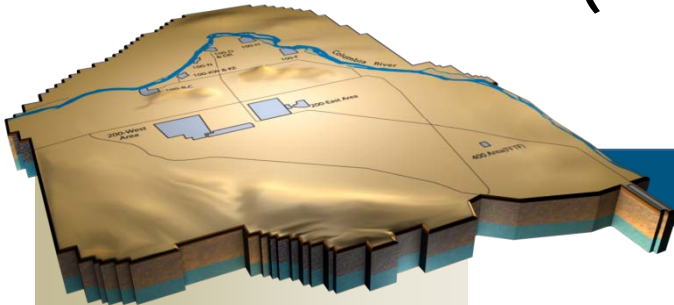


# Section C

## Solid Waste Stabilization and Disposition (RL-0013)



### Monthly Performance Report

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August 2010  
DOE/RL-2008-69, Rev. 35  
Contract DE-AC06-08RL14788  
Deliverable C.3.1.3.1 - 1

**Box Repair  
at CWC  
Expansion  
Area**



**Removing 3 feet Overburden  
at 3A Trench 8**

**Off-loading Hopewell  
7A Cask from 10-160B  
Shipping Cask**



## PROJECT SUMMARY

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

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

Weekly and monthly Recovery Act Reporting continued. Mixed Low Level Waste size reduced and repackaged 40.4 m<sup>3</sup> of TRU/M at PFNW. M-91-42: shipped 2.2 m<sup>3</sup> and completed 10.3 m<sup>3</sup> during month, M-91-43: shipped 0.2 m<sup>3</sup> and completed 4.3 m<sup>3</sup> during month, TRU Retrieval completed repackaging 3A Trench 17 Box 82 contents (43.5 m<sup>3</sup>) into three, Type A metal boxes and shipped to CWC. Next Generation Retrieval completed installation of the Real-Time Radiography System and Drum Warming Unit and initiated the associated Acceptance Testing. TRU Repackaging processed 70 parent drums; created 81 offspring drums; generated seven drums from glovebag change outs; compacted 256 empty parent drums, and generated 45 full puck drums. Waste Receiving and Processing Facility (WRAP) - Nondestructive examination: 343 drums (274 for Central Characterization Project [CCP]); Nondestructive Assay: 382 drums (226 for CCP); received 39 drums from the Plutonium Finishing Plant (PFP). TRU Waste had 18 shipments to Idaho in August. TRU Disposition to continue interface with CCP for the remaining Hanford certified backlog of 217 drums.

### **Base**

The WFMP continued maintaining facilities in a safe and compliant condition. Waste Encapsulation and Storage Facility issued a Notice to Proceed for an Alternative Analysis and Conceptual Design Report to Applied Research and Engineering Sciences Corporation in support of the K1/K3 ventilation upgrades. Canister Storage Building completed Multi-Canister Overpack (MCO) Handling Machine (MHM) tests and inspections. T Plant: shipped 71 containers from T Plant; shipped one ERDF container to ERDF and received one empty container in return, and received 48 containers to T Plant. Central Waste Complex (CWC) completed receipt and off-loading of two Hopewell casks shipped in 10-160B cask from Washington Closure 324 building, shipped five offsite shipments (16 containers); shipped 15 on-site transfers (192 containers); received 15 on-site transfers (277 containers); received two returned shipments (26 containers). Low Level Burial Grounds Mixed Waste Trench (MWT) – Received 16 shipments, 42 containers; MWT – Shipped four leachate tankers to Effluent Treatment Facility (ETF). Liquid Effluent Facilities (LEF) received 32 tankers (42k gallons). Off Site Spent Nuclear Fuel (SNF) Disposition completed Phase 1 construction of Project W-105, Interim Storage Cask Pad #3.

## EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
09-EMS-WFM-OB1-T1	Reduce the potential for releases from TRU Retrieval Waste repackaging activities in the LLBG.	Implement a point-of-generation approach to waste management that minimized the transport and handling of wastes.	10/1/2011	On schedule
		No exceedances of permit conditions. Participate in readiness assessment and establish process to confirm permit levels have been met.	9/30/2010	On schedule
10-EMS-WFM-OB2-T1	Reduce the levels of air pollution and increase the energy efficiency of WESF Plant heating and cooling operations.	Eliminate the use of the refrigerant R22.	2/26/2010	Complete
		Inactivate the fuel oil fired steam plant and replace with heat recovery chiller and electrical resistance heaters.	2/26/2010	Complete
10-EMS-WFM-OB3-T1	Reduce the generation of waste through implementation of pollution prevention practices.	Conduct a pollution prevention assessment of waste packaging and other operations at T-Plant to identify waste minimization opportunities.	9/30/2010	On schedule

## TARGET ZERO PERFORMANCE

	Current Month	Rolling 12 Month	Comment
Days Away, Restricted or Transferred	0	6	N/A
Total Recordable Injuries	0	7	N/A
First Aid Cases	17	90	<p>8/03/10, an M&amp;EC employee at MO720 received insect bites to the arm and chest. Employee was taken to AMH and returned to work with no restrictions. (21174)</p> <p>8/04/10, an M&amp;EC employee at MO721 received an insect bite on their arm. Employee was taken to AMH, and returned to work with no restrictions. (21175)</p> <p>8/04/10, a CHPRC employee at WRAP received an insect bite to the right forearm. Employee was taken to AMH, and returned to work with no restrictions. (21177)</p> <p>8/04/10, a CHPRC employee at WRAP had an insect fly into their left eye. Employee was taken to AMH, and returned to work with no restrictions. (21178)</p> <p>8/09/10, a CHPRC employee at LWFS experienced low back pain. Employee was taken to AMH for evaluation and was returned to work with no restrictions. (21186)</p> <p>8/10/10, a CHPRC employee at WRAP received several bug bites to the torso area. Employee was taken to AMH for evaluation and was returned to work with no restrictions. (21192)</p>

	Current Month	Rolling 12 Month	Comment
			<p>8/12/10, an M&amp;EC employee was taken to AMH after complaining on hand/wrist pain. Employee was returned to work with restrictions. (21197)</p> <p>8/17/10, a CHPRC employee at 2336W noticed itching/redness on their right wrist and pinky finger. Employee was taken to AMH for evaluation and was returned to work with no restrictions. (21222)</p> <p>8/18/10, an M&amp;EC employee at T Plant noticed a bug bite on the inside left elbow area. Employee was taken to AMH for evaluation and was returned to work with no restrictions. (21233)</p> <p>8/19/10, an FFS employee was stung by a bee in the chest, neck and stomach. Employee was transported to AMH, treated, and released with no restrictions. (21236) EPC</p> <p>8/23/10, a CHPRC employee at Building 212H received a bug bite/sting to the neck area. Employee was taken to AMH for evaluation and was returned to work with no restrictions. (21244)</p> <p>8/23/10, a CHPRC employee outside at U Plant, received several sweat bee stings to the chest area. Employee reported to AMH and was returned to work with no restrictions. (21246)</p> <p>8/23/10, an M&amp;EC employee swing shift at T Plant got fiberglass slivers in both hands when their hands slipped as they discarded a fiberglass flagpole in the trash. Employee was taken to AMH for evaluation, several slivers were removed and the employee was returned to work with no restrictions. (21247)</p> <p>8/24/10, a CHPRC employee at WRP was stung by a sweat bee. Employee was evaluated and AMH and was returned to work with no restrictions. (21258)</p> <p>8/25/10, an MSA employee at T Plant felt a twinge in the shoulder while removing a door frame. Employee was escorted to AMH for evaluation and was returned to work. (21261)</p> <p>8/27/10, an FFS employee complained of dust blown into eye by wind. (21272) EPC</p> <p>8/27/10, a CHPRC employee pinched finger between a wrench and a pipe. (21275) EPC</p>
<b>Near-Misses</b>	0	0	N/A

## KEY ACCOMPLISHMENTS

### ARRA

#### 13.01 Project Management

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

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

- Size reduced and repackaged 40.4 m<sup>3</sup> of TRU/M at PFNW
  - NDA of the repackaged containers is ongoing at WRAP, will transition to NDA at PFNW by mid-September
  - M/LLW dropouts to be processed/treated at PFNW for return to Hanford for disposal

- Acceptance for the “Hexone” box has been approved by PFNW, and shipment from ES-Clive scheduled for September 2, 2010
- M-91-42 TPA (*Small Container CH-MLLW*)
  - 2.2 m<sup>3</sup> shipped and 10.3 m<sup>3</sup> completed during month
  - 2003: 8,219 m<sup>3</sup> shipped and 8,191 m<sup>3</sup> completed since January 2003 (ARRA and BASE)
- M-91-43 TPA (*RH & Large Container MLLW*)
  - 0.2 m<sup>3</sup> shipped and 4.3 m<sup>3</sup> completed during month
  - 731 m<sup>3</sup> shipped and 711 m<sup>3</sup> completed since January 2003 (ARRA and BASE)
- M-91-44 TPA (*Large Container TRUM Repackaging*)
  - Total for month: 0 m<sup>3</sup> shipped and 0 m<sup>3</sup> complete
  - Accumulated total: 40.5 m<sup>3</sup> shipped and 0 m<sup>3</sup> complete

### 13.05 TRU Retrieval

- Completed repackaging 3A Trench 17 Box 82 contents (43.5 m<sup>3</sup>) into 3, Type A metal boxes and shipped to CWC
- Completed installation of power poles for permanent power at 3A
- Started removal of 3A Trench 17 Box 2
- Completed excavating ramp into 3A Trench 17 for Box 81 removal
- Completed 3A Trench 8 site preparation activities including trench marking, creating a high-dose shielding zone, and establishing haul roads
- Implemented new 3A Trench 8 excavation (SW-100-201 and -202) and retrieval (SW-100-163) procedures
- Completed remaining pre-start corrective actions, W&FM Internal Review, and Independent Review, and received authorization to proceed with 3A Trench 8 retrieval
- Began removal of ~3-ft overburden from 3A Trench 8, in preparation for second sub-surface geophysical survey for remaining ~1 ft. overburden
- Performed subsurface geophysical survey of remainder of 4B Trench 11
- Developed work package and AJHA for Trench 11 Excavator Interrogation of Event Site
- Next Generation Retrieval
  - Completed the Operability Test for the Passive/Active Neutron Assay Unit
  - Completed installation of the Real-Time Radiography System and Drum Warming Unit and initiated the Acceptance Test
  - Validated and approved procedure SW-100-178, Operation of Gamma Assay

### 13.06 TRU Repackaging

- Processed 70 parent drums – created 81 offspring drums
- Generated seven drums from glovebag change outs
- Compacted 256 empty parent drums – generated 45 full puck drums

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

- NDE: 343 drums (274 for CCP)
- NDA: 382 drums (226 for CCP)
- Received 39 TRU drums from the Plutonium Finishing Plant (PFP)
- Continued TRU Waste Shipments to Idaho - Total for Month:18, Total to date:31
- Management Directive (MD) on source shipments reworked and in final review
- Continued Headspace and Flam Gas Sampling (361) in support of CCP
- Started Super High Efficiency Neutron Counter (HENC) Assay System counter operations, including walk-downs, new procedure validations, and initiation of Non-WIPP SWB assays
- Qualified two WRAP First Line Managers (ARRA) in Core Certification and one in TRUPACT II
- Qualified/Re-qualified seven NCOs (ARRA) for Shipping and Receiving



**13.15 TRU Disposition**

- Continued interface with CCP for the remaining Hanford certified backlog (217 drums)
  - 171 drums assigned to 51 SWB build lists
  - 46 drums being worked with CCP Waste Certification Officials and Transportation Certification Officials (WCO/TCO)
- Supported Large Box to Perma-fix process. Received initial 21 drums; initial assay results indicate 20 drums are low-level waste.
- Supported review, clearance and issuance of Source Documents for three waste streams (209E, RLMWARD, and GE-Valecetos). The CCP AK-Documents to be issued in October.
- CCP Support
  - Supported CBFO/RL/CCP/CHPRC Management Assessments for transportation and characterization efficiencies
- RH/CH Interface
  - Initiated planning and communication with Operations and Support organizations to develop a Rough Order of Magnitude (ROM) cost and schedule for initiating RH TRU Waste shipment
  - Completed the review of the Functions and Requirements documents for the RH-TRU 72-B Cask Shipping Capability document
  - Completed the review of the Functions and Requirements document for the Hanford RH/Large Package Processing Capability document
  - Supported Waste Services for the review of the U Plant, Tank D-10 relocation to T-Plant waste profile

**Base****13.02 Waste Encapsulation and Storage Facility (WESF)**

- WESF K1 and K3 Heating, Ventilation, and Air Conditioning Upgrades
  - Issued Notice to Proceed on Alternative Analysis and Conceptual Design Report to Applied Research and Engineering Sciences Corporation
  - Participated in alternative analysis facilitated session and down selected potential design solutions
  - Completed Project Execution Plan
  - Completed repairs to Cooling Water System K5-16-3
  - Completed repairs to the Wet Surface Film Coolers #3 Spray Pump
- Operations
  - Repackaged recyclable items to new environmental requirements

**13.03 Canister Storage Building**

- Completed Multi-Canister Overpack (MCO) Handling Machine (MHM) tests and inspections
- Completed annual sampling of MCO #H006
- Completed implementation of ISA Facility Safety Analysis Report annual update
- Continued to support Container Restraint System (CRS) construction activities

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

- Maintained the facility in a safe and compliant condition

**13.08 T Plant**

- Shipped 71 containers from T Plant
- Shipped one ERDF container to ERDF and received one empty container in return
- Received 48 containers to T Plant
- Elevator Repair
  - Elevator repair is on-going and on schedule for repairs to be completed early September
- ACT II Filter Replacement

- New filters have passed Filter Test Facility (FTF) inspection and testing and are now with Acquisition Verification Services (AVS), pending no issues AVS expects filters to arrive September 15 and facility plans to install and test by the end of September 2010
- 216-Z-9 Repack Campaign
  - Most 219-Z-9 containers fall into the configuration of an unvented 90 mil liner, 216-Z-9 drums as part of the Justification for Continued Operation (JCO) are in the process of being vented at T Plant, 2706T facility through the Act I Filters. Venting will accelerate when Act II is complete and processing will commence once the JCO is terminated.

### 13.09 Central Waste Complex (CWC)

- Shipped five offsite shipments, 16 containers
- Shipped 15 on-site transfers, 192 containers
- Received 15 on-site transfers, 277 containers
- Received two offsite shipments, 26 container
- LLBG
  - Mixed Waste Trench (MWT) – Received 16 offsite shipments, 42 containers
  - MWT – Shipped four leachate tankers to Effluent Treatment Facility (ETF)
- Completed receipt and off-loading of two Hopewell casks shipped in 10-160B cask from Washington Closure 324 building
- TRU Retrieval Support Medium Box Repair – Construction completed work change notice (WCN) to work package and obtained Hazard Review Board (HRB) approval to proceed with box repairs. Second box completed with three boxes remaining. Secured all railroad ties to boxes scheduled to be lifted.
- Shipped two of three low flash point units from CWC to ERDF
- Replaced plastic plugs with metal plugs in all 212N boxes in preparation for shipment to treatment facility
- Completed assay campaign 39. Seven boxes were assayed, four fiberglass-reinforced packages (FRPs) and three metal boxes. Assay results are pending.
- Received Super 7A box at the CWC expansion area
- Completed all required inspections at the Integrated Disposal Facility (IDF)

### 13.11 Liquid Effluent Facilities (LEF)

- Received (August) 32 tankers (42k gallons)
- Treated effluent to State-Approved Land Disposal Site: 1.28M gallons; (CY 12.2M gallons)
- 200A Treated Effluent Disposal Facility (TEDF) discharged 37M; (CY 187M gallons)
- Received Environmental Restoration Disposal Facility (ERDF) leachate (120k gallons) at Liquid Effluent Retention Facility (LERF) Basin 43
- Shipped 30 drums of waste to the ERDF
- Transferred 24 drums to Sump 1 for processing through the evaporator
  - Received 19 drums of Waste Sampling and Characterization Facility wastewater
  - Continued with Basin 44 Campaign (processed 2.17M gallons)
  - Received 2,000 gallons of 50% sodium hydroxide
  - Replaced solenoids on the Thin Film Dryer Conveyor System
  - Repaired failed rupture disks on ultraviolet/oxidation unit #1
  - Replaced motor on vessel off gas blower
  - Completed repairs to the 2nd reverse osmosis booster pump
  - Repaired leaking TEDF D-Line (backfill of excavation remains to be done)
  - Repaired customer waste line to the concentrate tanks

- 300 Area Facilities
  - Operating the Retention Transfer System (RTS); 20 batches (600,000 gallons) discharged to the City of Richland
  - Continued performing preventive maintenance (PM) activities at 310/340 for systems that will remain active after turnover (heating, ventilation and air conditioning, fire, and compressed air)
  - Received RL approval of revised 340 hazard categorization
  - Continued RTS training for Nuclear Chemical Operators and Shift Operations Managers

### 13.12 Integrated Disposal Facility

- Completed required annual inspections and calibrations

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

- Slightly Irradiated Fuel (SIF)
  - Completed phase 1 construction of the Container Restraint System (CRS) for Project W-105, Interim Storage Cask Pad #3

### 13.21 Mixed Waste Disposal Trenches

- Maintained the trenches in a safe and compliant condition

## MAJOR ISSUES

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

**Corrective Actions** – Strategy developed and agreed to with Senior Management, HAMTC, and program/MSA support to implement new shift/overtime strategy, recover schedule slip for shipments.

**Status** – 539m<sup>3</sup> removed, 521m<sup>3</sup> shipped. Recovery schedule supports TPA tentative agreement of 2,000m<sup>3</sup> and the ARRA Key Parameter and Performance Metric of 2,500m<sup>3</sup> by September 30, 2011.

**Issue Statement** – An engineering evaluation was revised to address RL Safety and Engineering Division concerns on movement of the one previously dropped Interim Storage Cask.

**Corrective Actions** – The revised document was provided to RL on July 28, 2010 to determine if concerns have been adequately addressed. In follow-on discussions, RL has identified the need for additional input to fully address their concerns.

**Status** –

- Develop White Paper, conduct meeting(s) with RL to review draft determinations during preparation, and issue White Paper by September 3, 2010.
- An additional evaluation was performed and RL has confirmed that their concerns have now been addressed. This is the last report of this issue.

**Issue Statement** – Reaching TRU characterization goals of 90 per week with CCP.

**Status** – Executing recovery plan with CCP for NDE/NDA schedule variance.







**Issue Statement** – EPA Baseline Report for CCP Certification expected to be submitted in September.















**Status** – CCP Certification letter expected in December.



## RISK MANAGEMENT STATUS

Unassigned Risk  
Risk Passed  
New Risk

 Working - No Concerns  
 Working - Concern  
 Working - Critical  
 Increased Confidence  
 No Change  
 Decreased Confidence

Risk Title	Risk Strategy/Handling	Assessment		Comments
		Month	Trend	
WSD-007: TRU Retrieval Complexities	Accelerate "next generation" retrieval			Significant container degradation encountered; Draw down of MR implemented
WSD-008: Classified Waste Storage Limitations	Implement mobile shredding; evaluate establishing secure storage at CWC or other location			Questionable mobile shredding feasibility, working with NNSA to define path forward
WSD-013A: TRU Waste Volumes or Characteristics - Retrieval	Implement in-trench assaying as part of Next Generation retrieval and explore stabilization techniques			Encountering issues regarding unexpected waste characteristics
WSD-013B: TRU Waste Volumes or Characteristics - Processing	Use ARRA funds to add additional process lines			No issues regarding unexpected waste volumes or characteristics experienced to date
<b>WSD-018: CSB Major Equipment Failure</b>	<b>Risk accepted without mitigation</b>			<b>Risk is very unlikely.</b>
WSD-025: Unexpected Waste Volumes/Characteristics	Work with generators to update forecasting data monthly/quarterly/semi-annually			Waste volumes to ERDF significantly greater than projected due to ARRA work acceleration
WSD-043: Orphan Wastes	Obtain regulatory relief for "no path forward" wastes			Working to identify treatment options for all waste currently in storage

## PROJECT BASELINE PERFORMANCE

Current Month  
(\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
<b>MLLW Treatment</b>	1.6	0.4	0.7	(1.2)	-76.9	(0.4)	-106.3
<b>TRU Waste</b>	11.5	6.7	8.1	(4.9)	-42.2	(1.4)	-20.7
<b>ARRA Total</b>	13.1	7.0	8.8	(6.1)	-46.3	(1.8)	-25.1
<b>Base</b>	<u>5.8</u>	<u>6.9</u>	<u>8.8</u>	<u>1.1</u>	19.7	<u>(1.9)</u>	-27.8
<b>Total</b>	<b>18.9</b>	<b>13.9</b>	<b>17.6</b>	<b>(4.9)</b>	<b>-26.1</b>	<b>(3.7)</b>	<b>-26.4</b>

Numbers are rounded to the nearest \$0.1M.

## ARRA

## CM Schedule Performance (-\$6.1M/-46.3%)

RL-0013 TRU Waste (-\$4.9M) – TRU Retrieval slower recovery activities than planned, delayed purchase of Trench Face Process System (TFPS) due to extended bid time requested by vendors, and inability to ship low gram TRU waste due to contractor's waste receipt limitation for current month. RL-0013 MLLW Treatment (-\$1.2M) – Planned 435.1 Compliance Waste processing was achieved in prior period, coupled with fewer MLLW shipments than planned due to delay in receipt of waste from the Retrieval Project.

**CM Cost Performance (-\$1.8M/-25.1%)**

RL-0013 TRU Waste (-\$1.4M) – TRU Retrieval and TRU Disposition maintaining staff without commensurate performance.

RL-0013 MLLW Treatment (-\$0.4M) – Application of retroactive use tax on ERDF capital equipment, coupled with continued fixed costs for MLLW shipments without commensurate performance.

**Base**

**CM Schedule Performance (+\$1.1M/+19.7%)** – A point adjustment to move RH/Large Box Repack to ARRA funded activity, partially offset by delay in WESF upgrades.

**CM Cost Performance (-\$1.9M/-27.8%)** – RH/Large Box Repack incurred costs in Base account for ARRA funded activities (cost transfer in September), TRU Retrieval increased subcontractors to facilitate Kelly Klosure fabrication, and Assessments continue above plan.

## Contract-to-Date (CTD)

(\$M)

WBS 013/ RL-0013 Waste and Fuels Management Project	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>MLLW Treatment</b>	33.3	31.3	28.8	(2.0)	-6.0	2.6	8.1	49.1	45.5	3.6
<b>TRU Waste</b>	109.7	96.9	102.7	(12.7)	-11.6	(5.7)	-5.9	245.6	242.3	3.3
<b>ARRA Total</b>	143.0	128.3	131.4	(14.7)	-10.3	(3.2)	-2.5	294.7	287.8	6.9
<b>Base</b>	<u>227.8</u>	<u>225.6</u>	<u>227.8</u>	<u>(2.2)</u>	<u>-1.0</u>	<u>(2.2)</u>	<u>-1.0</u>	<u>1,573.2</u>	<u>1,567.7</u>	<u>5.5</u>
<b>Total</b>	<b>370.8</b>	<b>353.8</b>	<b>359.2</b>	<b>(16.9)</b>	<b>-4.6</b>	<b>(5.3)</b>	<b>-1.5</b>	<b>1,867.9</b>	<b>1,855.5</b>	<b>12.4</b>

Numbers are rounded to the nearest \$0.1M.

**ARRA****CTD Schedule Performance (-\$14.7M/-10.3%)**

RL-0013 TRU Waste (-\$12.7M) – TRU Retrieval slower Recovery Plan and Restart activities than planned, delayed purchase of Trench Face Process System (TFPS) due to extended bid time requested by vendors (including supporting site preparation), Next Generation Retrieval (NGR) and characterization proceeding with sequential site preparation versus parallel, and delay in full CCP program implementation and lack of CCP resources for NDE.

RL-0013 MLLW Treatment (-\$2.0M) – Fewer MLLW shipments than planned to date due to delay in receipt of waste from the Retrieval Project, and delay in receipt of Large A Type container due to lack of qualified suppliers and extended vendor build schedule, partially offset by 435.1 Compliance Waste processing being achieved in prior period.

**CTD Cost Performance (-\$3.2M/-2.5%)**

RL-0013 TRU Waste (-\$5.7M) – Increased TRU Retrieval operational costs associated with upset conditions and TRU Retrieval support and management costs in support of deteriorated waste containers and inability to make progress due to delays in recovery plan implementation, increased allocations for additional office space and other assessments as a result of increased Recovery Act expenditures; partially offset by lower ramp up and training costs for TRU Characterization and Shipping and efficiencies in T-Plant.

RL-0013 MLLW Treatment (+\$2.6M) – Costs for MLLW are below plan due to efficiencies created by treating waste at ES-Clive rather than planned treatment at PermaFix Northwest (due to a waiver received from DOE), efficiencies in procurement of Type A Waste container, and decreased operational costs at CWC.

**Base**

**CTD Schedule Performance (-\$2.2M/-1.0%)** – Long-Term Box Storage delayed by Readiness Assessment review and alternative solutions evaluation coupled with diversion of resources to higher priority work; WESF ventilation upgrade vendor schedule delay for Alternatives Analysis and enhanced PRC Safety practices and work management requirements; Canister Storage Building (CSB) and Liquid Effluent Facilities (LEF) engineering activities delay due to resource availability (assigned to higher priority activities).

**CTD Cost Performance (-\$2.2M/-1.0%)** – Increased assessments above plan, TRU Retrieval additional resources to deal with the deteriorated containers, WRAP incurring increased levels of corrective and preventive maintenance activities as a result of repack operations, partially offset by efficiencies in Liquid Effluent Facilities (LEF), MLLW (due to treating waste at Energy Solution in Clive, UT (ES-Clive) rather than planned treatment at PermaFix Northwest (PFNW), SNF Disposition, and TRU Disposition.

**Contract Performance Report Formats are provided in Appendix A and Appendix A-1.**

## FUNDS vs. SPEND FORECAST (\$M)

WBS 013/RL-0013 Waste and Fuels Management Project	FY2010		Variance
	Projected Funding	Spending Forecast	
<b>ARRA</b>	129.0	125.1	4.0
<b>Base</b>	<u>108.0</u>	<u>102.3</u>	<u>5.7</u>
<b>Total</b>	<b>237.0</b>	<b>227.4</b>	<b>9.7</b>

Numbers are rounded to the nearest \$0.1M.

**Funds/Variance Analysis**

Projected funding includes FY2009 uncosted and FY2010 expected new budget authority.

**Critical Path Schedule**

Critical path analysis can be provided upon request.

**Estimate at Completion (EAC)**

The BAC and EAC now include FY2009 through FY2018.

**Baseline Change Requests**

BCR-R13-10-005R0, Additional TRU Large Package Repack

## MILESTONE STATUS

Tri-Party Agreement milestones represent significant events in project execution. RL Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The PRC Baseline Revision 2, submitted in January, defines CHPRC planning with respect to TPA milestones. The following table is a one year look ahead of key milestones.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comment
M-091-40G-T02	Retrieve CH-RSW 10,700 Cubic Meters (Cumulative)	TPA	9/30/10			Tentative Agreement approved on 4/20/10 is expected to delete this milestone.
M-091-42J-T02	Treat 200 Cubic Meters of CH TRUM by 9/30/10	TPA	9/30/10			Tentative Agreement approved on 4/20/10 is expected to delete this milestone.
P-091-44Z-001	Minimum Annual Project Manager Meeting Notification of Certification of CH/RH TRUM	TPA	12/31/10			On Schedule
M-091-41-T01	Initiate Full-Scale Retrieval of RH RSW	TPA	1/01/11		N/A	Tentative Agreement approved on 4/20/10 is expected to delete this milestone.
C-026-07F	Tritium Treatment Technology Developments to Ecology and EPA	TPA (commitment)	3/31/11			On Schedule
M-091-03E	Submit Annual Revision of TRUM and MLLW PMP to Ecology	TPA	6/30/11			On Schedule

## SELF-PERFORMED WORK

The Section H. clause entitled, Self-Performed Work, is addressed in the Monthly Report Overview.

## 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 CBFO.	Ongoing