



# **Section I**

## ***200 Area Remediation***

### **PROJECT MANAGERS**

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## INTRODUCTION

The 200 Area Remediation consists of Central Plateau Facility (CPF) Transition, the Equipment Disposition Project, and Central Plateau Waste Site Remediation, Project Baseline Summary (PBS) RL-CP01, Work Breakdown Structure (WBS) 3.3.1.5, 3.3.1.6, 3.3.1.7, 3.3.1.8, 3.3.1.9, 3.3.1.10, 3.3.1.11, 3.3.1.12, and 3.3.1.15.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2002.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that there are no milestones due this fiscal year.

## NOTABLE ACCOMPLISHMENTS

**Equipment Disposition Project** — All work on two cask cars was completed except for final lead disposition, recycling of the condenser was completed, and the final approval of the Notice of Construction (NOC) for the Ion Exchange Columns was received as planned.

**200 Area Shutdown Facilities** — Construction elevators are in place at B Plant and PUREX and approximately 40 percent of the framework assemblies were completed; the 224-T C Cell water removal baseline change request has been submitted to the FH Change Control Board, the C Cell pit multi-point liquid sampling was completed, and 80 percent of the field assemblies for the C Cell pit pumping system were completed as planned. In addition, the 242-T end point development and interim stabilization of the 211-S Tank Farm were completed as scheduled.

**233-S Facility** — The structural steel removal inside the 233-S Building was completed, two contamination areas were down-posted to radiological buffer areas, the request for proposal for facility characterization was issued, and all monthly preventive maintenance was completed as planned.

**Ground Water Remediation** — The request for proposal and subcontractor walk downs for installation of the two new CERCLA monitoring wells in the 200 West Area were completed as planned, and the 200-ZP-1 Pump & Treat drain valve leak was repaired and returned to service. The Pump & Treats continue to operate at an average of 98.5 percent availability.

**Waste Sites** — Use of the Geoprobe and cone penetrometer for carbon tetrachloride soil vapor sampling was initiated (71 locations have been sampled using the Geoprobe and 24 locations have been sampled using the cone penetrometer). In addition, a decisional draft of the 200-TW-1/TW-2 Remedial Investigation Report was submitted to RL for review on schedule and the 200-MW-1 RI/FS work plan was approved by the Environmental Protection Agency (EPA).

## SAFETY

All Central Plateau Remediation Project (CP) Safety and Conduct of Operations information is reported in section F.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

None to report.

### Opportunities for Improvement

None to report.

## UPCOMING ACTIVITIES

**Equipment Disposition Project** — Ship the Ion exchange columns by October 2002.

**Waste Sites** — Submit 200-TW-1 Scavenged Waste Group and 200-TW-2 Tank Waste Group OU RI Report to EPA & Ecology by October 30, 2002. Submit 1 200 NPL RI/FS Work Plan for the 200-IS-1 tanks/liners/pits/diversion boxes OU by December 31, 2002.

**200 Area Shutdown Facilities** — Complete installation of new roofs on PUREX & B Plant by November 30, 2002.

## MILESTONE ACHIEVEMENT FH Contract Milestones

MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-15-41B	Submit 200-TW-1 and 200-TW-2 OU Remedial Investigation Report to EPA and Ecology	TPA	10/30/02			On Schedule
TRP-38-803	Complete Installation of New Roofs on PUREX & B Plant	RL	11/30/02			On Schedule
M-24-00N	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY 2002, if required	TPA	12/31/02			On Schedule
M-13-00M	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/02			On Schedule
M-15-38A	Submit 200-CW-1 Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study	TPA	3/31/03			On Schedule
M-15-40B	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group Remedial Investigation Report	TPA	5/31/03			On Schedule
M-16-27C	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement	TPA	6/30/03			On Schedule
M-15-47	Submit a Proposed Plan to EPA and/or Ecology to conduct Remedial Action(s) for Source Control at High-Risk Waste Site(s)	TPA	6/30/03			On Schedule
M-15-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	TPA	9/30/03			On Schedule
M-13-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/03			
M-15-41C	Submit 200-TW-1 and 200-TW-2 OU Feasibility Study and Proposed Plan to EPA and Ecology	TPA	3/31/04			
M-15-39B	Submit 200-CS-1 Chemical Sewer Group Remedial Investigation Report	TPA	5/31/04			
M-13-00O	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/04			
M-15-43B	Submit 200-PW-2 OU Remedial Investigation Report Including Past Practice Waste Sites in 200-PW-4 General Process Waste Group	TPA	6/30/04			
TRP-38-802	Decontaminate and Decommission the 233-S and 233-SA Facilities	RL	6/30/04			
M-15-40C	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group Feasibility Study and Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group Proposed Plan	TPA	10/31/04			
TRP-38-805	Complete Equipment Disposition Project (PUREX Cars)	RL	8/31/05			
M-15-39C	Submit 200-CS-1 Chemical Sewer Group Feasibility Study and Submit 200 CS-1 Chemical Sewer Group Proposed Plan/Proposed RCRA Permit Modification	TPA	11/30/05			
M-20-39	Submit 216-S-10 Pond and Ditch Closure/Post Closure Plan to Ecology	TPA	11/30/05			
M-15-43C	Submit 200-PW-2 OU Feasibility Study and Proposed Plan/Proposed RCRA Permit Modification	TPA	12/31/05			
M-20-33	Submit 216-A-10 Crib, 216-A-36B Crib, 216-A-37-1 Crib, and 207-A South Retention Basin Closure/ Post Closure Plans to Ecology	TPA	12/31/05			
TRP-38-804	Complete Equipment Disposition Project (212R Cars)	RL	6/30/06			

## PERFORMANCE OBJECTIVES

### Outcomes: Transition Central Plateau to support long-term waste management

Performance Indicator	Status
<b>FHI-M3 – 200 Area Facility Disposition</b> Measure 1: Disposition Surplus Buildings and Rolling Stock Expectation 1: Base: Decontaminate & Decommission (D&D) 233-S & 233-SA Facilities by September 30, 2004.  Stretch: D&D 233-S & 233-SA by June 30, 2004.  Expectation 2: Complete installation of new roofs on PUREX & B Plant by November 30, 2002.  Expectation 3: Base: Disposition contaminated railcars by June 30, 2006.  Stretch: Disposition contaminated railcars by August 31, 2005.  Super stretch: Disposition contaminated railcars and heavy equipment by September 30, 2003.	<p>Staffing shortfalls during July 1, 2002 transition delayed initiation of fieldwork for approximately two months. Staffing shortfalls have now been resolved, fieldwork has been initiated, and a recovery schedule is being developed. Funding shortfall in FY 2003 may also impact PI.</p> <p>Staffing shortfalls during July 1, 2002 transition delayed initiation of fieldwork for approximately two months. Staffing shortfalls have now been resolved, fieldwork has been initiated, and a recovery schedule is being developed. Funding shortfall in FY 2003 may also impact PI.</p> <p>The existing Authorization Basis (AB) for PUREX and B Plant do not cover the use of cranes for lifting roofing materials to the roofs. An addendum to the AB has been approved by RL. The roofing sub-contractor has received authorization from FH to acquire and stage the cranes. Work is on schedule.</p> <p>Recycling of the three cask cars planned for FY 2001 and FY 2002 is complete with the exception of recycling the lead from the two FY 2002 cars, which should be complete by January 1, 2003. Completed preliminary radiological surveys and equipment condition evaluations for reuse on the eleven flatcars in the PUREX Rail Cut.</p> <p>Both T-Plant flat cars are ready for excess and the Spent Nuclear Fuel burial box from T-Plant is at ATG being processed. The disposition of the 183K Ion Exchange Columns is forecast to be complete by mid-November.</p>

## FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

Sub-Project		BCWS	BCWP	ACWP	SV	%	CV	%	BAC
PBS CP01 WBS 3.3.1.5	Central Plateau Facility S&M	4,246	2,715	3,923	(1,531)	-36%	(1,208)	-44%	6,334
PBS CP01 WBS 3.3.1.7	Central Plateau Facility D&D	856	416	368	(440)	-51%	47	11%	1,286
PBS CP01 WBS 3.3.1.8	Central Plateau Project Management	3,628	3,572	2,991	(57)	-2%	581	16%	4,138
PBS CP01 WBS 3.3.1.9	Equipment Disposition Project	4,241	3,888	1,624	(353)	-8%	2,265	58%	5,199
PBS CP01 WBS 3.3.1.10	Groundwater Remediation	310	296	532	(14)	-4%	(236)	-80%	505
PBS CP01 WBS 3.3.1.11	Waste Site Assessments	1,022	514	242	(509)	-50%	271	53%	1,894
PBS CP01 WBS 3.3.1.12	Barrier Technology Studies	844	845	650	1	0%	196	23%	1,386
<b>Total 200 Area Remediation</b>		<b>15,148</b>	<b>12,245</b>	<b>10,329</b>	<b>(2,902)</b>	<b>-19%</b>	<b>1,916</b>	<b>16%</b>	<b>20,742</b>

### FY TO DATE SCHEDULE / COST PERFORMANCE

The unfavorable schedule variance of \$2.9M (19 percent) was primarily due to the B Plant/PUREX roof replacement work scope delay caused by the need to revise the Authorization Basis (AB) for PUREX and B Plant to cover the use of cranes for lifting roofing materials to the roofs and the 224-T characterization work scope delays. The favorable cost variance of \$1.9M (16 percent) is primarily due to Equipment Disposition Project work completed at a substantial savings, and Central Plateau Facility D&D staffing below planned levels, which is offset by the unplanned costs related to the increase in the 224T characterization work scope.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

### Schedule Variance Analysis: (-\$2.9M)

#### Central Plateau Facility S&M – 3.3.1.5/CP01

**Description and Cause:** The unfavorable schedule variance is primarily due to the B Plant/PUREX roof replacement work scope delay to cover the use of cranes for lifting roofing materials to the roofs and the discovery of water in 224-T C Cell. In addition, format issues have delayed progress on MDSA activities.

**Impact:** The discovery of water in 224-T C Cell will increase the work scope and delay completion of characterization by about four months. Format issues have significantly delayed progress on Master Documented Safety Analysis (MDSA) activities, but it is anticipated that the schedule can be recovered.

**Corrective Action:** An addendum to the Authorization Basis was approved by RL that will allow the use of cranes. Activities have been re-planned to remove 224-T C Cell water, correct the source of water intrusion, and continue characterization activities. However, the variance due to water removal will remain until the baseline is updated to reflect the growth of new work scope and corresponding delays. Activities have been re-planned to submit a DOE STD 1120 crosswalk in place of the MDSA format.

**Central Plateau Facility D&D — 3.3.1.7/CP01**

**Description and Cause:** The unfavorable schedule variance is primarily due to inability to obtain planned project personnel, which caused a delay in activities.

**Impact:** Short-term impact is continued schedule delay until recovery schedule is implemented.

**Corrective Action:** Staffing shortfalls have now been resolved, fieldwork has been initiated, and a recovery schedule is being developed.

**Waste Site Assessments — 3.3.1.11/CP01**

**Description and Cause:** The unfavorable schedule variance is primarily due to delays caused by transition related activities, and acquisition of equipment/contracts.

**Impact:** None.

**Corrective Action:** The work is expected to be complete during the first quarter of FY 2003.

All other schedule variances are within established thresholds.

## Cost Variance Analysis: (+ \$1.9M)

**Central Plateau Facility S&M — 3.3.1.5/CP01**

**Description and Cause:** The unfavorable cost variance was primarily due to Notice of Construction (NOC) related costs that were not in the original planning for 224-T, and the discovery of water in 224-T C Cell. In addition, B Plant/PUREX roof materials were received (accrued) prior to the start of installation, making it difficult to determine and claim work performed.

**Impact:** The discovery of water in 224-T C Cell will increase the workscope/cost necessary to complete characterization.

**Corrective Action:** Activities have been re-planned to remove water at 224-T C Cell, correct the source of water intrusion, and continue characterization activities. The B Plant/PUREX variance should improve as installation progresses.

**Central Plateau Facility D&D — 3.3.1.7/CP01**

**Description and Cause:** The favorable variance is primarily due to high level-of-effort activity in the Project Management/Support cost account, and actual staffing below planned levels, causing overstated performance relative to actual cost.

**Impact:** Positive cost variance will reduce as additional personnel are hired and material/equipment costs are committed.

**Corrective Action:** Target personnel levels nearly attained.

**Central Plateau Facility Project Mgt — 3.3.1.8/CP01**

**Description and Cause:** The favorable cost variance is caused by Special Projects staff who have been charging to other projects most of the year.

**Impact:** No Impact.

**Corrective Action:** No corrective action required.

**Equipment Disposition Project — 3.3.1.9/CP01**

**Description and Cause:** The favorable cost variance was primarily due to heavy equipment, flatcar and cask car work scope completed at a substantial savings.

**Impact:** No Impact.

**Corrective Action:** No corrective action required.

**Groundwater Remediation — 3.3.1.10/CP01**

**Description and Cause:** The unfavorable cost variance is primarily due to a contract being set up in this account, which supports activities in WBS 3.3.1.11.

**Impact:** Current overrun will be reduced as costs are corrected.

**Corrective Action:** Complete cost transfers as appropriate to redistribute charges to the correct accounts.

**Waste Site Assessments — 3.3.1.11/CP01**

**Description and Cause:** The favorable cost variance is primarily due to pending cost transfers for subcontract cost collection during transition, and planned training costs less than expected.

**Impact:** Current under run will be reduced as costs are corrected.

**Corrective Action:** Complete cost transfers as appropriate to redistribute charges to the correct accounts.

**Barrier Technology Studies — 3.3.1.12/CP01**

**Description and Cause:** The favorable variance is primarily due to lower than planned contract and labor costs.

**Impact:** None.

**Corrective Action:** No corrective action required.

## ISSUES

### Technical Issues

**Issue:** Staffing shortfall and potential loss of project knowledge, tied to 200 Area Central Plateau Bechtel Hanford Transition.

**Impact:** Personnel transferred from BHI to FH may not be sufficient in numbers or experience to allow all work to continue without interruption.

**Action Plan/Status:** Staffing shortfalls have now been resolved, fieldwork has been initiated, and a recovery schedule is being developed. A baseline change request has been drafted to document the eight-week delay in work at the 233-S Facility. (This will be the last report for this item.)

### Regulatory, External, and DOE Issues and DOE Requests

None to report.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

BCR No. Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
CP01-02-011 3.3.1.5	5/22/02	224-T C Cell Water Removal and Remediation	104	\$33		BCR submitted to FH CCB for concurrence and transmittal to RL
CP01-02-012 3.3.1.7	9/3/02	233-S Structural Steel Removal	20	\$125		BCR to be reviewed by the CP CCB week of September 16th.
CP01-02-013 3.3.1.7	9/3/02	233-S Staffing Delay Impacts	40	(\$201)		BCR to be reviewed by the CP CCB week of September 16th.