River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
September 17, 2009

Approval: _____ Date: 10/15/09
J. Hedges (H0-57)
Ecology IAMIT Representative

Approval: _____ Date: 10/15/09
M.S. McCormick (A5-11)
DOE IAMIT Representative

Approval: _____ Date: 10/15/09
R.A. Lobos (B1-46)
EPA IAMIT Representative, Chairperson

Minutes Prepared by: _____ Date: 10/15/09
T.W. Noland (E6-28)
Mission Support Alliance, LLC

Ayres, J.M.*	Ecology
Balone, S.N.*	RL
Bignell, D.T.	WCH
Blackburn J.E.	WCH
Bond, R.*	Ecology
Bohnee, G.	NPT
Buelow, L.C.*	EPA
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
Fort, L.A.*	Ecology
Franco, J.R.	RL
French, M.S.	RL
Gadbois, L.E.	EPA
Glossbrenner, E.T.*	RL
Guercia, R.F.	RL
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
Morrison, R.D.	YAH
Neath, J.P.*	RL
Niles, K.	OOE
Noland, T.W.*	FFS
Piippo, R.E.*	CHPRC
Post, T.C.	RL
Potter, R.D.*	MSA
Price, J.B.*	Ecology
Rasmussen, J.E.*	YAH
Riffe, D.J.*	CHPRC
Russell, R.W.	ORP
Sands, J.P.	RL
Skinnarland, E.R.*	Ecology
Smith, D.C.	RL
Spencer, C.G.	WCH
Teynor, T.K.	RL
Watson, D.J.	CHPRC
Weil, S.R.	RL
Whalen, C.*	Ecology
Wilkinson, R.E.	CHPRC
Wintczak, T.M.	WCH
Administrative Record	

*Attendees

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River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
September 17, 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 June through August 2009 which presented the milestone status, significant accomplishments, significant actions planned, performance summary and issues.

Quarterly Summary

EPA inquired about the four milestones that are shown at risk. WCH stated that the four milestones are out-year milestones associated with the 100-N Area and the 300 Area.

Significant Accomplishments - For Last 3 Months

The four waste site closure documents that were approved consisted of two waste sites in 100-D and two waste sites in 100-B.

Significant Actions Planned - For Next 3 Months

Ecology and EPA inquired about receipt of the latest redline strikeout version of the 100 Area Integrated Work Plan. DOE-RL will determine when it is available. A mini Sampling and Analysis Plan (SAP) is being developed for 100-D/H so the groundwater wells can be initiated. Ecology expressed concern regarding approval of the 100 Area work plan prior to the SAP being initiated for groundwater sampling in 100-D/H. Ecology provided notice that there are potentially four technical issues in the work plan that may be elevated to the IAMIT level. Those issues will be noted during key issues/documents discussion at the IAMIT immediately following this meeting.

Other

Ecology inquired about the found-fuel containers for ERDF. WCH explained that they are engineered containers procured by ERDF, and the containers are used to move spent fuel around the site.

Performance Summary

The project is ahead of schedule and under cost for the quarter.

RCC Issues

DOE-RL stated that a letter was sent to Ecology requesting a decision on the issues associated with the 128-H-2 and 128-H-3 sites. Ecology stated that it provided comments on the RSVPs for the two waste sites, but a comment response has not been received. Subsequently the waste site reclassification form was sent to Ecology for signature; however, Ecology is waiting on a comment response before approving the reclassification form. Ecology stated that a path forward is anticipated to be identified in the near future.

Ecology inquired about the status of resuming the high work since the worker fall incident. WCH stated that a corrective action plan, which includes a fall protective plan and fall protective actions, has been submitted to DOE-RL, and WCH is awaiting DOE-RL's approval of the corrective action plan. A majority of the actions have been completed, and some of the work has resumed.

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-16-155, DOE will submit revised RD/RA work plans for 100 Area interim remedial actions in accordance with the ROD resulting from Milestone M-16-150

DOE-RL and Ecology expressed concern about Milestone M-16-155 because the Focused Feasibility Study/Proposed Plan (FFS/PP) that was submitted to EPA and Ecology per M-16-150 has not yet been approved. Ecology noted that without approval of the FFS/PP, the Tri-Parties cannot go forward with the subsequent ROD amendment that would be necessary in order for DOE-RL to complete an RD/RA work plan as required by M-16-155. DOE-RL took an action to schedule a meeting with Ecology and EPA to discuss the status of the FFS/PP.

Significant Accomplishments and Status

D4 - CHPRC stated that the drain isolations in 1706KE Facility have been completed. EPA inquired about the drains to the outfall. CHPRC responded that the collection source, which would go to the outfall, was isolated.

Work Planned in the Next Six Months

Prepare 183KW Tunnels for Demolition - EPA requested the sampling results from the 183KW tunnels before demolition is initiated.

Groundwater – A clarification was made to the second bullet on page 12 of the presentation. The bullet should state, ...in-situ reduction of chromium....

100K Project Risk Status

Facility D4 - CHPRC provided an explanation of the time-consuming process regarding electrical and drain isolations due to incomplete drawings. A methodical hand-over-hand tracing down lines is being performed to ensure all isolations are completed before any demolition activities begin.

K West Basin - Starting on October 5, CHPRC will be conducting a post-job review of K East Basin to take the lessons learned from the deactivation, isolation, dewatering, etc., in preparation for incorporating those lessons learned over to the K West Basin end state before activities begin in K West Basin. CHPRC stated that K West Basin will be much cleaner than K East Basin, noting that the walls have been painted and there shouldn't be as much intrusion into the concrete. Those aspects will aid in protecting workers from exposure, and in the demolition and dewatering process.

Tri-Party Agreement

September 17, 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: Dave Einan

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
September 17, 2009

Name	Organization	Mail Stop	Phone
Terry Noland	MSA	E6-28	376 6574
Kathy Knox	Knox Court Reporting		946-5535
Jack Donnelly	WCH		372-2043
[illegible]	[illegible]		[illegible]
Ron Skinnarland	Ecology		372-7924
Jeff Ayres	Ecology		372-7881
Cheryl Whaler	Ecology		372-7972
LES FORT	ECY		372-7984
John Price	Ecology		372-7921
Ross Potter	MSA		376-5541
Mandy Jones	Ecology		372-7916
SHELLEY CIMON	ODOE	(541)	963-0853
JANE HEDGES	Ecology		372-7905
Darrell Rifle	CHPRC - rock		376-0149
Glossbrenner, Ellwood	DOE		376-5828
Ellen Dagan	DOE KBC		376-3811
Wayne Johnson	WCH		372-9664
Laura Buelow	EPA		376-5466
Rod Lobos	EPA		376-3749
John Neath	DOE		[illegible]
ROB RIGGS	[illegible]		[illegible]

RIVER CORRIDOR CLOSURE PROJECT

TPA Quarterly Review

For Period: June - August 2009

River Corridor Milestones:

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

Tri-Party Agreement

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

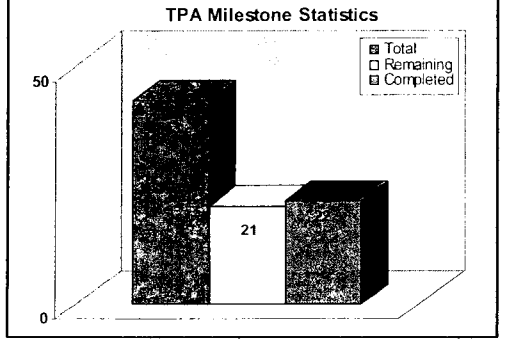
September 17, 2009

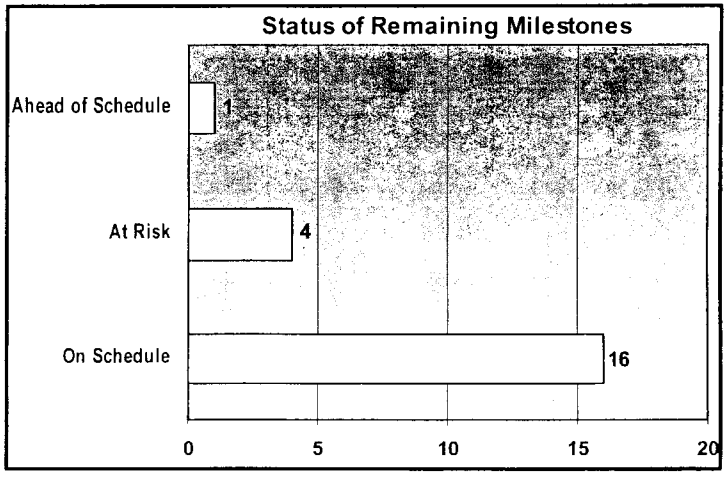
Protecting the Columbia River

E0803018

TPA Milestone Statistics
(Includes Targets and Commitment Milestones)

Total	Remaining	Completed	Completed On	Completed Ahead
43	21	22	4	18





Quarterly Summary (June – August 2009)

- Completed two TPA commitments: (these commitments were established within a tentative agreement on 12/31/01)
  - -- C-16-06C – Submit Schedule and Establish Commitments to Complete RI/FS/PPs in Support of Final RODs for 100 Area (due TBD) – 8/11/09
  - -- C-16-06D – Submit Schedule and Establish Commitments to Complete RI/FS/PP in Support of Final ROD for 300 Area (due TBD) – 8/11/09

- Approved TPA change requests:
  - -- M-16-08-09 – Established M-16-145 (due 12/31/12) – Complete Interim RA for 100-K Area Facilities and Waste Sites not Included as Phase 1, 2, or 3 Work.
  - -- M-16-07-04 - Modified 300 Area milestones M-16-00A, M-16-00B, M-16-69, M-16-74 to delay remediation of waste sites impacted by long-term mission of PNNL.
  - -- M-89-09-01 – Extended M-89-00 completion date from 9/30/10 to 9/30/12.
  - -- M-94-09-01 - Modified 300 Area milestones M-94-00, M-94-03, M-94-08, and M-94-09 to support long-term mission of PNNL.
  - -- C-08-06 – Changed designation of Appendix C groundwater operable units and river corridor source operable units as CERCLA past practice.

TPA Milestone Status Report

Status as of: August 31, 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)	On schedule	Completion of 118-H-5 is planned to meet this milestone; current forecast 12/31/09
2	M-16-64	09/30/2010	Complete Interim Remedial Actions 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)	To be modified	A draft TPA change package is under development proposing revegetation be completed later when more of the 300 Area work is complete.
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	Ahead	Current forecast 4/30/10.
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)	Ahead	Completion of 118-H-5, 118-H-3, and 118-H-2 are planned to meet this milestone; current forecast 3/31/10.
5	M-16-51	12/31/2011	Complete Interim Remedial Actions for 100-H Area	Ahead	Current forecast 5/31/10.
6	M-16-47	12/31/2011	Complete Interim Remedial Actions for 100-D Area	To be modified	A draft TPA change package is under development proposing pipeline (100-D-31:12) adjacent to 183-D to remain until facility demolition is complete
7	C-16-06C	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area	Complete	This commitment was completed on 8/11/09 upon TPA change package M-16-08-07 approval which added groundwater and soil remediation milestones to accelerate cleanup of contaminated groundwater and soil in the River Corridor and Central Plateau
8	C-16-06D	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area	Complete	This commitment was completed on 8/11/09 upon TPA change package M-16-08-07 approval which added groundwater and soil remediation milestones to accelerate cleanup of contaminated groundwater and soil in the River Corridor and Central Plateau.

TPA Milestone Status Report

Status as of: August 31, 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	TPA change package M-89-09-01 was approved 8/11/09 and extended completion date from 9/30/10 to 9/30/12.
	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	Ahead	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 closure documentation in progress. TPA change package M-94-09-01 was approved 8/11/09 and removed 324, 324B, and 327 buildings from milestone.
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). TPA change package M-94-09-01 was approved 8/11/09 and modified title and removed some facilities.

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Completed loadout at 100-B/C; continued sampling and site closure activities.
- Completed bulk excavation and loadout at 100-H-37 (mud dauber area).
- Awarded 118-K-1 remediation contract.
- Awarded 100-IU-2/6 archaeology support contract.
- Provided review copies of revised 300 Area RDR/RAWP that included 618-10 under ARRA.
- Completed mobilization/evolution startup activities and began indicator contaminant screening Phase IIb fieldwork for groundwater upwelling survey using the Trident Probe technology (in support of remedial investigation of Hanford Site releases to Columbia River). A total of 12 of 120 Phase IIb samples were collected as of 8/27/09.
- Performed two all-day workshops with Ecology and EPA to resolve comments on 100 Area Integrated Work Plan.
- Completed a draft of 100-FR-2 OU Remedial Action Report, Draft A, and RL is reviewing.
- Approved 4 waste site closure documents during this reporting period.

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

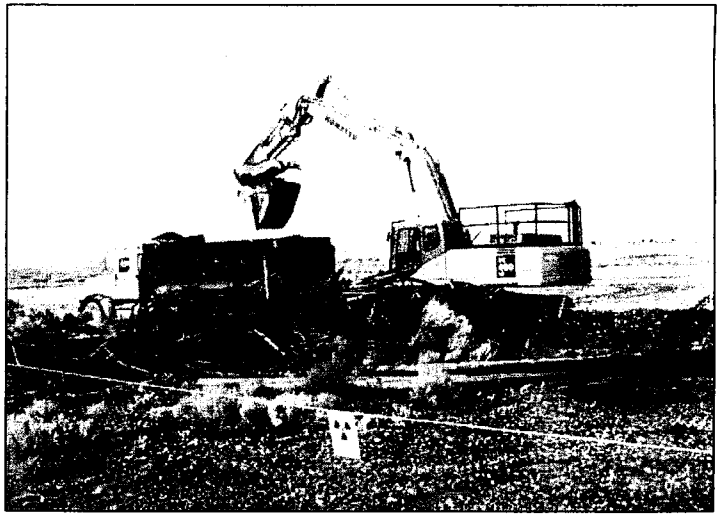
- Continued characterization and demolition planning.

M-93 – Reactors Final Disposition:

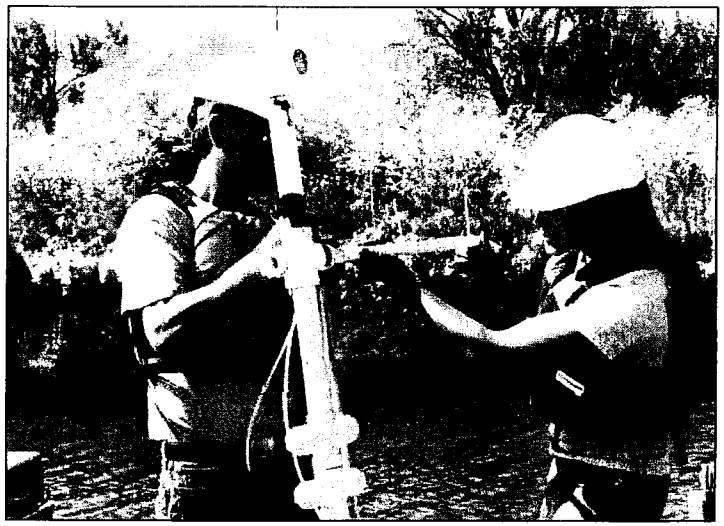
- Began 105N hazardous material removal.
- Continued with 109N above-and below-grade loadout.

M-94 – 300 Area Surplus Facilities Disposition:

- Continued D&D of 308 Fuels Development Lab, 309 Plutonium Recycle Test Reactor, 336 High Bay Testing Facility, 338 Maintenance Building, 315 complex, 3718M Sodium Storage Facility, and 3621D building.
- Continued below-grade demolition and loadout of 384 Power House.
- Completed core drilling and nearing completion of 327 hot cell wire sawing activities.
- Awarded subcontract for 324 facility remotely operated decontamination of B-Cell.
- Completed demolition/loadout of two buildings during reporting period.



Loadout of Mud Dauber Contaminated Telephone Poles at 100-H



Preparing for Columbia River Surface Water Sampling

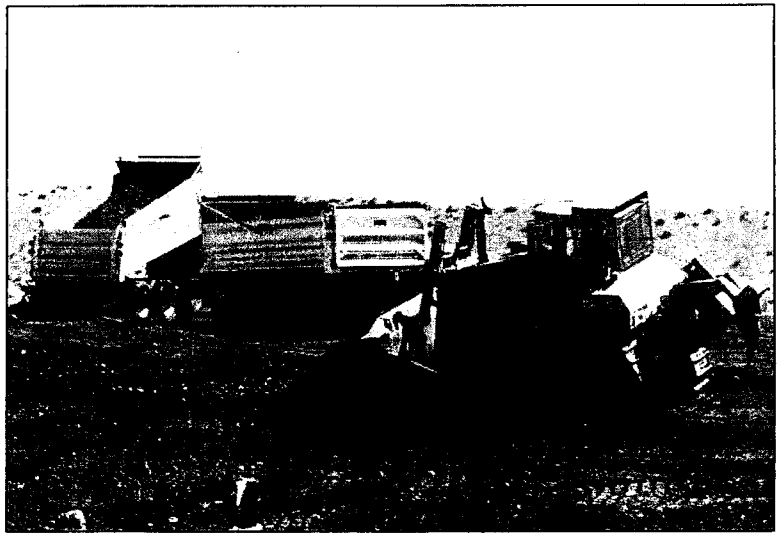
Significant Accomplishments – For Last 3 Months (cont'd):

Other:

- WCH supported CHPRC in completing 100-K soil and groundwater RI/FS work plan and 100-D/H soil and groundwater RI/FS work plan submittals (M-15 groundwater milestones).
- WCH supported K-East Basin removal in transporting and disposing of waste.
- Mobilized ERDF truck and pup operations in June.
- For period of June through August 2009, disposed nearly 291,000 tons of waste in ERDF.

American Recovery and Reinvestment Act (ARRA):

- Initiated surface geophysical delineation of vertical pipe units at 618-10.
- Started excavation of ERDF Cell 9; excavated ~ 90,000 bank cubic yards (BCYs) of estimated 1.5M BCYs as of 8/20/09.



Disposing Soil from 100-D in Cell 6 70-ft Level
Using Truck and Pup Operations

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Complete verification sample collection for waste sites in 100-B/C.
- Begin 118-K-1 remediation.
- Begin 100-IU-2/6 remediation.
- 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, sturgeon, sucker, and carp collection activities.
- Initiate field work (groundwater integration), pending approval of the 100 Area Integrated Work Plan, Addenda, and SAPs.

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

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

M-93 – Reactors Final Disposition:

- Initiate 105N above-grade demolition.

M-94 – 300 Area Surplus Facilities Disposition:

- Continue D&D of 308, 308A, and 309.
- Complete D&D of 315 complex, 324 High Bay, 336, 338, and 3621D.
- Initiate removal of hot cells from 327 for shipment to ERDF.
- Accept transfer of 310 TEDF and 340 facilities for disposition.

Other:

- Receive found-fuel containers for ERDF waste operations.

ARRA:

- Initiate 618-10 radiological characterization.
- Complete design for ERDF Cells 9/10.

PERFORMANCE SUMMARY

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

($K)

Note: Mod 30 baseline implemented in June

	IPB		CUMULATIVE			*Previous Quarter Comparison*			
						SCHEDULE VAR ($)		COST VAR ($)	
	BCWS	EAC	BCWS	BCWP	ACWP	*Apr*	Aug	*Apr*	Aug
D4	642,682	524,169	233,146	298,346	187,507	*51,543*	65,200	*105,736*	110,839
Reactor ISS	118,178	113,363	52,582	39,900	36,158	*-13,130*	-12,682	*4,702*	3,742
Field Remediation	515,091	570,002	202,042	229,037	207,570	*10,628*	26,995	*12,321*	21,467
Waste Operations	317,587	279,816	114,886	136,202	144,498	*20,247*	21,316	*-14,330*	-8,296
ESFC	48,112	49,587	29,562	29,949	27,365	*8,467*	387	*11,814*	2,584
Mission/General Support	328,902	346,551	157,185	157,185	162,730	*0*	0	*-5,218*	-5,545
Transition	3,979	3,747	3,979	3,979	3,747	*0*	0	*232*	232
Contingency	219,532	219,532							
TARGET COST TOTAL	**2,194,063**	**2,106,767**	**793,384**	**894,599**	**769,576**	***77,756***	**101,215**	***115,256***	**125,022**

Schedule Variance (PMB): $101,215K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Delayed approval/award of 105N/109N demolition/safe storage enclosure subcontract.
- Stop-work at KE/KW Reactor ISS (RL direction).
- 100-DR burial grounds accelerations and early completion of 100-B-14 and 100-C-9; partially offset by delays at 300 Area waste sites and 618-10/11 Burial Grounds.
- Design of ERDF Cells 7-10; procurement and construction of Cells 7/8.

Cost Variance (PMB): $125,022K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- 100-D and 100-F Area burial ground 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.
- ERDF cost overruns in transport, treatment, and disposal of waste due to operational issues; overrun in purchase and leasing of additional equipment; and transportation and disposal subcontractor mobilization.

RCC Issues

- Complete comment resolution for 100 Area Remedial Design Report/Remedial Action Work Plan.
- Determine path forward for 128-H-2 and 128-H-3. High potential for dispute regarding closeout of these waste sites.

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

September 17, 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-16-52	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTE SITES FOR THE 100K AREA INCLUDING CLOSURE OF THE 1706KE WASTE TREATMENT SYSTEM IN ACCORDANCE WITH SECTION 5.5 OF THE AGREEMENT ACTION PLAN.	07/31/2009	Complete July 9, 2009
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	On Schedule
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

TPA Milestone Status

Remaining Milestones Due Fiscal Year 2009-2010

Number	Milestone Title	Due Date	Status / Comments
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-16-150	DOE WILL SUBMIT A PROPOSED PLAN TO EPA AND ECOLOGY TO AMEND EXISTING 100 AREA INTERIM ACTIONS RODS FOR REMEDIATION OF HEXAVALENT CHROMIUM IN THE VADOSE ZONE AND GROUNDWATER	06/30/2009	Complete
M-16-155	DOE WILL SUBMIT REVISED RD/RA WORK PLANS FOR 100 AREA INTERIM REMEDIAL ACTIONS IN ACCORDANCE WITH THE ROD RESULTING FROM MILESTONE M-16-150.	06/30/2010	On Schedule
M-16-160	COMPLETE REMOVAL OF THE K EAST BASIN STRUCTURE.	09/30/2009	Complete September 9, 2009
M-93-22	COMPLETE 105KE REACTOR INTERIM SAFE STORAGE IN ACCORDANCE WITH THE REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN.	07/31/2014	On Schedule

Significant Accomplishments and Status

Overall 100K Remediation

- Final approval of milestone modifications regarding accelerated groundwater, soils, and 100K cleanup was completed.

D4

- Completed the demolition and removal of the K East Basin substructure.
- Shipped over 400 ERDF containers and 6 high radiological dose IP2 containers to ERDF.
- Initiated asbestos removal from the 1706KE Facility.
- Completed removal and disposal of the RCRA TSD components to the 1706KE Waste Treatment System.
- Completed electrical and water isolations to the 1706KE Facility. Drain isolations are in progress.
- Initiated planning to define the K West Basin end state prior to facility demolition.

Significant Accomplishments and Status - continued

Sludge Treatment Project (STP)

- DOE has approved the CHPRC recommendation to proceed with a two phased approach for the disposition of K Basin Sludge:
  - Phase I – retrieval/removal/transfer to interim storage.
  - Phase II – treatment and packaging for disposal.
- Conceptual design for Phase 1 continued on two approaches:
  - Direct loading of sludge into above water Sludge Transfer and Storage Canisters within a cask for shipment to the 200 Area.
  - Loading of sludge into smaller underwater canisters that would be removed from the basin into a cask similar to how SNF was transferred from the K East Basin to the K West Basin for shipment to the 200 Area.
- Completed preparations for a DOE Technology Readiness Assessment on critical technology elements associated with processes and equipment associated with Phase I.
- Completed preparation of general arrangement drawings for defining the required modifications to T Plant for interim storage of sludge.
- Completed testing and training on the operation of the settler tube boroscope inspection equipment at MASF and shipped / installed the equipment in the K West Basin.

Significant Accomplishments and Status - continued

Sludge Treatment Project (STP) - continued

- Completed testing of the Knockout Pot sludge Phase 4 inspection equipment at MASF and installed the equipment in the K West Basin.
- Initiated Phase 4 testing of the Knockout Pot sludge in K West Basin.
- Continued conceptual design for Knockout Pot sludge retrieval and removal.
- Continued testing of systems and components at MASF prior to being deployed to K West Basin for operations:
  - Transfer pump/system for transferring settler tube sludge to Container 230.
  - Filtration tests associated with the system for direct loading sludge into Sludge Transfer and Storage Containers.
- Completed engineering drawings and specifications for constructing a pool at MASF to simulate K West Basin for future testing.
- Alternative analysis decision planning for Phase II has started.

Significant Accomplishments and Status - continued

Waste Site Remediation

- Design for remediation of the UPR-100K-1 waste site (below the K East Basin) is complete and equipment is being staged at the site.
- Contract was awarded to a CHPRC subcontractor for remediation of the Phase 1 waste sites and mobilization has commenced.

Groundwater

- A proposed plan was submitted to Ecology and EPA to amend existing 100 Area interim action RODs for remediation of hexavalent chromium in the vadose zone and groundwater, completing interim milestone M-016-150 ahead of schedule. Informally provided regulator comments, and the 100-HR-3 and 100-KR-4 groundwater operable unit remedial process optimization recommendations are being factored into the development of a path forward to provide for use of in-situ reduction in the 100 Areas.
- Other status on groundwater remediation will be reviewed as a part of the Soil and Groundwater Remediation Project Milestone Review for M-015-00, M-016-00, and M-24-00.

Work Planned in the Next 6 Months

D4

- Prepare closure reports for the K East Basin Deactivation and Demolition.
- Prepare K West Basin End State Definition.
- Prepare K West Basin DQO/SAP Strategy for Demolition.
- Prepare 183KW Tunnels for demolition.
- Perform demolition of 183KW head house and sedimentation basins.
- Perform demolition of the 1706KE facility superstructure and substructure.
- Prepare 166K East Oil Storage Vault for demolition.

Work Planned in the Next 6 Months - continued

Sludge Treatment Project (STP)

- General
  - Conduct laboratory analyses of sludge samples.
  - Issue interim sludge characterization analysis results.
  - Define changes in sludge disposition path forward for evaluation against current remedy.
- Phase I Container Sludge (retrieval, removal, and transfer sludge to 200 Area for interim storage)
  - Complete DOE technology maturation readiness assessment.
  - Prepare technology maturation plan that will aid in defining testing needs.
  - Initiate preliminary design of sludge retrieval and transfer system.
  - Initiate procurement of sludge transfer and storage containers.
  - Transfer sludge from the settler tubes to Container 230.
  - Vacuum K West Basin floor and pit sludge into Container 210.
  - Relocate Perma Con units inside T Plant.

Work Planned in the Next 6 Months - continued

Sludge Treatment Project (STP) – continued

- Knock-out Pot Sludge
  - Complete Phase 4 testing.
  - Initiate procurement of additional Multi-Canister Overpacks for removal of Knockout Pot sludge as spent nuclear fuel.
  - Commence with conceptual engineering for the retrieval and separations of the Knockout Pot sludge stream.

- Phase II
  - Prepare request for proposal and statement of work for identification and analyses of sludge treatment alternatives.
  - Initiate analysis of alternative sludge treatment options, e.g. , location and technology.

Work Planned in the Next 6 Months - continued

Waste Site Remediation

- Remediate waste site UPR-100-K-1 (beneath the K East Basin).
- Prepare chromium and mercury treatment plan.
- Perform confirmatory sampling at waste sites:
  - 100-K-3
  - 100-K-6
  - 100-K-37
  - 100-K-38
  - 100-K-42
  - 100-K-46
  - 100-K-56
  - 100-K-62
  - 100-K-63
  - 100-K-64

Work Planned in the Next 6 Months - continued

Groundwater

- Revise path forward to amend existing 100 Area interim action RODs for remediation of hexavalent chromium in the vadose zone and groundwater, based on informally provided regulator comments, and the 100-HR-3 and 100-KR-4 groundwater operable unit remedial process optimization recommendations.
- Prepare and submit revised CERCLA evaluative document(s) to provide for use of in-situ reduction in the 100 Areas and initiate ROD amendments as appropriate.

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	1. Future fuel and sludge handling will have potential to deposit additional sludge on K West Basin floor.	1. Design sludge handling system with provisions to minimize depositing additional sludge on basin floor.
Facility D4	1. Drawing unavailability / errors or undocumented facility configuration modifications cause work stoppage during facility isolation.	1. 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	1. Results from the testing program yield different outcome than expected forcing redesign and/or different technology selection.	1. Conduct testing necessary to support Critical Decision-1 in a timely manner.

PBS RL-0012 – Project Performance

WBS & Title	Fiscal Year to Date					BAC
	BCWS	BCWP	ACWP	SV	CV	
012.01 - Program Management	7,450	7,450	6,584	0	866	7,981
012.02 - Basin Operations & Maintenance	8,525	8,525	9,998	0	-1,473	9,151
012.03 - Facility Operations	3,950	3,739	4,216	-211	-477	4,462
012.09 - Sludge & Fuel Disposition Management	1,665	1,665	1,446	0	219	1,867
012.11 - 100K Facilities Deactivation	445	476	547	31	-71	524
012.13 - KE Basin Demolition	7,262	6,725	8,982	-537	-2,257	7,262
012.16 - Sludge Treatment Project	25,146	27,217	25,010	2,071	2,207	28,749
012.90 - Assessments - PBS RL-12	2,653	2,653	2,901	0	-248	2,972
012.98 - Transition	21,768	21,768	21,768	0	0	21,768
012.99 - PBS RL-12 G&A and Direct Distributables	9,722	9,722	9,650	0	72	10,877
TOTAL RL-0012 - SNF Stabilization and Disposal	88,586	89,940	91,102	1,354	-1,162	95,613

PBS RL-0012 – Project Performance - continued

- Schedule Performance (+$1.4M / 1.5 %)
  - The 100K Area Project SV (-$0.7M) is primarily due to realized risk impacts on the K East substructure Phase IV demolition. The project is recovering from the ERDF container delays and plans to complete the remediation in support of TPA M-16-160 (field work complete 09/09/2009).
  - The STP positive variance (+$2.1M) is due to: 1) Overall STP testing activities more efficient than planned (little re-testing required); 2) Efficiency of the EC sampling and analysis workscope; and 3) Knockout Pot transfer workscope completion and early starts on Alternative Analysis and debris disposition activities.
- Cost Performance (-$1.2M / -1.3%)
  - The 100K CV (-$3.3M) is due 1) the impact to waste shipments from the K East Basin excavation. 2) The 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.
  - The STP positive variance (+$2.2M) is due to: 1) Overall testing activities costing less than planned (schedule improvements and shared material costs); 2) Efficiency at 100K and PNNL supporting the engineered container sampling campaigns and current laboratory analysis; and 3) Overall efficiency in the Knockout Pot sludge project including a) phased In-Basin inspection activities completing early saving operations costs, b) conceptual design advancing based on success of separations equipment in the inspection work, and c) testing not as comprehensive based on separations success.

PBS RL-0041 – Project Performance

WBS & Title	Fiscal Year to Date					BAC
	BCWS	BCWP	ACWP	SV	CV	
041.02.01.01 - 100K Area Planning & Integration	280	285	599	5	-314	291
041.02.02.01 - 100K Group 1 Structures Remediation	2,302	2,070	3,429	-232	-1,359	4,901
041.02.02.02 - 100K Group 1 Remediation	1,762	1,395	1,455	-367	-60	2,719
041.02.03.01 - 100K Group 2 Structures Remediation	743	743	325	0	418	743
041.02.03.02 - 100K Group 2 Remediation	0	0	0	0	0	0
041.02.06.01 - KW Deactivation	1,510	1,569	297	59	1,272	2,597
041.02.07.01 - 100K Area Utilities Reroute	1,169	1,778	502	609	1,276	2,507
041.02.08.01 - 105KE Reactor Disposition	2,969	2,845	2,484	-124	361	4,849
041.02.10.01 - RL41 Transition Subc Assignments	0	0	29	0	-29	0
041.02.11.01 - 100K Project Management	1,946	2,036	1,707	90	329	4,916
041.90 - PBS RL-0041 Assessments, MSC Services to PRC	228	228	119	0	109	294
041.98 - WBS RL-041 Ramp up and Transition	5,568	5,568	4,398	0	1,170	8,695
041.99 - PBS RL-041 PRC G&A and Direct Distributables	4,888	4,888	2,221	0	2,667	6,364
TOTAL RL-0041 - Nuc Fac D&D - RC Closure Project	23,365	23,405	17,565	40	5,840	38,876

PBS RL-0041– Project Performance - continued

- Schedule Performance (+$0.1M / +0.2%)
  - Although the variance is within established thresholds, the 1706KE associated buildings have experienced delays in achieving isolation and deactivation (due to two extra months of Cold & Dark activities, having to do complete electrical system tracing, and excessive heat and wind conditions). This in turn is delaying demolition activities for the K West Sedimentation Basin and 118KE Structure. These are offset by the favorable progress on utility relocation/isolation and K East Core removal planning.
- Cost Performance (+$5.8M / 25.0%)
  - Favorable variance is due to efficiencies/delay in cost receipts for American Recovery and Reinvestment Act (ARRA) ramp up/training, and efficiencies in Project Management/D4 activities.