River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
December 10, 2009

Approval: Jane A. Hedges by John Price — Date: 1-21-2010

J. Hedges
Ecology IAMIT Representative

Approval: [signature] — Date: 1/21/10

M.S. McCormick
DOE IAMIT Representative

Approval: [signature] — Date: 1/21/2010

for **D.A. Faulk**
EPA IAMIT Representative, Chairperson

Minutes Prepared by: [signature] — Date: 1/25/10

T.W. Noland
Mission Support Alliance, LLC

Balone, S.N.*	RL
Bignell, D.T.	WCH
Blackburn J.E.*	WCH
Bond, R.*	Ecology
Bohnee, G.	NPT
Buelow, L.C.	EPA
Brown, M.J.	Ecology
Call, P.K.	RL
Cameron, C.E.	EPA
Cimon, S.	ODE
Dagan, E.B.*	RL
Donnelly, J.W.*	WCH
Einan, D.R.	EPA
Engelmann, R.H.	CHPRC
Faulk, D.A.*	EPA
Franco, J.R.*	RL
French, M.S.*	RL
Gadbois, L.E.	EPA
Glossbrenner, E.T.	RL
Guercia, R.F.	RL
Guzzetti, C.J.*	EPA
Harris, S.	CTUIR
Hedges, J.*	Ecology
Henry, D.	OOE
Jim, R.	Yakama
Johnson, W.F.*	WCH
Jones, M.E.	Ecology
Knox, K.E.*	KCR
LaRue, D.N.	WCH
Lobos, R.A.	EPA
McCormick, M.S.	RL
Menard, N.M.*	Ecology
Morrison, R.D.*	YAH
Niles, K.	OOE
Noland, T.W.*	MSA
Norman, D.L.*	CHPRC
Piippo, R.E.	MSA
Post, T.C.	RL
Potter, R.D.	MSA
Price, J.B.*	Ecology
Riffe, D.J.	CHPRC
Russell, R.W.	ORP
Sands, J.P.	RL
Skinnarland, E.R.	Ecology
Smith, D.C.	RL
Teynor, T.K.	RL
Watson, D.J.*	CHPRC
Weil, S.R.	RL
Whalen, C.	Ecology
Williams, J.D.*	CHPRC
Wintczak, T.M.	WCH
Wise, B.K.	MSA
Administrative Record	

*Attendees

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River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
December 10, 2009

River Corridor Closure Project - Milestones M-16/M-89/M-93/M-94

DOE-RL distributed a handout on the quarterly summary for the period September through November 2009, the milestone status, significant accomplishments, significant actions planned, performance summary and issues.

Quarterly Summary

DOE stated that Milestone M-16-51-TO1 is considered complete, and the Cleanup Verification Package (CVP) has been submitted to Ecology. Ecology noted that it is withholding judgment on whether the milestone has been met until the CVP review has been completed.

TPA Milestone Status Report

M-16-94, Complete Interim Remedial Actions at 100-B-11, et al.

DOE stated that all of the remedial actions for the areas under this milestone have been completed, and backfill of the remediated sites has started with the exception of 100-B-27. Additional sampling in the rewetted zone in B-27 is planned to gain more information about the chromium plume, and the sampling plan for 100-B-27 is ready to be approved. Sampling will be delayed due to current frozen conditions.

M-16-51, Complete Interim Remedial Actions for 100-H Area

DOE stated that issues on the 128-H-2 and 128-H-3 waste site reclassification forms had been resolved at the project manager level. The forms have been resubmitted for Ecology approval.

M-16-47, Complete Interim Remedial Actions for 100-D Area

Ecology inquired about change package M-16-09-06, which removes 100-D-31 pipeline segment 12 from milestone M-16-47. Pipeline segment 12 is associated with the 183-D building, which will be taken out at the same time the pipeline is removed. WCH responded that until the bat study is completed, a date for completion of 100-D-31 cannot be established. Ecology stated that if a waste site is removed from a milestone, it should be clearly stated what milestone it will be moved to.

M-89-00, Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault

DOE reported that the liner under the sump in B-Cell has a hole, which may result in additional remediation of the soil underneath B-Cell. Ecology stated that the concrete over the liner was very thick and no visible cracks had been noted. DOE responded that there was a construction joint in the concrete next to the hole in the liner.

Significant Actions Planned - For Next 3 Months

EPA inquired about the River Corridor Risk Assessment, noting that it was to be received by February 2010, but is now delayed. DOE responded that an assessment is being done to determine whether any of the fish sampling results from the river remedial investigation will be incorporated into the risk assessment. WCH added that it is coordinating with CHPRC to ensure they both have the same strategy on their respective risk assessments. EPA stated that completing the risk assessment this fiscal year is a top priority.

M-16 - Remedial Action/Risk Assessment

Ecology suggested striking one sentence in the Remedial Investigation/Field Study (RI/FS) work plan regarding DOE retaining land ownership forever, which would clear the way to approve the work plan. DOE agreed to review that area of the work plan and provide a response to Ecology and EPA.

M-94 - 300 Area Surplus Facilities Disposition

The 310 Treated Effluent Disposal Facility (TEDF) was shut down at the end of September 2009, and tie-ins to the utility upgrades and the new process sewer system in the 300 Area are under way.

Performance Summary

DOE reported that from a contract performance standpoint to date, the River Corridor project is ahead of schedule and under budget. The American Reinvestment and Recovery Act (ARRA) Phase I baseline was approved in September 2009 for $100 million. The ARRA funding is being tracked separately. Phase II of the ARRA work for the River Corridor is anticipated to start in late January with another $100 million.

RCC Issues

DOE stated that the revised Feasibility Study and Proposed Plan (FS/PP) for the chromium-contaminated soils will be transmitted to the regulators on January 4, 2010.

Remediation of 100-K Area - Milestones M-16 and M-93

A summary of the TPA milestone status, significant accomplishments and status, work planned in the next six months, 100K project risk status, and project performance was provided.

Milestone M-16-57, Initiate Soil Remediation at K East Basin. Initiate Full Scale Remedial Action of the 100KE Fuel Storage Basin Site Within One Month of Completing Milestone M-16-160

The soil remediation at K East Basin is ongoing. EPA inquired about the main contaminants. DOE stated that a detailed sampling hasn't been done yet. The radiation readings have shown high rad levels, but the specific isotopes have not been identified. The contamination could be coming from remaining rubble from the concrete floor.

M-93-22, Complete 105KE Reactor Interim Safe Storage In Accordance with the Remedial Design/Remedial Action Work Plan

DOE stated that the current focus is on core removal. DOE will schedule a meeting with EPA and Ecology to discuss what is being proposed for the Engineering Evaluation and Cost Analysis (EE/CA) in an effort for the Tri-Parties to agree on a path forward. DOE noted that it is following the process at the Brookhaven reactor to gain lessons learned.

Significant Accomplishments and Status

Sludge Treatment Project (STP)

DOE stated that under ARRA funding, utility rerouting for the STP project is under way to support operation of the area as a separate entity.

100K Project Risk Status

EPA asked when critical decision one (CD-1) for sludge treatment is expected. DOE responded that it is scheduled for either March or May of 2010. CD-1 will include the C-140 container sludge and the settler tube sludge. The knockout-pot sludge will not be included in CD-1, and it will be dispositioned as spent fuel. DOE will provide EPA information regarding the CD-1 schedule for the STP project.

Project Performance

Overall, PBS RL-12, which covers facility operations, sludge work, basin deactivation, etc., is ahead of schedule with a slight negative cost variance. PBS RL-41, which covers remediation, facility D4, etc., has a 7.4 million negative schedule variance and a 14.7 million positive cost variance.

Tri-Party Agreement

December 10, 2009

River Corridor/Remediation of 100-K Area Milestone Review

Place: EPA Conference Room, 309 Bradley Boulevard, Suite 115, Richland, WA
Time: 10:00 am - 11:00 am
Chairperson: Dennis Faulk

Agenda

10:00 am	M-16-00	Complete Remedial Actions
	M-93-00	Disposition of Surplus Reactors
	M-94-00	300 Area Surplus Facilities
	M-89-00	324 Bldg. Closure of MW Units
10:30 am	M-16-00C	Remediation of 100-K Area
	M-16-52	
	M-16-53	
	M-16-57	
	M-16-140	
	M-16-143	
	M-16-145	
	M-16-150	
	M-16-155	
	M-16-160	
	M-93-22	
11:00 am	Adjourn Milestone Review	

Tri-Party Agreement Major Milestone Management Review
December 10, 2009

Name	Organization	Mail Stop	Phone
Terry Noland	MSA TPA		376-6574
Kathy Knox	Knox Court Reporting		946-5535
[illegible]	WCH		372-2043
Nina Menard	Ecology		372-7941
Steve Balone	DOE/RL		376-0286
John Price	Ecology		372-7921
Rick Bond	Ecology		372-7885
Chris Guzzetti	EPA		376-9529
Dennis Faulk	EPA		
Mark French	DOE		373-9863
RON MORRISON	YAKAMA		376-2994
Janice Williams	CHPRC		372-3553

Tri-Party Agreement Major Milestone Management Review

December 10, 2009

Name	Organization	Mail Stop	Phone
Ellen Dragan	[illegible]		
Melinda J. Brown	Ecology		372-7889
Jeb Blackburn	WCH		372-[illegible]
Wayne Johnson	WCH		
David Watson	CHPRC		458-6731
Dottie Norman	CHPRC		205 8670
JANE HEDGES	ECOLOGY		372-7905
JOE FRANCO	DOE/RL		376 6628

RIVER CORRIDOR CLOSURE PROJECT

TPA Quarterly Review

For Period: September - November 2009

Tri-Party Agreement

River Corridor Milestones:

M-16	M-93
M-89	M-94

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

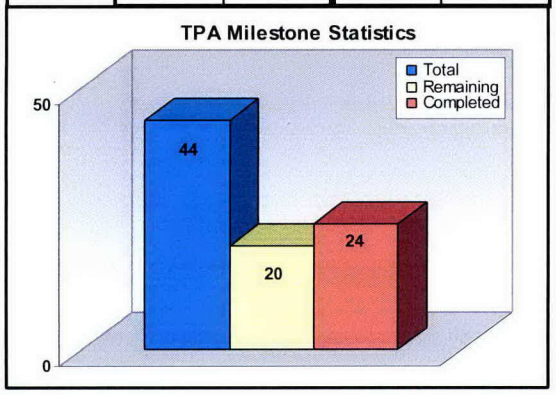
December 10, 2009

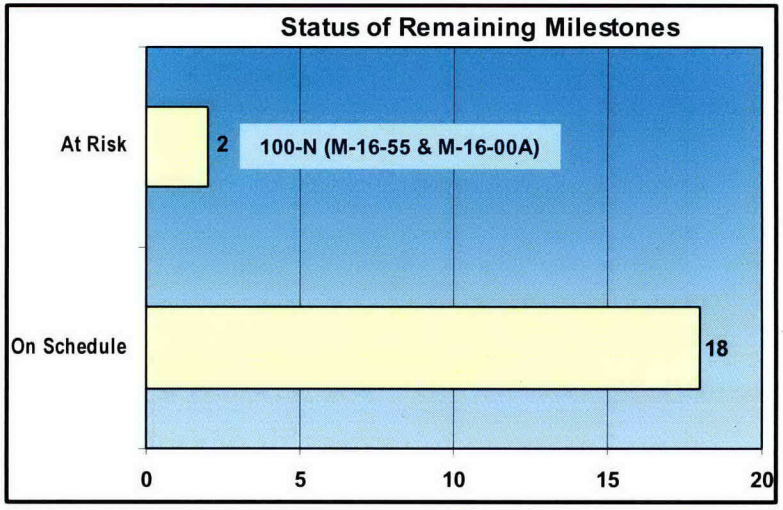
Protecting the Columbia River

E0803018

TPA Milestone Statistics
(Includes Target and Commitment Milestones)

Total	Remaining	Completed	Completed On	Completed Ahead
44	20	24	4	20





Quarterly Summary (September – November 2009)

- Completed two TPA milestones:
  - -- M-16-51-T01 – Complete Excavation of 1 of 5 100-H Burial Grounds (due 12/31/09) – 9/30/09
  - -- M-94-03 – Complete Disposition of Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225 (due 9/30/10) – 9/9/09

- Approved TPA change request:
  - -- M-16-09-07 – Removed revegetation activities from 300 Area milestones M-16-62, M-16-64, and M-16-74, but established new milestone (M-16-139 due 3/31/13) that oversees revegetation for these milestones. 316-4 waste site was also removed from M-16-62, and is governed by M-16-00B.

TPA Milestone Status Report

Status as of: November 30, 2009

	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
	M-16 Milestones - Remedial Action (milestones through 12/31/2011)				
1	M-16-51-T01	12/31/2009	Complete Excavation of 1 of 5 100-H Burial Grounds (118-H-1, 118-H-2, 118-H-3, 118-H-4, or 118-H-5)	Complete	Milestone completed on 9/30/09 (118-H-5). RL submitted the CVP on 10/6/09, and Ecology provided comments on 11/17/09.
2	M-16-64	09/30/2010	Complete Interim Remedial Actions, Except Revegetation, for the Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, and 618-1) (see Table 2 in TPA CR M-16-01-06)	On Schedule	Completion expected summer 2010.
3	M-16-94	11/30/2010	Complete Interim Remedial Actions at 100-B-11, 100-B-14, 100-B-16, 118-B-9, 100-C-9, 600-232, 100-B-18, 100-B-19, 100-B-20, 100-B-21, 100-B-22, 100-B-23, 100-B-24, 100-B-25, 100-B-26, 100-B-27, 100-B-28, 118-C-3:3, 126-B-2, 600-230, 100-B-17, 600-233	On Schedule	Backfilling in progress and revegetation will follow. Backfill of 100-B-27 is rescheduled to allow additional sampling.
4	M-16-51-T02	12/31/2010	Complete Excavation of a Total of 3 of 5 100-H Burial Grounds (118-H-1, 118-H-2, 118-H-3, 118-H-4, or 118-H-5)	On Schedule	
5	M-16-51	12/31/2011	Complete Interim Remedial Actions for 100-H Area	On Schedule	RL resubmitting Waste Site Reclassification Forms for 128-H-2 and 128-H-3.
6	M-16-47	12/31/2011	Complete Interim Remedial Actions for 100-D Area	On Schedule	RL finalizing TPA change package M-16-09-06 to remove 100-D-31 Segment 12. Approval expected in December 2009.

TPA Milestone Status Report

Status as of: November 30, 2009

	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
	M-89 Milestone - 324 Bldg Non-Permitted MW Units Closure				
1	**M-89-00**	09/30/2012	Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault	On Schedule	Initiated B-Cell decontamination.
	M-93 Milestone - Reactors Final Disposition				
1	**M-93-20**	09/30/2012	Complete 105-N Reactor Interim Safe Storage (ISS)	On Schedule	ISS in progress.
	M-94 Milestones - 300 Area Surplus Facilities Disposition (milestones through 12/31/2011)				
1	**M-94-03**	09/30/2010	Complete Disposition of Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225	Complete	3221,3222,3223,3224 demolished May 2002 by Fluor Hanford. WCH completion: 334 and 3225 (Nov 2005), 334A (Dec 2005), 333 (Feb 2008), 303M below-grade (Jan 2009), 332 (Aug 2009). Milestone was completed on 9/9/09.
2	**M-94-08**	12/31/2011	Complete the Selected Removal and/or Remedial Actions for 11 of the Following High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 327, 333, 340, 3706, and 3720	On Schedule	Bldgs 305B, 306E, 333 completed under M-94-06 (March 2008). Bldgs 3706, 306W, 3720 completed under M-94-07 (March 2009).

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Initiated 100-B/C backfill campaign.
- Initiated anomaly characterization activities and continued confirmatory sampling at 100-H Area.
- Initiated excavation of 118-K-1 Burial Ground.
- Awarded 100-IU-2/6 subcontract; initiated remediation.
- Completed excavation and loadout of 618-1 and adjacent sites.
- Continued Phase IIb (indicator contaminant screening) fieldwork for groundwater upwelling survey using the Trident Probe technology (in support of remedial investigation of Hanford Site releases to Columbia River). Collected 218 of 240 planned samples as of 11/22/09.
- Discussed recommendations with regulators for Phase III characterization activities (full suite analysis based on Phase IIb data) for 100-B/C and 300 Areas.
- Submitted the 100-FR-2 OU Remedial Action Report, Rev. 0.
- Approved 2 waste site closure documents during this reporting period.
- ARRA – Completed 618-10 geophysics vertical pipe unit delineation prove-out plan.

M-89 – 324 Bldg Non-Permitted MW Units Closure:

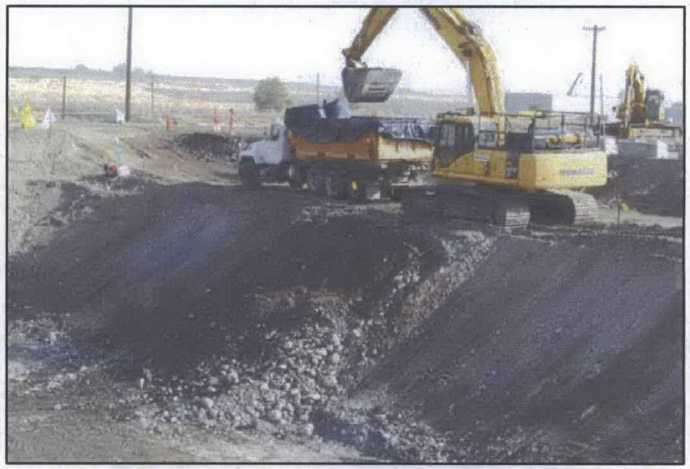
- Initiated 324 B-Cell decontamination.
- Continued characterization and demolition planning.

M-93 – Reactors Final Disposition:

- Completed all 109N hazardous material removal and demolition.
- Began 105N hazardous material and demolition activities.

M-94 – 300 Area Surplus Facilities Disposition:

- Completed wire sawing hot cells in 327 facility.
- Completed below-grade demolition and loadout of 384 Power House.
- Continued asbestos panel removal on 338 Maintenance Building.



Loading Out Material from 618-1 Segment 4

Trident Probe and Frame in Laboratory

Significant Accomplishments – For Last 3 Months (cont'd):

Other:

- Started ERDF "Ready to Serve" initiative.
- Started revegetation of ERDF Cells 3/4 interim cover.
- For period of September through November 2009, disposed more than 265,000 tons of waste in ERDF.
- ARRA – Excavated ~ 1.3M cubic yards (CY) of estimated 1.7M CY for construction of ERDF Cell 9.
- ARRA – Received EPA approval for design of Cells 9/10.
- ARRA – Completed Phase II container transfer area (CTA) upgrades for other Hanford contractors' (OHCs) containers.
- ARRA – Received 128 of 150 new containers.

Completed ERDF CTA Upgrade for CHPRC Containers

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Revegetate 100-B/C sites.
- Begin 118-K-1 Burial Ground loadout.
- ARRA – Initiate 618-10 radiological characterization.
- Support remedial investigation for Hanford Site releases to the Columbia River by: 1) completing groundwater upwelling screening and characterization (Phase IIb and Phase III) activities and 2) completing walleye, sucker, and carp collection activities.
- Initiate remedial investigation field work (coordinating with Groundwater), pending approval of the 100 Area Integrated Work Plan, Addenda, and SAPs.

M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:

- Continue B-Cell decontamination and shifting the facility over to temporary power.
- Continue deactivation and demolition planning activities.

M-93 – Reactors Final Disposition:

- Begin 105N safe storage enclosure (SSE) design.
- Begin 105N excavation, below-grade demolition, and equipment removal.

M-94 – 300 Area Surplus Facilities Disposition:

- Complete demolition of 336 and 338.
- Continue shipping gloveboxes from 308 laboratory to Perma-Fix.
- Accept transfer of 307 Basins, 310 TEDF, and 340 facilities for disposition.

Other:

- ARRA – Complete excavation of ERDF Cell 9.
- ARRA – Issue design RFP for ERDF Container, Equipment, and Truck Maintenance Facilities.
- ARRA – Award contract for design of ERDF Fueling Station and Septic System.

PERFORMANCE SUMMARY (includes ARRA Phase 1)

Contract Inception (8/25/05) through November 2009

($K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
						SCHEDULE VAR ($)		COST VAR ($)	
	BCWS	EAC	BCWS	BCWP	ACWP	*Aug*	Nov	*Aug*	Nov
D4	650,077	473,975	253,672	315,338	200,171	*65,200*	61,666	*110,839*	115,167
Reactor ISS	118,178	113,155	58,868	44,596	39,670	*-12,682*	-14,272	*3,742*	4,926
Field Remediation	536,137	559,205	236,297	254,208	225,913	*26,995*	17,911	*21,467*	28,295
Waste Operations	378,386	371,312	138,285	168,714	171,335	*21,316*	30,429	*-8,296*	-2,621
ESFC	51,126	55,413	32,046	32,231	30,185	*387*	185	*2,584*	2,046
Mission/General Support	325,049	343,584	167,008	167,008	173,027	*0*	0	*-5,545*	-6,019
Transition	3,979	3,747	3,979	3,979	3,747	*0*	0	*232*	232
Contingency	190,547	190,547							
TARGET COST TOTAL	**2,253,479**	**2,110,938**	**890,156**	**986,074**	**844,048**	***101,215***	**95,918**	***125,022***	**142,025**

Schedule Variance (PMB): $95,918K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Stop-work at KE/KW Reactor ISS (RL direction).
- 100-D/H burial grounds accelerations and early completion of 100-B-14 and 100-C-9; partially offset by delays at 100-K burial grounds, 300 Area waste sites and 618-10/11 Burial Grounds.
- Transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): $142,025K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- 100-D/F/H and 300 Area burial grounds remediation underruns. Partially offset by 618-7 anomalies, increased costs for 118-K-1 remediation and interim shutdown costs, and by significant project support costs at all active dig sites.

ARRA - PHASE 1

Performance Summary

April 2009 through November 2009

($K)

	IPB		CUMULATIVE				
	BCWS	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR ($)	COST VAR ($)
RL0041.R1.2 - ERDF	81,485	81,485	13,312	18,660	19,766	5,348	-1,106
RL0041.R1.2 - M/G Support	1,704	1,704	1,506	1,506	1,460	0	46
RL0041.R2 - 618-10	11,099	11,099	3,067	3,530	5,106	463	-1,576
Contingency	5,569	5,569					
TARGET COST TOTAL	**99,857**	**99,857**	**17,885**	**23,695**	**26,331**	**5,811**	**-2,636**

Schedule Variance (PMB): $5,811K

- ERDF equipment purchases and various projects are running ahead of schedule.
- Cone penetrometer installation ahead of schedule.

Cost Variance (PMB): ($2,636K)

- Various ERDF disposal upgrade projects experiencing cost overruns.
- 618-10 design iterations for the water supply have increased costs above the plan as well as ARRA training costs.
- There is co-mingling of 618-10 Phase 1 costs with Phase 2 not-to-exceed (NTE) costs where the two phases share charge codes.
- A large portion of the cost variance (~$600K) results from the Phase 1 negotiations pushing $1.5M of non-intrusive characterization non-site specific support (NSSS) budget from Phase 1 to Phase 2.

RCC Issues

- Obtain Ecology approval of Waste Site Reclassification Forms (WSRFs) for 128-H-2 and 128-H-3. Issue resolved at project manager level.
- Determine path forward for using in-situ treatment for chromium-contaminated soils.
- Planning for remediation of 100-C-7 in conjunction with planning for the export water line relocation/replacement.

Hanford 100-K Remediation

Tri-Party Agreement Milestone Review

for Applicable
M-16 and M-93
Milestones

U.S. Department of Energy
Richland Operations Office (RL)
River Corridor Project

December 10, 2009

TPA Milestone Status

Remaining Milestones Due Fiscal Year 2009-2010

Number	Milestone Title	Due Date	Status / Comments
M-16-00C	COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100K AREA.	TBD	See M-16-140
M-16-53	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100K AREA WITHIN THE PERIMETER BOUNDARY AND TO THE RIVER FOR PHASE 1 ACTIONS.	12/31/2012	On Schedule
M-16-57	INITIATE SOIL REMEDIATION AT K EAST BASIN. INITIATE FULL SCALE REMEDIAL ACTION OF THE 105KE FUEL STORAGE BASIN SITE WITHIN ONE MONTH OF COMPLETING MILESTONE M-16-160.	10/31/2009	Complete 09/27/2009
M-16-140	SUBMIT REVISED RD/RA WORK PLANS FOR 100 K AREA RODS AS PRIMARY DOCUMENT(S) PER HFFACO 11.6 WITH NEW PROPOSED MILESTONES INCLUDING FOR THE FOLLOWING: • COMPLETE REMOVAL OF THE K WEST BASIN • COMPLETE REMOVAL OF ALL SLUDGE (INCLUDES CONTAINER, SETTLER TANK SLUDGE) FROM K WEST BASIN EXCEPT KNOCKOUT POT CONTENTS. • COMPLETE REMOVAL OF KNOCKOUT POT CONTENTS. • COMPLETE TREATMENT AND PACKAGING OF FIRST CONTAINER OF TRU SLUDGE WASTE CERTIFIABLE FOR DISPOSAL AT WIPP. • COMPLETE TREATMENT AND PACKAGING OF SLUDGE FOR DISPOSAL AT WIPP. • BEGIN 105KW REACTOR INTERIM SAFE STORAGE. • COMPLETE 105KW REACTOR INTERIM SAFE STORAGE. • INITIATE SOIL REMEDIATION UNDER K WEST BASIN • COMPLETE ALL INTERIM RESPONSE ACTIONS AT THE 100K AREA.	03/31/2011	On Schedule On Schedule On Schedule On Schedule On Schedule On Schedule On Schedule On Schedule On Schedule
M-16-143	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100K AREA WITHIN THE PERIMETER BOUNDARY AND TO THE RIVER FOR PHASE 2 ACTIONS.	12/31/2015	On Schedule
M-16-145	COMPLETE THE INTERIM RESPONSE ACTIONS FOR 100K AREA FACILITIES AND WASTE SITES NOT INCLUDED AS PHASE 1, PHASE 2, OR PHASE 3 WORK.	12/31/2012	On Schedule
M-93-22	COMPLETE 105KE REACTOR INTERIM SAFE STORAGE IN ACCORDANCE WITH THE REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN.	07/31/2014	On Schedule Current planning is focused on reactor core removal vs. interim safe storage

Significant Accomplishments and Status

D4

- Completed demolition of the following:
  - 105KE Basin substructure
  - 1706KE Superstructure
  - 183.1KW Bauxite storage tank
  - 118KE Horizontal Control Rod Cave
  - 110KE Gas Storage Facility
- Completed mechanical isolation of the following:
  - 183.1KW through 183.7KW Water Treatment Complex
  - 182K Diesel Emergency Pump House
  - 115KE Gas Recirculation Building
  - 116KE Reactor Stack Sample Building
  - 117KE Filter Building for K East Reactor Stack
- Sampled the filter media to the 183.3KW filter beds
- Glycol discovered held up in a 165KW heating system is in the process of being shipped to an off-site waste management facility.
- Breached the exterior concrete walls to the 183.2KW sedimentation basins to facilitate the characterization of the basin floor and soil underneath the basins.

Significant Accomplishments and Status - continued

Sludge Treatment Project (STP)

- Quality Assurance Project Plan / Sampling and Analysis Plan for the characterization of Settler Tank sludge was approved.
- Readiness activities were completed and successful startup of a new process for transferring SettlerTank Sludge to Container 230 occurred on December 8, 2009.
- Completed bench-scale settling tests at the Maintenance and Storage Facility (MASF) using simulants in support of design of systems to load the Sludge Transfer and Storage Containers (STSCs) with sludge. Results will be compared to planned settling tests at PNNL using actual sludge samples.
- Knockout Pot (KOP) Phase 4 in-basin inspections and data evaluations of the KOP material is complete. This purpose of this inspection was to learn more about particle size distribution, density, and radiation levels. A draft of the final KOP In-Basin Inspection Report covering the results of all four inspection phases is in preparation.
- KOP washing was successful in washing small particles from the KOP material so that the washed material is no longer considered to be contaminated by PCBs. The focus of the next round of washing will be to remove low density material from the KOP material.

Significant Accomplishments and Status - continued

Sludge Treatment Project (STP) – continued

- The information and observations obtained from the in-basin inspections supports the technical viability of disposing KOP material in Multi-Canister Overpacks (MCOs) for interim storage at the Canister Storage Building (CSB).
- A DOE-HQ team completed the STP Phase 1 Onsite Technology Readiness Assessment. Four critical technology elements (CTEs) were identified by the team. All four of these CTEs received a technology readiness level (TRL) score of 4, which is higher than the TRL 3 score required for approval of Critical Decision 1.
- A draft of the T-Plant major modification determination was completed and is in internal project review. The initial determination is that the receipt and storage of STSCs would not be a major modification.
- Conceptual design activities are in progress for the retrieval and removal of sludge from the K West Basin in STSCs. This includes planning for limited geotechnical investigation at the proposed site for the K West Basin annex modifications.

Significant Accomplishments and Status - continued

Sludge Treatment Project (STP) – continued

- The selection of Phase 2 treatment technology is in progress. "Round one" is in progress where a request for interest has been sent to prospective vendors and responses received. Between 3-5 technical approaches will be selected for "Round two", i.e., proof of principle testing.
- The technical evaluation of proposals from potential Phase 2 Alternatives Analysis subcontractors was completed. Contract award and mobilization is planned to commence in December.

Waste Site Remediation

- Continued remedial action on soil beneath the 105KE Fuel Storage Basin.
- Continued mobilization activities.
- Initiated remedial action for other 100K Area waste sites.

Work Planned in the Next 6 Months

D4

- Complete the asbestos removal from the 1706KE Facility substructure.

- Complete the demolition of the:
  - 1706KE substructure
  - 182K superstructure
  - 183.1KW to 183.7KW water treatment complex

Work Planned in the Next 6 Months - continued

Sludge Treatment Project (STP)

- Complete the data validation and preparation and issue characterization reports from the sampling and testing of containerized sludge from Containers 210, 220, 240, 250, and 260.
- Transfer sludge from Settler Tanks to Container 230.
- Sample sludge from Container 230, i.e., settler tank sludge, and transport to PNNL for analysis.
- Perform settling tests at PNNL using actual sludge samples.
- Issue final Phase 4 In-Basin Inspection Report.
- Continue with conceptual design activities and develop alternative technologies to support the Remedial Design/Remedial Action Work Plan (RD/RAWP) for submittal with M-016-140.
- Continue with the testing of systems and components at MASF to demonstrate technology readiness.
- Award contract and mobilization of support contractor for Phase 2 alternatives analysis.
- Selection of vendors and treatment technologies for proof of principle testing.
- Initiate proof of principle testing using sludge surrogate material.

Work Planned in the Next 6 Months - continued

Waste Site Remediation

- Continue remediation of waste site UPR-100-K-1, i.e. soil beneath where the 105-K East Basin was.

100K Project Risk Status

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts.

Sub-project	Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence and Risk Mitigation	Emerging Risks and Risk Mitigation
K West Basin	Future fuel and sludge handling will have potential to deposit additional sludge on K West Basin floor. Mitigation: Design sludge handling system with provisions to minimize depositing additional sludge on basin floor.	
Facility D4	Drawing unavailability / errors or undocumented facility configuration modifications cause work stoppage during facility isolation. Mitigation: Where necessary, hand-over-hand tracing is being performed. Utility isolation project will deactivate electrical and water over wide area, minimizing risk to incomplete isolation.	
Sludge Treatment	Results from the testing program yield different outcome than expected forcing redesign and/or different technology selection. Mitigation: Conduct testing necessary to support Critical Decision-1 in a timely manner.	
Waste Site Remediation		Radiological conditions at waste site UPR-100-K-1 have been realized requiring additional controls and increased volumes of waste to manage resulting in more time and resources than expected.

PBS RL-0012 – Project Performance

WBS & Title	Contract to Date ($ times 1000)					BAC
	BCWS	BCWP	ACWP	SV	CV	
012.01 - Program Management	8,606	8,606	7,651	0	955	25,488
012.02 - Basin Operations & Maintenance	10,454	10,454	12,806	0	-2,352	54,955
012.03 - Facility Operations	5,006	5,006	5,562	0	-556	35,442
012.09 - Sludge & Fuel Disposition Management	2,161	2,161	2,077	0	84	5,244
012.11 - 100K Facilities Deactivation	524	524	535	0	-11	524
012.13 - KE Basin Demolition	9,220	9,220	10,602	0	-1,383	9,220
012.14 – KW Basin Decontamination & Deactivation	0	0	0	0	0	16,017
012.15 0 KW Basin Demolition	0	0	0	0	0	24,962
012.16 - Sludge Treatment Project	34,304	35,410	32,831	1,106	2,579	243,522
012.90 - Assessments - PBS RL-12	3,381	3,381	3,576	0	-195	14,250
012.98 - Transition	21,768	21,768	21,768	0	0	21,768
012.99 - PBS RL-12 G&A and Direct Distributables	12,529	12,529	11,753	0	776	81,227
TOTAL RL-0012 - SNF Stabilization and Disposal	107,952	109,058	109,161	1,106	-103	532,619

PBS RL-0012 – Project Performance - continued

- Schedule Performance (+$1.1M / +1.0 %)
  - The STP positive variance is due to: 1) early completion of the KOP 4 Phase In-Basin inspections, including the washing of the three KOP streams ; 2) early start and advancement of the KOP Conceptual Design; 3) early start on the testing of the KOP retrieval and separations systems at MASF, and 4) efficiencies gained in the field through earlier testing at MASF.
- Cost Performance (-$0.1M / -0.1%)
  - The 100K negative variance (-$2.7M) has two main components: 1) the impact to demolition and waste shipments from the K East Basin excavation has a variance of (-$1.4M). The effort was completed in FY 2009. 2) K West Basin Operations (-$2.4M) impacts remaining from implementation of operational controls after a PISA was declared preventing the operation of the IWTS in the K West Basin in prior months and cost to maintain aging facilities in the 100K Area.
  - The STP positive variance (+$2.6M) is due to: 1) efficiencies in testing support and materials for the Engineered Container/Settler Tube (EC/ST) Retrieval, Transport ,and Storage systems and MASF facility costs have been less than planned to support a TRL-3 assessment ; 2) early completion of the KOP 4 Phased In-Basin inspections required less 100K operations support; 3) early completion on both the KOP Alternatives Analysis and debris disposition documents; and 4) success of inspection system allowed for fewer design engineering resources.

PBS RL-0041 – Project Performance

WBS & Title	Contract to Date ($ times 1000)					BAC
	BCWS	BCWP	ACWP	SV	CV	
041.02.01.01 - 100K Area Planning & Integration	300	300	251	0	48	1,078
041.02.02.01 - 100K Group 1 Structures Remediation	11,514	10,787	5,881	-727	4,906	29,291
041.02.02.02 - 100K Group 1 Remediation	5,050	3,279	3,845	-1,771	-566	28,393
041.02.03.01 - 100K Group 2 Structures Remediation	743	754	436	11	318	16,479
041.02.03.02 - 100K Group 2 Remediation	0	0	0	0	0	17,145
041.02.04.01 – 100KGroup 3 Structures Remediation	0	0	0	0	0	33,785
041.02.04.02 – 100K Group 3 Remediation	0	0	0	0	0	8,384
041.02.06.01 - KW Deactivation	3,692	3,965	1,513	273	2,452	22,181
041.02.07.01 - 100K Area Utilities Reroute	3,606	1,015	823	-2,591	191	14,724
041.02.08.01 - 105KE Reactor Disposition	7,050	4,914	4,933	-2,136	-19	63,909
041.02.08.02 – 105KW Reactor Disposition	0	0	0	0	0	55,793
041.02.10.01 - RL41 Transition Subc Assignments	0	0	29	0	-29	0
041.02.11.01 - 100K Project Management	5,144	4,690	4,724	-454	-34	52,849
041.02.12.01 – 100K Bioremediation	0	0	0	0	0	5,620
041.90 - PBS RL-0041 Assessments, MSC Services to PRC	734	734	650	0	84	29.808
041.98 - WBS RL-041 Ramp up and Transition	7,946	7,946	4,877	0	3,069	10,259
041.99 - PBS RL-041 PRC G&A and Direct Distributables	8,814	8,814	4,507	0	4,307	74,434
TOTAL RL-0041 - Nuc Fac D&D - RC Closure Project	54,592	47,197	32,469	-7,395	14,728	464,133

PBS RL-0041– Project Performance - continued

- Schedule Performance (-$7.4M / -13.5%)
  - The negative schedule variance is primarily due to slow starts in new projects which is expected to recovered as these projects gain momentum. The negative variances is partially offset by a favorable variance in K West Basin Debris Removal project and the demolition of the K West Sedimentation Basin.
- Cost Performance (+$14.7M / 31.2%)
  - The project continues an overall trend of above average efficiency in work performance achieved, with the main contributors being facility characterization in preparation for D4; and the K West deactivation – debris removal campaign.