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## EXECUTIVE SUMMARY

### Focus on Safety

In March, Safety, Health, Security, & Quality (SHS&Q) kicked off the second quarter FY 2010 individual project/program All Hands meetings at the Three Rivers Convention Center. These individual project and program meetings are designed to meet with our organizational personnel to present and discuss specific “lessons learned” related events CHPRC has experienced over the last few months. The main theme is “Dealing with Uncertainty” as it relates to recognizing and responding appropriately to changed conditions in the workplace. The specific events which were analyzed and presented to the SHS&Q organization included the Waste Retrieval/Trench 11 concerns, the abandoned conduit cut at 272-E, cultural land awareness, and our recent vehicle incidents.



Trench 11

Following the presentation of these events CHPRC management expectations were reiterated to the SHS&Q organization which included:

- Clearly define and understand your work scope
- Think and identify what could go wrong during the work planning process
- Perform work within established controls
- Maintain a questioning attitude
- Follow procedures
- Don't proceed in the face of uncertainty
- Formally plan response actions to unexpected hazards or conditions
- Use your instincts, if it does not feel right stop and discuss it

The new GOAL (Get Out and Look) program was rolled out. This new vehicle safety program is one of the corrective actions related to our continuous safety improvement initiatives. GOAL's aim is to heighten awareness among our employees that operating a vehicle is inherently hazardous. GOAL focuses on three main checks that our employees should perform before driving their vehicle:

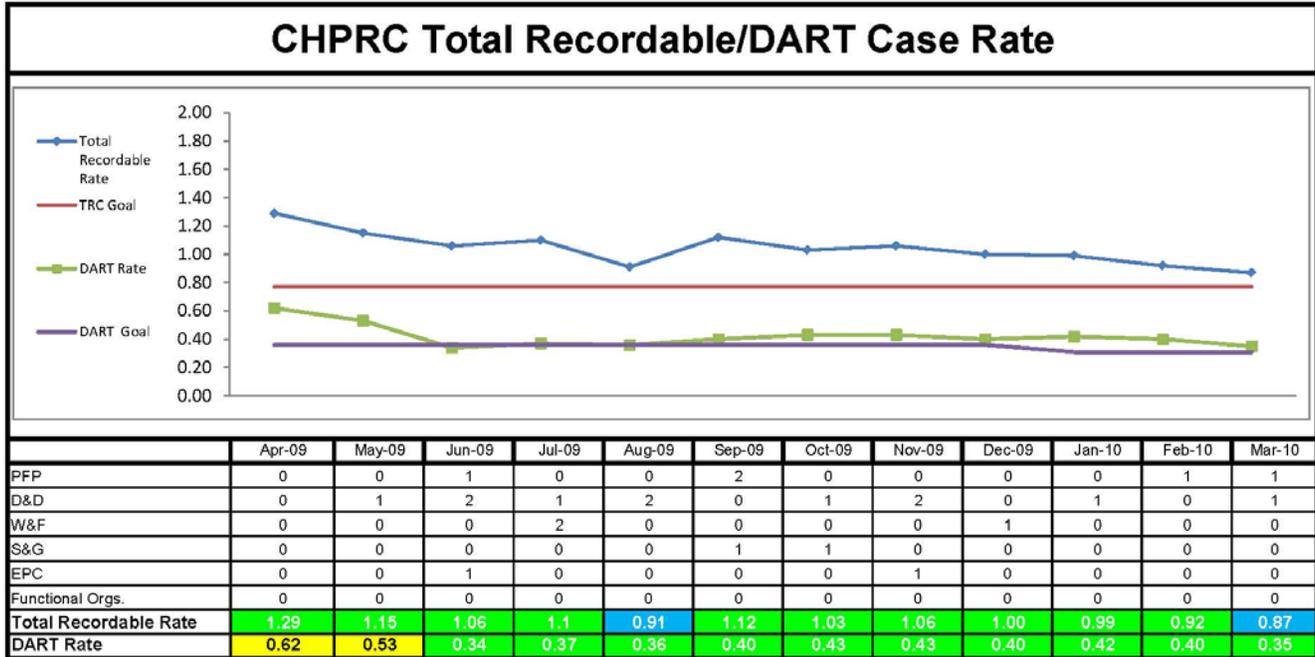


- Check the condition of the vehicle—Is it safe to drive?
- Ensure there are no obstacles—Mark as necessary if there are obstacles!
- Plan your route before moving the vehicle.

The GOAL program will be launched in April for all employees with random spot awards through use of stickers, magnets, and window clings dispersed by Project points of contact. The underlying message is whether we are driving or working, continuing attention to tasks being performed and our questioning attitudes can help us do our jobs better and safer.

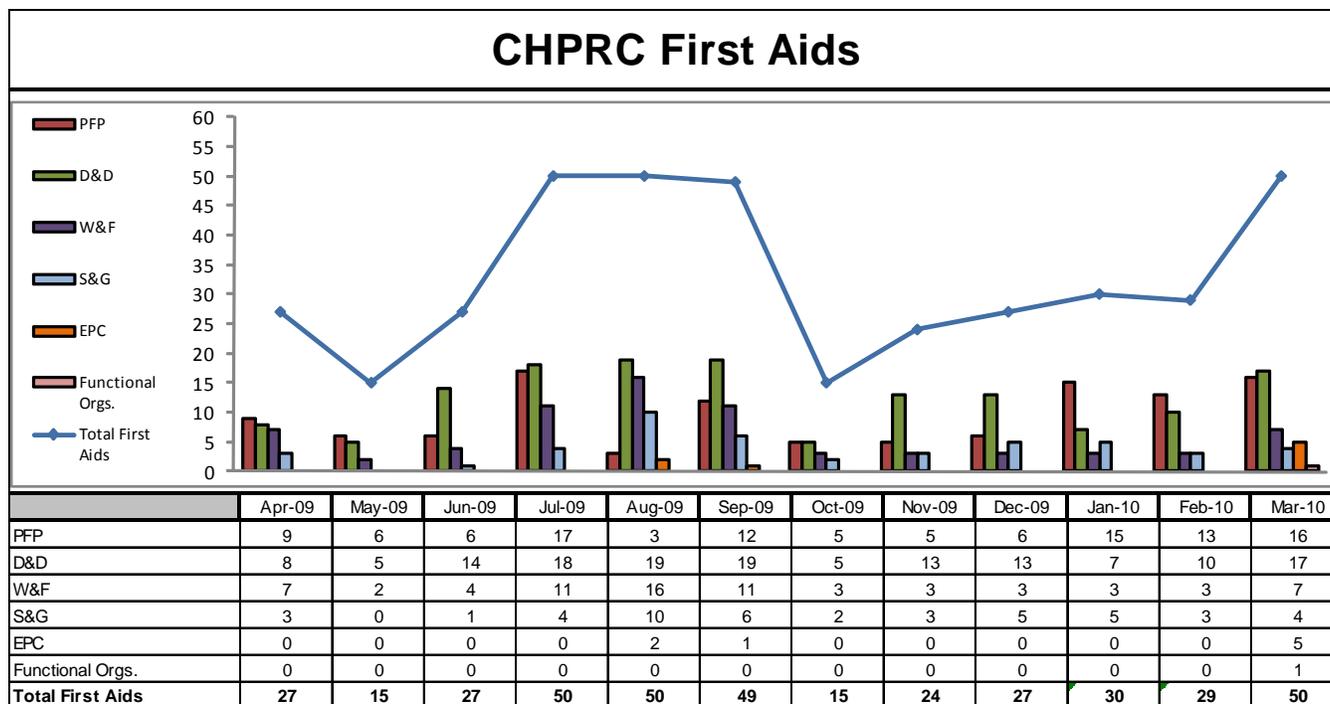
## TARGET ZERO PERFORMANCE March 2010

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 0.87 is based upon a total of 25 recordable injuries. Five cases are under review requiring additional information. An injured back at ALE resulted in prescribed medication and an inhalation of Nitric fumes at 200W resulted in the two recordable injuries shown above for March. TRC rate performance improved as it moved into the blue range this month and continues below the 0.94 CHPRC goal.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.35 is based upon a total of ten cases. DART rate performance continues with solid and steady performance in the green range. The EM DART rate for CY 2009 equals 0.40.



**First Aid Case Summary** – A 20 percent increase in total work hours at the CHPRC and warmer weather led to a non-statistical increase in the total number of first aid cases during March 2010. Warmer weather resulted in seven insect-related first aid cases reported during the month compared to one case total during January and February. A slight increase was observed in the number of strain and sprains. Special focus has been placed with our workers related to prevention of these types of injuries. All other types of first aid cases remained relatively stable.

## PROGRAM SUMMARIES

### Safety, Health, Security, and Quality

The highlighted activity for the month was the SHS&Q organizational all-employee meeting held on March 29. In addition to the special theme of “Dealing with Uncertainty” other topics included electrical safety, FY 2009 accomplishments and highlights, FY 2010 near term expectations, and FY 2010 performance metrics; and new initiatives such as document streamlining and enhanced vehicle safety awareness.

SHS&Q sponsored the monthly President’s Zero Accident Council (PZAC) meeting that was held on March 17. The three main points for the meeting centered on announcement of the new “GOAL” program, prohibition of handheld cell phones while driving, and motorcycle driver safety. Other notable presentations included a causal analysis summary of government vehicle incidents since contract inception and an environmental topic on selection of safe alternatives to traditional cleaning agents as provided by bio-based/plant based products.

Significant SHS&Q-related Program activities during the month included:

- Development and issuance of the following four *Thinking Target Zero* bulletins, all targeted on vehicle safety: Driver Awareness – Beyond 360; Mirror Adjustments; Cell Phone Use in Vehicles; and Recent Vehicle Accidents. In addition, two Special Safety Bulletins were also developed and distributed: Haworth Chair Recall/Retrofit and Non-Emergency Notifications.

- Completed a comprehensive Corrective Action Plan (CAP) to address the roll-up of RL's Concern and Findings relating to the CHPRC scaffold safety program.
- Developed an educational awareness video on the application of proper electrical safety work controls (using a World Series of Poker theme for "gambling with personal safety").
- Assisted the Waste & Fuels Management Project in development of an industrial hygiene sampling plan for Trench 17.
- Supported preparations for the May 2010 Community Health and Safety Exposition.
- Completed roll-out of the new "GOAL" initiative (Get Out And Look). This initiative focuses on vehicle safety and the prevention of motor vehicle incidents using a three-phase approach: checking vehicle condition, ensuring adequate clearance for any obstacles, and pre-planning travel routes. Participants are eligible for recognition/reward.
- Continued to provide SME technical participation in multi-contractor program development teams working on electrical safety, fall protection, and Industrial Hygiene database program elements.
- Transitioned industrial hygiene survey data, to include beryllium facility assessment records, into the IDMS electronic records repository.
- Facilitated an Exposure Assessment Webinar for Hanford Site Contractor industrial hygienists.
- Coordinated the activities of the DOE/HQ Chronic Beryllium Disease Prevention Program Assessment Team, to include office space and logistics.
- Developed an EP Program Quality Improvement Project Plan.
- Performed 12 EP drills in the January – March time frame.
- Developed a Management Directive for Non-Emergency Notification Process in response to Trench 11 event.
- Performed 113 self-assessments in March.
- Transmitted the Positive Plutonium Finishing Plant Unreviewed Safety Question, Associated Justification for Continued Operations, Proposed Safety Basis Changes, and Annual Unreviewed Safety Question Summary Report.
- Transmitted the Waste Encapsulation and Storage Facility Assessment Report for the Implementation of Defense Nuclear Facilities Safety Board Recommendation 2004-2.
- Transmitted the Annual Update to the Master Documented Safety Analysis (MDSA) for the Solid Waste Operations Complex (SWOC) HNF-14741, Revision 7, the Technical Safety Requirements (TSR) for the Solid Waste Operations Complex, HNF-15280, Revision 7, and the Unreviewed Safety Question Evaluation Summary.
- Submitted the Annual Update of the Documented Safety Analysis for the Fast Flux Test Facility.
- Commenced development of the Process Streamlining Project (5-foot book shelf initiative). The charter of this project consists of:
  - Clarify technical and administrative direction to the CHPRC workforce.
  - Eliminate inconsistencies and contradictory requirements and guidance.
  - Identify and eliminate non-value added steps and actions in work processes and practices.
  - Eliminate legacy programs, processes and documents that are not driven by current CHPRC contractual requirements.
  - Reduce the administrative burden of maintaining unnecessary infrastructure programs / documents.
  - Shift ownership of the infrastructure programs to line management.

## Environmental Program and Strategic Planning (EPSP)

The Central Plateau Strategy Tentative Agreement (TA) was signed by all three Tri-Party Agencies announcing their agreement on the CP Strategy and decision structure. Prepared list of specific work scope that will be stopped in response to DOE's letter of direction to proceed with implementation of the Tentative Agreement on Tri-Party Agreement changes for Central Plateau cleanup. Developing plan and schedule for technical discussions with the regulators on implementation of the Strategy (exposure scenarios, etc.)

Supported the D&D project in completion of DOE/RL-2010-22, Action Memorandum and Removal Action Workplan for General Hanford Site Decommissioning Activities, Rev. 0. This was a critical activity to allow ARRA funded demolition work to proceed in the 200 Area.

Progress continues to be made in completing the EMS Objectives and Targets, including the system to ensure preferential purchasing of materials that provide an environmental benefit because they consume less energy, are made with recycled or bio-based materials, etc.

New spill prevention and response requirements imposed by RL in the supplement to CRD O 450.1A were formally implemented March 1. These requirements ensure that even small spills are evaluated for reporting, that spills are cleaned up in a timely manner, and that cleanups are verified and documented.

During review of the documents requested by WDOH on the February 24 inspection of the major radioactive air emissions stack at the Canister Storage Building (CSB), CHPRC personnel discovered a potential reporting discrepancy related to the annubar (an air effluent flow measurement device) on the stack. Follow up meetings were held with RL and WDOH and arrangements were made to pull the annubar for inspection on March 18. The annubar was clean and undamaged. Documents requested by WDOH have been provided to them and a written report is pending. On March 18, WDOH inspected the Waste Encapsulation and Storage Facility (WESF) major emission unit (296-B-10). The inspectors looked at the K-7-2 exhaust fan expansion joint repairs on the stack. WDOH did not request any information be provided to them and no actions were required. Letters from WDOH were received to close out two previous inspections by WDOH. A March 18 letter closed out Audit 613 for the 291-Z-1 and 296-Z-7 stacks (EU 393 and EU 503). There were no issues. A second letter dated March 25 closed out Audit 615 for inspection of Emission Unit 296- W-4 (EU 193) at WRAP. There were two issues noted during the inspection which have been resolved.

On March 9, an Ecology compliance inspector signed the Dangerous Waste Compliance Checklist for the five Satellite Accumulation Areas (SAAs) that were inspected on February 2, 2010, at the 6268 and 6269 buildings. No issues were noted and the inspection was closed.

On March 3, a meeting was held with Ecology and CHPRC to discuss the surveillance and maintenance activities at the various treatment, storage, and/or disposal (TSD) units located at the B Plant Complex, PUREX, and PUREX Tunnel facilities. Ecology reviewed several documents and viewed photographs of the various TSD units. A drive by tour was given and no further information was requested.

During the month of March, three Management Assessments, four worksite assessments and the following eight surveillances were completed:

- QA-EQA-SURV-10-012, Surveillance of the Procurement of Chillers for the Plutonium Finishing Plant (PFP) with American Recovery and Reinstatement Act (ARRA) Funding. No issues.
- QA-EQA-SURV-10-015, Review of Document Control and Records Management at SGRP. Two opportunities for improvement resulted from the review.
- QA-EQA-SURV-10-016, Review of Document Control and Records Management at W&FM. No issues were noted.

- QA-EQA-SURV-10-018, Review EP&SP to determine use of Microsoft Excel in safety and mission critical software. No issues.
- QA-EQA-SURV-10-062, Review SGRP Decontamination activities used for Bore Hole Equipment to ensure compliance with HASQARD requirements. No issues.
- QA-EQA-SURV-10-065 Cultural and ecological review requests at SGRP and W&FM. No Issues.
- QA-EQA-SURV-10-066 Review SGRP sample forecast communication. No issues were identified.
- QA-EQA-SURV-10-049 Review of BOS D&D Environmental Management System. No issues were identified.

### **Business Services and Project Controls**

In March, CHPRC approved and implemented eight (8) baseline change requests, of which three (3) are administrative in nature and did not change budget, schedule or scope.

Overall for March, the contract period PMB budget is reduced \$16K and there is no change to, or utilization of, management reserve and no additional funding is requested. 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 primary focus in April 2010 will be to support RL in review of the PRC Baseline, Revision 2, support RL on the GAO audit of PBSs RL-40 & RL-41 and process normal operating change requests as needed to maintain the PMB in the earned value management system consistent with requirements.

Project Controls completed a total of seventeen Requests for Equitable Adjustment to the RL Contracting Officer; bringing the total delivered to eighteen, total value of \$260.4M. There are an additional four REAs pending delivery in April, with an approximate total of 70 proposal / REA actions due to RL for the remainder of the fiscal year. The REA Team continues to utilize estimating staff provided through subcontractors and corporate offices to supplement the project's efforts in this area.

Property Management initiated the annual inventory of Sensitive Property in February. A total of 4,507 items will be inventoried. As of March 25, 1,905 items or 42% 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.

Facility Management installed and accepted from construction 24 of the 32 remaining Phase II ARRA Mobile facilities including the EPC/S&GW Complex as of January 19, 2010. The remaining eight facilities are coming on line in conjunction with the construction of the shop facilities. Actually move in to these facilities has been delayed until the installation of permanent power and the fire protection (hydrant) loop which originates from the east of the site and also serves the four shop complexes. Occupancy of mobiles and the shops will be phased in with the EPC/S&GW complex project completed by September 30, 2010.

The Phase III ARRA mobile office project is underway with the procurement of 37 units. Deliveries commenced on April 2, 2010. All units are scheduled for occupancy prior to June 30, 2010.

The Phase IV ARRA Mobile office project will provide five (5) additional units for EPC in the Unsecured Core adjacent to the EPC/S&GW complex. The RFP for this procurement is in process.

During March, CHPRC Procurement group awarded /amended \$57M in subcontracts to support Base/ARRA acceleration objectives. Record levels of procurement volume have been processed over first 18 months of the contract (\$1.02B in new awards including \$360 million for ARRA). The inception-to-date procurement volume encompasses 9050 releases, 5000 POs, and 80,000 P-Card transactions.

CHPRC continues to achieve overall small business goals. Through March, CHPRC has awarded \$517.5M of awards to small businesses representing 50.5% of total awards. This exceeds the goal of 49.3%. Small business awards total \$210.4M in support of the ARRA objectives.

Vendor contact information from the Passport Vendor Database has been combined with Commodity and Manufacturer information to provide Materials Buyers with a comprehensive tool to match appropriate vendors/sources to each procurement action. This tool greatly reduces time spent in developing the Potential Suppliers List for Requests for Proposal.

Material Services resolved three actions associated with QA surveillances. One was to verify use of the most current version of a Procedure, prior to referring to hard copies. Two were associated with application of a new P-Card process to purchase materials with quality attributes.

Material Services worked with Internal Audit to create a key word report that will be run each month against P-Card transactions. This new tool will aid in helping ensure contract allowable materials are purchased with P-Cards.

The SDD-51 on roles and responsibilities between CHPRC and MSA for Spare Parts was finalized.

There has been much activity in Spare Parts with respect to HEPA filters during this reporting period, including a new Cat ID and orders for filters at ETF. These are long lead-time items (typically 3-4 months). Due to a consistent failure rate during inspection, DA's in the field are ordering ~5% more than they need to cover the possibility their filters won't pass. This strategy has paid off; most recently on an order for WRAP HEPA filters, where a couple of filters were found to be out of square and another one came in with inconsistent serial number. AVS and Engineering continue to monitor quality issues.

In conjunction with PNNL and WRPS, Interface Management supported MSA's submittal of the Hanford Site Infrastructure and Services Alignment Plan (ISAP) to RL on March 1 for review and approval. The plan describes the activities necessary to integrate MSC responsibilities with those of other Hanford Site (Mission) contractors, to right-size the infrastructure and services, and to maintain the capacity of infrastructure systems provided for the Hanford Site over its life-cycle.

Interface Management issued a revision to PRC-PRO-MA-10472, *Interface Management*, to clarify the scope and purpose of the procedure and Interface Management roles and responsibilities, and to ensure requirements documented in interface agreements are incorporated into implementing procedures.

Interface Management reached agreement on and issued a revision to the CHPRC/MSA Administrative Interface Agreement for Use of Super-dump Equipment to Support CHPRC Waste Transportation and Disposal by Construction Forces. This revision reflects changes in the use of specific Super-dumps in the field and to address CHPRC's procurement of additional Super-dumps.

Interface Management reached an agreement on and issued a new Administrative Interface Agreement between CHPRC and the MSA, WCH, and WRPS documenting roles and responsibilities on the process and data needs associated with the Waste Information Data Systems.

Interface Management developed and issued for review and comment a revision to the CHPRC/MSA Water Systems Administrative Interface Agreement documenting the details of the boundaries between MSA and CHPRC responsibilities for Hanford site water system tie-ins to CHPRC facilities. The need to have better definition of these boundaries was identified as an issue as a result of a disagreement between CHPRC and MSA on responsibility for MSA was responsible for the CSB/2704HV water loop which services a combination of CHPRC and WRPS facilities.

CHPRC continued to support MSA's development of the enhanced Service Delivery Documents (SDDs) for sixty-three services provided by MSA. The enhanced SDDs, when completed, are intended to better

communicate to Project end-users the definition and cost of MSA provided services and how to obtain them.

Interface Management continued to work with MSA and the CHPRC Soil & Groundwater Remediation (S&GWR) Project on meeting committed sample short turnaround times (1-7 days). Slow analytical turnaround times is of particular concern to CHPRC as two major S&GWR Project projects (the Outer Zone Project and the 100 K Waste Sites Project) are in the initial stages of ramping up to meet associated TPA and PRC commitments associated with these projects over the next several years.

CHPRC developed the strategy and associated employee communication for addressing the issue documented in CR-2010-0361, "Based on worker feedback the vehicles current in use are bigger than necessary for task." During a recent analysis of CHPRC vehicle incidents, ensuring use of vehicles of an appropriate size was identified as an opportunity for improvement. The communication provided guidance to responsible CHPRC managers on selecting vehicles sized appropriately for the associated task and how to arrange for different vehicles if they felt the vehicles currently assigned to them were not appropriately sized for the tasks they supported.

In response to a worker concern expressed to CHPRC Management regarding inadequate access to vanpooling for daily commutes, initiated a dialog involving RL, Ben Franklin Transit, Yakima Transit, MSA, and WRPS to determine what constraints on vanpooling currently exist and how those constraints might be addressed to enable expanded access to vanpooling at Hanford.

At the request of AdvanceMed Hanford (AMH), Interface Management presented an overview briefing on CHPRC to two AMH all hands meeting. AMH requested these briefings to help their staff better understand the work scope associated with CHPRC.

As result of the recent MSA Department of Transportation (DOT) audit, it was determined that CHPRC required its' own Transportation Security Plan to meet DOT requirements. CHPRC W&FM Project has the lead for developing this new plan. During March Interface Management reviewed and commented on the draft of MP-TP-40283, Transportation Security Plan for CH2M HILL Plateau Remediation Company. A number of the comments were related to appropriately reflecting the differences between CHPRC's role as a shipper and MSA's roles as both a shipper and transporter.

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

Project Management support was provided to MSA through the management of six FY 2010 Life Cycle Upgrade projects. This PM support will be transitioned to MSA's newly formed project organization over the next two months. During the month of March, the ARRA Mobile Facilities Installation Project work effort resulted in the following accomplishments:

- Relocated three double wide mobiles from 100K West near 105KW. One of the mobiles was moved to and set up adjacent to 142K and has been turned over for occupancy. The other two mobiles were relocated to the 100K West, Site 3 and set up is complete.
- Construction contracts were awarded for civil site work and electrical at the W&FM WRAP Site and the W&FM 12B Burial Ground Site. The civil site work was completed at both of these sites and the electrical work at these sites is approximately 75% complete. These sites are both ready to begin receiving mobiles, WRAP on April 2 and 12B on April 12.
- The 100K West, Site 3 Site Preparation construction began on March 9 and was completed on March 18.
- The design for the 100K West, Site 3 civil and electrical work and the Site 4 electrical work was completed in March. Construction bids were received, a contract was awarded and a Construction Kick-Off Meeting was held in March. Construction will begin in early April.

- Design for two additional restroom mobiles at the 4<sup>th</sup> and Baltimore mobile site was completed in March. Construction bids were received in March and a contract was awarded April 1.
- Foundations and stem wall for two of the four pre-engineered metal buildings at the 200 East Unsecured Core Area were constructed during March. The structural steel for one of the buildings was completed in March and the steel for the second building was approximately 50% complete. Skinning of the first building was well under way in March.
- The 200 East Unsecured Core Area Utilities contract was awarded in late February and construction of the storm water system and the sanitary sewer are progressing well.

Central Engineering participated in the In-Process Design Review for the K-East Core Removal Project Preliminary Design. The review, led by CH Nuclear Business Group Chief Engineer David Lowe, was conducted at the SA Technology Loveland, Colorado office. An assessment close out was conducted with the SA Technology project team. A formal assessment report was provided to CHPRC project management.

Central Engineering 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.

Central Engineering completed preparations for the April 13-15 Energy Facilities Contractors Group (EFCOG) Engineering Practices Working Group (EPWOG) semi-annual meeting. Several DOE headquarters staff will be making presentations to the group. Topics to be discussed range from Draft DOE Guides (Safety Instrumented Systems, System Design Descriptions, and Fire Protection Program Criteria) to program overviews by DOE HQ senior staff to technical Best Practices for sharing across the DOE contractors' community.

Central Engineering prepared a draft letter for RL's approval to implement new seismic response spectra for the Hanford site. This new spectra will satisfy the requirements of DOE-STD-1020-2002 & DOE-STD-1189 and the SCRD O 420.1B Rev. 4, Section E (5) PRC-Natural Phenomena Hazards Mitigation for DOE Facilities.

### **Communications and Outreach**

In March, CHPRC Communications supported the Central Safety Group in launching a new driver awareness campaign called "GOAL" with writing, graphic design, presentation development and overall campaign strategy.

Communications produced the monthly newsletter, *On the Plateau*, highlighting project and worker accomplishments as well as community involvement.

Communications wrote, edited and distributed all-employee messages for various departments, projects and initiatives.

Communications coordinated the March PZAC meeting focusing on driver safety by developing the presentation, and providing messaging advice to Safety.

Communications partnered with Safety to present an all-hands meeting for SHS&Q, Waste and Fuels Management Project and Soil and Groundwater Remediation Project. These meetings included lessons learned from Trench 11.

Communications produced time lapse sequences documenting the building of the 100DX Pump and Treat Facility, shipping concrete cells at MASF, demolition of the 183 head house at the 100KW reactor.

Communications wrote and coordinated a video on the 200W Pump and Treat Project, which goes into production in April.

CHPRC Communications supported RL with numerous tours, including congressional staffers, Oregon Department of Energy staff, The Japanese Consulate, US Department of Labor and others.

CHPRC worked with MSA Communications to finalize the public tour script and agenda.

Communications worked with the Waste and Fuels “VPP” steering committee to create a management expectations and communications system leading up to a “VPP” push.

CHPRC Office of Public Affairs supported RL with Recovery Act and Outreach activities throughout the month of March.

Recovery Act support included submission of Recovery Act weekly progress reports, progress videos and newsletter article submissions for HQ. The team produced presentation slides for HQ showcasing the estimated costs, jobs and benefits for maintaining Recovery Act work through 2012 and beyond for the Plateau Remediation Contract.

CHPRC Public Affairs supported a RL media tour and produced fact sheets and video footage promoting progress of the Recovery Act-funded 100DX Groundwater Treatment Facility construction. Local media toured the facilities and featured the story on the front page of the *Tri-City Herald* as well as in the *News Tribune* and on *KNDU* and *KVEW*.

Other Communication & Outreach activities included development of groundwater information fact sheets. The fact sheets will be used to educate and inform the public and stakeholders of the groundwater operable units and the cleanup strategies associated with them.

CHPRC Public involvement included support to RL in the development of an EE/CA Responsiveness Summary and various comment period notices.

## PROJECT SUMMARIES

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

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

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

With support from Recovery Act funds, workers have now removed 44 of the 188 gloveboxes and hoods in 234-5Z, five of which are staged for size reduction and disposal as Transuranic (TRU) waste. The remainder have been packaged and/or shipped for disposal as low level waste (LLW).

**234-5Z Laboratory Areas** – Chemical decontamination was completed on six gloveboxes in Room 136 and 149 of the Analytical Laboratory. Survey results indicate four of the boxes can be disposed of as low level waste. Two boxes from Room 149 will need to be size reduced and packaged for disposal as TRU waste. A decision was also made to size reduce three hoods from Room 137. A size reduction containment is planned in Room 172 for these and other gloveboxes that cannot be disposed of as LLW.

**Plutonium Processing Areas** – In RMC Line, Glovebox HC230C-2 was separated into its three original sections. The first section was removed, transferred to solid waste operations, and loaded into an IP-2 container for disposal. In RMA Line, external equipment isolation was completed, and a large glovebag was installed on the end of conveyor Glovebox HA-28 to facilitate installation of a load-out port for internal process equipment removal.

**Infrastructure Systems** – Non-destructive assay (NDA) measurements were completed on 40 feet of process vacuum piping, and walk downs were initiated for future removal of the process transfer lines

throughout the 234-5Z Building. In addition, training and cold area mockups continued in preparation for removal of nearly a mile of heavily contaminated process vacuum system piping.

During the month of March, 657 feet of asbestos insulation was removed bringing the total for asbestos insulation removed with Recovery Act funds to more than 8,300 feet.

Installation of a large, electrically operated door and cargo seal was completed to streamline receiving of materials and shipment of waste.

Field construction forces removed a section of the former Protected Area fencing and razor wire and began mobilizing for installation of three new 300 ton chillers.

**2736Z/ZB Vault Facility** - The East and West Hoods were removed from the glovebox in Room 636 and transported to Waste Operations. In addition, glovebox process equipment removal commenced in Room 642.

**242Z – Americium Recovery Facility** - Several entries were made to remove legacy combustibles from the control room. Planning continued toward the repair of the roof and the application of contamination fixative throughout the interior of the building.

### **Base**

**236Z – Plutonium Reclamation Facility** - Canyon entries to address issues identified during functional testing of the PRF crane have been completed. Process equipment removal continued on the first and second floor east gallery gloveboxes and preparations for removal of the Pulser and Ph gloveboxes.

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

Sludge Treatment Project (STP) and 100K Operations personnel completed retrieval of Settler Tanks #4 (N3), #5 (N2), #6 (N1), and #7 (S4) during the month of March. During the retrieval from the last Settler Tank, the retrieval pump began to exhibit degradation, and a decision was made to replace the pump prior to starting the next Settler Tank. STP is currently in the process of procuring two complete spare pump skids from Parsons.

The formal design review of the knockout pot (KOP) disposition subproject Conceptual Design Report (CDR) concluded this month, following reviews by the STP External Review Panel and the CHPRC Review Team, which was lead by the CHPRC Central Engineering office and included 16 highly experienced engineering and technical personnel covering 12 different discipline areas. The review format was patterned after the successful design review of the Engineered Container Retrieval and Transportation System (ECRTS) CDR that occurred in January. In all, the review resulted in approximately 120 comments, of which only five were Type A. Comments identifying inadequate or missing requirements/assumptions will be resolved and incorporated into the design prior to CDR completion. The CDR is on schedule for completion in early April 2010.

The subcontractor modifying Maintenance and Storage Facility (MASF) for the installation of the K Basin pool replica completed removal of the 210,000 and 218,000 pound blocks, removed the internal vertical wall structure, installed the rebar, poured the final concrete for the floor, pressure washed the walls, and applied the Protoseal to the floor and walls. Fabrication of the superstructure that will sit on top of the pool to replicate the monorail systems is underway and will be delivered beginning early April.

Statements of Work for all four proof-of-concept vendors for the Phase 2 Alternatives Analysis scope have now been approved and are being worked through CHPRC procurement. All vendors have been contacted and have updated procurement information and registrations on CHPRC's procurement system, so that Request for Proposals and contracts can be issued. Efforts to integrate and coordinate the procurement and preparation of the various simulant materials that will be required to support proof-

of-concept testing have also been initiated. An initial estimate of all required materials for each vendor has been prepared. MASF and PNNL personnel are reviewing the integrated list to identify any potential supply issues.

### **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 27m<sup>3</sup> M/LLW and completed 47.0m<sup>3</sup> of M/LLW waste during the month. TRU Retrieval developed draft 4B Trench 11 Recovery Plan to gather radiological and Industrial Hygiene data (SUMMA canister samples) from site of 2/4/10 event and provide basis to move the exclusion area to the trench boundary. Next Generation Retrieval (NGR) received the ANTECH Neutron Assay trailer and equipment. Alpha Caisson Retrieval conducted an optimization session and identified potential savings associated with eliminating one shielded transfer container loading station, a drum carousel, and using a single sorting station. TRU Project repackaged 107 TRU containers, shipped 108 containers, and received 161 containers at T Plant. The Waste Receiving and Processing Facility (WRAP) completed non-destructive examination (NDE) for 343 drums and 253 non-destructive assay (NDA) drums. The Environmental Restoration Disposal Facility (ERDF) container maintenance facility completed construction and turned the facility over to operations. In addition, ten of the 14 new roll-on/roll-off-style trucks for transporting containers have arrived on site. The mixed waste disposal trenches received ten offsite shipments (43 containers) and shipped one leachate Beall tanker 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) continued support to Energy Savings Performance Contract construction demolition and upgrade activities. The Canister Storage Building completed annual inspection of Gaseous Effluent Monitoring System annubar. The Central Waste Complex (CWC) received 17 on-site transfers (702 containers), six off-site shipments (six containers), shipped six off-site shipments (61 containers), and 19 on-site transfers (728 containers). Low Level Waste Burial Grounds (LLBG) received the EX-USS South Carolina (Plant 2) Reactor Compartment from the Port of Benton to Trench 94. The 200 Area Treated Effluent Disposal Facility (TEDF) discharged 2.0M gallons. Slightly Irradiated Fuel Project issued a request for Proposal for Project W-105, Interim Storage Cask Pad #3 (Container Restraint System). The Mixed Waste Disposal Trenches completed the back fill of Trench 8.

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

#### **ARRA**

ARRA 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 March is summarized in the table below.

Activity	March		Cumulative	
	Planned	Completed	Planned	Completed
Welling drilling	21	19	93	114
Well decommissioning	13	28	77	44
200 West P&T – Final Design	4%	10%	42%	50%

200 West P&T – Construction	2%	1%	8%	6%
200 West P&T – Testing/Startup	1%	2%	9%	11%
100 DX P&T – Construction/Startup	10%	8%	39%	54%

### 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 initiated. 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 March include the following:

- 254 well locations were sampled with a total of 1,171 samples being collected
- 85 aquifer tube samples were collected from 45 tubes at 32 sites
- 11.4M gallons groundwater treated by ZP-1 treatment facility
- 15.1M gallons groundwater treated by KX treatment facility
- 8.8M gallons groundwater treated by KW treatment facility
- 11.9M gallons groundwater treated by KR-4 treatment facility
- 45.8M gallons groundwater treated by HR-3 treatment facility
- 0.77M gallons groundwater treated by DR-5 treatment facility

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

#### ARRA

Demolition of the U Plant Ancillary facilities continued with asbestos abatement and demolition preparation ongoing in 224U and 224UA.

Sampling of the soil beneath the structures for 212-N/P/R Project has been completed. Analytical results are being summarized and reports are being prepared.

Demolition activities are continuing on the lower Arid Lands Ecology (ALE) structures and continued with the utility isolation activities for the upper ALE structures. Debris pile sites cleanup activities are continuing.

Equipment size reduction activities are continuing for U Canyon.

Completed Cold and Dark of three buildings for the 200-E Project.

Remediation activities continued in the outer zone at BC Control area, CW-3 waste sites, and MG-1 waste sites. BC Control area remediated approximately 27,600 tons of soil in March; approximately 20 acres of BC control area, Zone A have been cleared to date. In Zone B, approximately 682 acres have been radiologically down posted. Excavation at one CW-3 waste site (216-N-4) continued with approximately 7,400 tons of soil removed during March. Sampling/surveys have been completed on ten Model Group (MG)-1 sites.

**Base**

Planned surveillance and maintenance (S&M) activities continue. Change out of the B Plant high-efficiency particulate air (HEPA) and pre-filters was completed on March 12.

Continued disposition evaluation of the D-10 tank in Cell 30 for movement to the Central Waste Complex.

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

Work continued on 105KE Reactor Disposition preliminary design, project definition, and regulatory documentation. Decontamination starts at the end of April 2010 and demolition starts mid-April with the removal of Trailer MO872. Continued field work for characterization of the reactor core, process tube, and port surveying.

Continued final disposition characterization at 115KE (Gas Recirculation Building); sample results were received and the final report is pending; continued asbestos removal.

Completed cold and dark activities on 117KE (Exhaust Air Filter Building).

The 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building) began asbestos removal.

Completed demolition of the 183.1KW (Head House) above-grade structure and began demolition of the below-grade structure.

Continued demolition of 183.2KW (Sedimentation Basin).

Demolition of the 183.3KW (Sand Filter) will be initiated in early April.

Demolition preparation of the 183.7KW (Tunnel) was initiated.

**Waste Sites**

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

Waste Site	Mar-10		FYTD (9/28/09 – present)	
	Tons	Loads	Tons	Loads
UPR-100-K-1 (aka 100-K-42)	0	0	9,320	640
100-K-3	3866	271	5491	391
100-K-56	1696	120	6469	478
100-K-71	3038	210	3163	219
100-K-47	3204	231	5559	407
100-K-53	0	0	0	0
116-KE-3	433	30	888	62
<b>Totals</b>	<b>12,237</b>	<b>862</b>	<b>30,890</b>	<b>2,197</b>

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

The 100-K-53 pipelines were tapped and residual glycol removed. The glycol was contained and will be processed with the remainder of the 100-K area glycol retrieved as part of deactivation of facilities.

Additional equipment and manpower was mobilized early in January to begin remediation of the waste sites near the 183.1KW head house once D4 activities are completed. The crews and equipment were partially utilized on work near the 105KE Reactor Building until the head house is available. Access for waste site remediation is expected in early April.

## Other

Continued debris removal from the K West Basin; over 415 units removed through March. The 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects have released all procurements for equipment, construction contractors have been selected, construction of the new potable/service water line inside the 100K Fence has begun, and installation of ducting material in 105KW has kicked off to support improved air quality in the basin. Fabrication of the Pall Microfiltration Unit is underway. The Air Handling Units/HEPA filtration skids were recently awarded and fabrication has begun. The procurement of components and fabrication of the skid mounted substation have begun. 100B import water line has been awarded and waiting for cultural review and approval prior to construction. Design and construction contract for the Water Treatment Building and Dual-use Water Tank was awarded.

## Base

### Facilities

Continued 116KW (Reactor Exhaust Stack) cold and dark

Completed demolition of 1724KB (Bottle Dock)

Completed demolition of the 1614K3 (Environmental Monitoring Station)

Completed demolition of the 182K (Water Reservoir Pump House) above-grade; below-grade demolition will occur this summer.

Initiated characterization of the 183KE (Chlorine Vault)

Completed 183.5KW and 183.6KW (Lime Feeder Buildings) decontamination and prepared for demolition

### Waste Sites

Completed excavation of waste site remediation of 100-K-4 Remove, Treat, and Dispose site in February 2010. A Verification Sample Instruction was issued and approved by EPA. Samples were collected and sent to the laboratory for analysis to verify the remedial action goals were attained. Sample data should be available by mid-April.

Waste Site	Mar-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. Due to a failure of deep well pump P-16, water is being supplied by a back-up deep well pump P-14. Repair parts for deep well pump P-16 are projected to arrive during the month of April after which repairs will be scheduled. All scheduled annual surveillances were conducted during the month of March. Deficiencies identified during the surveillance are being evaluated and prioritized for resolution.

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

- An independent review of proposed changes to the Decontamination and Decommissioning (D&D) Documented Safety Analysis resulted in a positive Un-reviewed Safety Question determination relating to a non-conservative assumption in plutonium solubility (rate of biological absorption) classification. A Justification for Continued Operation was developed and submitted to RL.

#### 11.05 Disposition PFP Facility - Base

##### Plutonium Reclamation Facility (PRF)

- Process equipment removal from the first and second floor east gallery gloveboxes was initiated and is approximately 20 percent complete.
- The heat detectors were removed from the Pulser charging and Room 42 column gloveboxes.
- Mock-up activities are under way for manual Pencil Tank size reduction.
- Several canyon entries were made to complete corrective actions from the crane functional testing.

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

- Completed the removal of external equipment and mechanical lines attached to conveyor HA-28 in RMA Line Room 235B.
- In RMA Line Room 232, completed gloveport activations on Glovebox HA-46 and Room 232A process wall gloveports. In addition, work continued to isolate the external process lines to Glovebox HA-46.
- In RMC Line Room 227, continued to isolate external process and chemical lines to Glovebox HC-227S.
- In RMC Line Room 230C, decontamination efforts on Glovebox HC-60 were completed and the preparatory steps were completed to start removing Glovebox HC-230C-2.
- In RADTU Room 235D, the isolation of the external utilities to GB400 were completed in preparation for the start of removing internal process equipment.

#### 234-5Z Laboratories

##### Standards Lab:

- The 221D-1, 2, 3, 4, 5 Hoods were removed from their E4 connection and fixative was applied to the interiors. These hoods have been staged for transfer to the Solid Waste Organization for disposal.
- In preparation for removal from the E4 system, fixative was applied to the interior of the 221C-3 Glovebox.

##### Analytical Lab:

- In preparation for glovebox removal from the E4 system, chemical decontamination was completed and fixative applied to Gloveboxes 136-1 and 2.
- Chemical decontamination, application of fixative, and separation from the E4 connection was completed on Glovebox 149-3. The glovebox was transferred to the Solid Waste Organization for disposal.

- Chemical decontamination of 149-1 and 2 Gloveboxes was unsuccessful in achieving Surface Contaminated Object (SCO) levels. As such, fixative was applied to the glovebox internals and the glovebox was removed and staged for size reduction.

#### **Plutonium Process Support Lab:**

- In Room 191 the contaminated drain line, lab bench, and sink were removed. This will allow removal of the 191-1, 2, 3 hoods in the future.

#### **242Z – Americium Recovery Facility**

- Several entries were made to retrieve sample bottles from the control room and remove legacy combustible materials.
- Temporary power was established in Room 108 and 108a to support upcoming tank room entries.
- Entries were made for characterization of the gloveboxes for remote handled or contact handled waste determination. The dose characterization results indicated that the TRU waste from the gloveboxes will be contact handled and will not require the use of shielded waste containers.

#### **2736Z/ZB – Vault Complex**

- Removal of the East and West Hoods from Room 636 glovebox was completed.
- Process equipment removal from Room 642 gloveboxes was initiated.

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

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

- In preparation for the XAGO Transfer System Test, MASF personnel have fabricated spool pieces for the inlet/discharge of hose pump, fabricated the skid for the pump, modified the valve rack, and determined needed pressure relief devices and place the order for the devices. Several test runs, to adjust the system and to confirm the Coanda Flow Rate on the modified tool, were conducted. Finally, initiated the installation of the control loop that will adjust the educator feed supply pressure when the flow rate drops below a set point.
- Material was received and fabrication of the retrieval developmental tool was initiated for the Overfill Retrieval Test and started setup of equipment for mockup testing and identified needed items for procurement.
- Container lid deployment test tools have been fabricated and testing completed on the first generation of the bolt removal tool.
- In support of 100K operations, MASF personnel ordered the brushes and material to fabricate components for engineering container lid modifications, to demonstrate a conceptual system that may help reduce sludge overflow in the K West basin, during the next vacuuming campaign.
- Also, in support of 100K operations, MASF personnel have received materials and fabricated a mockup process table for use in testing the hydraulic cutter for debris size reduction.
- Procurements for ECRTS test equipment placed this month include: 1) Sand Filter/Containment assembly; 2) Sludge transfer and storage containers hose-in-hose assemblies, fixtures and platform; 3) Sludge Transfer System (STS) trailer; 4) STS mockup; 5) Automated Flush System; and 6) Decant box.
- Focus group meetings have been completed to continue development of the Data Quality Objective document to support Garnet Filter media characterization. Input to the Primary Study Questions was obtained from Radiation Protection, Nuclear Safety, Transportation Safety, Environmental, and Process Design personnel.

- A work package was approved which allowed for radiation level measurements to be taken along the entire vertical height of each of the three Garnet Filters. Currently the only radiation measurement is taken at the sand/water interface. These observations will provide better indication of the distribution of the material being captured in the media.
- A calculation providing a basis to demonstrate that the planned transportation configuration for Settler Tank sludge samples will meet transportation requirements for dose rates exterior to the shipping containers was approved. This calculation also provides an analysis, to be used as an aid, during operations to determine which of the two shipping containers should be selected for a specific sample.

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

### **ARRA**

#### **13.01 Project Management**

- Training continued for the ARRA funded staff
- Continuing weekly and monthly ARRA reporting

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

- Shipped 27m<sup>3</sup> of ARRA funded MLLW to treatment facilities, and completed 47m<sup>3</sup>
- The Site Specific LDR Variance for the “P015 Drum” was issued for 21-day public comment by the WDOE
- M-91-42 TPA:
  - 14.2m<sup>3</sup> shipped and 46.0m<sup>3</sup> completed during month
  - 8,158m<sup>3</sup> shipped and 8,028m<sup>3</sup> completed since January 2003 (Base & ARRA)
- M-91-43 TPA:
  - 13.6m<sup>3</sup> shipped and 5.2m<sup>3</sup> completed during month
  - 707m<sup>3</sup> shipped and 667m<sup>3</sup> completed since January 2003 (Base & ARRA)

#### **13.05 TRU Retrieval**

- Continued work on Retrieval Corrective Action Plan to address hazard identification & control, and event response improvements.
  - Revised existing and created new procedures
  - Revised existing work packages for 3A Trench 17 container removal
  - Completed mercury sampling of 3A Trench 17 Boxes 80 & 82
  - Performed emergency preparedness drills and off normal condition drills
  - Conducted training on new/revised procedures and techniques
- Resolved installation issues and received occupancy permit for new 4B/4C restroom facility MO2323
- Developed draft 4B Trench 11 Recovery Plan to gather radiological and Industrial Hygiene data (SUMMA canister samples) from site of 2/4/10 event and provide basis to move the exclusion area to the trench boundary
- Next Generation Retrieval (NGR)
  - Received the ANTECH Neutron Assay trailer and equipment
  - Issued the Functions and Requirements Document and Rev. 1 to the Trench Face Process System (TFPS) Requirements Document
- Alpha Caisson Retrieval
  - Completed Statement of Work (SOW) for Brokk procurement (in route for approval)
  - Initiated design of the Waste Processing System with AREVA

- Initiated formal acceptable knowledge (AK) development as joint effort (Waste Services and TRU disposition); combines site and WIPP requirements
- Conducted optimization session; potential savings identified by eliminating one shielded transfer container loading station, one drum carousel, and maintaining a single sorting station

### **13.06 TRU Repackaging**

- Completed repairs to the Empty Drum Compactor and compacted 107 containers
- Shipped 108 containers from T Plant
- Received 161 containers to T Plant
- Shipped 26 LLW drums to ERDF
- Shipped one empty roll off box and two Connex boxes to ERDF

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

- Non-destructive examination (NDE) 343 drums
- Non-destructive assay (NDA) 253 Non-WIPP drums
- Completed NDA Calibration and Calibration Verification for CCP
- Continued OJT/OJE for TRUPACT II, NDE, NDA, Shipping/Receiving for nuclear chemical operators (NCOs)
- Commenced new CAM installation in Repack Process Area

### **13.10 ERDF Additional Capabilities**

- Initiated Management Assessment of maintenance facility operations on March 29
  - The objective of the assessment was to evaluate the effectiveness of the program and processes used to establish safe and compliant operations at the Maintenance Facility
  - The assessors evaluated the operational activities as well as Environmental Protection, Safety, Radiological Protection, Waste Management, Training, and Emergency Preparedness
- Ten of the 14 roll-off trucks are onsite

### **13.15 TRU Disposition**

- Hanford TRU Program Closeout surveillance completed - no issues
  - ~ 800 boxes of records ready for transfer to WIPP records
  - All records scheduled for shipment to WIPP records holding
- CCP Support:
  - Three CCP Idaho Process Knowledge (PK) documents reviewed
  - 1034 Idaho drum data sheets through Public Release process
  - All certifiable drum datasheets are cleared, or in the process of being cleared by MSA

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

- Shipped one leachate Beall tanker to ETF
- Received ten offsite shipments, 43 containers

## **Base**

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

- Waste Encapsulation and Storage Facility (WESF)
  - Continued support to Energy Savings Performance Contract construction demolition and upgrade activities
  - Completed replacement of the Pool Cell Ion Exchange (IX) resin

**13.03 Canister Storage Building**

- Completed vendor certification of Multi-Canister Overpack (MCO) Handling Machine (MHM) fall protection system
- Completed initial instructor qualification on MHM Fall Protection practical
- Completed annual inspection of Gaseous Effluent Monitoring System annubar
- Completed annual stack monitoring inspection and calibration
- Completed annual integrity testing on MCO Transport Casks #1 & #3

**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 six off-site shipments, 61 containers
- Completed 19 on-site transfers, 728 containers
- Received 17 on-site transfers, 702 containers
- Received six off-site shipments, six containers
- Completed AREVA assay campaign of seven waste containers (boxes), including one that required a critical lift plan, in the Expansion Area.
- CWC worked three swing shifts to accept road closure shipments from offsite generators. Worked one swing shift to perform recovery plan for corroded filter on a drum
- Low Level Waste Burial Grounds (LLBG)
  - 218-W-3AE – Completed the back fill of Trench 8 and 70% complete with the filling of Trench 16
  - 218-W-3AE – The rail car with the Navy Core Basket shipping device was returned by rail on 3/16
  - 218-E-12B – Received the EX-USS South Carolina (Plant 2) Reactor Compartment from the Port of Benton to Trench 94 on 3/28 and placed in final disposition on 3/30

**13.11 Liquid Effluent Facilities**

- Received (March) 113 tankers; (172K gallons)
- Treated (March) 2.6M gallons
- 200A Treated Effluent Disposal Facility (TEDF) discharged (March) 2.0M gallons
- Received ERDF leachate (~100,000 gallons) at LERF Basin 44
- Shipped 80 powder drums to the Environmental Restoration Disposal Facility
- Received 4 drums of Waste Sampling and Characterization Facility wastewater
- Maintenance activities
  - Supported installation of new PC5000 Leak Detection System (WRPS ARRA funded)
  - Repaired air operating valves on Ion Exchange Polisher A
  - Replaced failed valves on evaporator boiler
  - Repaired and replaced air vacuum relief valve on groundwater line at Manhole TL-3
  - Changed out vessel off-gas carbon adsorbers
  - Replaced ultra violet oxidation ruptured disc
  - Repaired customer waste drum pump
  - Initiated repairs to Pump Station #3, Pump 60I-P-A1
  - Initiated installation of scaffold to repair plugged line on concentrate loop
  - Initiated repairs to chemical addition pumps 65C-P-8 & 65C-P-9

- 310/340 Facilities
  - Completed Operability Acceptance Testing; working punch list items
  - Operating the Retention Transfer System (RTS); 12 batches discharged to City of Richland
  - Continued performing preventive maintenance (PM) activities at 310/340 for systems that will remain active after turnover (HVAC, fire, and compressed air)

### **13.12 Integrated Disposal Facility**

- Maintained the facility in a safe and compliant condition

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

- Slightly Irradiated Fuel (SIF)
  - Construction Request for Proposal for Project W-105, Interim Storage Cask Pad #3 (Container Restraint System), went out for bid 3/22/10
  - Pre-bid walk down was held 3/31/10 with the four interested contractors

### **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**

- Work continues on the 200W Area Pump and Treat Project 90 percent designs for the Process Facility and Balance of Plant; anticipated completion May 2010. Twenty-four road crossings have been completed. Site preparation and welding activities for the transfer piping continued. The Process Facility, intersection of Beloit and 22<sup>nd</sup> has started. Initiated mobilization for construction on the four BOP transfer buildings; Engineering released 32 drawings and 46 specifications for construction of the four BOP transfer buildings. DOE approved safety basis change to enable transfer and injection water to be transferred near the low level burial grounds; the best and final offers from the bids for the Process and Rad facilities due April 1, 2010.
- The 100-DX Pump and Treat construction is 57% complete. Construction of the process building and two transfer buildings by the fixed price contractor is complete. Electrical service installation to the buildings was completed February 9, 2010. Final tie-ins at the power poles are planned for after equipment installation is complete. Mechanical equipment installation is 50% complete, electrical installation is 25% complete. All 49 required road crossings for DX completed on March 29. Started equipment installation at individual well sites.
- The design for the 100-DX chemical addition system completed March 18. A contract modification to the building shell erection subcontractor is complete. The subcontractor began construction on the chemical treatment system civil/structural components April 7, 2010.
- Procurement and receipt of materials for the 100-DX facilities continues. A contract was awarded for the dual laminate Fiberglass Reinforced Plastic (FRP) Polyvinylidene fluoride (PVDF) lined tank for storage of sulfuric acid for the chemical addition system. This tank is scheduled to arrive on site July 22, 2010. A contract was also awarded for the carbon steel vertical storage tank for storage of sodium hydroxide on March 25. This tank is scheduled to be delivered July 1, 2010.

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

- Work continues on the Phase 2 realignment of the KR4 and KX pump-and-treat systems. 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 initiated

- Design of the first group of road crossings for the 100-HX project has been released. A contract has been placed with the MSA Transportation Services group to perform necessary road improvements to allow safe access to the construction site.

### **Environmental Programs and Strategic Planning - Base**

The Central Plateau Cleanup Strategy Tentative Agreement was signed by all Tri-Party Agencies and change packages have been prepared to be sent out for public review.

### **Risk and Modeling Integration Group**

Completed modeling in support of the groundwater protection calculations for the 200-PW-1/3/6 OU. Developed groundwater protection removal action levels (RALs) for U Plant EE/CA.

Finalized local capture zone model for S/SX plumes, presented the results to DOE-RL and planned a presentation to Ecology. In addition, the B-BX-BY Tank Farm pump-and-treat capture zone analysis in support of the treatability test design was also completed.

### **Environmental Data Management**

The Sample Data Tracking system has been updated to improve current operations dealing with sample and data management of environmental samples taken from wells and bore holes. Upgrades were made to the “Chain of Custody” section, the Quick Print form and other sections as requested.

### **Environmental Compliance**

On March 11 Ecology approved the closure plan for the 600 Area Purgewater Storage and Treatment Facility (DOE/RL-2008-73, Rev. 0). This closure plan has been in intermittent revision and discussion with Ecology for most of the past decade.

Environmental Protection Agency (EPA) approved termination of National Pollutant Discharge Elimination System (NPDES) stormwater permit coverage for the 100 K Area on March 18, ending the conduct of stormwater inspection and best management practices for the 100 K Area.

### **Well Drilling and Decommissioning – ARRA**

	March		Cumulative	
	Planned	Completed	Planned	Completed
100-NR-2	11	11	52	71
100-HR-3 H Area	2	0	14	12
100-HR-3 D Area	5	4	13	18
200-BP-5	1	2	2	3
200-ZP-1	2	1	8	6
100-BC-5	0	1	4	4
Drilling Total	21	19	93	114
Decommissioning Total	13	28	77	44

**Notes:**

- *100-HR-3 H Area:* Subcontractor will remobilize in April after Eagle Nesting.
- *200-ZP-1 Expansion:* Currently, nine of 17 wells have been initiated. Additional drill rigs mobilized to recover schedule.

**River Corridor****100-BC-5 Operable Unit - Base**

- Extensive reorganization of the Draft A 100-BC Operable Units Work Plan Addendum was completed to satisfy the EPA requested format, and all of the comment responses were incorporated into the Rev. 0 versions of the work plan and associated SAP. The documents were finalized and approved by RL and EPA on March 23.
- Planning is underway for recently approved RI/FS work plan field-investigation activities. This field work will support the development of the RI/FS Report and Proposed Plan that are due November 30, 2011 under TPA target milestone M-15-68-T01.
- Three new clusters of aquifer tubes (three depths at each site) were installed in late March. Two of the clusters (C7718, 19, 20 and C7724, 25, 26) are within the segment of shoreline impacted by the chromium and strontium-90 plumes. The third cluster (C7780, 81, 82) is located near the downstream boundaries of those plumes. The new aquifer tubes will be sampled in late summer.
- The summary report for the 100-B-27 excavation-site field sampling activities was revised following internal review, and the resulting document is under the final approval and release process.
- Wells 199-B8-7 and 199-B8-8 were decommissioned in preparation for 100-C-7 waste-site remediation activities.

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

- Acceptance testing field checks of 100-KR-4 pump-and-treat system components impacted by Phase 2 realignment were completed, and flow through the 100-KR-4 system was restored to full capacity (300 gpm). Extraction wells 199-K-144, 199-K-145, and 199-K-162 now flow through the 100-KR-4 system, having been switched from the KX system during Phase 2 construction to address tritium concerns.
- KX transfer building 1 continued to operate at reduced flow due to construction.
- Area of Potential Effect (APE) notification regarding proposed locations of three of the four planned Phase 3 realignment wells sent out this month for cultural resources review. RL comments incorporated into the draft revision to the KR4 pump-and-treat system cultural treatment plan (DOE/RL-96-44) and being prepared for issuance. This revision was conducted with consultation with Tribal Nations and revises the 1996 plan to include updated information about cultural and historic resources in the 100-K Area (and vicinity), as well as updated information about the ongoing groundwater remedial actions in the area.
- TPA change package M-16-09-10 was approved on March 25, creating two new TPA Milestones, M-15-115 and M-015-116. M-015-115 includes a test plan for in-situ bioremediation at 100-D Area, and M-015-116 includes a test plan for bio-infiltration at 100-K. These two new milestones replace the deleted M-016-155 Milestone for a revised RD/RA work Plan for 100 Area interim remedial actions. Work planning has been initiated to prepare the bio-infiltration treatability test at 100-KW.

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

- Additional informal regulator (Ecology and EPA) comments were received in March on the recently revised NR-1/2 OU Proposed Plan to Amend the Interim ROD. The document has again been revised to address these additional comments in an effort to finalize as Rev. 0. An expedited schedule has been developed to meet a goal to have the IROD amended by September.
- The 100-N Operable Units Work Plan Addendum and Sampling and Analysis Plan (SAP), as transmitted in December, were reviewed by Ecology and the resulting comments were received in February. Comment responses have been developed, and these responses are being incorporated into a Draft B version of the document for submittal to Ecology in mid-to-late April.
- Internal review of the 100-N Integrated Sampling and Analysis Plan has been completed, and a resulting revision is complete. The document is being produced as a Draft A for submittal to RL, alongside the 100-N RI/FS Work Plan Addendum and SAP, by mid-to-late April.
- Core samples collected (as part of the 171 well drilling campaign) in February to support evaluation of the Jet Injection test are being analyzed by Pacific Northwest National Laboratory (PNNL). All related aquifer-tube sampling activities, as required by the Jet Injection Treatability Test Plan (TTP), are now complete. All results will be incorporated into a final test report, which has been initiated.
- A contract has been awarded for fabrication of the injection system for the Apatite Barrier expansion. Procurement has begun, and actual fabrication is expected to start in April. The draft TTP for allowing the future apatite Permeable Reactive Barrier (PRB) expansion activities has been produced for Draft A issuance.
- Total petroleum hydrocarbon (TPH) studies are continuing with Pacific Northwest National Laboratory (PNNL) as planned. This work has been extended to summer 2010 to allow results from recently collected groundwater samples (collected from new wells installed along the TPH portion of the river shoreline as part of the 171 well drilling campaign) to be included into the study.

**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. Until these modifications are completed, the HR-3 system will run in its pre-test configuration.
- DR-5 suspended operations after exceeding the 48 ppb effluent discharge limit. Personnel are evaluating the cause of the exceedances and performing a full regeneration of the system.
- Design activities continued on the HX pump and treat facility, with progress continuing on the walk down, routing and design of HDPE pipe runs and road crossings. The cultural review documentation has been submitted by RL to the tribal nations for review.
- Treatability Test Plans are being prepared to support design testing of in-situ bioremediation and a sub-grade bioreactor technology within the area of the southern D “hot-spot” plume. Meetings were held with RL, Ecology, and EPA to present the approach for the test. Useful feedback was provided guide development of the treatability test plan required by newly approved TPA Milestone M-015-115. Design efforts continue, with a 30% design to be complete in early April.
- The transitional-stage spatial and temporal groundwater sampling event was completed, and additional informational sampling was conducted in wells at the PNNL Biostimulation study site and the 128-H-1 burn pit.
- The D/H Addendum 1 to the 100 Area Integrated RI/FS Work Plan was approved on March 25.

**100-FR-3 Operable Unit - Base**

- Extensive reorganization of the Draft A 100-F & IU-2/6 Operable Units (OU) Work Plan Addendum was completed to satisfy the EPA requested format, and all of the comment responses have been incorporated into the Rev. 0 versions of the work plan and associated SAP. The documents are being prepared for release and approval.
- Planning is underway for RI/FS work plan field-investigation activities. This field work will support the development of the RI/FS Report and Proposed Plan that are due November 30, 2011 under TPA target milestone M-15-64-T01. As part of this effort, final preparations were completed to initiate the first round of spatial and temporal groundwater sampling from existing wells in April for IU-2/6 OUs.

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

- The RI/FS Work Plan and SAP Rev. 0 is being prepared and is scheduled for signature on April 15, 2010. Drilling is scheduled to begin in late April. The PNNL tracer infiltration study began on March 5, 2010 and is ongoing, but behind schedule due to unanticipated infiltration impediments. An engineered lithology will be emplaced at the bottom of the existing excavation at 618-1 in May and will be used in subsequent treatability test plans to evaluate remediation technology delivery mechanisms.

**Central Plateau****200-UP-1 Operable Unit - Base**

- DOE transmitted the final approved Rev. 3 200-UP-1 OU Groundwater Remedial Design/Remedial Action Work Plan (DOE/RL-97-36) to Ecology on March 16. Procured services to design the extraction system for remediation of the Tc-99 plumes in the vicinity of Waste Management Area (WMA) S-SX. Performed Tc-99 plume capture zone analyses to optimize extraction well locations.
- Completed a chemical treatment of the U Plant extraction wells to remove scale buildup on screens and enhance pumping rate.
- Continued preparation of the 200-UP-1 OU RI/FS report. Met with EPA and Ecology on March 18 to present our proposed approach for preparing the 200-UP-1 Proposed Plan for the purpose of amending the 200-ZP-1 ROD. EPA concurred with the approach.

**200-BP-5 Operable Unit – Base**

- The final draft 200-BP-5 conceptual model report was provided to DOE on March 15 for a final review. DOE requested a one month extension to facilitate regulator, Tribal and Oregon feedback. A regulator and Tribal briefing meeting has been scheduled for April 20, 2010
- Lab analyses for K and L well samples are complete. M well sample analyses continued.
- Twelve of the 14 wells planned for depth discrete groundwater sampling were completed.

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

- Completed the DOE review of the decisional draft 200-PO-1 Groundwater OU RI Report, DOE/RL-2009-85. Comments are in the process of being dispositioned and incorporated to produce the Draft A.

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

- Eleven of the 14 groundwater extraction wells are on line pumping water at a rate of approximately 240 gpm.
- New extraction wells EW-6 (299-W11-50, C7020), EW-7 (299-W11-90, C7022), EW-9 (299-W17-3, C7577), EW-10 (299-W17-2, C7576), and EW-12 (299-W11-49, C7019) are currently at a depth of 186.6 ft, 526 ft, 367 ft, 286 ft, and 433 ft respectively.
- EPA is currently reviewing the Performance Monitoring Plan and Operation and Maintenance (O&M) Plan. EPA has requested an extension for the Performance Monitoring Plan. Comments on the O&M Plan are due back May 14, 2010.
- Two separate test plans are currently being prepared to support laboratory testing of resins for uranium removal, and activated carbon for Tc-99 removal.
- Preparing simulator based training program for the 200-West Area Groundwater Treatment Facility.
- Performing new GW modeling runs that include selected interim injection/extraction wells.

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

- PW-1 active SVE operations continue.

**Regulatory Decisions and Integration - Base**

- Issued the 200-BC-1 Excavation Treatability Test Report.
- Submitted 200-CW-5 Feasibility Study Draft C to DOE for Review.
- Completed Conceptual Site Models for the 200-BC-1 Feasibility Study.
- Held two workshops with EPA and Ecology to present methodology for screening hazardous constituents for groundwater modeling.
- Continue the Tier I and Tier II sample analysis by PNNL for the K, L, and M wells.
- Work continues with the RL/Ecology working groups, including EPA participation, to resolve comments on the SWL and NRDWL closure plans. The workshops to produce draft closure plans for public comment are scheduled to begin the week of April 12, 2010.
- Completed soil sampling of 200-CW-1 Outer Area Ponds and Gable Pond pipeline. The Inner Area ponds and the Gable Pond pipeline samples are scheduled to be completed in April.
- Submitted West Lake Draft A SAP to RL for transmittal to Ecology for comment.
- Resolved Ecology's comments on the 200-MG-1 Action Memorandum for 37 waste sites in the Outer Area.
- Submitted the decisional draft Closure Plan for the Hexone Storage and Treatment Facility to RL for review.

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

Work continues on the deep vadose zone project including the pilot test, characterization test report, desiccation lab testing, uranium sequestration, soil flushing and grouting. The following summarize key accomplishment for March:

- Drilling of the 20 boreholes needed for instrumenting and logging for the pilot test continued with completion of nine (of ten) four inch boreholes for logging and completion of two (of ten) six inch instrument boreholes.
- Field work for the 13.8 KV power supply to the BC Cribs Desiccation Pilot Test area was initiated on March 29. This will operate the three phase 480 volt equipment used in the pilot test. Field work for the electrical upgrade will be completed in April.

- The test report on Characterization of the Soil Desiccation Pilot Test Site was formally transmitted to RL on March 2, 2010, satisfying one of the completion criteria for draft PI RL-0030-08-1a.1 due March 15, 2010.
- Development of the DQO supporting the Uranium Sequestration field test is ongoing (approximately 60% complete at this time).

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

### **ARRA**

- U Plant Regional Closure Zone (U Ancillary Facilities D&D)
  - Continued demolition preparation activities in 224U and 224UA.
  - Continued asbestos abatement activities in 224U and 224UA.
- U Canyon Demolition and Cell 30 Disposition
  - Equipment size reduction activities continue.
  - Started cost estimates and schedules for the disposition of Cell 30 Baseline Change Request.
  - 90% design for equipment size reduction was submitted to RL and EPA. Comments were received and are in resolution.
- 212-N/P/R Buildings D&D
  - A data summary for excavation site sampling was prepared and provided to RL and EPA to gain concurrence to backfill. Concurrence was received. Response action completion report for building removal has been prepared and routed through internal review. Comment resolution is underway. RL review and comment period to follow.
- 200-E Project
  - Began 209E characterization and Cold and Dark planning activities. Started asbestos abatement in 272E.
- 200-CW-3 Waste Sites Sampling
  - Excavation of the second remove, treat, and dispose (RTD) site (216-N-4) continued in March. Approximately 15,760 tons of soil has been removed and transferred to the Environmental Restoration Disposal Facility (ERDF).
  - Closure Documents for sites 2607-N/P/R were prepared, approved by RL and EPA, and entered into the Administrative Record.
  - Preparation of the response action completion documentation for waste site 216-N-1 is underway.
- ALE D&D
  - Continued demolition activities on the lower ALE facilities.
  - Began asbestos abatement activities on Upper ALE facilities.
  - Began debris pile removal on lower ALE.
  - Completed Cold and Dark on two upper ALE facilities.
- BCCA Waste Site Remediation
  - Remediation using super dump trucks continued with approximately 78,000 tons cumulative to date of soil removed and transferred to ERDF.
  - As a result of the helicopter survey and on-going radiological surveys per the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), 682 acres in the 6.7 square mile Zone B have been radiologically down-posted.

- **MG-1**
  - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 have been prepared and undergone internal review. Comment resolution is in progress with RL review to follow.
  - Waste site closure documentation for 200-E-101 was completed, submitted to RL and Ecology, approved and entered into the Administrative Record.
  - Preparations for RTD of site 600-40 are ongoing with an anticipated start during April
  - The Action Memorandum for the next MG-1 sites is at Ecology for final approval. The Remedial Action Work Plan (RAWP) and Sampling Analysis Plan (SAP) are to follow Action Memorandum (AM) approval.
  - Site 600-218 Confirmatory Sampling No Further Action (CSNFA) sample results indicate RTD is required. Additional sampling was performed to evaluate the extent of RTD. RTD planning is in process. Cultural review is underway.
  - Verification sampling of site 600-36 was performed in February to determine whether remediation was complete. Post-RTD sampling results for site 600-36 indicated that additional excavation was required. The additional excavation was performed March 30. Re-sampling will be performed to verify completion.
  - CSNA sampling of site 600-262 was performed at depth utilizing an auger. Results are pending.
  - Sampling of the CSNFA site 600-38 was completed with results indicating RTD will be required. RTD design and planning are underway. The Sampling Instruction (SI) was issued for site 200-W-33 and sampling was performed on March 16. Results are pending.
  - The SI was issued for site 600-37 and sampling was performed on March 22. Results are pending.

#### **Base**

- **S&M**
  - Change-out of the B Plant HEPA and pre-filters was completed on March 12.

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

##### **ARRA**

##### **Facilities**

- Continued design, project definition, and pre-characterization work of 105KE Reactor Disposition. Deactivation work was completed.
- Isotope sample results for 115KE (Gas Recirculation Building) were received; the final characterization report should be issued in early April. Asbestos work progressed well, with only two asbestos-wrapped tanks remaining to be decontaminated.
- The 116KE (Reactor Exhaust Stack) demolition explosives vendor visited the Hanford Site and submitted their bid. Contract award is expected in early April.
- Completed cold and dark at 117KE (Exhaust Air Filter Building). The demolition work package was initiated.
- Below-grade asbestos removal was initiated in the 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building).
- Completed above-grade demolition of the 183.1KW (Head House) and initiated the below-grade demolition, removing much of the west wall. Once the -3 foot demolition is done (anticipated early April), adjacent waste site remediation will begin. Once the adjacent waste site is remediated, the remainder of the below-grade demolition can be performed.

- Demolition continues on 183.2KW (Sedimentation Basin), where stem wall removal has been done, with floor removal in process. The 183.2KW walls adjacent to the 183.1KW and 183.3KW will be removed concurrent with removal of those facilities, to ensure structural integrity throughout the demolition process. The “paddle” waste has been shipped to ERDF. The concrete rubble is being stock-piled alongside the excavation. A processor will be utilized to separate the rebar for shipment to ERDF, while the residual concrete will be utilized as clean fill at U-Plant (originally the concrete was also slated for disposal at ERDF).
- Demolition of the 183.3KW (Filter Basin) is anticipated to begin in early April, which will allow the end wall of the 183.2KW to be simultaneously removed.
- Demolition preparation for the 183.7KW (Tunnel) was initiated.

#### **Waste Sites**

- Remediation continued on waste sites within 100-K Area. Production rates increased due to increased access to waste sites after D-4. There is also increased contaminated soil to clean as overburden soil ratios have been higher than anticipated. This caused more waste disposal than planned.

#### **Other**

- The 100K Area Electrical Power Isolation has reached the final design phase. Design is complete for the K West Basin Airborne Contamination Remediation Projects and 100K River Water Infrastructure Isolation Project. The Air Handling Units/HEPA filtration contracts were awarded. The procurement of components and fabrication of the skid mounted mobile substation was awarded. 100B import water line was awarded and is waiting for cultural review and approval prior to construction. The contracts for design and construction of the Water Treatment Building and Dual-use Water Tank were awarded.
- Completed 225 of 285 units of the second Debris campaign for a total of 415 units removed to date.

#### **Base Facilities**

- Continued 116KW (Reactor Exhaust Stack) cold and dark; the Facility Hazards Categorization and electrical isolation are in process. This stack is included as an option in the 116KE explosive demolition contract to be awarded in early April.
- Completed demolition of 1614K3 (Environmental Monitoring Station). This facility is in the FY 2013 baseline, but was accelerated due to its proximity to other facilities in the demolition process.
- Completed demolition of 1724KB (Bottle Dock), four months ahead of the August baseline date.
- Completed 182K (Water Reservoir Pump House) above-grade demolition; below-grade demolition cannot commence until the new utility systems are operational this summer.
- Initiated characterization of the 183KE (Chlorine Vault), with the final report anticipated mid-April. Deactivation is expected to begin in late April.
- Completed 183.5KW and 183.6KW (Lime Feeder Buildings) decontamination. Revised pedestrian walkways were developed. Demolition work packages were completed, and demolition of 183.6KW is anticipated in early April with 183.5KW demolition to follow. Leased facility MO872 was disconnected and will be removed from that site in early April. This will allow easier access to the 105KE Reactor.

#### **Waste Sites**

- Excavation is complete on 100-K-4 (Group 2 Waste Site).

## 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 is not currently available. Plans to ready the PFP complex for demolition rely heavily on decontamination of the majority of gloveboxes and hoods to low-level waste, followed by direct disposal at the Environmental Restoration Disposal Facility (ERDF).

**Corrective Action:** A contract has been awarded for testing of Aspigel® to determine its suitability for use as a supplemental decontamination agent at PFP. Preliminary test results have been reviewed and appear promising. The final report is expected during the second week of April. PFP will also be observing a demonstration of another product, Decon Gel, at 100K in late May or early June. An alternate approach for characterizing and transporting gloveboxes for disposal at ERDF using the Contaminated Equipment – Special Package Authorization is also being used.

**Issue Statement** – Implementation of the SCO process at PFP has limited the utilization and effectiveness of this program.

**Corrective Action** – Regulations and policy associated with this process are being reviewed to determine a path forward that will allow full utilization of the SCO process. Changes to the implementing procedure are in progress, with completion planned for July 2010.

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

**Issue Statement** – RL determined Trench Face Processing System is Major Modification to Low-Level Burial Grounds

**Corrective Actions** – Receive RL approval of Safety Design Strategy

**Status** – Additional documents required and potential 6-month schedule impact due to contracted RL review durations

**Issue Statement** – Completion of April milestone for NGR start-up in 12B is at risk.

**Corrective Actions** – Develop critical path startup schedule (complete). Realign resources and update milestone if required (April 2010).

**Status** – Delay impacts achieving planned retrieval volumes.

**Issue Statement** – Retrieval Operations stand-down was directed due to week of 2/1/10 events in 4B Trench 11.

**Corrective Actions** – Develop Retrieval Corrective Action Plan (CAP).

**Status** – Excavation and removal activities on hold until hazard identification & control, and event response improvements have been completed which impacts retrieval volume targets and milestones.

**Issue Statement** – NGR Trench Face Process System regulatory strategy and containment tent exhauster Notice of Construction (NOC) permit are not complete.

**Corrective Actions** – Develop path-forward for regulatory strategy with Environmental Compliance & Ecology (February 2010). Determine if exhauster will be “post-startup” item. Submit NOC changes to Environmental Compliance. Formally submit NOC to RL for transmittal to WDOH (April 2010).

**Status** – Regulatory strategy could delay startup schedule. NOC is needed to initiate exhauster procurement and could impact startup schedule; exhauster not available until Fall 2010.

**Issue Statement** – Contract issues with AREVA delayed start of preliminary design for Alpha Caisson Project Waste Processing System.

**Corrective Actions** – Evaluate schedule crash/fast-track options to not impact critical path for Project (October 2010).

**Status** – Potential 4-week Project schedule impact.

### **RL-0030 Soil & Groundwater Remediation Project**

**Issue** – RI/FS Work Plans and SAPs for 5 of 6 river OUs are now approved by RL and the OU regulatory authority. Continued planning is ongoing, contracts are and have been issued, and field work is imminent or underway for many of the RI activities. There have been client and/or regulator requests to modify the sampling approach, following RL and regulatory approval of the RI/FS and SAP documents. These changes result in increased sampling/analysis costs as well as the need for last minute modifications to documents including TPA change notices, drilling contracts of which some are already awarded, sampling instructions, and field resource planning. A specific example is the request for significant additional vadose sampling for seven RI wells in the KR-4 OU beyond what was agreed to in the SAP approved on January 19, 2010. The request was identified last week just as the Notice to Proceed (NTP) was given to the drilling contractor. If pursued, the request will cause significant change control and rework. The RI/FS efforts are already on an extremely tight schedule to meet TPA target milestones for the RI/FS Reports and Proposed Plans (e.g., KR-4 due 7/31/11).

**Corrective Action** – CHPRC is committed to responding to required changes to ensure the implementation and quality of RI field work. The corrective action includes the early identification of modifications to the approved documents and obtaining technical direction from RL for changes to approved Work Plans and SAPs. CHPRC can then appropriately identify how the work will proceed in terms of cost and schedule and to update documents, modify field contracts, rework field instructions, and realign resources. Impact to the TPA target milestone(s) will also be evaluated.

**Status** – Resolution for the KR-4 scope change request is underway with identification of the need to request technical direction from the client; while on parallel path, identifying scope, cost, and schedule impacts, initiating a TPA Change Notice (CN), modification of drilling contract and field planning, and integration with Washington Closure Hanford (WCH) to modify their Work Order.

**Issue** – The NRDWL and SWL Closure Plans have been delayed due to prolonged indecision on the regulatory path forward and scheduling conflicts for workshops to finalize comment incorporation. Public review of these documents will be further impacted by delays in completion of the Environmental Assessment (EA) and RL's commitment to extend the public review for the EA to 45 days.

**Corrective Action** – Meetings have been scheduled with RL and Ecology to finalize these documents and begin the public review (see status).

**Status** – The workshop with Ecology to resolve comments on the NRDWL and SWL closure plans has been rescheduled for the week of April 19 (originally scheduled for the week of March 29). The goal is to continue this workshop until all comments have been resolved to eliminate future scheduling difficulties. A meeting has been scheduled with RL on April 19 to resolve any remaining comments on the EA before finalization, which will support a public review schedule beginning May 1. Impact of recent RL commitments to provide a presentation to the Tribe before public review and extend the public review period to 45-days is under evaluation.

**Issue** – As a result of discussions with RL and the regulators, the treatability test plans must be revised to support higher visibility by regulators, and potentially, the public. These changes are directly related to the cancellation of the hexavalent chromium focused feasibility study and proposed plan.

**Corrective Action** – Internal meetings have been held to reorganize the documents, and add material appropriate to withstand additional scrutiny by regulators and the public. A meeting will be held with RL the week of March 8 to describe the changes anticipated to the test plans. Outcome from this meeting will guide the revision of the test plans.

**Status** – Revision to the documents is underway to support newly approved TPA milestone M-015-115. This milestone is due August 30, 2010. The new milestone date provides adequate time to deliver a treatability test plan sufficient to withstand the additional scrutiny expected by regulators and the public.

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

**Issue Statement** – Determination of a disposition path for the D-10 tank in Cell 30 has potential to be major impact on the U Canyon disposition schedule.

**Corrective Action** – CHPRC is working to define an alternate disposition path.

**Status** – Parallel activities of equipment placement continue.

#### **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 is tied to higher-than-anticipated contamination levels (which has led to working under hazard category three controls and diminished productivity, both of which are leading to schedule growth and increased costs) has not been resolvable to date. Efforts are ongoing to improve the productivity by ensuring the containers are loaded to their maximum weight without going over the legal load limits. This yields a higher ton-per-container average with some influence on overall schedule. Removal of the source term (contamination on the discharge chute concrete) by scabbling will also improve production rates. Preliminary samples are being taken at depth to clarify the overall nature and extent of contamination to support the development of the baseline change request/request for equitable adjustment.

**Status** – With the scabbling and floor removal activity to be initiated in May, production rates should gradually increase with the removal of that source term. Information on the overall nature and extent of contamination is being considered in the development of the baseline change request/request for equitable adjustment.

**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. Through March, 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/request for equitable adjustment associated with the UPR-100-K-1 issue above or subsequent baseline change request/request for equitable adjustment as needed.

**Status** – Work in progress.

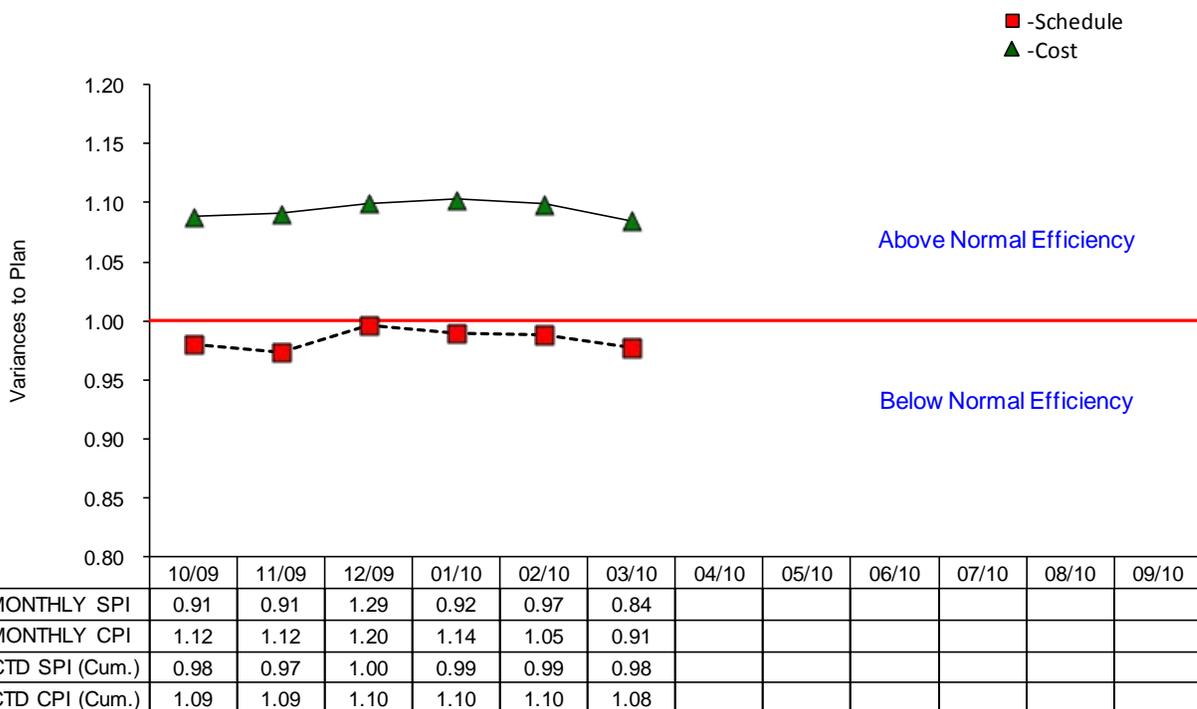
**Issue Statement** – Approximately ten new sites have been discovered where radiological or chemical contaminants are being found above cleanup standards.

**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 the request for equitable adjustment process. Additional sites (i.e., 100-K-97) will be added via baseline change request/request for equitable processes as they are encountered and defined.

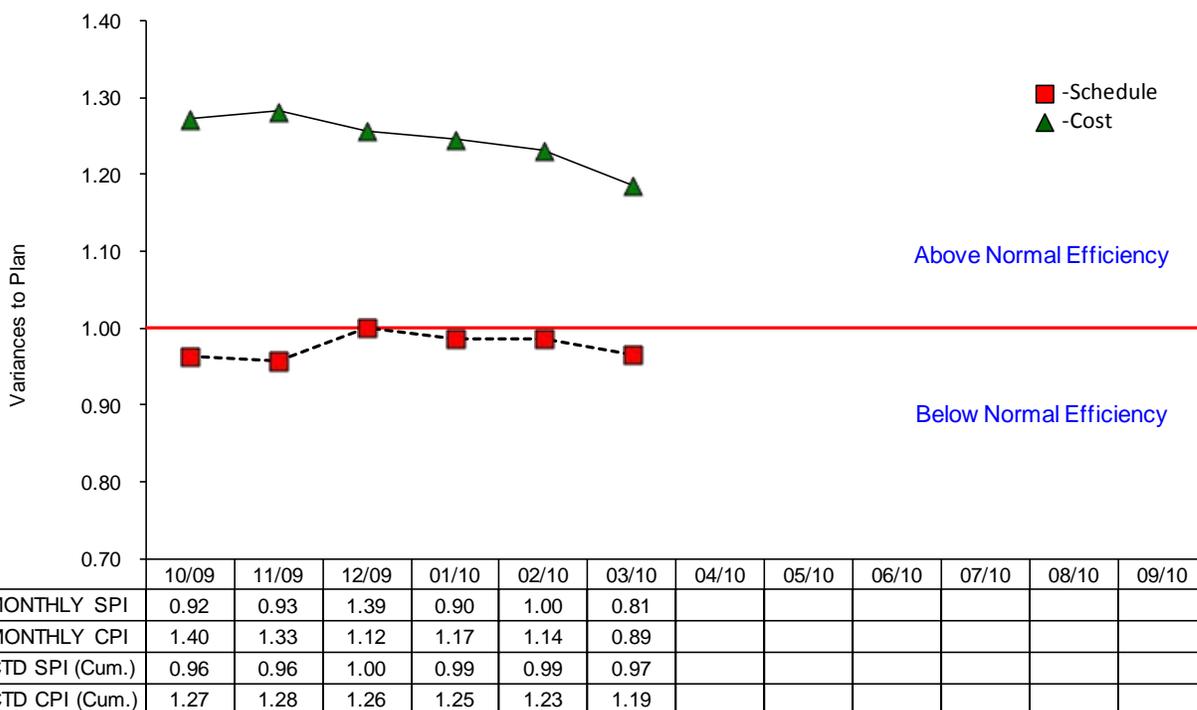
**Status** – BCR/REA process continues.

## EARNED VALUE MANAGEMENT

### Schedule and Cost Performance Indices



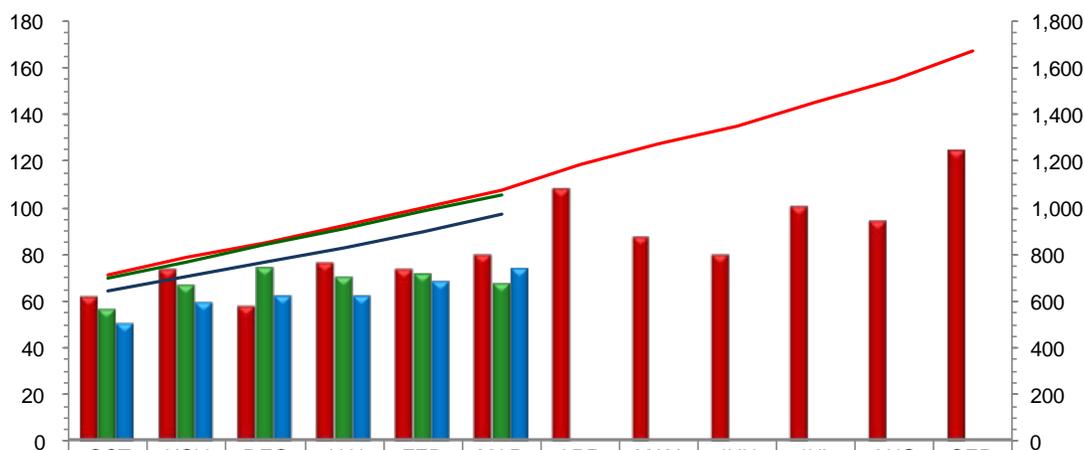
### Schedule and Cost Performance Indices - ARRA



### Schedule and Cost Performance

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)

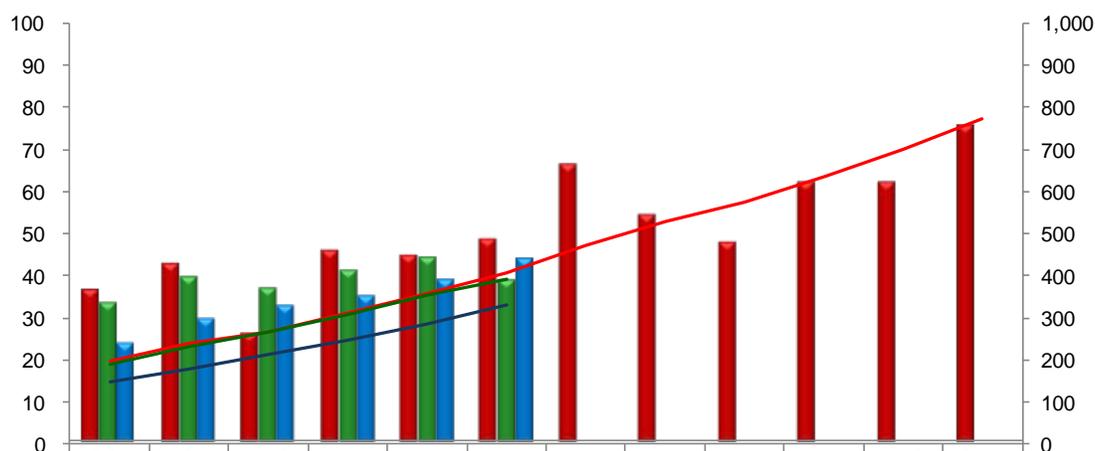


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	62.1	73.4	57.7	76.8	73.7	80.0	107.8	87.6	80.0	100.3	94.6	124.4
MONTHLY BCWP	56.4	66.6	74.7	70.6	71.7	67.4						
MONTHLY ACWP	50.3	59.6	62.1	62.0	68.4	73.9						
CUMULATIVE BCWS	715.5	788.9	846.7	923.5	997.2	1,077	1,185	1,272	1,352	1,452	1,547	1,671
CTD BCWP	701.8	768.4	843.1	913.7	985.4	1,052						
CTD ACWP	644.8	704.4	766.5	828.5	896.9	970.8						

### 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	66.3	54.5	47.8	61.8	62.1	75.3
MONTHLY BCWP	33.9	39.9	37.1	41.3	44.5	39.1						
MONTHLY ACWP	24.3	30.0	33.1	35.1	39.0	43.9						
CUMULATIVE BCWS	198.2	241.1	267.7	313.7	358.4	406.8	473.1	527.6	575.4	637.2	699.3	774.6
CTD BCWP	190.8	230.7	267.8	309.0	353.6	392.6						
CTD ACWP	150.0	179.9	213.1	248.2	287.2	331.1						

## Performance Analysis – March

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

	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	9.3	9.3	8.7	(0.0)	0.6
RL-0013 - MLLW Treatment	1.6	1.9	1.9	0.3	(0.0)
RL-0013 - TRU Waste	8.0	5.6	8.3	(2.4)	(2.8)
RL-0030 - Soil and Groundwater	9.0	7.1	8.5	(1.8)	(1.3)
RL-0040 - U Plant/Other D&D	6.5	5.7	6.3	(0.8)	(0.7)
RL-0040 - Outer Zone D&D	3.6	2.2	3.4	(1.5)	(1.2)
RL-0041 - 100K Area Remediation	10.5	7.3	6.7	(3.1)	0.6
<b>Subtotal</b>	<b>48.4</b>	<b>39.1</b>	<b>43.9</b>	<b>(9.4)</b>	<b>(4.8)</b>
<b>Fee</b>			<b>(0.4)</b>		
<b>Total</b>			<b>43.4</b>		

### ARRA

The Current Month unfavorable Schedule Variance (-\$9.4M/-19.4%) reflects:

- The RL-0041 negative variance (-\$3.1M) reflects:
  - 100K Area Project (Facilities and Others) variance (-\$2.5M) is primarily due to Utilities (-\$3.3M) where award of several contracts was delayed due to late release of design media for contact bid proposal submittals; Facilities (-\$1.3M) due to slipping start of demolition on the 183.3KW Filter Basin several weeks as new safety pathways and lighting along the West wall were established, 115KE Gas Recirculation Building where asbestos decontamination is continuing, and 117KE Exhaust Air Filter Building additional sampling requirements extending the duration, and the 116KE Stack demolition contract award slipping into early April; and 105KE Reactor (-\$0.4M) due to Insulators being unavailable for asbestos abatement. This is offset by the K West Deactivation (+\$2.5M) due to removing smaller debris units first. Additionally, the Debris Disposition project having experienced staff members (the baseline assumed a staff that would not be experienced in debris removal operations, so a learning curve was built in to the schedule).
  - Waste Sites (-\$0.6M) variance is due to a point adjustment from implementation of BCR –PRC-10-027R0 and unavailability of the head house area due to demolition delays. Crews were ready but the area was inaccessible for excavation due to other work.
- The RL-0040 negative variance (-\$2.3M) reflects the following subproject performance:
  - ARRA RL-0040.RI.2 Outer Zone D&D variance (-\$1.5M) is due to delays in development of documentation required for remediation of the 600 Area old Central Landfill (-\$1.4M) and the slow rate of progress on the BC Control Area due to the greater depth of contamination resulting in more soil being removed per acre remediated. Also, the ALE Facilities (-\$0.2M) is behind due to the delayed start for the 614 Building demolition.

- ARRA RL-0040.R1.1 U Plant/Other D&D variance (-\$0.8M) is primarily due to finalizing a disposition path forward on Cell 30 (-\$0.6M) for the U Canyon project. A Baseline Change Request is being processed to address removing the tank and sending it to T Plant for treatment. Also, the 200-E Administration Project (-\$0.4M) has experienced delays due to limited insulators who are still working at the U Ancillary Project. The 209-E Project (-\$0.1M) also is slightly behind. This is offset by a positive variance for Capital Equipment (+\$0.3M) and U Ancillary (+0.1M).
- The RL-0013 negative variance (-\$2.1M) reflects the following subproject performance:
  - RL-0013 TRU Waste variance (-\$2.4M) is due to continued delayed progress in transuranic (TRU) Retrieve and Next Generation TRU Retrieval (NGR) due to recovery actions for unknown object and upset conditions, couple with understatements in performance for NGR staffing training, and, delays in the initiation of full CCP characterization.
  - RL-0013 MLLW Treatment variance (+\$0.3M) is within reporting thresholds.
- The primary contributors to the negative variance (-\$1.8M) in RL-0030 that exceed reporting thresholds are as follows:
  - 200-ZP-1 Operable Unit (-\$1.0M) due to delays in vendor fabrication of long lead process equipment; focus of the engineering design team has been on the completion of the 90% design, resulting in delays to engineering review of submittals; installation HDPE, fiber optical, and electrical cable is progressing slower than planned; completion of the first fluidized bed system completed in earlier months that was scheduled to be completed in March; and a slight delay in the mobilization of the contractor for construction of the transfer buildings. The impact of these delays is being evaluated to determine overall impact to construction completion. TPA milestone M-016-122 is on schedule for completion on December 31, 2011.
  - Ramp-up and Transition (-\$0.5M) The Soil & Groundwater building concrete foundation which was placed in February 2010 required removal this month. The foundation had been installed incorrectly due to misinterpretation of drawings. Performance was therefore adjusted to reflect the re-work with an estimated schedule slip of approximately six weeks; the contractor is struggling to fully staff the EPC1 Shop construction activities resulting in a schedule slip of approximately three weeks; the subcontractor reports a two-week schedule slip of utility completion due to JSA issues being resolved; design and specification for interiors of certain buildings is slightly behind schedule due to lack of Mechanical Engineering resources; and delays in finalizing layout of Phase IV mobile units is causing schedule delays. The project team meetings have taken place and corrective actions identified to avoid further slips.
  - 100 HR-3 Operable Unit (-\$0.5M) Distribution of electricity and piping for DX pump and treat was planned in March but completed earlier; delays installing equipment in process facility due to late delivery of pumps and first set of ion exchange trains; and partially offset by the positive schedule variance in March for installation of equipment at M1 and M2 transfer buildings. These variances will not impact the projected completion of the project.
  - (+\$0.3M) due to efficiencies obtained in well drilling. Sonic drilling methodology has allowed wells to be drilled more rapidly (cable tool drilling methodology used in the past).
  - The RL-0011 negative variance (-\$0.0M) is within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$4.8M/-12.3%) reflects:

- The RL-0013 negative variance (-\$2.8M) reflect the following subproject performance:
  - RL-0013 MLLW Treatment variance (-\$0.0M) is within reporting thresholds.
  - RL-0013 TRU Waste variance (-\$2.8M) is continuing to incur costs without making progress in TRU Retrieval and Next Generation TRU Retrieval due to recovery actions for unknown object and upset conditions; and, a cost transfer from Base to ARRA T-Plant Base Ops, and delays in the initiation of full CCP characterization.
- The RL-0040 negative variance (-\$1.9M) reflects the following subproject performance:
  - ARRA RL-0040.R1.2 Outer Zone D&D negative variance (-\$1.2M) is primarily related to the greater depth of contamination in the BC Control Area and the resulting larger volume of soil requiring removal and disposal. In addition, the 212-N/P/R Project (-\$0.1M) is overrun close-out documentation taking longer than planned. This is offset by an underrun in the ALE Project (+0.6M) due to efficiencies with the lower buildings requiring less asbestos abatement than planned.
  - ARRA RL-0040.R1.1 U Plant/Other D&D negative variance (-\$0.7M) is due to using more resources than planned to recover schedule and inefficiencies related to delays from respirator operation issues and new scaffolding requirements (-\$0.4M); in addition, the U Canyon Project (-\$0.3M) overrun for the current month was due to issues with the canyon crane and additional T Plant resources charging to support the Cell 30 activities; capital equipment costs were higher than budgeted (-\$0.2M) and Project Management (-\$0.1M) and G&A adders overrun by (-\$0.4M). This is offset by (+\$0.2M) with efficiencies gained with Cold and Dark and WIF teams.
- The primary contributors to the RL-0030 negative variance (-\$1.3M) that exceed reporting thresholds are as follows:
  - 200-ZP-1 Operable Unit (-\$0.7M) due to the following factors: 1) Greater than planned cost towards completion of the 90% 200W P&T design resulting from continued design changes associated with mass balance calculations, sludge stabilization, Fluidized Bed Reactor (FBR) skid changes, etc.; 2) inefficiencies associated with road crossing and transfer piping installation. Road crossings are taking longer than planned to install due to delays in obtaining excavation permits. Crews continue to work in the field, but progressing at a slower rate than planned, resulting in a negative cost variance; and 3) Completion of a progress payment for HDPE piping (earned value method 0-100) for piping that has been purchased incrementally over the past several months, resulting in a positive variance. Impacts to construction cost are being quantified in the current REA that is being developed.
  - 100 HR-3 Operable Unit (-\$0.6M) due to unexpected late charges for distribution of DX electricity and piping. It is still estimated that DX construction will complete work with a positive cost variance.
  - PBS RL-30 UBS, G&A, and DD (-\$0.4M) the variance is discussed in Appendix C.
  - (+\$0.6M) Due to efficiencies that are being realized with the drilling subcontract by using faster and less expensive well drilling technology (sonic drilling). Savings are achieved in the well drilling activities as well as the corresponding support cost.
- The RL-0011 positive variance (+\$0.6M) is due to the following:
  - (+\$0.9M) Facility Modifications – Early completion of Chiller Design with delayed contract costs associated therewith. (Expect costs in April).
  - (+\$0.2M) Efficiencies recognized in asbestos removal and non process equipment from 234-5Z

- (-\$0.5M) Utilization of overtime and Mission Support Alliance (MSA), LLC brokered resources to recover D&D schedule due to decontamination issues
- Recovery – this positive cost variance is expected to continue to grow as more efficiencies are recognized during execution of D&D work scope.
- The RL-0041 positive variance (+\$0.6M) is due to the following:
  - 100K Area Project (Facilities and Others) (+\$1.6M) variance is due to K West Deactivation (+\$2.5M) removing smaller debris units first and having experienced staff members (the baseline assumed a staff that would not be experienced in debris removal operations, so a learning curve was built in to the schedule) and 100K Utilities (+\$0.5M) where the water treatment building procurement performance was overstated in January but is expected to attain that design/procurement performance in May and June. No long-term impact is anticipated. This is offset by an unfavorable variance in 105KE Reactor (-\$0.3M) attributed to delay in start of decontamination activities; Facilities (-\$0.8M) due to overtime usage on the 183KW Sedimentation Basin, and up-front asbestos material purchases on the 1706KE/KER Laboratory complex; Project Management (-\$0.2M); and Assessments/Mission Support Contract (-\$0.1M) support.
  - Waste Sites (-\$1.0M) Costs of ERDF waste disposal, purchase order contracts, and WSCF lab account for -\$352K of the Cost Variance. The remainder is attributed to waste site contamination quantities. The March 2010 BCR caused a point adjustment that distorted change control and true variances from actual schedule progress this month.

## Base Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	4.8	3.3	3.2	(1.5)	0.1
RL-0012 - SNF Stabilization & Disp	5.7	5.4	5.7	(0.3)	(0.3)
RL-0013 - Solid Waste Stab & Disp	7.3	6.9	8.1	(0.4)	(1.2)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	11.0	10.0	11.3	(1.0)	(1.3)
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	1.5	1.5	1.1	0.0	0.4
RL-0041 - Nuc Fac D&D - RC Closure Proj	1.2	1.0	0.6	(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>31.6</b>	<b>28.3</b>	<b>30.0</b>	<b>(3.3)</b>	<b>(1.7)</b>
<b>Fee</b>			<b>0.4</b>		
<b>Total</b>			<b>30.5</b>		

**Base**

The Current Month unfavorable Schedule Variance (-\$3.3M/-10.3%) reflects:

- The RL-0011 negative variance (-\$1.5M) is due to the following:
  - (-\$1.5M) PRF (-\$1.1M BROKK Procurement, -\$0.3M Canyon Floor Cleaning, -\$0.1M Pulser Hood and PH Hood Removal).
  - The schedule variance associated with the procurement of the BROKK will continue pending the completion of the evaluation of the manual size reduction approach (~July 2010). If manual size reduction is successful, a Baseline Change Request (BCR) will be developed and implemented. If unsuccessful, procurement of the BROKK will proceed. (Expected Recovery ~January 2011).
  - The schedule variance associated with floor cleaning and hood removal is due to the increased duration for Crane Reactivation. Expected Recovery – August, 2010.
- The primary contributors to the RL-0030 negative variance (-\$1.0M) that exceed reporting thresholds are as follows:
  - 100 HR-3 Operable Unit (-\$0.5M) due to delays in resolution of comments for the Remedial Investigation/ Feasibility Study work plan and the Treatability test plan. Project is mitigating the delays by applying additional resources and starting design work prior to issuance of Treatability test plan.
  - Regulatory Decision/Closure (+\$0.3M) attributed to acceleration of the well drilling effort associated with the “L” and “M” wells. The well drilling was able to be completed ahead of schedule due to less than anticipated contamination encountered during drilling operations.
- The RL-0012, RL-0040, RL-0041 and RL-0042 variances (-\$0.5M) are within reporting thresholds.
- The RL-0013 negative variance (-\$0.4M) is within reporting thresholds, however, delays in TRU Retrieval long-term box storage (due to resource availability and delay in polyurea startup); partially offset by the completion of W-5 legacy waste originally planned in FY 2009.

The Current Month unfavorable Cost Variance (-\$1.7M/-5.9%) reflects:

- The primary contributors to the RL-0030 negative variance (-\$1.3M) are as follows:
  - Regulatory Decision/Closure (-\$0.4M) variance is primarily due to subcontractor accruals were overstated due to delays in getting to the field to begin work. CTD cost variance for these overall activities remains positive.
  - PBS RL-30 UBS, G&A, and DD (-\$0.3M) variance is discussed in Appendix C.
  - Groundwater Monitoring and Performance Assessments (-\$0.3M) the primary driver for the CM negative cost variance is the effort taking place with realignment of liners within the ModuTank, due to leaking. This problem was not expected and has caused additional effort to resolve the issue. From a CTD perspective ModuTank activities are within budget.
  - 100 HR-3 Operable Unit (-\$0.3M) variance is primarily due to the following: RI/FS work plan, treatability test plans, DX design and project management required more effort than planned. As the completion of comment resolution on RI/FS work plan and the treatability test plan are completed it is expected that the monthly cost variances will improve. The CTD cost variance still remains positive.
- The RL-0013 negative variance (-\$1.2M) is due to G&A/Direct Distributable/assessments in excess of plan; delay in the receipt of TRU Retrieval BROKK excavator cost and capital equipment (trailer/grader) in the Central Waste Complex (CWC), (performance claimed in prior period); and, continued use of Mission Support Contract (MSC) services above plan (training and fleet); partially offset by a cost correction from Base (T-Plant FY09 Base Operations) to ARRA (T-Plant Recovery Act Base Operations).
- The RL-0041 positive variance (+\$0.5M) is due to the following:
  - 100K Area Project (Facilities and Others) (+\$0.6M) variance is primarily in Facilities (+\$0.3M) due to 116KW Stack where all resources were re-assigned to other projects until the explosives demolition contract is awarded in early April and 183.5/183.6KW Lime Feeder Buildings where the demolition budgeted in March won't occur any labor costs until April; and Assessments/Mission Support Contract (+\$0.3M) support.
  - Waste Sites (-\$0.1M) variance is a combination of numerous small items which are within reporting thresholds.
- The RL-0011, RL-0012, RL-0040 and RL-0042 variances (+\$0.2M) are within reporting thresholds

## Performance Analysis – Contract to Date

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

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - PFP D&D	90.1	90.3	79.0	0.2	11.3	290.0	278.6	11.3
RL-0013 - MLLW Treatment	24.8	25.4	21.0	0.6	4.4	50.5	47.5	3.0
RL-0013 - TRU Waste	61.5	54.3	57.1	(7.2)	(2.7)	248.9	242.9	6.0
RL-0030 - Soil and Groundwater	51.5	52.0	44.3	0.5	7.7	201.9	199.0	2.9
RL-0040 - U Plant/Other D&D	89.4	86.9	70.4	(2.5)	16.5	209.7	189.6	20.1
RL-0040 - Outer Zone D&D	19.0	16.0	15.2	(2.9)	0.9	75.1	81.6	(6.5)
RL-0041 - 100K Area Remediation	70.5	67.7	44.3	(2.9)	23.4	223.5	162.1	61.5
<b>Subtotal</b>	<b>406.8</b>	<b>392.6</b>	<b>331.1</b>	<b>(14.2)</b>	<b>61.5</b>	<b>1,299.5</b>	<b>1,201.2</b>	<b>98.3</b>
<b>Management Reserve</b>						<b>37.0</b>		
<b>Fee</b>			<b>29.5</b>			<b>72.1</b>		
<b>Total</b>			<b>360.6</b>			<b>1,408.6</b>		

### ARRA

The CTD negative Schedule Variance (-\$14.2M/-3.5%) reflects:

- The RL-0013 positive variance (-\$6.6M) reflects the following subproject performance:
  - RL-0013 TRU Waste variance (-\$7.2M) is due to continued delayed progress in TRU Retrieval and Next Generation TRU Retrieval due to recovery actions for unknown object and upset conditions; and, coupled with understated performance for Next performed in series versus parallel.
  - RL-13 MLLW Treatment variance (+\$0.6M) is within reporting thresholds.
- The RL-0040 negative variance (-\$5.4M) reflects the following subproject performance:
  - ARRA RL-0040.R1.2 Outer Zone D&D variance (-\$2.9M) is primarily 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 (-\$1.5M) and a combination of extensive regulatory agency review times on regulatory documents (AM and RAWP) and obtaining the characterization data needed for ERDF profiles prior to remedial activities (-\$1.3M). In addition, the 212-N/P/R Project (-\$0.1M) has taken longer than planned but should be completed in early June. This is offset by the ALE Project (+\$0.6M) due to less asbestos abatement activities than planned.
  - ARRA RL-0040.R1.1 U Plant/Other D&D variance (-\$2.5M) for the D4 Project is caused by late delivery of heavy equipment in the D4 capital equipment account (-\$0.8M), disposal path forward undecided for Cell 30 in the U Canyon (-\$0.9M), 200-E Administration Buildings (-\$1.0M), and U Ancillary Demolition (-\$0.3M) schedule delays due to asbestos abatement/respirator issues.

- The RL-0011 and RL-0041 variances (-\$2.7M) are within reporting thresholds.
- The primary contributors to the RL-0030 positive variance (+\$0.5M) that exceed reporting thresholds are as follows:
  - 100-HR-3 Operable Unit (+\$3.2M) is due to 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.
  - 200-ZP-1 Operable Unit (-\$1.9M) is primarily due to the following: delays in vendor fabrication of long lead process equipment; focus of the engineering design team has been on the completion of the 90% design, resulting in delays to engineering review of submittals; installation HDPE, fiber optical, and electrical cable is progressing slower than planned; completion of the 1<sup>st</sup> fluidized bed system completed in earlier months that was scheduled to be completed in March; and a slight delay in the mobilization of the contractor for construction of the transfer buildings. The impact of these delays is being evaluated to determine overall impact to construction completion. TPA milestone M-016-122 is on schedule for completion on December 31, 2011.

The CTD favorable Cost Variance (+\$61.5M/+15.7%) reflects:

- The RL-0041 positive variance (+\$23.4M) is due to the following:
  - 100K Area Project (Facilities and Others) (+\$15.6M) variance is in Facilities (+\$8.1M) due to efficiencies of scale for concurrent demolition, K West deactivation (+\$5.7M) for the debris removal campaign removing smaller debris units first and having experienced staff members (the baseline assumed a staff that would not be experienced in debris removal operations, so a learning curve was built in to the schedule), utilities reroutes (+\$2.3M) where procurement performance was inadvertently taken in January but won't actually be achieved until May, 105KE Reactor Disposition (+\$0.8M) for site preparation and obstruction removal, and Mission Support Contractor support where services have not been used as extensively as planned. This is offset by Project Management (-\$1.3M) where general site cleanup labor has been utilized on site cleanup work scope.
  - Project Support & Services (+\$7.9M) achieved efficient use of assigned resources.
  - Waste Sites (-\$0.1M) variance is a combination of numerous small items which are individually insignificant.
- The RL-0040 positive variance (+\$17.4M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D variance for the D4 Project is largely 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 (+\$7.0M), less for Program Management than planned (+\$0.4M), efficiencies at U-Canyon (D4) (+\$3.7M), less resources than planned for C-3 Sampling (+\$0.7M) and 200-E Administration (+\$0.5M), lower than planned costs for capital equipment (D4) (+\$2.0M), 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) (-\$2.7M), coupled with increased insulator staff and overtime to recover schedule and higher MSA (-\$1.4M) costs for Fleet/Training, etc.; and in Waste Sites the variance (+\$0.5M) is primarily related to efficiencies in the initial effort to develop the agreement in principal for the U Plant Zone.
  - ARRA RL-0040.R1.2 Outer Zone D&D variance (+\$1.4M) is primarily related to efficiencies in the mobilization gained by changing to direct haul to ERDF, which reduced costs and environmental impacts associated with construction of a container transfer area (+\$0.6M).

Lower than modeled costs have been realized on the initial confirmatory sampling waste sites due to the non-complex nature of the waste sites addressed to date (+\$0.8M). However, these efficiencies are being offset by higher than planned remediation costs at BC Control Area due to the greater depth of contamination and the larger volume of soil being removed to ERDF; in addition, the ALE Project continues to underrun due to efficiencies and less asbestos abatement activities required than planned (+\$3.3M), this is also offset by overruns in the 212-N/P/R Project (-\$0.3M) and the acceleration of the 212 Railcars (-\$0.3M).

- The RL-0011 positive variance (+\$11.3M) is due to the following:
  - (+\$6.7M) Efficiencies recognized on cross-cutting support to the D&D work teams (primarily in solid waste management, project management, NDA, and consumables and subcontracts)
  - (+\$3.8M) Overhead allocations directly related to the PRC accounting practice of distributing cost based on the Project's actual cost (i.e., Project Services Distribution, General and Administrative, and Direct Distributables).
  - (+\$2.0M) Efficiencies experienced in completing facility modifications and the removal of asbestos and non-process equipment from 234-5Z.
  - (-\$1.2M) Use of overtime and additional usage-based services (MSA Brokered Resources) to recover schedule on glovebox decontamination and disposition and delayed initiation of process vacuum system removal.
  - Recovery – this positive cost variance is expected to continue to grow as more efficiencies are recognized during execution of D&D work scope.
- The primary contributors to the RL-0030 positive variance (+\$7.7M) are:
  - Drilling (+\$2.2M) 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.
  - Ramp-up and Transition (+\$1.9M) due to the following: Project support functions (PM, CM, Engr, etc.) continue to perform with staffing levels below estimated levels; contracted costs for the 4 shop building are currently below estimated values; and initial site prep, utilities and trailer procurements/placement contracts are below estimated values. Some subcontract and labor costs were misapplied to the Mobile Offices project (000.19.01.01.06) and corrections continue to be processed to redirect the appropriate costs to this project.
  - 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 (+\$1.5M) variance is discussed in Appendix C.
  - 100-HR-3 Operable Unit (+\$1.4M) efficiencies experienced during installation of HDPE piping and road crossings.
  - 200-ZP-1 Operable Unit (-\$1.0M) result of ongoing design changes which have required more resources to complete the design than originally planned. Impacts to overall construction cost are being quantified in the current REA that is being developed.
- The RL-0013 positive variance (+\$1.7M) reflects the following subproject performance:
  - RL-0013 MLLW Treatment variance (+\$4.4M) is due to the costs for waste treatment which are below plan due to efficiencies created by treating waste at ES-Clive rather than planned

treatment at Perma-Fix Northwest (due to a waiver received from DOE); and, ERDF super dumps received below planned costs.

- RL-0013 TRU Waste variance (-\$2.7M) due to continued incurred costs without making TRU Retrieval progress; and, increased allocation for additional office space and Project Services as a result of increased Recovery Act expenditures; partially offset by a delay in hiring/training for TRU Characterization & Shipping without impacting performance, and decreased G&A allocations.

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

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance		BAC	EAC	Variance
	BCWS	BCWP	ACWP	Schedule	Cost			
RL-0011 - Nuclear Mat Stab & Disp PFP	100.5	98.3	97.3	(2.2)	1.0	339.6	338.4	1.1
RL-0012 - SNF Stabilization & Disp	130.9	129.6	131.1	(1.3)	(1.5)	576.9	577.9	(1.0)
RL-0013 - Solid Waste Stab & Disp	191.8	188.5	185.5	(3.2)	3.1	1,568.3	1,559.7	8.6
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	182.5	180.4	170.6	(2.1)	9.8	1,202.9	1,195.2	7.7
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	41.2	39.7	34.2	(1.5)	5.5	971.1	961.5	9.6
RL-0041 - Nuc Fac D&D - RC Closure Proj	14.2	14.3	12.2	0.1	2.1	335.5	363.0	(27.6)
RL-0042 - Nuc Fac D&D - FFTF Proj	9.3	9.3	8.7	0.0	0.5	25.0	24.3	0.7
<b>Subtotal</b>	<b>670.4</b>	<b>660.2</b>	<b>639.6</b>	<b>(10.2)</b>	<b>20.6</b>	<b>5,019.3</b>	<b>5,020.1</b>	<b>(0.8)</b>
<b>Management Reserve</b>						<b>173.8</b>		
<b>Fee</b>			<b>30.8</b>			<b>231.9</b>		
<b>Total</b>			<b>670.4</b>			<b>5,425.0</b>		

### Base

The CTD unfavorable Schedule Variance (-\$10.2M/-1.5%) reflects:

- The RL-0011 negative variance (-\$2.2M) is due to the following:
  - (-\$2.2M) PRF variance (-\$1.4M BROKK Procurement, -\$0.6M Canyon Floor Cleaning, -\$0.2M Pulser Hood and PH Hood Removal).
  - The schedule variance associated with the procurement of the BROKK will continue pending the completion of the evaluation of the manual size reduction approach (~July 2010). If manual size reduction is successful, a Baseline Change Request (BCR) will be developed and implemented. If unsuccessful, procurement of the BROKK will proceed. (Expected Recovery ~January 2011).
  - The schedule variance associated with floor cleaning and hood removal is due to the increased duration for Crane Reactivation. Expected Recovery – August, 2010.
- The RL-0013 negative variance (-\$3.2M) is due to the delay in Next Generation Retrieval for TRU waste procurements, long term box storage remediation, an understatement in performance for Next Generation Retrieval staff training, and site preparation being performed in series versus parallel; and, delay in Waste Encapsulation and Storage Facility (WESF) roof upgrade pending weather improvements.
- The RL-0040 negative variance (-\$1.5M) is due to the delayed start of the Cell 30 design (D4) and an inadvertent overstatement of performance related to the 600 Central Landfill barrier (+\$0.1M).
- The RL-0012, RL-0030, RL-0041 and RL-0042 variances (-\$3.3M) are within reporting thresholds.

The CTD favorable Cost Variance (+\$20.6M/+3.1%) reflects:

- The primary contributors to the RL-0030 positive variance (+\$9.8M) that exceed reporting thresholds are as follows:
  - 100-KR-4 OU (+\$2.0M) efficiencies obtained with the KR-4 Operations and Maintenance accounts, which are expected to continue throughout the fiscal year.
  - 100-NR-2 OU (+\$1.7M) resulted from performing chemical treatment & 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.
  - 200-ZP-1 Operable Unit (+\$1.7M) largely the result of the following factors: 1) Interim Operations reflects significant progress and cost under runs 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.
  - Regulatory Decision & Closure Integration (+\$1.3M) 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.
  - Integrated Field Work (-\$1.8M) is due to the WSCF laboratory costs that have been greater than initially planned, due to rate and volume changes. Although this account will continue to overrun, the total WSCF cost for RL30 is being evaluated to determine the overall impact to RL30 projects.
- The RL-0040 positive variance (+\$5.5M) 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) (+\$0.8M) less than expected, completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$0.9M), capital equipment (+\$0.4M), Usage Base Services (+\$0.2M) and under-run in G&A and direct distributable allocations (+\$1.2M); Waste Sites (+\$0.5M) is due to less extensive regulatory support labor required for the U Zone agreement in principle.
- The RL-0013 positive variance (+\$3.1M) is due to efficiencies in MLLW (due to treating waste at ES-Clive rather than planned treatment at PFNW (due to a waiver received from DOE), efficiencies in Liquid Effluent Facilities, Slightly Irradiated Fuel (SIF) preparation/receipt, and TRU Repackaging, along with decreased allocation for G&A/Direct Distributables; partially offset by continued use of MSC support services above plan, and TRU Retrieval additional resources to deal with deteriorated containers/85 gallon drum issues.
- The RL-0041 positive variance (+\$2.1M) is due to the following:
  - 100K Area Project (Facilities and Others) (+\$2.6M) due to 105KE Reactor Core Removal (+\$2.9M) work efficiency on deactivation and enabling documents; and Focused Feasibility Study (+\$0.2M) where the work has stopped while a different path forward is explored. This is offset by Facilities (-\$0.4M) where the 1706KE/KEL/KER complex above-grade demolition required more resources due to its complexity and Mission Support Contractor support (-\$0.1M) where services have been used more extensively as planned.

- Waste Sites (-\$0.5M) due to multiple reasons including the acquisition of additional personnel and equipment waiting for D-4 facility completion, and contamination quantities greater than planned.
- The RL-0011 positive variance (+1.0M) is due to the following:
  - (+\$1.6M) is due to D&D Materials & Subcontracts and Waste Container Procurements, and recognized efficiencies in 242Z and 2736Z/ZB
  - (+\$1.3M) variance is due to the early completion of Spent Nuclear Material De-Inventory
  - (-\$1.3M) Usage Based Services due to increased cost in training tuition, increased costs in Facility Services due to the increased number of trailers to support the D&D work activities
  - (-\$0.6M) PRF variance is due to increased overtime utilization to support crane reactivation and to begin schedule recovery for the floor cleaning and hood removal
  - 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 Pulser Hood Removal.
- The RL-0012 and RL-0042 variances (-\$1.0M) are within reporting thresholds.

## FUNDING ANALYSIS

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

PBS	Project	FY 2010		
		Base line Funding	Spending Forecast	Variance
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	121.7	106.4	15.3
<b>RL-0013</b>	Waste and Fuels Management Project	153.5	131.3	22.2
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	142.9	110.0	32.9
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	144.1	123.4	20.7
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	122.2	85.3	36.8
<b>Total ARRA:</b>		<b>684.4</b>	<b>556.5</b>	<b>127.9</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	57.5	52.3	5.2
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	86.8	79.1	7.7
<b>RL-0013</b>	Waste and Fuels Management Project	108.7	99.3	9.3
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	177.4	153.5	23.9
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	25.8	15.7	10.1
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	20.9	23.8	(2.9)
<b>RL-0042</b>	Fast Flux Test Facility Closure	1.7	1.2	0.5
<b>Total Base:</b>		<b>478.7</b>	<b>424.9</b>	<b>53.8</b>
<b>Combined ARRA/Base Total:</b>		<b>1,163.1</b>	<b>981.4</b>	<b>181.7</b>

BCR-PRC-10-024 will be processed in April to move the 183.2KE Sedimentation Basin/183.3KE Filter Basin/183.7KE Tunnel and discrete portions of the 105KE reactor from ARRA to Base funding. The spend forecast reflects this planned move.

## BASELINE CHANGE REQUESTS

In March, CHPRC approved and implemented eight (8) baseline change requests, of which three (3) are administrative in nature and did not change budget, schedule or scope. The remaining five (5) change requests are briefly summarized in the table below:

BCR Number	Title	Description
AWA-R13-10-003R0	Support Installation of High Energy Real-Time Radiography	This change request implements CHPRC support to installation and Central Characterization Project utilization of a High Energy Real-Time Radiography unit at the Hanford site. This action is directed by RL in contract modification 87. The fiscal year (FY) 2010 PMB budget is increased \$264.6K. No additional funds are requested and no management reserve (MR) is used.
BCR-030-10-006R0	Remediation Decision Support Supplement, RL-30	This change request revises the estimate for Remediation Decision Support to the development of hydrogeologic conceptual models and databases. A corresponding reduction in estimate for Strategic Integration and Systematic Planning Integration is also made. There is no change the overall PMB budget, no additional funds are required and no MR is used.
BCR-030-10-007R0	KR-4 Phase 3 Update & KW Bioremediation Re-planning	This change request re-plans the Phase 3 construction work as capital based on a recent capital determination and adds a strategic planning activity, which is offset by an estimate reduction in KR-4 and KW System Maintenance work. No additional funds are required, there is no change to the overall PMB budget and no MR is used.
BCR-PRC-10-027R0	Re-sequencing Waste Site Remediation within PBS RI-0041	Remediation of identified waste sites is re-sequenced to align to the most recent TPA milestone dates and draft Performance Incentives, which also corrects an error with waste site sequencing in the PRC Baseline, Revision 2. The overall PMB budget is reduced \$420.6K, no additional funding is requested and no MR is used.
BCR-R40-10-004R0	BC Control Area (UPR-200-E-83) Zone C Characterization	This change request authorizes CHPRC to begin additional, more detailed characterization of the waste areas in BC Control Area Zone C as documented in corresponding condition of change. The FY 2010 PMB budget is increased \$139.8K, no additional funding is requested and no MR is used.

Overall for March the contract period PMB budget is reduced \$16K and there is no change to, or utilization of, management reserve and no additional funding is requested. 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 primary focus in April 2010 will be to support RL in review of the PRC Baseline, Revision 2, support RL on the GAO audit of PBSs RL-40 & RL-41 and process normal operating change requests as needed to maintain the PMB in the earned value management system consistent with requirements. 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 March is summarized by fiscal year in the tables below (negative number represents reduction):

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

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014 - 2018
<b>February 2010 Contract Price</b>						
PMB	653,426	1,011,174	943,645	769,752	4,026,332	2,292,423
Mgmt Rsrv (MR)	0	27,700	34,300	30,200	124,500	86,300
Fee	39,712	48,772	49,035	40,377	210,647	93,430
<b>Total</b>	<b>693,138</b>	<b>1,087,646</b>	<b>1,026,980</b>	<b>840,329</b>	<b>4,361,479</b>	<b>2,472,153</b>
<b>Change by Funding Source to Contract Price in March 2010 (5 BCRs)</b>						
<b>PMB</b>						
<b>ARRA</b>						
All ARRA WBSs	0.0	7,102.2	-149.7	-6,808.7	91.0	0.0
<b>Base</b>						
All Base WBSs	0	217	5,290	-1,466	-2,762	2,655
<b>Change to PMB</b>	<b>0</b>	<b>7,319</b>	<b>5,140</b>	<b>-8,275</b>	<b>-2,671</b>	<b>2,655</b>
<b>MR</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 MR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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>7,319</b>	<b>5,140</b>	<b>-8,275</b>	<b>-2,671</b>	<b>2,655</b>
<b>March 2010 Contract Price</b>						
PMB	653,426	1,018,493	948,785	761,477	4,023,661	2,295,078
MR	0	27,700	34,300	30,200	124,500	86,300
Fee	39,712	48,772	49,035	40,377	210,647	93,430
<b>Total</b>	<b>693,138</b>	<b>1,094,965</b>	<b>1,032,120</b>	<b>832,054</b>	<b>4,358,808</b>	<b>2,474,808</b>

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

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
<b>Management Reserve (MR) - End of February 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	3,800	0	5,300	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>20,800</b>	<b>0</b>	<b>37,000</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>34,300</b>	<b>30,200</b>	<b>124,500</b>	<b>86,300</b>	
<b>Changes to/Utilization of Management Reserve in March 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	0	0	0	0	0
	RL-0030.R1	0	0	0	0	0	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>0</b>	<b>0</b>	<b>0</b>	<b>0</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>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Management Reserve - End of March 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	3,800	0	5,300	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>20,800</b>	<b>0</b>	<b>37,000</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>34,300</b>	<b>30,200</b>	<b>124,500</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 3/31/10								Planned Subcontracting*	\$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	\$1,025,534,582
Reporting Classification	ARRA		Non-ARRA		Total	Percent of Total	Goal (%)	Balance Remaining to Award =	\$1,498,948,613
	(\$)	%	(\$)	%	(\$)			Goal Award (\$)	Bal. to Goal (\$)
SB	\$210,432,352	58.56%	\$307,056,514	46.09%	\$517,488,866	50.46%	49.30%	\$1,244,570,215	\$727,081,349
SDB	\$45,811,594	12.75%	\$48,597,731	7.30%	\$94,409,325	9.21%	8.20%	\$207,007,622	\$112,598,297
SWOB	\$47,840,837	13.31%	\$58,036,979	8.71%	\$105,877,816	10.32%	6.50%	\$164,091,408	\$58,213,592
HUB	\$4,609,424	1.28%	\$9,759,137	1.46%	\$14,368,561	1.40%	3.20%	\$80,783,462	\$66,414,901
VOSB	\$36,276,783	10.09%	\$20,713,137	3.11%	\$56,989,920	5.56%	2.00%	\$50,489,664	(\$6,500,256)
SDVO	\$3,573,841	0.99%	\$3,634,476	0.55%	\$7,208,317	0.70%	2.00%	\$50,489,664	\$43,281,347
NAB	\$2,861,364	0.80%	\$3,605,280	0.54%	\$6,466,644	0.63%	0.00%	<i>*10-year subcontracting projection</i>  <u>PRC clause H.20 small business (SB) requirement:</u> ≥17% of Total Contract Price performed by SB Total Contract Price: \$4,622,419,027 17% requirement: \$785,811,235 Awarded: \$517,488,866 Balance to Requirement: \$268,322,369	
Large	\$95,590,980	26.60%	\$230,607,297	34.62%	\$326,198,277	31.81%	0.00%		
GOVT	\$13,164	0.00%	\$693,233	0.10%	\$706,397	0.07%	0.00%		
GOVT CONT	\$53,289,695	14.83%	\$126,412,627	18.98%	\$179,702,322	17.52%	0.00%		
EDUC	\$25	0.00%	\$30,657	0.00%	\$30,682	0.00%	0.00%		
NONPROFIT	\$25,243	0.01%	\$1,315,415	0.20%	\$1,340,658	0.13%	0.00%		
FOREIGN	\$5,103	0.00%	\$62,276	0.01%	\$67,379	0.01%	0.00%		
Total	\$359,356,564		\$666,178,018		\$1,025,534,582				

**Notes:**

1. Performance in FY 2010 continues to exceed goals in the Small Business, Disadvantaged Business, Woman Owned and Veteran Owned categories.
2. Over 50% of awards have been made to small businesses with over 58% of ARRA awards to small businesses.
3. ARRA funded awards have accounted for 35% of all actions placed since contract inception.
4. Over 95% of the total dollars arise from service and staffing Contracts and Contract amendments with 3.3% 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