



## CONTENTS

EXECUTIVE SUMMARY.....	2
TARGET ZERO PERFORMANCE.....	3
PROGRAM SUMMARIES.....	4
PROJECT SUMMARIES.....	10
KEY ACCOMPLISHMENTS.....	16
MAJOR ISSUES.....	29
EARNED VALUE MANAGEMENT.....	33
FUNDING ANALYSIS.....	46
BASELINE CHANGE REQUESTS.....	47
SELF-PERFORMED WORK.....	50
GOVERNMENT FURNISHED SERVICES AND INFORMATION.....	50

## PROJECT BASELINE SUMMARY SECTIONS

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

## APPENDICES

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

## EXECUTIVE SUMMARY

### Focus on Safety



**Out-brief of the ISMS/EMS Phase 2 Verification by RL**

From February 8-19, a 22-person Department of Energy team performed the ISMS/EMS Phase II verification review of the CHPRC ISMS/EMS program. The results of this verification review found that CHPRC has documented and implemented an adequate Integrated Safety Management System Description (PRC-MP-MS-003) consistent with Environmental Management System and Integrated Safety Management System requirements. Overall, there were nine good practices identified, with 23 opportunities for improvement, and four concerns related to the CHPRC ISMS program. An additional six broad concerns were identified related to work activities during this review at the Waste Retrieval Project, which did not achieve verification.

Upon completion of the corrective actions and acceptance by RL, this area is expected to achieve ISMS/EMS verification as well.

As with any review of this magnitude there were areas of improvement identified which CHPRC must focus on to ensure that our work is properly planned, hazards are identified, and that controls are in place to perform our work scope safely. Additional management attention and focus on maturation is necessary for the following elements of ISMS/EMS:

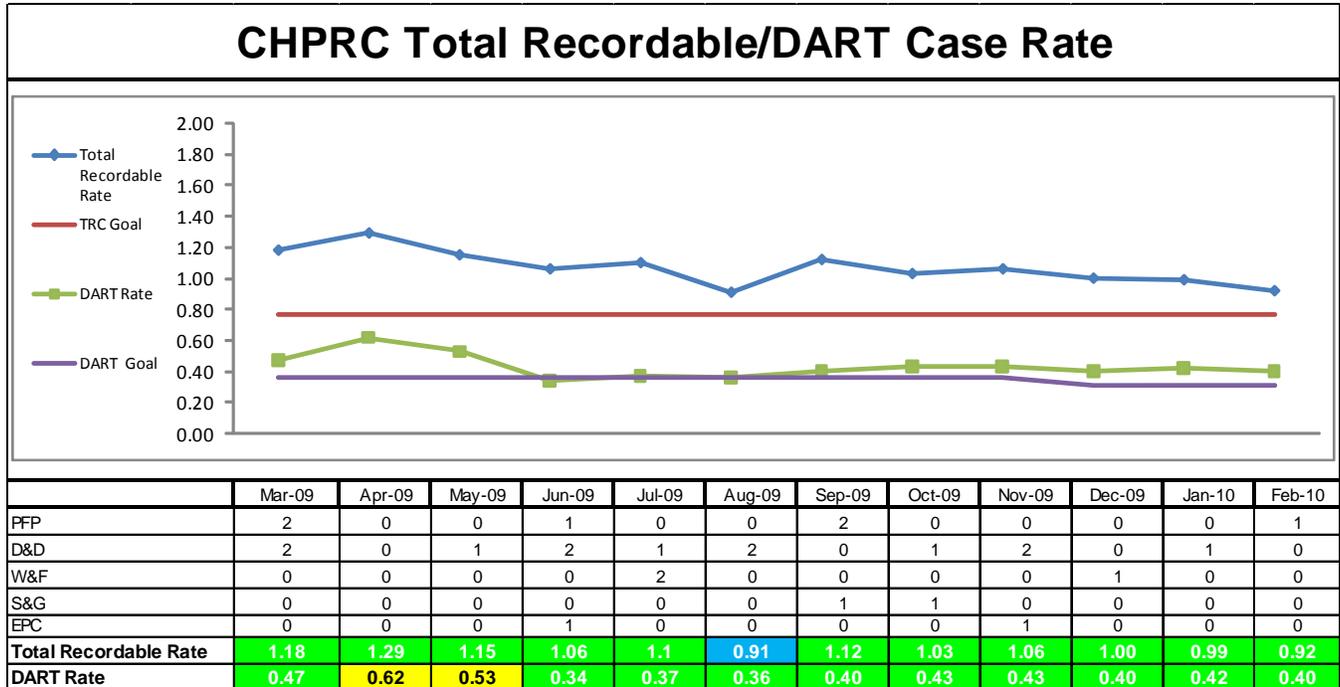
- Hazard controls tailored to daily work activities
- Clear understanding of engineering discipline and nuclear safety matrixed roles and responsibilities
- Feedback and improvement mechanisms for issues management and lessons learned applications to future work scope

The remainder of the identified issues will be processed in accordance with our Issues Management system with RL oversight. Mr. David Brockman, RL Manager, recognized this achievement in his comments and also acknowledged our excellent safety performance while implementing significant additional work with the ARRA program at the verification review out-brief with CHPRC.



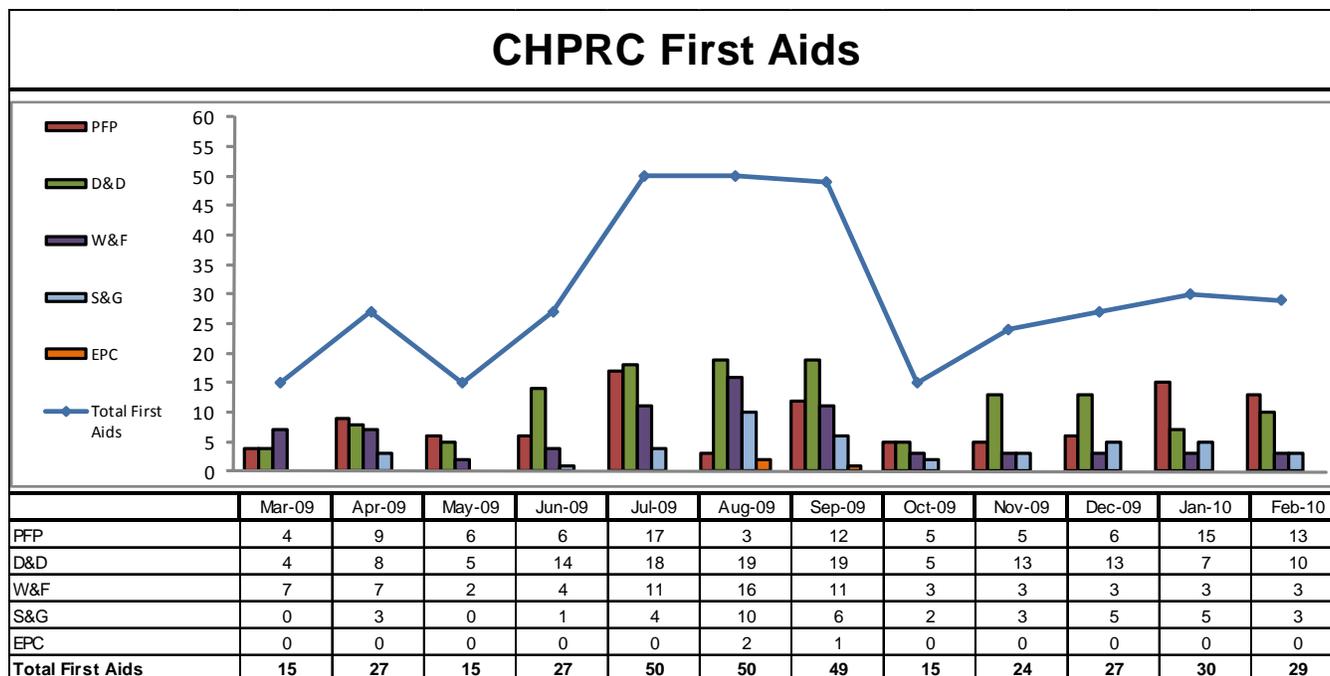
## TARGET ZERO PERFORMANCE February 2010

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 0.92 is based upon a total of 25 recordable injuries. Four cases are under review requiring additional information. One recordable injury occurred at PPF where a worker tripped over a pallet and fell on their right shoulder which resulted in a right humeral head non-displaced fracture to their shoulder. Injury also resulted in a DART case. TRC rate performance continues in the green range and has dropped each of the last six months. This is below the 0.94 CHPRC goal.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.40 is based upon a total of 11 cases. DART rate performance continues in the green range. The EM DART rate for CY 2009 equals 0.40.



**First Aid Case Summary** – Twenty-nine (29) first aid cases were reported in February. Accident cause and types were well distributed, with no apparent trend in any one area. Individual project data will continue to be evaluated on a monthly basis.

## PROGRAM SUMMARIES

### Safety, Health, Security, and Quality

SHS&Q support efforts were instrumental in the CHPRC’s successful DOE Phase II Integrated Safety Management System/Environmental Management System (ISMS/EMS) Verification. The review team found that CHPRC has documented and implemented an adequate process that is consistent with EMS and ISMS requirements. Follow up focus will be placed on such areas as hazard controls tailored to daily work activities; clear understanding of engineering discipline and nuclear safety matrixed roles and responsibilities; and feedback and improvement mechanisms for issues management and lessons learned for application to future work. Six concerns were identified and they were all associated with the Waste Retrieval Project and are being evaluated for programmatic improvement opportunities. This focus on continuous improvement ensures our work is effectively planned, hazards are identified, and controls are in place to perform the work safely. Occupational Safety and Industrial Hygiene (OS&IH) provided daily logistical support for the Team.

The monthly President’s Zero Accident Council (PZAC) meeting was held on February 17. Engineering, Projects and Construction (EPC) sponsored the meeting. The main theme for the meeting focused on slips, trips, and falls with a special emphasis on accessing and exiting cabs of trucks and heavy equipment. Other notable presentations included an Environmental-led discussion on contract requirements for procurement of products of recycled material composition, and personal testimonies from three employees involved in minor vehicle incidents on Site.

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

- Development and issuance of the following four *Thinking Target Zero* safety bulletins: Escorting, Chemical Splash Personnel Protective Equipment (PPE), Blind Spots, and Reducing Ink & Paper Consumption at Work.

- Completed formalizing Occupational Safety and Health Administration (OSHA) competent person designations (process, documentation, and assignment) in 15 specific topical areas.
- Completed revision to Safety Observation Training Course (#600020), to incorporate Trainer feedback collected during the pilot project at Waste & Fuels.
- Provided support in coordinating the Department of Energy (DOE) Richland Field Office assessment of injury/illness Recordkeeping and Case Management practices.
- Developed and proposed enhancements to AdvanceMed Hanford (AMH) for the current Employee Job Task Analysis (EJTA) system to the Hanford Occupational Health Process (HOHP).
- Developed/identified preliminary data processing requirements and needs for the next-generation industrial hygiene sampling and monitoring database.
- Continued implementing the new Hanford Site Chronic Beryllium Disease Prevention Program:
  - Progressed with ~97% completion of Beryllium Facility Assessments,
  - Completed delivery of gap training for Beryllium Workers,
  - Implemented Beryllium Work Permits usage at beryllium controlled facilities.
- Completed annual Voluntary Protection Program (VPP) self-assessment, and prepared the formal evaluation report for submittal to DOE.
- Prepared and submitted changes to PRC-PRO-WKM-12115, PROC-GD-WKM-12116 and PRC-PRO-WKM-14047 to address CR-2010-0160 to support our vehicle safety actions; drafted parallel changes to the four pre-job briefing checklist forms.
- Developed process for managing Office of Civilian Radioactive Waste Management (OCRWM) related Measuring & Testing Equipment (M&TE) and ensuring that calibration records are identified, retrievable, and stored in OCRWM records repositories. Submitted list of effected M&TE to Energy Northwest for addition of an OCRWM identity mark on calibration records to address CR-2009-1889.
- The Quality Assurance and Safety group completed the Technical Review of Tube and Coupler Safway Scaffold. As a result of this review, CHPRC considers Safway tube and coupler scaffolding controls to be adequate; therefore, no additional controls beyond standard commercial practices will be applied to procurement of scaffolding from Safway.
- Partnered with Mission Support Contractor (MSC) to develop corrective actions associated with radiological violations at our facilities by MSC personnel.
- Sludge Treatment Project Transmittal of Engineered Container Retrieval and Transfer System Conceptual Safety Report, PRC-STP-00156, and Sludge Treatment Project Safety Design Strategy, HNF-34374, for RL Review and Approval.
- Performed 34 self-assessments in February.

### **Environmental Program and Strategic Planning (EPSP)**

Training was provided to affected personnel during February in preparation for the new RL requirements for spill prevention and response, which go into effect on March 1, 2010. A tracking tool was also developed to track spills that do not require reporting, but need to be evaluated.

The major radioactive air emissions stack at the Canister Storage Building (CSB) emission unit 296-H-212 was inspected on Wednesday, February 24, 2010 by the Department of Health. Inspection results are expected in March.

An unannounced inspection by the Department of Ecology of selected Hanford Site Satellite Accumulation Areas (SAAs) and 90-Day Accumulation Areas was conducted on Tuesday, February 2, 2010. The inspections included satellite accumulation areas managed by CHPRC in the 6268 and 6269

buildings. The five SAAs inspected are associated with collection of groundwater and other samples. Ecology is evaluating the inspection results and expects to issue a report in March.

On February 22, 2010, the U.S. Department of Energy and CHPRC provided Department of Ecology staff a tour of the Waste Receiving and Processing (WRAP) Facility to help Ecology better understand and provide background information for preparation of the WRAP Facility attachment to the Hanford Facility Resource Conservation and Recovery Act Permit for public review.

CHPRC input was provided to the Mission Support Alliance for the Air Operating Permit Semi-Annual Report and the Dangerous Waste Report.

The ALARACT Demonstration Annotated Outline has been completed after receiving concurrence by Department of Health (DOH) on the revised outline.

The EQA organization completed eight surveillances during the month of February:

- QA-EQA-SURV-10-014/IEP 7794 – Reviewed OBS D&D D4 records activities for compliance with procedure PRC-GD-IRM-40128 Records Inventory and Disposition Schedule. No findings or opportunities for improvement resulted.
- QA-EQA-SURV-10-017/IEP 7797 – This surveillance was conducted to determine consistency of records management processes with CHPRC PRC-PRO-IRM-10588, Records Management Processes, and CHPRC-00189, Environmental Quality Assurance Plan, rev. 3, at the 296-K-142 major stack at the Cold Vacuum Drying Facility, part of the 100K Project. Three findings resulted from this surveillance.
- QA-EQA-SURV-10-035/IEP 7825 – This surveillance was conducted to determine consistency of NPDES storm water permit records management with CHPRC PRC-PRO-IRM-10588, Records Management Processes. No findings or opportunities for improvement resulted.
- QA-EQA-SURV-10-058/IEP 8649 – The scope of this surveillance was to review the ER&QA cost estimating process that will support response action decision-making to determine if appropriate language in draft PRC-PRO-AC-####, revision 0, change0, is being incorporated to ensure compliance with PRC-PRO-IRM-10588 Records Management Processes. No findings or opportunities for improvement resulted.
- QA-EQA-SURV-10-059/IEP8650 – The scope of this surveillance was to review the CHPRC Emergency Planning and Community Right-to-Know Act (EPCRA) process used to manage required records. One finding resulted.
- QA-EQA-SURV-10-061/IEP 8651 – The purpose of this surveillance was to determine PFP environmental Waste Management activities are in compliance with PRC-PRO-IRM-10588 Records Management Processes. No findings or opportunities for improvement resulted.
- QA-EQA-SURV-10-048/IEP 8585 – The purpose of this surveillance was to verify compliance with the requirements for Objectives and Targets in PRC-MP-EP-40182, Environmental Management System Manual. One opportunity for improvement resulted.
- QA-EQA-SURV-10-057/IEP 8637 – This surveillance was performed to determine if janitorial supplies are being purchased by the CHPRC projects as bio-based and other environmentally preferable products which minimize the environmental impacts at CHPRC. Two opportunities for improvement were noted.

The ARRA Information Exchange II was rescheduled for April 27-28, 2010 in Washington DC.

The 2010 ISMS Employee Safety Survey was distributed to all CHPRC and subcontractor employees for input. An independent data center will process all of the results and provide a report for comparison to the initial survey in January 2009.

## Business Services and Project Controls

During February, CHPRC approved and implemented seven (7) Baseline Change Requests (BCRs), of which three (3) are administrative in nature and did not change budget, schedule or scope. Overall for February, the life cycle PMB budget increased \$5M with no change to or utilization of management reserve.

The contractor reporting process for ARRA labor hours has been updated to include actual subcontractor hours worked rather than calculated hours for managed task activities. The data is being accumulated for CHPRC ARRA reporting. The process was revised to comply with guidance changes received from DOE. Contractors with ARRA managed tasks contracts that have reportable labor hours have received the new spreadsheet submittal form and instructions. As of March 12, 2010, 35 contractors have reported on 87 releases.

February Procurement Transaction volume was \$33.8M.

In February, several Contract Specialists attended a Workshop at the 2355 Warehouse facility operated by MSA/AKIMA. The workshop was related specifically to how procurement personnel will be affected by several process changes they are implementing. Some of the areas of change are; tracking/finding material, requesting AVS priorities, Hot Shot driver requests, implementing a Customer Service Representative Etc. The changes will involve using electronic correspondence between the Specialists and the Warehouse.

Procurement Procedures: PRC-RD-AC-10320 CHPRC Acquisition System Requirements, PRC-PRO-AC-123 Requesting Materials and Services, PRC-PRO-AC-186 Statements of Work, PRC-PRO-AC-192 Buyer's Technical Representative Assignment and Duties, and PRC-PRO-AC-335 Use and Control of Purchasing Card were all issued with new revisions in the month of February. To help communicate the changes, CHPRC Supply Chain Support issued BTR notice, identifying the major changes to the procedures.

Property Management initiated the annual inventory of Sensitive Property in February. A total of 4,507 items will be inventoried. As of February 28, 2010, 970 items or 21% of the items have been verified. The target for completion of field work for this inventory is July 21, 2010.

Interface Management continued to serve as the lead for coordination of ISMS/EMS implementation for the Business Services & Project Controls organization. This included supporting the ISMS/EMS Phase II implementation external review held the first two weeks of February.

In conjunction with Washington River Protection Solutions (WRPS), Interface Management continued to support MSA's development of enhanced MSA 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. During the reporting period, agreement was reached on enhanced SDDs for Fire Systems Maintenance, Facility Information Management System, and Condition Assessment Surveys.

In conjunction with PNNL and WRPS, Interface Management supported: MSA's finalization of the Hanford Site Infrastructure and Services Alignment Plan (ISAP) which 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; MSA's finalization of their deliverable to RL to provide a 300 Area Facility Disposition Business Case Analysis and was submitted to RL on February 25, 2010; MSA's finalization of a proposed revision to the DOE J-3 Hanford Site Services and Interface Requirements

Matrix, which was concurred with by CHPRC, MSA, PNNL, WCH, and WRPS, was submitted by MSA to RL for concurrence on February 26, 2010.

Interface Management also led development of a forecast of CHPRC's projected needs for MSA provided services required for the balance of FY 2010. This forecast was requested by MSA and will be included in the ISAP.

An agreement was reached on and a revision was issued to the ATL/CHPRC MOA for the Performance and Payment of Services to update the MOA to reflect ATL's new contract with DOE.

CHPRC worked with MSA and WRPS to resolve that MSA was responsible for the CSB/2704HV water loop. This was an issue based on past agreements under FH. MSA believed the loop, which serves multiple CHPRC and WRPS facilities, was the responsibility of CHPRC. Establishing clear ownership responsibilities was needed because of the need for recent emergency repairs of a PIV feeding a WRPS facility, plans to tie-in a new WRPS trailer complex to the loop, and the loop's role in the fire hazard analysis for associated CHPRC and MSA facilities. A revision to the CHPRC/MSA Water Systems Administrative Interface Agreement is being prepared to document the details of this agreement.

Interface Management worked with MSA and the CHPRC Soil & Groundwater Remediation (S&GWR) Project on MSA Analytical Services not 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 100K Waste Sites Project, in the initial stages of ramping up. To meet associated TPA and PRC commitments associated with these projects over the next several years, CHPRC needs MSA to consistently meet sample short turnaround times, particularly radiochemical analysis. Consistent support of samples with short turnaround times will be needed by July 2010 if these projects are to be executed on schedule. CHPRC continues to work this issue with MSA.

CHPRC prepared a proposed update to the CHPRC/MSA Administrative Interface Agreement for use of super dump equipment to support CHPRC Waste Transportation and Disposal by construction forces to reflect changes in the use of specific super-dumps in the field and to address the potential to procure additional super-dumps.

Interface Management developed a proposed resolution to CR-2010-0361, "Based on worker feedback the vehicles currently in use are bigger than necessary for task". During a recent analysis of CHPRC vehicle incidents, worker feedback was received that many are uncomfortable with the size of the vehicles that they are asked to use. Although the data in the common cause analysis did not indicate that vehicle size was an issue, this was identified as an opportunity for improvement. The proposed resolution is undergoing senior management review prior to implementation.

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

### **ARRA**

The Slightly Irradiated Fuel Interim Disposition Project was selected as the Columbia River Basin Chapter - Project Management Institute 2010 Project of the Year.

The ARRA Mobile Facilities Installation Project made seven (7) additional mobile facilities ready for occupancy. The two Phase III mobile facilities procurement contracts were awarded in February. Phase III consist of ten Sites and a total of 36 new mobile units.

Central Engineering technical support to the CHPRC included:

- Leadership is being provided to the DOE-wide effort to develop Commercial Grade Dedication (CGD) procedures and policies. Training was presented as a part of the Energy Facility Contractors Group (EFCOG) Quality Assurance Board of Directors meeting in February. The DOE National

Training Center has become a participating partner in the training development and delivery process. Conference calls were held to discuss a draft procedure and to lay the foundation for preparation of detailed examples for training. A face-to-face working meeting is tentatively scheduled for March 16 and 17 at Hanford.

- PRC-PRO-EN-40271, *Engineering Design Process*, was published on February 16, 2010. PRC-PRO-EN-40271 describes the engineering design process used in the preparation and implementation of CHPRC designs for construction and fabrication of Systems, Structures, and Components (SSCs) at the Hanford site.
- Central Engineering continues to review unlisted equipment that arrives on site, and coordinates implementation of the non-NRTL checklist and subsequent approval. During February, the following items were evaluated: 1) 12 scissor lifts to be used at PFP; 2) a Masterflex<sup>®</sup> E/S<sup>™</sup> portable sampler to be used by cold and dark; 3) Bench top centrifuge, to be used at WCSF lab; 4) JLG Man lift to be used at WRAP.
- Central Engineering attended American Society of Mechanical Engineers (ASME) Code committee meetings in Atlanta, GA. Engineering personnel are involved with the writing of rules for waste storage container internals, to be published in Section III, Division 3, Subsection WD.

### Communications and Outreach

During the month of February, Communications was heavily involved in the Slightly Irradiated Fuels Project's submittal for the Project Management Institute's Project of the Year. Communications helped prepare both the written materials and the presentation and provided presentation coaching to the management team.

Communications produced several video projects, including a *Faces of the Recovery Act* video, featuring a team of ARRA new hires speaking about their struggles and economic hardship before finding work at Hanford and a video about Nuclear Chemical Operators (NCOs) for Human Resources to use as a recruiting tool at job fairs. Additionally, the video department produced weekly videos showcasing ARRA activities, including the use of super dump trucks to remediate the BC Control Area, demolition of the lower Arid Lands Ecology buildings, demolition preparations at the 200 East Core Industrial Complex, remediation in the 100K Area, participation at the Columbia Basin College job fair, installation of wells for the 200 West Groundwater Treatment Facility.

On an extremely tight turnaround, Communications supported the release of the General Hanford Site Decommissioning Activities Engineering Evaluation/Cost Analysis for public review. This included developing and coordinating the review process for an advance notice to stakeholders, a factsheet, and display advertising in local newspapers. Communications also placed the document and fact sheet in the administrative record and ensured that the package was issued to the public reading rooms.

Communications developed and coordinated the review process on a 30-day notice for the TPA change packages for Central Plateau waste sites, facilities and groundwater and mixed transuranic waste and mixed low-level waste stored in the Central Plateau.

Communications also drafted a fact sheet and updated a presentation explaining the TPA change packages involving the Central Plateau waste sites, facilities and groundwater.

Communications helped coordinate an EnviroIssues public workshop for the Soil and Groundwater Remediation Project by finding the facilitator and reviewing and clearing presentations.

Other areas of support were publishing the monthly newsletter *On the Plateau* showcasing employee, project and safety accomplishments, and the *CHPRC Recovery Act Update* weekly newsletter capturing CHPRC's ARRA funded accomplishments including articles on new hires and remediation efforts.

Supported the Central Plateau Cleanup Strategy team in preparing for several stakeholder interactions including; presentations at the Hanford Advisory Board meeting, Tri-Cities Communities, and Hanford Advisory Board River and Plateau Committee.

Other miscellaneous communications activities included: drafting five groundwater fact sheets; developing a communications plan for the rollout of the TPA change packages; and providing information for the program update for the February Hanford Advisory Board meeting.

## 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 38 of the 174 remaining gloveboxes and hoods from their originally installed locations throughout the 234-5Z Building, completed the removal of process equipment from 20 others, and decontaminated 13 to meet low level waste transportation and disposal criteria. Deactivation and Decommissioning (D&D) crews initiated removal of combustible waste from gloveboxes and hoods throughout 234-5Z Building in support of a new combustible control program.

**234-5Z Laboratory Areas** - Gloveports were activated and combustible materials removed from six hoods in Room 139 and from HC-46F in Room 170. In the former Standards Laboratory, remaining external equipment was removed from Glovebox 221D-5, readying the glovebox for isolation from building ventilation and removal; disassembly of analytical cabinets in Rooms 221C and 221D was completed to support the upcoming cleanout and removal of five gloveboxes in 221D. In addition, decontamination of three gloveboxes in Room 136 of the Analytical Laboratory is nearing completion; legacy waste in Room 144 was removed in preparation for disposition of waste chemical items stored in laboratory hoods; chemical decontamination was initiated on three hoods in Room 149; and, removal of external equipment attached to three hoods in Room 191 was initiated. PFP criticality safety and emergency response documents associated with work in the adjacent 236Z and 242Z Buildings have been modified to limit impacts on work in nearby portions of the 234-5Z Building. This will eliminate the need to suspend D&D work in portions of the Analytical Laboratory during future canyon and cell entries in the adjoining buildings.

**Plutonium Processing Areas** - In the 234-5Z RMA Line, D&D crews successfully completed process equipment removal from multi-story Gloveboxes HA-19B1 and B2. Also in the RMA Line, removal of external equipment from Glovebox HA-46 continued and activation of the glovebox began in support of internal process equipment removal. In the former Radioactive Digestion Test Unit (RADTU) installation of a large-area containment was completed to support cleanout of multiple gloveboxes, and preparations were initiated to replace the inlet filters prior to beginning work on Glovebox 400. In the RMC Line, work continued to remove external piping stubs from the outside of Glovebox HC-60 in an effort to reduce contamination on the box to a level that will support onsite disposal as low level waste. Process equipment removal was also initiated on Glovebox HC-230C-2.

**Infrastructure Systems** – The last of the safety showers and eyewash stations to be deactivated and removed this fiscal year were removed from Room 166 and the Standards Laboratory. A previously deactivated steam turbine controller was removed from the 291Z Building, as was about half of the steam piping that needs to be removed in 291Z to provide space for access to and removal of equipment

from areas requiring D&D. Arrangements have been completed for reuse of most of the hundreds of jersey barriers and ecology blocks that once made up several extensive vehicle barriers for security around PFP. Construction of a new remotely operated rollup freight door, with an inflatable seal, at Door 135A neared completion. The new doorway will permit direct loading of gloveboxes and other waste containers into larger, end-loading transport containers without the need to transport the heavy containers out of the building, across the PFP yard via fork lift, and lift them into top-loading containers with a crane.

Insulators continued removal of asbestos insulation from piping in the 234-5Z Building, bringing the total removed under ARRA funding to more than 7,600 feet.

Preparations continued toward initiating the removal of more than 5,000 feet of process vacuum lines throughout the facility, beginning in late February. A contract was also placed for the procurement of large chillers which will be used beginning next summer to cool radiologically controlled areas of the 234-5Z, 236Z, and 242Z Buildings.

**Solid Waste** - The Solid Waste staff, with support from the Waste and Fuels Project, completed preparations for packaging and shipping three hoods previously removed from Room 131 of the Analytical Laboratory using the Contaminated Equipment – Special Package Authorization (CE-SPA) process. The gloveboxes were loaded into an end-loading IP-2 container for shipment to the Environmental Restoration Disposal Facility (ERDF) on February 9.

**Decontamination Agent** - Significant progress has been made in developing alternative processes to supplement the use of RadPro in decontaminating gloveboxes and other process equipment at PFP and the use of Surface-contaminated Object (SCO) surveys to characterize and authorize transport of successfully decontaminated equipment to ERDF as low level waste. Three gloveboxes were shipped to ERDF in mid-February using the CE-SPA process, and a contract has been awarded to test Aspigel® (decontamination agent) for use at PFP.

**2736Z/ZB Vault Facility** - Work is well underway to clean out and ready the former plutonium vault storage complex for demolition, including three vault and support buildings. Mechanical and Electrical isolation was completed on Glovebox 636 in the 2736Z/ZB complex. In addition, SCO was completed on the East Hood of the 636 Glovebox.

**242Z – Americium Recovery Facility** - Preparations were made for an entry into the 242Z Americium Recovery Facility to further assess the condition of the control room and the fire protection systems. This will be the second entry into this highly contaminated facility since 2005. The building was heavily contaminated as a result of an explosion in a glovebox in the 1970's and few entries have been made since that time.

## Base

D&D teams continued removing process equipment from the Plutonium Reclamation Facility (PRF) (236Z Building) gallery gloveboxes. Process equipment removal from the second floor west gallery glovebox is complete. Functional testing of the canyon crane was conducted which identified items that needed to be addressed prior to operation. In addition, the modifications to the drum dump containment have been completed and planning for the mock-up of the use of the containment has been initiated. Planning for the resumption of the manual method for size reduction of the pencil tanks has been initiated.

## RL-0012 Spent Nuclear Fuel Stabilization and Disposition

The Engineered Container Retrieval and Transportation System (ECRTS) Critical Decision-1 (CD-1) package was completed and submitted to RL on February 23. The Conceptual Design Report (CDR)

has been through an internal STP project and independent reviews (per CHPRC procedure) and comments have been incorporated. The Baseline Change Request that supports planning the next phase of the project (submitting a CD-2/3 package), as required by the Project Definition Rating Index (PDRI), was also completed and approved by the CHPRC Change Control Board (CCB).

The Knockout Pot (KOP) Conceptual Design Report preparation continues with the incorporation of the testing results and comments received during an internal project review. The STP External Review Panel (ERP) was on-site the week of February 16-18, and reviewed the KOP Disposition Project documentation. Along with the draft CDR, four technical basis documents were reviewed. They are: 1) Hydrate Analysis; 2) Thermal Analysis; 3) Multi-Canister Overpack (MCO) Load Plan; and 4) Drying Analysis. A formal design review (FDR) of the CDR package is planned for early March and the CDR submittal is schedule to be transmitted to RL by the end of March.

Maintenance and Storage Facility (MASF) personnel completed the fall protection plan for use of the horizontal life line with CHPRC approval for its use. They also completed the critical lift plan for the Hazards Review Board (HRB) review. The ISMS Phase II team attended the HRB for the K Basin Pool Mockup critical lift work scope and conducted interviews of MASF personnel. The subcontractor has completed all core drills for the beams on the east and west pits, installation of both beams on the west pit, and concrete cutting and removal of the south and north sides.

STP and 100K Operations personnel have completed removal of the sludge from Settler Tank #3 (S3) and emptied the contents into Engineered Container 230. The hose reel was relocated and entry was made on Settler Tank #4 (N3) for bulk retrieval. To date, very little overflow from EC 230 has been observed, indicating the filtration system, as tested at MASF, then installed to contain the overflow is working well.

### **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 40.0m<sup>3</sup> M/LLW and completed 62.9m<sup>3</sup> of M-91-42 waste during the month. TRU Retrieval set up Mobile Radioactive Decontamination Unit (MDU) trailer and initiated development of operating procedures. Next Generation Retrieval (NGR) received the Real-Time Radiography trailer, BROKK excavator, and Gamma Assay trailer. Alpha Caisson Retrieval completed and release Material at Risk (MAR) and Energetic Chemical reports. TRU Project repackaged 148 TRU containers, shipped 277 containers, and received 182 containers at T Plant. The Waste Receiving and Processing Facility (WRAP) completed non-destructive examination (NDE) for 347 drums and 88 non-destructive assay (NDA) drums. The ERDF container maintenance facility construction is complete and turned over to operations. In addition, three of the 14 new roll-on/roll-off-style trucks for transporting containers arrived on site. The mixed waste disposal trenches received 12 offsite shipments (35 containers) and shipped two leachate Beall tankers to the Effluent Treatment Facility (ETF).

#### **Base**

The WFMP continued maintaining facilities in a safe and compliant condition. The Waste Encapsulation and Storage Facility (WESF) continued support to Energy Savings Performance Contract construction demolition and upgrade activities. The Canister Storage Building completed the annual RAD-Vault inspections. The Central Waste Complex (CWC) received 17 on-site transfers (395 containers), two off-site shipments (six containers), shipped five off-site shipments (140 containers), and 23 on-site transfers (712 containers). Low Level Waste Burial Grounds (LLBG) placed two concrete

lifts into Module 10 waste encasement. The 200 Area Treated Effluent Disposal Facility (TEDF) discharged 2.0M gallons. Slightly Irradiated Fuel Project was awarded 2010 Project of the Year by Project Management Institute Columbia River Basin Chapter. The Mixed Waste Disposal Trenches received approval and commenced the back fill to grade over Trench 8 and Trench 16.

### **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. Columbia River levels continue to impact well development at 100-NR-2 where 40 wells have been drilled, but completion cannot be claimed until the river rises. Well decommissioning has been impacted by regulatory approval of wells slated for decommissioning. The metrics for well drilling and decommissioning were reported on a calendar month basis from September 2009 to January 2010. In order to maintaining consistency across the metrics, the well drilling and decommissioning metrics will now be reported on a fiscal month basis for February and future months.

Activity	February		Cumulative	
	Planned	Completed	Planned	Completed
Well drilling	12	40	72	95
Well decommissioning	13	9	64	16
200 West P&T – Final Design	12%	13%	38%	40%
200 West P&T – Construction	3%	2%	6%	5%
200 West P&T – Testing/Startup	1%	2%	8%	8%
100 DX P&T – Construction/Startup	9%	8%	29%	47%

#### **Base**

Base work includes the pump-and-treat operations, CERCLA remedial processes, and documentation for the River Corridor and Central Plateau. Construction and development of the final well supporting Phase 2 realignment of the KX and KR4 pump-and-treat systems were completed. 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. Sampling and groundwater treatment completed in February include the following:

- 160 well locations were sampled with a total of 686 samples being collected
- 24 aquifer tube samples were collected from 13 tubes at 11 sites
- 9.2M gallons groundwater treated by ZP-1 treatment facility
- 13.28M gallons groundwater treated by KX treatment facility
- 7.03M gallons groundwater treated by KW treatment facility
- 8.56M gallons groundwater treated by KR-4 treatment facility
- 4.23M gallons groundwater treated by HR-3 treatment facility
- 0.57M gallons groundwater treated by DR-5 treatment facility (after the system resumed operations following construction and realignment).

**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 212N/P/R Project has been completed. Analytical results are being summarized and reports are being prepared. Continued on the lower Arid Lands Ecology (ALE) structures and demolition has begun; 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 200E 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 19,700 tons of soil in February; approximately 14 acres of BC control area, Zone A have been cleared to date. In Zone B, 570 acres have been radiologically down posted. Excavation at one CW-3 waste site (216-N-4) continued with approximately 5,637 tons of soil removed during February. Sampling/surveys have been completed on seven of the eleven Model Group (MG)-1 sites.

**Base**

Planned surveillance and maintenance (S&M) activities continue. Preparations continue to allow change out of the B Plant high-efficiency particulate air (HEPA) and pre-filters.

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. 105KE deactivation activities conducted an electrical outage in mid-February. Continued field work for characterization of the reactor core, process tube, and port surveying.

Issued the explosive demolition request for proposal on 116KE (Reactor Exhaust Stack).

Continued final disposition characterization at 115KE (Gas Recirculation Building); isotope samples cannot be performed at WSCF so were sent to another lab and results are pending.

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

The 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building) below-grade asbestos set-up was completed; asbestos removal will begin in March.

Initiated demolition of the 183.1KW (Head House) above-grade structure; Continued demolition of 183.2KW (Sedimentation Basin).

Sample results from 183.3KW (Sand Filter) were obtained and demolition preparation was initiated.

Completed asbestos abatement at 183.7KW (Tunnel). Physical isolation (part of demolition preparation) was completed.

## Waste Sites

Continued waste site remediation of UPR-100-K-1/100-K-42, 100-K-56, 100-K-47, 100-K-3, and 100-K-53 Remove, Treat, and Dispose sites.

Waste Site	Feb-2010		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	1499	111	1625	120
100-K-56	3646	263	4774	358
100-K-47	1296	93	2054	154
100-K-53	0	0	0	0
<b>Totals</b>	<b>6,441</b>	<b>467</b>	<b>17,773</b>	<b>1,272</b>

The decision was made to have D4 perform the work of scabbling the diversion wall and breaking the remainder of the floor. Work remains suspended on UPR-100-K-1/100-K-42 until the diversion wall is scabbled.

Initiated remediation of the 100-K-53 pipelines. The pipes were tapped and found to contain glycol product. A path forward to collect and dispose of the glycol is being prepared.

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.

## Other

Continued debris removal from the K West Basin; over 261 units removed through February. The 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects have reached final design phases. Procurement of the Pall Microfiltration Unit has been awarded, with the Air Handling Units/HEPA filtration skids going through bid review. The procurement of components and fabrication of the skid mounted substation have been awarded. 100B import water line has been awarded and waiting for cultural review and approval.

## Base

### Facilities

Continued 116KW (Reactor Exhaust Stack) cold and dark.

Completed 1713KER (Shop Building) demolition and demolition load-out.

Continued demolition of 1724KB (Bottle Dock).

Completed cold and dark, and initiated demolition of the 1614K3 (Environmental Monitoring Station).

Completed cold and dark, and initiated demolition, at the 182K (Water Reservoir Pump House).

Continued 183.5KW and 183.6KW (Lime Feeder Buildings) decontamination.

## Waste Sites

Completed excavation of waste site remediation of 100-K-4 Remove, Treat, and Dispose site.

Waste Site	Feb-2010		Cumulative (9/28/09 – present)	
	Tons	Loads	Tons	Loads
100-K-4	1,611	113	2,989	210

**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 scheduled to arrive during the month of April after which repairs will be scheduled.

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**

- A letter was submitted to RL notifying them of a delay in completing implementation of the HEPA filter performance JCO closure effort caused by misunderstanding of the application of the combustible control program. The letter also requests approval of clarification changes for some legacy combustibles to be allowed to remain in gloveboxes if authorized by the fire protection engineer. The approval will also allow the canopy covered area outside of Door 125 to continue to be used for used laundry staging.
- Results of a negative Un-reviewed Safety Question (USQ) determination as an Evaluation of Safety of the Situation related to RADPRO decontamination solution waste rags in drum storage was submitted to RL. The submittal allowed cancellation of the Standing Operating Order restricting drums of RADPRO waste rags in Room 236.
- Electrical modifications, set up, and use of the new respirator issuance station occurred in February. The new location reduces waiting times to for personnel receiving respirators required for Project work activities.

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

- Process equipment removal from the PRF second floor west gallery glovebox is complete
- The function testing of the canyon crane was conducted on February 8. All functions were operational. The results of the test were reviewed and it was determined that beneficial use of the crane for training and the cleanup of the crane floor would be allowed. A minimum of eight entries will be needed to address the items identified during the functional testing.
- In support of the manual downsizing of the pencil tanks, reactivation of the maintenance cell gloves was initiated
- A decision was made to allow the strong backs to be left in the facility for demolition. However, some gross decontamination and/or application of fixative may be required. This may require characterization samples (contamination levels) to be taken following pencil tank size reduction.
- Glovebox gloves were reactivated on the maintenance glovebox and the combustible waste sealed out to support the upcoming implementation of the new combustible controls program

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

- In Room 230C continued decontamination of Glovebox HC-60 and final steps were initiated to remove Glovebox HC-230C-2. In Room 235B RMA Line D&D crews successfully completed process equipment removal from multi-story Gloveboxes HA-19B1 and B2.

- D&D crews initiated removal of combustible waste from gloveboxes and hoods throughout 234-5Z Building in support of a new combustible control program
- In Room 232 RMA Line, work on external mechanical isolation and removal of external equipment from Glovebox HA-46 continued. In addition, activation of the gloveports began in support of internal process equipment removal.
- Installation and activation of a large containment in Room 235D was completed. This will allow work on the RADTU Gloveboxes to progress without impacting the normal travel route for solid waste from the 234-5Z Building.

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

- Actions were completed to eliminate the termination of fissile material restrictions when making entries into 242Z and the PRF canyon
- The first entry into 242Z was completed as planned
- Dose estimates for use in the waste packaging and waste packaging guidelines were received
- Waste removal efforts were initiated in the 242Z air lock
- A Sample Analysis Form (SAF) was developed after liquid was discovered on the floor of 242Z control room. In addition, a Recovery Plan was developed to sample the liquid. An unsuccessful attempt to sample the liquid in the 242Z control room was made, because the liquid had evaporated.

#### **2736Z/ZB – Vault Complex**

- Mechanical isolation of the glovebox and hoods in Room 636 of 2736-ZB was completed
- Mechanical Isolation of the Liquid Nitrogen Generator was completed

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

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

- STP personnel briefed RL on the path forward for initial testing of potential Phase 2 treatment technologies and gained their concurrence on the plans. STP personnel have initiated meetings/teleconferences with the technology vendors to begin development of statements of work for the Round 2 testing programs for each of the primary technologies.
- A kick off meeting was held to initiate development of the Data Quality Objectives document for Garnet Filter media disposition. In addition, two focus group meetings were held to continue development of the DQO document to support Garnet Filter media characterization. Primary Study Questions (PSQ) dealing with Safeguards and Waste Acceptance were discussed.
- One of the Phase 2 technologies to be evaluated utilizes a special mixer dryer manufactured by the Littleford-Day Company. STP learned that the PNNL APEL facility was in the process of excessing a 22 liter Littleford-Day dryer originally purchased by the Demonstration Bulk Vitrification System Project for laboratory testing of a similar process. The Phase 2 project has started the property transfer process to obtain that dryer for use in the Round 2 testing.
- Staged the upper section of the Engineered Container mock-up at MASF to support use of cover brushes in support of testing overflow control, for when the 100K Basin Operations personnel vacuum the remaining floor and pit sludge from K West Basin into Engineered Container SCS-210
- A spare Settler Retrieval pump was successfully leak tested at MASF following installation of repair parts provided by the manufacturer. This spare unit is required because the initial backup pump has already been installed in the K West Basin. Leak testing was performed per construction work package 4A-09-07459/W and witnessed by Quality Assurance and the Design Authority.

- PNNL transmitted a report summarizing the results from the Stage 1 and Stage 2 settling studies of K West Basin containerized sludge to CHPRC for review
- A hazard analysis was conducted to review removing filters from SCS-CON-230. Also discussed at this meeting were the Emergency Preparedness activities that will need to be completed prior to lifting filters out of the water. Removal of these filters is necessary to prepare this container for sampling activities.
- In support of 100K Operations field work, MASF personnel continued development work on a long handle pole tool to measure the depth of sludge in the K West North Load Out Pit, fabricated spacers for the lid on SCS-CON-210 (where remaining floor and pit sludge will be vacuumed), and continued design/fabrication of lid cover brushes to help control sludge overflow once vacuuming re-starts
- The ECRTS Transportation Plan was added to the project files and provided to RL. The plan incorporates previously received RL review comments.
- PNNL provided a test report, *Parametric Dosage Testing of Clarifloc® N-3300P Using Actual K Basin Waste Core Samples*, to CHPRC. The objectives of the test were to show that flocculent could be used to reduce the turbidity of the slurried K West Basin solids. Test results demonstrate that the objectives were met during the study.
- Test report PRC-STP-TR-00181, *Sludge Treatment Project Slurry Transfer Testing for Direct Hydraulic Loading, Centrifugal Slurry Pump* (Hazelton pump wear test report) was approved by the Joint Test Group (JTG) (with comments)

## **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 93m<sup>3</sup> of ARRA funded M/LLW to treatment facilities, and completed 69m<sup>3</sup>
- The Site Specific LDR Variance for the “P015 Drums” was submitted to the WDOE
- Loaded and shipped the large yellow Type A metal box, on loan from Tank Farms, with three containers from the CWC Expansion Area, (supports M-91-43 PMB shipment commitments)
- M-91-42 TPA:
  - 40.0m<sup>3</sup> shipped and 62.9m<sup>3</sup> completed during month
  - 8,144m<sup>3</sup> shipped and 7,982m<sup>3</sup> completed since January 2003 (Base & ARRA)
- M-91-43 TPA:
  - 22.3m<sup>3</sup> shipped and 0m<sup>3</sup> completed during month
  - 693m<sup>3</sup> shipped and 662m<sup>3</sup> completed since January 2003 (Base & ARRA)

#### **13.05 TRU Retrieval**

- Developed Retrieval Corrective Action Plan; hazard identification & control, improvements to event response and other actions are in progress
- Continued planning 3A Trench 17 Boxes 82 and 80 repackaging and held Lessons Learned meeting with D&D Project on articulated excavator tools
- Resolved hydrogen issue on 3A Trench 17 Box 3; issued USQ for Transportation & Packaging (USQt) and approved work package to ship
- Completed large FRP box lift fixture repair and testing; ready for use at 3A on Box 3

- Set up Mobile Radioactive Decontamination Unit (MDU) trailer and initiated development of operating procedures
- Received and set up new 4B/4C restroom facility MO2323
- Next Generation Retrieval (NGR)
  - Received the Real-Time Radiography trailer, BROKK excavator, and Gamma Assay trailer
  - Issued the Trench Face Process System Requirements Compliance Matrix Document
- Alpha Caisson Retrieval
  - Completed and released Conceptual Design Report
  - Completed and released Material at Risk (MAR) and Energetic Chemical reports
  - Started final design on the Waste Retrieval System (WRS)
  - Started preliminary design on the Waste Processing System (WPS)

### **13.06 TRU Repackaging**

- Initiated use of the empty drum storage structure (229W)
- Completed repairs to the Empty Drum Compactor and compacted 144 containers
- Shipped 299 containers from T Plant
- Received 237 containers at T Plant
- Shipped one empty roll-off box and two Connex boxes to ERDF

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

- Non-destructive examination (NDE) 347 drums
- Non-destructive assay (NDA) 88 Non-WIPP drums
- Continued support of Pu-238 activities
- Completed Facility Operation class room training for 21 nuclear chemical operators (NCOs) – Working OJT/OJE

### **13.10 ERDF Additional Capabilities**

- Work on the facility access road continued with the completion of the structural fill
- The facility power pole and overhead lines were installed and workers performed electrical tie-ins at the utilities pole
- Interior electrical finishes continue and ecology blocks were placed at the facility property edge
- Additional concrete pours were performed on the exterior concrete pad
- Workers also prepared the facility floor and sealed it with a protective coating
- Final touches including fencing and equipment labeling were completed
- A formal walk-down with operations, engineering, safety, and fire protection personnel was performed
- The access road and the electrical installation for the Container Maintenance Facility are complete
- Facility National Electric Code inspections were performed and the facility workers finished leveling, placing, and compacting the top course material for the access road, bringing it to final grade

### **13.15 TRU Disposition**

- Consolidate Project Personnel at WRAP Complex
- Three CCP Idaho Process Knowledge (PK) documents reviewed
- 1034 Idaho drum data sheets through Public Release process
- Continuing close-out schedule for Hanford TRU program
  - Final three NCRs in closure signatures
  - Cancelled 45 of 53 procedures

- Revised 12 of 22 procedures
- Toured Idaho RH and CH waste processing facilities
- Met with DOE-CBFO and CCP Senior Management in Carlsbad
- Coordinating new trailers at WRAP to support new staff
- CCP implementation:
  - NDE: 105 drums
  - HSGS: completed ten HSG samples
  - Flammable gas sampling: CCP mobilization June/July
  - NDA: Completed CCP recalibration of GEA-A & GEA-B
  - Completed TRUPACT-II maintenance – ready to ship

### 13.21 Mixed Waste Disposal Trenches

- Shipped three leachate Beall tankers to ETF
- Received 11 offsite shipments, 30 containers
- Received one on-site shipment, 22 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

#### 13.03 Canister Storage Building

- Completed installation of Multi-Canister Overpack Handling Machine fall protection system
- Completed replacement of failed Gaseous Effluent Monitoring System sample pump

#### 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

#### 13.09 Central Waste Complex (CWC)

- Completed five off-site shipments, 140 containers
- Completed 23 on-site transfers, 712 containers
- Received 17 on-site transfers, 395 containers
- Received two off-site shipments, six containers
- Low Level Waste Burial Grounds (LLBG)
  - 218-W-3AE – Received approval and commenced the back fill to grade over Trench 8 and Trench 16

#### 13.11 Liquid Effluent Facilities

- Received (February) 43 tankers; (35K gallons)
- Treated (February) 2.7M gallons
- 200A Treated Effluent Disposal Facility (TEDF) discharged (February) 2.0M gallons
- Received ERDF leachate (~191,000 gallons) at LERF Basin 44
- Maintenance activities
  - Repaired steam leak in the Thin Film Dryer Room
  - Initiated repairs to the disposal sample pump
  - Initiated installation of new PC5000 Leak Detection System (WRPS ARRA funded)
  - Completed rebuild of Pump Station #3 check valves

- 310/340 Facilities
  - Completed Operability Acceptance Testing; working punch list items
  - Operating the Retention Transfer System; four batches discharged to City of Richland
  - Continued performing preventive maintenance activities (PMs) for systems that will remain active after turnover (HVAC, fire, and compressed air)
  - Trained Stationary Operating Engineers on systems they will be operating after turnover
  - Rekeyed and reprogrammed OMNIBLOCKS for the RTS facilities in anticipation of turnover

### **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)
  - Slightly Irradiated Fuel Project was awarded 2010 Project of the Year by Project Management Institute Columbia River Basin Chapter
  - Issued the Definitive Design for Project W-105, Interim Storage Cask Pad #3, which includes the Container Restraint System (CRS)
  - Completed Plant Forces Work Review for Project W-105.

### **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% designs for the Process Facility and Balance of Plant; anticipated completion April 15, 2010. Fifteen road crossings have been completed and grubbing for transfer piping continues for 200W pump-and-treat. The request for expression of interest for the Process and Rad facilities has been released; with bids due March 12, 2010. Completed design presentation to EPA on February 17, 2010 (no actions).
- The 100-DX Pump-and-Treat construction is 50% complete. Construction of the process building and two transfer buildings by the fixed price contractor is complete with the exception of one punch list item. Electrical service installation to the buildings was completed February 9, 2010, with the exception of the final tie-in. Final tie-ins at the power poles by Electrical Utilities are planned for after equipment installation is complete. Installation of equipment inside the process building began on January 25, 2010. Piping and electrical work is on-going in all buildings.
- In order to maximize initial throughput at DX, four new extraction wells that were previously planned to tie into the new HX facility, will be routed to the DX Transfer Building M2. Design changes for these four new wells are complete, and one of two new required road crossings has completed construction. A 90% design review for the civil/structural portion of the chemical addition system was completed on February 9, 2010. The design has been sent to the contractor for pricing. A proposal is expected by March 22, 2010 from the fixed-price contractor.
- Procurement and receipt of materials for the facilities is on-going. The first two skids are scheduled to arrive on site March 29, 2010. Delivery of the vertical transfer and booster pumps is scheduled for March 31, 2010. A contract was awarded for the dual laminate Fiberglass Reinforced Plastic (FRP) Polyvinylidene Fluoride (PVDF) lined, vertical tank for storage of sulfuric acid for the chemical addition system. This tank has a 19 week lead time and is scheduled to arrive on site July 22, 2010. A procurement specification for the carbon steel

vertical storage tank for storage of sodium hydroxide was approved; the project is expecting bids from a request for proposal on March 12, 2010. A Project Review Board was conducted February 25, 2010 and the project was approved to proceed conditioned on three action items being completed by March 27, 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 construction was completed at the KR4 system during January. Completed outage at the KX Process building during February to tie-in electrical and mechanical upgrades.
- 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. The cultural review request (SHPO) for the construction activities in previously undisturbed areas (some road crossings, wells, and the building) site has been submitted to DOE for concurrence.

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

Held the fourth Senior Executive Committee (SEC) meeting in Seattle, WA on Wednesday, February 24, 2010. The session continued discussion on the Central Plateau Cleanup Completion Strategy negotiations.

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

The planning for the outer area baseline risk assessment was completed and the production of the risk assessment was started.

The technical document for bio-intrusion depth in the Central Plateau for publication was drafted and started through internal review and approval (as an internal PRC document).

Issued the Revision 0 documents for the “Annual Summary of the Integrated Disposal Facility Performance Assessment 2009”, the “Annual Status Report (FY 2009): Composite Analysis of Low-Level Waste Disposal in the Central Plateau of the Hanford Site”, and the “Annual Review of the 200 West and 200 East Area Performance Assessment (January 1, 2009 – September 30, 2009).

### **Environmental Data Management**

The WIDS Administrative Interface Agreement (AIA) was reviewed by RL, and the team was complimented on doing an excellent job – especially in the level of detail. The AIA is in routing for final sign off by the Hanford prime contractors.

### **Cost Estimating**

- Procedure has been sent to the Procedures Group and is awaiting formal review.
- Supported projects (SWL/NRDWL landfill closure options, BC-1 FS, U-Zone) with cost estimating services.

**Well Drilling and Decommissioning – ARRA**

	February		Cumulative	
	Planned	Completed	Planned	Completed
100-NR-2	8	32	41	60
100-HR-3 H Area	0	0	12	12
100-HR-3 D Area	3	5	8	14
200-BP-5	0	1	1	1
200-ZP-1	1	1	6	5
100-BC-5	0	1	4	3
Total	12	40	72	95
Decommissioning Total	13	9	64	16

**Notes:**

- *200-BP-5*: The “K Well” and “M Well” are in construction. Planned metrics (wells drilled, constructed and developed) are to be complete by end of March.
- *200-ZP-1 Expansion*: Currently, nine of 17 wells have been initiated and five wells are metrics complete.
- *100-BC-5*: The remaining wells to be metrics complete by the end of February.

**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 most of the comment responses have been incorporated into the Rev. 0 versions of the work plan and associated SAP through a collaborative process with RL and EPA. The documents are near finalization.
- All sampling work (base funded) for the four-well drilling campaign is now complete. Sampling activities were completed for the fourth well, C7665 (total depth of 152.3 ft bgs), on February 16, 2010.

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

- Acceptance testing field checks of KR4 pump-and-treat system components impacted by Phase 2 realignment were completed, and flow through the KR4 system was restored to full capacity (300 gpm). Extraction wells 199-K-144, 199-K-145, and 199-K-162 now flow through the KR4 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. All remaining Phase 2 construction activities associated with the KX system were completed and construction walk down performed to prepare for acceptance testing.
- Consultation with Tribal Nations regarding proposed locations of three of the four planned Phase 3 realignment wells continued this month. A revised draft of the KR4 pump-and-treat system cultural treatment plan (DOE/RL-96-44) was completed and provided to RL for review. This revision 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.
- Based on December discussions with EPA, a bio-infiltration treatability test is being planned for implementation at the 183.1-KW head house as work continues on the FFS/PP. Development of

the infiltration test conceptual design and components of the treatability test plan is underway. Ecology, EPA, and RL have accepted the strategy for ceasing the development of a Focused Feasibility Study/Proposed Plan for hexavalent chromium in favor of conducting two design tests for bioremediation (in situ bioremediation at 100-D, and bio-infiltration at 100-K). Internal discussions are being held to formulate a strategy for renegotiating the M-016-155 milestone to include the treatability tests.

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

- Joint regulator (Ecology and EPA) comments were received in January on the NR-1/2 OU Proposed Plan to Amend the Interim ROD (Draft B). Final comment responses to these joint regulator comments were provided to RL on February 25, 2009. The document has been revised to address these comments, and this revised document was provided to RL on February 25, 2010, for informal review prior to finalization as Rev. 0.
- Draft A of the 100-N Operable Units Work Plan Addendum and SAP, as transmitted in December, were reviewed by Ecology. Initial comments were officially received from Ecology on January 29, 2010. A workshop was held on February 17, 2010 to exchange information useful in finalizing the work plan. Following that workshop, a second and final set of comments were received from Ecology on February 22, 2010. Drafting of comment responses was initiated, and these initial responses are currently being incorporated into a Draft B version of the document for submittal to Ecology in mid to late April.
- Core sampling (as part of the 171 well drilling campaign) was completed by February 10, 2010, to support the evaluation of the Jet Injection test. These samples are now at Pacific Northwest National Laboratory (PNNL) for analysis. All results will be incorporated into a final test report, which will be initiated in early March.
- Engineering was completed on the design for an injection system for the Apatite Barrier expansion, with the final design issued on February 10, 2010. A notice to proceed has been issued for the contractor to provide an estimate and schedule for skid manufacture, with an expected due date of March 8, 2010.
- Total petroleum hydrocarbon studies are continuing with PNNL as planned. This work has been extended to summer 2010 to allow for upcoming groundwater sampling of new wells (recently 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. The rebound study was extended to examine the influence of the river at high water. Due to the chromium concentrations measured in the RUM wells, 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 resumed operations after acceptance testing of construction modifications and realignment to extract water from the "hot-spot" in the southern D area plume using extraction well 199-D5-104.
- 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. A contract was issued for MSA to perform road upgrades necessary for safe building access. Comments have been resolved, and the cultural review document has been submitted to RL, for review and approval.

- 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. As a result of the cancelled Focus Feasibility Study, discussions have been held with RL to revise the test plans to support higher visibility by regulators, and potentially, the public. Design efforts for these tests began in February, including a visit to the proposed test location and site walk down by the subcontractors preparing the test design.
- A Mini-SAP has been approved to support transitional river stage Decision Unit Risk Assessment groundwater sampling. The remaining results are in from the October (low river stage) sampling event, and are being evaluated.

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

- Extensive reorganization of the Draft A 100-F & IU-2/6 Operable Units Work Plan Addendum was completed to satisfy the EPA requested format, and most of the comment responses have been incorporated into the Rev. 0 versions of the work plan and associated SAP through a collaborative process with RL and EPA.

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

- EPA final comments to the RI/FS Work Plan and SAP Draft A have been addressed, and comment resolution is nearly complete. An engineered lithology will be emplaced at the bottom of the existing excavation at 618-1 and will be used in subsequent treatability test plans to evaluate remediation technology delivery mechanisms.

### **Central Plateau**

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

- Transmitted the final Rev. 3 200-UP-1 OU Groundwater Remedial Design/Remedial Action Work Plan (DOE/RL-97-36) to DOE as a contract deliverable for approval
- Completed initial hydraulic capture zone analyses for the WMA S-SX Tc-99 plumes that indicate a two well extraction system at 50 gpm total would be sufficient to capture the plumes at concentrations greater than 9000 pCi/L (10 x MCL)
- Completed U Plant P&T extraction well cleaning (brushed and surged) which resulted in a modest increase in pumping rate. An additional chemical treatment is being planned to remove the remaining scale from the well screens.

#### **200-BP-5 Operable Unit - Base**

- The drilling/sampling of the K and M wells were completed. Sample analyses continued.
- Issued a data quality assessment report for groundwater monitoring data in support of the RI Report
- Issued the depth discrete groundwater sampling plan (PNNL-19129) for select wells in the B Complex Area in support of the RI
- Completed the sampling of 8 of 14 wells

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

- Completed the decisional draft of the 200-PO-1 Groundwater OU RI Report, DOE/RL-2009-85 for DOE review

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

- For the interim pump-and-treat system, 12 of the 14 groundwater extraction wells are on line pumping water at a rate of approximately 260 gpm
- Wells EW-7 (C7022), EW-9 (C7577), and EW-12 (C7019) are currently at a depth of 511 ft, 180 ft, and 432 ft respectively
- RL recently issued the Performance Monitoring Plan to EPA for review. EPA comments are due back on April 2, 2010.

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

- PW-1 active SVE operations started up March 1, 2010 as planned. Both systems are running smoothly. The 2010 monitoring plan was updated and signed by RL and EPA prior to startup. Replacement SVE hoses are being ordered.

**Regulatory Decisions and Integration - Base**

- Transmitted the 200-MW-1 Feasibility Study (Draft A) to EPA on February 25, 2010 in accordance with TPA milestone M-015-44B.
- Transmitted the 200-UW-1 Sampling and Analysis Plan for the U-8 and U-12 Cribs (Draft A) to Ecology.
- Issued a statement of work for the electrical resistivity survey for the borehole installation in the U-Area.
- Completed drilling and sampling of the 216-B-12 borehole.
- Received final analytical results for the 216-B-6 borehole. The Tier I (grab samples) analyses are underway.
- Began field mobilization for the 200-CW-1 supplemental characterization and the Gable pipeline sampling.
- Work continues on the Outer Area feasibility study and proposed plan that includes the 200-CW-1 outer area ponds in accordance with TPA milestone M-015-38B.
- Work continues with the RL/Ecology working groups, including EPA participation, to resolve comments on the SWL and NRDWL closure plans. The revised draft closure plans are to be reviewed by participants and then jointly discussed in a follow-on workshop scheduled for the week of March 29.
- Incorporated RL's comments on the West Lake Sampling and Analysis Plan (Decisional Draft) with the Draft A document to be provided in March.
- Completed a three day workshop with RL and site contractors to develop the scope for the Non-Operational Areas evaluation in the Outer Area.
- Received RL's comments on the 200-MG-1 Removal Action Work Plan (Decisional Draft) for 37 Remaining Waste Sites in the Outer Area.

**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 February:

- Drilling of the 20 boreholes needed for instrumenting and logging for the pilot test commenced on February 25, 2010.

- Ground scans and GPS coordinates for the new power poles have been completed in support of developing the excavation permit supporting the field work for the 13.8 KV power supply. This will operate the three phase 480 Volt equipment used in the pilot test. Field work for the electrical upgrade is scheduled to be completed in March.
- 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.

## **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
- 212-N/P/R Buildings D&D
  - The report for the sampling of soil beneath 212-N/P/R is being prepared. After the report is approved, backfilling of the excavations can proceed.
- 200-E Project
  - Completed Cold and Dark of three buildings
  - 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 February. Approximately 8,300 tons of soil has been removed and transferred to the Environmental Restoration Disposal Facility (ERDF).
  - Closure Documents for sites 2607-N/P/R are being prepared
  - Verification samples were collected from waste site 216-N-1 on January 29, 2010. The samples have been analyzed and no further remedial action is required.
- ALE D&D
  - Began demolition activities on the lower ALE facilities
  - Began asbestos abatement activities on Upper ALE facilities
  - Began debris pile removal on lower ALE
- BCCA Waste Site Remediation
  - Remediation using super dump trucks continued with approximately 50,000 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), 570 acres in the 6.7 square mile Zone B have been radiologically down-posted
- MG-1
  - The Response Action Completion Report for 200-E-110 and 600-21 was submitted to DOE on February 23, 2010

- Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 and 200-E-101 are being prepared.
- Preparations for RTD of site 600-40 are ongoing with an anticipated start during March
- The Action Memorandum for the next MG-1 sites is at DOE for initial review. The RAWP has been forwarded for concurrent internal and DOE review.
- Site 600-218 Confirmatory Sampling No Further Action (CSNFA) sample results indicate RTD is required. Additional sampling has been performed to evaluate the extent of RTD.
- Verification sampling of site 600-36 was performed in February to determine whether remediation is complete. Post RTD sampling results for site 600-36 are being reviewed; initial screening appears favorable.
- CSNA sampling of site 600-262 was performed at depth utilizing an auger. Results are pending.
- The SI was finalized for 600-38. Sampling will be performed in early March

### **Base**

- S&M
  - Continued effort for the B Plant HEPA and pre-filter change-out

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

#### **Facilities**

- Continued design, project definition, and pre-characterization work of 105KE Reactor Disposition. Continued deactivation activities and conducted an electrical outage.
- Isotopes contained in 115KE (Gas Recirculation Building) samples required removing existing samples from the WSCF lab. Lab tests were performed at a private facility. One final oil sample is needed in early March.
- Issued the demolition explosives request for proposal on the 116KE (Reactor Exhaust Stack): potential vendors are scheduled for March site visits after which they will submit their bids, resulting in contract issuance planned in early April.
- Continued cold and dark at 117KE (Exhaust Air Filter Building)
- Completed an independent structural review of 1706KE (Radiation Control Counting Laboratory) and 1706KER (Water Studies Recirculation Building) which confirmed structural integrity. Scaffolding was erected for asbestos removal, which will begin in March.
- Initiated demolition of the 183.1KW (Head House); the above-grade demolition should finish
- Demolition continues on 183.2KW (Sedimentation Basin), where wall removal has been done on both sides, working towards the 183.7KW tunnel running through the center of 183.2KW.
- Completed asbestos abatement at 183.7KW (Tunnel). Glycol removal was completed, but glycol removal continues on the balance of the 100KW facilities. Physical isolation from adjacent buildings was completed.

#### **Waste Sites**

- Remediation continued on pipelines associated with 105KE Reactor effluent and miscellaneous laboratory type drain lines. This includes 100-K-56, 100-K-47, and 100-K-3.
- Remediation was initiated on 100-K-53, 100-KE Glycol Heat Recovery Underground Pipelines

#### **Other**

- Reached Final Design Phase for 100K Utilities Re-Route Project: initiated the procurement process on long-lead procurement items and placed major construction contracts

## Base Facilities

- Continued 116KW (Reactor Exhaust Stack) cold and dark. This stack will be exploded concurrent with the 116KE stack during this summer.
- Completed cold and dark, and initiated demolition of 1614K3 (Environmental Monitoring Station). This facility was in the FY 2013 baseline, but was accelerated due to its proximity to other facilities in the demolition process. Demolition load-out should complete in early March.
- Completed 1713KER (Shop Building) demolition and demolition load-out
- Continued demolition of 1724KB (Bottle Dock); final demolition and load-out should complete the first week of March
- Completed 182K (Water Reservoir Pump House) cold and dark. Electrical isolation was completed and above-grade demolition began. Below-grade demolition cannot commence until the new utility systems are operational.
- Continued 183.5KW and 183.6KW (Lime Feeder Buildings) decontamination. Revised pedestrian walk-ways are being developed. These buildings will be removed when the 183.3KW (Filter Basin) is removed.

## 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** – An additional decontamination process for PFP 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 ERDF. This avoids the more hazardous, time consuming and costly processes needed to size reduce the equipment, package it for disposal as TRU waste, and transfer it to CWC for final disposal at WIPP.

**Corrective Action:** A contract has been awarded for additional testing of the Aspigel<sup>®</sup> product to determine its suitability for use as a supplemental decontamination agent at PFP; results are expected in April. PFP will also be observing a demonstration of another product, Decon Gel, at 100K in March, and obtaining test results on the product from SRS. An alternate approach for characterizing and transporting gloveboxes for disposal at ERDF using the Contaminated Equipment – Special Package Authorization (CE-SPA) process was successfully piloted with a shipment of three gloveboxes to ERDF on February 9.

**Issue Statement** – Implementation of the Surface Contaminated Object (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.

### RL-0013 Waste and Fuels Management Project

**Issue Statement** – Potential hydrogen hazard in inner containers in 3A Trench 17 Box 3 exceeds the Retrieval Boxes One-Time Requests for Shipment authorized payload for shipment to the Central Waste Complex.

**Corrective Actions** – Obtain Transportation authorization from RL to permit shipping FRP boxes with inner containers greater than 5% hydrogen.

**Status** – Potential inability to ship ~228 m<sup>3</sup> (at least five boxes with inner containers) planned for retrieval from 3A Trench 17.

**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.

**Issue Statement** – WMP-331-PS-414, 'Canister Storage Building (CSB) Radioactive Air Emissions,' contains a State of Washington, Department of Health (DOH) requirement that pitot tubes be leak tested and inspected for contaminants annually. While developing responses to questions asked during a DOH stack inspection on 2/24/10, it was recognized that these required inspections are not being performed for the ‘annubar’ used for flow measurement in the CSB stack monitoring system. It appears these inspections have not been completed since 2003.

**Corrective Actions** – Required notifications have been completed. DOH was briefed on 3/8/10. Work package has been prepared to complete the required inspections and is scheduled for 3/18/10. Extent of Condition determined this to be isolated to the CSB exhaust stack. Issue has been entered into CRRS for causal analysis and corrective action tracking.

**Status** – Flow measurements are not in question as quarterly functional tests of the annubar have been completed with no abnormalities noted. Issue is under review with the DOH and may result in a Notice of Violation.

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

**Issue** – Cultural reviews are impacting roads and pads, well locations, decommissioning and planning documents.

**Corrective Action** – Project initiated drilling on the non-sensitive area within each respective drilling campaign.

**Status** – Well locations are staked immediately after identification to begin the document planning process.

**Issue** – Agencies have requested additional characterization data from the deep vadose zone boreholes be included in the revised 200-UW-1 Proposed Plan due June 30, 2010 (TPA M-015-83). Even with expedited drilling, this data will not be available to support the 200-UW-1 Proposed Plan Milestone.

**Corrective Action** – Process a TPA change notice to establish a new TPA date for submittal of the proposed plan for the 200-UW-1 waste sites.

**Status** – A schedule for the 200-UW-1 Proposed Plan with the additional characterization data was provided to Ecology. In addition, RL sent a letter to Ecology (10-AMCP-0092) stating that the 200-UW-1 waste sites will be incorporated into the 200 West Area decision document.

**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 prevent additional delays to the tests, design work has started in parallel to the test plan revisions. As appropriate, additional resources are being added to accelerate design efforts.

**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 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 March, production rates should gradually increase with the removal of that source term. Information on the overall nature and extent of contamination is being used 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 February, 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.

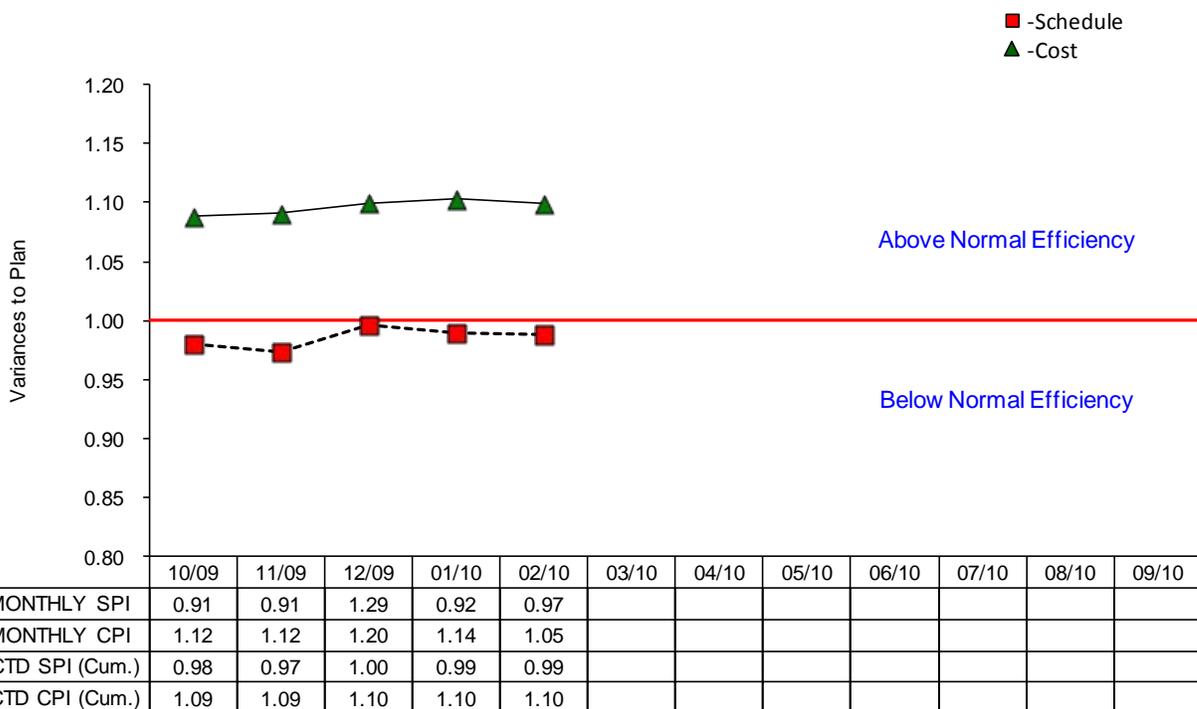
**Issue Statement** – Approximately ten new sites have been discovered where radiological or chemical contaminants are being found above cleanup standards.

**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.

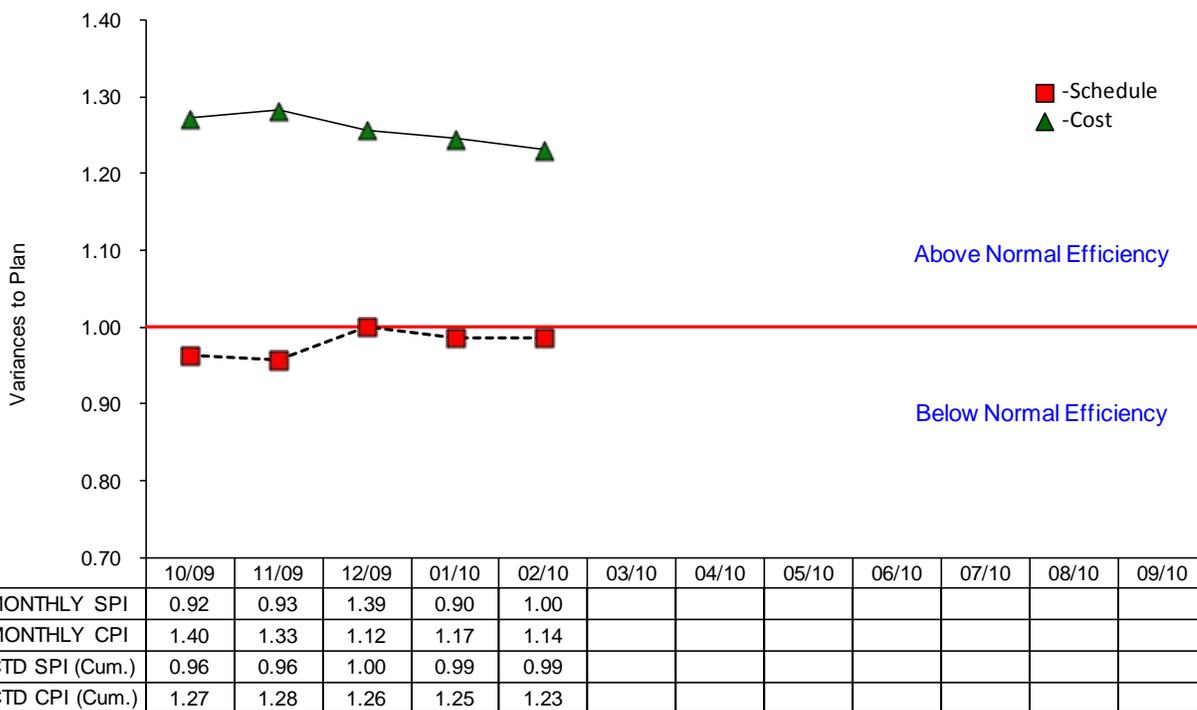
**Status** – BCR/REA process continues.

## EARNED VALUE MANAGEMENT

### Schedule and Cost Performance Indices



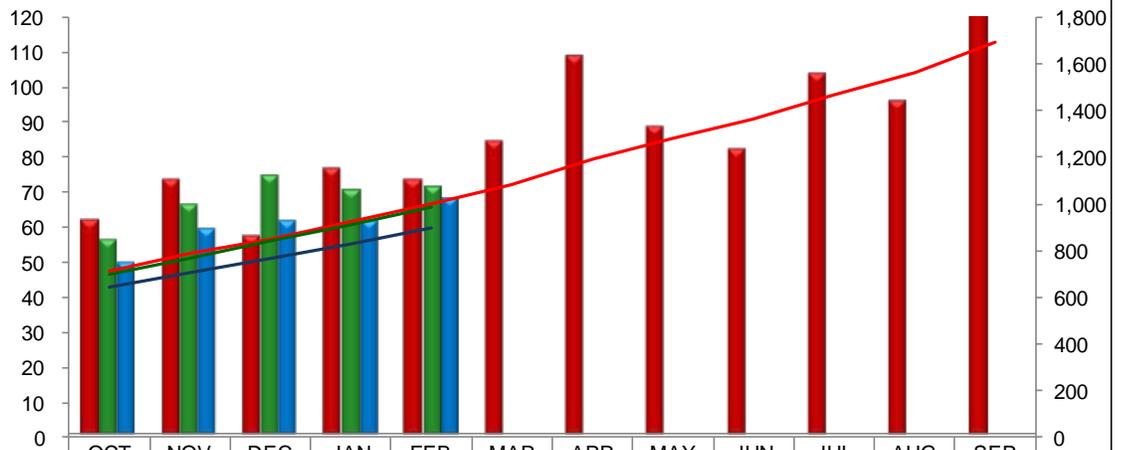
### Schedule and Cost Performance Indices - ARRA



### Schedule and Cost Performance

Bars: Current Month (\$M)

Lines: Contract To Date (\$M)

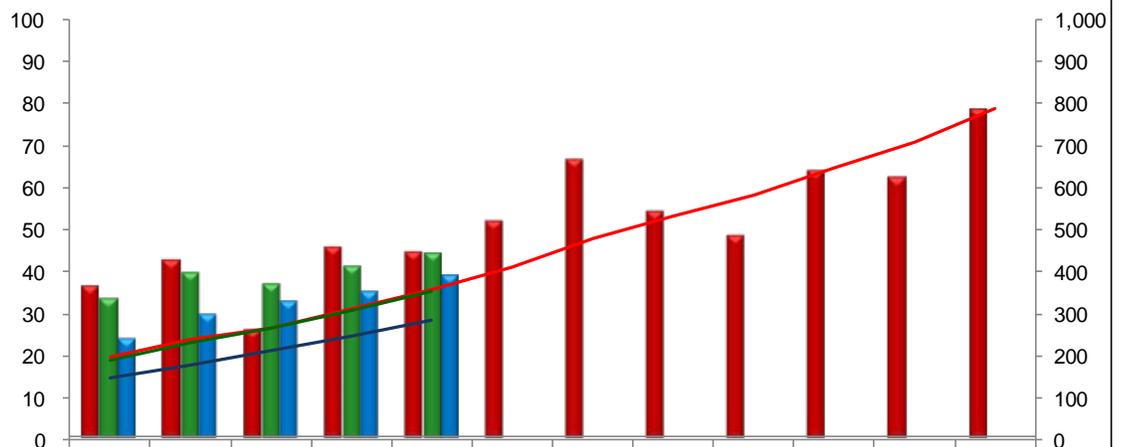


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	62.1	73.4	57.7	76.8	73.7	84.8	108.8	88.9	82.1	103.8	96.2	129.4
MONTHLY BCWP	56.4	66.6	74.7	70.6	71.7							
MONTHLY ACWP	50.3	59.6	62.1	62.0	68.4							
CUMULATIVE BCWS	715.5	788.9	846.7	923.5	997.2	1,082.0	1,190.8	1,279.7	1,361.8	1,465.6	1,561.8	1,691.2
CTD BCWP	701.8	768.4	843.1	913.7	985.4							
CTD ACWP	644.8	704.4	766.5	828.5	896.9							

### 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	52.0	66.4	54.4	48.8	64.0	62.4	78.3
MONTHLY BCWP	33.9	39.9	37.1	41.3	44.5							
MONTHLY ACWP	24.3	30.0	33.1	35.1	39.0							
CUMULATIVE BCWS	198.2	241.1	267.7	313.7	358.4	411.9	478.3	532.7	581.5	645.4	707.8	786.1
CTD BCWP	190.8	230.7	267.8	309.0	353.6							
CTD ACWP	150.0	179.9	213.1	248.2	287.2							

## Performance Analysis – February

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

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - PFP D&D	7.5	7.4	7.1	(0.1)	0.4
RL-0013 - MLLW Treatment	3.6	4.7	3.5	1.1	1.2
RL-0013 - TRU Waste	7.8	5.2	6.1	(2.6)	(0.8)
RL-0030 - Soil and Groundwater	8.9	7.2	8.9	(1.7)	(1.7)
RL-0040 - U Plant/Other D&D	6.6	8.5	6.8	1.9	1.7
RL-0040 - Outer Zone D&D	1.6	1.8	1.5	0.2	0.3
RL-0041 - 100K Area Remediation	8.7	9.7	5.2	1.0	4.5
<b>Subtotal</b>	<b>44.7</b>	<b>44.5</b>	<b>39.0</b>	<b>(0.2)</b>	<b>5.5</b>
<b>Fee</b>			<b>2.6</b>		
<b>Total</b>			<b>41.6</b>		

### ARRA

The Current Month unfavorable Schedule Variance (-\$0.2M/-0.4%) reflects:

- The RL-0030 negative variance (-\$1.7M) is within reporting thresholds. The primary contributors to the negative variance that exceed reporting thresholds are as follows:
  - 200-ZP-1 Operable Unit (-\$1.3M) Delays in vendor fabrication of long lead process equipment. Those currently behind are the Aeration/Microfiltration system, the Air Stripper System, and the Ion Exchange System due to resources being focused on higher priorities. The engineering design team has been focused on the completion of the 90% design, resulting in delays to engineering review of submittals. In addition, road crossings construction is progressing slower than originally planned due to excavation permitting taking longer than anticipated. Contractor mobilization for construction of the transfer buildings also reflects a slight delay due to on-going design changes resulting from changes in tanks sizes. Analysis is on going to determine the impact of delayed vendor fabrication progress and equipment delivery times to the overall construction schedule.
  - Well Drilling (-\$0.5M) Delays in initiating drilling for the 200 ZP-1, KR-4, and HR-3 well drilling campaigns. The delays are due to subcontractor contract award issues for 200 ZP-1 as well as waiting for the KR-4 and HR-3 Operable Units to complete well staking. It is anticipated that the negative schedule variance should be recovered by May.
- The RL-0013 negative variance (-\$1.5M) is due to the following subprojects:
  - RL-0013 MLLW Treatment – Delay in delivery of ERDF transport trucks caused by procurement and manufacturer production issues, partially offset by early completion of ERDF Maintenance Faculty and receipt of ERDF super dumps scheduled in prior months; and, by early shipment and disposal of MLLW to treatment facilities.

- RL-0013 TRU Waste – Primarily due to suspension of retrieval activities due to upset conditions, coupled with delays in Next Generation Retrieval start up activities, procurement, and document preparation.
- The RL-0011 negative variance (-\$0.1M) is within reporting threshold.
- The RL-0040 U Plant/Other D&D positive variance (+\$2.1M) is due to a D4 1200 Excavator (capital equipment) originally scheduled for delivery in January was not received until February (+\$1.5M). In addition, the 209E Project has a \$0.3M positive variance due to the implementation of BCR-R40-10-003R0 this month. The BCR removed funds for the purchase of standard waste boxes (SWBs) and a point adjustment was made. The U Canyon Project recalculated the method of performance on clearing the canyon deck workscope; the result was a positive variance of \$0.3M.
- The RL-0041 positive variance (+\$1.0M) reflects the following:
  - (+\$0.0M) in the 100K Area Project (Facilities and Others) is due to a) 105KE Reactor Disposition decontamination activities starting early, b) K West Deactivation where smaller debris has been removed; Larger debris units (including some requiring size reduction) will be removed in the upcoming months, c) offset by utilities reroutes where several small contracts slipped.
  - (+\$1.0M) in Waste Sites is due to a) 100-K-42 reconciling the excavated amounts to the engineered design volumes waste loaded out, and b) work was initiated earlier than scheduled and progressed faster than scheduled on 100-K-53 and 100-K-3.

The Current Month favorable Cost Variance (+\$5.5M/+12.3%) reflects:

- The RL-0041 positive variance (+\$4.5M) reflects the following:
  - 100K Area Project (Facilities and Others) (+\$4.0M) variance reflects the following: a) Facilities (+\$3.2M) achieving efficiencies of scale as groups, instead of individual facilities, are being demolished concurrently, b) K West Deactivation (+\$0.7M), c) 100K Utilities (+\$0.4M) where the water treatment building procurement performance was overstated in January but is expected to attain that design/procurement performance in May and June, with no long-term impact anticipated, d) offset by an unfavorable variance in 105KE Reactor (-\$0.3M).
  - Waste Sites (+\$0.5M) variance is primarily due to reconciling excavated volumes against the design criteria to give a better cumulative value.
- The RL-0040 positive variance (+\$2.0M) reflects variances in the following subprojects:
  - ARRA RL-0040 U Plant/Other D&D variance (+\$1.7M) is due to the following factors: a) U Ancillary Project overrun of (-\$0.5M) is due to using more resources than planned to recover schedule and inefficiencies related to delays from respirator operation issues and new scaffolding requirements, b) efficiencies with U Canyon Project (+\$0.4M), c) capital equipment costs lower than budgeted (+\$0.4M), d) offset by (+\$1.2M) with efficiencies gained with the ALE Project (D4) due to the lack of asbestos abatement required, and e) G&A adders overrun by (-\$0.1M).
  - ARRA RL-0040 Outer Zone D&D waste sites variance (+\$0.3M) is primarily related to lagging ERDF costs. The February billing represented 14,305 tons, but the shipping logs indicated 18,906 tons were shipped.
- The RL-0011 positive variance (+\$0.4M) is primarily due to the efficiencies recognized in glovebox hood removal, and decontamination efforts in the 234-5Z Analytical Labs. In addition, transfer of the 242Z and 2736Z/ZB work scope from Base to ARRA funding is also contributing to this positive variance. Direction to make this transfer was received at the end of February and costs for the work performed were collected in the Base funded accounts. Cost corrections are being processed and will be recognized in the March reporting period. This is partially offset by efforts to support removal of legacy combustible waste diverting resources that would normally be performing

glovebox decontamination and removal efforts. Also contributing to the offset is accruals for the procurement of the chiller not being processed during the month of February. The combustible waste removal effort has been completed enabling the resources that were diverted to support the effort to focus on their normal D&D work activities. Special attention will be made to ensure that accruals are processed for the procurement of the Chillers in the month of March.

- The RL-0013 positive variance (+\$0.4M) is due to the following subprojects:
  - RL-0013 MLLW Treatment – Additional capabilities Maintenance Facility delay in subcontract invoicing and super dump/transport trucks received below planned cost; costs for 435.1 waste treatment 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).
  - RL-0013 TRU Waste – Negative variance primarily associated with continuing to incur costs without making TRU Retrieval progress due to upset conditions, and increased G&A/DD associated with Recovery Act expenditures; partially offset by TRU Disposition costs understated due to miscoding of charges (corrections in process).
- The primary contributors to the RL-0030 negative variance (-\$1.7M) that exceed reporting thresholds are as follows:
  - 100 HR-3 Operable Unit (-\$0.9M) variance is due to the following: G&A cost were overstated, as the costs were entered twice. The error was not discovered until after final cost had been finalized. The G&A accrual will be corrected in March with no CTD impact. Also, construction labor cost is overrunning for the DX pump and treat facility and cost for installation of equipment inside the process/transfer facility. The labor overruns will be absorbed by the CTD positive cost variance with no negative impact.
  - 200-ZP-1 Operable Unit (-\$0.6M) variance is primarily due to the following factors: a) 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, FBR skid changes, etc.; b) 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 c) 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.
  - Ramp-up and Transition (-\$0.4M) variance is primarily due to procurement and installation of mobile offices and project staffing charges that were incorrectly charged in January to trailer mobilization rather than construction. A portion of these charges were corrected in February resulting in the current month overrun. No significant variance is anticipated at completion for this account.

## Base Performance by PBS (\$M)

	Current Period				
	Budgeted Cost		Actual Cost ACWP	Variance	
	BCWS	BCWP		Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	3.8	3.3	3.5	(0.5)	(0.3)
RL-0012 - SNF Stabilization & Disp	5.6	4.6	5.3	(1.0)	(0.6)
RL-0013 - Solid Waste Stab & Disp	7.0	7.8	8.3	0.8	(0.5)
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	10.5	9.2	10.3	(1.3)	(1.1)
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	1.2	1.3	1.2	0.0	0.1
RL-0041 - Nuc Fac D&D - RC Closure Proj	0.8	0.9	0.6	0.1	0.3
RL-0042 - Nuc Fac D&D - FFTF Proj	0.1	0.1	0.1	0.0	(0.0)
<b>Subtotal</b>	<b>29.0</b>	<b>27.2</b>	<b>29.3</b>	<b>(1.8)</b>	<b>(2.2)</b>
<b>Fee</b>			<b>1.4</b>		
<b>Total</b>			<b>30.8</b>		

**Base**

The Current Month unfavorable Schedule Variance (-\$1.8M/-6.3%) reflects:

- The primary contributors to the RL-0030 negative variance (-\$1.3M) are as follows:
  - Regulatory Decision/Closure (-\$0.4M) due to the following delays: 1) Start of excavation at 216-S-19 waste site as a result of need to take additional sampling to ensure that the area is not a Hazardous Category 3 area. This delay will result in a day for day slip in the completion of the sampling process; resources will be assigned to other site remediation work scope to minimize non-productive cost. The hazard category evaluation has been prepared and issued. The CHPRC assessment determined that the site is less than hazard category 3. This determination requires RL review and approval. 2) Characterization of the Gable Pond pipeline and CW-1 Ponds in the Outer Area work scope. The field characterization was originally planned to occur in January, but based coordination with the outer area field work, will now occur in March. These negative schedule variances were partially offset by a positive schedule variance in the Semi-works Zone as less contamination was encountered, resulting in a significant decrease in the effort to drill and obtain the samples.
- The RL-0012 negative variance (-\$1.0M) is primarily due to the following:
  - The STP variance (-\$1.0M) is due to: a) Setter Tank Retrieval design and installation activities completing early, and BCWS now catching up, along with a change in plans on how to train operations personnel on the sampling of that material has caused a slip in schedule (-\$0.2M); b) MASF pool subcontractor had difficulty removing the slabs and fell behind schedule (-\$0.1M); c) several subcontracts for ECRTS were not awarded as planned (-\$0.4M); and d) project decisions to not use nitrite in the KOP disposition and to evaluate all system upgrades for KOP processing have slipped these activities (-\$0.3M). Recovery plans include: a) training on settler sampling should occur closer to actual sampling for proficiency; b) overtime was approved for MASF pool implementation to recover schedule; c) subcontracts are scheduled for award by

March 15; and d) a BCR has been generated to move nitrite activity to ECRTS Phase 2 scope and other KOP procurements are in process.

- The RL-0013 negative variance (-\$0.8M) is due to the following subprojects:
  - RL-0013 MLLW Treatment – Delay in delivery of ERDF transport trucks caused by procurement and manufacturer production issues partially offset by early shipment and disposal of MLLW to treatment facilities.
  - RL-0013 TRU Waste – Primarily due to delayed Next Generation Retrieval procurement, start up activities, and document preparation, coupled with the suspension of retrieval activities due to unknown item in burial grounds and upset conditions.
- The RL-0011 negative variance (-\$0.5M) is associated with work scope to correct the wiring on the crane, and the required crane adjustments that were identified during the function testing and training of personnel on the operation of the crane. Eight more crane entries are anticipated to correct the wiring on the crane. Due to the adjustments, beneficial use of the crane is limited to training and canyon floor cleanup. The crane adjustment work scope has delayed the initiation of cleaning of the canyon floor and non-destructive assay (NDA) of the pencil tanks. Also contributing to this variance is assignment of two PRF D&D teams used to supplement the canyon crane crews for canyon entries and waste seal outs in support of the new combustible waste program, impacting work on the gallery glovebox equipment removal and removal of the pH and Pulser gloveboxes. In addition, until an evaluation for manual size reduction of the pencil tanks is completed, the procurement of the BROKK (remote size reduction handling system) has been put on hold. The schedule variance associated with the procurement of the BROKK will continue pending the completion of the evaluation of the manual size reduction approach (~June 2010).
- The RL-0040, RL-0041 and RL-0042 variances (+\$0.1M) are within reporting thresholds.

The Current Month unfavorable Cost Variance (-\$2.2M/-7.9%) reflects:

- The primary contributors to the RL-0030 negative variance (-\$1.1M) are as follows:
  - PBS RL-30 UBS, G&A, and DD (-\$1.0M) result of a point adjustment to correct an error in the monthly phasing for implementation of PRC-10-011 "PRC Baseline Revision 2". BCRA-PRC-10-023RO General Administrative Changes for February 2010 corrected the January 2010 overstatement of BCWS. Variance in each PBS may be higher or lower than the composite variance as a result of the PRC accounting practice of distributing cost based on the Project's actual cost instead of the accounting practice of planning the BCWS distribution based on the Project's BCWS by each PBS.
- The RL-0012 negative variance (-\$0.7M) is primarily due to a point adjustment to correct an error in the monthly phasing for implementation of PRC-10-011 "PRC Baseline Revision 2".
- The RL-0013 negative variance (-\$0.5M) is due to the following subprojects:
  - RL-13 MLLW Treatment – Additional capabilities Maintenance Facility delay in subcontract invoicing and super dump/transport trucks received below planned cost; costs for 435.1 waste treatment 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).
  - RL-13 TRU Waste – Negative variance primarily associated with continuing to incur costs without making TRU Retrieval progress due to upset conditions, and increased G&A/DD associated with Recovery Act expenditures; partially offset by TRU Disposition costs understated due to miscoding of charges (corrections in process).

- The RL-0011 negative variance (-\$0.3M) is a result of cost corrections in the base funded Modifications project management account to support work on the PRF Waste elevator, South Canyon Airlock Modifications and installation of the doors in the 2736Z/ZB facility. Also contributing to this variance is the transfer of the 242Z and 2736Z/ZB work scope from Base to ARRA funding. Direction to make this transfer was received at the end of February and costs for the work performed were collected in the Base funded accounts. Cost corrections are being processed and will be recognized in the March reporting period. This is partially offset by efficiencies recognized in the Maintain safe and Compliant PFP control account by reassigning resources to support D&D work scope.
- The RL-0040, RL-0041 and RL-0042 variances (+\$0.3M) 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	80.8	81.0	70.3	0.2	10.7	290.0	275.1	14.8
RL-0013 - MLLW Treatment	23.3	23.5	19.0	0.2	4.4	50.5	47.3	3.2
RL-0013 - TRU Waste	53.5	48.8	48.7	(4.7)	0.1	248.6	247.5	1.0
RL-0030 - Soil and Groundwater	42.5	44.9	35.8	2.3	9.1	201.9	197.1	4.7
RL-0040 - U Plant/Other D&D	82.9	81.3	64.0	(1.6)	17.2	209.7	186.7	23.0
RL-0040 - Outer Zone D&D	15.3	13.9	11.8	(1.4)	2.1	75.0	81.1	(6.2)
RL-0041 - 100K Area Remediation	60.1	60.3	37.6	0.2	22.7	223.8	175.9	47.9
<b>Subtotal</b>	<b>358.4</b>	<b>353.6</b>	<b>287.2</b>	<b>(4.8)</b>	<b>66.3</b>	<b>1,299.4</b>	<b>1,210.8</b>	<b>88.5</b>
<b>Management Reserve</b>						<b>37.0</b>		
<b>Fee</b>			<b>29.9</b>			<b>72.1</b>		
<b>Total</b>			<b>317.2</b>			<b>1,408.5</b>		

### ARRA

The CTD negative Schedule Variance (-\$4.8M/-1.3%) reflects:

- The RL-0013 negative variance (-\$4.5M) is due to the following subprojects:
  - RL-13 MLLW Treatment – Delay in delivery of ERDF transport trucks caused by procurement and manufacturer production issues partially offset by early shipment and disposal of MLLW to treatment facilities.
  - RL- 13 TRU Waste – Primarily due to delayed Next Generation Retrieval procurement, start up activities, and document preparation, coupled with the suspension of retrieval activities due to unknown item in burial grounds and upset conditions.
- The RL-0040 negative variance (-\$3.1M) reflects the variances in the following subprojects:
  - ARRA RL-0040.R1.1 U Plant/Other D&D variance (-\$1.6M) is due to: a) the late delivery of heavy equipment in the D4 capital equipment account (-\$1.1M), b) disposal path forward undecided for Cell 30 in the U Canyon (-\$0.3M), c) 200-E Administration Buildings (-\$0.6M), and d) U Ancillary Demolition (-\$0.4M) schedule delays due to asbestos abatement/respirator

issues, e) offset by the positive schedule variance due to less asbestos abatement being required for the ALE Project (+\$0.7M).

- ARRA RL-0040.R1.2 Outer Zone D&D variance (-\$1.4M) is due to: a) delays in the start of field work, project startup learning curve, availability of required equipment, and greater depth of contamination, b) BC Control Area remediation (-\$1.0M) is behind schedule due to availability of super dump trucks and the unexpected depth of the contamination, c) MG-1 waste sites (-\$0.3M) are lagging as a result of initial delays in issuance of cultural review reports and the unanticipated complexity of researching the Old Central Shop Area (OCSA) history.
- The primary contributors to the RL-0030 positive variance (+\$2.3M) are as follows:
  - 100-HR-3 Operable Unit (+\$3.8M) 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 (-\$0.9M) delays in vendor fabrication for long lead process equipment. Fabrication is currently behind on the Aeration/Microfiltration system, the Air Stripper System, and the Ion Exchange System due to resources being focused on higher priorities. The engineering design team has been focused on the completion of the 90% design, resulting in delays to engineering review of vendor submittals.
- The RL-0011 and RL-0041 variances (+\$0.4M) are within reporting thresholds.

The CTD favorable Cost Variance (+\$66.3M/+18.8%) reflects:

- The RL-0041 positive variance (+\$22.7M) is due to the following:
  - 100K Area Project (Facilities and Others) (+\$13.7M) reflects: a) Facilities (+\$8.8M) due to efficiencies of scale for concurrent demolition, b) K West deactivation (+\$3.1M) for the debris removal campaign, c) Utilities reroutes (+\$1.8M) where procurement performance was mistakenly taken in January but won't actually be achieved until May, d) 105KE Reactor Disposition (+\$1.1M) for site preparation and obstruction removal, and e) Mission Support Contractor support where services have not been used as extensively as planned, f) offset by Project Management (-\$1.1M) where general site cleanup labor has been utilized on site cleanup work scope.
  - Project Support & Services (+\$8.1M) General and Administrative achieved efficient use of assigned resources.
  - Waste Sites (+\$0.9M) 100-K-56 and the miscellaneous waste sites/pipelines have achieved efficiencies in loading/shipping tonnage.
- The RL-0040 positive variance (+\$19.3M) reflects variances in the following subprojects:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$17.2M) variance is due to: a) favorable performance (+\$3.1M) of the cold and dark teams and the sampling and characterization/ waste identification form teams (D4), b) G&A and direct distributable allocations (+\$7.3M), c) less for Program Management than planned (+\$0.4M), d) efficiencies at U-Canyon (D4) (+\$4.0M), e) less resources than planned for the lower ALE buildings (+\$2.8M) buildings, f) lower than planned costs for capital equipment (D4) (+\$2.2M), g) offset by increased material and equipment costs, h) increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$2.3M), i) coupled with increased insulator staff and overtime to recover schedule and j) higher MSA (-\$1.3M) costs for Fleet/Training, etc.
  - ARRA RL-0040.R1.2 Outer Zone D&D (+\$2.1M) variance is primarily due to the waste sites area efficiencies (+\$2.4M) in mobilization gained by changing to direct haul to ERDF, which reduced costs and environmental impacts associated with construction of a container transfer

area, and aerial surveying performed on the B Zone resulted in 18 percent of the area being found to be potentially “clean” and requiring limited survey activities. Lower model costs have been realized due to the non-complex nature of the waste sites addressed to date. 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.

- The RL-0011 positive variance (+\$10.7M) is due to: a) (~\$4.4M) overhead allocations as discussed in Appendix C, b) procurement of waste containers and metal pallets material/equipment to support the Solid Waste ready-to-serve mode, c) delay in receiving costs associated with waste disposition, d) under-runs caused by late hiring of ARRA funded staff, e) efficiencies recognized by brokering cross-cutting craft resources to other CHPRC projects, f) efficiencies being recognized during the asbestos removal campaign, and g) delayed subcontract costs associated with demolition dispersion and air modeling are also contributing to this cost variance (+\$7.3M), h) partially offset by accruals for the procurement of the chiller not being processed during the month of February, reallocation of resources to support removal of legacy combustible waste that would normally be performing glovebox decontamination and removal efforts, and i) utilization of overtime to maintain schedule in the 234-5Z Laboratory accounts. A BCR to transfer work scope associated with the 242Z, 2736Z/ZB, and Balance of 234-5Z projects to ARRA was processed in February. Transfer of this work scope is expected to off-set the projected cost under-run. Special attention will be made to ensure that accruals are processed for the procurement of the Chillers in the month of March.
- The primary contributors to the RL-0030 positive variance (+\$9.1M) are as follows:
  - 100-HR-3 Operable Unit (+\$2.0M) efficiencies experienced during installation of HDPE piping and road crossings.
  - Regulatory Decision & Closure Integration (+\$1.9M) 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.
  - Ramp-up and Transition (+\$1.9M) due to procurement and installation of mobile offices and project staffing charges that were incorrectly charge to trailer mobilization rather than construction. These charges were partially corrected in February with more corrections to follow. Additionally, accruals for the construction contractor for the 4 shop buildings are understated and the contractor is performing the work below the baseline estimate. No significant variance is anticipated at completion for this account.
  - PBS RL-30 UBS, G&A, and DD (+\$1.8M) overhead allocations as discussed in Appendix C.
  - Drilling (+\$1.7M) 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.
- The RL-0013 positive variance (+\$4.5M) reflects the following subproject variances:
  - RL-13 MLLW Treatment – Costs for waste treatment 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).
  - RL-13 TRU Waste – TRU Retrieval - Experiencing efficiencies in TRU Repackaging, TRU facility operations; partially offset by continuing to incur costs without making TRU Retrieval progress; also experiencing increased allocations associated with Project Services and Office Space as a result of increased Recovery Act expenditures.

## Base Performance by PBS (\$M)

	Contract to Date					Contract Period		
	Budgeted Cost		Actual Cost	Variance				
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC	Variance
RL-0011 - Nuclear Mat Stab & Disp PFP	95.7	95.0	94.1	(0.7)	0.9	339.6	342.9	(3.3)
RL-0012 - SNF Stabilization & Disp	125.2	124.2	125.5	(1.0)	(1.2)	576.9	577.9	(0.9)
RL-0013 - Solid Waste Stab & Disp	184.5	181.6	177.4	(2.9)	4.2	1,568.3	1,558.4	9.9
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	171.5	170.4	159.3	(1.1)	11.1	1,202.9	1,193.2	9.7
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	39.7	38.2	33.1	(1.5)	5.1	971.1	963.1	8.0
RL-0041 - Nuc Fac D&D - RC Closure Proj	13.0	13.3	11.6	0.3	1.6	335.6	374.3	(38.7)
RL-0042 - Nuc Fac D&D - FFTF Proj	9.1	9.1	8.6	0.0	0.5	25.0	24.4	0.6
<b>Subtotal</b>	<b>638.8</b>	<b>631.9</b>	<b>609.6</b>	<b>(7.0)</b>	<b>22.2</b>	<b>5,019.4</b>	<b>5,034.0</b>	<b>(14.7)</b>
<b>Management Reserve</b>						<b>173.8</b>		
<b>Fee</b>			<b>30.4</b>			<b>231.9</b>		
<b>Total</b>			<b>640.0</b>			<b>5,425.1</b>		

**Base**

The CTD unfavorable Schedule Variance (-\$7.0M/-1.1%) reflects:

- The RL-0013 negative variance (-\$2.9M) is due to the delay in Next Generation TRU Retrieval procurements and long term box storage remediation; delay in WESF roof upgrade pending weather improvements; and delays in receipt of W-5 waste returns from PermaFix Northwest to the Mixed Waste Disposal Trenches due to higher priority scope.
- The RL-0040 negative variance (-\$1.5M) is due to the delayed start of the Cell 30 design (D4).
- The RL-0011 negative variance (-\$0.7M) is associated with work in the 236Z (PRF) facility. Electrical issues on the PRF canyon crane identified during reactivation entries have led to more entries than originally planned. In addition, wiring corrections on the crane and crane adjustments identified during the functional testing are also contributing to this delay. Crane adjustments have contributed to the delay of the canyon floor cleanup and NDA of the pencil tanks. Assignment of two PRF D&D teams used to supplement the canyon crane crews for canyon entries and waste seal outs in support of the new combustible waste program, impacting work on the gallery glovebox equipment removal and removal of the pH and Pulser gloveboxes is also contributing to this variance. In addition, until an evaluation for manual size reduction of the pencil tanks is completed, the procurement of the BROKK (remote handling system) has been put on hold. The schedule variance associated with the procurement of the BROKK will continue pending the completion of the evaluation of the manual size reduction approach (~May 30, 2010). A BCR will be developed and implemented after the evaluation of the manual size reduction effort for the pencil tanks has been completed (~June 2010).
- The RL-0012, RL-0030, RL-0041 and RL-0042 variances (-\$0.8M) are within reporting thresholds.

The CTD favorable Cost Variance (+\$22.2M/+3.5%) reflects:

- Primary contributors to the RL-0030 positive variance (+\$11.1M) that exceed reporting thresholds are as follows:
  - 100-KR-4 OU (+\$1.8M) efficiencies obtained with the KR-4 Operations and Maintenance accounts, which are expected to continue throughout the fiscal year.
  - 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.
  - 100-NR-2 OU (+\$1.5M) 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 (+\$1.5M) resulted from 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, and 4) Efficiencies to-date pertaining to design/construction of the 200W Area P&T, primarily in the areas of Remedial Design/Remedial Action Work Plan preparation, construction of the Aquifer Test System as well as Aquifer Testing and Balance of Plant design preparation. This positive cost variance is expected to be available for funds management within other areas of the project.
  - 100-HR-3 Operable Unit (+\$1.0M) efficiencies experienced within: HR-3 pump and treat activities, development of in-situ bioremediation and sub-grade bioreactor treatability test plans, and development and planning of remedial investigation/feasibility study field work. These underruns are expected to remain.
- The RL-0040 positive variance (+\$5.1M) is associated with:
  - The favorable cost variance is associated with recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials; surveillance and maintenance costs (D4) (+\$0.8M) less than expected; completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$0.5M), capital equipment (+\$0.6M), Usage Base Services (+\$0.2M) and under-run in G&A and direct distributable allocations (+\$1.0M).
  - The favorable cost variance for Waste Sites (+\$0.5M) is due to less extensive regulatory support labor required for the U Zone agreement in principal.
- The RL-0013 positive variance (+\$4.2M) are attributable to Mixed Low Level Waste Treatment efficiencies (disposal vs. offsite treatment), TRU repackaging activities completed with less resources than planned, a FY09 reduction in labor rates, reduced labor requirements in Liquid Effluent Facilities (LEF), and Slightly Irradiated Fuel Preparations recognized project /contract efficiencies allowing completion under budget; partially offset by continued use of MSC support services above plan.
- The RL-0041 positive variance (+\$1.7M) reflects the following:
  - 100K Area Project (Facilities and Others) (+\$2.2M) due to a) 105KE Reactor Core Removal (+\$2.9M) work efficiency on deactivation/decontamination and enabling documents, b) Focused Feasibility Study (+\$0.2M) where the work has stopped while a different path forward is

- explored, c) offset by Facilities (-\$0.5M) where the 1706KE/KEL/KER complex above-grade demolition required more resources due to its complexity and d) Mission Support Contractor support (-\$0.4M) where services have been used more extensively as planned.
- Waste Sites (-\$0.5M) subcontractor was brought on-site but utilization was delayed pending construction of a temporary container transfer area and completion of 1706KE/KEL/ KER demolition/decontamination.
  - The RL-0011 positive variance (+\$0.9M) is a result of efficiencies recognized due to completion of the SNM De-Inventory work effort earlier than planned, recognized efficiencies to support the maintenance and operation of the PFP facility in a safe and compliant manner. In addition, Maintain PFP Safe and Compliant work scope due to reassignment of resources to support D&D efforts (i.e., Laundry, mask station, plastic shop etc.), and delayed procurement of the BROKK (PRF remote handling size reduction equipment) are also contributing to this variance. Partially offset by transfer of the 242Z and 2736Z/ZB work scope from Base to ARRA. Direction to make the transfer was received at the end of February and costs for the work performed were collected in the Base funded accounts. In addition, crane and rigging costs associated with the disposition of the un-Irradiated and slightly irradiated fuel, extra entries being made to reactivate the PRF canyon crane as higher electrical deficiencies were found, the use of overtime to recover schedule for the west gallery glovebox cleanout, are contributing to this variance. Cost corrections for the February charges from 2736Z/ZB and 242Z will be processed during the month of March. The project is continuing to evaluate alternative methods and identify efficiencies associated with the execution of the PRF, and Min-Safe work scope. With these efficiencies, early demolition of select Phase I ancillary facilities will be planned and executed.
  - The RL-0012 and RL-0042 variances (-\$0.8M) are within reporting thresholds.

## FUNDING ANALYSIS

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

PBS	Project	FY 2010		Variance
		Baseline Funding	Spending Forecast	
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	121.7	111.3	10.4
<b>RL-0013</b>	Waste and Fuels Management Project	153.5	132.5	21.0
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	142.9	113.8	29.1
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	144.1	123.9	20.3
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	121.5	93.8	27.7
<b>Total ARRA:</b>		<b>683.7</b>	<b>575.3</b>	<b>108.5</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	57.1	55.8	1.3
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	86.8	80.2	6.6
<b>RL-0013</b>	Waste and Fuels Management Project	108.7	97.9	10.7
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	177.4	152.4	25.1
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	25.4	16.7	8.6
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	20.9	32.7	(11.8)
<b>RL-0042</b>	Fast Flux Test Facility Closure	1.7	1.2	0.5
<b>Total Base:</b>		<b>477.8</b>	<b>436.9</b>	<b>41.0</b>
<b>Combined ARRA/Base Total:</b>		<b>1,161.6</b>	<b>1,012.1</b>	<b>149.4</b>

BCR-PRC-10-024 will be processed in April to move the 183.2KW Sedimentation Basin/183.3KW Filter Basin/183.7KW Tunnel from ARRA to Base funding. The spending forecast reflects this move.

## BASELINE CHANGE REQUESTS

In February 2010, CHPRC approved and implemented seven (7) baseline change requests, of which three (3) are administrative in nature and did not change budget, schedule or scope. The remaining four (4) change requests are briefly summarized in the table below:

BCR Number	Title	Description
BCR-012-10-003R0	Engineered Container Retrieval, Transfer & Storage – CD-2/3Estimate	Revises the estimates for the Preliminary and Final Design for the Engineered Container Retrieval, Transportation System (ECRTS) per DOE Order 413.3A into detailed estimates. The life cycle performance measurement baseline (PMB) budget is increased \$5.1M using reserve funds from PBS RL-0012.
BCR-012-10-004R0	Develop the F&Rs and SOW for a Conceptual Design RFP	Provides the first phase of a conceptual design report for an Alternate Interim Storage location to T-Plant to store sludge. The first phase consists of a subcontract to develop the Functions & Requirements (F&R) and Statement of Work (SOW) so that a Request for Proposal (RFP) can be developed. The life cycle PMB budget is increased \$40K. No additional funds are required.
BCR-PRC-10-021R0	Transfer PFP D&D Work Scope from Base to ARRA	As directed by RL in contract modification 091, scope for the demolition and disposition activities on the 2736-Z/ZB Complex, 242-Z and balance of 234-5Z facilities is transferred from Base to ARRA for the period of these activities through September 30, 2011. No additional funds are required and there is no change to the life cycle PMB budget.
BCR-R40-10-003R0	Procure SWBs to support 209E Facility Hazard Reduction	As directed by RL through Attachment J.3 and corresponding memorandum of agreement between CHPRC and Washington TRU Solutions, scope for the procurement of Standard Waste Boxes is transferred from CHPRC to Washington TRU Solutions. The life cycle PMB budget is reduced \$136K.

Overall for February 2010 the life cycle PMB budget is increased \$5.0M and there was no change to or utilization of management reserve. 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 March 2010 will be to support RL in review of the PRC Baseline, Revision 2, 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 Contract Price as a result change requests processed in February 2010 is summarized by fiscal year in the tables below (negative number represents reduction):

**February 2010 Summary of Changes to Contract Price**

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014 - 2018
<b>January 2010 Contract Price</b>						
PMB	653,426	1,008,508	943,503	768,968	4,021,296	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>1,084,980</b>	<b>1,026,838</b>	<b>839,545</b>	<b>4,356,443</b>	<b>2,472,153</b>
<b>Change by Funding Source to Contract Price in February 2010 (7 BCRs)</b>						
<b>PMB</b>						
<b>ARRA</b>						
All ARRA WBSs	0.0	5,810.6	30,378.4	0.0	36,189.0	0.0
<b>Base</b>						
All Base WBSs	0	-3,144	-30,237	783	-31,152	0
<b>Change to PMB</b>	<b>0</b>	<b>2,666</b>	<b>142</b>	<b>783</b>	<b>5,037</b>	<b>0</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>2,666</b>	<b>142</b>	<b>783</b>	<b>5,037</b>	<b>0</b>
<b>February 2010 Contract Price</b>						
PMB	653,426	1,011,174	943,645	769,752	4,026,332	2,292,423
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>

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

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
<b>Management Reserve (MR) - End of January 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 February 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 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>	

## 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 3/2/10								Planned Subcontracting*	\$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	\$968,751,920
Reporting Classification	ARRA		Non-ARRA		Total (\$)	Percent of Total	Goal (%)	Balance Remaining to Award =	\$1,555,731,275
	(\$)	%	(\$)	%				Goal Award (\$)	Bal. to Goal (\$)
SB	\$199,898,200	61.03%	\$288,526,304	45.00%	\$488,424,504	50.42%	49.30%	\$1,244,570,215	\$756,145,711
SDB	\$41,865,870	12.78%	\$46,565,785	7.26%	\$88,431,655	9.13%	8.20%	\$207,007,622	\$118,575,967
SWOB	\$43,851,230	13.39%	\$57,192,734	8.92%	\$101,043,964	10.43%	6.50%	\$164,091,408	\$63,047,444
HUB	\$3,458,127	1.06%	\$9,663,181	1.51%	\$13,121,308	1.35%	3.20%	\$80,783,462	\$67,662,154
VOSB	\$34,932,149	10.67%	\$19,901,029	3.10%	\$54,833,178	5.66%	2.00%	\$50,489,664	(\$4,343,514)
SDVO	\$2,504,129	0.76%	\$3,400,320	0.53%	\$5,904,449	0.61%	2.00%	\$50,489,664	\$44,585,215
NAB	\$2,340,942	0.71%	\$3,590,945	0.56%	\$5,931,887	0.61%	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: \$488,424,504 Balance to Requirement: \$297,386,731	
Large	\$78,032,642	23.82%	\$228,525,861	35.64%	\$306,558,503	31.64%	0.00%		
GOVT	\$11,259	0.00%	\$652,375	0.10%	\$663,634	0.07%	0.00%		
GOVT CONT	\$49,568,219	15.13%	\$122,117,875	19.04%	\$171,686,094	17.72%	0.00%		
EDUC	\$25	0.00%	\$19,675	0.00%	\$19,700	0.00%	0.00%		
NONPROFIT	\$23,058	0.01%	\$1,309,048	0.20%	\$1,332,106	0.14%	0.00%		
FOREIGN	\$5,103	0.00%	\$62,276	0.01%	\$67,379	0.01%	0.00%		
Total	\$327,538,506		\$641,213,414		\$968,751,920				

**Notes:**

1. Performance in FY 2010 continues to exceed goals in the Small Business, Disadvantaged Business, Woman Owned and Veteran Owned categories. As a result, contract-to-date percentages in those categories continue to exceed the full-term contract goals.
2. Over 33% of awards have been made to small businesses with over 61% of ARRA awards to small businesses.
3. Over 94% 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.
4. This report excludes blanket contract values which are only estimates and not used for payment obligations.
5. Data is summarized by business categories (WMBE codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

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

Contract Section	Project	GFS/I	Status
<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