasks associated with implementation of the Timberline estimating software, including documentation of steps required for implementation, identification and creation of standard templates for repetitive site work, and software training for cost estimating staff.

A representative of Contract Compliance and Change Management participated in the May 25 and 26, 2011 Cost Estimating and Training Symposium sponsored by the DOE Office of Engineering and Construction Management.

CHPRC drafted a revision to the Project Execution Plan to reflect organizational changes and to better explain how contract changes are managed.

PC&PI assisted the projects in finalizing the CD4 completion documentation for RL30.R1.1, KPP 3.

PC&PI drafted a desk instruction for the establishment and utilization of management reserve.

CHPRC submitted a Draft document “*Inventory Date Package for ERDF Waste Disposal*” to Washington Closure Hanford for review.

CHPRC reviewed fire systems maintenance scope of work in the MSA prime contract and worked with MSA to resolve dispute on who pays for fire extinguisher maintenance.

Interface Management modified the Service Level Agreement (SLA) with ATL to remove the unfunded scope of work from the S&GRP section of the SLA.

CHPRC worked with MSA Fleet Management and agreed to a time/cost savings change in the delivery of Government Services Agency vehicles.

Interface Management modified the Memorandum of Agreement between CHPRC and CSC to reflect the new company name and corrected points of contact.

Interface Management worked with MSA to expedite the process of hiring temporary riggers to support project needs through the rest of the fiscal year.

Interface Management worked with MSA and the projects to provide input to the Central Plateau Area Management Plan.

CHPRC completed the reviews and approval of a modification to the 200 Area Treated Effluent Disposal Facility Interface Control Document.

CHPRC developed a template for use by MSA in support of forecast of services for the out years in the Infrastructure Services Alignment Plan (ISAP).

### **Engineering, Projects and Construction (EPC)**

Central Engineering (CE) assisted with resolution of the low compressive strength test results of the grout placed in the U Canyon Northern Electrical and Piping Galleries (Specified Grout is for 1,500 pounds per square inch (psi), average compressive test results were 1,070 psi).

CE travelled to Knox, IN in support of the 200 West Pump-and-Treat Project. Subcontractor work on the Vapor Phase Granular Activated Carbon (VPGAC) Roll-Off Containers had been put on hold pending resolution of welding issues. CE met with the subcontractor to review the issues, assess subcontractor capabilities, and identify a path forward to allow container fabrication to resume.

At the request of the Office of Engineering and Construction Management (OECM), CE moderated a panel on Design Maturity for Capital Projects at the OECM Cost Symposium, part of the DOE Chief Financial Officer Conference.

CE reviewed the technical evaluation document (PRC-PRO-EN-24208, *High-Efficiency Particulate Air (HEPA) Filter Degradation Evaluation Process*) that provides justification for the continued use of the HEPA filters at WRAP, at T Plant, and in the Waste Encapsulation and Storage Facility's K3 confinement ventilation system. The technical evaluation documents for the WRAP and T Plant filters were approved and documentation forwarded to RL. The technical evaluation document is planned to be submitted to RL for concurrence in July.

CE presented information on lessons learned from the Mixed Oxide Peer Review conducted in March 2011, DOE Order 413.3B training options, and a discussion of required design maturity levels as a part of the Energy Facility Contractors Group Project Management Working Group. CE was also assigned to complete a white paper outlining innovative acquisition strategies for projects, with respect to contract type and phasing.

CE checked the calculation (PRC-STP-CN-C-00428, R0) that verifies the structural adequacy of the existing KW Basin concrete floor. The calculation supports the installation of the Sludge Treatment Project Engineered Container Retrieval and Transfer System new Ingress/Egress Transfer System Pipe Assembly. The calculation was prepared by STP, checked and reviewed by CE Engineers.

CE evaluated electrical code compliance questions for 200W Pump-and-Treat and prepared suggested closure actions. Recommendations were made to the National Electrical Code Inspector and responsible construction management personnel.

CE responded to D&D corrective action # CR-2011-1183 regarding the worker who stepped through the ceiling in 284W Power House. CE conducted an assessment of the adequacy of the CHPRC process used to document engineering design and inspection and working at elevated heights (CHPRC Administrative Procedures PRC-PRO-EN-097, PRC-PRO-SH-10321, and PRC-RD-SH-8801). A determination was made that directions for the design and performance process are clearly defined and do not require revision.

CE is participating with the DOE-HQ team in the update & revision of DOE-STD-1020-2002, *Natural Phenomena Hazards Design and Evaluation Criteria for DOE Facilities*. The proposed revision will be DOE-STD-1020-2011, same title, and will incorporate the seismic requirements defined in DOE-STD-1189. A draft document was presented to the DNSFB for review and comments.

CE continues to serve on the Management Assessment Team for the U Canyon Northern Electrical and Piping Galleries and the Canyon Cells Grouting. The grouting for the Electrical and Piping galleries is completed and an assessment plan for the grouting of the cells is being developed.

## Communications

### Public Involvement:

Stakeholder Relations coordinated the 200-PW-1, 200-PW-3, 200-PW-6, and 200-CW-5 Operable Units Proposed Plan presentation to the Hanford Advisory Board (HAB) River and Plateau Committee.

CHPRC continued development of presentation and outreach materials to support the June 7, 2011 Deep Vadose Zone Technology Information Exchange.

Communications continued providing support in the preparation of public information materials for the impending Nonradioactive Dangerous Waste Landfill/Solid Waste Landfill Environmental Assessment public comment period.

Stakeholder Relations drafted a fact sheet for the upcoming public comment period on the Proposed Plan for the Remediation of 200-UP-1 Operable Unit.

Communications provided CHPRC project accomplishment input for the RL update to the HAB.

### Media Relations

Communications produced and issued press releases, and provided supporting photos, on delivery of locomotives to B Reactor.

CHPRC developed a press release on grouting of the U Canyon process cells.

Communications publicized Transuranic (TRU) Waste shipments beating Tri-Party Agreement deadlines for removing waste to WIPP. The news was covered in the *Tri City Herald*, *Associated Press*, *Weapons Complex Monitor* and *Waste & Recycling News* magazine and website.

CHPRC collaborated with RL public affairs on a news release announcing CHPRC soil and groundwater exceeding RL goals for drilling wells on the Hanford Site. The release prompted news coverage in the *Tri City Herald* and *Associated Press*.

CHPRC collaborated with RL public affairs on a news release announcing TRU waste shipments exceeding the Tri-Party Agreement Milestone for shipping 1,000 cubic meters of TRU waste four months ahead of schedule.

### Tours

External Affairs continued coordinating the 100K Area portion of the 2011 Hanford Public Tours.

CHPRC provided tour support for the Hanford Communities tour of TRU trenches and PFP.

CHPRC hosted the Washington State University Foundation, providing an overview of Hanford, prior to the scheduled tour of Hanford

External Affairs supported EPA Region 10 Administrator's tour of 200 West Pump-and-Treat

Communications supported preparation for Leadership Tri Cities tour of 100 K Area.

### Internal Communications

CHPRC continued rolling out the Workforce Restructuring Communication Plan on the Self-Select Program. Wrote and sent the Human Resources Self-Select Reminder, All Employee Message.

Communications continued rolling out Environmental Management System (EMS) Communications campaign to meet company targets and objectives.

Communications reviewed three abstracts for presentation at the RL Integrated Safety Management Champions Symposium.

Communications provided support for rolling out the new CHPRC Team Employee Incentive Program.

Communications updated the S&GRP intranet site.

Communications produced weekly internal D&D Project bulletins and biweekly safety posters promoting the “EZAC Safety Challenge” between projects. The campaign has been successful; participation in the challenge is rising rapidly and project safety statistics are also improving.

CHPRC developed and implemented a communications plan to announce the extension of the PFP Key Performance Parameters schedule.

## 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. The project continued with no lost work days or other recordable injuries in May, attaining more than 1.58 million work hours without a lost workday injury. The project also completed 120 days without a reportable event involving hazardous energy control, radiological control or conduct of operations. Nine minor first aid injuries were experienced during the month.

### **ARRA**

Removal of plutonium-contaminated process equipment continued as a top priority in readying the PFP Complex for demolition, with a particular focus on removal of gloveboxes and associated piping and ductwork from the process, lab, and vault areas. Glovebox Deactivation, Decommission, Decontamination, and Demolition (D&D) is complete in the backside vault rooms, Standards Laboratory, Analytical Laboratory, and the Radioactive Acid Digestion Test Unit (RADTU). A total of 124 gloveboxes have been removed to date with Recovery Act Funds. Of these, 107 have been shipped out of PFP for treatment or disposal and eight have been set aside and staged for size reduction and disposal as transuranic (TRU) waste. Three gloveboxes were shipped to an offsite treatment facility for size reduction—A Labs 152-522, RMA Active Room 235B HA-19B1 and HA-19B2. Size reduction of glovebox, HA-22B, was completed. The team then placed the Room 172 size reduction station in a safe condition and relocated to prepare for in-situ size reduction in Room 227. Recovery actions were completed for the contamination event in the 234-5Z duct level and the process areas were released for resuming intrusive work.

The 2736ZB building has been declared operationally clean which allows for deactivation of safety significant systems in preparation for building demolition. In response, the fire systems panels and pull boxes were deactivated. The 2736Z/ZB complex vault team has size reduced for disposal all the auxiliary exhaust and emergency exhaust in room 642. This exhaust was contaminated and removed for demolition. Fifty percent of the 2736Z/ZB complex filters have also been removed in preparation for demolition. The underground diesel storage tank supporting 2721Z was removed and sent to Environmental Restoration Disposal Facility (ERDF) for disposal. All sampling of the soil surrounding the diesel tank and transfer lines was completed and analyses did not reveal diesel contamination.

In the Plutonium Process Support Laboratories (PPSL), door/wall modifications were completed and six of the seven gloveboxes remaining in Room 179 were transferred to waste operations. Two gloveboxes remain to be removed. Glovebox 188-1 protrusions need to be removed to reduce interferences that might be encountered in loading for shipment. The D&D Team began clean out of Glovebox 179-1, which is scheduled to be removed at the end of June.

The final Key Performance Parameter (KPP) completion criteria for the Radioactive Acid Digestion Test Unit (RADTU) process area—cleanout was completed and the area turned over to waste operations for future use.

Glovebox removal work is ongoing in the Remote Mechanical A (RMA) and Remote Mechanical C (RMC) Lines. The final actions were completed and verified for in-situ disposition of the large Glovebox HA-46. The glovebox has been cleaned out to meet low-level-waste disposal criteria and, since it forms the south wall of the adjacent hydrogen fluoride scrubber cell, it will be left in place for removal during building demolition. In the RMC Line the 25-foot long HC-3 and HC-4 conveyors were removed. These are the last gloveboxes in Room 230C.

The 242Z Americium Recovery Facility D&D team completed size reduction, removal, and disposition of the WT-4 and WT-5 gloveboxes, completed layup of the facility for the balance of FY2011, and shifted to decontamination of large glovebox HA-23S, the final glovebox in 235B of the RMA Line.

Work has not restarted on removing highly contaminated piping from 234-5Z, as the process vacuum piping team and transfer line removal teams continue to support other high-priority PFP work. Total process vacuum piping removed remained at 1,210 feet, and process transfer line removal remained at 491 feet. Insulator crews have removed 443 feet of asbestos from piping and ductwork, bringing the total linear footage completed at PFP with Recovery Act funds to 14,319 feet.

As the pace of D&D work has accelerated at PFP, so have waste generation rates. CHPRC has now shipped approximately 3,233 cubic meters of waste from PFP with support from Recovery Act funds, including 2,637 cubic meters of low level and mixed low level waste, 527 cubic meters of TRU waste, and 24 cubic meters of nonradioactive waste.

MSA Electrical Utilities energized the two trailer-mounted transformers, which were installed to support temporary power distribution systems. Underground diesel storage tank Tk-701-12B and associated fuel transfer lines were removed, size reduced, and shipped to the ERDF for disposal. In addition, two large breathing air compressor trailers (2711-B1 and 2711-B2) were removed from the PFP area for transfer to the Mission Support Contractor for reuse or excess. This increases the total number of ancillary structures demolished or removed to 25.

## **Base**

**236Z Plutonium Reclamation Facility** – The pencil tank counter balance, band saw frame, and modified band saws were transferred into the canyon. The counter balance will be used to relocate the pencil tank strongbacks from the maintenance cell to the canyon walls.

The pencil tank counter balance was placed on the pencil tank assembly 17 (Tank 17) strongback counter weight bail. The counter balance mounting hangers did not fully engage onto the bail. The transfer of the strongback was stopped, counter balance removed, and modification completed. The counter balance was successfully hung on the Tank 17 strongback and the strongback relocated to the center of the maintenance cell for Nondestructive Assay (NDA) in support of planning for preparing the canyon for demolition.

Reactivation of the Miscellaneous Treatment (MT) glovebox 5 (MT-5) was initiated.

## **RL-0012 Spent Nuclear Fuel Stabilization and Disposition**

The project held the Phase 2 Decision Support Board (DSB) Workshop the week of May 9-12. The workshop recommendation was to proceed with warm water oxidation as the baseline technical approach. A second recommendation is to develop a demonstration in parallel for size reduction of the U-Metal using immersion milling and Fenton's Reagent (oxidation using peroxide addition catalyzed by ferrous ions and chloride). The facilitator and project staff developed a report of the meeting presentations and discussion points and delivered it to RL.

The Knockout Pot (KOP) subproject initiated the Pretreatment Operating Campaign on May 5, having completed the Readiness Assessment the previous day. The density separation process of the fuel



canisters of KOP material functioned as designed. A hose breach in the Integrated Water Treatment System interrupted the campaign in mid-May, however, and was replaced later in the month. The campaign is to be completed late June or early July 2011, well ahead of the September 30, 2011 TPA Milestone.

KOP Processing System (KPS) qualification was initiated at Maintenance and Storage Facility (MASF) on April 28, following installation of the required hardware. Although solid progress has been made to complete the testing objectives, such as validating the accuracy and repeatability of the Verification Volume Measurement Tool function, testing activities and the resolution of emergent testing deficiencies are taking longer than initially planned. The KPS qualification testing activities are scheduled to be completed in early June. This delayed completion still puts the subproject in a good position to achieve the September 30, 2011 TPA Milestone.

The Engineered Container Retrieval and Transportation System (ECRTS) subproject continued integrated (TRL-6) testing at MASF with three simulants planned. K West simulant testing, the first of three, was completed with demonstration of retrieval/transfer/decant of K West sludge from an engineered container to a Sludge Transport and Storage Container (STSC). K East simulant (the second of three simulants planned) testing is in progress. Retrieval/Transfer of K East simulant has been successfully performed, although decant of the simulant has been more difficult than expected. Additional testing indicates that additional flocculent may facilitate settling and decant of the K East material. Retrieval/transfer/decant of the K East simulant will continue as planned. Testing of settler sludge (the third of the three simulants) will follow.

Activities in support of the K West Annex continued during the month. AREVA Federal Services' (AFS) internal review of the final modification preliminary design continued, with submittal on track for the end of the month. Earlier in the month, the ECRTS subproject initiated regularly scheduled weekly meetings with K West Operations, Maintenance, and RadCon personnel, with meeting agendas including review of the ECRTS process and an overview of the modified K West Annex at the first meeting and the conducting of an electronic walk-through of the modified K West Annex model at the second meeting.

The Sludge Treatment Project (STP) transportation subcontractor, AFS, issued the final shielding analysis for the transport of settler sludge within the Sludge Transport System (STS), which showed that the calculated dose rates – with or without the STSC settler core – were within allowable Fuel – Special Packaging Authorization (F-SPA) transportation restrictions. AFS also submitted the first draft of the thermal and gas generation analysis for the transport of the K West container sludge in the STS, which concludes that payload will remain stable during the assumed transport period and the pressure and heat buildup within the STS Cask are within the design limits; and the final Revision 1 of the K East Sludge Thermal and Gas Analysis, which showed that the proposed IP-2 cover contributes very little to the overall thermal and gas conditions and that the transport of the K East payload does not challenge either the thermal or pressure limits of the STS Cask.

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

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

#### **ARRA**

Work is nearing completion on a “middle-ware” utility to provide an accessible, user friendly and comprehensive interface for waste inventory, forecast, and reporting data. Mixed/Low Level Waste (MLLW): M-91-42 /435.1– shipped 21 cubic meters (m<sup>3</sup>) to processing, (1,172 m<sup>3</sup> total under ARRA) and completed 35 m<sup>3</sup> during the month (1,039 m<sup>3</sup> total under ARRA); M-91-43 – shipped 152 m<sup>3</sup> to

processing (386 m<sup>3</sup> total under ARRA) and completed 10 m<sup>3</sup> during the month (141 m<sup>3</sup> total under ARRA).

Transuranic (TRU) Retrieval removed 157 m<sup>3</sup> of contact handled (CH) TRU waste from the trenches and shipped 124 m<sup>3</sup> of CH TRU waste and 36 m<sup>3</sup> of Remote Handled (RH) TRU waste to a Treatment, Storage, and Disposal facility. Next Generation Retrieval (NGR) removed 253 drums (52.6 m<sup>3</sup>); completed assay of 201 drums (Gamma Assay), one drum (Passive/ Active Neutron [PAN] Assay System), vented 11 TRU drums, and x-rayed two drums in the Real-Time-Radiography (RTR) System. TRU Project completed the Key Performance Parameter (KPP) to repackage 850 m<sup>3</sup> of TRU Waste and completed the field work for Tri-Party Agreement (TPA) milestone M-91-40G, Complete Offsite Shipment of 1,000 Cubic Meters of Small container CH Transuranic mixed (TRUM). TRU Repackaging completed repackaging of 78 m<sup>3</sup> of TRU waste during the month and TRU Disposition completed 14 TRU-PACT II shipments to the Waste Isolation Pilot Plant (WIPP).

### **Base**

The W&FMP continued maintaining facilities in a safe and compliant condition; Canister Storage Building (CSB) completed annual heating, ventilation and air conditioning (HVAC) air handler maintenance in the operations area.

The Central Waste Complex (CWC) completed 23 on-site shipments/transfers, 649 containers; and received 43 shipments/transfers, 381 containers.

Liquid Effluent Facilities sent 1.9M gallons of treated effluent to the state-approved land disposal site and continued with Basin 43 Processing Campaign (processed 1.9M gallons).

### **RL-0030 Soil, Groundwater and Vadose Zone Remediation**

#### **ARRA**

Progress through the end of the fiscal month May is summarized in the table below.

Activity	May		Cumulative	
	Planned	Completed	Planned	Completed
Well Drilling (number of wells) -303	0	3	303	303
Well Decommissioning (# of wells) -280	10	24	231	245
100 DX Packaging and Transportation (P&T) – Construction/Startup (percent)	-	-	100	100
200 West P&T – Final Design (percent)	-	-	100	100
200 West P&T – Construction (percent)	8	11	63	71
200 West P&T – Testing/Startup (percent)	7	7	59	65

### **Base**

Base work included pump-and-treat operations, Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remedial processes, and documentation for the River Corridor and Central Plateau. Sampling and groundwater treatment completed in May includes the following:

- 203 well locations were sampled with a total of 893 samples being collected
- 38 aquifer tube samples collected from 14 tubes at 9 locations
- 14.9M gallons groundwater treated by ZP-1 treatment facility
- 21.8M gallons groundwater treated by KX treatment facility

- 8.4M gallons groundwater treated by KW treatment facility
- 5.8M gallons groundwater treated by KR-4 treatment facility
- 0.6M gallons groundwater treated by HR-3 treatment facility; this facility was shut down in May, and it is being replaced by the HX system.
- 0.0M gallons groundwater treated by DR-5 treatment facility. The DR-5 system was replaced by the DX system.
- 14.4M gallons groundwater treated by DX treatment facility
- 65.95M gallons of groundwater treated total

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

#### **ARRA**

Completed grouting of the 221U Canyon facility voids in the north electrical and piping gallery. Efforts continued in preparation for grouting activities in the remaining areas of the facility. Material has been staged and preparations are underway for construction of the structural grout bulkheads for the rail tunnel. Completed inspection of the Cell 30 Tank D-10 process vessel and continued preparations for vessel retrieval. Began transportation container weight recertification and resolution of lifting lug welding modification.

The 209E facility completed the removal of HO-160 and began cutting tank 104. Completed Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) implementation document changes.

Continued with demolition and load-out activities of 284E Power House Continued abatement activities in 284W Power House. Completed demolition activities of 284W Crusher House and Conveyor.

Cleanup of 106 North Slope debris pile sites continued; began decommissioning North Slope wells.

The lift and haul contractor has mobilized and the two locomotives have been transported and off loaded at the B Reactor. The shipment of the flatcar to the Environmental Restoration Disposal Facility (ERDF) is complete. Preparation (fixing, draining/solidification of the water) of the 8,000 gallon tank car is complete. The Shipping Evaluation Checklist (SEC) for the 8,000 gallon tanker was approved by RL. The tiedown calculations for the tankers are being finalized. The double shell tank car is being finalized for disposition. Three of the cask cars are prepped and ready for shipment to ERDF.

Remediation activities continued in the Outer Zone at BC Control area and Model Group (MG)-1 waste sites. BC Control Area removed approximately 38,500 tons of soil from the stockpile in May.

#### **Base**

Planned surveillance and maintenance (S&M) activities continue. Continued initial beryllium characterization sampling at REDOX, 231Z, and 222T.

### **RL-0041 Nuclear Facility D&D, River Corridor**

#### **ARRA**

##### **Facilities**

Completed demolition load-out on the 105KE Reactor above-grade demolition of the west annex

Completed preparations to demolish the 110KW Gas Storage Facility

Continued project closeout on the 105KE Reactor Core Removal Project Final Design

Continued characterization of the 181KE River Pump House/1605KE Guard House

Completed sampling plan in 183.4KW Clear Well to determine if floor can be left behind

Continued demolition of the 183.4KE Clear Well

Continued asbestos removal preparations in the 190KE and 190KW Main Pump Houses and 165KE Power Control Building

### Waste Sites

A briefing on direct push technology (DPT) and borehole sampling options to provide additional contamination characterization at the east and west sides of the former discharge chute and the fuel storage basin was provided to RL in mid-May. Following this briefing, determined that ten additional DPTs and eight borehole samples would be conducted. These additional characterization activities will be performed in June and July.

The final recommendations document for 100-K-63 is on hold pending the outcome of the selenium leach study and report. This study is needed to determine the protectiveness of the river and to support closure of the waste. The leach sample results and a site specific  $K_d$  value will be addressed in a report. Sample results were received on May 12, 2011 however results are inconsistent and  $K_d$  calculations are not possible with the current data. Further discussion on the leach test and laboratory issues will need to occur in order to determine a path forward.

The Memorandum of Agreement (MOA) for the 100K Area flood plain Waste Site 100-K-64 continues to be supported by CHPRC as RL works to finalize the wording contained in these agreements.

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

Active Excavation on ARRA Waste Sites and Sub-Grade Structures	May 2011	
	Tons	Containers
117KE	22	1
100-K-53	3,808	181
100-K-56	119	8
116-KE-1	2,854	126
<b>Monthly Total</b>	<b>6,803</b>	<b>316</b>
<b>Previous Cumulative (all sites under ARRA)</b>	<b>120,623</b>	<b>6,637</b>
<b>ARRA Cumulative (fiscal year [FY]2009 to Date)</b>	<b>127,426</b>	<b>6,953</b>

### Other

The 105KW Basin heating, ventilation, and air conditioning project equipment is in operation and performing as anticipated.

The 100K Electrical Power Project is finalizing punch-list activities necessary to complete the transition from the existing A-7 yard to the new A-9 yard/substation. Transfer of electrical loads from A-7 substation to the new A-9 yard/substation is being coordinated with Mission Support Alliance, LLC (MSA) Electrical Utilities for early June.

The 100K Water Project placed the potable water system into sustained operations and continued to work punch-list items. The construction contractor was de-mobilized from the site.

### Base

#### Facilities

Continued 105KE Reactor Engineering/Planning activities for the design and construction of the Reactor Building Safe Storage Enclosure (SSE) to place it in interim safe storage (ISS)

Continued below-grade demolition of the 1706KE Radiation Control Counting Laboratory and 1706KER Water Studies Recirculation Building

Started above-grade demolition of the 183.2KE Sedimentation Basin Continued demolition and electrical work packages for 115KW Gas Recirculation Building

### Waste Sites

Continued waste site remediation of the below listed RTD sites:

Active Excavation on Base Waste Sites and Sub-Grade Structures	May 2011	
	Tons	Containers
100-K-42	2,422	139
100-K-47	528	24
120-KW-1	8,808	402
100-K-109	423	20
105-KE Admin	1,237	65
116-KE-3	1,414	62
1706-KER	5,147	255
<b>Monthly Total</b>	<b>19,979</b>	<b>967</b>
<b>Previous Cumulative (all sites under Base)</b>	<b>231,846</b>	<b>11,787</b>
<b>Base Cumulative (FY2009 to Date)</b>	<b>251,825</b>	<b>12,754</b>

## KEY ACCOMPLISHMENTS

Refer to Sections A through G of this report for additional project accomplishments.

### RL-0011 Nuclear Materials Stabilization and Disposition

- Completed all required actions and formally declared the 2736ZB facility operationally clean
- In RMA Line Room 235A-1, the team completed Aspigel® chemical decontamination on four gloveboxes and applied fixative to the interior of the gloveboxes.
- A D&D Team has commenced Bulk Area Cleanup activities for the lab. This involves removal of miscellaneous equipment and piping, which will prepare the lab area for demolition.
- Eight deactivated gloveboxes (179-2, 3, 4, 6, 9, 10, 11, 12), were removed from Room 179 and loaded in waste transport containers in preparation for disposition.
- Size reduction of gloveboxes WT-4 and WT-5 is 100% percent complete and waste packaging and load out is 100% percent complete.

### RL-0012 Spent Nuclear Fuel Stabilization and Disposition

- KBC-48586, *MCO Loading Plan for Found Fuel (OCRWM)*, was approved and released by the Office of Civilian Radioactive Waste Management (OCRWM). The document describes the planned loading of the final two multi-canister overpacks (MCOs) to be used to remove remaining fuel scrap from the K West Basins and found fuel sent to K West from Washington Closure Hanford (WCH).
- PNNL conducted a series of tests on SCS-CON-220 (K West floor and pit sludge) samples to simulate the retrieval and settling (with flocculent) process. The test apparatus includes small scale recirculation loops similar to those in the STP ECRTS system for loading sludge into STSCs.



**RL-0013 Waste and Fuels Management Project****ARRA**

- MLLW: M-91-42 /435.1– shipped 1,558 m<sup>3</sup> and completed 1,180 m<sup>3</sup> to date
- Removed 157 m<sup>3</sup> of CH-TRU waste from the trenches
- Shipped 124 m<sup>3</sup> of retrievably stored CH-TRU waste and 36 m<sup>3</sup> RH-TRU waste to a Treatment, Storage and Disposal Facility
- Next Generation Retrieval (NGR) removed 253 drums (52.6 m<sup>3</sup>)
- Completed the Key Performance Parameter (KPP) to repackage 850 m<sup>3</sup> of TRU Waste
  - Completed repackaging of 78 m<sup>3</sup> of TRU waste
- Completed the field work for Tri-Party Agreement (TPA) milestone M-91-40G, Complete Offsite Shipment of 1,000 Cubic Meters of Small container CH Transuranic mixed (TRUM).
  - Completed 14 TRU-PACT II shipments to WIPP

**Base**

- The CWC completed 23 on-site shipments/transfers, 649 containers; and received 43 shipments/transfers, 381 containers.
- Liquid Effluent Facilities sent 1.9M gallons of treated effluent to the state-approved land disposal site and continued with Basin 43 Processing Campaign (processed 1.9M gallons).

**RL-0030 Soil and Groundwater Remediation**

Activity	May		Cumulative	
	Planned	Completed	Planned	Completed
Well Drilling (number of wells) -303	0	3	303	303
Well Decommissioning (# of wells) -280	10	24	231	245
100 DX Packaging and Transportation (P&T) – Construction/Startup (percent)	-	-	100	100
200 West P&T – Final Design (percent)	-	-	100	100
200 West P&T – Construction (percent)	8	11	63	71
200 West P&T – Testing/Startup (percent)	7	7	59	65

**Base**

- 65.95M gallons of groundwater treated total

**Environmental Strategic Planning:**

- Delivered the Central Plateau Ecological Risk Assessment Data Package Report and Tier 1 Ecological Preliminary Remediation Goal (PRG) Report to RL

**200-BP-5 Operable Unit – Base**

- Completed the final design package for the 200-BP-5 Treatability Test extraction system
- Installation of the water leveling monitoring system in existing wells was completed and the baseline water level monitoring is initiated in support of the 200-BP-5 Treatability Test.

**Deep Vadose Zone - Base**

- The Desiccation Test is now 85 percent complete. All responses to date indicate the process is working as anticipated.

**100-HR-3 Operable Unit - Base**

- The HR-3 system was removed from service to transfer extraction wells to the new HX system.

**RL-0040 Nuclear Facility D&D, Remainder of Hanford****ARRA – U Plant/Other D&D**

- U Canyon Demolition and Cell 30 Disposition
  - Completed grouting of the 221U Canyon facility voids in the north electrical and piping galleries
  - Completed inspection of the Cell Tank D-10 process vessel and continued preparations for vessel retrieval. Began transportation container weight recertification and resolution of lifting lug welding modification.

**ARRA – OUTER ZONE D&D**

- BC Controlled Area (BCCA) Waste Site Remediation
  - Continued removal of soil from the stockpile using super dump trucks with approximately 438,500 tons cumulative-to-date of soil removed from BCCA and transferred to ERDF
  - Continued radiological Multi-Agency Radiation and Site Investigation Manual (MARSIM) downpost surveys with localized spot removal. Approximately 55% of the MARSIM downpost zones have been completed.

**RL-0041 Nuclear Facility D&D, River Corridor****ARRA****Facilities**

- Work was completed on the 105KE Reactor Building Disposition Site Preparation/Phase I Demolition – ISS above-grade demolition of the West Annex.
- Continued characterization of the 181KE River Pump House. The 165KE Power Control Building demolition planning continued; asbestos removal activities commenced.
- Completed deactivation of the 183.1KE Head House. Completed asbestos removal and above-grade demolition. Began removal of below-grade tanks/equipment in preparation for below-grade demolition, which will be self-performed.

**Base****Waste Sites**

Remaining Site Verification Plans for waste sites 118-KE-2 and 118-KW-2 were sent to RL and the U.S. Environmental Protection Agency for their review and comment.

## MAJOR ISSUES

### RL-0011 Nuclear Materials Stabilization and Disposition

**Issue** – Radiological Controls Performance (people, process, procedures) is less than adequate.

**Corrective Actions** – Multiple actions in-progress to bolster while strengthening the overall program:

- Vacancies filled, additional staff added, significant support from CHPRC Central Radiological Controls
- Expectations set, controls established, programmatic compliance ensured.

**Issue** – Jurisdictional Decisions

**Corrective Actions** – Working with HAMTC to convey impacts and discuss implementation.

**Issue** – Workforce distractions due to Work Force Restructuring, Salary Freeze, and lack of an employee incentive program.

**Corrective Actions** – Training management and HAMTC Union Stewards on “Coping with Change.” Developing a Company sponsored incentive program.

### RL-0013 Waste and Fuels Management Project

**Issue** – Avoid falling behind recovery plan to retrieve 2,500 m<sup>3</sup> by September 30, 2011.

**Corrective Action** – Implement recovery plan: Work in multiple trenches to improve flexibility and mitigate impacts from weather and container conditions, deploy resources from completed KPP scope to supplement Retrieval crews (Repackaging NCOs and Ground Water HPTs reassigned), use alternate retrieval feed locations, initiate multiple summer shifts (6/13/11) to maximize daylight hours and mitigate heat impacts, closely coordinate shipments with MLLW and PFP to maximize ability for all projects to meet goals

**Status** – Corrective actions implemented and in progress. Performance Measurement Baseline and Performance Based Incentive milestones risk being mitigated.

**Issue** – TRUPACT II drum feed exhausted by July 2011; U. S. Environmental Protection Agency (EPA) approval to CCP to ship solid waste boxes required by July/August 2011.

**Corrective Action** – EPA Tier 1 approval by July 2011; Evaluating additional drum feed as contingency

**Status** – CCP has submitted Corrective Action Report (CAR) to CBFO for closure. CBFO to submit final re-certification report to New Mexico Environmental Department (NMED) in June

**Issue** – Competing special nuclear material (SNM) and Am-241 possession limits at PFNW will restrict some TRUM shipments to PFNW during FY2011

**Corrective Action** – Establish a priority for waste shipment to PFNW based on Performance Indicator (PI) objectives; Actively work with PFNW to reduce turn-around time for waste residing at PFNW; PFNW to determine alternatives that would reduce the overall SNM/Am-241 inventories at PFNW

**Status** – Priorities established, additional Waste Management Representative assistance provided to PFNW to aid in reducing turn-around time; and the majority of the MLLW dropout drum shipments from 12B and 4B have been shifted to late summer time frame.

### RL-0030 Soil and Groundwater Remediation

**Issue:** The 200W Pump-and-Treat Project is currently forecasting a negative Variance at Completion for RL0030-R1.1 ARRA subproject due to increased ARRA contingent scope and the baseline does not fully account for the corresponding budgeted cost of work scheduled (BCWS).

**Corrective Action:** The ARRA contingent scope was transferred from the R1.1 to R1.2 subproject in May and BCWS incorporated into R1.2 for the increased scope.

**Status:** This issue has been resolved, this is the last report.

**Issue** – During routine groundwater sampling activities, a nuclear chemical operator sampler received a low voltage shock while operating a dedicated electrical well pump. The subsequent investigation determined the network of monitoring wells having dedicated electrical pumps did not meet the National Electrical Code (NEC) standard for grounding all exposed non-current carrying metallic parts that could become energized. A temporary grounding strap has been approved by the NEC authority and has been deployed to the field allowing sampling of some dedicated electric pumps. Sampling with non-electrical pumps and portable electrical pumps is continuing.

**Corrective Action** – The available pneumatic pumps deployed to the field were redeployed to most efficiently support near-term sampling needs. Wells requiring electrical pumps to support sampling activities will be properly grounded per NEC requirements. A temporary grounding strap has been approved for use on some monitoring wells with dedicated electric pumps. Grounding design for well heads has been completed.

**Status** – This issue has been resolved, this is the last report.

#### **RL-0041 Nuclear Facility D&D, River Corridor**

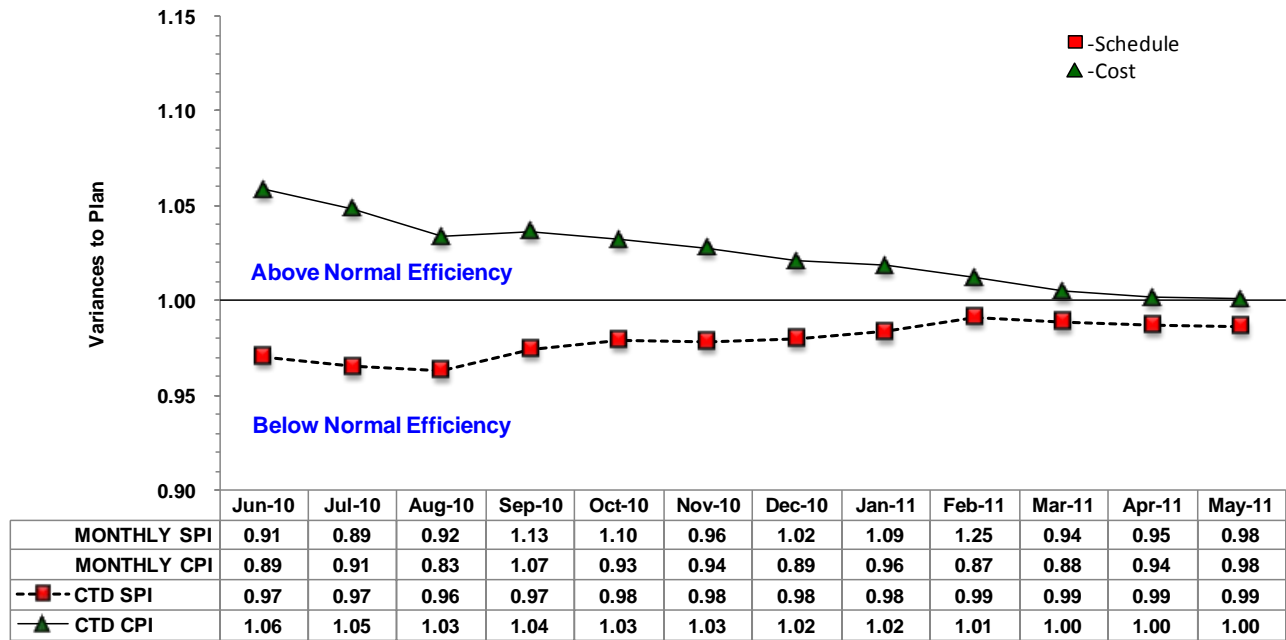
**Issue** – RL-41 Waste Site Remediation will not be able to complete the remediation work scope tied to ARRA funded waste site 100-K-57 by the end of September 30, 2011. The inability to complete this work by the end of the ARRA period, and quite possibly by the scheduled Tri-Party Agreement due date of December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

**Corrective Action** – The risk status did not improve over the past month as the process for a MOA that RL has sent to the State Historic Preservation Officer for their review, comment, and approval has not progressed. It is not expected that the MOA will be approved in the near future. When the MOA is approved, CHPRC will be able to resume controlled remediation activities in the 100-K-57 waste site. Completing remediation of this site under ARRA funds by the end FY2011 is not likely and it is too early to tell if remediation can be accomplished by December 31, 2012, putting the associated TPA milestone (M-016-53; due December 31, 2012) at risk.

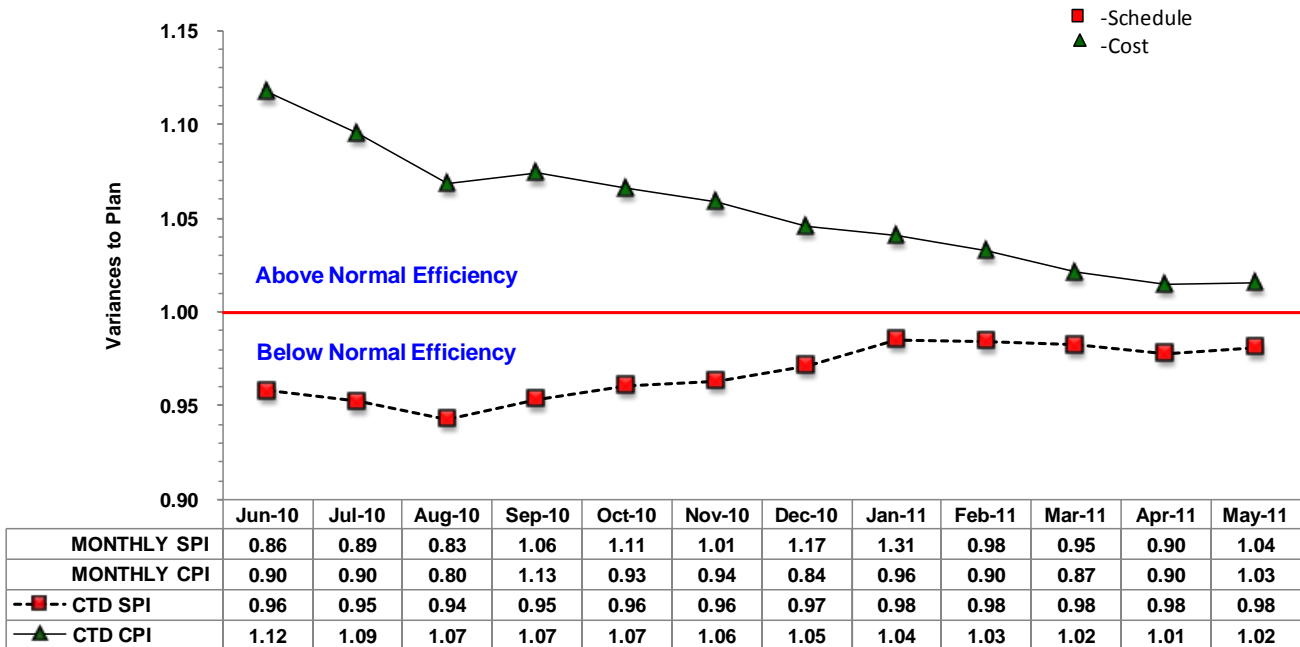
**Status** – This issue continues to be addressed by RL and CHPRC senior management.

## EARNED VALUE MANAGEMENT

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



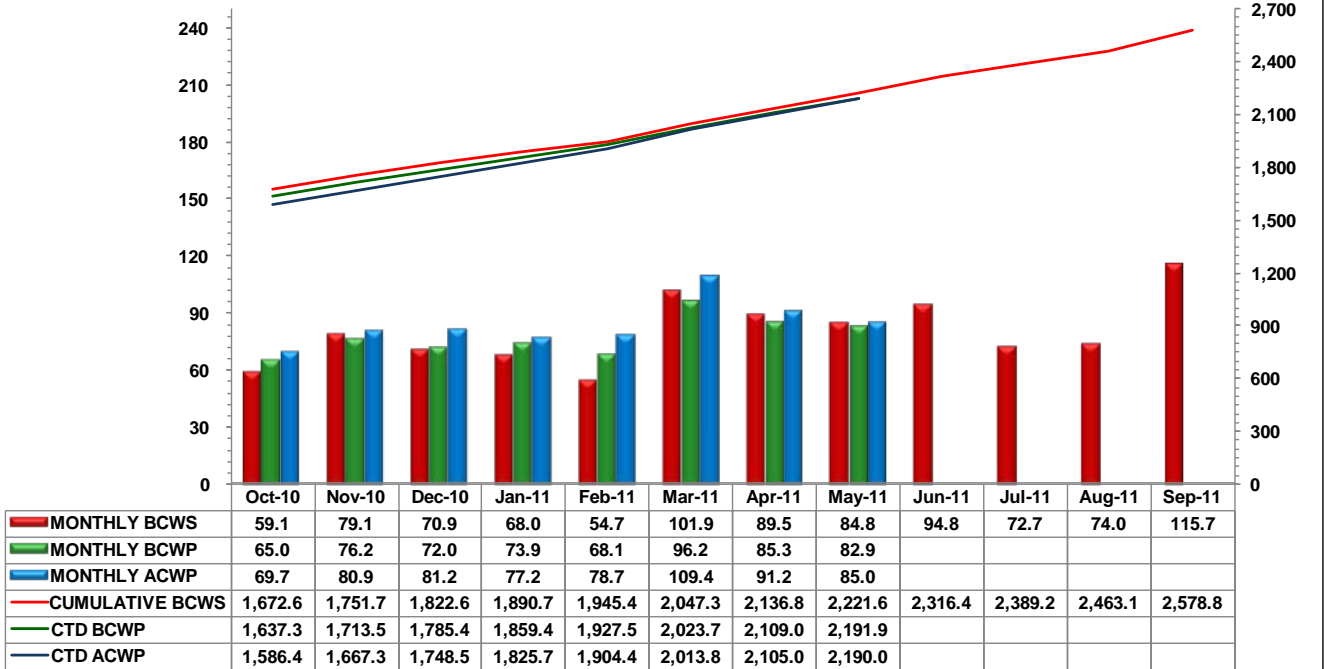
### Schedule and Cost Performance - ARRA (Rolling 12 Month View)





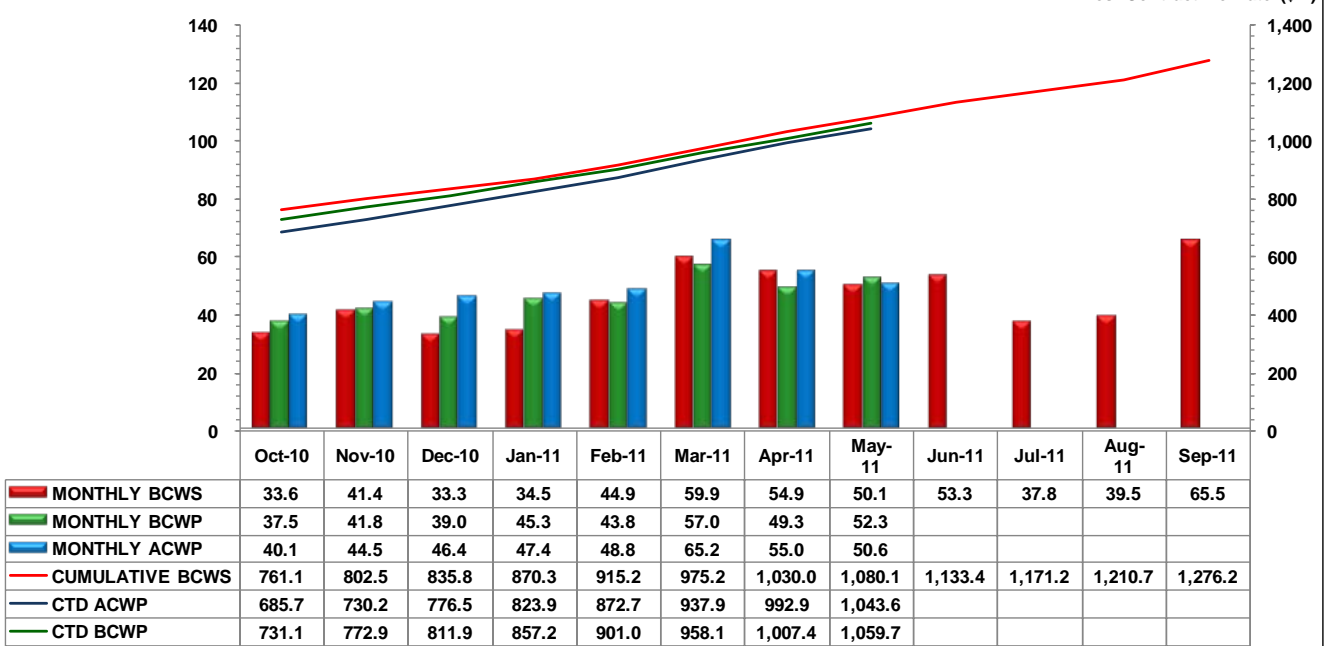
### Schedule and Cost Performance - ARRA and Base

Bars: Current Month (\$M) Lines: Contract To Date (\$M)



### Schedule and Cost Performance - ARRA

Bars: Current Month (\$M) Lines: Contract To Date (\$M)



## Performance Analysis – May

### ARRA Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - PFP D&D	10.7	8.5	10.8	(2.2)	(2.2)
RL-0013 - MLLW Treatment	1.1	1.5	1.6	0.4	(0.1)
RL-0013 - TRU Waste	9.1	9.5	9.5	0.4	0.0
RL-0030 - GW Capital Asset	11.5	17.6	13.3	6.1	4.3
RL-0030 - GW Operations	1.8	2.0	2.1	0.1	(0.1)
RL-0040 - U Plant/Other D&D	5.6	5.2	6.0	(0.4)	(0.8)
RL-0040 - Outer Zone D&D	3.8	3.7	3.8	(0.0)	(0.1)
RL-0041 - 100K Area Remediation	6.5	4.2	3.5	(2.3)	0.7
<b>Total</b>	<b>50.1</b>	<b>52.3</b>	<b>50.6</b>	<b>2.2</b>	<b>1.6</b>

#### ARRA

The Current Month favorable Schedule Variance: (+\$2.2M/+4.4%) reflects:

- The RL-0011 negative variance (-\$2.2M) is due to the following:
  - Current month negative variance is a result of delays in completing D&D of 234-5Z process and lab areas, which has been impacted by work package development delays, resource demand for electrical isolations and more complex glovebox removal. Resources have been reassigned to focus on higher priority KPP glovebox removal work scope and as a result, planned D&D work in 242Z, balance of 234-5Z, ancillary buildings and facility modifications has been deferred. The 234-5Z process area electrical isolations are on the critical path for completion of KPP, which has been extended to December 31, 2011.
- The RL-0013 positive variance (+\$0.8M) reflects the following subproject performance:
  - RL-0013 TRU Waste (+\$0.4M): The positive variance is within threshold. Schedule recovery for M-91-43 waste shipments and for Large Type A waste container shipments to PFNW; partially offset by delay in M-91-42 feed from TRU Retrieval and 435.1 waste processing achieved in prior period.
  - RL-0013 MLLW Treatment (+\$0.4M): The positive variance is within threshold. Schedule recovery for TRU Retrieval work planned in prior periods, coupled with completion of required functionality for planned remote controlled unit (robot), schedule recovery for prior period T-Plant Repack activities, partially offset by delayed TRUPACT II shipping due to unavailability of certified feed, RH/Large Package Commercial Repack adjustment for overstatement of performance in prior month, T-Plant 90 Mil Rigid Liner venting delayed by required equipment maintenance, weather, and adjustment to reflect re-venting activities, WRAP Repack delayed due to 2404WB spill recovery activities.

- The RL-0030 positive variance (+\$6.2M) that exceed the reporting thresholds reflect the following subproject performance:
  - ARRA RL-0030.R1.1 GW Capital Asset (+\$6.1M): 200-ZP-1 OU positive schedule variance is due to realignment of subcontractor's schedule ensuring performance is claimed upon receipt of material procurements.
  - ARRA RL-0030-R.1.2 GW Operations (+\$0.1M) positive variance is within reporting thresholds.
- Primary contributors to the RL-0040 negative variance (-\$0.4M) is within reporting thresholds, reflected upon the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.4M) negative variance is within reporting thresholds.
  - ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.0M) negative variance is within reporting thresholds.
- The RL-0041 negative variance (-\$2.3M) is due to the following:
  - Waste Sites (-\$1.5M) The negative variance is due to performance taken ahead of schedule in prior months and delays due to the 100K Utilities re-route (May) and cultural resource issues in the 100-K-64 flood plain. 100-K-53 has experienced a greater than planned extent of contamination. Contract direction shifting 100-K-53, 10-K-57 and 116-KE-2 from ARRA to Base funding was received May 26, 2011. A BCR is to be processed in June.
  - 100K Area Project (Facilities and Others) (-\$0.8M): The negative variance is due to continuing delays with the Utilities Upgrades, which is affecting the demolition of facilities; offset by current month completion of the FY2010 CENRTC and General Site Cleanup.

The Current Month favorable Cost Variance (+\$1.6M/+3.1%) reflects:

- The RL-0011 negative variance (-\$2.2M) is due to the following:
  - Current month unfavorable cost variance is primarily a result of inefficiencies associated with 234-5Z process area D&D teams providing support for electrical isolations, the lack of work packages has limited progress while still incurring the cost of the full team. In addition, to recover schedule, another team has being assigned to support future work in Room 227. Higher cost has also resulted from more complex glovebox removal in Labs, additional resources required to bring the Z/ZB complex to a Cold and Dark status and higher use of MSA brokered craft to support D&D.
- The primary contributors to the RL-0013 negative variance (-\$0.1M) is within reporting thresholds, reflected upon the following subproject performance:
  - RL-0013 TRU Waste (-\$0.0M): The negative variance is within reporting thresholds.
  - RL-0013 MLLW Treatment (-\$0.1M): The negative variance is within reporting threshold.
- The RL-0030 positive variance (+\$4.2M) that exceed the reporting thresholds reflect the following subproject performance:
  - ARRA RL-0030.R1.1 GW Capital Asset (+\$4.3M): 200-ZP-1 OU positive cost variance is the result of BCWP claimed in the current period that was expensed in previous months. The contractor's schedule has been realigned to ensure performance is claimed upon receipt of material procurements.
  - ARRA RL-0030-R.1.2 GW Operations (-\$0.1M) negative variance is due to:

- 200-ZP-1 OU cost correction that was completed in May for BCWP claimed in a previous month.
- The RL-0040 negative variance (-\$0.9M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.8M): The unfavorable cost variance is largely due to the U Canyon (-\$0.5M) additional core drills being required and additional overtime being worked to recover schedule. In addition, higher costs for the month for the 209E Project (-\$0.5M) were incurred due to costs associated with inventory reduction activities. Also, minor accounts that are within the threshold (+\$0.2M).
  - ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.1M): The negative variance is within threshold.
- The RL-0041 positive variance (+\$0.7M) is due to the following:
  - Waste Sites (-\$0.2M): The negative variance is from 100-K-53 experiencing greater than anticipated extent of contamination. RL has been notified, contract direction was received and a BCR will be processed in June shifting 100-K-53 from ARRA to Base funding.
  - 100K Area Project Facilities and Others (+\$0.9M): The positive variance is due to an accrual reversal for 105KW Deactivation, taking full performance for the General Site Cleanup activity but the costs were incurred in FY2010 and overruns in the Assessment accounts.

## Base Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - Nuclear Materials Stab & Disp PFP	2.5	2.1	2.7	(0.4)	(0.6)
RL-0012 - SNF Stabilization & Disposition	5.0	5.0	6.1	0.0	(1.0)
RL-0013 - Solid Waste Stab & Disposition	5.9	5.7	7.1	(0.2)	(1.4)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	14.6	13.1	13.9	(1.5)	(0.8)
RL-0040 - Nuc Fac D&D - Remainder	1.4	1.3	1.2	(0.1)	0.0
RL-0041 - Nuc Fac D&D - RC Closure Project	5.3	3.3	3.3	(2.0)	0.0
RL-0042 - Nuc Fac D&D - FFTF Project	0.1	0.1	0.1	0.0	0.0
<b>Total</b>	<b>34.8</b>	<b>30.6</b>	<b>34.3</b>	<b>(4.2)</b>	<b>(3.8)</b>

## Base

The Current Month unfavorable Schedule Variance (-\$4.2M/-12.0%) reflects:

- The RL-0011 negative variance (-\$0.4M) is within reporting thresholds.
- The RL-0012 positive variance (+\$0.0M) combined STP and 100K current month schedule variances are within thresholds.
- The RL-0013 negative variance (-\$0.2M) is within reporting thresholds. The project is currently experiencing impacts associated with:
  - Delayed start to WESF K1/K3 Upgrades Definitive Design pending decision to move forward with final design; partially offset by accelerated Berm repair, which resulted in the negative variance.
- The RL-0030 negative variance (-\$1.5M) is primarily due to:
  - Drilling (-\$0.6M): The negative variance is due to the drilling of ZP-1 wells being delayed due to a broken 16" casing, shipment delays in receiving the under reamer tool for the 12" casing. A nesting of a protected bird species in the mast of one of the rigs. It is anticipated that some of the ZP-1 drilling will slip into FY2012.
  - 100 HR-3 Operable Unit (+\$0.4M): HX construction activities for Procure/Install Equipment, Distribution of Electricity and Piping and Transfer Building Construction are being performed ahead of schedule to support the completion of construction activities and acceptance testing by September 2011. Project is currently forecast to complete ahead of baseline schedule.
  - 200-UP-1 Operable Unit (-\$0.3M): The negative variance is primarily associated with progress taken from the S-SX subcontractor. The S-SX work scope has increased based on the 100% design as compared to the 60% design that was originally baselined. Performance was taken based on the work scope identified by the 100% design and has resulted in a current month negative schedule variance. RL has provided an increased NTE (not to exceed) value of \$5.2M for this work scope. A BCR will be processed to increase the BCWS by \$1.2M to align to the contract mod.



- 200-ZP-1 Operable Unit (-\$0.7M): BCWS for the sludge stabilization (lime) system that was planned in May was completed in earlier months, resulting in the current month negative schedule variance.
- The RL-0040 negative variance (-\$0.1M) is within reporting thresholds.
- The RL-0041 negative variance (-\$2.0M) is due to the following:
  - Waste Sites (-\$0.9M): The negative schedule variance is due to higher than expected levels of contamination at 100-K-42 preventing waste from being shipped and forcing a strategic pause and re-evaluation of the path forward for waste sites in the 105-KE fuel storage basin and from delays related to cultural resources in the flood plain. CHPRC continues to work with RL cultural resource specialists to expedite resolution of cultural resource issues.
  - 100K Area Project (Facilities and Others) (-\$1.1M) The negative variance is due to delays with the Utilities Upgrades which has delayed demolition of other 100K facilities.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$3.8M/-12.8%) reflects:

- The RL-0011 negative variance (-\$0.6M) is primarily due to:
  - Continued surveillance/monitoring and maintenance of vital systems required to support D&D, which were originally planned to be deactivated. Additional resources and overtime used to complete pencil tank size reduction activities in PRF, including tool and equipment problem resolution actions and fabrication/mockup activities to develop tools expected to improve efficiency, also contribute to the variance.
- The RL-0012 negative variance (-\$1.0M) is due to the following:
  - The negative variance was driven by the ECRTS Annex design subcontractor billings that are being incurred without BCWS that is awaiting action on a Baseline Change Request (BCR) approval; and increased costs in the KOP design and testing activities as the subproject nears completion of the final design and the qualification testing of the processing system continues. A BCR is scheduled to be implemented in the month of June, which will correct the ECRTS variance.
- The RL-0013 negative variance (-\$1.4M) is due to:
  - Increased assessments above plan, increased resources required for support of Transportation and Packaging activities, materials received but not installed, receipt of rotor for Thin Film Dryer Vessel caused a higher fluctuation in the level loaded costs, increased subcontractor costs for WESF Roof Upgrades and WRAP HEPA Filter waste disposal costs above plan.
- The RL-0030 negative variance (-\$0.8M) The primary contributors that exceed the reporting thresholds are as follows:
  - 200-UP-1 OU (-\$0.7M): The variance is primarily associated with progress taken from the S-SX subcontractor. The work scope has increased based on the 100% design as compared to the 60% design that was originally baselined. Performance was taken based on the work scope identified by the 100% design and has resulted in a current month negative cost variance. RL has provided an increased Not-To-Exceed (NTE) value of \$5.2M for this work scope. A BCR will be processed to increase the BCWS by \$1.2M to align to the contract mod.
  - 200-ZP-1 OU (-\$0.3M): The negative cost variance is due to an under-accrual in April for the Vapor Phase Granular Activated Carbon (VPGAC) procurement, the accrual was corrected in the current month resulting in the negative variance.

- 100-HR3 Operable Unit (+\$0.5M): Primary drivers for the positive variance is due to additional time and resources being spent on internal CERCLA (RI/FS) document development that will be recovered in the completed Draft A document. Alignment of wells from the DR-5 System to the DX System and corrective maintenance on the acid and Caustic lines, trouble shooting pH probe issues, HX design increase in level of support to construction due to schedule acceleration and complexities of the project and 100 HX outside work. Erection of buildings is being performed with less craft labor and construction materials than budgeted.
- PBS RL-0030 UBS, G&A and DD (-\$0.5M): The negative variance is discussed in Appendix C.
- The RL-0040, RL-0041 and RL-0042 positive variances (+\$0.0M) are within reporting thresholds.

## Performance Analysis – Contract to Date

### ARRA Performance by PBS (\$M)

	Contract to Date				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	223.0	217.3	218.8	(5.7)	(1.5)
RL-0013 - MLLW Treatment	42.2	38.4	36.8	(3.8)	1.6
RL-0013 - TRU Waste	194.6	192.7	195.9	(1.9)	(3.3)
RL-0030 - GW Capital Asset	136.6	142.5	147.8	5.9	(5.3)
RL-0030 - GW Operations	73.2	73.1	68.1	(0.0)	5.0
RL-0040 - U Plant/Other D&D	169.8	165.6	156.0	(4.2)	9.6
RL-0040 - Outer Zone D&D	79.4	74.4	64.0	(5.0)	10.3
RL-0041 - 100K Area Remediation	161.4	155.8	156.2	(5.6)	(0.4)
<b>Total</b>	<b>1,080.1</b>	<b>1,059.7</b>	<b>1,043.6</b>	<b>(20.4)</b>	<b>16.1</b>

### ARRA

The CTD unfavorable Schedule Variance (-\$20.4M/-1.9%) reflects:

- The RL-0011 negative variance (-\$5.7M) is within reporting thresholds.
- The RL-0013 negative variance (-\$5.7M) is due to the following subprojects:
  - RL-0013 MLLW Treatment (-\$3.8M): Mixed Low Level Waste shipments delayed due to receiving facility's inability to receive extra-large sized waste shipments pending permit/building modifications (permits now obtained and modifications are scheduled), coupled with delay in receipt of M-91-42 feed from TRU Retrieval and weather impacts.
  - RL-0013 TRU Waste (-\$1.9M) TRU Retrieval delays due to shipping authorization (now resolved) and adverse weather conditions, coupled with delayed close-out of Trench Face Processing System (TFPS) procurement due to on-going negotiations with vendor, delayed TRUPACT II shipping due to lack of WIPP conveyances and transportation equipment issues.
- The RL-0030 positive variance (+\$5.8M) is due to the following subproject performance:
  - RL-0030.R1.1 GW Capital Asset (+\$5.9M): The positive variance is the result of managing the primary contractor to an accelerated completion date.
  - RL-0030.R1.2 GW Operations (-\$0.0M): All variances are within reporting thresholds.
- The RL-0040 CTD negative variance (-\$9.2M) primary contributors that exceed the reporting thresholds are as follows:
  - RL-0040.R1.1 U Plant/Other D&D (-\$4.2M) negative variance is due to late award of the grout contract for U Canyon (-\$2.9M) and delays with the 200E Administration Buildings (-\$0.6M) due to bio-hazard and radiological control issues. Limited resources has also delayed 200W Administration Buildings (-\$0.6M). Also minor accounts outside the threshold (-\$0.1M).
  - RL-0040.R1.2 Outer Zone D&D (-\$5.0M): Negative variance is primarily due to delay of work on selected waste sites pending finalization of site priorities (-\$3.1M); delays with

cultural/ecological reviews on the North Slope (-\$0.6M) and disposition of the 212N Railcars (-\$1.2M) and minor accounts outside the threshold (-\$0.1M).

- The RL-0041 negative variance (-\$5.6M) is within reporting thresholds.

The CTD favorable cost variance (+\$16.1M/+1.5%) reflects:

- The RL-0011 positive variance (+\$1.5M) is within reporting thresholds.
- The RL-0013 negative variance (-\$1.7M) reflects the following subproject performance:
  - RL-0013 TRU Waste (-\$3.3M): Increased resources for TRU Retrieval deteriorated waste containers, coupled with increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCS), increased allocations for additional office space and other assessments as a result of increased Recovery Act expenditures, partially offset by efficiencies in TRU Characterization and Shipping, T-Plant and Waste Receiving and Processing (WRAP), delay in receipt of costs for RH/Large Package Commercial Repack and lower company level allocations.
  - RL-0013 MLLW Treatment (+\$1.6M) Mixed Low Level Waste costs below plan due to efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PFNW due to a waiver received from DOE-HQ, decreased operational costs at CWC, efficiencies in Large Type A waste container shipments to PFNW and in Mixed Waste Disposal Trenches Upgrades; partially offset by M-91-42 waste treatment costs above plan (more difficult waste types, e.g. reactive and thermal) and higher costs for Effluent Treatment Facility (ETF) Containment Berm repairs.
- The RL-0030 negative variance (-\$0.3M) is primarily due to these contributors:
  - RL-0030.R1.1 GW Capital Asset negative variance (-\$5.3M) can be attributed to the following:
    - 200-ZP-1 Operable Unit (-\$4.1M) The negative variance is due to increased costs associated with civil/site work and procurement/installation of prefabricated metal buildings impacted by design changes, changes to long lead procurements and project management costs associated with increased project scope.
    - 100 HR-3 Operable Unit (-\$0.8M): The negative variance for 100DX is the result of increased installation costs on the pH adjustment system, the impacts of weather on completing construction punch-list items and the Acceptance Test Plan for the facility/process.
  - RL-0030.R1.2 GW Operations positive variance (+\$5.0M) are attributed to the following:
    - Drilling (+\$2.5M): The positive variance is due to efficiencies and savings obtained in drilling for 100-NR-2 and 200-BP-5 wells. Cost efficiencies have been obtained through an aggressive drilling schedule with savings in support personnel and faster drilling methods. Well decommissionings have also been completed for less than planned.
    - 200-ZP-1 Operable Unit (+\$0.4M): Delayed cost transfers for the BCR implemented this month resulted in the positive cost variance, which will be corrected in the next period.
    - Regulatory Decision and Closure Integration (+\$1.7M): The positive variance is due to completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging) and borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support).

- Ramp-up & Transition – Trailers/Maintenance Facilities (-\$2.0M): The negative variance was driven by design corrections/clarifications that resulted in increased construction costs for the shop buildings.
- PBS RL-0030 UBS, G&A and DD (+\$2.1M): The positive cost variance is discussed in Appendix C.
- The RL-0040 positive variance (+\$19.9M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$9.6M) 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) (+\$3.7M), overhead allocations (+\$10.9M), less for Program Management than planned (+\$1.6M), less resources than planned for C-3 Sampling (+\$0.7M), lower than planned costs for capital equipment (D4) (+\$2.7M), less asbestos abatement required for 200W buildings (+\$3.7M), 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) (-\$8.1M), coupled with increased insulator staff and overtime to recover schedule and 200E Administration (-\$0.5M) and 209E Project delays (-\$1.7M), additional resources being applied at U Canyon (D4) to regain schedule (-\$0.8M), Usage Based Services (-\$2.8M). Minor accounts not within threshold (+\$0.2M).
  - ARRA RL-0040.R1.2 Outer Zone D&D (+\$10.3M) favorable cost variance is due to efficiencies in ALE and North Slope Facilities D&D (+\$5.0M) and Outer Area waste sites (+\$6.8M). The waste site favorable cost-to-date variance is primarily due to an O-Zone RTD Waste Sites adjustment (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project (-\$1.0M) due to the walls of the basins being much thicker than estimated. Minor accounts outside the threshold (-\$0.5M).
- The RL-0041 negative variance (-\$0.4M) is within reporting thresholds.



## Base Performance by PBS (\$M)

	Contract to Date				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - Nuclear Materials Stab & Disp PFP	145.0	144.4	144.8	(0.6)	(0.4)
RL-0012 - SNF Stabilization & Disposition	220.3	215.5	223.9	(4.8)	(8.4)
RL-0013 - Solid Waste Stab & Disposition	285.5	283.8	292.7	(1.7)	(8.9)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	357.8	359.1	366.0	1.3	(6.8)
RL-0040 - Nuc Fac D&D - Remainder	60.5	60.7	54.2	0.3	6.5
RL-0041 - Nuc Fac D&D - RC Closure Project	61.2	57.5	54.7	(3.8)	2.8
RL-0042 - Nuc Fac D&D - FFTF Project	11.1	11.1	10.1	0.0	1.0
<b>Total</b>	<b>1,141.5</b>	<b>1,132.2</b>	<b>1,146.4</b>	<b>(9.3)</b>	<b>(14.2)</b>

**Base**

The CTD unfavorable Schedule Variance (-\$9.3M/-0.8%) reflects:

- The RL-0011 negative variance (-\$0.6M) is within reporting thresholds.
- The RL-0012 negative variance (-\$4.8M) the combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$1.7M) is due to:
  - Delayed start to WESF K1/K3 Upgrades Definitive Design pending decision to move forward with final design, Canister Storage Building (CSB) engineering activities delayed due to resource availability (assigned to higher priority activities), delay in ETF upgrades to determine fire protection requirements (installation now in progress); partially offset by acceleration of WRAP HEPA filter replacement (scheduled for FY2013).
- The RL-0030 positive variance (+\$1.3M) is due to:
  - 100 HR-3 Operable Unit - HX construction activities for Procure/Install Equipment, Distribution of Electricity and Piping and Transfer Building Construction are being performed ahead of schedule to support the completion of construction activities and acceptance testing by September 2011. The project is currently forecast to complete ahead of baseline schedule.
- The RL-0040 positive variance (+\$0.3M) is within reporting thresholds.
- The RL-0041 negative variance (-\$3.8M) primary contributors that exceed the reporting thresholds are as follows:
  - Waste Sites (+\$3.5M) The positive variance is due to CSNA sites completed ahead of schedule and is partially offset by delays related to demolition of the 105-KE fuel storage basin discharge chute and the 100K utility upgrade project.
  - 100K Area Project (Facilities and Others) (-\$7.3M) The negative variance is due to deferring the electrical utilities upgrade for several months. This affected the demolition of several other facilities due to not being able to complete demolition until they were cold and dark.
- The RL-0042 positive variance (+\$0.0M) is within established reporting thresholds.

The CTD unfavorable Cost Variance (-\$14.2M/-1.3%) reflects:

- The RL-0011 negative variance (-\$0.4M) is within reporting thresholds.
- The RL-0012 negative variance (-\$8.4M): The combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$8.9M) is due to:
  - Increased assessments above plan, TRU Retrieval additional resources to deal with deteriorated containers and drum wedge issue, FY2009 WRAP facility increased levels of corrective and preventive maintenance activities as a result of repack operations, increased labor and subcontractor support for Transportation and Packaging; partially offset by efficiencies in LEF, MLLW, TRU Disposition, TRU Repackaging, Interim Storage Area upgrades, Mixed Waste Disposal Trenches (MWDT) and lower overhead allocations.
- The RL-0030 negative variance (-\$6.8M) primary contributors that exceed the reporting thresholds are as follows:
  - Integration & Assessments (+\$2.8M): Primary drivers for this positive variance include less subcontractor support required for Central Plateau strategy development and integration. Sample Management and Reporting has performed work scope more efficiently than planned, less cleanup document reviews were required than originally planned, requiring less contract support. Efficiencies/savings were realized in establishing document templates, reviewing procedures and software procurements.
  - 100-KR-4 OU (-\$2.3M): The negative cost variance has resulted from increased analytical cost and use of additional resources to expedite the remedial investigation sampling and the accompanying RI/FS report efforts. Additional risk assessment and modeling costs have been included in the forecast. The negative cost variance will continue through preparation of Draft A of the RI/FS report.
  - 100-NR-2 OU (+\$1.6M): Chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS Work Plan and Interim Proposed Plan Reporting were performed more efficiently than planned leading to the positive cost variance.
  - 100 HR-3 Operable Unit (-\$2.7M): Primary contributors to the negative cost variance are as follows:
    - 100 DX - extensive effort required to design the pH adjustment system, cost overruns in completing the OU Remedial Process Optimization studies.
    - 100 DX unplanned modifications on the system after completion of construction and higher than expected cost to complete acceptance test plan and the operational test plan
    - Cost of realigning wells from DR-5 to 100 DX
    - 100 HX Construction cable cost increased due to increases in copper prices
    - Additional time and resources being spent on internal CERCLA (RI/FS) document development that will be recovered in completed Draft A document
  - 200-UP-1 Operable Unit (-\$1.2M): The negative variance is primarily associated with progress taken with the S-SX subcontractor. The work scope has increased based on the 100% design as compared to the 60% design that was originally baselined. Performance was taken based on the work scope identified by the 100% design that has resulted in the negative cost variance. RL has provided an increased Not-To-Exceed (NTE) value of \$5.2M for this work scope. A BCR will be processed to increase the BCWS by \$1.2M to align to the contract mod.
  - 200-ZP-1 Operable Unit (+\$3.0M): Major contributors to the variance are as follows:
    - Interim Operations reflects significant progress and cost underruns achieved to date for 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
- 200W Pump-and-Treat Remedial Design/Remedial Action work plan and preliminary design activities were completed with fewer resources than planned
- o 200 PW-1 OU (+\$0.8M): Labor and subcontract cost for general operations and minor modifications support is less than planned. In addition, efficiencies and savings experienced with the Soil Vapor Extraction (SVE) system testing prior to March 2010 as well as the removal of two old SVE units.
- o Usage Based Services (-\$1.7M): Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.
- o PBS RL-0030 UBS, G&A and DD (-\$2.1M): The negative cost variance is discussed in Appendix C.
- The RL-0040 positive variance (+\$6.5M) is primarily due to:
  - o Balance of Site (facilities and others) (+\$6.5M) positive variance is associated with recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) less than expected (+\$1.5M), completion of the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$1.6M), capital equipment (+\$0.3M), Usage Base Services (+\$0.2M) and underrun in overhead allocations (+\$1.4M).
- The RL-0041 positive variance (+\$2.8M) cost variance is within established reporting thresholds. The project is currently experiencing impacts associated with:
  - o Waste Sites (+\$5.0M): The positive variance is due to failed confirmatory sampling no further action and RTD sites 100-K-55 Part 1 and 100-K-56 Part 2 which were completed ahead of schedule with less effort than originally planned, partially offset by negative variances related to greater than planned extent and severity of contamination in the 105KE fuel storage basin.
  - o 100K Area Project (Facilities and Others) (-\$2.2M): The negative variance is due to Structures (-\$3.3M) primarily in the 1706KE/KEL/KER complex completed in prior years and Project Management (-\$1.2M) due to FY2010 General Site Cleanup overruns. These are partially offset by 105KE Reactor (+\$1.4M) due to efficiencies in cold and dark/characterization and overhead allocations (+\$0.8M) which are discussed in Appendix C.
- The RL-0042 positive variance (+\$1.0M) reflects reduction in surveillance and maintenance requirements as the facility deactivation reached completion. Efficient use of resources to support deactivation activities with available time further aided in creating this favorable cost variance.

## FUNDING ANALYSIS

### FY2011 Funds vs. Spend Forecast (\$M)

PBS	Project	FY 2011		Variance
		Projected Funding	Spending Forecast	
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	163.1	155.5	7.6
<b>RL-0013</b>	Waste and Fuels Management Project	162.5	159.3	3.3
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	157.6	156.7	0.9
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	142.6	138.1	4.5
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	67.7	62.3	5.4
<b>Total ARRA:</b>		<b>693.6</b>	<b>671.8</b>	<b>21.8</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	41.7	36.9	4.8
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	80.7	80.5	0.2
<b>RL-0013</b>	Waste and Fuels Management Project	86.2	85.9	0.3
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	174.9	171.8	3.1
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	18.5	18.5	0.1
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	54.6	50.2	4.4
<b>RL-0042</b>	Fast Flux Test Facility Closure	2.4	2.0	0.4
<b>Total Base:</b>		<b>459.0</b>	<b>445.7</b>	<b>13.3</b>

#### Funds/Variance Analysis:

Funding includes FY2010 carryover and FY2011 new Budget Authority. "Projected Funding" for Base PBSs was changed in May, 2011 to reflect a reallocation among PBSs and a reduction of \$7.3 to align with the final FY 2011 Appropriations Act.

## BASELINE CHANGE REQUESTS

In May 2011, CHPRC approved and implemented six (6) baseline change requests, of which one (1) is administrative in nature and did not change budget, schedule or scope. The six change requests are briefly identified in the table below:

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

Change Request #	Title	Summary of Change
<b>Implemented into the Earned Value Management System for May 2011</b>		
BCR-030-11-013R0	<i>Deferral of STOMP Modeling and Aquifer Tube Data Evaluation</i>	The submittal of the Tech/Regulatory Basis Document has been identified in the performance measurement baseline (PMB) schedule to allow for proper earned value methodology in fiscal year (FY) 2011. The development of the Graded Approach document for the protection of groundwater in the Inner Area is considered low priority work scope and is now planned in FY 2013. This scope was captured in a PMB schedule activity called Subsurface Transport Over Multiple Phases (STOMP) and Modeling. The estimate is revised for the Development of the Graded Approach Document in FY 2013; this minor adjustment is to offset the escalation incurred as a result of the deferral. The Evaluation of Aquifer Tube Data is also deferred from FY 2011 to FY 2013. This scope is also considered low priority. No additional funding is required as a result of this change request and no management reserve is used.
BCR-041-11-003R0	<i>Correction to Earned Value Method on 100-K-64 Waste Site Activity</i>	The purpose of this change request is to correct the earned value method (EVM) on one activity in the performance measurement baseline (PMB). The scope of this activity is to develop a Change Proposal for Contract Modification 139, Change Order 111 related to Waste Site 100-K-64. This change request does not change the estimate. No additional funding is required as a result of this change request and no management reserve is used.
BCR-PRC-11-034R0	<i>FFTF and REDOX Roof Repairs</i>	This change request incorporates changes to the FFTF and REDOX performance measurement baseline (PMB) estimates by adding FFTF and REDOX roof repairs to the current minimum safe operating schedule for fiscal year (FY) 2011. The estimate for each roof repair is based on an Independent Cost Estimate by Fluor, the Project Manager and others who have experience with a similar type of work in the past. Based on past experience the assumption that actual cost of the work scheduled will be higher for the three roof repairs than the estimate received from the vendor, the estimate for total cost for each roof repair has been doubled. Additional time also has been built into the schedule to compensate for the higher cost and longer duration due to any weather related delays, such as rain or extreme heat. No additional funds are required as a result of this change request. Funds management is to be used to ensure the authorized FY 2011 Base funds for PBS RL-040 and PBS RL-042 are not exceeded. Management reserve is used in the amount noted in Section 21 of the change request for both the 202S REDOX and the FFTF roof repairs. There is no change to Key Performance Parameters as a result of this change request.
BCR-030-11-004R0	<i>200W Pump &amp; Treat Scope Addition</i>	The scope change to the 200W Pump & Treat Facility documented in this change request occurs in four specific areas as follows: (1) Heat Trace; (2) Business Information Modeling (BIM)/3D Modeling; (3) Additional Ductwork for Air Stripper Positioning; and, (4) Penetrating Sealant. No additional funds are required as a result of this change request. DOE-RL contingency (using previously identified ARRA contingent scope) is used to increase the budget for the balance of this change above the available management reserve. In change request BCR-PRC-11-020R0, "Align FY



Change Request #	Title	Summary of Change
		<p>2011 PMB Scope to Revised RL Priorities”, American Recovery &amp; Reinvestment Act (ARRA) contingent work scope was moved to Base to generate contingency funds for this change; therefore, available funds in ARRA are used to pay for the RL contingency. Funds management is also used, as appropriate, to ensure that the RL authorized FY 2011 funds for project baseline summary (PBS) RL-0030 are not exceeded for both Base and ARRA budget. Since the overall change is greater than \$5M, RL approval is required. ARRA Key Performance Parameter (KPP) metrics are not changed as a result of this change request.</p>
BCR-RCH-11-001R0	<p><i>Remove FY 2011 Budget for 222-S Laboratory Support</i></p>	<p>This change request removes the FY 2011 scope and budget for 222-S Laboratory support to CHPRC consistent with RL direction. There is no change to contract budget base; however, the performance measurement baseline (PMB) is adjusted. The scope of work is American Recovery &amp; Re-investment Act (ARRA) and occurs in project baseline summaries (PBSs) RL-11 and RL-40. There is no change to funds as a result of this change request, since the value of this scope was removed from the Estimate at Completion and, therefore, not included in the realigned funds. No management reserve is used, however the management reserve in PBSs RL-11 and 40 is increased in FY 2011 by the PMB budget value removed to maintain contract price. This change request also revises the Activity Description on Activity ID ZZ11.06.01.01.0235 to align with the number of days contractually allowed for DOE review of Safety Basis Changes, specifically from 45 days to 120 days.</p>
BCRA-PRC-11-035R0	<p><i>General Administrative Changes for May 2011</i></p>	<p>This change request adds a completion milestone for facility “1909KE Effluent Junction Box.” This milestone is needed to continue reconciling to the J-13 Hanford Site Structures List the CHPRC contract. Specifically, the 1909KE structure is listed in the current J13 List but change request BCR-PRC-11-010R0, “PMB Alignment to Contract Price Adjustment Request”, inadvertently deleted the facility milestone from the performance measurement baseline. Removal of the 105KE West Annex, which sat directly on top of the 1909KE junction box, removed the 1909KE junction box. Both of these work scopes completed last month, which is what led to discovering the 1909KE milestone had been accidentally removed. There is no budget associated with this scope, as the budget is part of baseline activity “100K D&amp;D East &amp; West Annexes”. In addition, this change request also modifies the title of Sludge Treatment Project activity ZZ12.16.02.19.0015, (PI-12-02.2R2), to the new performance incentive (PI) description, requested by RL, and moves the date to be consistent with the additional time required to complete this revised PI. Only the milestone is moved; there is no change to budget. Furthermore, this change request also incorporates <u>Additional detail if needed</u>: Description change to ZZ12.16.02.19.0015 (PI-12-02.2R2 – new description abbreviated in P6 due to character limitations):</p> <ul style="list-style-type: none"> <li>• Old Description: Conduct Proof of Principle testing at PNNL</li> <li>• New Description: Provide Report(s) documenting Proof-of-Principle Testing on selected technologies with project-approved stimulants.</li> </ul> <p><u>Baseline date change to activity ZZ12.16.02.19.0015 (PI-12-02.2R2):</u></p> <ul style="list-style-type: none"> <li>• Old Baseline Date: 06-Apr-11</li> <li>• New Baseline Date: 31-May-11</li> </ul>

Change Request #	Title	Summary of Change
		Also, this change request incorporates general administrative changes to the PRC Baseline. Changes include HPIC changes, control account manager change, schedule coding changes and other changes as identified. Multiple WBSs are affected. There is no change to scope, budget or management reserve. Changes can involve both ARRA and Base scope. There is no change to CEIS details as a result of this change request.

Overall the contract period performance measurement baseline (PMB) budget is increased \$7.5 million in May 2011. Management reserve is used in May 2011 in the amount of \$738.4K but is also generated in the amount of \$2,275.3K for an overall increase of \$1,536.9K. The management reserve used is a result of realized risks as identified in change request BCR-PRC-11-034R0, “FFTF and REDOX Roof Repairs” [\$459.3K Base in RL-0040 and \$279.1K Base in RL-0042]. Management reserve is generated from efficiencies achieved on 222-S Laboratory sample analyses in prior years as identified in change request BCR-RCH-11-001R0, “Remove FY 2011 Budget for 222-S Laboratory Support” [\$1,706.6K American Recovery & Reinvestment Act (ARRA) in RL-0011 and \$568.7K ARRA in RL-0040]. There is no adjustment to fee in May 2011. 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 May 2011, is an *increase* of \$9.0 million and is summarized by fiscal year in the tables below (dollars in thousands, negative number represents reduction):

**May 2011 Summary of Changes to Estimated Contract Price**

	FY2009	FY2010	FY2011	FY2012	FYs 2009-2013	FYs 2014-2018
<b>April 2011 Estimated Contract Price</b>						
PMB	653,426	960,017	1,015,778	709,121	3,903,247	2,375,396
Mgmt Rsrv (MR)	0	0	28,717	23,750	84,167	137,800
Fee	39,712	48,772	32,322	21,600	159,927	87,417
<b>Total</b>	<b>693,138</b>	<b>1,008,790</b>	<b>1,076,817</b>	<b>754,471</b>	<b>4,147,341</b>	<b>2,600,613</b>
<b>Change by Funding Source to Estimated Contract Price in May 2011 (6 BCRs)</b>						
<b>PMB</b>						
<b>ARRA</b>						
All ARRA WBSs	0.0	0	6,716	0	6,716	0
<b>Base</b>						
All Base WBSs	0	0	464	0	738	0
<b>Change to PMB</b>	<b>0</b>	<b>0</b>	<b>7,179</b>	<b>0</b>	<b>7,454</b>	<b>0</b>
<b>MR</b>						
<b>ARRA</b>						
All ARRA WBSs	0	0	2,275	0	2,275	0
<b>Base</b>						
All Base WBSs	0	0	-459	-139	-738	0
<b>Change to MR</b>	<b>0</b>	<b>0</b>	<b>1,816</b>	<b>-139</b>	<b>1,537</b>	<b>0</b>
<b>Fee</b>						
<b>ARRA</b>						
All ARRA WBSs	0	0	0	0	0	0
<b>Base</b>						
All Base WBSs	0	0	0	0	0	0
<b>Change to Fee</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Change</b>	<b>0</b>	<b>0</b>	<b>8,995</b>	<b>-139</b>	<b>8,991</b>	<b>0</b>
<b>May 2011 Estimated Contract Price</b>						
PMB	653,426	960,017	1,022,957	709,121	3,910,701	2,375,396
MR	0	0	30,533	23,611	85,704	137,800
Fee	39,712	48,772	32,322	21,600	159,927	87,417
<b>Total</b>	<b>693,138</b>	<b>1,008,790</b>	<b>1,085,812</b>	<b>754,332</b>	<b>4,156,332</b>	<b>2,600,613</b>

### Changes to/Utilization of Management Reserve in May 2011

		FY2009	FY2010	FY2011	FY2012	FY2009-2013	FY2014-2018
<b>Management Reserve (MR) - End of April 2011</b>							
<b>ARRA</b>	RL-0011.R1	0	0	4,894	0	4,894	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	1,000	0	1,000	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0
	RL-0040.R1.1	0	0	3,800	0	3,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	8,608	0	8,608	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>18,302</b>	<b>0</b>	<b>18,302</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	2,000	7,400	17,400	0
	RL-0012	0	0	3,000	3,000	10,500	16,800
	RL-0013	0	0	1,500	3,000	9,500	38,100
	RL-0030	0	0	0	2,650	7,050	32,000
	RL-0040	0	0	3,701	4,000	12,801	31,900
	RL-0041	0	0	214	3,500	8,214	18,000
	RL-0042	0	0	0	200	400	1,000
<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>10,415</b>	<b>23,750</b>	<b>65,865</b>	<b>137,800</b>	
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>28,717</b>	<b>23,750</b>	<b>84,167</b>	<b>137,800</b>	
<b>Changes to/Utilization of Management Reserve in May 2011</b>							
<b>ARRA</b>	RL-0011.R1	0	0	1,707	0	1,707	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	0	0	0	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0
	RL-0040.R1.1	0	0	569	0	569	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	0	0	0	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>2,275</b>	<b>0</b>	<b>2,275</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	0	0	0	0
	RL-0012	0	0	0	0	0	0
	RL-0013	0	0	0	0	0	0
	RL-0030	0	0	0	0	0	0
	RL-0040	0	0	-459	0	-459	0
	RL-0041	0	0	0	0	0	0
	RL-0042	0	0	0	-139	-279	0
<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>-459</b>	<b>-139</b>	<b>-738</b>	<b>0</b>	
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>1,816</b>	<b>-139</b>	<b>1,537</b>	<b>0</b>	
<b>Management Reserve - End of May 2011</b>							
<b>ARRA</b>	RL-0011.R1	0	0	6,601	0	6,601	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	0	1,000	0	1,000	0
	RL-0030.R1.1	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0
	RL-0040.R1.1	0	0	4,369	0	4,369	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	0	8,608	0	8,608	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>20,577</b>	<b>0</b>	<b>20,577</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	2,000	7,400	17,400	0
	RL-0012	0	0	3,000	3,000	10,500	16,800
	RL-0013	0	0	1,500	3,000	9,500	38,100
	RL-0030	0	0	0	2,650	7,050	32,000
	RL-0040	0	0	3,242	4,000	12,342	31,900
	RL-0041	0	0	214	3,500	8,214	18,000
	RL-0042	0	0	0	61	121	1,000
<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>9,956</b>	<b>23,611</b>	<b>65,127</b>	<b>137,800</b>	
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>30,533</b>	<b>23,611</b>	<b>85,704</b>	<b>137,800</b>	

### 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 5/31/2011								Planned Subcontracting*	\$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	\$1,710,425,991
Reporting Classification	ARRA		Non-ARRA		Total (\$)	Percent of Total	Goal (%)	Balance Remaining to Award =	\$814,057,204
	(\$)	%	(\$)	%				Goal Award (\$)	Bal. to Goal (\$)
SB	\$389,936,300	53.13%	\$449,474,752	46.03%	\$839,411,053	49.08%	49.30%	\$1,244,570,215	\$405,159,163
SDB	\$75,752,621	10.32%	\$75,784,154	7.76%	\$151,536,775	8.86%	8.20%	\$207,007,622	\$55,470,847
SWOB	\$85,932,278	11.71%	\$80,909,312	8.29%	\$166,841,590	9.75%	6.50%	\$164,091,408	(\$2,750,182)
HUB	\$17,247,166	2.35%	\$18,369,172	1.88%	\$35,616,337	2.08%	3.20%	\$80,783,462	\$45,167,125
VOSB	\$59,953,909	8.17%	\$35,897,858	3.68%	\$95,851,767	5.60%	2.00%	\$50,489,664	(\$45,362,103)
SDVO	\$12,943,295	1.76%	\$13,623,441	1.40%	\$26,566,736	1.55%	2.00%	\$50,489,664	\$23,922,927
NAB	\$13,256,081	1.81%	\$7,685,375	0.79%	\$20,941,456	1.22%	0.00%	*10-year subcontracting projection  PRC clause H.20 small business (SB) requirement: ≥17% of Total Contract Price performed by SB Total Contract Price: \$5,363,111,740 17% requirement: \$911,728,996 Awarded: \$839,411,053 Balance to Requirement: \$72,317,943	
Large	\$220,831,999	30.09%	\$291,916,506	29.89%	\$512,748,506	29.98%	0.00%		
GOVT	\$108,791	0.01%	\$1,196,779	0.12%	\$1,305,570	0.08%	0.00%		
GOVT CONT	\$122,980,255	16.76%	\$230,725,773	23.63%	\$353,706,027	20.68%	0.00%		
EDUC	\$8,519	0.00%	\$99,147	0.01%	\$107,666	0.01%	0.00%		
NONPROFIT	\$35,055	0.00%	\$2,952,005	0.30%	\$2,987,060	0.17%	0.00%		
FOREIGN	\$28,773	0.00%	\$127,960	0.01%	\$156,733	0.01%	0.00%		
Total	\$733,929,692		\$976,496,298		\$1,710,425,991				

Notes:

1. Performance through May 2011 continues to exceed goals in the Small Business, Disadvantaged Business, Woman Owned, and Veteran Owned categories and lag our goal for HUB zone and Service Disabled Veteran business awards. Forty-nine percent of total awards have been made to small businesses with approximately 53 percent of ARRA awards to small businesses.
2. ARRA-funded awards have accounted for approximately 43 percent of all actions placed since contract inception.
3. Approximately 93 percent of the total dollars arise from service and staffing Contracts and Contract amendments with four percent of the dollars arising from P-Card purchases and the balance from purchase orders for materials and equipment.
4. This report excludes blanket contract values which are only estimates and not used for payment obligations.
5. Data is summarized by business categories (Woman Owned Minority Enterprise 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
<b>CONTRACT</b>			
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.	Ongoing