CH2MHILL
Plateau Remediation Company

Monthly Performance Report

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President and Chief
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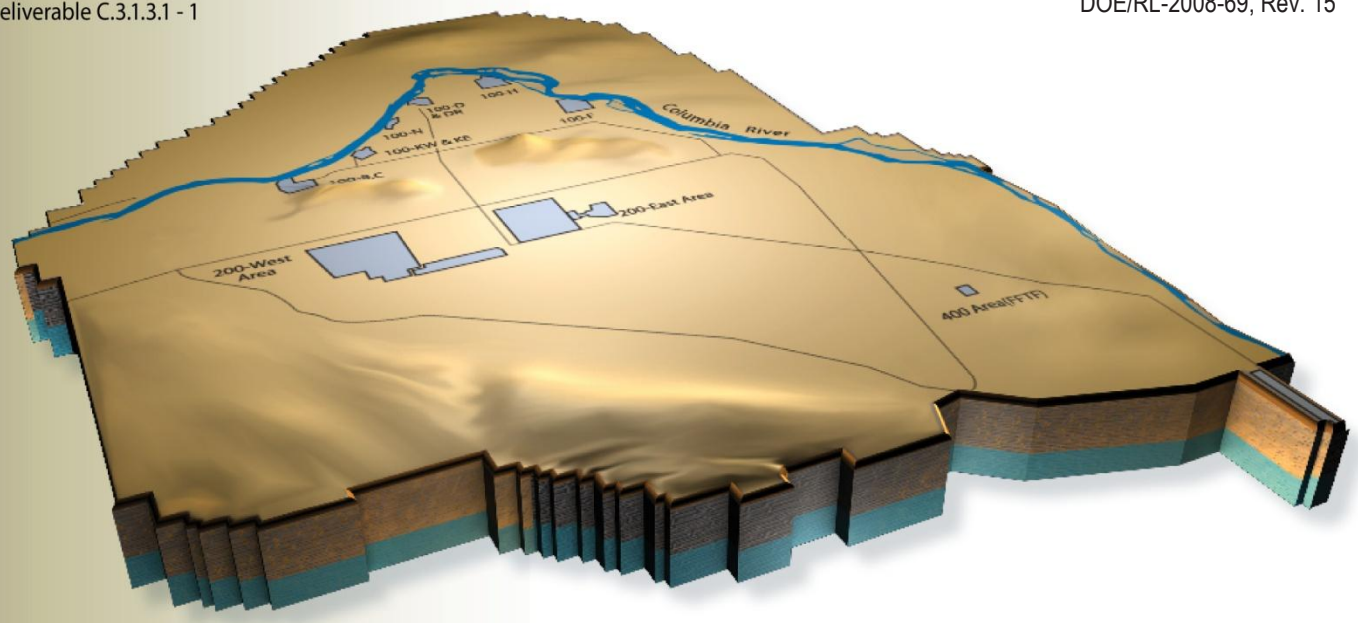

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EXECUTIVE SUMMARY

Focus on Safety

Dan Cartmell, Vice President of Business Services and Project Controls, speaks at the Voluntary Protection Program self assessment

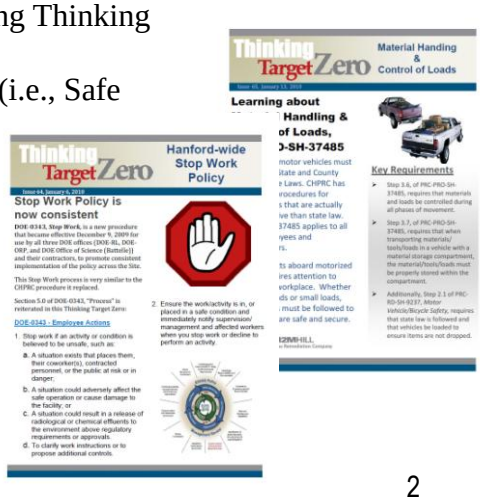
From January 11-21, a 14-person team conducted an assessment of CHPRC's Voluntary Protection Program (VPP). The team interviewed employees in the field and observed employees in the functional groups and projects. The team cited the Hazard Review Board, Integrated Safety Management System/ Environmental Management System (ISMS/EMS) "Flippy" book, and the "Do Work Safely" orientation for newly hired workers as exemplary tools that could enhance other VPP programs. These good practices, as well as areas for improvement noted during the assessment, will be detailed in a report being prepared by the assessment team.

CHPRC plans to apply for VPP STAR status following the DOE Integrated Safety Management System /Environmental Management System (ISMS/EMS) Phase II verification, and is targeting completion of DOE's review of our STAR application this summer.

CHPRC completed the implementation of the ISMS/EMS program and notified DOE of readiness for verification of implementation of ISMS/EMS Description, required by January 31. To achieve implementation, CHPRC:

- Created, modified, endorsed, or cancelled over 600 documents.
- Developed a "Safety Leadership Workshop" and trained 840 CHPRC leaders.
- Developed All Hands ISMS/EMS computer based training and trained 3,760 managers, supervisors, workers, and subcontractors.
- Developed "Do Work Safely" training for ARRA workers and trained 823 workers.
- Developed enhanced Buyer's Technical Representative (BTR) training and trained 170 BTRs.
- Developed enhanced qualification for work release authority and qualified 119 CHPRC personnel.
- Performed over 30 ISMS/EMS assessments and closed 159 ISMS/EMS implementing condition reports.

The revised ISMS/EMS internal web site was launched on January 21. The site now serves as an ISMS/EMS hub that offers user-friendly safety tools and links including Thinking Target Zero Bulletins as well as information about safety committees, environmental objectives, and other safety publications and programs (i.e., Safe Zone and WOW).



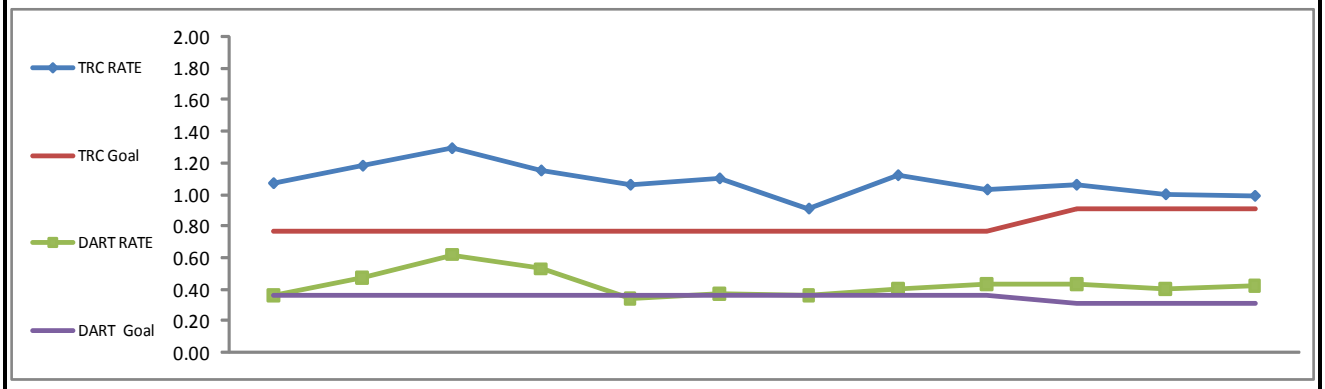
Safety-related publications issued in January included weekly *Thinking Target Zeros* as well as features in *On the Plateau* about the VPP assessment, Safe Zone yard awards, and EMS objectives. Safety was a primary focus at the All Hands meeting held January 27, and the event featured a discussion of safety statistics as well as a video about radiological controls.

TARGET ZERO PERFORMANCE

January 2010

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

Total Recordable/DART Case Rates

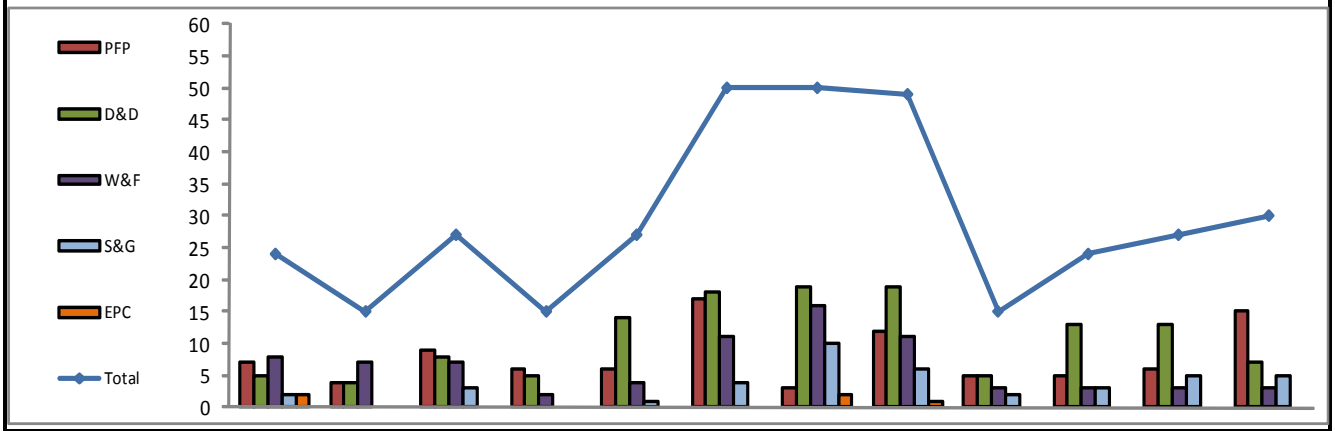


Project	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10
PFP	0	2	0	0	1	0	0	2	0	0	0	0
D&D	1	2	0	1	2	1	2	0	1	2	0	1
W&F	1	0	0	0	0	2	0	0	0	0	1	0
S&G	0	0	0	0	0	0	0	1	1	0	0	0
EPC	0	0	0	0	1	0	0	0	0	1	0	0
TRC RATE	**1.07**	**1.18**	**1.29**	**1.15**	**1.06**	**1.1**	**0.91**	**1.12**	**1.03**	**1.06**	**1.00**	**0.99**
DART RATE	**0.36**	**0.47**	**0.62**	**0.53**	**0.34**	**0.37**	**0.36**	**0.40**	**0.43**	**0.43**	**0.40**	**0.42**

Total Recordable Injury Case (TRC) Rate – The 12 month rolling average TRC rate of 0.99 is based upon a total of 26 recordable injuries. One recordable injury occurred in January due to a water hose dropping onto a worker's foot resulting in a hairline fracture. Seven cases are under review requiring additional information. TRC rate performance continues in the green range.

Days Away, Restricted or Transferred (DART) Workdays Case Rate – The 12 month rolling average DART rate of 0.42 is based upon a total of 11 cases. DART rate performance continues in the green range.

First Aid Cases



Projects	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10
PFP	7	4	9	6	6	17	3	12	5	5	6	15
D&D	5	4	8	5	14	18	19	19	5	13	13	7
W&F	8	7	7	2	4	11	16	11	3	3	3	3
S&G	2	0	3	0	1	4	10	6	2	3	5	5
EPC	2	0	0	0	0	0	2	1	0	0	0	0
Total	**24**	**15**	**27**	**15**	**27**	**50**	**50**	**49**	**15**	**24**	**27**	**30**

First Aid Case Summary – Thirty first aid cases were reported in January. Accident cause and types were well distributed, with no potential trend in any one area. Individual project data will continue to be evaluated on a monthly basis.

PROGRAM SUMMARIES

Safety, Health, Security, and Quality

The monthly President's Zero Accident Council (PZAC) meeting was held on January 20, 2010. Safety, Health, Security, and Quality (SHS&Q) sponsored the meeting. Main themes for the meeting centered on health and wellness services available through the Site medical contractor, participation in the daily stretch-and-flex programs, SafeZone Participation, and progress relating to the CHPRC Voluntary Protection Program (VPP) self-assessment activities.

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

- Four *Thinking Target Zero*: Spill Response, EMS Targets and Objectives, Material Handling and Control of Loads, and Hanford-wide Stop Work Policy. One special safety bulletin: Failed Thermostat on Heater, and lessons learned information on the topics of scaffolding, crane maintenance, and electrical safety for the Quarterly Safety presentation and discussion with CHPRC subcontractors.
- CHPRC transmitted a Continuing Safety Improvement Action Plan to RL to provide additional detail to support clear understanding of the underlying causes and alignment with the corrective actions in accordance with Supplemental Contractor Requirements Document 470.2B. Critical analysis identified weakness in four program areas that require additional corrective actions:
  1. Hoisting and rigging
  2. Radiological work practices and technical basis documents
  3. Quality of Condition Reporting & Resolution System (CRRS) closure
  4. Conduct of Operations

- The Executive Safety Review Board (ESRB) met to perform the quarterly review the OS&IH, Nuclear Criticality Safety, Conduct of Operations, and Corrective Action/Price Anderson Amendments Act/Occurrence Reporting programs. The ESRB reviewed and confirmed CHPRC's readiness to proceed with ISMS/EMS verification.
- In a coordinated effort with Employee Zero Accident Council (EZAC) representatives and the Hanford IT contractor, OS&IH commenced with development of web-based electronic database aligned to the safety logbook system, designed to provide tracking and trending capabilities for project safety information.
- Developed and formalized a listing of SHS&Q competent person program assignments (OSHA-based), and supplemented with training course descriptions.
- Continued implementation to the new Hanford Site Chronic Beryllium Disease Prevention Program:
  - Completed ~100% of Beryllium Facility Assessments
  - Completed delivery of gap training for Beryllium Workers
  - Implemented Beryllium Work Permits usage at beryllium controlled facilities
- Supported project personnel through mentoring sessions for Release Authority candidates in EPC and support to various projects to complete designations for competent persons.
- Supported training including teaching courses, CHPRC Work Management Overview, Effective Work Planning, Field Work Supervisor, and AJHA training for Subject Matter Experts, Technical Authorities and BTRs.
- Worked with Mine Safety Appliances Company in the identification of a manufacturing defect in a powered air purifying respirator (PAPR); removed potentially affected units from service and arranged for factory repair, including preparation for February audit of the manufacturing plant in North Carolina as a quality systems response to identifying PAPR manufacturing defect.
- Deployed over 100 additional contamination friskers to the field in support of ARRA workers/activities.
- Issued Revision 2 of the OCRWM QAPP (CHPRC-QAPP-OCRWM-001) to incorporate the Sludge Treatment Project into the OCRWM program to support potential MCO procurement activities for removal of the material from the knockout pots.
- Provided a suspect/counterfeit item briefing at the quarterly subcontractor meeting. This briefing led to requests from some subcontractors for more focused training to their personnel on identification and control of suspect/counterfeit items.

Fifty two self assessments were performed by CHPRC this month resulting in 83 condition reports. Eight condition reports were screened as Adverse with no condition reports screened as Significant.

CHPRC submitted nine safety documents to RL for review and approval, including the annual update to the CSB, ISA, CVDF and 224-B Facilities.

RL approved five documents including two SPA checklists to support transportation of waste materials from the PFP cleanup effort.

Emergency Preparedness (EP) completed scheduled drills for 2009 in all projects/facilities maintaining FERO qualifications. Additionally, 2010 Drill schedules were approved with an emphasis on providing additional drills including operational and environmental components.

The EP department filled all field vacancies and reorganized by creating two field lead positions to provide day to day guidance for the project/facility, and formed a central program staff under an experienced lead, including:

- Nuclear safety professional to perform hazard screenings and develop/maintain EPHAs.

- Radcon professional to assist in improving Radcon emergency response
- Senior coordinator to develop guidance documents, perform training/mentoring, and programmatic assessments

Environmental Program and Strategic Planning (EPSP)

Continued work to complete the remaining Environmental Management System (EMS) corrective actions identified in the corporate review and the RL independent audit in preparation for the Phase II ISMS/EMS Verification Assessment scheduled for February 2010.

ISMS/EMS objectives and targets were revised and reissued to reflect project level organizational changes, guidelines for developing objectives and targets were revised, integration of EMS with ISMS was improved, EMS enhancements were made to various roles and responsibilities procedures and the re-designed EMS webpage was rolled out. In addition, the survey in support of the EMS target for employee transportation to 2420 and 2455 Stevens Center Place buildings was sent to employees on January 4, 2010. Results should be available soon.

On January 20, an EPA inspector performed a compliance inspection of the 100K outfall for compliance with the recently issued NPDES permit. No issues were noted at the close out meeting.

A Notice of Termination for the storm water permit (NPDES Permit WAR-10B90F) for the 100K Area was submitted to EPA Headquarters on January 28, 2010. It was submitted because the piping connections that allowed storm water runoff to discharge via the 100K Outfall were sealed by the crews performing remediation. The termination of this piping ends the need to conduct periodic inspections and other compliance activities.

A new CHPRC procedure was developed and published for spill and release prevention, management and reporting (PRC-PRO-EP-40270) on January 29, 2010 in support of SCRD 450.1A requirements. It maintains the previous reporting requirements, but also phases in implementation of new planning, response, actions, and tracking requirements for smaller spills and releases.

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

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

- QA-EQA-SURV-10-004/IEP 7781 – EMS: Review CHPRC corporate process for procurement and receipt of recycled paper as per the Environmentally Preferred Products guidelines. Two findings (CR-2010-0020, CR-2010-0021) and one opportunity for improvement (CR-2010-0022) resulted.
- QA-EQA-SURV-10-006/IEP 7783 – WM&F: Evaluate procurement of services for the Encapsulation and Storage Facility (WESF), 225-B Lower Roof Repair. No issues resulted from this activity.
- QA-EQA-SURV-10-010/IEP 7793 –NESHAP: Review qualification and training process for samplers at the 296-W-4 Stack. One finding (CR-2010-0090) and one opportunity for improvement (CR-2010-0091) resulted from this activity.
- QA-EQA-SURV-10-013/IEP 7793 – HASQARD: Review BOS D&D compliance with PRC-PRO-QA-268 Control of Purchased/Acquired Items and Services. No issues resulted from this surveillance.
- QA-EQA-SURV-10-044/IEP 8622 – EDM: Evaluate implementation of HTAG charter. One finding (CR-2010-0083) and one opportunity for improvement (CR-2010-0084) resulted.
- QA-EQA-SURV-10-045/IEP 8627 – T-Plant: Review procurement of the HEPA filter process with CHPRC procedures. One finding (CR-2010-0196) and three opportunities for improvement (CR-2010-0197, CR-2010-0198, CR-2-10-0199) resulted.

- QA-EQA-SURV-10-046/IEP 8623 – HASQARD: Review process for use of custody seals on sampling containers by SGRP Samplers. One finding (CR-2010-0127) resulted.
- QA-EQA-SURV-10-047/IEP 8584 – EMS: Evaluate process for establishing Aspects and Impacts and significance the impact has on the environment. One finding (CR-2010-0108) and one opportunity for improvement (CR-2010-0109) resulted.

CHPRC completed and submitted the annual update to the Risk Management Plan to RL concurrent with the delivery of the Performance Measurement Baseline Revision 2. In addition, Rev. 2, Chg 0 of the CHPRC Project Execution Plan (PEP) was issued in preparation for ISMS/EMS Phase II certification.

The ARRA Information Exchange Working Group scheduled for February 9-10, 2010 in Washington DC was postponed due to weather and will be rescheduled in March 2010.

Business Services and Project Controls

The Performance Measurement Baseline (PMB) Revision 2 was delivered February 1, 2010. This delivery capped a significant effort that captured not only the base contract work, but incorporated ARRA workscope and comments and changes offered by RL. The PMB Rev. 2 also incorporated the comprehensive risk analysis that was performed in December 2009 and January 2010.

Worked continued on development of estimates associated with the Request for Equitable Adjustment (REAs) associated with ARRA, due for delivery on February 26, 2010. Work was completed to establish an REA/Proposal database through which estimates will be priced, including the generation of reports in accordance with FAR requirements. Conducted reviews of the REA justification and finalized a list of 31 packages to be submitted. These REAs will complete negotiations associated with the ARRA contract modification.

ARRA reporting continued with submittal of weekly Jobs Data Call updates and the Monthly Report to RL. Assisted Balance of Site personnel in acquiring new PAPR Upgrade Kits (respiratory gear used in the field). This was an expedited order and required coordinating with Buyers, receiving personnel, AVS, truck drivers, and 2101M warehouse personnel to deliver the units in the field as soon as possible. The manufacturer ramped up production of the new models and expedited transportation. Quick turnaround avoided a work stoppage in the field. The high demand for respiratory gear continues.

Material Services support in January included:

- Coordinated exchange of spare parts between facilities for respiratory gear and HEPA vacuums. This “best practice” assists both in accelerating completion of field work, and in utilization of stock that would otherwise be unused. Since the borrowing facility compensates the loaning facility’s Spare Parts Inventory Budget, it represents a “zero-dollar” transaction for the loaning facility.
- Completed three Track Until Fixed CRRs by revising the Purchasing Card Procedure and the PRC PCard Holder’s User Manual to clarify direction on purchase of motorized vehicles and use of affirmative procurement language.

Procurement implemented process changes and contract clause changes to start gathering contractor labor-hour data for ARRA reporting. This is a change in reporting requirements directed by DOE that will require contractors to submit monthly data for ARRA-funded contracts where the work hours are not already being tracked directly in the Contract Labor Time Reporting system (CLTR). Data has thus far been received from approx 15 contractors reporting on 46 releases. First formal report due in early March based on February actual hours.

CHPRC had been experiencing significant difficulty in obtaining technical support for installed instrument maintenance and repair and obtaining spares for Rosemount instruments. CHPRC inquired

of other DOE contractors regarding contractual relationships available to help remedy this situation. As a result, a contractual relationship with the INL in Idaho Falls was provided describing their relationship with Rosemount. This was reviewed by CHPRC and determined to be acceptable with certain changes pertinent to the State of Washington. These terms were successfully negotiated with Rosemount. The Integrated Contractor Purchasing Team (ICPT) which is represented by a member of the CHPRC Procurement organization is in the process of writing a DOE complex wide agreement with Rosemount as a result of these successful negotiations. Possible issues avoided:

- Design for and procurement of replacement instruments as Rosemount's fail or become obsolete.
- Redesign of 200W and HX locations to remove Rosemount instruments.

Interface Management continued to serve as the lead for coordination of Integrated Safety Management System/Environmental Management System (ISMS/EMS) implementation for the Business Services & Project Controls organization. This included facilitating Business Services & Project Controls preparations for the ISMS/EMS Phase II implementation external review scheduled for the beginning of February. Continued to work with AMH and CHPRC SH&Q, Procurement, Training, and EPC to address issues associated with implementation of 10 CFR 851, Worker Safety & Health Program and training requirements for CHPRC Subcontractor employees and completion of associated action items from the CHPRC September 23, 2009 Quarterly Subcontractor Safety Meeting.

Engineering, Projects and Construction (EPC)

ARRA

The ARRA Mobile Facilities Installation Project made seven (7) additional mobile facilities ready for occupancy. Proposals were received and evaluated for the two Phase III mobile facilities procurement contracts during January and award of these contracts will be completed no later than February 15, 2010. Phase III consist of ten Sites and a total of 36 new mobile units.

Central Engineering continued to provide technical support to CHPRC this included:

- Engineering supported Soil & Ground Water in the evaluation of the deformation of ModuTank #2 structural framing and support system after the initial water fill. Engineering conducted structural evaluation to determine the cause and to provide a recommended solution for path forward.
- Engineering issued Work Site Assessment # EPC-CE-WSA-10082, ModuTank #3 Supporting Frame Anchorage system Evaluation and corrective action requirements.
- Issued the PFP Fire Vital Safety System assessment on January 19, 2010. The assessment identified no Findings and four Opportunities for Improvement.
- Chaired and provided review for the Sludge Treatment Project Conceptual Design of the Engineered Container Retrieval and Transfer System. Engineering provided Design Review input and recommendation for the Seismic Design Categorization and Limit State requirements, for Electrical requirements, and for HVAC requirements.
- Leading a Department of Energy (DOE)-wide effort to develop Commercial Grade Dedication (CGD) procedures and policies. The effort is in support of the Energy Facility Contractors Group (EFCOG) and is being worked in coordination with the DOE Richland office (RL) and DOE Headquarters efforts to develop and delivery CGD training to the DOE complex. 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 mid-March at Hanford.

Communications and Outreach

During the month of January, Communications participated in a media event announcing the startup of demolition of the 100K Area 183K West Water Treatment Facilities, a $17.6M Recovery Act funded project. Regional media were on hand to view the demolition and report on the progress. Articles were posted in the Tri-City Herald and Walla Walla Union Bulletin, along with radio and television coverage in the Tri-Cities and Portland areas.

Communications supported the Department of Energy with a site tour hosting CNN reporter Patrick Oppmann. CNN requested the tour and interviews as part of a special television and web report on the one-year anniversary of the passage of the Recovery Act by Congress.

Communications supported RL in producing a *Faces of the Recovery Act* video that features Recovery Act hires from both CHPRC and Washington Hanford Closure.

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.

Communications continued to support and assist through graphics in launching of fact sheets for Integrated Management, PFP, publication services document, Health and Safety EXPO, CHPRC Winter Party, posters, flyers, e-mails, and committees such as the ISMS/EMS programs of Target ZERO, WOW, VPP Poster campaign, ISMS/EMS/VPP Activity book, Green Gazette, and Waste and Fuels VPP mascot logo.

Community Outreach efforts included the Junior Achievement Bowling Fundraiser in recruiting 20 teams.

Communications supported the Central Plateau Cleanup Strategy team in preparing for several stakeholder interactions including, presentations at the Hanford Advisory Board meeting, Tri-Cities Communities, Hanford Advisory Board River and Plateau Committee. Supported EPC with the Project Management Institute Project of the Year submittal, assisted Soil and Groundwater with the Proposal Vendor Conference scheduled February 10, 2010 at the Shiloh Inn.

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)

Modifications to the Standards Laboratory in support of deactivation activities included removal of two safety shower/eyewash stations; two doorways were widened to avoid the need for in-situ size reduction of gloveboxes too large to be removed through the original doorways. Three hoods in Room 187 and the last glovebox in Room 146 in the Analytical Laboratory were isolated from building ventilation, removed, and loaded into an IP-2 container for disposal at the Environmental Restoration Disposal Facility (ERDF). This brings the number of gloveboxes and hoods removed from the 234-5Z with Recovery Act Funds to 38, nearly two-thirds of the 61 removed by CHPRC since October 2008. Crews in the Analytical Laboratory also completed the removal of laboratory equipment inside three gloveboxes in Room 136, including exhaust filters and shelving. All remaining decontamination waste was removed from Glovebox HC-230C-3 and chemical decontamination was initiated on HC-60. Surface Contaminated Object (SCO) survey results are being analyzed for HC-230C-3 to determine whether additional work will be needed prior to removal of the glovebox for disposal as low level waste.

External mechanical isolations were completed and process equipment removal is under way on Gloveboxes HA-19B1 and HA-19B2.

Insulators continued removal of asbestos insulation from piping in the 234-5Z Building, bringing the total removed under ARRA funding to more than 6,900 feet.

Preparations continued toward initiating the removal of more than 5,000 feet of process vacuum lines throughout the facility, beginning in early March. 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.

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 SCO surveys to characterize and authorize transport of successfully decontaminated equipment to ERDF as low level waste. Three gloveboxes are scheduled to be shipped to ERDF in mid-February using the Contaminated Equipment – Special Package Authorization (CE-SPA) process, and a contract has been awarded to test Aspigel ® (decontamination agent) for use at PFP.

Base

Electrical isolation of the glovebox and hoods in Room 636 of 2736-ZB was completed. In addition a Hazards Review Board was conducted to start Glovebox 636 mechanical isolation and removal.

Deactivation and Decommissioning (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 97% complete. The repairs on the canyon crane were completed. Operational test runs were scheduled to be initiated. 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.

A scoping walk down to identify power for sample pumps was completed to support entry into 242Z. A description of the waste payload for the shielded Standard Waste Boxes (SWBs) to support the USQ_T for shipment using the Contaminated Equipment – Special Packaging Authorization (CE-SPA) was provided to Transportation.

RL-0012 Spent Nuclear Fuel Stabilization and Disposition

Sludge Treatment Project (STP) and 100K Operations personnel have completed retrieval of the sludge from the second Settler Tank, the bulk sludge retrieval pass, and two scrubbing passes in the third tank. In the second tank, the project encountered plugging of the intake screen due to grafoil, which required performing more flushing sequences than planned.

A formal design review of the Conceptual Design of the Engineered Container Retrieval and Transportation System (ECRTS) was completed during the month of January. The review team was led by the CHPRC Chief Engineer and included over 15 people performing the review in 12 different discipline areas. This was the first design review conducted by CHPRC that included the elements from the new DOE STD 1189, *Safety in Design*. This is a key element leading to submittal of the CD-1 Decision Package to DOE in late February.

The Knockout Pot (KOP) Disposition project engineers have completed the initial draft of the KOP Conceptual Design Report (CDR). Progress continues on several of the technical documents underpinning the KOP CDR. Four key documents are nearing final review and approval stages. The documents include the Thermal Analysis, the Hydrate Analysis, the Multi-Canister Overpack (MCO) Load Plan, and the Drying Analysis. The final CDR is scheduled for completion on March 31, 2010.

The subcontractor constructing the 100K West Basin mockup at MASF completed cutting and drilling the holes for the keyway in the west pit. The keyway will provide tie-in of the pool floor slab into the overall structure. Construction of the east cell keyway was also initiated. The subcontractor also completed the core drilling in the upper corners of the center wall.

CHPRC has completed its initial evaluation of the Phase 2 vendor technology proposals. A workshop was held between STP and the Phase 2 technology evaluation support subcontractor to incorporate all comments on the reviews. A prioritized listing of technology and engineering tasks needed to determine the basic feasibility of these technologies has been developed and reviewed with STP management. STP will begin to scope the initial round 2 testing programs with the participants.

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 16.8m3 M/LLW and completed 39.0m3 of M-91-42 waste during the month. TRU Retrieval completed fabrication and delivery of Concrete Shielded Overpack dividers & shield rings for high-dose containers**.** Next Generation Retrieval (NGR) completed the factory acceptance test for the VJ Technologies real-time radiography (RTR) trailer and equipment. President's Office (Decision Authority) approved Alpha Caisson Retrieval Project Review Board recommendation to proceed to the next design phase. 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 324 drums and 106 non-destructive assay (NDA) drums. Building materials were delivered for the Environmental Restoration Disposal Facility (ERDF) container maintenance facility and workers began framing the building. 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 18 on-site transfers (567 containers), three off-site shipments (14 containers), completed four off-site shipments (278 containers), and 19 on-site transfers (583 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 1.6M gallons. Slightly Irradiated Fuel (SIF) completed 90% of Definitive Design for Project W-105. The Mixed Waste Disposal Trenches successfully completed the Crane and Rigging critical lift of the Navy Core Basket from the rail road car east of 3AE and staged into 3AE burial ground.

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.

Activity	January		Cumulative	
	Planned	Completed	Planned	Completed
Welling drilling	10	22	62	72
Well decommissioning	14	9	58	10
200 West P&T – Final Design	13%	15%	26%	28%
200 West P&T – Construction	1%	1%	3%	3%
200 West P&T – Testing/Startup	1%	1%	7%	7%
100 DX P&T – Construction/Startup	5%	4%	20%	39%

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 initiated. The 100 Areas Integrated RI/FS Work Plan (DOE/RL-2008-46, Rev. 0) was approved by RL and the regulators on January 19, 2010. The 100-K Addendum to the integrated work plan was also approved on January 19, 2010. Sampling and groundwater treatment completed in January include the following:

- 114 well locations were sampled with a total of 633 samples being collected
- 117 aquifer tube samples were collected from 44 tubes at 25 sites
- 10.8M gallons groundwater treated by ZP-1 treatment facility
- 17.9M gallons groundwater treated by KX treatment facility
- 8.84M gallons groundwater treated by KW treatment facility
- 2.95M gallons groundwater treated by KR-4 treatment facility
- 5.4M gallons groundwater treated by HR-3 treatment facility

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

ARRA

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

Sampling of the soil beneath the structures for 212N, P, and R Project has been completed awaiting results.

Asbestos abatement and demolition preparation activities are complete on the lower Arid Lands Ecology (ALE) structure and demolition has begun; continued with the utility isolation activities for the upper ALE structures.

Three additional cells (nine total) for U Canyon demolition were loaded with designated equipment and cover blocks put back in place. Equipment size reduction activities have started.

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 13,500 tons of soil in January; approximately 12 acres of BC control area have been cleared to date. Excavation at one CW-3 waste site (216-N-4) continued with approximately 2,673 tons of soil removed to date. Sampling/surveys have been initiated on five sites, with completion on four of the eleven MG-1 sites and two completion reports have been

drafted. Four hundred fifty six tons of contaminated soil has been transferred from MG-1 waste site 600-36 to ERDF.

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 in the 100K Area with completing characterization of 116KE. Continued final disposition characterization at 115KE and 117KE (isotope samples cannot be performed at WSCF so are being sent to another lab); and on 183.2KW, 183.3KW and 183.7KW.

Continued cold and dark activities on 117KE; completed cold and dark activities on 115KE and 116KE.

Continued asbestos abatement at 183.7KW; the majority of the asbestos containing material was removed.

Completed removal of the alum line in 183.1KW.

Continued demolition of 183.2KW. Work continued on 105KE Reactor Disposition preliminary design, project definition and regulatory documentation. 105KE deactivation activities continued with an electrical outage scheduled for mid-February. Initiated field work for characterization of the reactor core, process tube, and port surveying in early January and continue into February for core boring activities.

Waste Sites

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

	Current Month		FYTD (9/28/09 – present)	
Waste Site	**Tons**	**Loads**	**Tons**	**Loads**
UPR-100-K-1 (aka 100-K-42)	3,727	259	9,320	640
100-K-3	126	9	126	9
100-K-56	452	34	1,127	95
100-K-47	58	6	758	61
Totals	**4,364**	**308**	**11,332**	**805**

A dry run for scabbling the 105KE Fuel Storage Basin discharge chute wall was conducted prior to initiating work. The dry run demonstrated that better equipment selection could greatly increase contamination control, limit environmental contamination spread, and minimize worker exposure. Work was suspended on UPR-100-K-1/100-K-42 until the necessary contract changes and equipment procurements can be implemented because further work on the UPR-100-K-1/100-K-42 remedial action would remove access needed to perform the scabbling operation.

Continued waste site remediation of UPR-100-K-1 (100-K-42); and 100-K-56, 100K Reactor Cooling Water Effluent Underground Pipelines.

Concluded confirmatory sample operations associated with the 100-K-63, 100KW floodplain contamination area; and 100-K-64, 100KE floodplain contamination area. The radiological surveys and preliminary samples demonstrated that both sites are above the remedial action limits.

Additional equipment and manpower was mobilized early in the month 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 200 units removed to date.

The 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects have reached final design phases. Procurement and contracts are awaiting issuance of Notice to Proceed. Contracts awaiting approval include potable water microfiltration unit, skid mounted substations, air handling unit/HEPA filtration skids, water treatment building and dual use water storage tank, construction contracts for 100B import water line, and re-routed water line inside the fence.

Base

Facilities

Completed characterization and decontamination, and continued cold and dark activities at the 182K Water Reservoir Pump House.

Completed 183.5KW and 183.6KW, Lime Feeder Buildings characterization and cold and dark activities. Decontamination is in process.

Completed 1724KB Maintenance Shop characterization, cold and dark activities, and decontamination. Demolition preparation is in process.

Completed 1713KER Shop Building characterization, cold and dark activities, and decontamination. Demolition preparation is in process.

Completed 116KW Reactor Exhaust Stack characterization. Cold and dark is in process.

Waste Sites

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

	Jan-2010		Cumulative (9/28/09 – present)	
Waste Site	**Tons**	**Loads**	**Tons**	**Loads**
100-K-4	1,390	98	1,390	98
Totals	**1,390**	**98**	**1,390**	**98**

RL-0042 Fast Flux Test Facility (FFTF) Closure

The Fast Flux Test Facility (FFTF) is being maintained in a low-cost surveillance and maintenance (S&M) condition. The 400 Area water system continues to operate providing service to other occupants of the 400 Area and water for fire protection.

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 Management Assessment to validate implementation of the DSA and TSR changes made to close out the HEPA filter performance JCO was kicked off

11.05 Disposition PFP Facility - Base

Plutonium Reclamation Facility (PRF)

- Process equipment removal from the PRF second floor west gallery glovebox is 97% complete
- Repairs on the canyon crane have been completed. Operational test runs are scheduled to be initiated.
- The modifications to the drum dump containment have been completed. Planning for mock up of the use of the containment has been initiated.
- Initiated planning to resume manual size reduction of pencil tanks

2736Z/ZB – Vault Complex

- Completed Electrical Isolation of gloveboxes and hoods in Room 636
- Successfully completed the Hazards Review Board for Glovebox 636 Mechanical Isolation and Removal

242Z – Waste Treatment Facility

- Completed scoping walk down to provide power for sample pumps
- Initiated work on Adequacy of CSER Form (ACF) which will allow fissile work in the gloveboxes
- Provided a description of the waste payload for the shielded Standard Waste Boxes (SWBs) to Transportation to support the USQ_T for shipment using the Contaminated Equipment – Special Packaging Authorization (CE-SPA)

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

- Room 146 – Separated Glovebox 5 from its E4 connections, removed glovebox from the room, and transferred it to SWO for disposal
- Room 136 – Commenced size reduction and process equipment removal from Gloveboxes 1, 2, and 3
- Room 149 – Commenced external equipment removal from Gloveboxes 1 and 2
- Room 221D – Completed electrical and mechanical isolation of lab cabinet in support of removal of Glovebox 5
- Room 230C – Deactivated the limited water bottle fire suppression system for Glovebox HC-60 and started decontamination
- Completed the NDA of process exhaust duct and drains in Room 230C
- Room 235B – Completed size reduction and removal of the induction furnace in Glovebox HA-19B2 and initiated size reduction of the conveyor in HA-19B1
- Room 227 – Replaced the inlet HEPA filter on Glovebox HC-227S
- Room 232 – Continued gloveport activations and external mechanical isolations on Glovebox HA-46

- Room 235D – Erected framework for containment around RADTU Glovebox 400 and started training and mobilization
- Awarded contract for the Secondary Substation as part of the Air Conditioning Project

RL-0012 Spent Nuclear Fuel Stabilization and Disposition

Sludge Treatment Project (STP)

- The ECRTS Technology Maturation Plan (TMP) was submitted to DOE for informal review and the Functional Design Criteria and Code of Records were issued
- The settling behavior test report (PRC-STP-00140) was revised to address Joint Test Group (JTG) comments and was re-presented to the JTG for approval
- MASF Engineering initiated work with NuVision to scope the preliminary design of the XAGO tool, and discuss the associated developmental testing
- The DOE/ECRTS Transportation personnel met with the DOE Headquarters Transportation Assist team. The assist team will work with STP to facilitate planning, development, and approval of the transportation safety documentation required in support of the STP mission.
- STP and RL Transportation Safety personnel met to discuss DOE's comments on the F-SPA checklist and supporting analyses to allow shipment of sludge from the Engineered Container SCS-230 (Settler Tank Sludge). An approach to resolve DOE's concerns was agreed upon, and proposed resolutions for consideration were provided.
- KOP Disposition project presented Tests 1 and 4 reports to the JTG this month, which were approved with editorial comments. Test reports in preparation include Tests 2 and 5, *Screen Separation Table and Loading Verification Container*; Test 3, *Low Density Removal with Vacuum System*; Test 6 *Loading MCO Baskets/Inserts*; and Test 8, *MCO Basket Draining;* Test 9, *Integrated Testing*, has started.

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 76m^3 of ARRA M/LLW to treatment facilities, and completed 58m^3
- M-91-42 TPA:
  - 16.8m^3 shipped and 39.0m^3 completed during month
  - 8,106m^3 shipped and 7,920m^3 completed since January 2003 (Base & ARRA)
- M-91-43 TPA:
  - 0m^3 shipped and 1m^3 completed during month
  - 671m^3 shipped and 661m^3 completed since January 2003 (Base & ARRA)

13.05 TRU Retrieval

- Disassembled 3A Trench 17 Boxes 82 and 80
- Repaired cracked welds on the large Fuel Reprocessing Plant (FRP) lift fixture and passed load test
- Resumed 4B Trench 11 excavation on January 31
- Received Mobile Radioactive Decontamination Unit (MDU) trailer and initiated set-up

- Completed fabrication and delivery of Concrete Shielded Overpack dividers & shield rings for high-dose containers
- Next Generation Retrieval (NGR)
  - Completed the factory acceptance test for the VJ Technologies RTR trailer and equipment
  - Received the Vent Station CONEX container on site
  - Submitted the specifications for the Trench Face Process System for CHPRC and RL review
  - Issued the Safety Design Strategy for the Trench Face Process System
- Alpha Caisson Retrieval
  - Decision authority (CHPRC President's office) approved Project Review Board recommendation to proceed to next design phase
  - Issued Potential Energetic Chemicals Report
  - Revised Preliminary Hazards Analysis to incorporate Waste Retrieval System
  - CHPRC completed incorporating comments on conceptual design report document. Document is currently routing for approval.
  - Released Material at Risk reports on Alpha Caisson 1, 2, 3, and 4

13.06 TRU Repackaging

- Completed the fabrication of the empty drum storage structure (229-T)
- Completed a successful Hazard Review Board for the empty drum compactor repairs and proceeded to isolate power and decontaminate the internal work area
- Shipped 277 containers from T Plant
- Received 182 containers to T Plant
- Received one empty roll off box from ERDF

13.07 Waste Receiving and Processing Facility (WRAP)

- Non-destructive examination (NDE) 324 drums
- Non-destructive assay (NDA) 106 drums
- Continued support of Pu-238 activities
- Commenced WRAP- Specific training for 21 nuclear chemical operators (NCOs)

13.10 ERDF Additional Capabilities

- Three of the 14 new trucks for transporting roll-on/roll-off containers arrived on site
- The Department of Transportation vehicle inspections were completed on the new trucks
- The facility fork lift was selected and the expected delivery is April 26
- Completed design reviews and received D/B contractors "stamped" building Mechanical and Electrical design drawings
- Excavated, placed, and backfilled all electrical conduit (i.e., power, truck "hot starts", yard lighting)
- Received and erected Pre-Engineered Metal Building. Punchlist items remain.
- Installed concrete forms, placed rebar, and completed two of eight concrete apron pours (~230 yd^3)
- Framed all yard lighting poles and installed the majority of the poles (~90%)
- Completed design review, issued "new" site access design, prepared fair cost estimate and issued limited notice to proceed. Contractor started road preparation on February 2.
- Initiated building finishes (i.e., sheet rock, mud tape, rough-in electrical)

13.15 TRU Disposition

- Continuing close-out schedule for Hanford TRU program
  - Closed 16 of 22 non-conformance reports (NCRs)
  - Cancelled 26 of 50 procedures
  - Revised 13 of 30 procedures
- Completed pre-transfer visit from Carlsbad Field Office (CBFO) records staff
- Conducted DOE-CBFO and Central Characterization Project (CCP) Senior Management briefing on TRU waste activities
- Continued public clearance reviews for Acceptable Knowledge (AK) documents in support of CCP waste stream approvals
- Coordinated preparations for new trailers at WRAP to support additional staff
- Supported Reactor Head and Large Container alternative analysis review
- CCP implementation:
  - NDE: competed and ready to commence
  - HSGS: completed and ready to commence
  - Flammable gas sampling: on schedule for April
  - NDA: CCP continuing their calibration verifications
  - TRU PACT shipping: on schedule for March shipments
- Provided Conceptual Design comments for Alpha Caissons Project and completed comment disposition

13.21 Mixed Waste Disposal Trenches

- Shipped two leachate Beall tankers to ETF
- Received 12 offsite shipments, 35 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 Material Balance Area inventory
- Submitted annual Interim Storage Area (ISA) Safety Basis update (including modification for Interim Storage Cask Pad #3 operations) to RL for approval
- Completed work-site preparation activities for installation of Multi-Canister Overpack Handling Machine (MHM) fall protection system

13.07 Waste Receiving and Processing Facility (WRAP)

- Maintained the facility in a safe and compliant condition

13.08 T Plant

- Maintained the facility in a safe and compliant condition

13.08 Central Waste Complex (CWC)

- Completed four off-site shipment, 278 containers
- Completed 19 on-site transfers, 583 containers
- Received 18 on-site transfers, 567 containers
- Received three off-site shipments, 14 containers
- Support M/LLW Treatment by planning and loading the large yellow Type A metal box, on loan from Tank Farms, with a corroded metal box from the CWC Expansion Area

- Low Level Waste Burial Grounds (LLBG)
  - 218-W-5 - MWT 31 – Disposed of the three Navy Closure Heads, last three pieces of legacy waste stored in the W5 Staging Ares, into MWT 31
  - 218-W-3AE – Successfully completed the critical lift of the Navy Core Basket from the rail road car east of 3AE and staged into 3AE burial ground
  - 218-E-12B – Commenced placing clean fill soil over the higher contaminated areas of 12B and began surveying the remaining areas to minimize the spread of contaminated tumbleweeds throughout 12B burial grounds

13.11 Liquid Effluent Facilities

- Received (January) 29 tankers; (28K gallons)
- Treated (January) 1.3M gallons
- 200A Treated Effluent Disposal Facility (TEDF) discharged (January) 1.6M gallons
- Received Environmental Restoration Disposal Facility leachate (~100,000 gallons) at LERF Basin 44
- Maintenance activities
  - Completed replacement of Reverse Osmosis Pump 60F-P-1A
  - Completed resin change-out and regeneration of polisher columns A & C
  - Transferred 20 customer waste drums to Concentrate Tank A
  - Repaired Pressure Control Valve 60-F-100 on Reverse Osmosis System
  - Repaired inlet hose at 2025ED Loadout Facility for tanker unloading
  - Repaired anti-foam tank backflow valve
- 310/340 Facilities
  - Completed construction of 340/307 bypass
  - Completed Operability Acceptance Testing; working punch list items
  - Operated Retention Transfer System; three batches discharged to City of Richland

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)
  - Issued Project W-105, “Interim Storage Cask Pad #3,” Functional Design Criteria
  - Submitted the Slightly Irradiated Fuels Interim Disposition Program for the Project Management Institute 2010 Project of the Year Award. The local winner will be announced March 2, 2010.
  - Completed the 90% Definitive Design Review for the Interim Storage Cask (ISC) Container Restraint System. Design completion is on schedule for late February.

13.21 Mixed Waste Disposal Trenches

- Maintained the trenches in a safe and compliant condition

RL-0030 Soil and Groundwater Remediation

EPC Projects in Support of S&GRP - ARRA

Work continues on the 200W Area Pump and Treat Project 90 percent designs for the Process Facility and Balance of Plant. Additional design work is required to incorporate changes in the equipment sizing and the lime addition system; this is being handled as a separate design contract with a specialized firm. Thirteen road crossings have been completed and grubbing for transfer piping has started for 200W pump and treat. Contract awarded for construction of the extraction and injection buildings. The request

for expression of interest for the Process and Radiological facilities has been released. The plan is to get a single general contractor for the entire project, and a bidder meeting scheduled for February 10, 2010.

The 100-DX Pump and Treat construction is 40% complete. Construction of the process building and two transfer buildings by the fixed price contractor is 98% complete, with the exception of a small punch list of items remaining. Electrical service tie-ins will be complete no later than February 12, 2010. Installation of equipment inside the process building began on January 25, 2010.

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. A 30% design review for the chemical addition system required for the new Resin Tech SIR-700 resin was completed on January 12, 2010. A 90% design review on the chemical addition system will be held on February 9, 2010.

Procurement and receipt of materials for the facilities is on-going. The first two skids are scheduled to arrive on site March 5, 2010. Delivery of the vertical transfer and booster pumps is scheduled for March 31, 2010. The procurement specification for the dual laminate Fiberglass Reinforced Plastic (FRP) Polyvinylidene fluoride (PVDF) lined, vertical tank for storage of sulfuric acid for the chemical addition system was completed January 29, 2010. This tank has an 18-22 week lead time.

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.

Environmental Programs and Strategic Planning - Base

Tri-Party Agreement change packages to implement the new Central Plateau decision architecture have been drafted. These change packages incorporate regulator input and have been provided to them for review and comment.

The Best Management Plan for NPDES Permit WA-002591-7 in support of K Area cleanup has been completed and EPA Region 10 was notified in late January via letter.

Well Drilling and Decommissioning – ARRA

	January		Cumulative	
	Planned	Completed	Planned	Completed
100-NR-2	8	18	35	42
100-HR-3 H Area	0	0	12	12
100-HR-3 D Area	1	3	5	12
200-BP-5	0	0	1	0
200-ZP-1	1	0	5	4
100-BC-5	0	1	4	2
Total	10	22	62	72

Notes:

- *200-BP-5:* The "K Well" construction has completed and the metric will be claimed in early February. The "M Well" drilling is in process.
- *200-ZP-1:* Drilling and construction of wells taking longer than planned. The completion of the fifth metric is expected in February and the sixth metric is on target for a March completion.
- *200-ZP-1 Expansion:* Currently, twelve of 20 wells have been initiated with nine wells drilled to total depth and constructed and eight wells have been developed.

- *100-BC-5:* The remaining two wells are in process with the third well in construction and the fourth well is being drilled.

River Corridor

100-BC-5 Operable Unit - Base

Comment responses on Draft A of the 100-BC Operable Units Work Plan Addendum and Sampling Analysis Plan have been provided to EPA. Extensive reorganization of the work plan document is underway to satisfy the EPA requested format, and comment responses are being incorporated into the Rev. 0 versions through a collaborative process with RL and EPA.

Sampling work for the four-well drilling campaign continues. Sampling activities were completed for the third well, C7507 (total depth of 195.0 feet below ground surface (ft bgs) on January 29, 2010. Sampling has been initiated on the fourth well, C7665, and as of January 29, 2010, the sampling of the borehole was complete to 70 ft bgs.

All field work for collecting samples from the base of the 100-B-27 excavation site located directly south of the C7505 well-drilling location was completed in January. All initially-planned soil-sample (both near-subsurface and saturated subsurface) results were received on January 14, 2010. These results show very little, if any, hexavalent chromium concentrations in the soil. Upon receipt and initial evaluation of the data, a decision was made on January 14, 2010, by RL and EPA to discontinue any further sampling. The site was subsequently returned to Washington Closure Hanford control. Further work includes the production of a summary report for this sampling effort, and this work is now underway.

100-KR-4 Operable Unit - 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, and acceptance testing of affected components was initiated by SGRP during January. Flow through KR4 Transfer Building 1 was reinitiated at the end of January. Repair of freeze damage sustained earlier in the winter to KR4 Transfer Building 1 components was also underway. KX Transfer Building 1 continued to operate at reduced flow due to construction. Construction and development of the final well supporting Phase 2 realignment of the KX and KR4 pump-and-treat systems were completed.

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 for internal 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.

Preparation of an excavation permit request to support installation of the four Phase 3 wells was initiated at the end of the month. Phase 3 realignment will impact all three 100-KR-4 pump-and-treat systems by adding three new extraction wells to the KW and KR4 systems, realigning wells from the KR4 system to the KX system, reducing long line lengths associated with four KX system wells to improve operability, and providing spare extraction well connection capacity to the KX system. Phase 3 implementation is necessary to support attainment of the 2012 Tri-Party Agreement target for river protection. RL was briefed regarding the scope of the Phase 3 realignment at the end of January in preparation for briefing EPA in early February.

The 100 Areas Integrated Remedial Investigation/Feasibility Study (RI/FS) Work Plan (DOE/RL-2008-46, Rev. 0) was approved by RL and the regulators on January 19, 2010. The 100-K Addendum to the integrated work plan was also approved on January 19, 2010. Paperwork to support installation of the 100-K Area RI wells is in preparation. Two of the proposed RI wells cannot be drilled in the approved locations due to cultural issues, and alternative locations are being evaluated.

Tri-Party discussions to address EPA and Ecology comments on the Draft A, In Situ Remediation Focused Feasibility Study/Proposed Plan (FFS/PP), continued through the month. Revision of the FFS/PP to address the comments is in progress. 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.

100-NR-2 Operable Unit - Base

The NR-1/2 OU Proposed Plan to Amend the Interim ROD (Draft B), as transmitted from RL to Ecology in December, was reviewed by both Ecology and EPA. Joint regulator comments were received on January 28, 2010. Draft comment responses to these regulator comments were initially provided to RL on February 24, 2010. Document revisions to address these comments are underway.

Draft A of the 100-N Operable Units Work Plan Addendum and SAP, as transmitted from RL to Ecology in December, are currently under review by Ecology. A meeting to go over some initial regulator comments was held with RL and the regulators on January 19, 2010. A workshop process for resolving comments will likely be implemented, with an initial information-sharing workshop to be tentatively held on February 17, 2010. Official comments are still expected by the end of the 60-day regulator-review period.

Primary field activities for the Jet Injection Treatability Test began were completed in December, with all three of the test plots being installed. Site clean-up activities and contractor demobilization is mostly complete. The associated weekly-based aquifer-tube sampling (as required by the Jet Injection TTP) is complete, and the final aquifer-tube sampling event will be held approximately three months after the initiation of the test (early March). Core sampling (as part of the 171 well drilling campaign) is tentatively planned to begin on February 4, 2010, to support the evaluation of the Jet Injection test.

Engineering continues on the design for an injection system for the Apatite Barrier expansion. The final design is expected to be complete on February 3, 2010. Design components have been itemized, and primary items are being identified for immediate procurement. The associated Treatability Test Plan (TTP) for allowing the future expansion activities is being produced, with and internal draft expected in mid-February. Additional planning activities are underway.

Total petroleum hydrocarbon studies are continuing with Pacific Northwest National Laboratory (PNNL) as planned. All field data-collection work is complete, and the final report is being produced. This report is expected to be complete in February.

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 be run in its pre-test configuration.

DR-5 was not operational because the system is being realigned to extract water from the “hot-spot” in the Southern D area plume using extraction well 199-D5-104. Additionally, repairs were being made to

replace an air compressor that had failed earlier. Construction activities were completed in late January, and acceptance testing is expected to be completed in early February.

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. Efforts continued to address comments raised during the cultural review of the HX building location. These comments are expected to be resolved in February.

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. Design efforts for these tests are expected to begin in February.

Groundwater sampling results from the October (low river stage) decision unit risk assessment sampling event are being evaluated to support the planned February (transitional stage) sampling event.

100-FR-3 Operable Unit - Base

Formal EPA comments on Draft A of the 100-F & IU-2/6 Operable Units Work Plan Addendum and SAP were received on November 25, 2009. Comment responses have been provided to EPA. Extensive reorganization of the work plan document is underway to satisfy the EPA requested format, and comment responses are being incorporated into the Rev. 0 versions through a collaborative process with RL and EPA.

Planning and preparation work has been initiated for upcoming RI/FS work plan field-investigation activities. Production of a draft drilling-contract statement of work and a draft drilling description of work has been initiated. The processing of an excavation permit, to include both cultural and ecological evaluations, has also been initiated.

300 FF-5 Operable Unit - Base

EPA final comments to the RI/FS Work Plan and SAP Draft A have been received and are being reviewed. Formal comments have also now been received from the Nez Perce Tribes and State of Oregon. Geophysical testing will continue prior to initiation of infiltration testing during low river stage anticipated to be in February or March, 2010.

Central Plateau

200-UP-1 Operable Unit - Base

Revision 3 to the 200-UP-1 OU Groundwater Remedial Design/Remedial Action Work Plan (DOE/RL-97-36) was finalized and is in the process of being issued. A meeting was held with DOE on January 21, 2010 to review capture zone analyses for the Tc-99 plumes near WMA S-SX and to define well locations for the remedial design effort. A two well extraction system at 50gpm total is sufficient to capture the plumes.

The U Plant pump and treat system remained shut down and is undergoing well redevelopment to enhance extraction well production. Camera surveys of both wells indicated significant fouling of the well screen. Scrubbing of the well screens is planned.

200-ZP-1 Operable Unit - Base

Twelve of 14 groundwater extraction wells are currently online pumping water at a rate of approximately 255 gpm.

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

Active SVE operations have ended for the winter months; passive SVE operations are ongoing. Heaters within the active SVE units are operating to prevent freezing. Granulated activated carbon heater units are on order to help the units operate more efficiently in colder temperatures. SVE units are scheduled to come on-line the end of February 2010.

Regulatory Decisions and Integration - Base

- Submitted the 200-MW-1 Feasibility Study (Draft A) to RL for review. This document is being transmitted to meet the TPA milestone date of February 28, 2010 for the 200-MW-1 FS (TPA M-015-44B).
- Received RL comments on the 200-CW-5 Feasibility Study (Draft C).
- Issued the 200-BC-1 Treatability Test Report Rev. 0. RL requested additional modifications to the document and Rev 1 will be issued in February 2010.
- RL comments were received on the West Lake Sampling and Analysis Plan (Decisional Draft)., Draft A of the document will be provided to RL in February 2010.
- Developed a draft work plan for the Non-Operational Areas evaluation in the Outer Area. A workshop will be held with RL in February to discuss the approach.
- Completed Ecology's review of 200-MG-1 Action Memorandum (Draft A) for 37 remaining waste sites in the Outer Area.
- Submitted the 200-MG-1 Removal Action Work Plan (Decisional Draft) for 37 remaining waste sites in the outer area to RL for review and comment.
- Completed the quarterly letter report for Burial Ground Sampling and Analysis for the period of October to December 2009 in support of TPA Milestone M-91-40, Requirement 2; RL transmitted this letter to the regulator on January 26, 2010.

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 January:

- The contract for 20 boreholes needed for instrumenting and logging for the pilot test was issued on January 6, 2010.
- A statement of work has been drafted and will be issued as a request for proposal for procurement in mid to late February for a dry air delivery system for the project.
- Radiological down-posting has been completed at the BCCA area that will allow the Mission Support Alliance contractor access for field work for the 13.8 KV power supply needed to 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 Uranium Sequestration has been completed and was formally transmitted to RL on January 21, 2010, satisfying TPA-015-54 due January 31, 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
  - Three additional cells (nine total) of U Canyon were loaded with designated equipment and cover blocks put back in place
  - Equipment size reduction activities have started
- 212N/P/R Buildings D&D
  - Sampling for soil beneath 212N, 212P, and 212R have been completed and results are pending
- 200-CW-3 Waste Sites Sampling
  - Excavation of the second remove, treat, and dispose (RTD) site (216-N-4) continued in January. Approximately 2,583 tons of soil was removed and transferred to Environmental Restoration Disposal Facility (ERDF) during January.
  - Confirmatory Sampling No further Action (CSNA) samples for site 2607-N/P/R have been analyzed and no further action is anticipated based on initial review of the results
  - The final Tri-Party Agreement change notices for the Sampling and Analysis Plan and the Remedial Action Work Plan (RAWP) were approved
  - Verification samples were collected from waste site 216-N-1 on January 29, 2010 and transferred to the lab for analysis
- ALE D&D
  - Completed asbestos abatement activities on the lower ALE facilities
  - Completed demolition preparation activities on the lower ALE facilities
  - Began demolition activities on the lower ALE facilities
- BCCA Waste Site Remediation
  - Remediation using super dump trucks continued with approximately 29,200 tons cumulative to date of soil removed and transferred to ERDF
- Model Group 1 (MG-1)
  - Review of the Response Action Completion Report for 200-E-110 and 600-21 continues
  - Initial field excavation of site 600-36 is complete contingent upon verification sampling, and 456 tons of contaminated soil was transferred from 600-36 to ERDF
  - Analysis of sampling data for 600-51 indicates RTD is not required. Closure documents for site 600-51 are being prepared.
  - Preparations for RTD of site 600-40 are ongoing with an anticipated start of late February or early 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.
  - Surface soil sampling was performed at 20 locations for CSNA. Site 600-218 sample results indicate additional sampling is required. The Sample Instruction (SI) is being adjusted and additional sampling will be performed.

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 of 105KE Reactor Disposition
- Continued project definition of 105KE Reactor Disposition
- Continued pre-characterization work of 105KE Reactor Disposition

- Deactivation activities at 105KE Reactor continued with electrical outage scheduled for mid-February
- Completed characterization of 116KE. Isotopes contained in 115KE/117KE samples will require the removal of existing samples from the WSCF lab. Lab tests to be performed at a private facility.
- Continued cold and dark at 117KE
- Completed cold and dark at 115KE and 116KE
- Continued characterization of 115KE and 117KE, where isotopic analyses require usage of a private laboratory
- Completed removal of alum line in 183.1KW; this facility is ready for demolition in mid-February
- Continued final disposition characterization at 183.2KW, 183.3KW, and 183.7KW
- Demolition on 183.1KW head house should resume in February. Demolition first occurred in early November for the bauxite tank in front of this building.
- Demolition continues on 183.2KW, where wall removal has been done on both sides, working towards the 183.7KW tunnel running through the center of 183.2KW
- Continued asbestos abatement at 183.7KW; anticipate completion mid-February. Glycol removal was initiated and is anticipated to complete in later February.
- 1706KE/KER below-grade asbestos removal remains suspended due to structural integrity concerns. An independent structural consultant will be onsite in February.

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.
- Work was completed to stop flow from miscellaneous 100K Area pipes into the 72-inch active discharge pipeline that drains directly into the Columbia River
- Remediation continued on 100-K-47, 1904K process sewer. Work is in progress to truncate or air gap the line.
- Remediation was initiated on the 100-K-4, 1706KE Wet Fish Studies Ponds and Valve Pits with the structure and most of the soils being removed during the month
- Remediation continued on UPR-100-K-1/100-K-42 with continued soil excavation. Performed a dry run for scabbling the discharge chute concrete causing replanning to increase ALARA practices. Work on the UPR will be temporarily suspended until the scabbling can be completed.
- Additional equipment was mobilized and crews readied to perform remediation near the 183.1KW Head House once D4 operations are completed

Other

- Continued design of the 100K Area River Water Isolation, Electrical Power Isolation, and the K West Basin Airborne Contamination Remediation Projects
- Reached Final Design Phase for 100K Utilities Re-Route Project and initiated the procurement process of long-lead procurement item and major construction contracts

Base Facilities

- Completed characterization and decontamination at 182K Water Reservoir Pump House; continued cold and dark. Electrical isolation will complete mid-February and demolition should start immediately thereafter.

- Completed 183.5KW and 183.6KW (Lime Feeder Buildings) characterization and cold and dark activities. Decontamination is in process.
- Completed 1724KB (Maintenance Shop) characterization and 1713KER (Shop Building) cold and dark activities, and decontamination. Demolition preparation is in process.
- Completed 116KW Reactor Exhaust Stack characterization. Cold and dark is in process.

Waste Sites

- Completed the electrical wiring in the container transfer area tent in mid-January
- Planning is complete; work will begin on the remediation of 100-K-4 (Group 2 Waste Site)

MAJOR ISSUES

RL-0011 Nuclear Materials Stabilization and Disposition of PFP

Issue Statement – Additional decontamination agents are needed for gloveboxes with contamination etched into the stainless steel.

Corrective Action: A contract has been awarded to Fauske and Associates for additional testing of decontamination agents, including Aspigel Fauske and Associates will complete testing and provide its final report by April 9, 2010. PFP will also be observing a demonstration of Decon Gel 1101, Cellular Bioengineering Incorporated, to be conducted at 100K Area in early March by the D&D Project. Preliminary testing data on the Decon Gel process is expected to be received from DOE's Savannah River Site within the next few weeks.

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 – Trench Face Processing System is a Major Modification to the Low-Level Burial Grounds

Corrective Actions – Propose tailored approach to DOE-STD-1189 (complete). Document impacts of agreed-to approach in letter to RL.

Status – Impacts documented per CHPRC-1000027. Additional documents are required and potential 6-month schedule impact due to contractual review durations.

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^3 (at least five boxes with inner containers) planned for retrieval from 3A Trench 17

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

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

Status – Delay impacts achieving planned shipping retrieval volumes

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.

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 - Well decommissioning ARRA metrics are not being achieved.

Corrective Action - Project plans to recover for this fiscal year by supplementing additional wells for decommissioning to meet the 175 well ARRA metric for FY 2010.

Status - Regulators and Operable Unit leads are very reticent to relinquish old wells for decommissioning until after the RI/FS decisions are completed. Currently have 190 wells approved for abandonment ready to process for decommissioning. Continue to work the issue with RL on available wells to decommission.

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 – Develop a new schedule to obtain requested data and process a TPA change package to establish a new TPA date for submittal of the Proposed Plan.

Status – A schedule for the additional characterization and incorporation of the results into the 200-UW-1 Proposed Plan was provided to RL. A meeting will be scheduled in February to discuss with Ecology.

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 February, 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.

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.

Status – Work in progress.

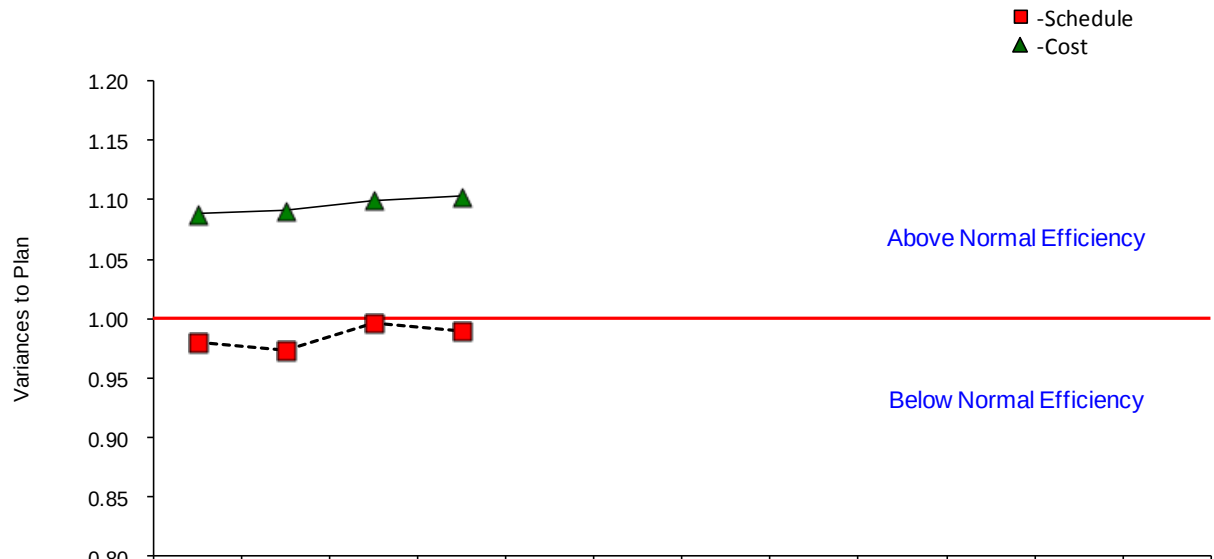
Issue Statement – New sites are being discovered where radiological or chemical contaminants are being found above cleanup standards. Data research is being conducted to generate even more sites (approximately 10) of similar nature.

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 will be added via baseline change request/request for equitable processes as they are encountered and defined.

Status – BCR/REA process has been initiated.

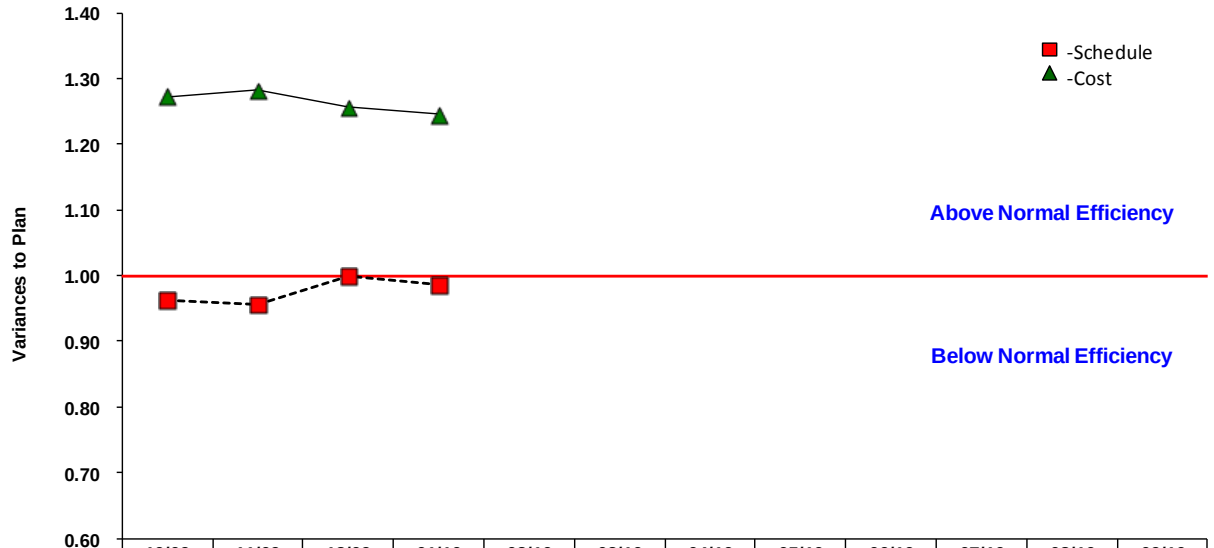
EARNED VALUE MANAGEMENT

Schedule and Cost Performance Indices



	10/09	11/09	12/09	01/10	02/10	03/10	04/10	05/10	06/10	07/10	08/10	09/10
MONTHLY SPI	0.91	0.91	1.29	0.92								
MONTHLY CPI	1.12	1.12	1.20	1.14								
CTD SPI (Cum.)	0.98	0.97	1.00	0.99								
CTD CPI (Cum.)	1.09	1.09	1.10	1.10								

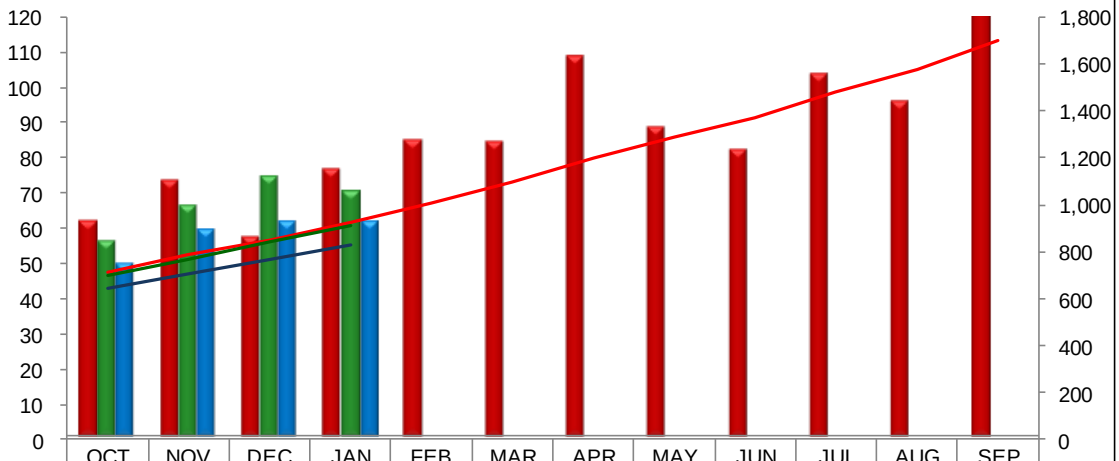
Schedule and Cost Performance Indices - ARRA



	10/09	11/09	12/09	01/10	02/10	03/10	04/10	05/10	06/10	07/10	08/10	09/10
MONTHLY SPI	0.92	0.93	1.39	0.90								
MONTHLY CPI	1.40	1.33	1.12	1.17								
CTD SPI (Cum.)	0.96	0.96	1.00	0.99								
CTD CPI (Cum.)	1.27	1.28	1.26	1.25								

Schedule and Cost Performance

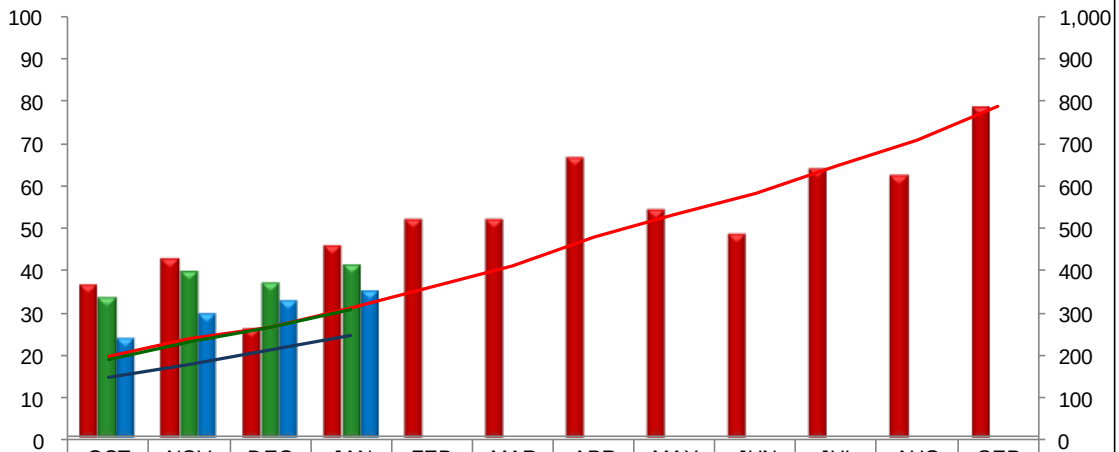
Bars: Current Month ($M) Lines: Contract To Date ($M)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY BCWS	62.1	73.4	57.7	76.8	84.9	84.8	108.8	88.9	82.1	103.8	96.2	129.4
MONTHLY BCWP	56.4	66.6	74.7	70.6								
MONTHLY ACWP	50.3	59.6	62.1	62.0								
CUMULATIVE BCWS	715.5	788.9	846.7	923.5	1,008.4	1,093.2	1,202.0	1,290.9	1,373.0	1,476.8	1,573.0	1,702.4
CTD BCWP	701.8	768.4	843.1	913.7								
CTD ACWP	644.8	704.4	766.5	828.5								

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	52.2	52.0	66.4	54.4	48.8	64.0	62.4	78.3
MONTHLY BCWP	33.9	39.9	37.1	41.3								
MONTHLY ACWP	24.3	30.0	33.1	35.1								
CUMULATIVE BCWS	198.2	241.1	267.7	313.7	359.9	411.9	478.3	532.7	581.5	645.4	707.8	786.1
CTD BCWP	190.8	230.7	267.8	309.0								
CTD ACWP	150.0	179.9	213.1	248.2								

Performance Analysis – January

ARRA Performance by PBS ($M)

	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	6.9	6.8	7.8	(0.1)	(1.0)
RL-0013 - MLLW Treatment	4.6	1.9	2.3	(2.7)	(0.4)
RL-0013 - TRU Waste	9.6	7.7	6.2	(1.9)	1.5
RL-0030 - Soil and Groundwater	7.7	7.2	3.9	(0.5)	3.3
RL-0040 - U Plant/Other D&D	11.5	8.3	7.4	(3.2)	0.9
RL-0040 - Outer Zone D&D	(2.2)	0.8	2.2	2.9	(1.5)
RL-0041 - 100K Area Remeditation	7.9	8.6	5.3	0.7	3.3
Subtotal	46.0	41.3	35.1	(4.7)	6.1
Fee			2.7		
Total			37.9		

ARRA

The unfavorable schedule variance (-$4.7M/-10.2%) reflects the implementation of BCR-PRC-10-011 PRC Baseline Revision 2:

- The RL-0013 negative variance (-$4.6M) is due to a delay in delivery of ERDF transport trucks and super dumps caused by procurement and manufacturer production issues; delay in TRU Retrieval progress due to significantly deteriorated boxes (new techniques must be developed and verified for each box) coupled with inability to make progress in Trench 11 due to concerns in adjacent Trench 10.
- The RL-0030 negative variance (-$0.5M) is within reporting thresholds, however the primary contributor to the variance is the 100-HR-3 Operable Unit where work scope planned in the current month was completed in earlier months resulting in a negative cost variance for the current month. No impact to total contract schedule as the project continues with a significant CTD positive schedule variance.
- RL-0011 and RL-0040 variances (-$0.4M) are within reporting thresholds.
- RL-0041 positive variance (+$0.7M) is due to:
  - Waste Sites (+$1.0M): Implementation of PRC Baseline Rev. 2 resulted in a current-month point adjust of $0.7M; $0.2M of work scope was accelerated: and $0.1M of work scope was revised from the 50/50 earned value method to percent complete.
  - 100K Area Project (Facilities and Others) (-$0.3M): positive variance in 105KE Reactor Disposition (+$0.2M) where decontamination activities started early and KW Deactivation (+0.2M) as debris removal has been efficiently performed. This is offset by utilities reroutes (-$0.7M) where several small contracts slipped from late January into early February.

The favorable Cost Variance (+$6.1M/+14.9%) reflects the implementation of BCR-PRC-10-011 PRC Baseline Revision 2:

- The primary contributors to the RL-0030 positive variance (+$3.3M) are as follows:
  - Ramp-up and Transition (+$2.6M) due to procurement and installation of mobile offices and project staffing charges that were incorrectly charged to trailer mobilization rather than construction. These charges will be corrected in February. No significant variance is anticipated at completion for this account.
  - 100 HR-3 Operable Unit (+$0.8M) due to previously submitted accruals that were erroneously overstated. The reversal in January caused the current month positive cost variance. No impact to overall contract EAC.
- The RL-0041 positive variance (+$3.3M) is primarily due to:
  - 100K Area Project (Facilities and Others) (+$3.3M) due to Facilities (+$2.6M) achieving efficiencies of scale as groups, instead of individual facilities, are being demolished concurrently; and 100K Utilities (+$0.7M) where the waste treatment building procurement performance was overstated in January but is expected to attain that design/procurement performance by mid February so no long-term impact is anticipated.
  - Waste Sites (-$0.2M) due to implementation of PRC Baseline Rev. 2 which resulted in a current-month point adjustment.
  - Project Services & Support (+$0.2M) General and Administrative achieved efficient use of assigned resources.
- The RL-0013 negative variance (+$1.1M) is due to lower G&A and Direct Distributables allocations due to variations in spending across CHPRC projects and lower than planned costs for MLLW treatment due to efficiencies created by treating waste at ES-Clive rather than as planned at Perma-Fix Northwest (due to a waiver received from DOE); partially offset by increased costs to recover ERDF container maintenance facility schedule coupled with delayed receipt of costs for previously received equipment.
- The RL-0011 negative variance (-$1.0M) is due to overhead allocations (i.e., Project Services Distribution, G&A, and Direct Distributables) and to PermaFix waste costs for filters removed in Filter Room 310 in Fiscal Year 2009 (this was identified as FY09 Carryover Work Scope). This trend is not expected to continue.
- The RL-0040 negative variance (-$0.6M) reflects: waste sites (-$1.5M) primarily related to increased depth of excavation on BC Control Area. BC Control Area is being evaluated for change control to reflect the unanticipated conditions. Additionally, the lack of additional super dump trucks reduced the efficiency in this area. The U Ancillary Project current month overrun of ($-0.7M) is due to higher MSA costs than planned as well as labor for the asbestos abatement issues. This is offset by (+$0.8M) with efficiencies gained with the ALE Project (D4) due to the lack of asbestos abatement required and G&A adders under run by (+$0.8M).

Base Performance by PBS ($M)

	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - Nuclear Mat Stab & Disp PFP	3.6	3.4	3.4	(0.2)	(0.0)
RL-0012 - SNF Stabilization & Disp	6.0	5.2	4.9	(0.8)	0.4
RL-0013 - Solid Waste Stab & Disp	7.6	6.9	7.9	(0.7)	(1.0)
RL-0030 - Soil &Water Rem-Grndwtr/Vadose	11.3	11.1	9.2	(0.1)	1.9
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	1.6	1.6	1.2	(0.0)	0.4
RL-0041 - Nuc Fac D&D - RC Closure Proj	0.6	0.9	0.1	0.3	0.8
RL-0042 - Nuc Fac D&D - FFTF Proj	0.1	0.1	0.1	0.0	0.1
Subtotal	30.9	29.3	26.8	(1.6)	2.5
Fee			1.4		
Total			28.2		

Base

The unfavorable Schedule Variance (-$1.6M/-5.1%) reflects the implementation of BCR-PRC-10-011 PRC Baseline Revision 2:

- The RL-0012 negative variance (-$0.8M) is primarily due to the STP negative variance (-$0.8M) which is due to: the budgeted cost of work scheduled for the KOP work scope that was completed in FY 2009 is now catching up, creating a negative schedule variance in both the KOP Phase 4 activities and the KOP design activities (-$0.6M); and delayed decisions on: 1) the activity for the MCO contractor to tool-up; and 2) MCO processing system upgrades at 100K, pending further engineering analysis (-$0.2M). Analyses have been completed and the project is now moving out on both activities.
- The RL-0013 (-$0.7M) negative variance is due to the delay in delivery of BROKK excavator due to issues at point of origin (Sweden) and partial delivery of Kelly Klosure in support of TRU Retrieval.
- The primary contributors to the RL-0030 negative variance (-$0.1M) 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 other site remediation work scope to minimize non-productive cost. 2) Preparation of the Outer Area RI/FS, in order to coordinate with Outer Area work scope. Actions are being taken to recover the schedule, including acquiring additional resources to mitigate the slippage.
  - 100 HR-3 Operable Unit (-$0.3M) due to additional time required to incorporate comments on the treatability test plan which has also impacted the procurement of the design contract within HR-3 Field Studies and Deployment activities. The project intends to utilize additional engineering resources to recover the schedule during the design effort.
- RL-0011, RL-0040, RL-0041 and RL-0042 (+$0.1M) variances are within reporting thresholds.

The favorable Cost Variance (+$2.5M/+8.4%) reflects the implementation of BCR-PRC-10-011 PRC Baseline Revision 2:

- Primary contributors to the RL-0030 positive variance (+$1.9M) are as follows:
  - Integration & Assessments (+$0.3M) associated with under accrual of contractor cost for Environmental Database support and an inadvertent overstatement of BCWP in Remedial Decision Support. With the correction/adjustment of these issues, the remaining cost variance is not significant. Corrections/adjustments will be made in February.
  - Regulatory Decision/Closure (+$0.4M) efficiencies associated with: drilling the M-Well boreholes, as less contamination has been encountered than planned; preparation of removal action documentation; and planned work in the outer area RI/FS report. These savings will result in available funds to support other activities within the project.
  - PBS RL-30 UBS, G&A, and DD (+$1.1M) The current month cost variance is discussed in Appendix C.
- RL-0011, RL-0040 and RL-0042 variances (+$0.9M) are within reporting thresholds.
- The RL-0041 positive variance (+$0.8M) is due to:
  - 100K Area Project (Facilities and Others) (+$0.5M) due to 105KE Reactor Disposition (+$0.2M) having not incurred site preparation and obstruction removal costs, and Facilities (+$0.1M) due to efficiencies of scale, and Mission Support Contract Services (+$0.2M) being utilized less than they historically were.
  - Project Support & Services (+$0.2M) General and Administrative achieved efficient use of assigned resources.
- The RL-0012 positive variance (+$0.4M) is due to:
  - The 100K Area negative variance (-$0.1M) is the result of a point adjustment for implementation of PRC-10-011 “PRC Baseline Revision 2”
  - The STP negative variance (-$0.2M) is due to: a) cost of PNNL to complete the Settling Test analysis (-$0.1M) and b) additional engineering resources to complete the CD-1 submittal package and support the estimate for the CD-2/3 BCR (-$0.1M)
  - The Project Services & Support positive variance is (+$0.7M)
- The RL-0013 negative variance (-$1.0M) is due the fact that Project Management had a contract accrued in error (planned reversal in February). In addition, T-Plant personnel are charging to Min Safe and Base Operations accounts incorrectly. Project Manager will evaluate time cards and continue TIS corrections in February.

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	73.3	73.6	63.2	0.2	10.3	253.6	240.7	12.9
RL-0013 - MLLW Treatment	19.6	18.8	15.5	(0.8)	3.3	50.5	48.0	2.4
RL-0013 - TRU Waste	45.7	43.5	42.6	(2.1)	0.9	248.6	251.8	(3.3)
RL-0030 - Soil and Groundwater	33.6	37.7	26.9	4.1	10.7	201.9	198.8	3.1
RL-0040 - U Plant/Other D&D	76.3	72.8	57.3	(3.6)	15.5	209.8	187.4	22.4
RL-0040 - Outer Zone D&D	13.7	12.1	10.3	(1.7)	1.8	75.0	81.0	(6.0)
RL-0041 - 100K Area Remeditation	51.4	50.6	32.4	(0.7)	18.3	223.8	210.4	13.4
Subtotal	313.7	309.0	248.2	(4.6)	60.8	1,263.2	1,218.2	45.0
Management Reserve						37.0		
Fee			27.3			72.1		
Total			275.5			1,372.3		

ARRA

The CTD negative Schedule Variance (-$4.6M/-1.5%) is within reporting thresholds and reflects:

- The RL-0040 negative variance (-$5.3M) is caused by late delivery of heavy equipment in the D4 capital equipment account (-$2.6M), disposal path forward undecided for Cell 30 in the U Canyon (-$0.6M), delays with 209E (-$0.4M) due to hazard reduction issues delays in the delivery of super dump trucks for handling waste, weather delays, and initial startup learning curves for BC Control area (-$1.2M). In addition, review and approval of cultural reviews and WSCF down time for the MG-1 (-$0.4M) waste sites have delayed field sampling on four sites.
- The RL-0013 negative variance (-$2.9M) is due to the delay in delivery of ERDF transport trucks and super dumps caused by procurement and manufacturer production issues; and delays in NGR procurements and start up activities coupled with the suspension of retrieval activities in 4B Trench 11 and continued recovery actions to deal with the significant deterioration of suspect TRU boxes.
- The primary contributor to the RL-0030 positive variance (+$4.1M) is in 100-HR-3 Operable Unit (+$3.9M) attributable to the 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 workscope is representative of the CTD positive schedule variance.
- The RL-0011, and RL-0041 variances (-$0.5M) are within reporting thresholds.

The CTD favorable Cost Variance (+$60.8M/+19.7%) reflects:

- The RL-0041positive variance (+$18.3M) is due to:
  - 100K Area Project (Facilities and Others) (+$10.2M) due to efficiencies of scale for concurrent demolition(+$5.6M), K West deactivation (+$2.4M) for the debris removal campaign, utilities reroutes (+$1.5M) where procurement performance was taken but won't actually be achieved until March, 105KE Reactor Disposition (+$1.4M) for site preparation and obstruction removal, and Mission Support Contractor support (+$0.3M) where services have not been used as

extensively as planned. This is offset by Project Management (-$1.0M) where general site cleanup labor has been utilized on emerging site cleanup work scope.
  - Project Services & Support (+$7.7M) General and Administrative achieved efficient use of assigned resources.
  - Waste Sites (+$0.4M) 100-K-47/100-K-56 have achieved efficiencies in work performed.
- The RL-0040 positive variance (+$17.3M) is largely due to:
  - Favorable performance of the cold and dark teams and the sampling and characterization waste identification form teams (D4) (+$3.2M); G&A and direct distributable allocations (+$7.5M); less for Program Management than planned (+$0.6M); efficiencies at U-Canyon (D4) (+$3.9M); lower than planned costs for capital equipment (D4) (+$1.8M) offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-$1.8M), coupled with increased insulator staff and overtime to recover schedule.
  - In the waste sites area (+$2.1M), efficiencies in mobilization gained by changing to direct haul to ERDF, which reduced costs and environmental impacts associated with construction of a container transfer area, 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.
- The RL-0030 positive variance (+$10.7M) primary contributors are:
  - 100-HR-3 Operable Unit (+$2.9M) due to efficiencies experienced during installation of HDPE piping and road crossings.
  - Ramp-up and Transition (+$2.3M) due to procurement and installation of mobile offices and project staffing charges that were incorrectly charged to trailer mobilization rather than construction. These charges will be corrected in February. Additionally, accruals for the construction contractor for the four shop buildings are understated. No significant variance is anticipated at completion for this account.
  - PBS RL-30 UBS, G&A, and DD (+$1.8M) The contract to date cost variance is discussed in Appendix C.
  - Drilling (+$1.7M) due to efficiencies/savings obtained in drilling for 100-NR-2, 100-HR-3, and 200-BP-5 wells. Cost efficiencies are being obtained through an aggressive drilling schedule with savings in support personnel, faster drilling methods and the fact that the HR-3 well depths have been less than originally planned. Efficiencies in NR-2 and HR-3 are expected to continue resulting in additional positive cost variance.
  - Regulatory Decision & Closure Integration (+$1.7M) due to completing work scope more efficiently than planned, especially in the areas of multi-incremental sampling, borehole drilling, landfill characterization, and document preparation. Funds will be available to support other activities.
- The primary contributors to the positive variance (+$10.3M) in RL-0011 are:
  - Overhead allocations as discussed in Appendix C. The project is experiencing a labor rate under-run, which contributes $2M to the positive variance. This is a direct result of an applied average labor rate associated with a more junior work force charging to the project (i.e., NCO's, RCTs, etc. hired to support ARRA work scope).
  - Procurement of waste containers and metal pallets material/equipment to support the Solid Waste ready-to-serve mode, delay in receiving costs associated with waste disposition, and delayed subcontract cost associated with demolition dispersion and air modeling are also contributing to this cost variance. PFP is preparing a BCR to transfer work scope associated with the 242-Z,

2736-Z/ZB, and Balance of 234-5Z projects to ARRA which will off-set the current and projected cost underrun.

- The positive variance (+$4.2M) in RL-0013 is due to costs for MLLW treatment below plan due to efficiencies created by treating waste at ES-Clive rather than planned treatment at Perma-Fix Northwest (due to a waiver received from DOE), and the ability to send waste directly to ERDF rather than the planned off-site treatment facility; and, lower G&A and Direct Distributable cost allocations; offset by increased allocations for additional 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	91.9	91.8	90.6	(0.2)	1.2	375.9	388.5	(12.6)
RL-0012 - SNF Stabilization & Disp	119.6	119.6	120.2	(0.0)	(0.6)	571.8	573.2	(1.4)
RL-0013 - Solid Waste Stab & Disp	177.5	173.8	169.1	(3.7)	4.7	1,568.3	1,545.1	23.3
RL-0030 - Soil &Water Rem-Grndwtr/Vadose	161.0	161.2	149.0	0.2	12.2	1,202.9	1,181.1	21.8
RL-0040 - Nuc Fac D&D - Remainder Hanfrd	38.5	36.9	31.9	(1.6)	5.0	971.1	1,005.0	(33.9)
RL-0041 - Nuc Fac D&D - RC Closure Proj	12.2	12.4	11.0	0.2	1.3	335.6	329.1	6.5
RL-0042 - Nuc Fac D&D - FFTF Proj	9.0	9.0	8.5	0.0	0.5	25.0	24.1	0.9
Subtotal	609.8	604.7	580.3	(5.1)	24.4	5,050.5	5,046.1	4.5
Management Reserve						173.8		
Fee			28.9			231.9		
Total			609.2			5,456.3		

Base

The unfavorable Schedule Variance (-$5.1M/-0.8%) is within reporting thresholds and reflects:

- The RL-0013 negative variance (-$3.7M) is due to the delay in Long Term Box Storage due to inclement weather and Next Generation TRU Retrieval due to unavailability of resources to plan and execute procurements; deferral of a portion of the WESF roof upgrade pending appropriate weather conditions; deferral of WIPP close-out pending CCP availability; and W-5 waste disposal delays associated with higher priority scope at Perma-Fix Northwest.
- The RL-0040 negative variance (-$1.6M) is due to the delayed start of the Cell 30 design (D4).
- RL-0011, RL-0012, RL-0030, RL-0041 and RL-0042 variances (+$0.2M) are within reporting thresholds.

The favorable Cost Variance (+$24.4M/+4.0%) reflects:

- Various positive and negative variances contributed to the RL-0030 positive variance (+$12.2M). The following variances exceeded thresholds:
  - PBS RL-30 UBS, G&A/DD (+$2.4M) positive cost variance as discussed in Appendix C.
  - Regulatory Decision & Closure Integration (+$1.8M) due to completing work scope more efficiently than planned, especially in the areas of multi-incremental sampling, borehole drilling, landfill characterization, and document preparation. Funds will be available to support other activities.

- 100-KR-4 OU (+$1.7M) efficiencies obtained with the KR-4 Operations and Maintenance accounts, which are expected to continue throughout the fiscal year.
- Integration and Assessments (+$1.5M) primarily attributed three control accounts: Remediation Science and Technology horizontal drilling was completed for less than planned; Systematic Planning Integration has achieved efficiencies and used less subcontract resources than planned; and Sample Management and Reporting activities are being performed for less labor than planned Other efficiencies that have been achieved in Systematic Planning Integration and Sample Management and Reporting are expected to continue.
- 200-ZP-1 Operable Unit (+$1.5M) results of the following factors: 1) Interim Operations reflects significant progress and cost under runs have been achieved to date for Annual System Calibration. 2) Design of the permanent hookup of well EW-1 (C7017) was lower than planned as only minor changes were needed to an existing design. 3) Cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly, 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-NR-2 OU (+$1.4M) resulted from performing chemical treatment & maintenance scope 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.
- Project Management (+$1.0M) due to the following: 1) PRC Transition cost in FY 2009 was significantly less than planned and 2) labor underruns in FY 2010. Labor underruns are being reviewed as a potential source for funds management within the project.
- 100-HR-3 Operable Unit (+$0.9M) efficiencies experienced including project management, operations and maintenance, and field study deployments.
- GW Monitoring & Performance Assessments (-$1.5M) due to FY 2009 WSCF costs that were higher than planned and will be handled through funds management within the S&GRP project.

- The RL-0040 positive variance (+$5.0M) 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) (+$0.5M) less than expected; completed the sampling of Cell 30 with less resources than planned (+$1.0M) , Program Management utilizing less resources (+$0.5M), capital equipment (+$0.4M) and under-run in G&A and direct distributable allocations (+$2.0M).
- The positive variance (+$4.7M) in RL-0013 is attributable to lower G&A and Direct Distributables (+$3.0M); FY 2009 reduction in labor rates (2.0M); efficiencies in M/LLW treatment due to implementation of less costly treatment options; efficiencies in construction activities for the receipt and storage of Slightly Irradiated Fuel; partially offset by increased cost to deal with TRU Retrieval significantly deteriorated boxes and the 85 gallon wedge issue.
- The primary contributors to the RL-0041 positive variance (+$1.3M) are:
  - 100K Area Project (Facilities and Others) (+$1.4M) The positive cost variance is due to 105KE Reactor Core Removal (+$2.7M) work efficiency on deactivation/decontamination and enabling documents. This is offset by Facilities (-$0.9M) where the 1706KE/KEL/KER complex above-grade demolition required more resources due to its complexity and Mission Support Contractor support (-$0.4M) were services have not been used as extensively as planned.

- Project Support & Services (+$0.2M) General and Administrative achieved efficient use of assigned resources.
- Waste Sites (-$0.3M) is the result from the subcontractor being 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 (+$1.2M) 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, and a labor rate under-run. This is off-set by 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, and higher than planned overhead allocations. The project is continuing to evaluate alternative methods and identify efficiencies associated with the execution of the PRF, 242-Z and 2736Z/ZB work scope. With these efficiencies, early demolition of select Phase I ancillary facilities will be planned and executed.
- RL-0012, RL-0042 variances (-$0.1M) are within reporting thresholds.

FUNDING ANALYSIS

FY 2010 Funds vs. Spending Forecast ($M)

PBS	Project	FY 2010 Baseline Funding	FY 2010 Spending Forecast	Variance
RL-0011	Nuclear Materials Stabilization and Disposition	115.8	108.5	7.2
RL-0013	Waste and Fuels Management Project	153.5	145.5	8.0
RL-0030	Soil, Groundwater and Vadose Zone Remediation	142.9	134.4	8.5
RL-0040	Nuclear Facility D&D, Remainder of Hanford	144.3	126.2	18.1
RL-0041	Nuclear Facility D&D, River Corridor	121.5	114.9	6.5
	Total ARRA:	**677.9**	**629.6**	**48.3**
RL-0011	Nuclear Materials Stabilization and Disposition	57.1	62.9	(5.8)
RL-0012	Spent Nuclear Fuel Stabilization and Disposition	86.8	80.5	6.3
RL-0013	Waste and Fuels Management Project	108.7	98.2	10.5
RL-0030	Soil, Groundwater and Vadose Zone Remediation	177.4	154.1	23.3
RL-0040	Nuclear Facility D&D, Remainder of Hanford	25.4	20.9	4.5
RL-0041	Nuclear Facility D&D, River Corridor	20.9	18.3	2.6
RL-0042	Fast Flux Test Facility Closure	1.7	1.2	0.5
	Total Base:	**477.8**	**436.0**	**41.8**
	Combined ARRA/Base Total:	**1,155.8**	**1,065.6**	**90.2**

The negative variance in RL-0011 Base reflects the newly planned approach in the Plutonium Reclamation Facility (PRF) and continuing min-safe operations in the 2736Z/ZB vaults until the facility is demolition ready in the first quarter of FY 2011. Funds management coupled with moving work scope associated with 242-Z, 2736Z/ZB, and Balance of 234-5Z utilizing the BCR process will mitigate the variance. A BCR is being prepared to address this issue.

BASELINE CHANGE REQUESTS

In January 2010, CHPRC approved and implemented one (1) major baseline change request, BCR-PRC-10-011, "PRC Baseline, Revision 2". This change request completes Contract Deliverable C.3.1.2.2-1, "PRC Baseline", consistent with RL Letter #10-PIC-0009, 0902284A, "Conditional Approval of Baseline Change Request BCR-PRC-09-005, Revision 1, 'Plateau Remediation Contract Baseline'", dated November 20, 2009. The PRC Baseline, Revision 2, is a life-cycle change covering the period January 2010 through September 30, 2018, and includes a complete risk analysis for each project justifying the assigned management reserve for the ten-year contract period, by year, to at least the 50 percent confidence level using a quantitative risk analysis. A new basis of estimate and supporting backup documentation was also provided. Unlike all previous change requests, the PRC Baseline, Revision 2, included a revised L-4 Table, a corresponding B.4-1 Table and a work breakdown structure crosswalk between the Plateau Remediation Contract proposal and the PRC Baseline, Revision 2. While no management reserve was used in January 2010, the updated quantitative risk analysis did increase the

overall life cycle management reserve by $26,866K. The life cycle performance measurement baseline (PMB) was ***reduced*** by $10,863K. See the Format 3 Report in Appendix A and A-1 for a listing of these specific change requests and the impact on the PMB.

The primary focus in January 2010 was to complete the PRC Baseline, Revision 2, which was formally submitted to RL on February 1, 2010 (see letter # CHPRC-0902284A R4, Contract No. DE-AC06-08RL14788 –Contract Deliverable C.3.1.2.2-1, "Plateau Remediation Contract Baseline, Revision 2". The primary focus in February 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 of PRC Baseline, Revision 2, as implemented into the Earned Value Management System in January 2010 is summarized by fiscal year in the tables below (negative number represents reduction):

January 2010 Summary of Changes to Contract Price

	FY 2009	FY 2010	FY 2011	FY 2012	FYs 2009-2013	FYs 2014 - 2018
December 2009 Contract Price						
PMB	653,426	1,035,704	937,366	758,468	4,027,718	2,296,863
Mgmt Rsrv (MR)	12,358	17,399	6,025	36,757	102,496	81,438
Fee	39,712	49,689	48,987	37,863	209,709	92,463
Total	***705,496***	***1,102,792***	***992,378***	***833,088***	***4,339,923***	***2,470,764***
Change by Funding Source to Contract Price in January 2010 (1 BCR)						
PMB						
ARRA						
All ARRA WBSs	0.0	-24,399.6	19,265.2	6,743.3	1,661.6	0.0
Base						
All Base WBSs	0	-2,796	-13,128	3,757	-8,084	-4,440
Change to PMB	**0**	**-27,196**	**6,137**	**10,500**	**-6,423**	**-4,440**
MR						
ARRA						
All ARRA WBSs	-7,096	4,271	20,057	0	17,233	0
Base						
All Base WBSs	-5,262	6,030	8,218	-6,557	4,771	4,862
Change to MR	***-12,358***	***10,301***	***28,275***	***-6,557***	***22,004***	***4,862***
Fee						
ARRA						
All ARRA WBSs	0	-917	567	0	-350	0
Base						
All Base WBSs	0	0	-519	2,514	1,288	967
Change to Fee	***0***	***-917***	***48***	***2,514***	***938***	***967***
Total Change	***-12,358***	***-17,812***	***34,460***	***6,457***	***16,520***	***1,389***
January 2010 Contract Price						
PMB	653,426	1,008,508	943,503	768,968	4,021,296	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
Total	***693,138***	***1,084,980***	***1,026,838***	***839,545***	***4,356,443***	***2,472,153***

Changes to Management Reserve in January 2010

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
Management Reserve (MR) - Beginning January 2010							
ARRA	RL-0011.R1	1,987	1,393	375	0	3,755	0
	RL-0013.R1	0	0	0	0	0	0
	RL-0013.R1.2	1,335	3,400	2,393	0	7,127	0
	RL-0030.R1	526	2,040	341	0	2,907	0
	RL-0040.R1	1,916	3,645	-2,924	0	2,637	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	1,332	1,451	558	0	3,341	0
	ARRA Total	***7,096***	***11,929***	***743***	***0***	***19,767***	***0***
Base	RL-0011	806	300	319	13,500	19,341	0
	RL-0012	1,487	2,650	2,590	5,000	23,727	15,905
	RL-0013	561	225	214	6,000	14,000	33,865
	RL-0030	1,415	1,120	846	2,059	7,440	7,831
	RL-0040	971	300	295	7,548	12,006	16,094
	RL-0041	0	875	1,018	2,500	5,893	7,045
	RL-0042	22	0	0	150	322	698
	Base Total	***5,262***	***5,470***	***5,282***	***36,757***	***82,729***	***81,438***
	MR Total	***12,358***	***17,399***	***6,025***	***36,757***	***102,496***	***81,438***
Changes to Management Reserve in January 2010							
ARRA	RL-0011.R1	-1,987	307	1,625	0	-55	0
	RL-0013.R1	0	0	0	0	0	0
	RL-0013.R1.2	-1,335	3,101	3,607	0	5,373	0
	RL-0030.R1	-526	-540	3,460	0	2,394	0
	RL-0040.R1	-1,916	-1,645	5,724	0	2,163	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	-1,332	3,049	5,642	0	7,359	0
	ARRA Total	***-7,096***	***4,271***	***20,057***	***0***	***17,233***	***0***
Base	RL-0011	-806	700	1,181	-2,500	4,359	0
	RL-0012	-1,487	1,150	1,210	-1,500	-9,127	-3,705
	RL-0013	-561	775	286	-2,000	-2,500	-10,865
	RL-0030	-1,415	1,880	2,654	2,441	7,960	1,169
	RL-0040	-971	1,700	2,705	-4,048	994	7,306
	RL-0041	0	-375	-18	1,000	2,607	10,655
	RL-0042	-22	200	200	50	478	302
	Base Total	***-5,262***	***6,030***	***8,218***	***0***	***4,771***	***4,862***
	Change to MR Total	***-12,358***	***10,301***	***28,275***	***0***	***22,004***	***4,862***
Management Reserve - End of January 2010							
ARRA	RL-0011.R1	0	1,700	2,000	0	3,700	0
	RL-0013.R1	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	0	2,000	2,800	0	4,800	0
	RL-0040.R1.2	0	0	0	0	0	0
	RL-0041.R1	0	4,500	6,200	0	10,700	0
	ARRA Total	***0***	***16,200***	***20,800***	***0***	***37,000***	***0***
Base	RL-0011	0	1,000	1,500	11,000	23,700	0
	RL-0012	0	3,800	3,800	3,500	14,600	12,200
	RL-0013	0	1,000	500	4,000	11,500	23,000
	RL-0030	0	3,000	3,500	4,500	15,400	9,000
	RL-0040	0	2,000	3,000	3,500	13,000	23,400
	RL-0041	0	500	1,000	3,500	8,500	17,700
	RL-0042	0	200	200	200	800	1,000
	Base Total	***0***	***11,500***	***13,500***	***30,200***	***87,500***	***86,300***
	MR Total	***0***	***27,700***	***34,300***	***30,200***	***124,500***	***86,300***

Utilization of Management Reserve in January 2010

		FY 2009	FY 2010	FY 2011	FY 2012	FY 2009-2013	FY 2014-2018
ARRA	RL-0011.R1	0	0	0	0	0	0
	RL-0013.R1	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	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
	ARRA Total	***0***	***0***	***0***	***0***	***0***	***0***
Base	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
	Base Total	***0***	***0***	***0***	***0***	***0***	***0***
Total Utilization of MR		***0***	***0***	***0***	***0***	***0***	***0***

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 2/7/10								Planned Subcontracting*	$2,524,483,195
Contracts + Purchase Orders + Pcards								Contract-to-Date Awards =	$941,433,555
Reporting Classification	ARRA ($)	ARRA %	Non-ARRA ($)	Non-ARRA %	Total ($)	Percent of Total	Goal (%)	Balance Remaining to Award =	$1,583,049,640
								Goal Award ($)	Bal. to Goal ($)
SB	$190,513,637	61.60%	$287,445,664	45.47%	$477,959,301	50.77%	49.30%	$1,244,570,215	$766,610,914
SDB	$39,443,491	12.75%	$46,986,295	7.43%	$86,429,786	9.18%	8.20%	$207,007,622	$120,577,836
SWOB	$41,599,916	13.45%	$57,035,802	9.02%	$98,635,718	10.48%	6.50%	$164,091,408	$65,455,690
HUB	$3,093,975	1.00%	$10,342,174	1.64%	$13,436,149	1.43%	3.20%	$80,783,462	$67,347,313
VOSB	$34,157,873	11.04%	$19,676,005	3.11%	$53,833,878	5.72%	2.00%	$50,489,664	($3,344,214)
SDVO	$2,416,400	0.78%	$3,241,045	0.51%	$5,657,445	0.60%	2.00%	$50,489,664	$44,832,219
NAB	$2,052,165	0.66%	$3,797,804	0.60%	$5,849,969	0.62%	0.00%	**10-year subcontracting projection*	
Large	$71,821,788	23.22%	$227,887,360	36.05%	$299,709,148	31.84%	0.00%		
GOVT	$1,014	0.00%	$643,024	0.10%	$644,038	0.07%	0.00%	PRC clause H.20 small business (SB) requirement:	
GOVT CONT	$46,922,619	15.17%	$114,781,897	18.16%	$161,704,516	17.18%	0.00%	≥17% of Total Contract Price performed by SB	
EDUC	$25	0.00%	$19,675	0.00%	$19,700	0.00%	0.00%	Total Contract Price:	$4,515,556,411
NONPROFIT	$22,718	0.01%	$1,306,754	0.21%	$1,329,472	0.14%	0.00%	17% requirement:	$767,644,590
FOREIGN	$5,103	0.00%	$62,276	0.01%	$67,379	0.01%	0.00%	Awarded:	$477,959,301
Total	**$309,286,904**		**$632,146,651**		**$941,433,555**			Balance to Requirement:	$289,685,289

Notes:

1. Performance in FY 2010 continues to exceed goals in the Small Business, Disadvantaged Business and Woman Owned and Veteran Owned categories. As a result, contract-to-date percentages in those categories continue to exceed the full-term contact goals.
2. Over 48% 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 3.2% of the dollars arising from P-card purchases and 1.85% are 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
CONTRACT			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office (CBFO).	Ongoing