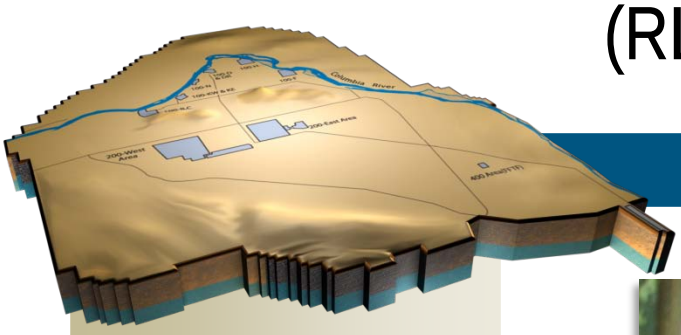
CH2MHILL
Plateau Remediation Company

Section A
Nuclear Materials Stabilization and Disposition of PFP (RL-0011)



Monthly Performance Report

Canyon Crane Repair

RMA/RMC D&D Room 235B, size reducing and removing the process equipment inside gloveboxes HA-19B1 and HA-19B2

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PROJECT SUMMARY

The PFP Project continues to maintain Plutonium Finishing Plant (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 2736ZB 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.

EMS Objectives and Target Status

Objective #	Objective	Target	Due Date	Status
10-EMS-PFP-OB1-T1	Reduce the environmental impacts of spills	Develop and implement effective measures that can be taken in advance of a spill to avoid or reduce the environmental consequences.	9/30/2010	On schedule
		Revise PFP spill response procedure consistent with revised company procedures.	2/28/2010	On schedule
		Develop and provide awareness, prevention, response and mitigation training (80% of project personnel)	9/30/2010	On schedule
		Establish and maintain a pre-designation central file for spills	9/30/2010	On schedule

TARGET ZERO PERFORMANCE

	CM Quantity	FYTD Quantity	Comment
Days Away, Restricted or Transferred	0	0	N/A
Total Recordable Injuries	0	0	N/A
First Aid Cases	15	30	**Base** – 1/4 – Employee received laceration to head. (20625) **Base** – 1/6 – Employee sprained ankle. (20636) **ARRA** – 1/5 – Employee received possible inhalation. (20638) **ARRA** – 1/13 – Employee received contusion to arm. (20648) **ARRA** – 1/13 – Employee received contusions to arm and chest. (20647) **Base** – 1/15 – Employee experienced neck strain. (20652) **Base** – 1/19 – Employee experienced muscle strain to back. (20654) **Base** – 1/20 – Employee received insect bite. (20658) **Base** – 1/25 – Employee experienced pain in elbow and shoulder. (20660) **Base** – 1/26 – Employee twisted ankle. (20663) **Base** – 1/27 – Employee received scratch to hand. (20667) **Base** – 1/27 – Employee received scratch to forearm. (20668) **ARRA** – 1/28 – Employee received contusion to upper arm and shoulder. (20674) **Base** – 1/28 – Employee received bruise on arm. (20673) **Base** – 1/28 – Employee experience pain in wrist. (20685)
Near-Misses	0	0	N/A

KEY ACCOMPLISHMENTS

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.

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.

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	
RL-0011/WBS 011				
PFP-001: Inability to Effectively Decon Equip/Materials to LLW	Develop decontamination approach and perform proof-of-principle testing early enough to minimize the potential for unanticipated TRU waste. Incorporate surgical removal of isolated TRU on gloveboxes into the baseline. Establish size-reduction containment with robust tools.	Working - Concern	Increased Confidence	Planning in progress to evaluate alternative decontamination process techniques and agents. Testing will follow. Provisions for surgical removal are complete. Planning is underway for size-reduction containment.
PFP-004: Risk of PRF Canyon D&D cost/schedule growth	Complete detailed planning/engineering for D&D of PRF canyon, particularly pencil tank removal and canyon decontamination.	Working - Concern	Increased Confidence	A dual approach has been identified for removal and disposition of pencil tanks in the PRF canyon (manual and mechanical size reduction).
PFP-004A: Risk of 291-Z D&D cost/schedule growth	Complete detailed planning/engineering for D&D of 291-Z, particularly characterization to quality scope.	Working - Concern	Increased Confidence	Characterization of 291-Z will be completed by the end of FY 2010.
PFP-009: Problems with Aging Building Systems/Components Impacts D&D	Perform critical system reliability assessments; procure critical spares; maintain existing redundancies. Procure new, Canberra continuous air monitors (CAMs) to replace less reliable existing CAMs.	Working - No Concerns	Increased Confidence	Replacement of failing CAMs is continuing; no new problems have been identified except for poor cooling system performance. See below.
PFP-009: Aging Building Systems Impact D&D/PRC-020: Weather Delays	Resolve high temperatures experienced in PFP D&D areas.	Working - No Concerns	Increased Confidence	A cooling system has been designed and will be installed.

PROJECT BASELINE PERFORMANCE
Current Month
($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	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)
ARRA	6.9	6.8	7.8	(0.1)	-0.8	(1.0)	-14.1	253.6
Base	3.6	3.4	3.4	(0.2)	-6.6	(0.0)	-1.3	375.9
Total	10.5	10.2	11.2	(0.3)	-2.8	(1.0)	-9.9	629.5

Numbers are rounded to the nearest $0.1M.

ARRA

CM Schedule Performance: (-$0.1M/-0.8%)
The Current Month Schedule Variance is within reporting threshold.

CM Cost Performance: (-$1.0M/-14.1%)
The current month negative cost variance is primarily the result of point adjustments associated with levelizing of resources with implementation of PMB, Revision 2, 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.

Base

CM Schedule Performance: (-$0.2M/-6.6%)
The Current Month Schedule variance is within reporting threshold.

CM Cost Performance: ($0.0M/-1.3%)
The Current Month Cost variance is within reporting threshold.

Contract-to-Date
($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	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)
ARRA	73.3	73.6	63.2	0.2	0.3	10.3	14.1	253.6
Base	91.9	91.8	90.6	(0.2)	-0.2	1.2	1.3	375.9
Total	165.3	165.3	153.8	0.0	0.0	11.5	7.0	629.5

Numbers are rounded to the nearest $0.1M.

ARRA

CTD Schedule Performance: (+$0.2M/+0.3%)
The Contract to Date Schedule Variance is within reporting threshold.

CTD Cost Performance: (+$10.3M/+14.1%)
The primary contributor to the cumulative positive cost variance (~$4.4M) is overhead allocations as discussed in Appendix C. The project is experiencing a labor rate under-run, which contributes +$2.0M 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 242Z, 2736Z/ZB, and Balance of 234-5Z projects to ARRA which will off-set the current and projected cost underrun.

Base

CTD Schedule Performance: (-$0.2M/+0.2%)
The Contract to Date Schedule Variance is within reporting threshold

CTD Cost Performance: (+$1.2M/+1.3%)
The cumulative favorable cost variance 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, 242Z and 2736Z/ZB work scope. With these efficiencies, early demolition of select Phase I ancillary facilities will be planned and executed.

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

FUNDS vs. SPEND FORECAST
($M)

WBS 011/RL-0011 Nuclear Matl Stab & Disp PFP	FY 2010 Projected Funding	FY 2010 Spending Forecast	FY 2010 Variance
ARRA	115.8	107.8	8.0
Base	57.1	63.0	(5.9)
Total	172.9	170.8	2.1

Funds/Variance Analysis
Projected funding includes FY 2009 un-costed and FY 2010 expected new budget authority. 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 a BCR to move work scope associated with 242Z, 2736Z/ZB, and Balance of 234-5Z to ARRA funding will mitigate the variance.

Critical Path Schedule
Critical Path analysis can be provided upon request.

Estimate at Completion (EAC)
The BAC and EAC now include FY 2009 through FY 2018, the PRC contract period.

Baseline Change Requests
BCR-PRC-10-011 PRC Baseline Rev. 2

MILESTONE STATUS

None at this time.

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)

None identified at this time.