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# Monthly Performance Report

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November 2011  
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## EXECUTIVE SUMMARY

CHPRC completed a major project milestone in November, transmitting Revision 3 of the FY2013-FY2018 Performance Measurement Baseline (PMB) on schedule. The PMB comprises the technical documentation, schedule, and cost estimates that support implementation of the scope of work contained within the CHPRC contract. The plan is used to align the CHPRC contract and baseline and is the basis for future prioritizations and funding requests.



**The first of six buildings to be demolished at the PFP vault complex**

The Plutonium Finishing Plant (PFP) cleanup footprint is about to shrink as the Decommissioning and Demolition (D&D) team began demolishing the facility's six-building vault complex (more than 20,000 square feet of facilities). The demolition project marks the completion of several months' work by the PFP crews who decontaminated and decommissioned the facilities. Preparations included removing contaminated equipment from the buildings and cleaning out and removing large, sealed, glove box containers that once allowed plant employees to

handle nuclear materials safely when the plant was operating.

The Engineering, Project and Construction team continued progress on the 200 West Groundwater Treatment Facility, the last and largest Pump and Treat system slated for construction. Construction acceptance testing for the facility's S/SX transfer station is nearly complete.

Through November, the Waste & Fuels Management Project (W&FMP) team completed 225 of 256 100-gallon puck drums at T Plant; 16 were determined to be transuranic waste and 29 remain to be assayed. WFMP also completed the five-year fire tank inspection at Canister Storage Building using the diving contractor.

The Soil & Groundwater Remediation Project set a new record in November for treating the most contaminated groundwater in a month. The project treated a record 100 million gallons of groundwater, more than has been treated at the Hanford Site in a month since treatment systems began operating in the 1990s. The amount is equivalent to more than 150 Olympic-size swimming pools.



**Samples of hexavalent chromium extracted from wells at the 100 Area.**

## Focus on Safety

The November President's Zero Accident Council (PZAC) meeting was hosted by the Safety, Health, Security & Quality organization. The principal themes for the meeting were:

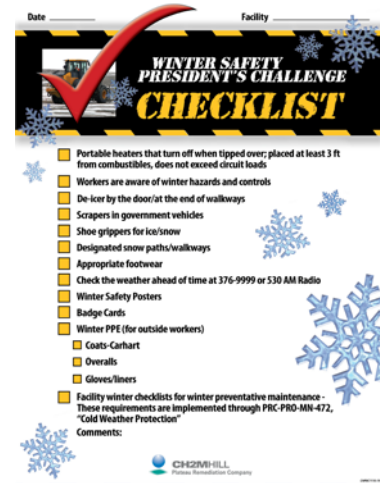
- Winter Safety 2011
- Holiday Fire Safety
- Good News Stories

The safety share for the November PZAC was a review of this year's winter safety focus. Topics included in the safety share were preparing homes and vehicles for winter hazards, proper attire to keep the winter chill away, and methods for traversing snow and ice, both by foot and by car. In addition, the safety share addressed actions needed to prepare CHPRC facilities for winter and protect occupants. Contacts for Hanford and State road conditions were also provided. The safety share was followed by an update on winter clothing purchasing requirements, safe tips for ice and snow shoveling, and guidelines to prevent holiday fires. Holiday fire prevention techniques and practices were provided to avoid common mistakes made when installing Christmas trees, hanging decorative lights, cooking meals and lighting candles.



The injury and illness performance metrics presentation brought a celebration as it was announced that there were no CHPRC Recordable or DART cases for the first time in several months, resulting in the lowest case rates of the year. The PZAC was brought to close by revealing the Winter Safety 2011 communication theme, a VPP update, and Good News Stories, which was dominated by the Soil & Groundwater Remediation Group (S&GRP). The S&GRP organization boasted reaching more than 1 million person hours without a lost work day, raising over \$5000 for coworkers in need, and recognizing veterans with a Veteran's Day celebration. Five "Thinking Target Zero" bulletins were published in November to provide information on the following topics:

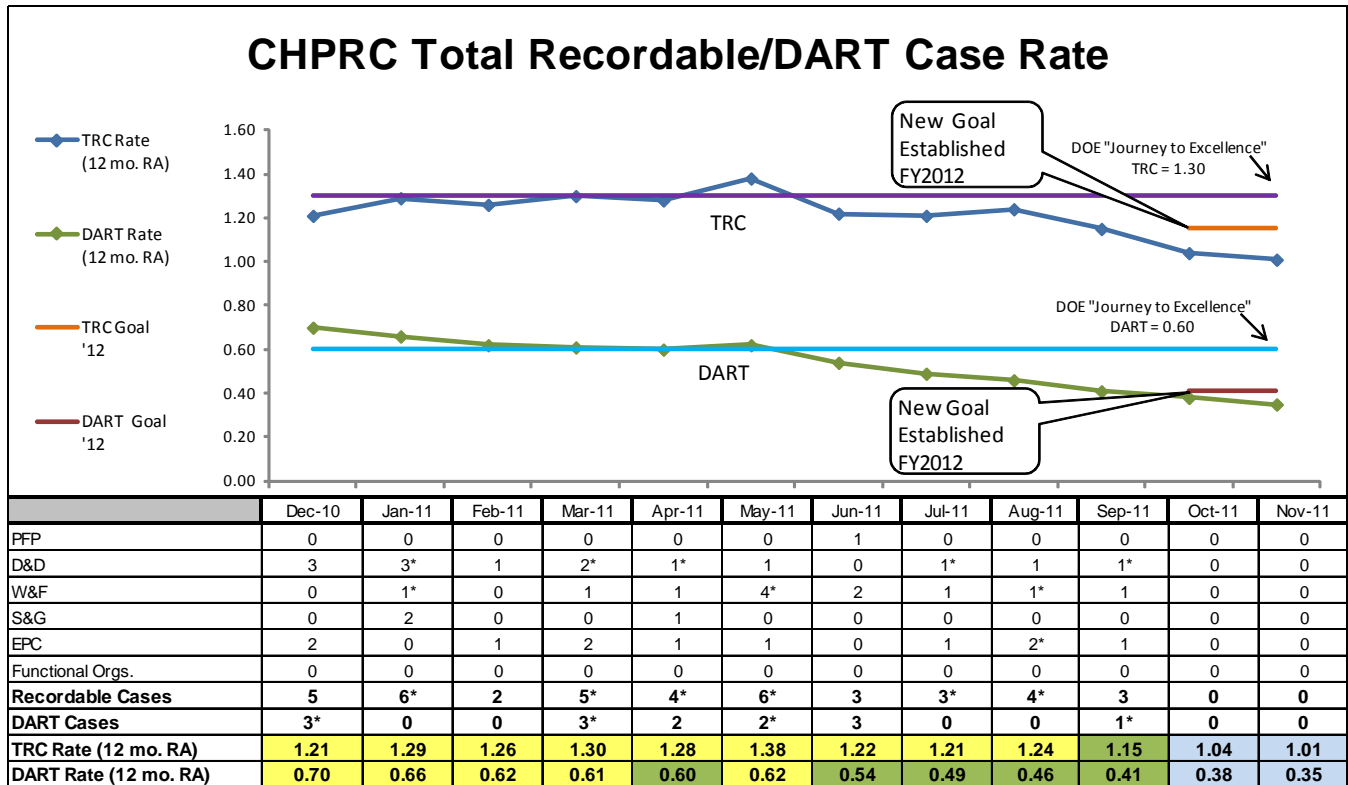
- Respecting Fire Lanes
- Hanford Fire Department Response Expectations
- Winter Facility Preparations
- Winter Ready Your Home
- Preventing Winter Hazards



Four *Weekly Safety Tailgate* briefing packages were issued in November to convey the following important topics and safety messages: diabetes prevention and management, safety signs and postings, avoiding deer and elk on Hanford roadways, personal protective equipment procurement requirements, hard hat recycling, adhering to and supporting the tenets of Mothers Against Drunk Driving, sustaining a safe attitude, re-establishing focus on safe work following a long holiday, and summaries of injuries, illnesses, and close calls.

## TARGET ZERO PERFORMANCE November 2011

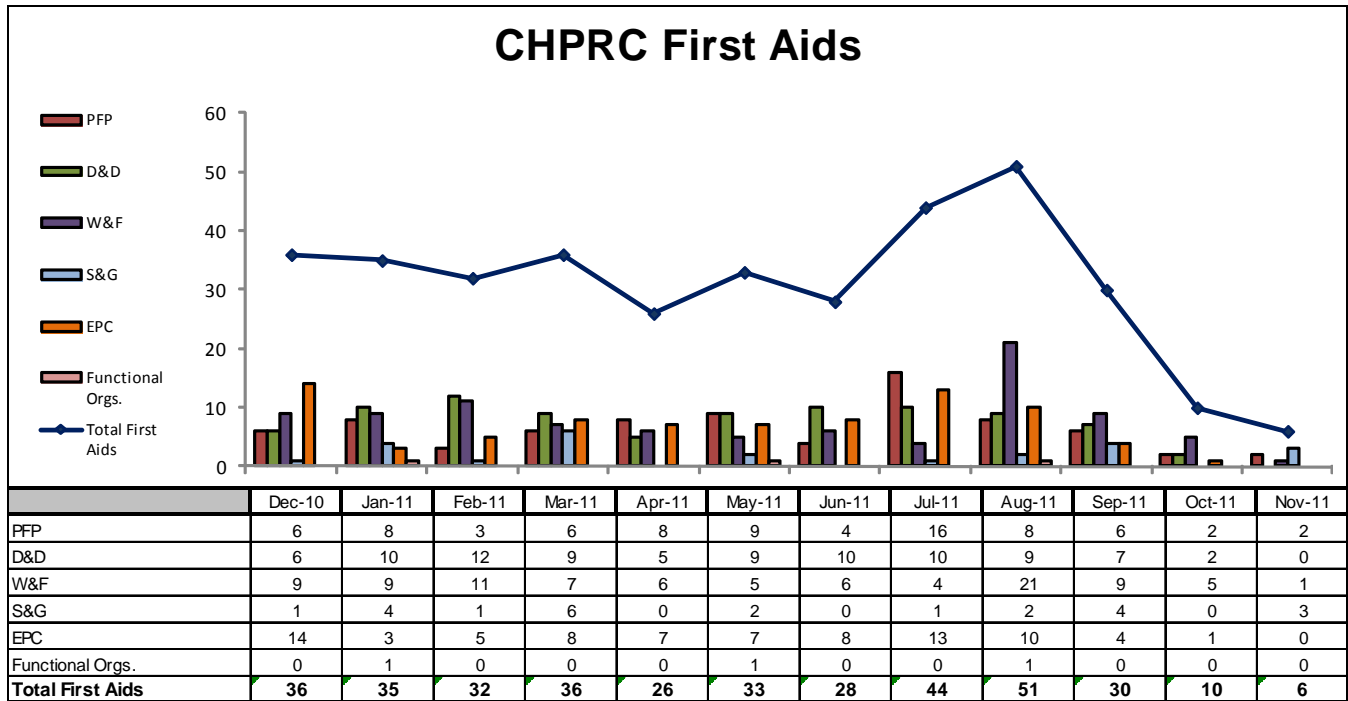
CHPRC continued focusing on integrating safety programs in all program and project areas.



**Total Recordable Injury Case (TRC) Rate** – The 12 month rolling average TRC rate of 1.01 is based upon a total of 41 recordable injuries. There were no Recordable cases in November.

**Days Away, Restricted or Transferred (DART) Workdays Case Rate** – The 12 month rolling average DART rate of 0.35 is based upon a total of 14 cases (6 Restricted, 8 Days Away Cases). There are currently two cases under review requiring additional information.

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



**First Aid Case Summary** – CHPRC reported six first-aid cases reported in November. The biggest contributors were three sprains, strains and/or pains from awkward positions and a fall on ice, two contusions from a pinch point and contact with an object, and one puncture wound from broken glass.

## KEY ACCOMPLISHMENTS

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

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

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

In Remote Mechanical A Line Room 235B, the removal of the 26” vacuum line and permanent exhaust to glovebox HA-23S was completed. Mobilization began in the 212-Z lay down yard to mock up the assembly of the two large gantry cranes that will be used to separate glovebox HA-23S.

RMA Line Room 235A-1, glovebox HA-14DC was removed from the glovebox line. Planning was finalized to reorient the glovebox in Room 235A-1 to facilitate removal from the room and eventual loading into a SLB2 container.

In RMA Line Room 235A-3 the mechanical isolation of glovebox HA-7A continued.

In RMC Line Room 230A, the internal wipe downs of gloveboxes HC-21C and HC-2 were completed and both gloveboxes were prepared for chemical decontamination.

#### **Analytical Laboratory**

Bulk Area Cleanup activities for the lab are substantially complete; all identified contaminated piping and E4 ducting systems have been removed. Chemical disposition work has now been completed. The only items remaining for disposition are to finish removal of a contaminated-equipment storage area in A-Lab. Work is now scheduled for completion by the middle of December 2011.

**Disposition PFP (234-5Z) Facility**

Process vacuum piping removal is 30 percent complete with 1,210 total feet removed.

A total of 592 feet of chemical piping transfer line has been removed.

No additional asbestos-containing material on piping was removed during the month of November. The total remains at 15,228 feet of asbestos removed to date.

**2736Z/ZB Vault Complex**

Two buildings in the 2736-ZB complex were demolished and loaded-out, 2731-ZA and 2736-ZC.

**Base****Disposition PFP Facility**

The Conditions of Approval contained in the DOE-RL Safety Evaluation Report approving the 291-Z exhaust fan Evaluation of the Safety of the Situation (ESS) last September included direction to convert the ESS into a detailed Justification for Continued Operation that included: 1) an enhanced inspection, testing, and maintenance program for the confinement ventilation system; and 2) the plan and schedule for restoring 291-Z exhaust fans to fully, unrestricted operable status. The requested JCO was submitted to RL via letter CHPRC-1104667 R1 on November 28. Troubleshooting on the canyon crane in September confirmed that the trolley cable had failed.

**Plutonium Reclamation Facility (PRF)**

Canyon entries were made to complete the replacement of the damaged trolley cable reel. A bumper guard and trolley cable roller was installed to avoid a reoccurrence of the damage to the trolley cable. After inspection, the crane was returned to service on November 8, 2011.

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

The KOP Processing System (KPS) Formal Design Review Report and Final Design Report were both finalized in the month. The CHPRC Project Review Board approved the KOP Disposition Subproject to advance to the KPS Equipment Installation & Commissioning Phase. The updated Special Packaging Authorization (SPA) Evaluation Checklist (SEC) for the KOP payload, which includes the supporting analysis showing how the package satisfies the requirements of the F-SPA, was submitted to DOE-RL for approval. The SEC was updated to respond to DOE-RL's comments.

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

Completed disposition of 60.5m<sup>3</sup> of ARRA funded mixed and/or low-level waste (M/LLW).

**TRU Retrieval**

Completed three ERDF Roll-Off/Roll-On waste shipments to the Environmental Restoration Disposal Facility (ERDF) from burial ground 12B.

Remediated High Contamination Area (HCA) in burial ground 4B to the point of final painting activities.

**TRU Repackaging**

Continuing 2404WB Decontamination work.

Completed repack of two Hanford Engineering Development Laboratory (HEDL) sludge drums in Transuranic Waste (TRU) Glovebox.

### **T-Plant Layup Activities**

Completed compaction efforts for 442 empty parent drums in 221-T Canyon.

### **Base**

#### **Project Management**

Completed W&FMP FY2013-FY2018 Performance Measurement Baseline (PMB) submittal.

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

Installed hose reel to wagon in support of 282B sampling.

Performed beryllium sampling on the electrical switchgear (awaiting results).

Replaced block heaters on 225B-DG-1 (cold weather protection).

#### **Central Waste Complex (CWC)**

Shipped 27 TRU-Project dropout M/LLW waste packages from the CWC to Perma-Fix Northwest (PFNW) for final disposition.

Received 28 SWBs and 24 drums of transuranic waste.

#### **Liquid Effluent Facilities**

Received four tankers (calendar year [CY] 484k gallons).

Treated effluent to State-Approved Land Disposal Site: 1M gallons (CY 17M).

200A Treated Effluent Disposal Facility (TEDF) discharged 973k gallons (CY 13M).

Received Environmental Restoration Disposal Facility (ERDF) leachate (111k gallons) at Liquid Effluent Retention Facility (LERF) Basin 44 (CY 1.8M).

Continued operating the 310 Retention Transfer System (RTS): 24 batches; CY 777k gallons

Shipped 40 powder drums from Basin 44 to ERDF.

### **RL-0030 Soil and Groundwater Remediation**

#### **Base**

#### **GW Remedy Implementation**

Continued working through the remaining construction punch-list items. Completed Radiological Building site work and concrete apron. Completed BIO Building and BIO Pad floor penetrating sealant installation and all process system and influent piping system flush.

Injections Wells: ATP complete.

#### **Operations**

#### **Integration and Assessments**

Chaired an integrated River Corridor/Central Plateau Senior Management (RL and contractors) meeting that provided direction on the 300 Area Proposed Plan, the path forward to evaluate the status of work remaining in the River Corridor following final ROD approval, and pending policy for coal ash sites.

#### **Technical Integration**

DOE O 435.1 Assessments: The Composite Analysis and Integrated Disposal Facility annual status reports have had internal draft review comments incorporated and the decisional drafts are in technical publications.



Submitted the Tier 2 ecological Preliminary Remediation Goal (PRG) report (CHPRC-01311) to clearance, following incorporation of DOE comments.

### **River Corridor**

Received DOE RI/FS Report comments starting in early November, with the final comments received on November 23, 2011.

Delivered the Decisional Draft Proposed Plan to RL on November 14, 2011 (TPA M-015-72-T01 due December 31, 2011).

### **Central Plateau**

Construction of the S-SX extraction system (Ojeda) continued. Transfer building ATP was performed and a final punch-list issued. All mechanical and electrical rack were fabricated and placed at the well heads and are undergoing ATP placement and testing of the above-ground pipelines was completed. All 3 extraction wells are complete.

Drilling/sampling of 23 permanent extraction and/or injection wells is complete. Wells C8068, C8069, and C8386 are at depths of 482 ft (TD), 524 (TD), and 447.5 ft.

RL transmitted the Draft A 200-IS-1 OU RFI/CMS & RI/FS Work Plan to the Regulatory Agencies on November 10, 2011 (TPA M-015-90 due December 31, 2011).

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

### **ARRA**

#### **U Canyon Demolition and Cell 30 Disposition**

Completed demobilization of the 221U Canyon grout batch plant and grout pump equipment.

#### **209E Project**

Completed pre-demolition work activities.

Completed demolition of the Administrative Building, Storage Area, Equipment Room, Change Room and Mix Room.

Completed removal of the highly contaminated Poly sheets from the Mix Room and the highly contaminated shroud and accumulated contamination from the Mix Room.

#### **200W Project**

Continue demobilization. All ERDF containers have been shipped.

### **Base**

#### **Outer Zone D&D**

Completed Annual Surveillance of PUREX facilities. Removed/Rebuilt/and Replaced two PUREX vacuum pumps to give us three efficient pumps.

Completed repairs to PUREX exhaust fans to ensure redundancy was maintained.

The RARA team in cooperation with Ground Water continued working annual surveillance of the BC crib area.

Completed 26 of 27 scheduled PMs and surveillances.

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

Continued demolition of 190KW Main Pump House.

Continued load-out of 183.2KE Basin sediment.

Continued with asbestos abatement of 105KE tunnel.

Continued with erecting of scaffolding and demolition preparation of 183.7 Structure.

**Base**

The conceptual design/construction specifications for the 105KE Reactor Disposition ISS SSE were completed. Initial review of the conceptual design began in November.

The Verification Sampling Instructions (VSI) and Sampling for Area AA Zone 3 was approved. Backfill for Area AA Zone 3 was completed as anticipated in November.

The Area AA Zone 4 VSI was completed in November. The backfill for Area AA Zone 4 was also completed as anticipated in November.

Area AG Zone 2 Modification of Road for JLG was completed. This is in preparation for work starting on 105KE Reactor building for temporary reactor sealing's.

## MAJOR ISSUES

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

**Issue** - On August 29, Exhaust Fan #1 in the 291-Z facility catastrophically failed and caused a small fire when a hot bearing oil made contact with the drive belt. The facility implemented required casualty response actions and the fire was extinguished. Normal ventilation for the facility was shutdown and backup steam turbine driven exhaust fans were placed in service. Per Technical Safety Requirement (TSR), the facility was placed in a "Terminate Activities" mode which halted all D&D activities.

**Corrective Actions** - A thorough evaluation of the 291-Z exhaust fans was performed. The evaluation identified additional mechanical issues with most of the remaining exhaust fans. A positive Unreviewed Safety Question (USQ) determination was declared and Evaluation of Safety of the Situation (ESS) was prepared and submitted to RL for approval. The ESS was approved by RL on September 15, 2011 (Letter #11-SED-0165). Normal ventilation fans were restarted and the Terminate Activities condition was exited. Normal D&D activities were authorized to commence. A JCO was submitted to RL via letter CHPRC-1104667 R1 on November 28 as directed by the ESS. This is the final report on this issue.

**Issue** - On Sunday, July 24, 2011, the trolley on the PRF canyon crane failed during movement to retrieve the counter balance to install the Tank 23 strongback. A loud noise was heard from inside the canyon when the crane motion switch was moved to either the east or west directions.

**Corrective Actions** - Canyon entries were made to complete the replacement of the damaged trolley cable reel. A bumper guard and trolley cable roller was installed to avoid a reoccurrence of the damage to the trolley cable. After inspection, the crane was returned to service on November 8, 2011. This is the final report on this issue.

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

No major issues to report this month.

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

No major issues to report this month.

**RL-0030 Soil and Groundwater Remediation**

No major issues to report this month.

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

**Issue:** The final end state of 6652L needs to be provided by RL so that the planning on how to proceed can be started. This is specifically in regards to the significant amount of asbestos which is left in the facility.

**Corrective Action:** Definition of end state/regulatory agreements is required in writing.

**Status:** Work on hold until end state decision can be made, which also impacts the estimate and schedule for the project.

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

**Issue** – RL-0041 Waste Site Remediation will probably not be able to complete the remediation work scope tied to waste sites 100-K-57 and 100-K-64 by December 31, 2012. The sites are located in an area of extreme cultural sensitivity. The inability to complete this work by December 31, 2012, is being driven by the lack of an approved cultural resources mitigation action plan.

**Corrective Action** – Move these waste sites from TPA Phase 1 to TPA Phase 3.

**Status** – CHPRC drafted a TPA change package for RL to present to EPA for approval that will move these waste sites from TPA Phase 1 to TPA Phase 3. RL presented the change package to EPA, but EPA is not inclined to move the sites into a later TPA Phase.

**RL-0042 Fast Flux Test Facility Closure**

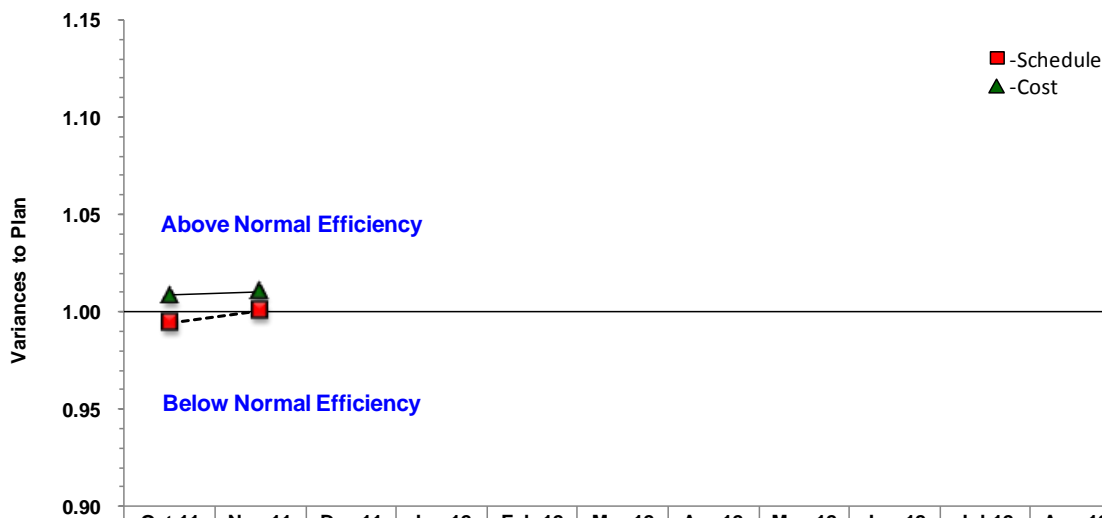
**Issue** – Roof leaks have developed that require repairs beyond normal patches.

**Corrective Action** – Allocation of funds was approved to pursue needed major repairs for the roofs.

**Status** – Repairs continued in November.

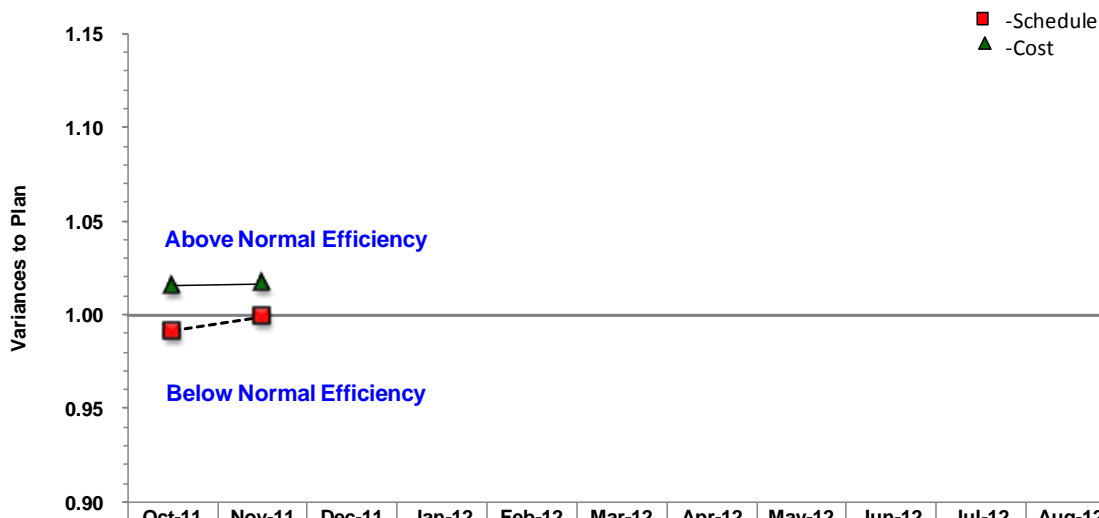
## EARNED VALUE MANAGEMENT

### Schedule and Cost Performance - ARRA and Base



	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12
MONTHLY SPI	12.97	1.49										
MONTHLY CPI	0.84	1.14										
CTD SPI	0.99	1.00										
CTD CPI	1.01	1.01										

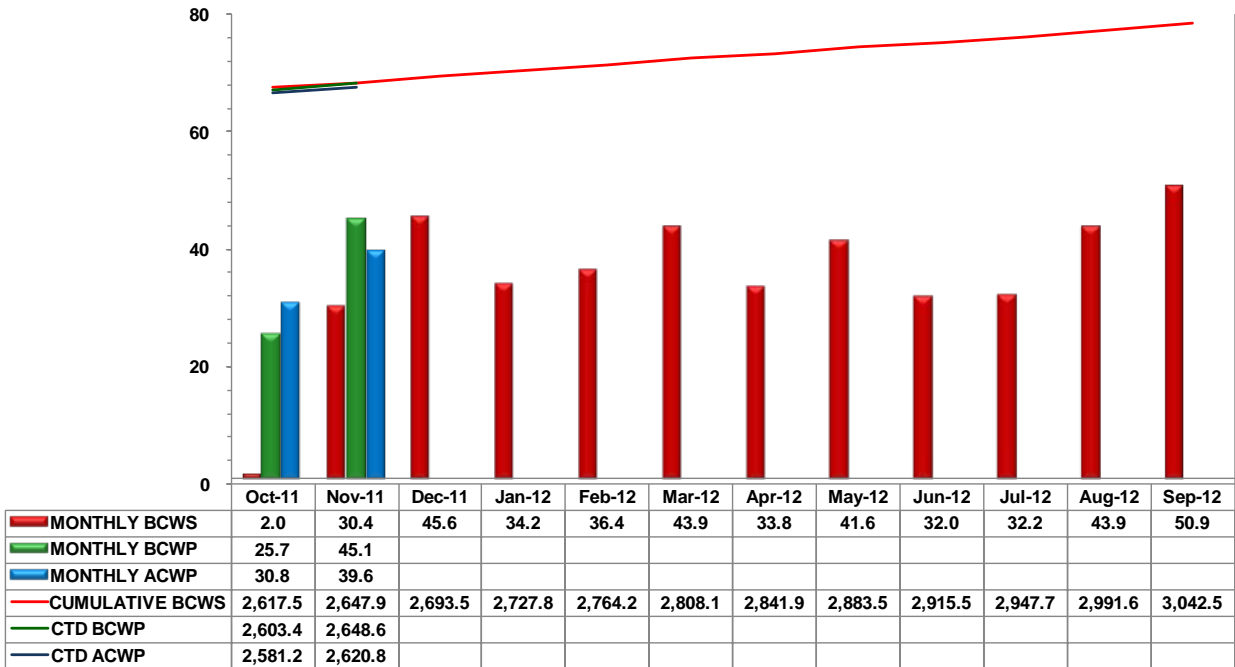
### Schedule and Cost Performance - ARRA



	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12
MONTHLY SPI	(0.03)	2.78										
MONTHLY CPI	0.06	1.09										
CTD SPI	0.99	1.00										
CTD CPI	1.02	1.02										

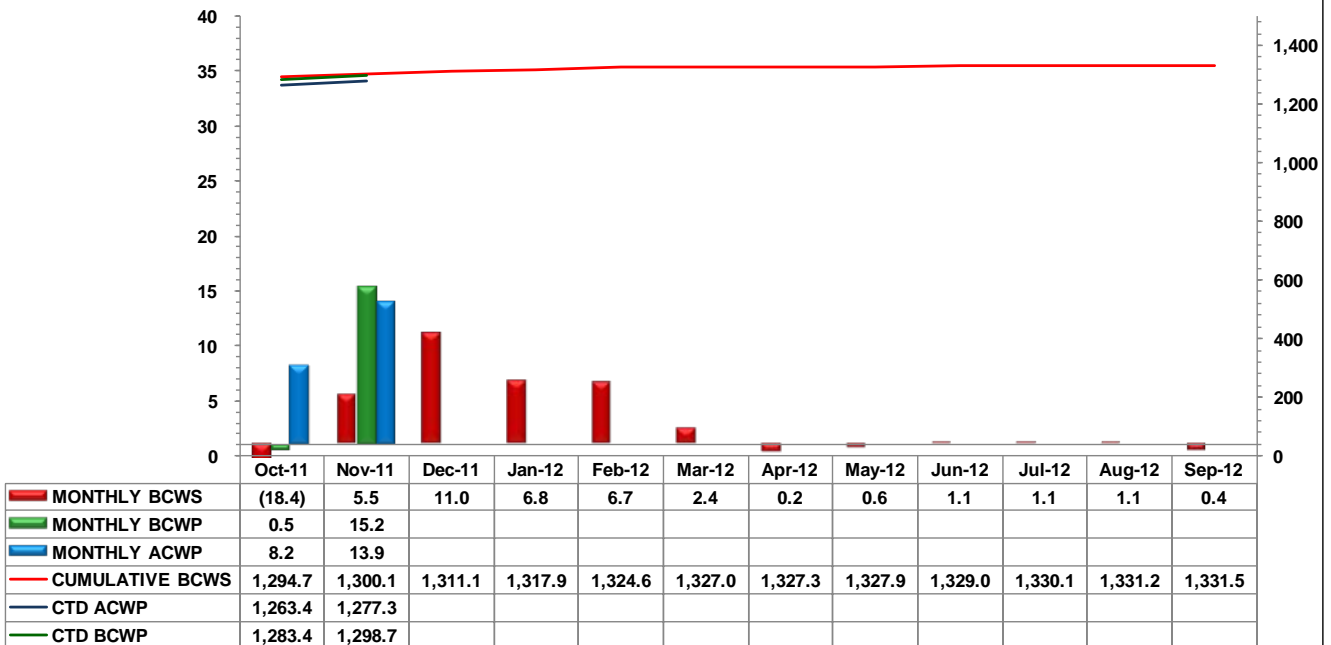
### Schedule and Cost Performance - ARRA and Base

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



### Schedule and Cost Performance - ARRA

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



## Performance Analysis – November

## ARRA Performance by PBS

	\$M				
	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - PFP D&D	9.6	10.5	9.6	0.9	0.9
RL-0013 - MLLW Treatment	(1.1)	0.7	0.9	1.8	(0.1)
RL-0013 - TRU Waste	0.7	0.8	0.9	0.1	(0.1)
RL-0030 - GW Capital Asset	0.0	0.0	(0.6)	0.0	0.6
RL-0030 - GW Operations	0.0	0.0	0.2	0.0	(0.2)
RL-0040 - U Plant/Other D&D	(0.1)	0.8	1.7	1.0	(0.9)
RL-0040 - Outer Zone D&D	(4.8)	(0.4)	0.1	4.4	(0.5)
RL-0041 - 100K Area Remediation	1.2	2.7	1.1	1.5	1.7
<b>Total</b>	<b>5.5</b>	<b>15.2</b>	<b>13.9</b>	<b>9.7</b>	<b>1.3</b>

**ARRA**

The Current Month favorable Schedule Variance: (+\$9.7M) reflects:

- The RL-0011 positive variance (+\$0.9M) is primarily a result of a point adjustment of BCWS/BCWP following implementation of BCR-PRC-12-001R0, *FY2012-FY2018 Lifecycle Update, PRC Baseline Revision 3*. Partially offset by RMA/RMC schedule delays resulting from unavailable resources continuing to support higher priority work scope that is taking longer than expected.
- The RL-0013 positive variance (+\$1.9M) reflects the following subproject performance:
  - RL-0013 MLLW Treatment (+\$1.8M) and RL-0013 TRU Waste (+\$0.1M) positive variances is primarily due to the implementation of the Rev 3 PMB which rephased MLLW treatment of TRU Retrieval dropouts (to out years), coupled with schedule recovery for TRU Retrieval Layup.
- The RL-0030 variance (+\$0.0M) is within reporting thresholds.
- The RL-0040 positive variance (+\$5.4M) that reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$1.0M) The positive variance is within reporting threshold.
  - ARRA RL-0040.R1.2 Outer Zone D&D (+\$4.4M) The positive variance is due to the implementation of Rev. 3 BCR this month.
- The RL-0041 positive variance (+\$1.5M) is due to the following:
  - Waste Sites (+\$0.0M) The positive variance is within reporting thresholds.
  - 100K Area Project Facilities and Others (+\$1.5M) The positive variance is due to progress being accomplished on the demolition of 190KW based on previous experience with the demolition of

the 190KE structure. In addition, the KW Annex demolition was accelerated due to a change in the method of performance.

The Current Month favorable Cost Variance (+\$1.3M) is within reporting thresholds and reflects:

- The RL-0011 positive variance (+\$0.9M) is due to the following:
  - Primarily results from the PMB Offset processed this period, which increased BCWS and BCWP on adjusted FY2011 activities. This is offset by the transfer of prior period costs associated with extended ARRA work scope from base-funded work packages, recognized inefficiencies, higher use of MSA brokered craft, and the extended use of resources and overtime to complete more complex work scope.
- The RL-0013 negative variance (-\$0.2M) is due to the following subproject performance:
  - RL-0013 MLLW Treatment (-\$0.1M) and RL-0013 TRU Waste (-\$0.1M) negative variances are primarily due to additional effort required to complete layup activities coupled with start-up anomalies which will require corrections from ARRA to base-funded work scope.
- The RL-0030 positive variance (+\$0.4M) that exceed the reporting thresholds reflect the following subproject performance:
  - ARRA RL-0030.R1.1 GW Capital Asset (+\$0.6M) is within reporting thresholds and is due to the following:
    - 200-ZP-1 OU (+\$0.6M) Due to closeout costs on contracts credit value based on actual being less than accrual and credits from contractors.
  - ARRA RL-0030.R1.2 GW Operations (-\$0.2M) The negative variance is within reporting thresholds and due to:
    - 200-ZP-1 OU (-\$0.2M) Due to contract closeout costs during the month.
- The RL-0040 negative variance (-\$1.4M) that reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.9M) and ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.5M) variances are within reporting thresholds.
- The RL-0041 positive variance (+\$1.7M) is due to the following:
  - Waste Sites (+\$0.2M) The positive variance is within reporting thresholds.
  - 100K Area Project Facilities and Others (+\$1.5M) The positive cost variance is due to less resources being utilized for 190KW than planned.

## Base Performance by PBS

	\$M				
	Current Period				
	Budgeted Cost		Actual Cost	Variance	
	BCWS	BCWP	ACWP	Schedule	Cost
RL-0011 - Nuclear Materials Stab & Disp PFP	2.8	3.1	(0.1)	0.3	3.2
RL-0012 - SNF Stabilization & Disposition	3.8	5.9	7.6	2.1	(1.7)
RL-0013 - Solid Waste Stab & Disposition	6.1	6.2	5.4	0.0	0.8
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	9.7	11.5	11.3	1.8	0.1
RL-0040 - Nuc Fac D&D - Remainder	0.8	0.9	0.8	0.1	0.1
RL-0041 - Nuc Fac D&D - RC Closure Project	1.6	2.3	0.6	0.7	1.7
RL-0042 - Nuc Fac D&D - FFTF Project	0.1	0.1	0.1	0.0	0.1
<b>Total</b>	<b>24.9</b>	<b>29.9</b>	<b>25.7</b>	<b>5.0</b>	<b>4.2</b>

### Base

The Current Month favorable Schedule Variance (+\$5.0M) reflects:

- The RL-0011 positive variance (+\$0.3M) is primarily a result of adjusted BCWS/BCWP following implementation of BCR-PRC-12-001R0, *FY2012-FY2018 Lifecycle Update, PRC Baseline Revision 3*. This is partially offset by PRF schedule delays resulting from unavailable resources continuing to support higher priority work scope.
- The RL-0012 positive variance (+\$2.1M) is primarily due to the point adjustments related to implementation of PMB-3 (BCR-PRC-12-001R0) in November. Prepared for a December implementation, with the eventual implementation in November a larger point adjustment resulted.
- The RL-0013 positive variance (+\$0.0M) is within reporting thresholds.
- The RL-0030 positive variance (+\$1.8M) The primary contributors that exceed the reporting thresholds reflect the following subproject performance:
  - RL-0030.1 RL 30 Operations (+\$1.5M) positive variance is due to the following:
    - 100 NR-2 Operable Unit (+\$0.7M) The primary drivers to the variance are barrier expansion work being planned in FY13 that is being performed this year and a point adjustment for the implementation of BCR-PRC-12-001, PMB Rev3 which adjusted for RD/RA work that was re-planned into FY13.
    - Regulatory Decisions & Closure Integration (+\$0.4M) Is due to the point adjustment as the result of implementing BCR-PRC-12-001, PMB Rev 3. The BCR re-planned CERCLA documents into the out years due to funding.
  - RL-0030.C1 GW Remedy Implementation (+\$0.4M) positive variance is due to the following:
    - 200 ZP-1 Operable Unit (+\$0.6M) The overall Sludge Stabilization System is behind schedule. However, performance taken in November was for BCWS planned in prior months therefore resulting in a current month positive schedule variance. As additional work is completed the overall contract to date behind schedule position will improve.



- The RL-0040 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0041 positive variance (+\$0.7M) is due the following:
  - Waste Sites (+\$0.9M) The positive variance is within reporting threshold.
  - 100K Area Project Facilities and Others (-\$0.2M) The negative variance is within reporting threshold.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The Current Month favorable Cost Variance (+\$4.2M) reflects:

- The RL-0011 positive variance (+\$3.2M) primarily results from the PMB Offset processed this period, which increased BCWS and BCWP on adjusted FY2011 PRF activities. This is offset by the transfer of prior period costs associated with extended ARRA work scope from base-funded work packages. Without the adjustment, there is a favorable variance of \$0.4M.
- The RL-0012 negative variance (-\$1.7M) is primarily due to the point adjustments related to implementation of PMB-3 (BCR-PRC-12-001R0) in November. Prepared for a December implementation, with the eventual implementation in November a larger point adjustment resulted.
- The RL-0013 positive variance (+\$0.8M) is due to a correction in workforce restructuring allocation, resources deferred to higher priority layup activities coupled with start-up anomalies which will require corrections from ARRA to base-funded work scope.
- The RL-0030 positive variance (+\$0.1M) The primary contributors that exceed the reporting thresholds reflect the following subproject performance:
  - RL-0030.01 RL 30 Operations (+\$2.5M) The positive variance is due to the following:
    - GW Monitoring & Performance Assessments (+\$0.3M) A contract accrual for surface geophysical logging was not made as the contract had been incorrectly coded as complete in passport. The coding has been corrected and an accrual will be made in December.
    - 100 NR-2 Operable Unit (+\$0.7M) Performing the accelerated expansion barrier work scope more efficiently than expected and the impact of the point adjustment as a result of the implementation of BCR-PRC-1-001, PMB Rev3 (de-blending resources and other rate impacts associated with the expansion barrier work scope).
    - 100 HR-3 Operable Unit (+\$0.4M) Is due to S-SX construction activities. Total UP-1 work scope is expected to be completed at or near total contract budget.
    - Regulatory Decisions and Closure Integration (+\$0.3M) Result of completing IS-1 and SW-2 work plans more efficiently than planned.
    - 200-ZP-1 Operable Unit (+\$0.3M) Cost for performing general operating and maintenance and minor modification activities for the interim treatment facility were significantly lower than planned as the system has been running very smoothly.
  - RL-0030.C1 GW Remedy Implementation (-\$2.4M) The negative variance is due to:
    - 200-ZP-1 Operable Unit (+\$0.3M) FY year-end contract changes caused accrual issues in October. The November accrual covers both months and resulted in a negative cost variance for the period.
- The RL-0040 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0041 positive variance (+\$1.7M) is primarily due to the following:

- Waste Sites (+\$1.1M) The positive cost variance is due to subcontracts under accrued for the month.
- 100K Area Project Facilities and Others (+\$0.6M) The positive variance is within reporting thresholds.
- The RL-0042 positive variance (+\$0.1M) is within reporting thresholds. The variance reflects reduction in surveillance and maintenance requirements.

## 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	271.5	270.3	277.2	(1.2)	(6.9)	293.6	299.3	(5.7)
RL-0013 - MLLW Treatment	47.3	47.7	42.4	0.4	5.2	47.7	42.9	4.8
RL-0013 - TRU Waste	256.0	255.5	254.7	(0.5)	0.8	256.7	255.0	1.7
RL-0030 - GW Capital Asset	175.0	175.0	174.4	0.0	0.6	175.0	174.4	0.6
RL-0030 - GW Operations	92.1	92.1	89.3	(0.0)	2.9	92.1	89.3	2.9
RL-0040 - U Plant/Other D&D	198.3	197.4	191.2	(0.9)	6.2	199.4	192.4	7.0
RL-0040 - Outer Zone D&D	84.3	84.3	71.7	0.0	12.6	87.3	75.1	12.2
RL-0041 - 100K Area Remediation	175.6	176.4	176.4	0.8	(0.1)	179.7	181.7	(1.9)
<b>Total</b>	<b>1,300.1</b>	<b>1,298.7</b>	<b>1,277.3</b>	<b>(1.5)</b>	<b>21.3</b>	<b>1,331.5</b>	<b>1,309.9</b>	<b>21.6</b>

### ARRA

The CTD unfavorable Schedule Variance (-\$1.5M/-0.1%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$1.2M) is within reporting thresholds.
- The RL-0013 negative variance (-\$0.1M) is within reporting thresholds and due to the following subprojects:
  - RL-0013 MLLW Treatment positive variance (+\$0.4M) and RL-0013 TRU Waste negative variance (-\$0.5M) is primarily due to early completion of MLLW returns is offset by delays in Layup activities.
- The RL-0030 positive variance (+\$0.0M) is due to the following subproject performance:
  - RL-0030.R1.1 GW Capital Asset (+\$0.0M) Scope is complete. The variance is within threshold.
  - RL-0030.R1.2 GW Operations (-\$0.0M) Scope is complete. The variance is within threshold.
- The RL-0040 negative variance (-\$0.9M) primary contributors that exceed the reporting thresholds are as follows:
  - RL-0040.R1.1 U Plant/Other D&D (-\$0.9M) The negative variance is due to delays with the 209E Project.
  - RL-0040.R1.2 Outer Zone D&D (+\$0.0M) The positive variance is within reporting thresholds.
- The RL-0041 positive variance (+\$0.8M) is within reporting thresholds and is due to the following:
  - Waste Sites (+\$0.0M) The positive variance is within reporting thresholds.

- 100K Area Project (+\$0.8M) The positive variance is due to progress being accomplished on the demolition of 190KW based on previous experience with the demolition of the 190KE structure. In addition, the KW Annex was accelerated due to work stoppage in the Basin which allowed resources to be diverted to the Annex.

The CTD favorable cost variance (+\$21.3M/+1.6%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$6.9M) is within reporting thresholds.
- The RL-0013 positive variance (+\$6.0M) reflects the following subproject performance:
  - RL-0013 MLLW Treatment (+\$5.2M) and TRU Waste (+\$0.8M) positive variances is due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T Plant and WRAP, Mixed Low Level Waste (MLLW) efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PFNW due to a waiver received from the Department of Energy (DOE), Environmental Restoration Disposal Facility (ERDF) negotiated rate reduction with vendor for waste containers, decreased operations costs at Low Level Burial Grounds (LLBG), efficiencies in Large Type A waste container shipments to PFNW and in Mixed Waste Disposal Trenches (MWDT) upgrades, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TFRCS), and increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures.
- The RL-0030 positive variance (+\$3.5M) reflects the following subproject performance:
  - RL-0030.R1.1 GW Capital Asset (+\$0.6M) positive variance is within reporting thresholds.
  - RL-0030.R1.2 GW Operations (+\$2.9M) The positive variance is due to the following:
    - Drilling (+\$2.4M) The positive cost variance is due to efficiencies and savings obtained in drilling for 100-NR-2 and 200-BP-5 wells. Cost efficiencies have been obtained through an aggressive drilling schedule with savings in support personnel and faster drilling methods. Well decommissionings have also been completed for less than planned.
    - Regulatory Decision and Closure Integration (+\$1.7M) The positive variance is due to completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging), and borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support).
    - Ramp-up and Transition (-\$1.8M) The negative variance was driven by increased Project Services Distribution to RL-0030.
    - PBS RL-0030 UBS, G&A and DD (+\$0.5M) is within reporting thresholds.
- The RL-0040 positive variance (+\$18.8M) reflects the following subproject performance:
  - ARRA RL-0040.R1.1 U Plant/Other D&D (+\$6.2M) The positive variance is due to several factors including the favorable performance of the Cold and Dark and Sampling and Characterization/Waste Identification Form teams (D4) (+\$4.2M); overhead allocations (+\$11.5M), less than anticipated resources for Program Management (+\$2.4M) and C-3 Sampling (+\$0.7M); lower than planned costs for capital equipment (D4) (+\$3.0M), and less asbestos abatement required for 200W buildings (+\$3.5M) and minor accounts not within threshold (+0.2M). This is offset by increased material and equipment costs, increased use of masks and

respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$8.2M), coupled with increased insulator staff and the use of overtime to recover schedule, 200E Administration (-\$1.7M) and 209E Project delays (-\$4.9M), less resources required at U Canyon (D4) (-1.1M), and Usage Based Services higher than planned (-\$3.4M).

- ARRA RL-0040.R1.2 Outer Zone D&D (+\$12.6M) The favorable cost variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D (+\$7.0M), and Outer Area waste sites (+\$6.7M). The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated.
- The RL-0041 negative variance (-\$0.1M) is due to the following:
  - Waste Sites (+\$8.8M) – The positive variance is due to Confirmatory Sampling No Action (CSNA) sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost.
  - 100K Area Project (-\$8.9M) – The negative variance is due to numerous design changes and additional punch list items in the Utilities Reroute project; this has also resulted in the project utilizing more vehicles and equipment than was originally planned as well as the Project Management costs to rise due to the corresponding increases for both labor and materials.

## Base Performance by PBS

	\$M								
	Contract to Date					Contract Period			
	Budgeted Cost		Actual Cost	Variance				Variance	
	BCWS	BCWP	ACWP	Schedule	Cost	BAC	EAC		
RL-0011 - Nuclear Materials Stab & Disp PFP	162.5	161.9	164.6	(0.6)	(2.7)	595.6	597.2	(1.6)	
RL-0012 - SNF Stabilization & Disposition	260.2	261.8	262.3	1.7	(0.5)	625.6	624.7	0.9	
RL-0013 - Solid Waste Stab & Disposition	325.2	324.5	331.7	(0.7)	(7.1)	1,523.8	1,530.8	(7.0)	
RL-0030 - Soil & Water Rem-Grndwtr/Vadose	437.3	436.4	445.2	(0.8)	(8.8)	1,231.2	1,243.5	(12.3)	
RL-0040 - Nuc Fac D&D - Remainder	70.1	70.2	62.1	0.1	8.1	683.5	667.6	15.9	
RL-0041 - Nuc Fac D&D - RC Closure Project	80.2	82.7	66.7	2.5	16.0	312.8	301.4	11.4	
RL-0042 - Nuc Fac D&D - FFTF Project	12.3	12.3	10.9	0.0	1.3	25.4	24.1	1.3	
<b>Total</b>	<b>1,347.8</b>	<b>1,349.9</b>	<b>1,343.4</b>	<b>2.1</b>	<b>6.5</b>	<b>4,997.9</b>	<b>4,989.2</b>	<b>8.7</b>	

### Base

The CTD favorable Schedule Variance (+\$2.1M/-0.2%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$0.6M) is within reporting thresholds.
- The RL-0012 positive variance (+\$1.7M) the combined 100K and STP variances are within reporting thresholds.

- The RL-0013 negative variance (-\$0.7M) is within reporting threshold. The negative variance is due to Canister Storage Building (CSB) engineering activities delayed due to resource availability (assigned to higher priority activities).
- The RL-0030 negative variance (-\$0.8M) reflects the following subproject performance:
  - RL-0030.01 RL 30 Operations (+\$1.9M) The positive variance is due to:
    - 100 NR-2 Operable Unit (+\$2.5M) The positive variance has resulted from performing barrier expansion and sampling support that was planned in FY2013, being performed in FY2011 and FY2012.
  - RL-0030.C1 GW Remedy Implementation (-\$2.7M) The negative variance is within reporting threshold.
    - 200 ZP-1 Operable Unit (-\$2.7M) The negative variance is due to delays associated with Sludge Stabilization System subcontractor submittals, fair cost estimates, award of contracts and design changes.
- The RL-0040 positive variance (+\$0.1M) is within reporting thresholds.
- The RL-0041 positive variance (+\$2.5M) is due to the following:
  - Waste Sites (+\$2.3M) The positive variance is due to CSNA sites that were completed ahead of schedule partially offset by delays related to demolition of the 105KE Fuel Storage Basin discharge chute and the 100K Area utility switchover.
  - 100K Area Project (+\$0.2M) The positive variance is within reporting thresholds.
- The RL-0042 positive variance (+\$0.0M) is within reporting thresholds.

The CTD favorable Cost Variance (+\$6.5M/+0.5%) is within reporting thresholds and reflects:

- The RL-0011 negative variance (-\$2.7M) is within reporting thresholds.
- The RL-0012 negative variance (-\$0.5M) The combined 100K and STP variances are within reporting thresholds.
- The RL-0013 negative variance (-\$7.1M) is due to:
  - MSA assessments above plan, TRU Retrieval additional resources to deal with deteriorated containers and drum wedge issue, FY2009 WRAP facility increased levels of corrective and preventive maintenance activities as a result of repack operations, increased labor and subcontractors support for Transportation and Packaging; partially offset by efficiencies in Liquid Effluent Facility (LEF), MLLW, TRU Disposition, TRU Repackaging, Interim Storage Area upgrades, Capsule Storage and Disposition, Mixed Waste Disposal Trenches (MWDT) and lower G&A allocations.
- The RL-0030 negative variance (-\$8.8M) primary contributors that exceed the reporting thresholds are as follows:
  - RL-0030.01 RL 30 Operations (-\$4.1M) The negative variance can be attributed to:
    - Integration & Assessments (+\$3.8M) Less subcontractor support required for Central Plateau strategy development and integration, Sample Management and Reporting has performed work scope more efficiently than planned, less cleanup document reviews were required than originally planned, requiring less contract support. Also efficiencies/savings were realized in establishing document templates, reviewing procedures, and software procurements.

- Drilling (-\$2.3M) Radiological contamination encountered on two NR-2 wells has caused additional HPT delays and additional support resource requirements (HPTs). In order to recover schedule additional well drilling rigs have been used, resulting in additional overruns to the project. Also, cost for remaining casing at the completion of the project was accrued as it cannot be released to the contractor.
- 100-NR-2 OU (+\$2.8M) Chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS Work Plan and Interim Proposed Plan Reporting were performed more efficiently than planned leading to the positive variance.
- 100 HR-3 Operable Unit (-\$3.6M) Primary contributors to the negative cost variance are due to 100 DX extensive effort required to design the pH adjustment system, cost overruns in completing the OU Remedial Process Optimization studies, 100 DX higher than expected cost to complete acceptance test plan and the operational test plan, cost of realigning wells from DR-5 to 100 DX, 100 HX Construction cable cost increased due to increases in copper prices and additional time and resources being spent on internal CERCLA (RI/FS) document development that will be recovered in completed Draft A document.
- 200 PW-1 OU (+\$0.9M) Labor and subcontract cost for general operations and minor modifications support is less than planned. In addition, efficiencies and savings experienced with the Soil Vapor Extraction (SVE) system testing prior to March 2010 as well as the removal of two old SVE units.
- Usage Based Services (-\$1.4M) Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.
- o RL-0030.C1 GW Remedy Implementation (-\$4.6M) the negative variance can be attributed to:
  - 200-ZP-1 Operable Unit (-\$4.6M) The negative variance is due to 200W P&T construction associated with the CHPRC accrued costs for Construction Contractors completed work scope defined in Change Notifications which are in the process of definitization. The costs are associated with the resources expended to complete the P&T facility by the end of FY2011 including added shifts, overtime, and logistics of working parallel activities. Interim Operations reflects significant progress and cost underruns achieved to date for System Calibration, design of the permanent hookup of well EW-1 was lower than planned as only minor changes were needed to an existing design, cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly, cost for collecting depth discrete groundwater and soil samples during the installation of new wells was less than planned, 200W Pump-and-Treat Remedial Design/Remedial Action work plan and preliminary design activities were completed with fewer resources than planned.
- The RL-0040 positive variance (+\$8.1M) is primarily due to recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$1.1M) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) less than expected (+\$1.9M), completion of the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$2.2M), capital equipment (+\$0.3M), Usage Base Services (-\$0.4M) and underrun in overhead allocations (+\$2.1M).
- The RL-0041 positive variance (+\$16.0M) cost variance is within established reporting thresholds. The project is currently experiencing impacts associated with:

- Waste Sites (+\$12.1M) The positive variance is due to CSNA sites that were completed at less than anticipated cost. This is partially offset by greater than anticipated extent and severity of contamination on many waste sites resulting in more tons disposed and more controls required, thus higher than anticipated cost, as well as level-of-effort activities bearing additional costs for increased functional group support.
- 100K Area Project (Facilities and Others) (+\$3.9M) The positive cost variance is due to 105KE Reactor Disposition – ISS underrun as well as G&A and Direct Distributables.
- The RL-0042 positive variance (+\$1.3M) reflects reduction in surveillance and maintenance requirements as the facility deactivation reached completion. Efficient use of resources to support deactivation activities with available time further aided in creating this positive variance.

## FUNDING ANALYSIS

### FY2012 Funds vs. Fiscal Year Spend Forecast (\$M)

PBS	Project	FY 2012		Variance
		Projected Funding	Spending Forecast	
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	33.4	33.4	0.0
<b>RL-0013</b>	Waste and Fuels Management Project	4.6	4.6	0.0
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	0.6	0.6	0.0
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	9.2	9.2	0.0
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	6.5	6.5	0.0
<b>Total ARRA:</b>		<b>54.2</b>	<b>54.2</b>	<b>0.0</b>
<b>RL-0011</b>	Nuclear Materials Stabilization and Disposition	100.6	93.1	7.5
<b>RL-0012</b>	Spent Nuclear Fuel Stabilization and Disposition	86.9	82.6	4.3
<b>RL-0013</b>	Waste and Fuels Management Project	88.3	86.0	2.3
<b>RL-0030</b>	Soil, Groundwater and Vadose Zone Remediation	121.1	116.5	4.6
<b>RL-0040</b>	Nuclear Facility D&D, Remainder of Hanford	12.2	11.8	0.4
<b>RL-0041</b>	Nuclear Facility D&D, River Corridor	36.1	35.0	1.2
<b>RL-0042</b>	Fast Flux Test Facility Closure	2.0	1.8	0.2
<b>Total Base:</b>		<b>447.2</b>	<b>426.7</b>	<b>20.5</b>

#### Funds/Variance Analysis:

ARRA funding reflects FY2011 carryover funds. The ARRA spending forecast assumes that all ARRA funding is spent in FY2012. Base funding reflects FY2011 carryover funds of \$42.2M and FY2012 new budget authority of \$405.1M. The Base funding distribution by PBS was revised based on Revision 3 of the Performance Measurement Baseline.

## BASELINE CHANGE REQUESTS

In November 2011, CHPRC approved and implemented two (2) baseline change requests (BCRs), of which one (1) was administrative in nature and did not change scope, schedule or budget. The two change requests are described in the table below:

Change Request #	Title	Summary of Change
<b>Implemented into the Earned Value Management System for November 2011</b>		
BCR-PRC-12-001R0	<i>PRC Baseline, Rev. 3</i>	As directed by RL, in accordance with Section C.3.1.2.2 of the Contract Statement of Work, and consistent with the RL guidance provided in RL letter 11-PIC-0037, "Contract No. DE-AC06-08RL14788 – Transmittal of Target Profile for Baseline Implementation", dated July 8, 2011, this change request provides the Stage 2 FY2013-FY2018 Performance Measurement Baseline Deliverable C.3.1.2.2-2 for RL review and approval.  The reason/purpose of this submittal is to provide RL an updated Performance Measurement Baseline (PMB) that aligns to the contract scope which adheres to the RL current target funding profile for Fiscal Years (FY) 2012-2018.  This CHPRC PMB submittal includes provisions for management reserve (to be provided under separate cover) and is considered "revision three" of the PMB.
BCRA-030-12-004R0	<i>November 2011 Admin BCR</i>	This BCR modifies the CAM responsible for work scope to align with approved and implemented organizational changes with-in S&GRP.

Overall the contract period performance measurement baseline (PMB) budget is **decreased** (\$280.2) million in November 2011. In November 2011 management reserve (MR) is reduced in the amount of (\$135.6) million in fiscal year (FY) 2011 through (FY) 2018.

### Management Reserve Activity

BCR Number	Title	Fiscal Year	MR (ARRA) & PBS	MR (Base) & PBS
BCR-PRC-12-001R0	<i>PRC Baseline, Rev. 3</i>	2012 – 2018	RL-011/ RL-013/ RL-040/ RL-041/ Note: ARRA is 2012 only (\$15.2M)	RL-011/ RL-013/ RL-030/ RL-040/ RL-041/ RL-042/ (\$120.4M)
<b>Overall MR Change in November 2011 – (\$135.6M)</b>				

Fee adjustments in November 2011 resulted in a \$7.5M increase.



See the Format 3 Report in Appendix A and A-1 for a complete listing of the specific change requests and the impact on the PMB budget by fiscal year. The change to the Estimated Contract Price, if all authorized, un-priced work scope were definitized at the PMB values as a result of change requests processed in November 2011, is a **decrease** of (\$343.4M) million and is summarized by fiscal year in the tables below (dollars in thousands, negative number represents reduction):

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

	FY2009	FY2010	FY2011	FY2012	FY2013	FYs 2009-2013	FYs 2014-2018	Contract Period Total	Post Contract Total	Total PMB
<b>October 2011 Estimated Contract Price</b>										
PMB	653,426	960,017	1,002,105	396,643	862,611	3,874,802	2,734,649	6,609,451	0	6,609,451
Mgmt Rsrv (MR)	0	0	25,174	11,287	31,226	67,687	155,220	222,907	0	222,907
Fee	39,712	48,772	32,322	16,969	17,521	155,296	87,417	242,713	0	242,713
<b>Total</b>	<b>693,138</b>	<b>1,008,789</b>	<b>1,059,601</b>	<b>424,899</b>	<b>911,358</b>	<b>4,097,785</b>	<b>2,977,286</b>	<b>7,075,071</b>	<b>0</b>	<b>7,075,071</b>
<b>Change by Funding Source to Estimated Contract Price in November 2011</b>										
<b>PMB</b>										
<b>ARRA</b>										
All ARRA WBSs	0	0	0	2,141	0	2,141	0	2,141	0	2,141
<b>Base</b>										
All Base WBSs	0	0	0	28,127	-388,166	-360,039	77,870	-282,169	64,797	-217,372
<b>Change to PMB</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,268</b>	<b>-388,166</b>	<b>-357,898</b>	<b>77,870</b>	<b>-280,028</b>	<b>64,797</b>	<b>-215,231</b>
<b>MR</b>										
<b>ARRA</b>										
All ARRA WBSs	0	0	-15,218	0	0	-15,218	0	-15,218	0	-15,218
<b>Base</b>										
All Base WBSs	0	0	-9,956	400	-20,739	-30,295	-90,151	-120,446	0	-120,446
<b>Change to MR</b>	<b>0</b>	<b>0</b>	<b>-25,174</b>	<b>400</b>	<b>-20,739</b>	<b>-45,513</b>	<b>-90,151</b>	<b>-135,664</b>	<b>0</b>	<b>-135,664</b>
<b>Fee</b>										
<b>ARRA</b>										
All ARRA WBSs	0	0	0	0	0	0	0	0	0	0
<b>Base</b>										
All Base WBSs	0	0	0	31	479	511	6,983	7,494	0	7,494
<b>Change to Fee</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31</b>	<b>479</b>	<b>511</b>	<b>6,983</b>	<b>7,494</b>	<b>0</b>	<b>7,494</b>
<b>Total Change</b>	<b>0</b>	<b>0</b>	<b>-25,174</b>	<b>30,699</b>	<b>-408,426</b>	<b>-402,900</b>	<b>-5,297</b>	<b>-408,197</b>	<b>64,797</b>	<b>-343,400</b>
<b>November 2011 Estimated Contract Price</b>										
PMB	653,426	960,017	1,002,105	426,911	474,445	3,516,904	2,812,519	6,329,424	64,797	6,394,221
MR	0	0	0	11,687	10,487	22,174	65,069	87,243	0	87,243
Fee	39,712	48,772	32,322	17,000	18,000	155,807	94,400	250,207	0	250,207
<b>Total</b>	<b>693,138</b>	<b>1,008,789</b>	<b>1,034,427</b>	<b>455,598</b>	<b>502,932</b>	<b>3,694,885</b>	<b>2,971,989</b>	<b>6,666,874</b>	<b>64,797</b>	<b>6,731,671</b>

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

		FY2009	FY2010	FY2011	FY2012	FY2013	FY2009-2013	FY2014-2018	Total
<b>Management Reserve (MR) - End of October 2011</b>									
<b>ARRA</b>	RL-0011.R1	0	0	2,981	0	0	2,981	0	2,981
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	51	0	0	51	0	51
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	4,111	0	0	4,111	0	4,111
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	8,075	0	0	8,075	0	8,075
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>15,218</b>	<b>0</b>	<b>0</b>	<b>15,218</b>	<b>0</b>	<b>15,218</b>	
<b>Base</b>	RL-0011	0	0	2,000	5,500	8,000	15,500	0	15,500
	RL-0012	0	0	3,000	2,000	4,500	9,500	16,800	26,300
	RL-0013	0	0	1,500	500	5,000	7,000	55,530	62,530
	RL-0030	0	0	0	2,832	4,400	7,232	32,000	39,232
	RL-0040	0	0	3,242	200	4,979	8,421	31,900	40,321
	RL-0041	0	0	214	200	4,287	4,701	17,990	22,691
	RL-0042	0	0	0	55	60	115	1,000	1,115
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>9,956</b>	<b>11,287</b>	<b>31,226</b>	<b>52,469</b>	<b>155,220</b>	<b>207,689</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>25,174</b>	<b>11,287</b>	<b>31,226</b>	<b>67,687</b>	<b>155,220</b>	<b>222,907</b>	
<b>Changes to/Utilization of Management Reserve in November 2011</b>									
<b>ARRA</b>	RL-0011.R1	0	0	-2,981	0	0	-2,981	0	-2,981
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	-51	0	0	-51	0	-51
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	-4,111	0	0	-4,111	0	-4,111
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	-8,075	0	0	-8,075	0	-8,075
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>-15,218</b>	<b>0</b>	<b>0</b>	<b>-15,218</b>	<b>0</b>	<b>-15,218</b>	
<b>Base</b>	RL-0011	0	0	-2,000	0	-3,000	-5,000	8,100	3,100
	RL-0012	0	0	-3,000	-400	-2,700	-6,100	-7,848	-13,948
	RL-0013	0	0	-1,500	0	-4,600	-6,100	-33,843	-39,943
	RL-0030	0	0	0	0	-2,368	-2,368	-18,361	-20,729
	RL-0040	0	0	-3,242	0	-4,779	-8,021	-23,643	-31,664
	RL-0041	0	0	-214	800	-3,287	-2,701	-13,814	-16,515
	RL-0042	0	0	0	0	-5	-5	-741	-746
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>-9,956</b>	<b>400</b>	<b>-20,739</b>	<b>-30,295</b>	<b>-90,151</b>	<b>-120,446</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>-25,174</b>	<b>400</b>	<b>-20,739</b>	<b>-45,513</b>	<b>-90,151</b>	<b>-135,663</b>	
<b>Management Reserve - End of November 2011</b>									
<b>ARRA</b>	RL-0011.R1	0	0	0	0	0	0	0	0
	RL-0013.R1.1	0	0	0	0	0	0	0	0
	RL-0013.R1.2	0	0	0	0	0	0	0	0
	RL-0030.R1.1	0	0	0	0	0	0	0	0
	RL-0030.R1.2	0	0	0	0	0	0	0	0
	RL-0040.R1.1	0	0	0	0	0	0	0	0
	RL-0040.R1.2	0	0	0	0	0	0	0	0
	RL-0041.R1	0	0	0	0	0	0	0	0
<b>ARRA Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Base</b>	RL-0011	0	0	0	5,500	5,000	10,500	8,100	18,600
	RL-0012	0	0	0	1,600	1,800	3,400	8,952	12,352
	RL-0013	0	0	0	500	400	900	21,687	22,587
	RL-0030	0	0	0	2,832	2,032	4,864	13,639	18,503
	RL-0040	0	0	0	200	200	400	8,257	8,657
	RL-0041	0	0	0	1,000	1,000	2,000	4,176	6,176
	RL-0042	0	0	0	55	55	110	259	369
	<b>Base Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,687</b>	<b>10,487</b>	<b>22,174</b>	<b>65,069</b>	<b>87,243</b>
<b>MR Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,687</b>	<b>10,487</b>	<b>22,174</b>	<b>65,069</b>	<b>87,243</b>	

## SELF-PERFORMED WORK

Business structure information documents ongoing compliance with the requirements of the Contract Section H.20 clause entitled *Self-Performed Work*.

Contracts-to-Date Actual Awards & Mods						Projection to FY18			
Contracts + Purchase Orders + Pcard 10/1/08 -11/30/2011						Planned Subcontracting*	\$2,524,483,195		
						Contract-to-date awards	\$1,879,684,612		
	ARRA		BASE		Total \$	Total %	Goal %	Bal remaining to award = \$644,798,583	
	\$	%	\$	%				Goal award \$	Bal to goal \$
SB	\$380,625,874	52.05%	\$557,078,624	48.51%	\$937,704,499	49.89%	49.30%	\$1,244,570,215	\$306,865,716
SDB	\$78,069,996	10.68%	\$94,626,404	8.24%	\$172,696,400	9.19%	8.20%	\$207,007,622	\$34,311,222
SWOB	\$86,587,190	11.84%	\$103,380,249	9.00%	\$189,967,439	10.11%	7.50%	\$189,336,240	(\$631,199)
HUB	\$21,664,050	2.96%	\$21,374,618	1.86%	\$43,038,668	2.29%	2.20%	\$55,538,630	\$12,499,962
VOSB	\$53,830,568	7.36%	\$58,280,884	5.08%	\$112,111,452	5.96%	3.50%	\$88,356,912	(\$23,754,540)
SDVO	\$12,319,692	1.68%	\$18,055,323	1.57%	\$30,375,015	1.62%	1.30%	\$32,818,282	\$2,443,267
NAB	\$16,259,450	2.22%	\$9,930,019	0.86%	\$26,189,469	1.39%	0.00%	* 10-year subcontracting projection	
Large	\$239,990,433	32.82%	\$297,105,299	25.87%	\$537,095,732	28.57%	0.00%		
GOVT	\$116,890	0.02%	\$1,429,133	0.12%	\$1,546,022	0.08%	0.00%	PRC clause H.20 small business (SB) requirement:	
GOVT CONT	\$110,490,722	15.11%	\$289,660,665	25.22%	\$400,151,387	21.29%	0.00%	≥ 17% of Total Contract Price performed by SB	
EDUC	\$9,526	0.00%	\$107,491	0.01%	\$117,017	0.01%	0.00%	Total Contract Price:	\$5,525,855,581
NONPROFIT	\$37,188	0.01%	\$2,840,348	0.25%	\$2,877,535	0.15%	0.00%	17% requirement:	\$939,395,449
FOREIGN	\$28,773	0.00%	\$160,271	0.01%	\$189,044	0.01%	0.00%	SB Awarded:	\$937,704,499
<b>Total</b>	<b>\$731,299,405</b>		<b>\$1,148,385,207</b>		<b>\$1,879,684,612</b>			Balance to Requirement:	\$1,690,950

**Notes:**

1. Subcontracting goals have been met as a result of a concerted effort to award new small business actions and an update of the subcontracting goals to match the small business plan submitted to DOE in December 2010 that was verbally accepted by DOE in August. Fifty-one percent of total awards have been made to small businesses with approximately 54% of ARRA awards to small businesses.
2. ARRA-funded awards have accounted for approximately 44% of all actions placed since contract inception.
3. Approximately 93% of the total dollars arise from service and staffing Contracts and Contract amendments with five percent of the dollars arising from P-Card purchases and the balance from purchase orders for materials and equipment.
4. This report excludes blanket contract values which are only estimates and not used for payment obligations.
5. Data is summarized by business categories (Women Owned Minority Business Enterprise codes) in accordance with socioeconomic reporting requirements. Small business categories overlap and should not be added together.

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

Contract Section	Project	GFS/I	Status
<b>CONTRACT</b>			
J.12/C.2.3.6	PBS-13, Transuranic Waste Certification	WIPP provides shipping resources and manages the schedule for transportation of these containers to WIPP. The schedule is variable and the number of shipments is controlled by DOE-HQ on a complex-wide priority. Cost for shipment of TRU waste offsite is borne by the Carlsbad Field Office.	Ongoing