

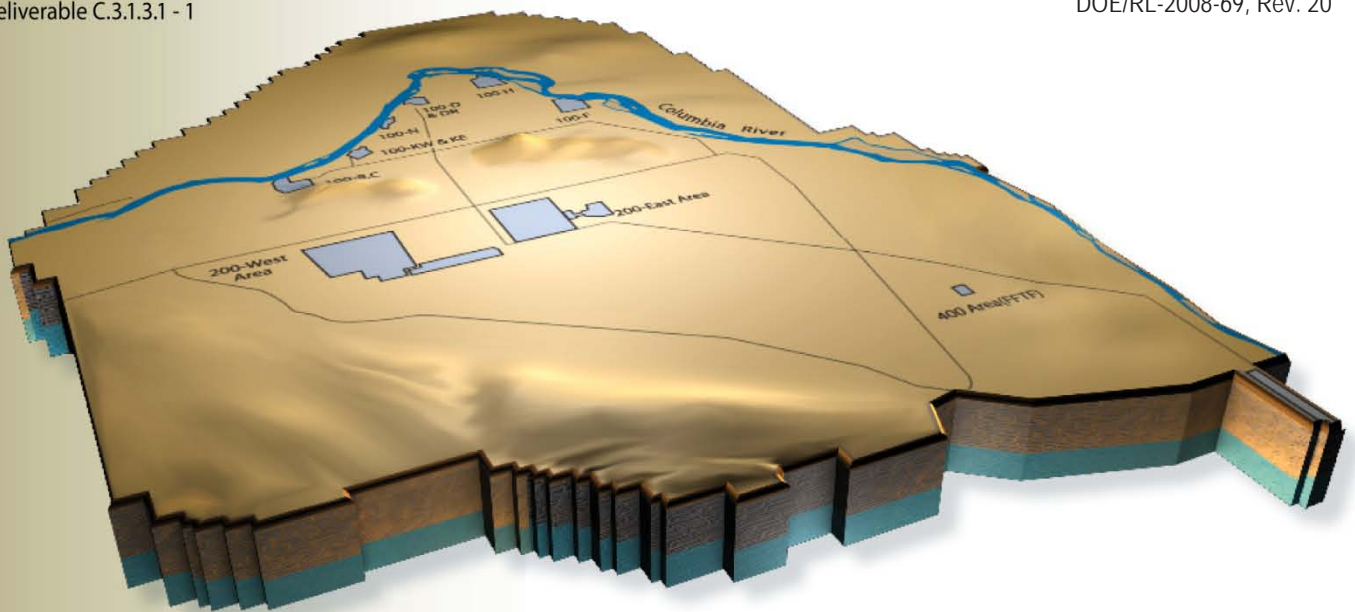


J. G. Lehew  
President and Chief  
Executive Officer

# Monthly Performance Report

U.S. Department of Energy Contract,  
DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

**June 2010**  
DOE/RL-2008-69, Rev. 20



## CONTENTS

EXECUTIVE SUMMARY.....	2
TARGET ZERO PERFORMANCE.....	3
PROGRAM SUMMARIES.....	4
PROJECT SUMMARIES.....	10
KEY ACCOMPLISHMENTS.....	16
MAJOR ISSUES.....	31
EARNED VALUE MANAGEMENT.....	34
FUNDING ANALYSIS.....	47
BASELINE CHANGE REQUESTS.....	48
SELF-PERFORMED WORK.....	52
GOVERNMENT FURNISHED SERVICES AND INFORMATION.....	52

## PROJECT BASELINE SUMMARY SECTIONS

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

## APPENDICES

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

# EXECUTIVE SUMMARY

## Focus on Safety



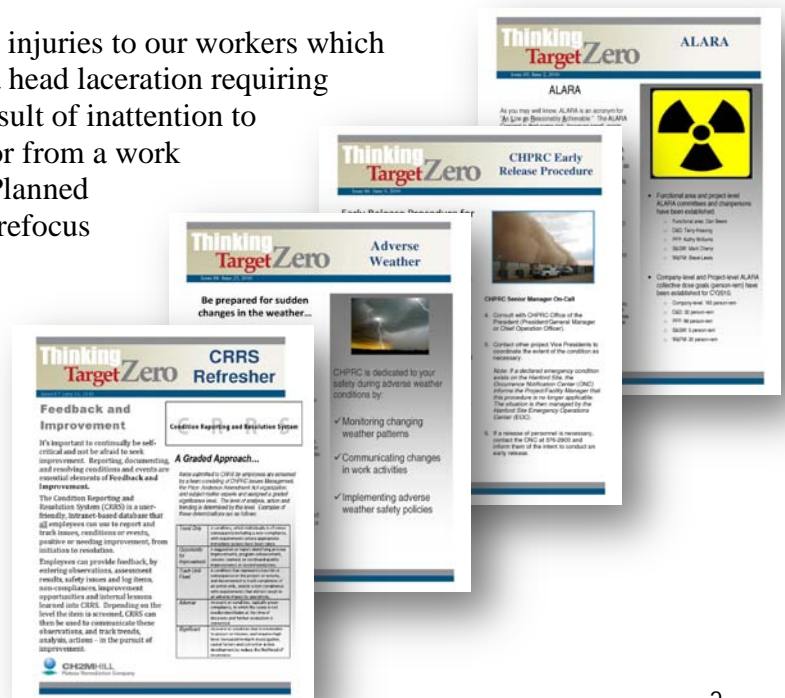
This month’s safety focus was on development of the site-wide corrective action plan for the implementation of the Chronic Beryllium Disease Prevention Program (CBDPP). Members of each site contractor including DOE and AMH worked cooperatively in June to develop this corrective action plan, in response to the Health, Safety & Security DOE/HQ Beryllium Site Assessment conducted earlier this year. As these actions are rolled out across the site, workers will observe additional controls, postings, and sampling activities in the workplace. In support of these actions, CHPRC developed a beryllium informational webpage on the CHPRC company website to help communicate upcoming changes, provide answers to Frequently Asked Questions, and other pertinent beryllium information for CHPRC’s work force.

Other significant safety related activities included the CHPRC Board of Directors assist/assessment. The purpose of this assessment was a review of our CHPRC planned actions in response to the recent RL letter indicating our failure to meet minimum safety performance requirements. Areas covered by our Board of Directors included:

- Opportunities for Improvement
- Communications
- Line management ownership for Safety Management Programs
- Organizational relationships
- Recent Events & Corrective Actions

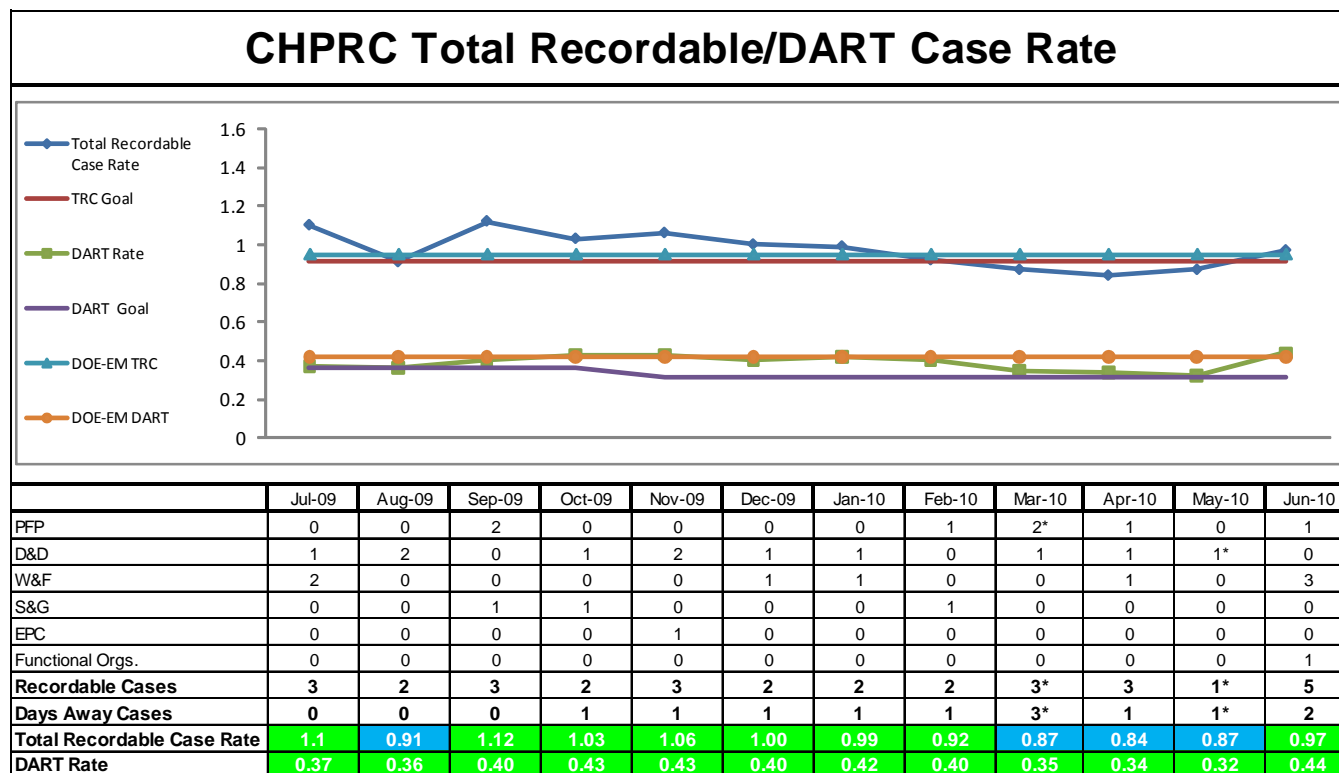
The assessment outbrief also provided insight from RL regarding our continuous safety improvement actions and our customer relationships.

Across our project we incurred five recordable injuries to our workers which included a foot fracture, a finger fracture and a head laceration requiring staples. Many of our injuries appear to be a result of inattention to detail or loss of focus typically on the way to or from a work activity, rather than during conduct of work. Planned actions to help prevent such injuries include a refocus of our “Workers Observing Workers” (WOW) campaign, enhanced supervisory watch activities in the workplace, and review of Personal protective equipment (PPE) prescribed to workers. Each Project’s Employee Zero Accident Council (EZAC) has been requested to help provide safety suggestions for these efforts and will continue to be a topic at our monthly President’s Zero Accident Council (PZAC) meetings.



## TARGET ZERO PERFORMANCE June 2010

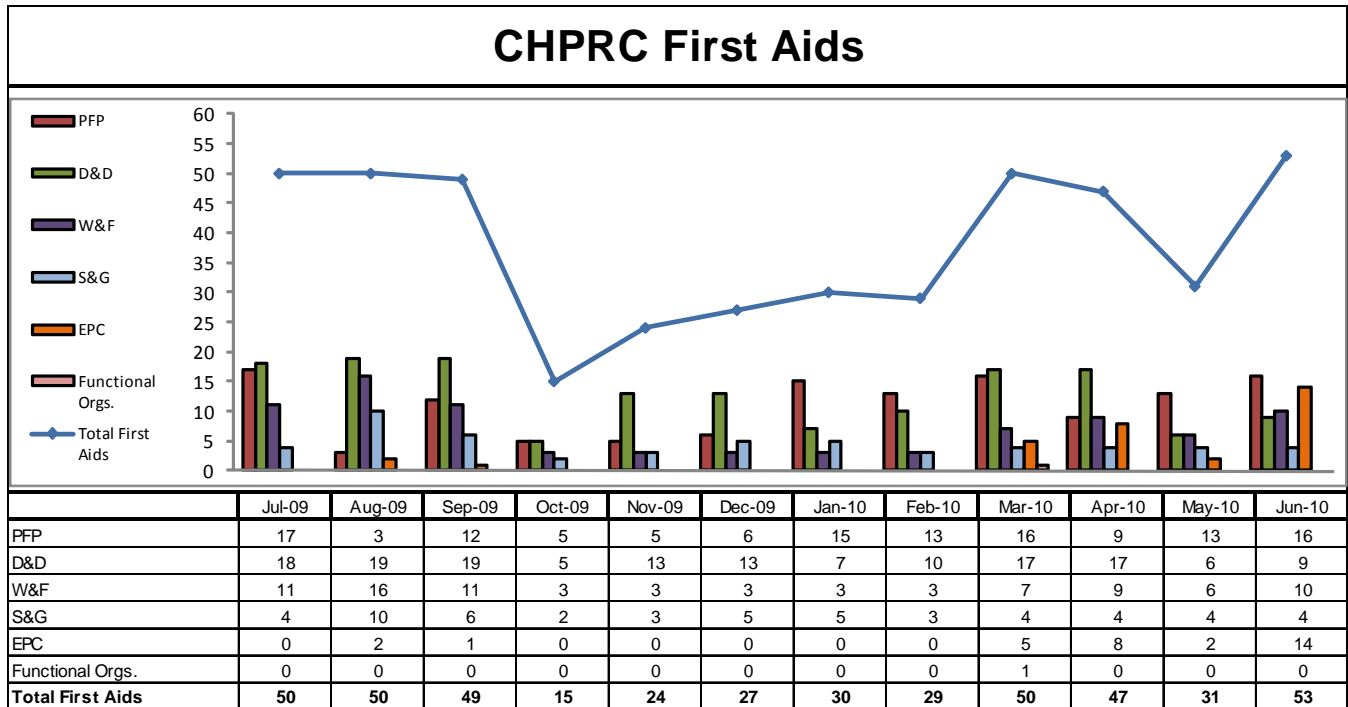
CHPRC continued focusing on integrating safety programs in all program and project areas.



**Total Recordable Injury Case (TRC) Rate** – The 12 month rolling average TRC rate of 0.97 is based upon a total of 31 recordable injuries for the period. Nine cases are under review requiring additional information. The EM TRC rate for CY 2009 equals 0.97.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.44 is based upon a total of 14 cases. The DART rate is slightly higher than any month in this period. The EM DART rate for CY 2009 equals 0.42.

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



**First Aid Case Summary** – Fifty-three first aid cases were reported in June. Sprains, strains and pains were the leading injuries followed closely by un-described/precautionary checks. Nearly 60% of the injuries occurred in transit to or from the worksite or from task to task. Eye irritations were up in June along with the precautionary evaluations due to an increase in events where there was a suspicious odor or an unknown. There was an increase in cuts and lacerations due to personal contact.

## PROGRAM SUMMARIES

### Safety, Health, Security, and Quality

The Safety, Health, Security and Quality (SHS&Q) organization continues to concentrate on our continuous improvements in project safety programs. The central SHS&Q group has provided personnel resources directly to specific projects in support of critical needs in the areas of industrial safety & hygiene and radiological protection.

In June, SHS&Q personnel visited three other DOE complex sites to baseline their performance indicator programs. Idaho, Sandia, and Los Alamos site were chosen based upon feedback from RL and CH2MHill corporate representatives. This baseline will be utilized to improve our CHPRC performance indicators and metrics program.

Other activities in June have included support to the site beryllium corrective action plan development, and the project assist and assessment of our Conditional Payment of Fee (CPOF) activity’s status by CH2MHill corporate Board of Directors.

### Environmental Program and Strategic Planning (EPSP)

Several EMS targets or steps towards targets were completed in June including:

- Energy Savings Upgrades for WESF
- Implement P2 actions at MASF
- Complete P2OA for new construction shops in the Unsecured Core Area

Work continued on the actions identified under CR-2010-0559 for enhancements to Environmentally Preferred Product procurement processes. Requirements were clarified, a green catalog and other procurement tools were developed, and Environmental Compliance Officers have been trained. Related actions such as preparation of materials for training of BTRs, material coordinators, and P-Card holders were also initiated.

**Environmental Protection Agency (EPA) Activities:**

- A letter from EPA confirmed that the corrective actions for the overflow protection requirements associated with the underground storage tank at PFP were sufficient to close the enforcement action.
- Regulatory staff from EPA and Washington Department of Ecology (Ecology) toured a number of 200 East and 200 West outer area waste sites with representatives from the DOE and CHPRC.

**Washington Department of Health (WDOH) Activities:**

- An occurrence report was generated, training of key personnel was conducted, and other actions were taken to mitigate the impacts of starting construction of the new water system facilities for 100K prior to written approval from WDOH on the Project Report and Construction Documents.

Final comments were received from DOE-HQ on the draft amended Record of Decision, "Decommissioning of Eight Surplus Reactors at the Hanford Site, Richland, Washington," and the supporting supplement analysis. Regulatory Services and Reporting assisted the Hanford NEPA Compliance Officer in resolving the comments. Publication of the amended Record of Decision is anticipated in July.

The management assessment, "TSD Operations (Container Storage and Labeling)" was completed in June. There were a number of minor findings pertaining to labeling that have been corrected. Results from this assessment are being shared with all CHPRC container management facilities.

**Other Environmental Program activities in June included:**

- On June 29, revisions to CHPRC-PRO-EP-15333 and CHPRC-PRO-EP-15335 were published that clarify roles and responsibilities between MSA and CHPRC in EPCRA reporting, and clarify limitations on drinking water system modifications and construction prior to Department of Health approvals.
- Assisted in the approval by EPA and RL of three TPA Change Notices addressing relocations of 100-K Ambient Air monitoring stations. The approval was based on a set of CHPRC responses to an extensive set of Department of Health questions and comments provided to RL by EPA.
- Provided input on the Air Operating Permit Compliance 2009 Compliance Certification Report to MSA on June 15. Completed review for the 2009 Annual Radioactive Air Emissions Report, and provided to MSA per its request.
- Submitted a write-up on the highlights of the 218-W-4B Alpha Caissons Waste Handling Assessment study to the Alpha Caisson Project (Project being placed on-hold).
- Strategic Planning Activities:
  - Updated the risk management profile for Sludge Treatment, Soil and Groundwater, Balance of Site D&D, and 100-K D&D in preparation for new risk analysis in support of FY 2011 budget update.
  - Prepared schedule and cost data inputs for preparation of running a new risk analysis on the reapportionment BCR.

## Business Services and Project Controls

In June 2010, CHPRC approved and implemented nine (9) baseline change requests, of which one (1) is administrative in nature and did not change budget, schedule or scope.

The nine (9) change requests are summarized in the Baseline Change Requests section of the Overview. Overall, the contract period PMB budget increased \$62,313K in June 2010. Management reserve, in the amount of \$6,162K, was used to offset realized risks as discussed above. 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.

During June, Prime Contracts received and processed three (3) contract modifications (#106, 107, and 097) from RL. The Correspondence Review Team reviewed and determined distribution for 53 incoming letters and the Prime Contract Manager reviewed 97 outgoing correspondence packages.

Submittal of ~30 Request for Equitable Adjustments (REA) for the ARRA scope still remaining from the Modification 087 partial definitization lead to the final definitization of the remaining ARRA scope in June. Discussions and interfacing with various project groups, legal counsel, and senior management culminated in the completion of definitization of the ARRA work scope and the signing of Modification 108 on July 2, 2010.

Property Management initiated the annual inventory of Sensitive Property in June. A total of 4,507 items will be inventoried. As of June 20, 4,133 items or 92% of the items have been verified. There have been no items reported on Loss/Damage/Destruction reports to date. The target for completion of field work for this inventory is July 21, 2010.

The Phase III ARRA mobile office project is underway with the procurement of 34 units. Deliveries commenced on April 2, 2010 and 32 units have been delivered as of June 24, 2010. All units are scheduled for occupancy prior to August 31, 2010.

Facilities and Property Management conducted two (2) Building Administrator (BA) Workshops on June 1. Fifty one percent of the CHPRC Building Administrators (BA) attended the workshops, and non-attendees were provided with handouts. The workshops were focused on a general refresher of BA duties and responsibilities and a discussion of new processes that will improve efficiencies in maintenance and the correction of safety related issues.

Facilities and Property Management along with the RL organizational property management officer conducted the annual assessment of the CHPRC Personal Property Management System in June. CHPRC is awaiting the formal results of the assessment.

In preparation for the recently completed Program evaluation and review techniques (PERT) review, the CHPRC Procurement organization performed an exhaustive system readiness assessment between December 2009 and May 14, 2010. The readiness activities included review of over 600 contract/purchase order files utilizing the CHPRC PERT File Review Checklist. The second readiness activity was the completion of the PERT Matrix, which is based upon the Guiding Principles contained in DEAR 970.4402-2. Various criteria are provided under each guiding principle, with the following information required from the subject procurement system: (1) responsible management system; (2) self rating; and any observations that the contractor desires to provide. The readiness review was documented as Management Assessment (MA) No. BS&PC-PM-10-MA-019. This MA confirmed through the results of the file reviews that system adequacy and compliance did in fact exist. The completed PERT Matrix demonstrated that the CHPRC Procurement System adequately addressed each PERT criterion, and confirmed that the procedure was adequate.

During June, CHPRC Procurement group awarded/amended \$40.8M in subcontracts to support Base/ARRA acceleration objectives. Record levels of procurement volume have been processed over first 21 months of the contract (\$1.19B in new awards including \$496 million for ARRA). The contract-to-date procurement volume encompasses 3,692 releases, 5,700 POs, and 97,000 P-Card transactions.

Breakdown of procurement sources by dollars:

- Over 94% of total expenditures (\$1.19B) arise from service and staffing contracts and amendments
- Over 4% of the reported expenditures are P-Card purchases (\$43.0M)
- Purchase orders for materials and equipment make up less than 2% of the total expenditures

Other Procurement activities in June included:

- Created TAG: 1DEX to identify all Groundwater Spares being created to support the new DX facility. This action was taken to assist account managers in estimating costs associated with the project.
- Stepped up efforts to assist DA's in identifying Spare Parts to excess an action that emanated from a meeting between MSA, WRPS & PRC on "Rightsizing Inventory." June activity resulting from this effort included processing four Declaration of Excess forms totaling approximately \$45K.
- Updated two documents in the PassPort Library: HEPA QAIP for Standard Filters & HEPA QAR, per a request from the HEPA Filter SME
- Closed a CRRS action on approving chemical purchases by updating SMEs in the eBOM system and sending a communication regarding required approvals
- Provided requested information to DOE as backup to REAs and PCard information on monthly invoices

Interface Management finalized a revision to the CHPRC/MSA Water Systems Administrative Interface Agreement (AIA) to change it into an Interface Control Document (ICD) documenting the detailed physical boundaries between MSA and CHPRC responsibilities for Hanford site water system connections to CHPRC facilities. The need for better definition of these boundaries was identified as an issue as a result of a disagreement between CHPRC and MSA on responsibility for the CSB/2704HV water loop which services a combination of CHPRC and WRPS facilities.

Other Interface Management activities in June included:

- Interface Management worked with MSA and WRPS to complete a revision to MSA Fleet Services Service Definition Document incorporating supplemental guidance on which types of vehicles and equipment in the MSA managed Fleet will typically be procured by CHPRC and which types will typically be procured by MSA. Clarification of these definitions will enable improved CHPRC planning for vehicle and equipment acquisition.
- Interface Management worked with CHPRC EP&SP and WRPS to complete a revision to Administrative Interface Agreement TOC-AIA-PRC -00007, Rev.1, between WRPS and CHPRC for Hanford Environmental Data Integration.
- Interface Management continued to work with Advanced Med Hanford (AMH) and within CHPRC on resolution of issues related to scheduling of AMH exams for PRC workers. These issues include long lead times (approximately four weeks out as of mid June) to schedule required medical exams and the number of "no shows" for CHPRC worker exams. Interface Management also facilitated arranging with AMH the scheduling of short notice exams for a number of workers at the request of CHPRC Projects so that the workers would be qualified when required to perform high priority field work.



- Interface Management worked with the DOE Office of River Protection, ATL, and the CHPRC Projects to address a reduction in the projected FY 2010 sample load from CHPRC to the 222S Laboratory. This effort included development of a revised FY 2010 forecast and identification of its impacts on the current Service Level Agreement (SLA) between CHPRC and ATL.
- Interface Management continued to work with MSA Electrical Utilities and the CHPRC Soil and Groundwater Remediation Project to resolve MSA concerns related to the proximity of some of the on grade groundwater pump-and-treat transfer lines to Hanford Site electrical lines.
- Interface Management worked with the CHPRC D&D Project and MSA WSCF to successfully resolve the CHPRC D&D Project's concern related to whether MSA WSCF would be able to support the projected significant increase in demand for WSCF analysis of occupational health related samples for asbestos and beryllium required to support planned D&D Project field work.
- Interface Management worked with Project Controls to develop the CHPRC response to MSA's call for an updated forecast of CHPRC needs for MSA provided site services.
- Interface Management completed work with MSA and WRPS to finalize the FY 2010 update to the Hanford Site Interface Management Plan.
- Interface Management supported community outreach by providing the tour guide for two public Hanford site tours and providing a talk to the Pasco, Washington Sunrise Rotary Club on CHPRC and our progress on our Hanford site cleanup mission.
- In conjunction with MSA and CHPRC Waste & Fuels Stabilization Project, Interface Management supported development of an update to the Administrative Interface Agreement between CHPRC and MSA on generating and applying solid waste information and tracking system barcode labels to new waste containers.
- Interface Management continued to support the CHPRC EPC lead Task Team chartered with defining potential near term activities for Phase II of the K-Basins Sludge Project for additional DOE funding. Phase II consists of activities necessary to treat and package the retrieved sludge and transport it to a national repository.
- Interface Management continued to support CHPRC Project Controls efforts to develop an REA related to Usage Based Services.

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

Central Engineering support in June included:

- Managed performance of an Independent Assessment of the PFP HVAC Vital Safety System (EPC-ENG-IA-10-09) as part of the Corrective Action Plan that was delivered to RL on March 4, 2010. The Final Report was completed June 30, 2010. The assessment identified six findings, eight Opportunities for Improvement and one Noteworthy Practice. Actions have been entered into the CRRS; responses to S-10-SED-PRC-021 were included in the Corrective Actions.
- Update to the PRC seismic spectra is pending response to letter CHPRC-1000326. This new spectra will satisfy the requirements of DOE-STD-1020-2002 & DOE-STD-1189 and the SCRDO 420.1B Rev. 4, Section E (5) PRC-Natural Phenomena Hazards Mitigation for DOE Facilities.
- Provided information in support of procuring replacement HEPA filters for the 2706-T facility. Filters on schedule for receipt and installation by the end of FY 2010.
- The CHPRC Chief Engineer gave a presentation at the Energy Facilities Contractors Group (EFCOG) Annual Meeting. The presentation provided a status of activities of the Engineering Practices Working Group (EPWOG). The EPWOG is preparing Best Practices for Commercial Grade Item Dedication (CGD), Configuration Management, and System Engineer Program

activities. The EPWOG is also working with the Human Capital Working Group on developing a DOE complex-wide Fire Protection Engineer staffing/mentoring program.

- Continued to provide technical direction and design review to construction projects. E.g. Sludge Treatment Project, 200W Pump-and-Treat, W&FM retrieval and treatment projects.
- Continued to provide technical support to the ARRA facilities projects, including Statement of Work (SOW) review and approval, detailed design drawing checking and approval, calculation preparation, submittal reviews, Facility Modification Packages (FMPs), Design Change Notices (DCNs), Memorandum of Understanding (MOU) review and approval, and field walk downs at the mobile office construction sites.

### Communications and Outreach

In June, CHPRC Internal Communications launched the new weekly news video *InSite*. Available to all employees and subcontractors, the video provides another platform for delivering CHPRC and DOE safety messages, progress reports, employee recognition, etc.

Communications produced the June All-Employee meeting held at the Toyota Center.

Communications worked with Business Services to communicate the employee rewards and recognition plan, and supported CHPRC EMS efforts by writing articles for *On the Plateau*, producing posters and adding a monthly EMS feature to CHPRC's weekly news video.

Communications project support included:

- Produced a presentation for the Vice President of Soil & Groundwater to present at the Project Management Institute
- Participated in value engineering workshop aimed at re-vamping the site-wide information protection and clearance process
- Produced several project DNFSB presentations
- Revamped the Soil and Groundwater 200 West Pump-and-Treat public tour stop. Adding a video explaining the process and several physical props and visual aids.
- Developed graphics and animations for in situ bioremediation and appetite barrier process.
- Continued a comprehensive field communications audit, with meetings with VP's, direct reports and first-line supervisors
- Produced, reviewed, and cleared 46 presentations for internal and external audiences

CHPRC Office of Public Affairs supported RL with multiple Recovery Act and Base outreach activities throughout the month of June.

Recovery Act support included submission of Recovery Act weekly progress reports and progress videos. Recovery Act progress videos produced in June included:

- Asbestos removal in the 200 East Area
- Demolition of U Ancillary facilities
- Construction of footings for the 200 West Groundwater Treatment System transfer buildings
- Demolition on the upper Arid Lands Ecology Reserve
- Drilling in the 200 West Area
- Profile on Cascade Drilling, a small business subcontractor to CHPRC
- Construction of the 100K Area water treatment facility

DOE Environmental Management division (DOE-EM) featured an article on CHPRC's remediation of the BC Control Area in its recent *Recovery Act Update*. Articles submitted for future issues covered

completion of drilling in the 100-NR-2 operable unit and Cavanagh Services Group, a CHPRC subcontractor, winning the award for Small Business of the Year from DOE.

CHPRC supported RL on a tour with a review team from the DOE-EM on June 8. The review team included DOE-EM representatives Frazer Lockhart, Recovery Act federal project director, as well as John Neave, Ravi Kulkarni and Tom Tague who were visiting the site to see how ARRA funds are being put to work. The day-long tour included stops at several CHPRC ARRA projects, including the Plutonium Finishing Plant, the construction sites of the 200 West and DX Groundwater Treatment Facilities and the 100K Area.

Media support included a local media event announcing the start of demolition of U Canyon's final ancillary structures. An exclusive interview was also held with the Tri-City Herald on restarting waste retrieval activities.

Public Involvement support included logistics and material support for two public meetings on the Proposed TPA Change Packages on the Central Plateau Cleanup and the Low-level Mixed Waste and Mixed Transuranic Waste. The meetings were held at Portland State University in Portland, Oregon on June 23 and at the University Heights Community Center in Seattle, Washington on June 24.

Approximately 20 people attended each meeting. The Seattle meeting was covered by KEXP, 90.3 Public Radio Station and shown on YouTube - <http://www.youtube.com/watch?v=BdMHvUcn2wc>. CHPRC has begun compiling and categorizing public comments received throughout the 66-day public comment period (April 26 – June 30, 2010) on the Proposed TPA Change Packages.

CHPRC developed public information materials (TPA-required advance notice, fact sheet, newspaper advertisement) to support the Proposed Plan Amendment to the 100-NR-1/NR-2 Record of Decision. An advanced notice and fact sheet to support the upcoming 212-N/P/R Facilities Engineering Evaluation/Cost Analysis Addendum 1: Disposition of Railcars was also developed.

## PROJECT SUMMARIES

### **RL-0011 Nuclear Materials Stabilization and Disposition**

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

#### **American Recovery and Reinvestment Act (ARRA)**

Sixty-six gloveboxes and hoods have been removed from their originally installed locations at PFP with Recovery Act funds. Of these, 57 have been shipped out of PFP for treatment or disposal, four are awaiting packaging/shipment, and five are staged for future size reduction and disposal as transuranic (TRU) waste. CHPRC has now shipped approximately 1,228 cubic meters of waste from PFP with support from Recovery Act funds, including 1,062 cubic meters of low level and mixed low level waste (LLW/MLLW), 144 cubic meters of TRU waste, and 22 cubic meters of non-radioactive waste.

**234-5Z Laboratory Areas** – Three inter-connected gloveboxes previously removed from Room 136 of the Analytical Laboratory have had non-destructive assay (NDA) performed, and we have now confirmed they can be transported to the Environmental Restoration Disposal Facility (ERDF) for disposal as LLW. In addition, two hoods were removed from Room 141 of the Analytical Lab, transferred to the PFP Solid Waste Organization and shipped to ERDF for disposal as LLW.

**Plutonium Processing Areas** – Samples of material were successfully taken from within the hydrogen fluoride scrubber cell in room 232 and submitted for laboratory analysis. External mechanical isolations on Glovebox HA 46 continued while chemical decontamination of the 70 foot long conveyor Glovebox HA-28 continued. Fixative was applied to the inside of large Glovebox 400 in the former Radioactive

Digestion Test Unit area, inlet filters and ventilation monitoring equipment removed, and the glovebox was readied for isolation from building ventilation.

**Infrastructure Systems** – Non-destructive assay (NDA) measurements on the process vacuum system are now 67% complete. The work document for removal of process vacuum system piping has been released, and the field crew has started final setup of containment tents and other items as per the work document. The set up work includes the portable glovebox for size reduction of long pieces of vacuum piping removed from overhead runs that was fabricated and staged for final setup in the work area upon release of the work document.

During the month of June, 110 feet of asbestos insulation was removed, bringing the total for asbestos insulation removed with Recovery Act funds to more than 9,400 feet and the total for CHPRC to more than 10,100 feet.

Field construction forces continued installation of a supplemental cooling system to improve safety and working conditions during D&D of the process facilities during the upcoming summer months.

**2736Z/ZB Vault Facility** – The glovebox in Room 636 was successfully removed from ventilation and staged for removal from the building. The new port assembly to be used to facilitate removal of heavier items from the gloveboxes in Room 642 has been installed and is ready for use

**242Z Americium Recovery Facility** – 242Z Team continued with package development associated with mechanical isolation, electrical isolation, temporary electrical installation, and WT-2 glovebox removal. The Team successfully installed batteries and performed preventive maintenance on the man lift in 242Z. Preparation activities associated with painting the outside of WT-2 glovebox and 242Z airlock were completed and the first coat of paint was applied.

### **Base**

**236Z Plutonium Reclamation Facility** – Preparations for the size reduction of the pencil tank assemblies were completed. A management self assessment was successfully conducted to confirm readiness to initiate size reduction activities. The declaration of readiness for the Readiness Assessment (RA) was issued to the RA Team Lead. The nondestructive assay results on the first two canyon floor samples, along with the results from previous sampling of the pans, indicate that the material in the pans meets safeguards termination requirements. There was limited progress on equipment removal on the first and second east gallery glovebox due to needed repairs to the 17 inch vacuum pump. Work was initiated on the removal of the pulser glovebox. Planning is under way for removal of the pH glovebox and removal of the electrical services to the maintenance glovebox.

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

In June, STP submitted the CD-1 package for RL approval. RL letter 10-AMRC-0122 dated June 17 stated, “Based on the successful results of a series of independent project reviews and RL line management reviews conducted since the two-phased approach for executing the STP was proposed by CHPRC in January 2009, RL concludes that the Engineered Container/Settler Tank (EC/ST) subproject has satisfied the DOE O 413.3A requirement for CD-1 (tailored), and reached a sufficient level of maturity to proceed to the next project phase”. Leading to this letter, RL also completed the Conceptual Safety Validation Report (CSVR), which concluded that the Conceptual Safety Design Report (CSDR) that CHPRC submitted was very “clean”, in that it required no significant changes to the CSDR and identified specific areas where CHPRC had exceeded the minimum acceptable standard for such a document. The CSVR is consistent with draft recommendations received from the Technical Independent Project Review (TIPR). This is significant since this is the first CSDR submitted by CHPRC.

Also this month, STP and 100K Operations personnel completed both the retrieval of the sludge from the final Settler Tanks (all ten tanks emptied) and the borescope inspections of the tanks. After Engineering calculations of the remaining volume of residual sludge in the tanks and the volume estimates of the sludge retrieved into engineered container SCS-230, the filters will be removed and sampling of the material can be initiated.

At MASF, the engineering and testing organizations completed the conditional Construction Completion Document (CCD), documenting completion of the K Basin pool mock-up at the facility. In addition, the superstructure mock-up representing the KW Annex facility has been fabricated and is expected to be shipped to MASF in early July.

Fabrication of the KOP Disposition subproject low density separations funnel was completed and delivered to MASF for testing. This assembly was tested to determine its viability for removing aluminum wire and low density material from the product stream. Testing of the assembly was then completed, and the results indicate that the tool was very successful at removing the low density material (Grafoil, aluminum wire and gibbsite – a material form of aluminum hydroxide).

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

The Waste and Fuels Management Project (WFMP) focused on delivering safe, compliant performance.

#### **ARRA**

Weekly and monthly Recovery Act Reporting continued. Shipped 9.8m<sup>3</sup> M/LLW and completed 73.7m<sup>3</sup> of M/LLW waste during the month. TRU Retrieval completed construction of the two foot walls on three sides of the shoring box for 3A Trench 17 Box 3 and lifted the box onto the shoring base. Next Generation Retrieval (NGR) installed neutron tube in the Passive/Active Neutron Assay system. TRU Project repackaged 186 TRU containers, shipped 299 containers, and received 108 containers at T Plant. The Waste Receiving and Processing Facility (WRAP) completed non-destructive examination (NDE) for 369 drums and 483 non-destructive assay (NDA) drums. The mixed waste disposal trenches received 16 offsite shipments (69 containers) and shipped seven leachate Beall tankers to the Effluent Treatment Facility (ETF).

#### **Base**

The WFMP continued maintaining facilities in a safe and compliant condition. The Waste Encapsulation and Storage Facility (WESF) completed Energy Savings Performance Contract construction. The Canister Storage Building continued to support Container Restraint System (CRS) construction activities. The Central Waste Complex (CWC) received 25 on-site transfers (273 containers), and received eight off-site shipments (103 containers), shipped 64 on-site transfer (1183 containers) and three off-site shipments (four containers), Low Level Waste Burial Grounds (LLBG) is working with Balance of Site (BOS) to turnover stewardship of this burial ground. The 200 Area Treated Effluent Disposal Facility (TEDF) discharged 1.9M gallons. Slightly Irradiated Fuel Project completed pour of base slab for Project W-105, *Interim Storage Cask Pad #3 (CRS)*.

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

### ARRA

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

Activity	June		Cumulative	
	Planned	Completed	Planned	Completed
Welling drilling	29	13	205	247
Well decommissioning	13	32	130	150
200 West P&T – Final Design	17%	13%	49%	69%
200 West P&T – Construction	4%	4%	15%	15%
200 West P&T – Testing/Startup	0%	2%	7%	8%
100 DX P&T – Construction/Startup	10%	12%	72%	94%

### Base

Base work includes the pump-and-treat operations, CERCLA remedial processes, and documentation for the River Corridor and Central Plateau. Phase 2 realignment construction actions concluded at the KR4 system, and acceptance testing of affected components was completed. Phase 2 realignment construction actions were completed at the KX system and acceptance testing is 98% complete. The second of three rounds of risk assessment sampling for 100-HR-3 and 100-KR-4 decision units completed. Sampling and groundwater treatment completed in June include the following:

- 188 well locations were sampled with a total of 1,258 samples being collected
- 44 aquifer tube samples were collected from 25 tubes at 17 sites
- 15.37M gallons groundwater treated by ZP-1 treatment facility
- 24.6M gallons groundwater treated by KX treatment facility
- 8.1M gallons groundwater treated by KW treatment facility
- 10.8M gallons groundwater treated by KR-4 treatment facility
- 5.21M gallons groundwater treated by HR-3 treatment facility
- 1.16M gallons groundwater treated by DR-5 treatment facility

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

### ARRA

Completed demolition of 203UX and initiated demolition of 224U.

Continuing upper Arid Lands Ecology (ALE) demolition activities. Debris pile sites cleanup activities are continuing.

Equipment size reduction is complete and equipment placement activities in 37 of 40 cells are complete for U Canyon.

Demolished MO405 of the 200E Project structures and, began demolition on two other structures.

Completed Cold and Dark on the 284E Powerhouse.

Began Beryllium sampling and initial characterization activities on the 200 West Structures.

Remediation activities continued in the Outer Zone at BC Control area, CW-3 waste sites, and Model Group (MG)-1 waste sites. BC Control Area remediated approximately 25,300 tons of soil in June;

approximately 35.5 acres of BC Control Area, Zone A, have been cleared to date. Excavation at one CW-3 waste site (216-N-4) continued with approximately 2,700 tons of soil removed during June. Sampling/surveys have been completed on 14 MG-1 sites.

### **Base**

Planned surveillance and maintenance (S&M) activities continue.

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

#### **ARRA**

#### **Facilities**

Work continued on 105KE Reactor Disposition Interim Safe Storage activities. Hazardous material removal continued into June with asbestos removal starting on the east side of the reactor building and completion of glycol removal from the tunnel area. Demolition activities continued in June with horizontal control rod rack partially completed; removal of transite wall around counterweights started and walk-down of electrical equipment Rooms 15 and 28.

Continued final disposition characterization at 115KE (Gas Recirculation Building).

Continued demolition preparation activities on 117KE (Exhaust Air Filter Building).

Continued asbestos removal in the 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building) below-grade levels.

Demolition continued on the 183.1KW (Head House), the 183.2KW (Sedimentation Basin), the 183.3KW (Sand Filter) and the 183.7KW (Tunnel).

Continued characterization of the 183.1KE (Head House).

#### **Waste Sites**

Continued waste site remediation of the below listed Remove, Treat, and Dispose sites:

Waste Site	10-Jun		FYTD (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-3	-	-	5,507	392
100-K-42	-	-	9,688	660
100-K-47	5,049	238	12,311	828
100-K-56	1,953	91	10,249	664
100-K-68	1,238	57	6,960	359
100-K-71	2,594	123	4,975	344
100-K-102	-	-	10,222	546
116-KE-3	1,245	57	2,912	152
120-KW-1	76	4	9,149	455
183.1-Soils	11,188	561	5,427	249
183.1-Debris	8,872	552	23	1
100-K-53	155	9	195	15
<b>Totals</b>	<b>32,370</b>	<b>1,692</b>	<b>77,618</b>	<b>4,665</b>

Excavation work at 100-K-3 has been suspended to permit D4 access to the 105KE Rod Rack and 1706KE structural removal.

Work has been suspended on UPR-100-K-1 (work performed as 100-K-42) pending D4 performing the work of scabbling the diversion wall and breaking up the remainder of the floor.

Work on sites adjacent to and north of the 100-K-42 are progressing. These sites include 100-K-47, 100-K-53, 100-K-56, 100-K-68, 100-K-71, and 116-KE-3. More contamination than planned is associated with these sites but there is currently no jeopardy to the completion milestone. Excavation is expected to be completed in this region, except for 100-K-42 and 100-K-3, by mid-July.

Remediation near the 183.1KW Head House is being conducted as a single excavation. Ten waste sites were excavated as a single waste site under 120-KW-1. Post excavation sampling indicated extensive lead, mercury, and hexavalent chromium contamination remaining in the excavated area. Further excavation is required and planned to be initiated during July. No treatment for disposal is required.

Excavation was concluded at 100-K-102, a recently discovered mercury-contamination area. Analytical laboratory samples indicate results are greater than the Remedial Action Goals and further excavation is required.

Removal of the below grade portion of 183.1KW has encountered additional contaminated soils that are attributed with the newly discovered site 100-K-109.

Remedial Action Reports (RARs) were issued as “decisional draft” for RL and EPA review for six waste sites. Those sites are listed as 116-KE-6A through D, 100-K-37, and 100-K-38. Comments provided by RL and EPA are currently being incorporated into the documents.

### **Other**

Sludge vacuuming continues in K West Basin East Bay with a targeted completion date for sludge removal of September 30, 2010. Over 610 debris units have been removed from the K West Basin to date.

**HVAC Project:** Work continued on the K West Basin Airborne Contamination Remediation Project with ventilation ducting installation of 320 feet of the 700 feet interior ducting resulting in a 46% completion. EPC Construction Services is experiencing a more complex HVAC installation which has resulted in longer than planned installation time. Mandated use of APR respiratory protection (use of PAPR hoods is no longer allowed) has also resulted in taking more time to install due to respirator use time limits. Subcontractor of the three outdoor ventilation units has not provided delivery as stated in their proposal and will require work-around activities until they are delivered. Procurement and project team are meeting with subcontractor to define issues and regain schedule loss.

**Electrical Project:** Work continued on the 100K Reactor Power Isolation Project with installation of five skids, associated circuit breakers, and components. Initiated trench excavation, conduit installation, and backfill for the cable raceways. Completed installation of 73% of underground three-inch conduit (800 lf of 1,100 lf). Fabrication activities for the mobile control substation are continuing. Delivery of the first transformer is scheduled for August 24, 2010. CHPRC and MSA EU performed factory inspection of 15kv switchgear on June 23. Subcontractor has ordered materials and will begin installation of poles in early August.

**Water Project:** Work continued on the 100K River Water Infrastructure Isolation Project with construction starting on installation of the inside-the-fence fire water and potable water piping (Phases II, III, and IV). Work activities for installation of the Import Water Line outside-the-fence to Helen’s Junction are over 90% complete and awaiting a final tie into the raw water line after the Washington State Department of Health Permit is obtained. Installation, along with fabrication of the components for the Water Treatment Building and Dual-use Water Tank, is proceeding. Subcontractor has completed foundation work for the dual use tank and water treatment building. Delivery of the pre-engineered metal building and water tank was accomplished. The east and north sides of 100KW Reactor have been excavated and the new fire water line has been installed and backfilled. A contract



modification was issued to repair a roadway damaged from a water project installation from K Avenue to the new trailer area west of Cold Vacuum Drying Facility (CVDF).

## **Base**

### **Facilities**

Work continued on 105KE Reactor Disposition Core Removal activities: preliminary design, core characterization (core boring), and regulatory documents (EE/CA and NEPA).

Continued characterization and deactivation on 110KW (Gas Storage Facility) and 115KW (Gas Recirculation Building) which will be removed as one demolition.

Deactivation continues on 117KW (Exhaust Air Filter Building).

Characterization continues on the 118KW (Horizontal Control Rod Storage Cave).

Decontamination continues on four buildings which will be removed at the same time. They are the 1717K (Maintenance Transportation Shop), 1717AKE (Electrical Shed), 1724K (Maintenance Shop) and 1724KA (Storage Shed).

Deactivation continues on four K West mobile offices to be removed as a group (MO236/MO237/MO323/MO955).

### **Waste Sites**

The Remedial Action Report (RAR) for 100-K-4 was issued as “decisional draft” forwarded to RL and EPA for review.

Waste Site	June-2010		Cumulative (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-4	0	0	2989	209

### **RL-0042 Fast Flux Test Facility (FFTF) Closure**

The Fast Flux Test Facility (FFTF) is being maintained in a low-cost surveillance and maintenance condition. The 400 Area water system continues to operate providing service to other occupants of the 400 Area and water for fire protection. The motor for deep well pump P-16 was replaced during the month and the pump has been returned to service. Deficiencies identified during the annual surveillance performed in March are being worked to resolution as resources permit.

All scope within the FFTF Closure (RL-0042) project is base funded. There is no funding from the American Recovery and Reinvestment Act.

## KEY ACCOMPLISHMENTS

### RL-0011 Nuclear Materials Stabilization and Disposition

#### 11.02 Maintain Safe and Compliant PFP – Base

- Considerable progress was made towards implementation of DSA and TSR changes to transition the 2736Z Complex into its D&D mission, incorporate RL annual update comments, and to close out the plutonium solubility justification for continued operation. Implementation is anticipated for July 15, 2010.

#### 11.05 Disposition PFP Facility – Base

##### Plutonium Reclamation Facility (PRF)

- Preparations for size reduction of the PRF pencil tank assemblies were completed
- The management self assessment on the readiness to size reduction the pencil tank was completed and the declaration of readiness for the RA was issued
- Removal of the pulser glovebox was initiated
- Process equipment removal from the first and second floor east gallery gloveboxes continued and is approximately 52% complete

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

- In RMA Line Room 235B, the team supported review of and input to revisions to existing procedures and work documents to implement new beryllium controls
- In RMA Line Room 232, work continued to remove the remaining external mechanical connections to Glovebox HA-46
- In RMC Line Room 227, the re-planning of work documents to incorporate new chemical controls
- In RMC Line Room 230C, the team supported review of and input to revisions to existing procedures and work documents to implement new beryllium controls
- In the RADTU area, Room 235D, the D&D team completed the internal process equipment removal, separation from ventilation, and removal of Glovebox 400

#### Standards Laboratory:

- The last eight gloveboxes and hoods were removed from the Standards Lab, and five of the eight have been shipped to ERDF for disposal as LLW. The remaining three have been loaded into a shipping container and are scheduled for shipment to ERDF in late July.

#### Analytical Laboratory:

- The 136-1, 2, 3 gloveboxes were relocated to a low background area in PFP and NDA measurements were performed, which confirmed the glovebox status as LLW
- Process equipment removal continued for the six gloveboxes in Room 139
- Two hoods were removed from in Room 141, and were turned over to the SWO organization for disposal as LLW.

#### Plutonium Process Support Laboratories:

- External equipment removal work continued in Room 180 in preparation for D&D work on the hood and glovebox in that room
- External equipment removal work commenced on the Room 188 glovebox

#### 242Z Americium Recovery Facility

- Completed installation of batteries and performed PM on man lift. Man lift declared operable.
- Finished prepping WT-2 and 242Z airlock for painting activity

- Applied first coat of paint on external of WT-2 and 242Z airlock

### **2736Z/ZB Vault Complex**

- Glovebox 636 has been successfully separated from building ventilation
- A new port assembly was installed to facilitate removal of heavier process equipment from gloveboxes in Room 642
- NDA and radiological surveys were completed to support transition of the PFP vault complex buildings to the D&D DSA and TSRs

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

#### **Sludge Treatment Project (STP)**

- After the submergence test of the Bredel hose pump (SPX) at MASF, water intrusion was discovered during the inspection of the pump to gearbox void space. The pump was disassembled for further inspection and analysis. A test exception was generated and a path forward plan developed, pending lab results on the lubricant samples.
- In support of 100K debris removal, MASF personnel fabricated a test cell to perform initial cuts on tubing. The cell consisted of a stainless steel box with mounts to hold sample specimens, and a Lexan lid for retention of possible ejected pieces during cutting. Two successful demonstrations were performed using the shear tool, with 100K Operations personnel witnessing the demonstrations.
- Initial parametric calculations projecting the extent of U-Metal oxidation during the interim storage period in T-Plant or the AIS have been completed. The calculations also explore potential enhancements which could increase the extent of oxidation during interim storage. Calculations are being structured into an engineering calculation format, and an annotated outline for an engineering reference document has been prepared. Initial results indicate very little oxidation would be expected for nominal conditions of interim storage for periods ranging from 5-20 years. Potential enhancements include higher temperature storage conditions and conditioning the storage water to maintain anoxic conditions during the interim storage period. This information will be incorporated into the Phase 2 Technology evaluation to specifically respond to one of the outstanding EM STP-ETR team comments.
- In response to the failure of pump skids during the Settler Tank retrieval operations, STP Management has decided to conduct tests at MASF to re-create and analyze the pump failure modes. This action is taken to mitigate the risk of pump failure in the event that a second Settler Tank retrieval campaign is required after the borescope inspection activity. MASF personnel have initiated the set-up of a slurry loop system for testing, and drafted a procedure for “run-to-failure” trials on the retrieval pump.

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

#### **ARRA**

#### **13.01 Project Management**

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

#### **13.02 Waste Encapsulation and Storage**

- Completed Energy Savings Performance Contract construction
- K1 and K3 Heating, Ventilation, and Air Conditioning Upgrades

- Met with Engineering, Project & Construction (EPC) and facility personnel to establish the project's execution approach, project interfaces with WESF, and a charter
- Approved Baseline Change Request authorizing the project to proceed
- Initiated the Project Execution Plan
- Assigned an engineer to develop the Functional Design Criteria
- Selected an option to install new exhaust skid and tie in K1 and K3 exhaust trains (an analysis will develop location and methods)
- Completed development and submittal of technical input for cesium and strontium capsule dry storage in the *Environmental Impact Statement for Retrieval, Treatment, and Disposal of Tank Waste and Closure of Single-Shell Tanks at the Hanford Site, Richland, WA* (TC&WM EIS)

#### 13.04 Mixed Low Level Waste (MLLW) Treatment

- Shipped 9.8m<sup>3</sup> of ARRA funded MLLW to treatment facilities, and completed 73.7m<sup>3</sup>
- Initiated shipment preparations of large container TRU/M to PFNW for size reduction and repackaging (First shipment scheduled for July 13, 2010)
- M-91-42 TPA:
  - 9.2m<sup>3</sup> shipped and 35.9m<sup>3</sup> completed during month
  - 8,213m<sup>3</sup> shipped and 8,153m<sup>3</sup> completed since January 2003 (Base & ARRA)
- M-91-43 TPA:
  - 0 m<sup>3</sup> shipped and 0 m<sup>3</sup> completed during month
  - 728m<sup>3</sup> shipped and 698m<sup>3</sup> completed since January 2003 (Base & ARRA)

#### 13.05 TRU Retrieval

- Shipped 3.4m<sup>3</sup> of previously removed containers to CWC (four drums and three boxes)
- Received results from air (SUMMA canisters) and decontamination line water samples from 4B T11 indicating no hazards; shrunk the exclusion boundary
- Planned and performed mockup for SUMMA canister sampling at the bottom of 4B T11 and initiated planning for elevated ground penetrating radar ground penetrating radar (GPR) survey of the event site
- Completed and approved the 3A Trench 8 Retrieval Plan and began development of associated excavation and retrieval procedures
- Completed construction of the two foot walls on three sides of the shoring box for 3A Trench 17 Box 3 and lifted the box onto the shoring base
- Continued 3A Trench 17 Boxes 80/82 repackaging work package planning and prepared for Hazard Review Board (HRB) meetings
- Completed construction of Kelly Klosure® structure and began electrical installation
- Installed permanent power conduit, light poles and power racks for new 3A facilities and occupied new RadCon (MO2163) and restroom (MO2315) trailers
- Next Generation Retrieval (NGR)
  - Completed Real-Time Radiography/Drum Warming Unit setup
  - Initiated calibration confirmation of the ANTECH Gamma Assay Unit
  - Installed neutron tube in the Passive/Active Neutron Assay system
  - Completed vendor installation of the BROKK camera equipment

#### 13.06 TRU Repackaging

- 216Z-9 Repack Campaign; expect to pilot repack five Z-9 drum in July
- Canyon on standby (no processing or compacting) during 291-T HEPA filter replacement
- Processed 159 parent drums; Created 177 offspring drums

- Generated eight drums from glovebag change outs
- Compacted 133 empty parent drums; Generated 26 full puck drums
- Shipped 299 containers on 16 shipments from T Plant
- Received 108 containers on 11 shipments at T Plant
- Shipped one ERDF containers to ERDF and received one empty container
- Shipped one empty roll off box to ERDF

### **13.07 Waste Receiving and Processing Facility (WRAP)**

- NDE 369 drums
- NDA 483 Non-WIPP drums
- Performed 91 Non-Waste Isolation Pilot Plant (WIPP) Quick Scans
- Received 42 drums from the Plutonium Finishing Plant (PFP)
- Continued OJT/OJE for TRUPACT II, NDE, NDA, Shipping/Receiving for nuclear chemical operators (NCOs)
- Completed installation of three additional office trailers as well as two restroom trailers (MO2159, MO2160, MO2161)
- Commenced TRU Waste Shipments to Idaho
- Completed final acceptance testing of Canberra continuous alarm monitors (CAMs) in the Process Area
- Continued HEPA filter replacement in the WRAP Process Area. Initial surveys indicated no contamination.
- Began cement pad preparation for the High Energy real-time radiography (HERTR)
- Successfully completed the Hanford Site Annual Emergency Exercise which involved local counties, state and federal response organizations
- Implemented the Master Document Safety Analysis (MDSA) Revision for WRAP

### **13.15 TRU Disposition**

- Supported Value Engineering Study to evaluate efficiencies in information protection and clearance process
- Began Ten Drum Overpack (TDOP) inter-site shipments to Idaho National Engineering Laboratory (INEL). Two shipments completed in June.
- Completed WIPP confirmation (RTR videos and datasheets) of 351 drums for WIPP Shipments RL100001 through RL100049
- CCP Support:
  - Public Release process: clearing documents on schedule at rate of 150 containers a week

### **13.21 Mixed Waste Disposal Trenches**

- Shipped seven leachate Beall tanker to ETF
- Received 16 offsite shipments, 46 containers

## **Base**

### **13.02 Capsule Storage & Disposition**

- WESF
  - Continued support to Energy Savings Performance Contract construction demolition and upgrade activities
  - Disposition of cesium (Cs)/strontium (Sr) capsules
    - FY 2012 Base-funded activities for Cs/Sr disposition will be deferred based on scope reprioritization

**13.03 Canister Storage Building**

- Continued Multi-Canister Overpack (MCO) Handling Machine (MHM) tests and inspections
- Continued to support Container Restraint System (CRS) construction activities

**13.07 Waste Receiving and Processing Facility (WRAP)**

- Maintained the facility in a safe and compliant condition

**13.08 T Plant**

- Maintained the facility in a safe and compliant condition

**13.08 Central Waste Complex (CWC)**

- Completed three off-site shipments, four containers
- Completed 64 on-site transfers, 1183 containers
- Received 25 on-site transfers, 273 containers
- Received eight off-site shipments, 103 containers
- Supported WRAP preparations for and completion of site wide drill. CWC/LLBG help contributed to a successful Emergency Preparedness site drill.
- On June 15, MDSA Rev 6B was implemented
- Polyurea Readiness Level 3 RSA's are being worked by responsible managers; contractor readiness is scheduled to be completed July 30, 2010
- Preparation for receipt of contact handled TRU waste from Washington Closure Hanford's 324 Building is ongoing. Shipments will arrive in Energy Solutions 10-160B cask on July 29 and August 5, 2010.
- Successfully completed HRB for Medium Risk Box Repairs
- Fire Systems Maintenance installed RFAR box and antenna at 2403WA. Work Package and FMP are being worked with a completion date of July 9, 2010. This is a Conditional Payment of Fee activity.
- CWC worked a swing shift to accept road closure shipments. CWC also worked on a Friday off to support receipt of Tank Farms 60 foot box.
- Completed installation of change trailer and survey building to support box repairs in the CWC expansion area.
- LLBG
  - 218-E-10 – Working with Balance of Site (BOS) to turnover stewardship of this burial ground.

**13.11 Liquid Effluent Facilities (LEF)**

- Received (June) 61 tankers; (80K gallons)
- Treated (June) to SALDS: 0 M gallons (due to replacement of Thin Film Dryer [TFD] rotor)
- 200A TEDF discharged (June) 1.9M gallons
- Received ERDF leachate (102K gallons) at LERF Basin 43
- Received 12 drums of Waste Sampling and Characterization Facility wastewater
- Began Basin 44 Campaign
- Maintenance activities
  - Completed change-out of TFD rotor
  - Performed inspection of TFD vessel with broken blades identified
  - Completed unplugging Secondary Waste Retrieval Tank (SWRT) B drain line
  - Completed repairs of multiple cracks in the Vessel Off-Gas drain line
  - Completed repairs to Sample Pump 68C-P-10 and returned to service
  - Repaired leaks on polisher air operated valves

- Repaired grout and special protection coating at Basin 42
- 310/340 Facilities
  - Completed training two shift operations managers and two NCOs for the Retention Transfer System (RTS) operation
  - Operating the RTS; 16 batches (476k gallons) discharged to City of Richland
  - Continued performing preventive maintenance (PM) activities at 310/340 for systems that will remain active after turnover (heating, ventilation and air conditioning [HVAC], fire, and compressed air)

### 13.12 Integrated Disposal Facility

- Completed required annual inspections and calibrations

### 13.16 Off Site Spent Nuclear Fuel (SNF) Disposition

- Slightly Irradiated Fuel
  - Completed pour of base slab for Project W-105, *Interim Storage Cask Pad #3 (CRS)*
  - Received and assembled Manitowoc 999 crane in the CSB yard area
  - Continued shop fabrication of aboveground structure for the CRS and initiated shop inspections
  - Received ISA Safety Evaluation Report (SER) from RL on June 7

### 13.21 Mixed Waste Disposal Trenches

- Maintained the trenches in a safe and compliant condition

## RL-0030 Soil and Groundwater Remediation

### EPC Projects in Support of S&GRP - ARRA

- The 200W Area Pump-and-Treat Project continued to move forward with release of issued for construction drawings to Skanska (general contractor) for the BIO and RAD building drawings to support construction activities; anticipated completion July 16, 2010. Forty-four road crossings have been completed. Due to well drilling activities at two locations, the remaining three locations are on hold until crews have completed installation, anticipated restart August 2010. All welding activities for the transfer piping complete for the well to transfer building runs. Additional activities will be necessary once the six buildings are erected to connect building to building runs. Construction activities started for the BIO and RAD buildings. The four BOP transfer buildings activities continue. Long lead equipment inspections were conducted on the ion exchange (IX) columns. Lime stabilization kick-off meeting was held with contractor and design team, 60% design package is due August 13, 2010.
- The 100-DX Pump-and-Treat construction is 96% complete. Work continues in the process building to make final connections between the piping and the ion exchange skids. The ASME Authorized Inspector (AI) has completed inspection of the ion exchange skids. Construction Acceptance Testing (CAT) has begun. Electrical Utilities completed the connection of site power to the Process Building and M2 transfer building. The M2 transfer building was energized on 6/29/10. This allows for early software address testing prior to the start of the Acceptance Test Procedure (ATP). The ATP has gone through a final review cycle with the design agent, construction, and S&GW Engineering. The ATP is planned to begin at the end of July after the completion of all CAT testing.

**EPC Projects in Support of S&GRP – Base**

- Phase 2 realignment construction actions were completed at the KX system acceptance testing is 100% complete
- Modutank Subgrade Waterline construction is 95% complete. Waterline hydrotest complete and pipe trench backfilled

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

	June		Cumulative	
	Planned	Completed	Planned	Completed
KR-4 RI/FS	2	1	6	1
100-NR-2 Barrier Emplacement	19	0	102	171
100-HR-3 H Area RPO	0	7	40	25
100-HR-3 D Area RPO	2	2	30	30
100-HR-3 RI/FS	2	0	4	0
200-BP-5 “K” Well	0	0	1	1
00-BP-5 “L” and “M” Well	0	0	2	2
200-ZP-1 West P&T Expansion 01.11	0	0	6	6
200-ZP-1 West P&T Expansion 01.12	1	2	5	4
M-24	1	1	3	3
100-BC-5 RI/FS	0	0	4	4
100-FR-3	2	0	2	0
300 FF-5 RI/FS	0	0	0	0
Drilling Total	29	13	205	247
Decommissioning Total	13	32	130	150

**Notes:**

- *200-ZP-1 Expansion*: Currently, 14 of 17 wells have been initiated. Recovery plan accomplished in June as planned and project is on target to complete before January 11, 2011.
- *100 BC-5 RI/FS* drilling began
- *100 FR-3 RI/FS* issued Notice to Proceed
- *300 FF-5 RI/FS* drilling began, but quickly stopped due to contractor equipment issues

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

Conducted the “200 West Inner Area RI/FS Work Plan scoping meetings” with the Agencies at the Portfolio Analysis Center of Excellence (PACE). A series of meetings are planned on this subject through July-August, 2010.

Public comment period on the Central Plateau Cleanup Completion Strategy was completed.

Coordinated and helped support public meetings. Public input comment response summary is under development.

**Risk and Modeling Integration Group**

Modeling/modeling parameters were presented at the June Tribal/Oregon/DOE Groundwater-Vadose Zone meeting.

**Cost Estimating**

- Finalized the environmental cost estimate document for 200-PW-1/3/6, CW-5
- Completed revisions on the 105 KE Reactor D&D estimate



- Completed 200E Rad Buildings EE/CA Environmental Cost Estimate document, Rev.0 and entered into IDMS
- Submitted the final 200-UP-1 GW FS Cost Estimate document, Rev.0

### **River Corridor**

#### **100-BC-5 Operable Unit - Base**

- Drilling began on RI/FS well C7508 on June 22, and reached the water table on June 30 at about 96 feet of depth. This well is located near C Reactor and will be drilled to the top of the Ringold Upper Mud (RUM) and will then be screened at the depth of greatest Cr(VI) contamination. Many samples have been collected. Drilling will begin soon on RI/FS well C7786, located north of 100-C-7 waste site.
- Preparations are complete for planned slug-testing activities, and field work is expected to begin by July 19, 2010

#### **100-KR-4 Operable Unit - Base**

- The monthly cultural resource monitoring for the KR4 Pump-and-Treat project was conducted on June 18. Tire tracks were observed at the southern edge of the well pad at well 199-K-116A. Railroad ties have been placed to prevent further vegetation growth from obscuring the extent of the well pad.
- Revision to the KR-4 Cultural Treatment Plan was sent to the Tribes on June 17 with a request for comments by July 23, 2010
- Phase 2 realignment construction actions were completed at the KX system and acceptance testing is complete with the exception of final adjustments to the wireless communication for extraction wells 199-K-153, 199-K-171, and 199-K-178. Replacement of 4.7 GHz antennas with 5.8 GHz antennas appears to have corrected the Wi-Fi interference problem. Extraction well pumps on wireless system have operated without signal dropout after antenna replacement and adjustment. Evaluations are being performed to improve signal strength with the wireless communication.
- Average flow through the KR-4 Operable Unit Pump-and-Treat system during the month of June was approximately 1,005 gpm, or 91% of treatment capacity.
- The cultural resources review report for the three remedial investigation wells in culturally sensitive areas was transmitted for SHPO review on June 17.
- Sixteen out of 18 wells sampled for the third round of sampling (high river stage) and remaining two will be completed first week of July.

#### **100-NR-2 Operable Unit - Base**

- The NR-1/2 OU Proposed Plan to Amend the Interim ROD was finalized and released as Revision 0 for a public review period that began on June 21. An expedited schedule is still being followed to meet a goal to have the IROD amended by September.
- Draft A of the 100-N Integrated SAP was submitted to Ecology on June 2, and is still under Ecology review. Comments are expected back by July 19, 2010.
- Two TPA change notices (CNs) were approved by RL and Ecology to allow RI/FS related sampling activities to occur prior to approval of the RI/FS Work Plan and SAP. These TPA CNs cover aquifer tube sampling and the first round of spatial-and-temporal groundwater well sampling activities that are currently proposed in the Draft B documents. The aquifer tube sampling activities were initiated on June 28. The well-sampling activities were also scheduled and have been initiated with 17 of 26 wells sampled as of June 28. The remaining wells are expected to be sampled by July 9, 2010.

- A SAP was developed to allow for additional “upwelling” (river porewater) sampling to be conducted from the river bottom along specific portions of the 100-N river shoreline. This document is in the process of being released as a Draft A for transmittal to RL and subsequent submittal to Ecology.
- The Pacific Northwest National Laboratory (PNNL) core-sampling analytical report has been finalized and is expected to be issued in mid July. All results have been incorporated into the final Jet Injection test report, which is near finalization.
- A Treatability Test Plan (TTP) has been drafted to allow for a larger, demonstration-scale test of the Jet Injection technology in the vadose zone over the existing 300 foot apatite barrier. Internal reviews have been performed, and the documented is now being produced as a Draft A for regulatory review. Comments are being incorporated for a full CHPRC internal review.
- A TTP is also being drafted to allow for a “hot” test of the Phytoextraction technology along the river shoreline at the existing 300 foot apatite barrier. Internal reviews have taken place, and comments are being incorporated for RL and subsequent regulatory reviews.
- Groundwater samples have been collected from 95 of the newly completed 171 wells, with all shallow completion wells now sampled during the recent high river stage conditions. Additional GW sampling will continue.
- Total petroleum hydrocarbon (TPH) studies are continuing with PNNL as planned. The first draft of their report has been provided for a limited internal review. More recently generated data must be included before this report can be finalized. This work will be complete this summer.

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

- HR-3 operated at near normal levels as the H Area aquifer test continued. Two RUM wells are being reconfigured for long-term operation as extraction wells. The system is also being modified to remove an extraction well (199-H-4-3) impeding WCH excavation, and reconnect well (199-H-3-4) as an extraction well to capture the southeast flank of the plume.
- DR-5 is operating while efforts continue to optimize the regeneration schedule, since the large amounts of hexavalent chromium for the newly added hot spot extraction well are loading the ion exchange resin more quickly than experienced in previous operations.
- Design activities continued on the HX Pump-and-Treat facility, with the 60% design review held in mid-June. Work has commenced on road crossings and road improvements.
- Design efforts continue, after a 60% design review for the in-situ bioremediation system was complete in mid-June.
- The final round of spatial and temporal groundwater sampling was completed.

#### **300 FF-5 Operable Unit – Base**

- An engineered lithology has been emplaced at the bottom of the existing excavation at 618-1 in June and plans have been endorsed verbally by EPA to use it in subsequent treatability tests to evaluate remediation technology delivery mechanisms.

#### **Central Plateau**

##### **200-UP-1 Operable Unit – Base**

- The Decisional Draft of the 200-UP-1 OU RI/FS Report was provided to DOE on June 24, 2010 and the Decisional Draft 200-UP-1 OU Proposed Plan was provided on July 1, 2010 for DOE review. DOE and Regulator status meetings on the RI/FS Report were held June 24, 2010 and June 29, 2010, respectively.

**200-IS-1 Operable Unit – Base**

- The revised Closure Plan, SAP, SEPA Checklist, and petition for LDR (Land Disposal Restrictions) variance for the Hexone Storage and Treatment Facility were finalized and transmitted to RL June 9. Once transmitted from RL to Ecology, these documents are expected to satisfy the proposed TPA Milestone *M-037-01, Submit Revised closure Plan to for the Hexone Storage and Treatment Facility (276-S-141/142) TSD Unit, Due December 31, 2010*, as identified in the March 2010 Tentative Agreement.

**200-PO-1 Operable Unit - Base**

- The Draft A 200-PO-1 RI Report was transmitted to the regulators on June 10

**200-ZP-1 Operable Unit - Base**

- Eleven of the 14 groundwater extraction wells are on line pumping water at a rate of approximately 440 gpm. Extraction well 299-W15-36 will be kept offline due to very low flow rates. Extraction wells 299-W15-34 and 299-W15-765 are offline due to electrical problems that are currently being assessed.
- Extraction wells 299-W11-45 and 299-W11-46 are both running and are pumping at a combined rate of ~26 gpm to the Effluent Treatment Facility (ETF). A reduced flow rate is now required through the end of August 2010 to allow ETF to drain one of their other basins which is full.
- Drilling and sampling of 15 permanent extraction/injection wells are now complete. Currently drilling EW-6, IW-6, and IW-13 which are currently at a depth of approximately 187, 406, 287 feet respectively.
- EPA comments have been addressed on the Draft A Performance Monitoring Plan and the Rev. 0 plan is currently being issued.
- The hookup of the new ZP-1 extraction well 299-W15-225 (EW-1) is complete.
- A test plan for determining the effectiveness of using activated carbon as a less expensive way of removing Tc-99 from groundwater has been issued and laboratory testing has started.
- EPA comments on the Operations and Maintenance Plan for the 200 West Area Groundwater Treatment Facility have been addressed. The Rev. 0 document will be issued in the next few weeks.

**200-PW-1 Soil Vapor Extraction (SVE) - Base**

- Both PW-1 active SVE units are operating. Passive SVE operations are also ongoing.

**Regulatory Decisions and Integration - Base**

- 200-MW-1 Feasibility Study:
  - EPA submitted comments in May; comment responses were provided to EPA in June.
  - EPA acknowledged that comments have been adequately resolved.
  - The response to comments from the Tribal Nations is in development.
- 200-PW-1/3/6 Feasibility Study:
  - FS modified to reflect changes associated with the groundwater protection
  - Completed cost estimate to reflect substantial post ROD sampling for TC-99 and nitrate
- Completed laboratory analysis for the soil samples collected from the 200-CW-1 Outer Area Ponds and Gable Pond pipeline
- Hexone Storage and Treatment Facility Closure Plan and SAP:
  - Resolved RL comments on Closure Plan and SAP (Rev 0)
  - Closure plan and SAP documents have been transmitted to RL

**Deep Vadose Zone Treatability Test Project - Base**

Work continues on the deep vadose zone project including the pilot test, desiccation lab testing, uranium sequestration, and soil flushing and grouting.

The following summarizes key accomplishments for June:

- The Field Test Plan and associated Sample Analysis Plan for the Desiccation Pilot Test was transmitted to EPA for review and comment
- Fabrication and assembly of components for the Desiccation Pilot Test extraction and monitoring systems has been initiated
- The DQO for the Uranium Sequestration work was completed this month and will be revised following input from the associated Expert Review Panel scheduled for July 13-14, 2010.

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

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

- Initiated demolition activities on 224U
- Completed demolition of 203UX

U Canyon Demolition and Cell 30 Disposition

- Equipment size reduction activities are complete with 95% of the large items dispositioned
- A Statement of Work (SOW) has been placed for the cask needed to ship the T-10 tank to T Plant
- A SOW and Request for Proposal have been placed for grout supply and conveyance. Bids are due July 12, 2010.

200E Project

- Completed asbestos abatement in 272E
- Completed demolition of MO405 and 2701M
- Completed Cold and Dark activities in 284E
- Continued asbestos abatement activities in 284E
- Initiated demolition of 272E and 2734E

209E Project

- Continued 209E characterization and Cold and Dark planning activities

200W Project

- Began characterization activities

**ARRA – OUTER ZONE D&D**

BC Controlled Area Waste Site Remediation

- Remediation using super dump trucks continued with approximately 143,000 tons cumulative to date of soil removed and transferred to ERDF
- Remediation within BC Controlled Area has been impacted by the migratory birds nesting in Zone A and Zone B. A BC Controlled Area Soil Contamination Migratory Bird Migration Strategy (dated May 2010) was developed and has been implemented.

200-CW-3 Waste Sites

- Excavation of the second remove, treat, and dispose (RTD) site (216-N-4) continued in June. Approximately 36,300 tons of soil has been removed and transferred to ERDF.

- The response action completion documentation for waste site 216-N-1 is near completion with RL review to begin the first week of July.

#### MG-1

- The nine waste sites listed below have been remediated/evaluated with the reclassification approved
  - 600-285 PL, 600-286-PL, 600-287-PL, 2607N, 2607P, 2607R, 200-N-3, UPR-200-N-1, UPR-200-N-2
- Reclassification/Closure documentation for the waste site listed below has been submitted for approval.
  - 200-E-101, 6607-2, 200-E-110 and UPR-600-21
- The five waste sites listed below were originally planned Confirmatory Sampling No Further Action (CSNFA), however sampling of the sites indicated some excavation will be required
  - 600-36, 600-38, 600-218, 200-W-33, and UPR-600-12
- Analysis of sampling data for 600-51 indicates RTD is not required. Closure documentation for site 600-51 has been reviewed by RL.
- Initial excavation for site 600-40 was completed and initial verification samples were collected. The samples indicated additional excavation was required. This excavation has commenced and in-process samples are being evaluated.
- The Remedial Action Work Plan (RAWP) was updated to include 37 waste sites added with the approved Action Memorandum (AM), has been reviewed by RL and was transmitted to Ecology for review.
- Verification sampling of site 600-36 was performed in February to determine whether remediation was complete. The sample results are being evaluated.
- CSNFA sampling of site 600-262 was performed at depth utilizing an auger. Sampling analysis indicates that no further field activity is required, closure documentation is being prepared.
- The Sampling Instruction (SI) was issued for site 600-37 and sampling was performed. Evaluation of the samples indicated no further action is required, closure documentation is being prepared.

#### ALE D&D

- Continued debris pile removal on lower ALE
- Continued demolition on the upper ALE facilities. Completed demolition of 6652D and 6652T.

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

##### **ARRA**

##### **Facilities**

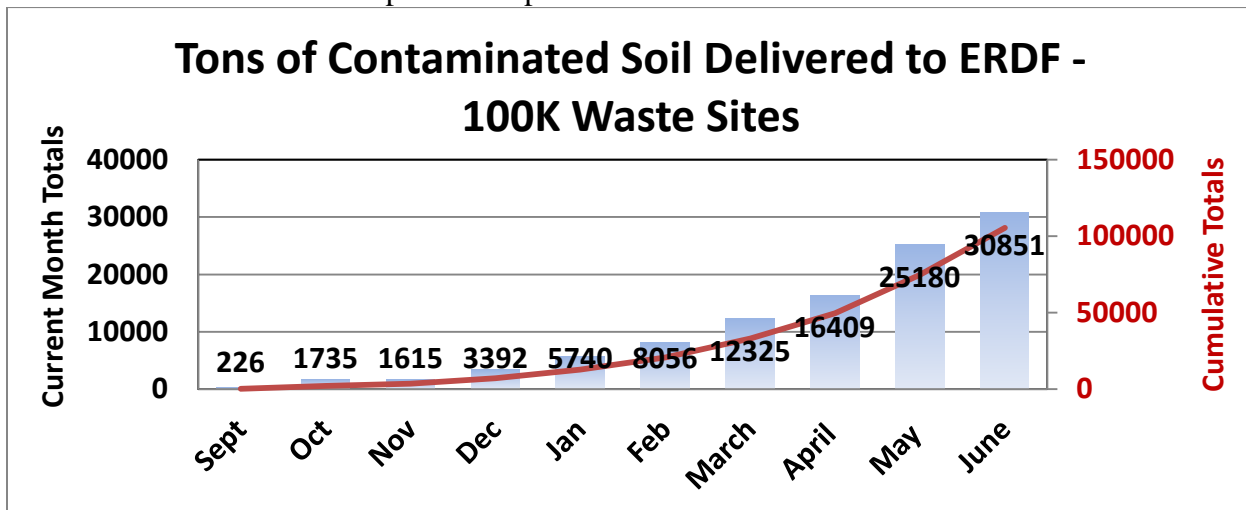
- Continued project definition of 105KE Reactor Disposition. Deactivation work was completed. Glycol removal from tunnel completed.
- The 115KE (Gas Recirculation Building) sampling in Room 1 was completed. Additional radiation control sampling is in process.
- The 116KE (Reactor Exhaust Stack) demolition work package continues. Explosive demolition is planned for late July.
- Demolition planning for the 117KE (Exhaust Air Filter Building) continues. This building will be demolished after 116KE.
- Below-grade asbestos removal continued in the 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building). The 1706KE asbestos

removal should complete in late June, with the 1706KER asbestos removal to follow by mid-July.

- Below-grade demolition of the 183.1KW (Head House) resumed in June along with soil remediation, and is anticipated to complete in mid July
- Demolition continues on the 183.2KW (Sedimentation Basin) floor. The 183.2KW (South) wall adjacent to the 183.1KW and the West footers remain and should be removed by late August. The concrete rubble is being stock-piled alongside the excavation. The stockpiled concrete will be utilized as clean fill at U Plant (originally the concrete was slated for disposal at ERDF). This saves ERDF disposal costs, space in ERDF, and avoids U Plant having to procure clean fill.
- Glycol removal is progressing well. Glycol has been drained from all but 115KW, 165KE, 165KW, 105KE, and 105KW facilities.
- Continued demolition of the 183.3KW (Filter Basin). All of the West side and half of the East side have been demolished. Once completed, the pipe galleries will be removed. Demolition should finish in late August.
- Demolition of the main 183.7KW (Tunnel) continued with the ceiling and East wall gone. Demolition should finish in early August.
- Characterization of the 183.1KE (Head House) should complete in July. Deactivation was placed on hold and will complete after major electrical and water system upgrades are completed this summer.
- 183.4KW and 184.3KE (Clear well) initial characterization walk down is complete and characterization sampling will be initiated in July.

**Waste Sites**

- Remediation continued on waste sites within 100K Area. Production rates increased again due to increased crew sizes and increased experience on the jobsite. There is also increased contaminated soil to clean as overburden soil ratios have been higher than anticipated. This caused more waste disposal than planned.



**HVAC Project**

- Installed 320 feet of interior ducting with 380 feet remaining
- Continuing shop fabrication and prep work for duct runs
- Completed ground clearing activities for the Exterior HVAC components

**Electrical Project**

- A9 Electrical subcontractor completed installation of skid components, skid frames, and associated breakers for PF1N, PF1S, PF2, PF3N and PF3S
- Completed 73% of underground conduit. Installed 800 lf of the 1,100 lf.
- Mobile substation onsite factory inspection was performed with AVS
- Resolved 13.8KV line installation with MSA Electrical Utilities along the west side of 105KW by routing the utility underground

**Water Project**

- Continued EPC Construction Services trench excavation, pipe install and backfill around 105KW (Fire Loop System) resulting in 41% complete with 1,780 lf of the 4,340 lf installed
- Completed Phase I installation and performed pressure testing for West Side firewater and potable water piping the inside fence
- Construction subcontractor started trench excavation, pipe install and backfill on the balance of firewater and potable piping inside the fence. Installed 2,342 lf of 4 inch PW and 2,440 lf of 12 inch FW including four road crossings resulting in 55% complete.
- Completed installation of building floor drains, trenches and grating. Successfully pressure tested underground piping and offloaded the Water Treatment building structural steel.
- Received the pre-engineered metal building and water tank for the Water Treatment Project
- Began sludge vacuuming in the East Bay of the K West Basin. Section 1 in the East Bay was completed in June. Performed preventative maintenance of overhead crane to support MCO proficiency test in August.

**Base****Facilities**

- Completed Core Characterization (Core boring) activities for 105KE Reactor Disposition. EE/CA Decisional Draft and Fact Sheet submitted to RL for review. Supplemental Analysis in review with DOE-HQ.
- Continued characterization and deactivation on 110KW (Gas Storage Facility) and 115KW (Gas Recirculation Building) where the above-grade structure will be taken as one demolition. Both buildings were accelerated from FY 2011.
- 117KW (Exhaust Air Filter Building) was accelerated from FY 2011. The electrical isolation index is in process.
- 118KW (Horizontal Control Rod Storage Cave) was accelerated from FY 2011. Characterization is continuing with one radiation control dose survey remaining. The demolition work package was finished.
- Decontamination has been placed on hold for four buildings which will be removed at one time after the utility upgrades occur this summer. They are the 1717K (Maintenance Transportation Shop), 1717AKE (Electrical Shed), 1724K (Maintenance Shop), and 1724KA (Storage Shed).
- Pumps/right angles/and piping in 182K (Water Reservoir Pump House) were removed and are awaiting disposal in mid-July. The below-grade water reservoir connects directly to 183.4KE clear wells, which provides the service water/fire protection water for 100K. The shut-off valves between these two facilities leak, thus below-grade demolition cannot commence until the new utility systems are operational this summer and the 183.4KE clear well water and pump well are drained.

- The 183KE (Chlorine Vault) preparation for deactivation continues. The vault power needs to be isolated, the Conex to store materials has been ordered, and the demolition work package has been drafted.
- Leased facility MO872 (Radiation Control Trailer) is ready for re-installation in its new location.
- Leased facility MO873 (Craft Trailer) is currently in Pasco having the HVAC replaced, and then this trailer will be relocated to the 200 Area.
- Characterization was completed, and deactivation continues on four K West mobile offices to be removed as a group (MO236/MO237/MO323/MO955). Personnel should move into other offices in late July, accelerating this demolition work from FY 2012.
- After the utilities upgrades finish (towards the end of this summer), a group of facilities will be deactivated. Their initial characterization walk downs have been performed, and characterization sampling should occur in July/August. These facilities are 110KW (Gas Storage Facility), 115KW (Gas Recirculation Building), 183.5KE/183.6KE (Lime Feeder Buildings), 183.7KE (Tunnel), 166AKE (Oil Storage Facility), 166KE/166KW (Oil Storage Vaults), 190KE (Main Pump House), and 165KW (Power Control Building). Once the en-mass deactivation occurs, the demolitions will be performed on a staggered schedule.

#### Waste Sites

- Excavation is complete on 100-K-4 (Group 2 Waste Site) and pending finalization of the Remedial Action Report.

## MAJOR ISSUES

### RL-0011 Nuclear Materials Stabilization and Disposition of PFP

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

**Corrective Action** – Testing of the Aspigel® product to determine its suitability for use as a supplemental decontamination agent has been completed. PFP Engineering has released the technical basis document for the safe packaging and transport of Aspigel® in waste form. Additionally, the nuclear safety group is currently finalizing the hazards analysis and the criticality organization is completing the CSER; the expected release date of both documents is mid-July. PFP will hold training on the Aspigel® process in mid-July for the work crews.

### RL-0013 Waste and Fuels Management Project

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

**Corrective Actions** – Strategy developed and agreed to with Senior Management, HAMTC, and program/MSA support to implement new shift/overtime strategy

**Status** – 451m<sup>3</sup> removed, 431m<sup>3</sup> shipped. Recovery schedule supports TPA tentative agreement of 2,000m<sup>3</sup> by September 30, 2011.

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

**Issue Statement** – Migratory birds cannot be disturbed when nesting in the habitat on waste sites requiring remediation, such as BC Control Area.

**Corrective Action** – For smaller waste sites, work is being rescheduled to work around sites with nesting birds. For the BC Control Area, a migratory bird mitigation strategy was prepared and approved to allow work in areas where birds are not nesting.



**Status** – Work on waste sites 600-275, 600-228, and 600-220 has been deferred. The mitigation strategy has been implemented at BC Control Area and work is continuing at a reduced rate in locations not impacting nesting birds.

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

**Issue Statement** – Extent and severity of Contamination in the UPR-100-K-1/100-K-42 waste site (soil associated with the 105KE Fuel Storage Basin leak) is much higher than anticipated. The significance of this higher than anticipated contamination is that the work must be conducted under nuclear hazard category three controls, productivity will be at a diminished rate, and a larger volume of contaminated soil will need to be removed.

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

**Status** – An REA will be developed for this situation and it will be followed up by a BCR. D4 is currently assessing the options for removing the significant contribution of contaminants associated with the discharge chute. Work is on hold until an appropriate path forward is determined.

**Issue Statement** – Necessary clean-up of contamination spread during basin removal was not anticipated. Impacts have not been fully assessed because D4 has not completed demobilization. Additional quantities of contaminated materials have been encountered.

**Corrective Action** – Add additional cover to areas contaminated by D4 equipment staging and decontaminate as the areas become available. Those covered area soils are being excavated and shipped for disposal. This volume and schedule will be included into the baseline change request (BCR)/Change Proposal (CP) associated with the UPR-100-K-1 issue above or subsequent BCR/CP as needed.

**Status** – The associated excavated volume will be captured under the BCR discussed above (higher than anticipated contamination levels). The remainder must wait until D4 completes decontamination of equipment and relinquishes the remaining area for remediation. Work of removing the additional contamination is in progress.

**Issue Statement** – Approximately ten new sites have been discovered where radiological or chemical contaminants are being found above cleanup standards.

**Corrective Action** – Two sites were added as part of the Performance Measurement Baseline, Rev. 2; the remainder, along with any future sites, will be added to the contract via Change Proposal process. Additional sites will be added via BCR/CP processes as they are encountered and defined.

**Status** – The BCR/CP process has been initiated (e.g., cost estimates and modeling have begun) for these newly discovered waste sites. An Advanced Work Authorization was issued for one new site and three sites with additional contamination above the clean-up standard. Work is anticipated to start in July on the first of these new sites.

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

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

**Status** – BCR/CP process continues.

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

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

**Status** – Schedule developed to identify outages for electrical and water projects and provide time for MSA EU and 100K Operations to minimize impacts.

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

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

**Status** – Resources identified to support procedural development and schedule developed to track progress.

**Issue Statement** – Late delivery of three air handling units and mobile electrical substations will impact construction completion.

**Corrective Action** – Project Manager, buyer's technical representative, and Procurement have discussed late delivery of the air handling units with vendor and manufacturer. The Construction Manager is working with the site subcontractor responsible for installation to determine work around to minimize schedule impacts.

**Status** – The air handling units are scheduled for delivery on August 5, 2010. Vendor is planning delivery of first transformer August 24, 2010 and the second transformer September 1, 2010.

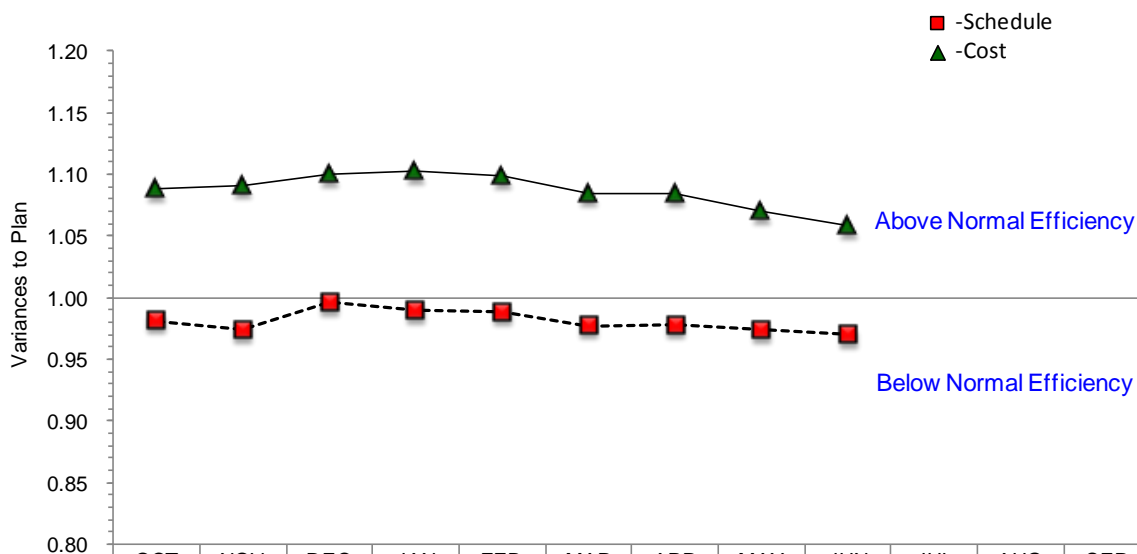
**Issue Statement** – Installation of HVAC inside of 105KW is taking longer than scheduled due to complexity of installation.

**Corrective Action** – Working additional hours to minimize schedule impact

**Status** – Continue monitoring EPC's progress on HVAC installation activities.

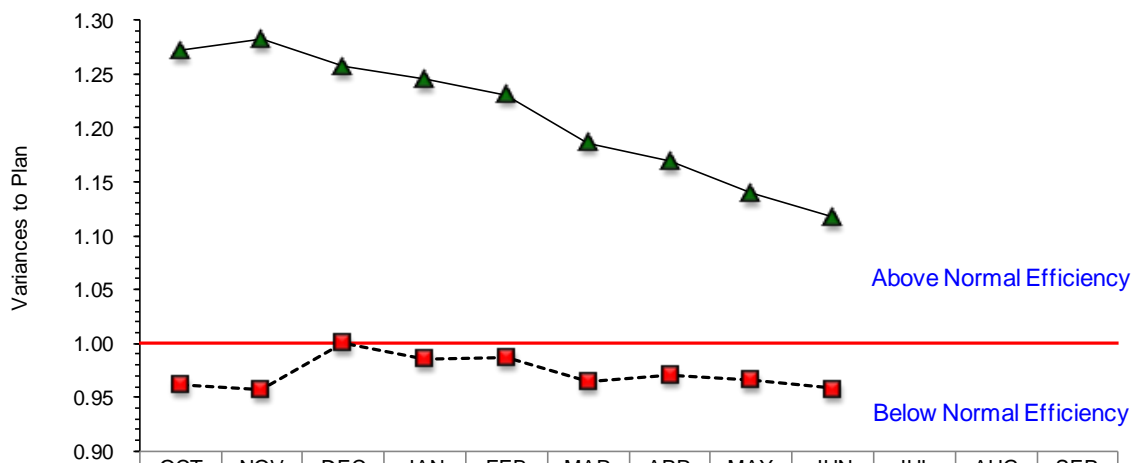
## EARNED VALUE MANAGEMENT

### Schedule and Cost Performance Indices



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.91	0.91	1.29	0.92	0.97	0.84	0.98	0.92	0.91			
MONTHLY CPI	1.12	1.12	1.20	1.14	1.05	0.91	1.08	0.88	0.89			
--■-- CTD SPI	0.98	0.97	1.00	0.99	0.99	0.98	0.98	0.97	0.97			
—▲— CTD CPI	1.09	1.09	1.10	1.10	1.10	1.08	1.08	1.07	1.06			

### Schedule and Cost Performance - ARRA

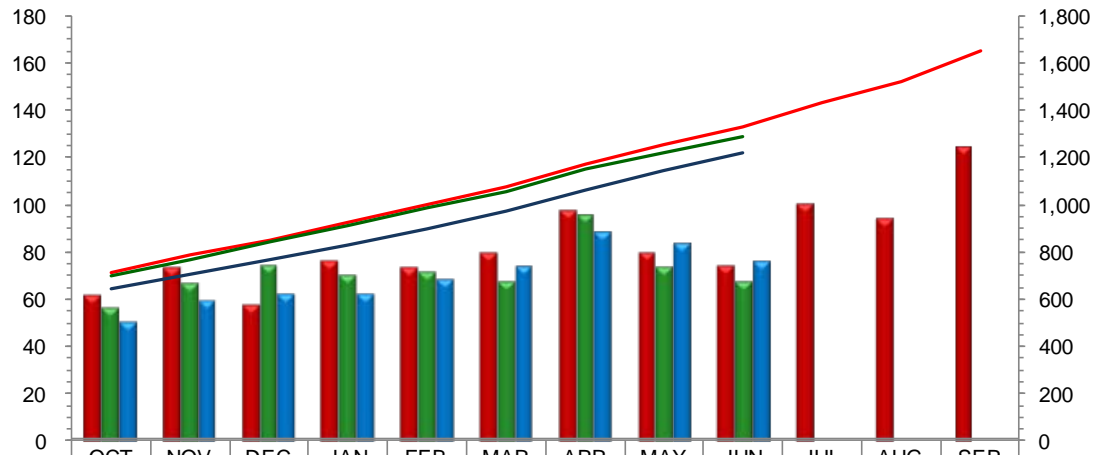


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.92	0.93	1.39	0.90	1.00	0.81	1.01	0.92	0.86			
MONTHLY CPI	1.40	1.33	1.12	1.17	1.14	0.89	1.07	0.90	0.90			
--■-- CTD SPI	0.96	0.96	1.00	0.99	0.99	0.97	0.97	0.97	0.96			
—▲— CTD CPI	1.27	1.28	1.26	1.25	1.23	1.19	1.17	1.14	1.12			

### Schedule and Cost Performance

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)

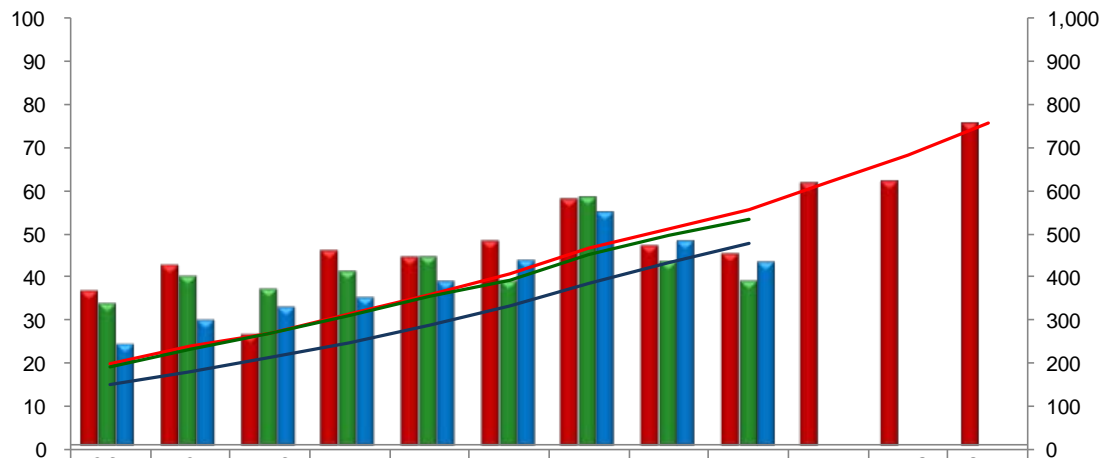


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	62.1	73.4	57.7	76.8	73.7	80.0	97.6	80.2	74.3	100.3	94.6	124.4
MONTHLY BCWP	56.4	66.6	74.7	70.6	71.7	67.4	95.9	73.6	67.4			
MONTHLY ACWP	50.3	59.6	62.1	62.0	68.4	73.9	88.5	83.3	75.5			
CUMULATIVE BCWS	715.5	788.9	846.7	923.5	997.2	1,077.2	1,174.9	1,255.0	1,329.3	1,429.5	1,524.1	1,648.6
CTD BCWP	701.8	768.4	843.1	913.7	985.4	1,052.8	1,148.7	1,222.3	1,289.8			
CTD ACWP	644.8	704.4	766.5	828.5	896.9	970.8	1,059.3	1,142.5	1,218.0			

### Schedule and Cost Performance - ARRA

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	36.7	42.9	26.6	46.0	44.7	48.4	58.0	47.1	45.2	61.8	62.1	75.3
MONTHLY BCWP	33.9	39.9	37.1	41.3	44.5	39.1	58.5	43.6	39.0			
MONTHLY ACWP	24.3	30.0	33.1	35.1	39.0	43.9	54.8	48.4	43.4			
CUMULATIVE BCWS	198.2	241.1	267.7	313.7	358.4	406.8	464.8	511.9	557.1	618.9	681.0	756.3
CTD BCWP	190.8	230.7	267.8	309.0	353.6	392.6	451.1	494.7	533.6			
CTD ACWP	150.0	179.9	213.1	248.2	287.2	331.1	385.9	434.4	477.8			

## Performance Analysis – June

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

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - PFP D&D	8.2	5.8	6.6	(2.4)	(0.8)
RL-0013 - MLLW Treatment	1.5	0.5	0.5	(1.0)	(0.0)
RL-0013 - TRU Waste	7.4	6.5	7.8	(0.9)	(1.4)
RL-0030 - GW Capital Asset	6.9	8.6	5.4	1.6	3.2
RL-0030 - GW Operations	4.4	2.4	2.6	(2.0)	(0.1)
RL-0040 - U Plant/Other D&D	5.4	5.1	5.2	(0.3)	(0.1)
RL-0040 - Outer Zone D&D	2.5	2.9	3.9	0.4	(0.9)
RL-0041 - 100K Area Remediation	8.8	7.0	11.4	(1.7)	(4.4)
<b>Subtotal</b>	<b>45.2</b>	<b>39.0</b>	<b>43.4</b>	<b>(6.2)</b>	<b>(4.4)</b>
<b>Fee</b>			<b>1.3</b>		
<b>Total</b>			<b>44.7</b>		

### ARRA

The Current Month unfavorable Schedule Variance (-\$6.2M/-13.7%) reflects:

- The RL-0011 negative variance (-\$2.4M) is a result of the following:
  - (-\$2.1M) In early June, a stop work was initiated related to programmatic changes to the beryllium program and the implementation of revised beryllium related procedures. For June, this resulted in a loss of 14 working days as well as 26 shifts of overtime across multiple D&D accounts.
  - (-\$0.3M) D&D 242-Z – Obstacles were encountered that resulted in the inability to perform ten scheduled entries into the 242Z facility. Obstacles included rain water intrusion, outside support personnel not having adequate respiratory training, breathing air odor issue, and PRF contamination event. Schedule recovery is expected to be realized late in FY 2011.
- The RL-0013 negative variance (-\$2.0M) reflects the following subproject performance:
  - MLLW Treatment – 435.1 Compliance waste processing efficiencies in previous months, coupled with fewer MLLW shipments than planned to date due to delay in receipt of waste from the Retrieval Project, and delay in procurement of a Large A Type container due to lack of qualified suppliers.
  - TRU Waste – TRU Retrieval restart activities started later than planned and Next Gen Retrieval overstated performance in previous month, partially offset by TRU Repackaging efficiencies and a point adjustment for RH/Large Package Capability.
- The RL-0041 negative variance (-\$1.7M) is due to the following:
  - (+\$0.4M) 100K Area Project (Facilities and Others): Utilities (+\$0.9M) with execution of field work on the electrical and water projects to recover schedule slippage; Project Management

- (+\$0.4M) due to the purchase of four dust suppression machines earlier than planned; and Facilities (+\$0.3M) from 183KW Sedimentation Basin Complex recovering schedule from prior months. This is offset by a negative schedule variance in K West Deactivation (-\$0.5M) due to sludge vacuuming status being overstated in April, so June status was held to the same as April in order to better reflect actual progress; and 105KE Reactor (-\$0.7K) due to asbestos removal not getting the required resources needed to complete the work and the 30'x30' door opening not starting per plan.
- (-\$2.1M)Waste Sites: Various positive and negative variances contributed to this variance, but the significant negative variances consist of (-\$1.5M) associated with encumbered access due to D4 interference including the inability to progress the 100-K-42 Fuel Storage Basin and 100-K-3 pipeline near 1706KE; approximately (-\$0.7M) due to suspension of waste site work while the same crew completed removal of the 183.1KW structure; and an additional (-\$1.3M) resulting from the inability to start work on the 107KW flood plain (100-K-63) due to the Migratory Bird Act.
  - Primary contributors to the RL-0030 negative variance (-\$0.3M) that exceed reporting thresholds are as follows:
    - ARRA RL-0030.R1.1 GW Capital Asset – variance is primarily due to installation of equipment inside the DX process and M2 transfer buildings ahead of schedule (+\$0.4M), and the installation of HDPE piping, civil/site work for biological and radiological process facilities, incorporation of O&M Plan comments, and contractor mobilization(+\$0.7M). These ahead of schedule activities will help ensure the project meets completion deadlines.
    - ARRA RL-0030.R1.2 GW Operations – variance is a result of poor performance by the construction contractor. Design tasks that are behind schedule due to engineering resources working multiple priorities. The project will be reporting CM negative SV and negative CV for the next three to four periods (-\$1.6M).
  - The RL-0040 positive variance (+\$0.1M) reflects the following subproject performance:
    - ARRA RL-0040.R1.1 U Plant/Other D&D - The 200E Administration Project (+\$0.3M) due to completing demolition of 2701M, MO405 and 2734EA ahead of schedule. This is offset by the U Canyon Project (-\$0.2M) due to issues with placing the Grout Contract and the U Ancillary Project (-\$0.2M) experienced delays. Also, the Capital Equipment (-\$0.2M) is behind due to delays in receiving the Heavy Haul Truck.
    - ARRA RL-0040.R1.2 Outer Zone D&D - The variance is due to increased contamination and greater than planned volumes of soil being remediated in BC Control Area Zone A. Additionally, nesting and migratory bird impacts have been realized; contributing to the unfavorable schedule variance in BCCA (-\$0.7M). Backfill of CW-3 site 216-N-1 has been delayed pending regulatory approval (-\$0.4M). This is offset by a positive variance for work performed in CW-3 and MG-1 operable units (\$0.4M). Implementation of BCR (BCR-PRC-10-041RO ARR-R.05) reduced ARRA budget for design work and moved remaining budget into BASE timeframe for outer area barriers (+\$1.1M).

The Current Month unfavorable Cost Variance (-\$4.4M/-11.4%) reflects:

- The RL-0041 negative variance (-\$4.4M) is due to the following:
  - (-\$4.7M) 100K Area Project (Facilities and Others): Facilities (-\$1.8M) on the 183KW Sedimentation Basin Complex is due to very little BCWP earned (this will correct itself in July) and increased 1706KE/KER costs due to removal of equipment/piping in the substructure that was not included in the estimate; Project Management/MSA Assessments (-\$1.1M) due to general site cleanup labor being utilized on site cleanup work scope, and higher than planned receipt of G&A attributed to the PBS overrun this month (allocation based on direct costs); 105KE Reactor (-\$0.6M) due to overstatement of performance for hazardous material removal in May will self correct in July and 30'x30' subcontract labor not starting work as planned but vendor accrual was submitted; K West Deactivation (-\$0.8M) due to June sludge vacuuming performance being held to the same as April (see SV discussion) although vacuuming activities were performed; and Utilities (-\$0.4M) primarily due to subcontractor costs for installation of the firewater and potable water lines being actualized in the current month.
  - (+\$0.3M) Waste Sites variance is due to several insignificant items.
- The RL-0013 negative variance (-\$1.4M) reflects the following subproject performance:
  - RL-0013 MLLW Treatment – Mixed Low Level Waste is incurring costs associated with shipments/return shipments of volume reduction from PermaFix Northwest and PermaFix Environmental (performance claimed in prior period), partially offset by ERDF time card corrections.
  - RL-0013 TRU Waste – Next Generation Retrieval performance overstated in previous month, partially offset by efficiencies in TRU Characterization and Shipping.
- The RL-0040 negative variance (-\$1.0M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D - The U Ancillary Project overrun of (-\$0.5M) is due to using more resources to prepare the area around the perimeter in order to minimize the potential of spreading contamination, and higher Usage Based Costs (-\$0.3M) for fleet due to incorrect charges to 100K for Fleet G&A (-\$0.4M) costs This is offset by underruns in 200E Adm Project (+\$0.7M) due to utilizing less resources for demolition of three buildings and U Canyon Project (+\$0.5M) accomplishing canyon deck clearing more efficiently.
  - ARRA RL-0040.R1.2 Outer Zone D&D - variance is primarily associated with the greater depth of contamination in the BC Control Area and the resulting larger volume of soil requiring removal and disposal at ERDF. Additionally, nesting and migratory bird impacts have been realized contributing to the unfavorable cost variance in BCCA. Professional consultation services were provided to help define areas of remediation that could still be worked without disturbing the migratory birds resulting in additional costs (-\$1.0M).
- The RL-0011 negative variance (-\$0.8M) is due to the following:
  - (-\$0.6M) Inability to perform work due to work stoppages, while labor costs for the field work teams remained relatively constant. This resulted in a loss of 14 working days.
  - (-\$0.2M) D&D 242Z – D&D Team personnel continue to charge while working through water intrusion issues, adequate respiratory training and breathing air odor issue.
  - Recovery – this negative cost variance is expected to continue through FY 2011 while corrective actions related to work stoppage are implemented. The life cycle cost performance is expected to decline due to the need for utilization of increased overtime to recover schedule associated with stop work and safety stand-downs.

- The primary contributors to the RL-0030 positive variance (+\$3.1M) that exceed reporting thresholds are as follows:
  - ARRA RL-0030.R1.1 GW Capital Asset - 100-HR-3 Operable Unit (+\$0.9M) due to efficient procurement and installment of HDPE pipe and road crossings and equipment installation inside the M2 transfer building, and 200-ZP-1 Operable Unit (+\$2.3M) due to a point adjustment experienced with the implementation of BCR-PRC-10-041R0 “ARRA Reapportionment June 2010”. In addition, savings were achieved in installation of High Density Polyethylene (HDPE) piping.
  - ARRA RL-0030-R.1.2 GW Operations - Well Drilling (+\$0.4M) due to efficiencies obtained in well decommissioning activities. Wells are being decommissioned for less than planned. The PBS RL-30 UBS, G&A, and DD negative variance (-\$0.4M) is discussed in Appendix C.

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

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	3.5	3.7	3.3	0.2	0.4
RL-0012 - SNF Stabilization & Disp	5.8	5.3	6.2	(0.5)	(0.9)
RL-0013 - Solid Waste Stab & Disp	5.8	6.5	8.2	0.6	(1.7)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	11.8	10.7	11.5	(1.1)	(0.8)
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	0.8	1.2	1.3	0.4	(0.1)
RL-0041 - Nuc Fac D&D - RC Closure Proj	1.2	0.9	1.5	(0.2)	(0.5)
RL-0042 - Nuc Fac D&D - FFTF Proj	0.1	0.1	0.1	0.0	(0.0)
<b>Subtotal</b>	<b>29.1</b>	<b>28.5</b>	<b>32.1</b>	<b>(0.6)</b>	<b>(3.7)</b>
<b>Fee</b>			<b>1.4</b>		
<b>Total</b>			<b>33.5</b>		

### Base

The Current Month unfavorable Schedule Variance (-\$0.6M/-2.2%) reflects:

- The primary contributor to the RL-0030 negative variance (-\$1.1M) is within the 100 HR-3 Operable Unit (-\$0.9M) due to 1) delays in HX design activities which have impacted field work; 2) distribution of electricity and piping, 3) erection of HX process building, 4) and full scale bioremediation. It is anticipated that schedule will be recovered and HX will finish on schedule.
- The RL-0012 negative variance (-\$0.5M) is due to the STP variances include contracting delays in the Phase 2 scope as terms and conditions are being negotiated (-\$0.2M) and delayed start of both Multi-Canister Overpack (MCO) subcontracts and MCO processing upgrades, while management determinations and engineering analysis completed (-\$0.3M). Recovery actions include focused attention on the subcontracts for the Phase 2 technology testing and continued focus of 100K engineering on the Integrated Water Treatment System (IWTS) and MCO system refurbishments. Joseph Oats Corporation was the only vendor to bid on the MCO fabrication subcontract. Once the



Acquisition Verification Services (AVS)/Quality Assurance (QA) assessment has been completed, this contract can be awarded.

- The RL-0013 positive variance (+\$0.6M) is due to TRU Retrieval schedule recovery for Kelly Klosure installation, partially offset by TRU Repackaging RH/Large Box shipments of low gram TRU waste delay pending contract establishment due to audit requirements.
- The RL-0011, RL-0040, RL-0041 and RL-0042 variances (+\$0.4M) are within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$3.7M/-12.9%) reflects:

- The RL-0013 negative variance (-\$1.7M) is due to the assessments and use of Mission Support Alliance (MSA) service continued above plan, early receipt of the cost for OCRWM records storage without corresponding performance.
- The following variances contributed to the RL-0012 negative variance (-\$0.9M):
  - The STP negative variance (-\$0.2M) was generated by costs associated with the procurement of the ECRTS test articles, which have been processed and are now being fabricated and received at the MASF facility. No recovery actions required as this is only a timing issues associated with the delivery of the test articles.
  - The 100K Area negative variance (-\$0.2M) is within variance thresholds. No recovery actions required.
  - Project Services & Support: (-\$0.5M) higher than planned receipt of G&A attributed to the PBS overrun this month (allocation based on direct costs).
- The primary contributors to the RL-0030 negative variance (-\$0.8M) that exceed reporting thresholds are as follows:
  - 100-KR-4 (-\$0.4M) due to resin regeneration cost and the need to procure some additional resin.
  - 200-ZP-1 Operable Unit (+\$0.3M) due to WSCF and groundwater modeling costs that were delayed. No significant impact to total overall project cost.
  - Regulatory Decision/Closure (+\$0.8M) due to efficiencies realized in Multi-Incremental Sampling activities and the preparation of the proposal to incorporate the tentative agreement. The efficiencies are reflected in the CTD positive cost variance.
  - PBS RL-30 UBS, G&A, and DD (-\$0.9M) the CTD negative cost variance is discussed in Appendix C.
- The RL-0041 negative variance (-\$0.5M) is due to the following:
  - (-\$0.4M) 100K Area Project (Facilities and Others) variance is due to: 1) 105KE Core Removal (-\$0.1M) attributed to core removal design mock-up testing not estimated to be completed as part of preliminary design deliverable; 2) UBS, G&A, and DD (-\$0.2M) higher than planned receipt of costs attributed to the PBS overrun this month (allocation based on direct costs); and 3) Facilities (-\$0.1M) of numerous small charges.
  - (-\$0.1M) Waste Sites variance is due to work performed on closure documents that are lagging on schedule.
- The RL-0011, RL-0040 and RL-0042 variances (+\$0.3M) are within reporting threshold.

## Performance Analysis – Contract to Date

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

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost			
RL-0011 - PFP D&D	120.0	113.4	105.9	(6.6)	7.5	292.3	271.8	20.5
RL-0013 - MLLW Treatment	29.9	30.0	27.9	0.1	2.1	47.7	44.8	2.9
RL-0013 - TRU Waste	87.1	81.9	85.6	(5.2)	(3.8)	238.9	231.6	7.3
RL-0030 - GW Capital Asset	38.4	44.7	39.1	6.3	5.6	182.6	180.9	1.8
RL-0030 - GW Operations	44.0	40.4	28.1	(3.7)	12.2	73.1	65.3	7.8
RL-0040 - U Plant/Other D&D	100.8	97.0	85.0	(3.9)	11.9	197.7	184.2	13.4
RL-0040 - Outer Zone D&D	33.2	31.9	29.3	(1.3)	2.6	86.6	86.1	0.5
RL-0041 - 100K Area Remediation	103.5	94.3	76.7	(9.2)	17.6	190.2	189.6	0.6
<b>Subtotal</b>	<b>557.1</b>	<b>533.6</b>	<b>477.8</b>	<b>(23.4)</b>	<b>55.9</b>	<b>1,309.0</b>	<b>1,254.2</b>	<b>54.9</b>
<b>Management Reserve</b>						<b>30.4</b>		
<b>Fee</b>			<b>31.0</b>			<b>72.1</b>		
<b>Total</b>			<b>508.7</b>			<b>1,411.6</b>		

### ARRA

The CTD unfavorable Schedule Variance (-\$23.4M/-4.2%) reflects:

- The RL-0041 negative variance (-\$9.2M) is due to the following:
  - (-\$7.0M) 100K Area Project (Facilities and Others) - The positive variance is K West Deactivation (+\$4.5M) being ahead of schedule on small debris removal and vacuuming. This is offset by negative variances in Utilities (-\$8.5M) caused by delay in construction activities due to late release of design criteria for contract bid proposal submittals; the Power Isolation Project planned to have the Mobile Substation delivered and the 13.8KV power re-route completed in May, however, due to late contract award, these have been delayed three months; the River Water Infrastructure Isolation Project planned to have construction complete in June but is forecasting completion in August. The Facilities (-\$1.7M) negative schedule variance is because of 183.1KW Head House was paused while adjacent waste remediation was completed, 183.3KW where demolition is taking twice as long due to the footers being 7 to 10 feet thick which was not on the drawings, 115KE/117KE Gas Buildings where work has been paused until the 116KE stack is demolished in July, and 1706KE/KER asbestos removal which had a late start to ensure the below-grade building was structurally sound before asbestos removal was begun. The 105KE Reactor (-\$1.3M) negative schedule variance is due to availability of insulators to complete asbestos removal and the late start of 30'x30' door opening activities.
  - (-\$2.2M) Waste Sites - Primarily related to the restricted access of sites scheduled to be worked. See the "Current SV" for additional details. Also (-\$1.0M) of ERDF disposal schedule variance is being reported.
- The RL-0011 negative variance (-\$6.6M) is primarily due to the following:
  - (-\$3.1M) Safety stand-downs and stop works resulted in loss of 20 working days and 37 shifts of overtime.

- (-\$2.1M) 234-5Z Process Facility and Labs – Emergent scope related to recovery actions from the nitric acid event, a number of false Continuous Air Monitor (CAM) alarms, and delays in enlarging Room 230C door to facilitate glovebox removal. Recovery actions are being developed to address this schedule delay to ensure the milestone for completing glovebox removal is achieved by September 30, 2011. Schedule delay will not be completely realized until the end of fiscal year 2011.
- (-\$0.6M) Facility Modifications – Late completion of chiller design, lack of engineering resources associated with alternate exhaust system design and installation is the cause of this variance. Chiller schedule recovery is expected by the middle of July. A recovery plan for the alternate exhaust system work scope has been evaluated, engineering resources are being assigned, and a recovery schedule is being developed.
- (-\$0.6M) 2736Z/ZB – Work package priorities and engineering paperwork has caused delays in removal of NDA equipment from Room 637 and clean out of process support equipment from Room 641. Expected schedule recovery – November 2010.
- The RL-0013 negative variance (-\$5.1M) reflects the following subproject performance:
  - RL-0013 TRU Waste – Next Generation Retrieval site preparation performed in series versus parallel and staff training delayed due to higher priority Retrieval activities, and delayed progress in TRU Characterization and Shipping due to delays in the initiation of full Central Characterization Project (CCP) characterization, partially offset by efficiencies in TRU Repackaging.
  - RL-13 MLLW Treatment – Accelerated disposal of 435.1 Compliance Waste, partially offset by delayed procurement of Type A Waste container due to lack of qualified suppliers.
- The RL-0040 negative variance (-\$5.2M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D - Due to finalizing the grouting contract for U Canyon (-\$1.2M), delays with the 200E Administration Buildings (-\$1.6M) due to Bio-Hazard and Radiological Control issues, 209E (-\$0.4M), U Ancillary Demolition (-\$0.4M) schedule delays due to asbestos abatement/respirator issues and late delivery of Capital Equipment (-\$0.3M).
  - ARRA RL-0040.R1.2 Outer Zone D&D - Due to the greater depth of contamination in the BC Control Area and the resulting need to excavate and dispose of greater quantities of soil, and the migratory bird impact issues (-\$0.7M). Backfill of CW-3 site 216-N-1 has been delayed pending regulatory approval (-\$0.4M). Deferral of work on 600-275, 600-220, and 600-222 has also contributed to the unfavorable variance (-\$0.4M). This is offset by the ALE Project (+\$0.1M) due to less asbestos abatement activities than planned.
- The primary contributors to the RL-0030 positive variance (+\$2.6M) reflects the following subproject performance:
  - ARRA RL-0030.R1.1 GW Capital Asset - The primary contributor to the CTD positive variance 100-HR-3 Operable Unit (+\$4.8M) is acceleration of procurement and construction for DX. With the implementation of AWA-PRC-10-017, work scope was scheduled to start at the beginning of FY 2010. However, a significant amount of work had already been performed in FY 2009 and that work scope is representative of the CTD positive schedule variance. The project is projected to complete ahead of schedule.
  - ARRA RL-0030.R1.2 GW Operations – The primary contributor to the CTD negative variance Ramp-up & Transition (-\$3.1M) is due to poor performance by the construction contractor. Design tasks that are behind schedule due to engineering resources working multiple priorities. The negative SV is understated. The weighted value of the activities that were used for

measuring performance on the project was based on a preliminary project estimate. As the project has matured, both in design and with awarded contracts, it has become evident this weighting does not accurately reflect the current value of performance for the activities. As a result project performance is overstated.

The CTD favorable Cost Variance (+\$55.9M/+10.5%) reflects:

- The RL-0041 positive variance (+\$17.6M) is due to the following:
  - (+\$12.2M) 100K Area Project (Facilities and Others) The positive variance is from K West deactivation (+\$6.3M) for the debris removal campaign removing smaller debris units first and efficiencies from utilizing experienced staff. The Facilities (+\$5.5M) due to efficiencies of scale for concurrent demolition and \$3M of ERDF disposal cost avoidance. The 105KE Reactor Disposition (+\$1.6M) positive cost variance is attributed to decontamination work utilizing less engineering and administrative staff as planned, and over-estimation of Obstruction Removal Project Management, Site Preparation and Obstruction Removal Design costs. The utility water project is reporting a significant positive CTD cost variance that is offset by the negative CTD cost variance for the electrical power project (+\$1.2M). This is due to proposals from the construction contractors for the water treatment system and dual-use water storage tank costing less than originally estimated. These are offset by a negative cost variance in Project Management (-\$2.4M) where general site cleanup labor has been utilized on general site cleanup work scope.
  - (+\$5.9M) Project Support & Services achieved efficient use of assigned resources.
  - (-\$0.5M) Waste Sites variance is due to waste volumes continuing to increase beyond projections. The cumulative ERDF waste disposal costs have a cost variance due to increasing volumes.
- The RL-0030 positive variance (+\$17.9M) reflects the following subproject performance:
  - ARRA RL-0030.R1.1 GW Capital Asset:
    - 100-HR-3 Operable Unit (+\$3.8M) - due to efficiencies experienced during installation of HDPE piping, road crossings, and installation of equipment in the process and M2 transfer buildings.
    - 200-ZP-1 Operable Unit (+\$2.3M) - due to efficiencies obtained with transition of Denver design engineering personnel from design development to services during construction.
  - ARRA RL-0030.R1.2 GW Operations:
    - Ramp-up and Transition (+\$5.0M) - due to the overstated performance being compared against ACWP resulting in a large positive CV. The project support continues to under-run, but this will be offset by the increased cost for the Internal Fit-out of the four shop/warehouse buildings.
    - Drilling (+\$3.6M) - due to efficiencies/savings obtained in drilling for 100-NR-2, 100-HR-3, and 200-BP-5 wells. Cost efficiencies are being obtained through an aggressive drilling schedule with savings in support personnel, faster drilling methods and the fact that the HR-3 well depths have been less than originally planned. Efficiencies in NR-2 and HR-3 are expected to continue resulting in additional positive cost variance.
    - Regulatory Decision & Closure Integration (+\$1.7M) - due to completing work scope more efficiently than planned; primarily in the areas of multi-incremental sampling, borehole drilling, landfill characterization, and document preparation. Funds will be available to support other activities.

- PBS RL-30 UBS, G&A, and DD (+\$1.6M) - The CTD positive cost variance is discussed in Appendix C.
- The RL-0040 positive variance (+\$14.5M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D - Primarily due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$2.6M), G&A and direct distributable allocations (+\$6.3M), less for Program Management than planned (+\$0.6M), efficiencies at U Canyon (D4) (+\$3.8M), less resources than planned for C-3 Sampling (+\$0.7M) and 200E Administration (+\$1.7M), lower than planned costs for capital equipment (D4) (+\$2.2M), 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) (-\$4.4M), coupled with increased insulator staff and overtime to recover schedule, 209E Project (-\$0.2M) and higher MSA (-\$1.7M) costs for Fleet/Training, etc. Also, in Waste Sites, the variance (+\$0.3M) is primarily related to efficiencies in the initial effort to develop the agreement in principle for the U Plant Zone and efficiencies in project management and other Hanford Contractor support.
  - ARRA RL-0040.R1.2 Outer Zone D&D variance is within reporting thresholds.
- The RL-0011 positive variance (+\$7.5M) is due to the following:
  - (+\$6.0M) Efficiencies recognized on cross-cutting support to the D&D work teams (primarily in solid waste management, project management, NDA, and consumables and subcontracts).
  - (+\$3.2M) Efficiencies experienced in completing facility modifications, early D&D of ancillary buildings, and the removal of asbestos and non-process equipment from 234-5Z.
  - (+\$3.0M) Overhead allocations.
  - (-\$3.1M) Use of overtime and additional usage-based services (MSA Brokered Resources) to recover schedule.
  - (-\$1.6M) Inability to perform work due to the safety stand-downs and work stoppages, while labor costs for the field work teams remained relatively constant.
  - Recovery – this positive cost variance is expected to decline as corrective actions and recovery plans are implemented. Additional overtime and weekend work will be used to mitigate schedule delays and maintain baseline milestones. As a result of near-term actions taken (installation of air conditioning, work simulations, dedicated resources, planning templates), efficiencies are expected during execution of D&D work scope, which will bring cost performance at or better than plan.
- The RL-0013 negative variance (-\$1.7M) reflects the following subproject performance:
  - RL-0013 TRU Waste – Increased TRU Retrieval project operational costs associated with inability to make progress due to upset conditions and TRU Retrieval support and management costs in support of deteriorated waste containers, increased allocations for additional office space and other assessments as a result of increased Recovery Act expenditures, partially offset by lower ramp up and training costs for TRU Characterization and Shipping and efficiencies in T-Plant.
  - RL-0013 MLLW Treatment – Costs for MLLW are below plan due to efficiencies created by treating waste at ES-Clive rather than planned treatment at PermaFix Northwest (due to a waiver received from DOE), partially offset by higher costs for ERDF maintenance facility due to safety and environmental requirements.

## Base Performance by PBS (\$M)

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Mat Stab & Disp PFP	113.3	111.4	108.1	(1.9)	3.3	339.7	336.8	2.9
RL-0012 - SNF Stabilization & Disp	150.9	147.3	150.8	(3.6)	(3.4)	577.4	578.0	(0.6)
RL-0013 - Solid Waste Stab & Disp	214.2	210.5	209.9	(3.7)	0.5	1,574.9	1,581.2	(6.3)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	222.0	215.4	206.0	(6.6)	9.4	1,207.4	1,202.6	4.8
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	44.2	44.2	38.0	0.1	6.2	978.8	969.1	9.7
RL-0041 - Nuc Fac D&D - RC Closure Proj	17.8	17.5	18.3	(0.3)	(0.8)	378.1	356.8	21.3
RL-0042 - Nuc Fac D&D - FFTF Proj	9.7	9.7	9.1	0.0	0.6	25.0	23.6	1.4
<b>Subtotal</b>	<b>772.2</b>	<b>756.1</b>	<b>740.3</b>	<b>(16.1)</b>	<b>15.8</b>	<b>5,081.4</b>	<b>5,048.1</b>	<b>33.2</b>
<b>Management Reserve</b>						<b>173.8</b>		
<b>Fee</b>			<b>36.1</b>			<b>231.9</b>		
<b>Total</b>			<b>776.4</b>			<b>5,487.1</b>		

**Base**

The CTD unfavorable Schedule Variance (-\$16.1M/-2.1%) reflects:

- Various positive and negative variances contributed to the RL-0030 negative variance (-\$6.6M). The primary contributor is the 100-HR-3 Operable Unit (-\$3.3M) variance which is due to delays in HX design activities that have also now impacted field work (distribution of electricity and piping, erection of HX process building and full scale bioremediation). While initial field work has been delayed, no impact is expected to the scheduled completion dates of the HX pump-and-treat facility.
- The RL-0013 negative variance (-\$3.7M) is primarily due to the extended review of the application on the polyurea by the Joint Evaluation Team (JET) and the Hazard Review Board (HRB) review preparation have pushed out the schedule for long-term box storage, coupled with contact handled (CH) waste retrieval. RL's determination that the Trench Face Process System (TFPS) is a low-level burial ground (LLBG) major modification causing delay in completion of safety and hazards analyses, and TRU Repackaging RH Large Box Repack shipments of low gram TRU waste delay pending contract establishment, and Canister Storage Building (CSB) performance Distribution Control System (DCS) design delay due to resource availability (assigned to higher priority activities).
- The RL-0012, RL-0040, RL-0041 and RL-0042 variances (-\$3.8M) are within reporting thresholds.
- The RL-0011 negative variance (-\$1.9M) is due to the following:
  - (-\$0.7M) Safety stand-downs and stop works resulted in loss of 20 working days and 37 shifts of overtime.
  - (-\$0.8M) PRF – Delayed BROKK Procurement due to decision to manually size reduce pencil tanks and Canyon Floor Cleaning caused by delay of reactivation of canyon crane offset by early execution of Readiness Assessment in support of Manual Size Reduction of Pencil Tanks.
    - The schedule variance associated with the procurement of the BROKK will continue pending the completion of the evaluation of the manual size reduction approach (~August 2010 (Expected Recovery ~January 2011)).

- The schedule variance associated with floor cleaning and hood removal is due to the increased duration for canyon crane reactivation. Expected Recovery – September, 2010.
- (-\$0.4M) Facility Modifications – Additional safety, health, and Beryllium requirements are causing this variance.

The CTD favorable Cost Variance (+\$15.8M/+2.1%) reflects:

- Various positive and negative variances contribute to the RL-0030 positive variance (+\$9.4M). The following variances exceed reporting thresholds:
  - Regulatory Decision & Closure Integration (+\$3.1M) due to completing work scope more efficiently than planned; primarily in the areas of multi-incremental sampling, borehole drilling, landfill characterization, and document preparation. The project is currently preparing a BCR to implement the new central plateau closure strategy and will develop the new budget requirements.
  - 200-ZP-1 Operable Unit (+\$2.3M) the result of the following factors: 1) Interim Operations reflects significant progress and cost underruns have been achieved to date for Annual System Calibration. 2) Design of the permanent hookup of well EW-1 (C7017) was lower than planned as only minor changes were needed to an existing design. 3) Cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly. This positive cost variance is expected to be available for funds management within other areas of the project.
  - 100-NR-2 OU (+\$1.9M) resulted from performing chemical treatment and maintenance scope, jet grouting pilot test work and RI/FS Work Plan and Interim Proposed Plan Reporting more efficiently than planned. It is anticipated that this underrun can be funds managed for other project scope.
  - 100-KR-4 OU (+\$1.7M) efficiencies obtained with the KR-4 Operations and Maintenance accounts, which are expected to continue throughout the fiscal year.
  - GW Monitoring & Performance Assessments (-\$2.3M) primarily due to WSCF cost for FY 2009 and FY 2010 coming in higher than what was planned. The primary drivers for the increase are rate increases and G&A adders that are charged to the direct account that were not in the plan. Overrun in this WSCF account is expected to continue and will managed by funds within the project.
  - Usage Based Services (-\$1.1M) due to the increased cost associated with training due to the additional ARRA work and fleet services cost that occurred in FY 2009. Overruns will continue to be funds managed within the S&GRP project.
- The RL-0040 positive variance (+\$6.2M) 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) (+\$0.7M) less than expected, completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$1.1M), capital equipment (+\$0.4M), Usage Base Services (+\$0.2M) and underrun in G&A and direct distributable allocations (+\$1.2M). The variance for Waste Sites (+\$1.0M) is due to less extensive regulatory support labor required for the U Zone agreement in principal and an inadvertent overstatement of performance related to the 600 Central Landfill barrier in March 2010 and the completion of a confirmatory sampling waste site located within BC Controlled Area.
- The RL-0011 positive variance (+\$3.3M) is due to the following:
  - (+\$1.7M) D&D Materials, Subcontracts, and Waste Container Procurements, D&D staff ramp-up, and recognized efficiencies in Min-Safe Operations

- (+\$1.4M) Early Completion of Spent Nuclear Material De-Inventory
- Recovery – this positive cost variance is expected to decrease with increased utilization of overtime to recover schedule associated with the canyon floor cleaning and pH and Pulsar Hood Removal.
- The RL-0013 positive variance (+\$0.5M) is due to efficiencies in Liquid Effluent Facilities, MLLW (due to treating waste at ES-Clive rather than planned treatment at PFNW), Off Site Spent Nuclear Fuel (SNF), TRU disposition and TRU repackaging repack lines; partially offset by increased assessments (facilities, fleet and training) above plan (cost transfers to be made to responsible projects) and TRU Retrieval additional resources to deal with the deteriorated containers.
- The RL-0012, RL-0041 and RL-0042 variances (-\$0.7M) are within established reporting thresholds.

## FUNDING ANALYSIS

### FY 2010 Funds vs. Spending Forecast (\$M)

PBS	Project	FY 2010		Variance
		Baseline Funding	Spending Forecast	
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	118.8	101.4	17.4
<b>RL-0013</b>	Waste and Fuels Management Project	150.3	130.3	20.0
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	133.2	104.2	29.0
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	135.4	112.7	22.6
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	116.7	106.5	10.2
<b>Total ARRA:</b>		<b>654.4</b>	<b>555.2</b>	<b>99.2</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	57.2	50.3	6.9
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	86.5	77.5	9.0
<b>RL-0013</b>	Waste and Fuels Management Project	108.1	102.2	5.9
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	176.4	151.7	24.7
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	25.4	16.3	9.1
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	35.8	14.3	21.4
<b>RL-0042</b>	Fast Flux Test Facility Closure	1.6	1.1	0.5
<b>Total Base:</b>		<b>491.1</b>	<b>413.5</b>	<b>77.6</b>
<b>Combined ARRA/Base Total:</b>		<b>1,145.4</b>	<b>968.6</b>	<b>176.8</b>



## BASELINE CHANGE REQUESTS

In June 2010, CHPRC approved and implemented nine (9) baseline change requests, of which one (1) is administrative in nature and did not change budget, schedule or scope.

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 June 2010</b>		
AWA-040-10-003R0	Continuation of Waste Site 600-38 as RTD Site (failed CSNA)	This change request adds scope to the performance measurement baseline (PMB) for remediation of waste site 600-38 through the removal, treatment and disposal (RTD) method as a result of the site having contaminants in excess of the remedial action goals when sampled to allow closure as a "confirmatory sampling no action (CSNA)" site. A condition of change notification is included. To accommodate this increased PMB scope for waste site 600-38, the start of work on waste site 200-E-109 is deferred. There is no use of management reserve but additional Base funding is requested. However, CHPRC is using funds management in FY 2010 to cover the costs of this advanced work authorization until funds are made available by RL.
BCR-011-10-001R0	Elimination of PRF Elevator Work Scope	The installation of a new elevator in the Plutonium Reclamation Facility (PRF) is eliminated as a more efficient and less expensive approach has been identified. Instead, waste containers and equipment from the upper floors of the 236-Z PRF building are removed by packaging waste into non-standard waste containers, transporting the waste by utilization of the existing freight elevator in the PRF facility, and then placing the non-standard container into a Solid Waste Box for shipment to the Central Waste Complex. No management reserve is used.
BCR-030-10-009R0	Alternative Analysis Impact to RH Large Package Capability	The major activities to complete identified work scope were temporarily put on hold early in Fiscal Year 2010, pending completion of CHPRC-00604, "No-Path-Forward Waste Stream Alternative Analysis." The identified waste streams were within the comprehensive list of waste items not having a defined disposal path that were evaluated in CHPRC-00604, which was issued in April 2010. To reflect the outcome of CHPRC-00604, the detailed work scope as planned is revised in this change request, which results in a reduction to the total budget on the revised work scope. In addition, specific deliverables to reflect the outcome of CHPRC-00604 are added as follows: Preparation of RH-TRU 72-B Cask Shipping Capability Study; Preparation of RH/Large Package Study; Preparation of RH-TRU 72-B Cask Shipping Capability Functional Design Criteria; and Preparation of RH/Large Package Study Functional Design Criteria. The studies will be sufficient to justify re-planning of the funding profile for acquisition of these capabilities in support of Tri-Party Agreement milestone M-91. No additional funds are required as a result of this change request and no management reserve is used.
BCR-013-10-010R0	Compliant OCRWM Record Storage per RL Direction	This change request establishes and maintains a compliant Office of Civilian Radioactive Waste Management (OCRWM) Records Storage Facility in the 300 Area under Contract DE-AC06-08RL14788-Modification 075, Change Order #17. The facility supports CH2M Hill Plateau Remediation Contractor (CHPRC) records storage requirements. The scope change documented in this change request is RL directed via contract modification 075, change order #17. No management reserve is used.
BCR-030-10-015R0	ZP-1 Process Improvements & New Treatability Test Methods	This change request adds a number of new activities to the identified work breakdown structures to: (1) provide options to current sampling and analytical methods that could potentially provide significant cost savings to current methods; (2) support the 200 West Area Groundwater Treatment Facility; and, (3) provide an option to potentially enhance the recovery of carbon tetrachloride. No

Change Request #	Title	Summary of Change
		additional funds are required as a result of this change request. There is no change to the ZP-1 ARRA key performance parameters and no management reserve is used.
BCR-PRC-10-041R0	ARRA Reapportionment, June 2010	This change request revises the budget profile for the CHPRC performance measurement baseline as directed by RL (e-mail dated June 1, 2010), to support RL's submittal to HQ on the ARRA reapportionment request. Additional ARRA funds of \$20.5M is required to support this change request. The CHPRC Key Performance Parameter metrics as provided to RL by CHPRC in April 2010 are impacted and updated. Management reserve, in the amount of \$6.057M, is used from ARRA RL-13 based on realized risks WSD-007, CH-TRU Retrieval Complexities, and WSD-013A, TRU Waste Volumes or Characteristics - Retrieval.
BCR-R11-10-001R0	241-Z Underground Trench – Scope Deferral	The disposition of the 241-Z Underground pipe trench was originally planned in fiscal year (FY) 2010 assuming that waste would not be able to be removed from the 242-Z facility due to load restrictions associated with the 241-Z underground pipe trench. After detailed planning was completed, it was determined that there was not an issue with load limits associated with waste removal from the 242-Z facility. Therefore, the disposition of the 241-Z Underground pipe trench is deferred to fiscal year 2011 so as not to interfere with deactivation and demolition (D&D) of the 242-Z facility at the Plutonium Finishing Plant. No additional funds are required to support this change request and no management reserve is used.
BCR-R30-10-002R0	TPA M-24 Replacement Well	This change request documents the drilling of a new monitoring well to replace a well that is decommissioned because groundwater was not encountered. Specifically, the well installed at LLWMA-2 within work breakdown structure (WBS) 030.03.09.01.04," [S] {C7}TPA M-24 Well Drilling FY 2010" was drilled and decommissioned since groundwater was not encountered, which disqualifies this well as a monitoring well. Another well is now planned to be drilled as a replacement monitoring well. This well is located at LLWMA-1 as identified in the monitoring plan (DOE/RL-2009-75). Management reserve, in the amount of \$86.3K, is used from ARRA RL-30 to cover the increased budget for this new monitoring well based on realized risks SGW-006, "Field Issues Impact Well Drilling Performance," and SGW-107, "Unplanned New Wells Required".
BCRA-PRC-10-043R0	General Administrative Changes for June 2010	This administrative change request documents the following changes to the performance measurement baseline for June 2010: <ul style="list-style-type: none"> <li>• Within RL-30, RL-40 Waste sites and RL-41 waste sites made the changes as identified in Attachment 1.</li> <li>• Incorporated the changes as identified in the e-mail from Judy Wells, dated 6/18/10 (Attached)</li> <li>• The EVMS methodology was changed on the following activities within the PBS RL-11 portion of the performance measurement baseline: <ul style="list-style-type: none"> <li>011.05.01.09.0010 - Changed EVMS from Apportioned to % Complete;</li> <li>011.05.01.15.2041 - Changed EVMS method from Apportioned Effort "A" to % Complete</li> </ul> </li> <li>• Updated P6 schedule activities that were marked with an "H" but had no historical BCWS or BCWP. So, these activities were deleted from P6 and COBRA – See Attachment 2.</li> <li>• This administrative change request makes other HPIC changes as identified the attached HPIC approved forms in Attachment 3. There is no change in budget or scope and no management reserve is used.</li> </ul>

Overall, the contract period PMB budget increased \$62,313K in June 2010. Management reserve, in the amount of \$6,162K, was used to offset realized risks as discussed above. 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 June 2010, is \$56,151K and is summarized by fiscal year in the tables below (negative number represents reduction):

**June 2010 Summary of Changes to Estimated Contract Price**

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014-2018
<b>May 2010 Contract Price</b>						
PMB	653,426	989,761	976,547	769,559	4,030,046	2,298,069
Mgmt Rsrv (MR)	0	27,700	33,871	30,200	124,071	86,300
Fee	39,712	48,772	49,036	40,377	210,649	93,429
<b>Total</b>	<b>693,138</b>	<b>1,066,233</b>	<b>1,059,453</b>	<b>840,137</b>	<b>4,364,765</b>	<b>2,477,798</b>
<b>Change by Funding Source to Contract Price in June 2010 (9 BCRs)</b>						
<b>PMB</b>						
<b>ARRA</b>						
All ARRA WBSs	0.0	8,384	35,569	0	43,953	0.0
<b>Base</b>						
All Base WBSs	0	(4,953)	(12,207)	(75,618)	(116,413)	134,773
<b>Change to PMB</b>	<b>0</b>	<b>3,431</b>	<b>23,363</b>	<b>(75,618)</b>	<b>(72,460)</b>	<b>134,773</b>
<b>MR</b>						
<b>ARRA</b>						
All ARRA WBSs	0	(2,454)	(3,708)	0	(6,162)	0
<b>Base</b>						
All Base WBSs	0	0	0	0	0	0
<b>Change to MR</b>	<b>0</b>	<b>(2,454)</b>	<b>(3,708)</b>	<b>0</b>	<b>(6,162)</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>977</b>	<b>19,655</b>	<b>(75,618)</b>	<b>(78,622)</b>	<b>134,773</b>
<b>June 2010 Contract Price</b>						
PMB	653,426	993,191	999,909	693,942	3,957,586	2,432,841
MR	0	25,246	30,163	30,200	117,909	86,300
Fee	39,712	48,772	49,036	40,377	210,649	93,429
<b>Total</b>	<b>693,138</b>	<b>1,067,210</b>	<b>1,079,108</b>	<b>764,519</b>	<b>4,286,144</b>	<b>2,612,571</b>

### Changes to/Utilization of Management Reserve in June 2010

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
<b>Management Reserve (MR) - End of May 2010</b>							
<b>ARRA</b>	RL-0011.R1	0	1,700	2,000	0	3,700	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	6,500	6,000	0	12,500	0
	RL-0030.R1	0	1,500	3,371	0	4,871	0
	RL-0040.R1.1	0	2,000	2,800	0	4,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	4,500	6,200	0	10,700	0
	<b>ARRA Total</b>	<b>0</b>	<b>16,200</b>	<b>20,371</b>	<b>0</b>	<b>36,571</b>	<b>0</b>
<b>Base</b>	RL-0011	0	1,000	1,500	11,000	23,700	0
	RL-0012	0	3,800	3,800	3,500	14,600	12,200
	RL-0013	0	1,000	500	4,000	11,500	23,000
	RL-0030	0	3,000	3,500	4,500	15,400	9,000
	RL-0040	0	2,000	3,000	3,500	13,000	23,400
	RL-0041	0	500	1,000	3,500	8,500	17,700
	RL-0042	0	200	200	200	800	1,000
	<b>Base Total</b>	<b>0</b>	<b>11,500</b>	<b>13,500</b>	<b>30,200</b>	<b>87,500</b>	<b>86,300</b>
	<b>MR Total</b>	<b>0</b>	<b>27,700</b>	<b>33,871</b>	<b>30,200</b>	<b>124,071</b>	<b>86,300</b>
<b>Changes to/Utilization of Management Reserve in June 2010</b>							
<b>ARRA</b>	RL-0011.R1	0	0	0	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	(2,367)	(3,708)	0	(6,075)	0
	RL-0030.R1	0	(86)	0	0	(86)	0
	RL-0040.R1.1	0	0	0	0	0	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>(2,454)</b>	<b>(3,708)</b>	<b>0</b>	<b>(6,162)</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	0	0	0	0
	RL-0041	0	0	0	0	0	0
	RL-0042	0	0	0	0	0	0
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>MR Total</b>	<b>0</b>	<b>(2,454)</b>	<b>(3,708)</b>	<b>0</b>	<b>(6,162)</b>	<b>0</b>
<b>Management Reserve - End of June 2010</b>							
<b>ARRA</b>	RL-0011.R1	0	1,700	2,000	0	3,700	0
	RL-0013.R1.1	0	0	0	0	0	0
	RL-0013.R1.2	0	4,133	2,292	0	6,425	0
	RL-0030.R1	0	1,414	3,371	0	4,784	0
	RL-0040.R1.1	0	2,000	2,800	0	4,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	4,500	6,200	0	10,700	0
	<b>ARRA Total</b>	<b>0</b>	<b>13,746</b>	<b>16,663</b>	<b>0</b>	<b>30,409</b>	<b>0</b>
<b>Base</b>	RL-0011	0	1,000	1,500	11,000	23,700	0
	RL-0012	0	3,800	3,800	3,500	14,600	12,200
	RL-0013	0	1,000	500	4,000	11,500	23,000
	RL-0030	0	3,000	3,500	4,500	15,400	9,000
	RL-0040	0	2,000	3,000	3,500	13,000	23,400
	RL-0041	0	500	1,000	3,500	8,500	17,700
	RL-0042	0	200	200	200	800	1,000
	<b>Base Total</b>	<b>0</b>	<b>11,500</b>	<b>13,500</b>	<b>30,200</b>	<b>87,500</b>	<b>86,300</b>
	<b>MR Total</b>	<b>0</b>	<b>25,246</b>	<b>30,163</b>	<b>30,200</b>	<b>117,909</b>	<b>86,300</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 6/30/2010							Planned Subcontracting*	\$2,524,483,195	
Contracts + Purchase Orders + Pcards							Contract-to-Date Awards =	\$1,191,247,828	
Reporting Classification	ARRA		Non-ARRA		Total (\$)	Percent of Total	Goal (%)	Balance Remaining to Award =	\$1,333,235,367
	(\$)	%	(\$)	%				Goal Award (\$)	Bal. to Goal (\$)
SB	\$275,474,163	55.53%	\$308,965,851	44.44%	\$584,440,014	49.06%	49.30%	\$1,244,570,215	\$660,130,201
SDB	\$52,078,038	10.50%	\$51,946,802	7.47%	\$104,024,840	8.73%	8.20%	\$207,007,622	\$102,982,782
SWOB	\$63,095,856	12.72%	\$57,271,464	8.24%	\$120,367,320	10.10%	6.50%	\$164,091,408	\$43,724,088
HUB	\$7,495,910	1.51%	\$11,544,750	1.66%	\$19,040,659	1.60%	3.20%	\$80,783,462	\$61,742,803
VOSB	\$44,396,268	8.95%	\$24,054,376	3.46%	\$68,450,644	5.75%	2.00%	\$50,489,664	(\$17,960,980)
SDVO	\$6,163,330	1.24%	\$5,283,463	0.76%	\$11,446,794	0.96%	2.00%	\$50,489,664	\$39,042,870
NAB	\$5,024,180	1.01%	\$4,432,428	0.64%	\$9,456,608	0.79%	0.00%	<i>*10-year subcontracting projection</i>	
Large	\$159,515,004	32.16%	\$247,992,751	35.67%	\$407,507,754	34.21%	0.00%	<u>PRC clause H.20 small business (SB) requirement:</u>	
GOVT	\$38,390	0.01%	\$768,487	0.11%	\$806,877	0.07%	0.00%	≥17% of Total Contract Price performed by SB	
GOVT CONT	\$60,977,607	12.29%	\$134,823,923	19.39%	\$195,801,530	16.44%	0.00%	Total Contract Price:	\$4,847,121,172
EDUC	\$25	0.00%	\$31,257	0.00%	\$31,282	0.00%	0.00%	17% requirement:	\$824,010,599
NONPROFIT	\$27,691	0.01%	\$2,519,798	0.36%	\$2,547,490	0.21%	0.00%	Awarded:	\$584,440,014
FOREIGN	\$28,080	0.01%	\$84,801	0.01%	\$112,881	0.01%	0.00%	Balance to Requirement:	\$239,570,585
<b>Total</b>	<b>\$496,060,960</b>		<b>\$695,186,867</b>		<b>\$1,191,247,828</b>				

**Notes:**

1. Performance in FY 2010 continues to exceed goals in the Disadvantaged Business, Woman Owned, and Veteran Owned categories.
2. Over 49% of awards have been made to small businesses with over 55% of ARRA awards to small businesses.
3. ARRA funded awards have accounted for 42% of all actions placed since contract inception.
4. Over 94% of the total dollars arise from service and staffing Contracts and Contract amendments with less than 4% of the dollars arising from P-card purchases and the balance from purchase orders for materials and equipment.
5. This report excludes blanket contract values which are only estimates and not used for payment obligations.
6. Data is summarized by business categories (WMBE codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

## GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Contract Section	Project	GFS/I	Status
<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 (CBFO).	Ongoing