0093877

River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
December 16, 2010

Approval: _____ Date: 1/20/11
J. Hedges
Ecology IAMIT Representative

Approval: _____ Date: 1/20/11
R.A. Holten
DOE IAMIT Representative

Approval: _____ Date: 1/20/11
D.A. Faulk
EPA IAMIT Representative

Minutes Prepared by: _____ Date: 1/24/11
T.W. Noland
Mission Support Alliance, LLC

Balone, S.N.	RL
Bignell, D.T.	WCH
Black, D.G.	CHPRC
Bond, R.	Ecology
Bohnee, G.	NPT
Buelow, L.C.	EPA
Bryson, D.C.	RL
Call, P.K.	RL
Cameron, C.E.	EPA
Cimon, S.*	ODE
Dagan, E.B.	RL
Dittmer, L.M.*	CHPRC
Einan, D.R.	EPA
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
Kaldor, R.A.*	MSA
Knox, K.E.*	KCR
LaRue, D.N.	WCH
Lobos, R.A.	EPA
McCormick, M.S.	RL
Menard, N.M.*	Ecology
Neath, J.P.	RL
Niles, K.	OOE
Noland, T.W.*	MSA
Piippo, R.E.*	MSA
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
Vanni, J.	Yakama
Watson, D.J.*	CHPRC
Whalen, C.*	Ecology
Williams, J.D.	CHPRC
Wintczak, T.M.	WCH
Wise, B.K.	MSA
Yasek, D.M.*	WCH
Administrative Record	

*Attendees

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River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
December 16, 2010

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

DOE-RL distributed a quarterly summary for September through November 2010 which included the milestone status, significant accomplishments for the last three months, significant actions planned for the next three months, performance summary, and issues. TPA milestone M-16-64 was completed, except for revegetation. The revegetation was put on hold because several areas are being dug up, and a milestone change package will allow the revegetation to be done later.

Milestone Status

M-16-145 - EPA asked if this milestone is at risk due to work scope or funding. DOE-RL responded that funding is not an issue, and that WCH designated this milestone at risk from the standpoint of ensuring the milestone gets included into its contract. Some of the work has been authorized for sampling and the design for remove, treat and dispose (RTD). Confirmatory sampling is being redone at 600-S-29, and the design will be RTD. Design for 100-K-78 is in progress. Waste site 128-K-2 was an overflow for one of the trenches or cribs and was posted as a below-ground contamination area. There are no records of what was in the area, and sampling will be done to determine if there is any contamination that needs to be remediated.

Milestone M-89 - 324 Bldg Non-Permitted Mixed Waste Units Closure - This milestone is at risk due to high dose contamination underneath the facility. WCH will take about six months of planning to determine a path forward. A workshop will be conducted during the January-February 2011 time frame to discuss solutions. A TPA change request will be submitted after more information is known about how to address the soil contamination.

M-94-08 - A change request to add 340B to the milestone is expected to bring this milestone on track. EPA stated that the change request was approved yesterday.

Significant Accomplishments - For Last 3 Months

M-16 - Remedial Action/Risk Assessment - The rail surveys have been completed, and the release surveys were done to confirm the rails were not contaminated. There were a couple areas of contamination, but they were between the railroad ties, and the rails were clean.

M-94 - 300 Area Surplus Facilities Disposition - All ten of the above-grade 327 hot cells have been shipped to ERDF. There is one lower surface hot cell that will be removed in the next few months as remediation is completed below-grade. Three highly contaminated mice were trapped yesterday, and it is believed the lower hot cell area is the source of contamination.

Significant Actions Planned - For Next 3 Months

ERDF- Construction of super cells 9 and 10 has been completed, and acceptance testing is under way. Super cell 9 is expected to be opened for operation by early February 2011, and super cell 10 will open shortly afterwards. Super cell 9 was completed three months ahead of schedule, and 10 was completed about nine months ahead of schedule.

Performance Summary

The project performance continues with a positive schedule and cost variance. ARRA performance also continues with a positive schedule and cost variance.

Hanford 100-K Remediation for Applicable M-16 and M-93 Milestones

A summary of the TPA milestone status, 100K project risk status, and PBS RL-12 and PBS RL-41 project performance was provided.

M-16-140, Submit Revised RD/RA Work Plans for 100K Area RODs as Primary Document(s) per HFFACO 11.6 with New Proposed Milestones Including the Following: (Due March 31, 2011)

DOE-RL reported that EPA has been notified in the past week that two parts of this milestone are at risk. DOE-RL has had discussions with EPA in an effort to determine how the milestone can be met as intended.

M-16-53 and M-16-143 Facilities Status

DOE-RL stated that it continues to work with the cultural affairs program on waste site K-64 (Phase 1, M-016-053), which is a culturally sensitive area that contains a known Indian travel village and graveyard. Waste site K-57 is also part of the culturally sensitive area. DOE-RL noted that the color-coding on slide six of the handout is slightly different from slide five. The red indicates confirmatory sampling and no action required. All 49 of the sites failed, and RTD will be done. The contractor is required to develop a proposal to DOE-RL before doing the remediation. The yellow on slide six indicates work in progress. The blue indicates that the closure documentation has been completed, and the teal green indicates closure documents in progress. Phases 1 and 2 on slide six are on schedule, although K-57 may present a challenge.

M-093-022 Status

This milestone is associated with the interim safe storage of the 105-KE reactor. DOE-RL has been considering the option of doing immediate core dismantlement, and a decision has been made to not go forward with that option. All of the engineering and documentation necessary will be done to "put on the shelf," and when the final engineering design has been completed and approved, DOE-RL will put it into the budget process and request Headquarter's permission to go forward. In the interim, a Data Quality Objective (DQO) Sampling Analysis Plan (SAP) will be developed to do push samples of the soils in and around and beneath the discharge chute joint. There is no plan to do any physical excavation for cleanup. DOE-RL is aware that the sample results may require immediate action, which is why the plan is to complete the design this calendar year.

EPA requested issuing a joint response with DOE-RL regarding the public and tribal comments on the 105-KE reactor dismantlement Engineering Evaluation and Cost Analysis (EE/CA). DOE-RL acknowledged and concurred with EPA's request.

DOE-RL stated that there were over 250 comments received from the review of the 60 percent design associated with removal of the 105-KE reactor. DOE-RL is preparing a letter to the contractor requesting a plan for interim safe storage of the 105-KE reactor, and to finalize the design and associated permitting requirements documentation.

100K Project Risk Status

DOE-RL stated that there has been no change in project risk status since the last quarterly report. DOE-RL reported that the discharge chute has been taken out and the debris is being hauled to ERDF. The total REM planned for the job was 2.1 for safety protection of the workers, and the REM is at .58. There are two weeks remaining on the job. EPA suggested a press release to highlight the minimized dose to the work force.

Project Performance

RL-12 - Project performance from contract-to-date (from October 2008) is slightly behind schedule and over budget. DOE-RL stated that the sludge treatment project (STP) continues to present difficulties, but it is not believed they are insurmountable. DOE-RL stated that by the end of this fiscal year, the project performance is expected to be recovered. DOE-RL stated that there is a strong project management team, and no funds have been requested outside the project. The management reserve and contingency have been used to mitigate the unknown technology challenges.

RL-41 - The project performance is slightly ahead of schedule and under budget. The under budget allows the project to absorb some of the cost associated with the 49 waste site failures and the RTD sites that are more extensive, more contaminated and deeper than anticipated.

Plans for Calendar Year 2011

The 115-KE and 117-KE facilities will be completed. Work has started on the east wing of the K East reactor block. The west side has been completed. By next December, all that will remain will be the reactor shield walls on the east side. Asbestos abatement will be conducted. The river pumphouses, reactor cooling pumphouses and the clearwells will come out. EPA stated that it is planning a tour in January 2011.

Tri-Party Agreement

December 16, 2010

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-16-53	
	M-16-140	
	M-16-143	
	M-93-22	
	M-15-116	
11:00 am	Adjourn Milestone Review	

Tri-Party Agreement Major Milestone Management Review
December 16, 2010

Name	Organization	Mail Stop	Phone
Kathy Knox	Knox Reporting		946-5535
Terry Noland	MSA		376-6574
Wayne Johnson	WCH		372-9044
Reed Kaldor	MSA		372-1992
Larry Gadbois	EPA		376-9884
ROB PHIPPS	MSA		373-923[illegible]
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Cheryl Whalen	Ecology		372-7972
Dennis Faulk	EPA		
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Tom Teynor	DOE RL		376-6363
Lorna Bittner	CHPRC		376-7017
Donna Uasele	WCH		372-9229

RIVER CORRIDOR CLOSURE PROJECT

TPA Quarterly Review

For Period: September - November 2010

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

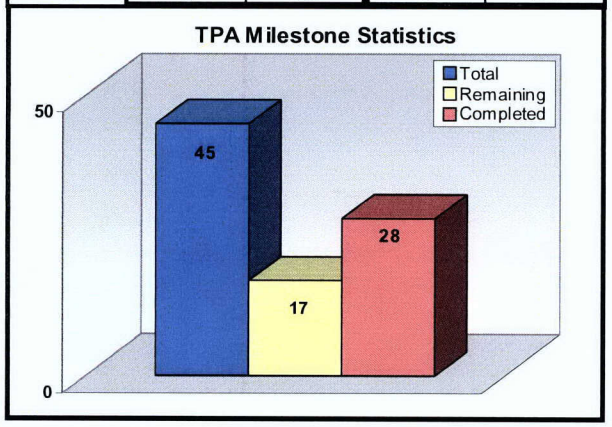
December 16, 2010

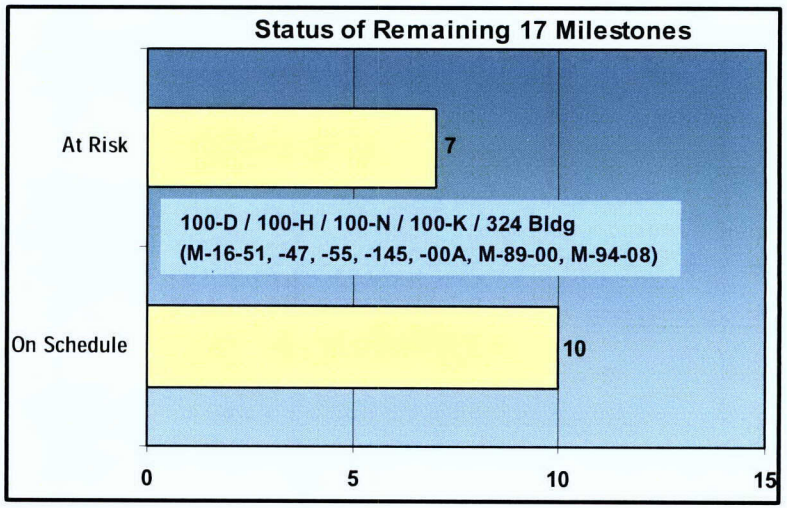
Protecting the Columbia River

E0803018

TPA Milestone Statistics
(Includes Target and Commitment Milestones)

Total	Remaining	Completed	Completed On	Completed Ahead
45	17	28	4	24





Quarterly Summary (September – November 2010)

- **Completed one TPA milestone:**

  -- M-16-64 - Complete Interim Remedial Actions, Except Revegetation, for Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, and 618-1) (due 9/30/10) - 9/8/10

- **Received one transitioned TPA milestone:**

  -- M-92-16 - Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste and Materials (due 9/30/15); transitioned to WCH in September 2010 with transfer of 340 Waste Neutralization Facility.

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2012 and "at risk")				
M-16-51	12/31/11	Complete Interim RA for 100-H Area	At risk	Delays in obtaining regulatory approval of closeout documents and its impact on backfill put milestone at risk.
M-16-47	12/31/11	Complete Interim RA for 100-D Area	At risk	Delays in obtaining regulatory approval of closeout documents and its impact on backfill put milestone at risk. Additionally, TPA CR M-16-09-06 proposes removal of several 100-D-31 segments from this milestone.
M-16-56	02/28/12	Complete Interim RA for 100-IU-2 / 100-IU-6 Waste Sites Listed in 1999 100 Area Remaining Sites ROD (32 sites) as Described in RDR/RAWP	On schedule	
M-16-74	09/30/12	Complete Interim Remediation (to include excavation, loadout, closeout sampling, backfill) for all 300 Area "Inside the Fence" Waste Sites North of Apple Street, Except that the 300-268 and 300-123 Waste Sites Remediation Need Only Be Completed Through Excavation and Loadout	On schedule	Waste sites 300-4, 300-15, 300 RRLWS, and RLWS are impacted by 300 Area building retentions and are addressed in M-16-00B. Revegetation of M-16-74 waste sites will be completed under M-16-139.
M-16-55	12/31/12	Complete Interim RA for 100-N Area	At risk	Remediation started in August 2010. Remediation of some sites under buildings and reactor footprint require further negotiation and places milestone at risk, as well as completion definition/requirements for in-situ and ex-situ bioremediation.
M-16-145	12/31/12	Complete Interim RA for 100-K Area Facilities and Waste Sites not Included as Phase 1,2, or 3 Work	At risk	Sites in this milestone are those listed in IROD prior to August 2009. Three sites (600-29, 100-K-78, 128-K-2) included in this milestone are currently not in WCH contract for remediation, and require an approved REA prior to performing design and another REA for remediation.

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2012 and "at risk") (cont'd)				
M-16-00A	12/31/12	Complete All Interim RA for 100 Area Units, with Exception of 100-K Area, by Specified Due Date as Approved in a RDR/RAWP	At risk	At risk due to M-16-47, -51, 55, -145.
M-89 Milestone - 324 Bldg Non-Permitted MW Units Closure				
M-89-00	09/30/12	Complete Closure of Non-Permitted Mixed Waste Units in 324 Bldg REC B-Cell, REC D-Cell, and High Level Vault	At risk	At risk due to soil contamination encountered under 324 B-Cell. This is a differing condition and will result in cost and schedule impacts. Preparing change request to extend schedule for 324 disposition.
M-92 Milestone - 300 Area Special Case Waste				
M-92-16	09/30/15	Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste and Materials	On schedule	Milestone transferred to WCH in September 2010 with transfer of 340 Waste Neutralization Facility.
M-93 Milestone - Reactors Final Disposition				
M-93-20	09/30/12	Complete 105N Reactor ISS	On schedule	ISS in progress.
M-94 Milestone - 300 Area Surplus Facilities Disposition				
M-94-08	12/30/11	Complete Removal and/or RA for 11 of Following Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 327, 333, 340, 3706, and 3720	At risk	At risk due to work holds on beryllium-contaminated facilities and unexpected contamination encountered under 324. Change request has been drafted to add 340B to list of priority facilities.

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Awarded 100-C-7 remediation contract.
- Began 100-D Area backfill campaign.
- Initiated 6-month bioremediation operational testing at 100-N Area.
- Completed rail radiation surveys in all areas (30 miles); continued rail removal.
- Continued development of River Corridor Baseline Risk Assessment report.
- Issued orphan sites evaluation reports for 100-F/IU-2/IU-6-Segment 2 and 300 Area.
- Received approval of 7 waste site closure documents during this reporting period.
- American Recovery and Reinvestment Act (ARRA) – Received approval of 6 waste site closure documents during this reporting period.
- ARRA – Completed field work for the Segment 1 waste sites.
- ARRA - Completed confirmatory sampling field activities at 100-IU-2/6 (9 of 13 sites), 100-K Area (6 sites), and 100-D Area (4 sites).
- ARRA – Finalized 618-10 non-intrusive characterization (NIC) report; conducted workshop with RL/EPA to evaluate NIC results.
- ARRA – Received NRC approval for Columbia Generating Station License Amendment in support of 618-11 NIC.

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

- Continued hazardous waste removal and deactivation activities.
- Obtained dose profiles under B-Cell

M-93 – Reactors Final Disposition:

- Continued installation of 109N safe storage enclosure (SSE) roof panels.
- Completed 105N above/below-grade demolition; continued SSE design.

M-94 – 300 Area Surplus Facilities Disposition:

- Completed above-grade demolition/loadout of 327; completed hot cell shipments to ERDF for disposal.
- Completed explosive demolition of 309 stack and 337/337B buildings.

100-N Area -- 105N/109N Interim Safe Storage

Explosive Demolition of 337/337B Buildings

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

ERDF:

- For period of September through November 2010, disposed more than 517,000 tons of waste in ERDF.
- ARRA – Construction of Super Cell 9 is ~ 96% complete; Super Cell 10 is ~ 93% complete.
- ARRA – Received batch plant and started installation.
- ARRA – Completed paving upgrades to Hanford Routes 1, 2, and 4; completed paving for east entrance additional lanes.
- ARRA – Started structural steel erection on container maintenance facility.
- ARRA – Poured footings for operations center and equipment maintenance facility.
- ARRA – Started expansion of Phase 5 container transfer area.

Super Cells 9/10 Construction Nearing Completion

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Begin 100-C-7 remediation.
- Initiate 118-K-1 Trench I silo remediation.
- Start abandoned utility pole removal.
- Begin closure process for 314 and related sites (300 Area).
- ARRA – Begin development of 100-F closeout sampling work instructions.
- ARRA – Initiate Draft A review of 100-D, -K, -IU-2/6 closure documents.
- Transmit Draft B of the RCBRA report ecological and human health volumes to RL/regulators for review.
- Complete Ecology comment resolution on Draft B 100-N Work Plan addendum and SAP, and issue Rev. 0 documents.

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

- Complete initial characterization under B-Cell and start mitigation planning for the new waste site, 300-296, pending receipt of an NTP/NTE.
- Continue hazardous waste and asbestos removal.

M-93 – Reactors Final Disposition:

- Begin 105N Fuel Storage Basin above-grade demolition.
- Complete 109N SSE roofing and siding installation.

M-94 – 300 Area Surplus Facilities Disposition:

- Continue 327 below-grade demolition.
- Complete 308 glovebox shipments to Perma-Fix.
- Complete below-grade demolition of 338, 3718P, 335, and 336.

ERDF:

- ARRA – Perform Super Cells 9 and 10 acceptance testing.
- ARRA – Open Super Cell 9 for operation.
- ARRA – Complete installation of leachate tanks #3/4; demolish #2.
- ARRA – Complete batch plant installation.
- ARRA – Start structural steel erection for equipment maintenance facility.

PERFORMANCE SUMMARY (includes ARRA)

Contract Inception (8/25/05) through November 2010

($K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
						SCHEDULE VAR ($)		COST VAR ($)	
	BAC	EAC	BCWS	BCWP	ACWP	*Aug*	Nov	*Aug*	Nov
D4	667,675	589,850	343,594	384,620	275,684	*47,293*	41,026	*113,180*	108,936
Reactor ISS	120,767	131,998	82,511	61,281	57,829	*-21,887*	-21,230	*1,431*	3,452
Field Remediation	635,712	643,002	358,684	363,046	316,594	*-17,645*	4,362	*41,304*	46,452
Waste Operations	427,884	382,005	236,838	305,560	258,804	*62,941*	68,722	*42,548*	46,756
ESFC	64,325	65,309	45,924	45,978	39,662	*759*	54	*3,087*	6,316
Mission/General Support	325,985	417,716	208,985	208,985	205,233	*0*	0	*1,063*	3,752
Transition	3,979	3,747	3,979	3,979	3,747	*0*	0	*232*	232
Contingency	112,353	112,353							
TARGET COST TOTAL	**2,358,679**	**2,345,980**	**1,280,515**	**1,373,450**	**1,157,553**	***71,462***	**92,935**	***202,847***	**215,897**

Schedule Variance (PMB): $92,935K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Stop-work at KE/KW Reactor ISS (RL direction).
- Accelerated remediation work at 100-B/C, CLIN 4, and 100-H Areas; partially offset by negative variances associated with 100-K/300 Area descope, as well as delays of miscellaneous restoration, 118-K-1, and 100-IU-2/6 waste sites.
- ERDF Super Cells 9/10 construction ahead of schedule.
- ERDF transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): $215,897K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- 100-D/F/H/K and 100-IU-2/6 remediation underruns. Partially offset by significant project support costs at all active dig sites, particularly in the 300 Area.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, and construction. These efficiencies and increased waste volumes have more than offset cost overruns in direct project support.

ARRA - Performance Summary

April 2009 through November 2010

($K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
						SCHEDULE VAR ($)		COST VAR ($)	
	BAC	EAC	BCWS	BCWP	ACWP	*Aug*	Nov	*Aug*	Nov
RL0041.R1.2 - Cell 9 / ERDF	51,361	43,610	42,540	47,345	40,454	*7,999*	4,805	*6,533*	6,891
RL0041.R1.3 - Acc Rem / ERDF	55,511	39,661	32,073	31,587	23,323	*-1,633*	-486	*8,361*	8,264
RL0041.R1.4 - Cell 10	37,672	27,420	15,745	33,721	23,474	*17,053*	17,977	*9,293*	10,248
RL0041.R2 - 618-10	65,977	64,578	27,623	29,428	30,760	*3,646*	1,806	*-3,624*	-1,331
Contingency	9,050	9,050							
TARGET COST TOTAL	**219,571**	**184,318**	**117,980**	**142,082**	**118,010**	***27,064***	**24,101**	***20,563***	**24,072**

Schedule Variance (PMB): $24,101K

- ERDF Cells 9/10 construction running ahead of schedule.
- 100-F remediation started earlier than planned
- Infrastructure design completion ahead of schedule, as well as non-intrusive characterization at 618-10. Intrusive characterization work was replanned to better reflect the start due to final hazard categorization and beryllium delays.
- ERDF waste transportation and disposal less than planned; design and construction of new maintenance facilities, operations center, and container transfer area Phase 5 upgrade behind schedule.

Cost Variance (PMB): $24,072K

- ERDF Cells 9/10 construction is realizing efficiencies.
- ERDF equipment and facility upgrade costs less than budgeted.
- Fewer comments received and streamlining the confirmatory sampling process (e.g., use of fewer sub-sites than originally planned) have resulted in significantly lower analytical costs and positive cost variances in several accounts.
- 618-10 water line design has expended additional costs evaluating alternatives, and costs for safety documentation were significantly greater than planned due to complexity of the data. The extended duration of non-intrusive characterization has resulted in more hotel costs than planned. Safety documentation approval delays have resulted in change notices from subcontractor for schedule extensions.

RCC Issues

- Determining impact of radiological contamination encountered under the 324 facility. This will affect schedule for demolition of the 324 Complex.

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 16, 2010

TPA Milestone Status

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-16-140	SUBMIT REVISED RD/RA WORK PLANS FOR 100K AREA RODS AS PRIMARY DOCUMENT(S) PER HFFACO 11.6 WITH NEW PROPOSED MILESTONES INCLUDING THE FOLLOWING:	03/31/2011	
	• COMPLETE REMOVAL OF THE K WEST BASIN.		On Schedule
	• COMPLETE REMOVAL OF ALL SLUDGE (INCLUDES CONTAINER, SETTLER TANK SLUDGE) FROM K WEST BASIN EXCEPT KNOCKOUT POT CONTENTS.		On Schedule
	• COMPLETE REMOVAL OF KNOCKOUT POT CONTENTS.		On Schedule
	• COMPLETE TREATMENT AND PACKAGING OF FIRST CONTAINER OF TRU SLUDGE WASTE CERTIFIABLE FOR DISPOSAL AT WIPP.		At risk
	• COMPLETE TREATMENT AND PACKAGING OF SLUDGE FOR DISPOSAL AT WIPP.		At risk
	• BEGIN 105KW REACTOR INTERIM SAFE STORAGE.		Existing documentation is sufficient
	• COMPLETE 105KW REACTOR INTERIM SAFE STORAGE.		Existing documentation is sufficient
	• INITIATE SOIL REMEDIATION UNDER K WEST BASIN.		Existing documentation is sufficient
	• COMPLETE ALL INTERIM RESPONSE ACTIONS AT THE 100K AREA.		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-93-22	COMPLETE 105KE REACTOR INTERIM SAFE STORAGE IN ACCORDANCE WITH THE REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN.	07/31/2014	On Schedule

M-016-140 Status

Milestone M-016-140: ***Submit Revised RD/RA Work Plans for 100K Area RODS as Primary Document(s) per HFFACO 11.6 with New Proposed Milestones Including for the Following (Due: March 31, 2011):***			
Milestone Item (from bulleted list of activities in the M-016-140 Milestone)	**Existing RD/RA Work Plan**	**Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule) Each color indicates a separate document.**	**Applicable Decision Document**
Complete Removal of the K West Basin	1a) Use KE Document as basis – DOE/RL-2007-41, *Remedial Design Report and Remedial Action Work Plan for K Basins Interim Remedial Action 105-K East Basin Deactivation* 1b) Use KE Document as basis – DOE/RL-2007-48, *Remedial Design Report and Remedial Action Work Plan for the 100 Area Remaining Sites Interim Remedial Action 105-K East Basin Demolition*	1a) Develop new RD/RAWP for the KW Basin Deactivation, DOE/RL-2010-052 1b) Develop new RD/RAWP for KW Basin Removal and Demolition, DOE/RL-2010-053	1a) 1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment 1b) 1999 Interim Action ROD for 100 Areas Remaining Sites, ESD, Feb. 2004 & Aug. 2009.
Complete Removal of All Sludge (Includes Container, Settler Tank Sludge) From K West Basin Except Knock Out Pot Contents	None	3) Develop new RD/RAWP for KW Basin Sludge removal, including KOP contents , DOE/RL-2010-063	1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment
Complete Removal of Knock Out Pot Contents	The current *RDR/RAWP for K Basins Interim Remedial Action*, DOE/RL-99-89 R1, describes the remedial design for SNF removal and since the KOP contents will be removed as SNF, this will be the basis upon which changes will be managed.		

M-016-140 Status - continued

Milestone Item (from bulleted list of activities in the M-016-140 Milestone)	Existing RD/RA Work Plan	Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule) Each color indicates a separate document.	Applicable Decision Document
Complete Treatment and Packaging of First Container of TRU Sludge Waste Certifiable for Disposal at WIPP	DOE/RL-2006-06 Rev 0, *RD/RAWP for K Basins Interim Remedial Action, Sludge Treatment and Interim Storage,* is obsolete as it is based on an approach that was not implemented.	4) Develop new RD/RAWP for treatment and packaging of sludge for disposal at a national repository.	1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment
Complete Treatment and Packaging of Sludge for Disposal at WIPP			
Begin 105-KW Reactor Interim Safe Storage	DOE/RL-2005-26 Rev 1, *RAWP for KE/KW Reactor Facilities and Ancillary Facilities*	5) DOE/RL-2005-26 Rev 1 is sufficient for current ISS work at 105-KW.	EE/CA 2005-86 and 100-K Action Memo *New EE/CA and Action Memo will be required if Core Removal decision is made for 105-KW
Complete 105-KW Reactor Interim Safe Storage			
Initiate Soil Remediation Under K West Basin	DOE/RL-96-17 Rev 6 *RDR/RAWP for the 100 Area*	6) DOE/RL-96-17 Rev 6 may not require any further updates. TPA-CN-320 defines completion dates for 100K Area (inside the fence) soil wastes sites.	1999 Interim Action ROD for 100 Areas Remaining Sites, ESD, Feb. 2004 & Aug. 2009.
Complete All Interim Response Actions at the 100K Area		7) New integrated Field Execution Schedule encompassing all interim response actions at 100K Area – this will be provided as an attachment to a letter.	Applicable to all Decision Documents identified above, as well as the 100 Area Interim Action Burial Grounds ROD and 100 Area Interim Action Liquid Waste Sites ROD.

M-016-053 and M-016-143 Facilities Status

Phase 1 M-016-053: December 31, 2012	Phase 2 M-016-143: December 31, 2015	Phase 3 (to be determined)
110KE Gas Storage Facility	115KW Gas Recirculation Building	105KW Water Tunnel
115KE Gas Recirculation Building	117KW Exhaust Air Filter Building	116KW Reactor Exhaust Stack
116KE Reactor Exhaust Stack	119KW Exhaust Air Sampling Building	142K CVDF
117KE Exhaust Air Filter Building	166AKE Oil Storage Facility	1506K1 Fiber Optics Hut
118KE Horizontal Control Rod Storage Cave	166KE Oil Storage Vault	165KE Power Control Bldg
118KW Horizontal Control Rod Storage Cave	166KW Oil Storage Vault	142KA CVDF Generator Bldg
119KE Exhaust Air Sampling	1705KE Effluent Water Treatment Pilot Plant	165KW Power Control Bldg
1706KE Radiation Control Counting Lab	1713KER Shop Building	167K Cross-tie Tunnel Bldg
1706KEL Developmental Lab	1713KW Warehouse	1717K Maintenance Shop
1706KER Water Studies Recirculation Bldg	1714KW Oil and Paint Storage Shed	1724K Maintenance Shop
1713KE Warehouse	1720K Administration Office Building	1724KA Storage Shed
1714KE Oil and Paint Storage Shed	1724KB Gas Bottle Storage Facility	181KW River Pump House
183.4KW Clearwell	182K Emergency Water Reservoir Pump House	183KE Chlorine Vault Slab
183.1KW Head House	183.5KW Lime Feeder Building	183.2KE Sedimentation Basin
181KE River Pump House	183.6KW Lime Feeder Building	183.3KE Filter Basin
183.2KW Sedimentation Basin	MO101 Administration	183.4KE Clearwell
183.3KW Filter Basin	MO102 Administration	183.1KE Headhouse
MO048 Construction Lunch Trailer	MO214 Administration	183.5KE Lime Feeder
MO060 Conference Trailer	MO382 Office	183.6KE Lime Feeder
MO872 Leased trailer	MO401 Administration	185K Potable Water Treatment Plant
MO873 Leased trailer	MO402 Administration	1908K Outfall Structure
MO969 HPT Change Trailer	MO442 Classroom/Office	1908KE Outfall Structure
1605KE Guard Tower East	MO506 CVDF Lunch Room	190KE Main Pump House
	MO507 CVDF Conference Room	190KW Main Pump House
	MO907 Administration	MO054 Construction Lunch Room
	MO917 CVDF Administration	MO500 Administration
	MO928 Administration	MO236 KW Ops/HPT Change
		MO237 KW Construction Forces
		MO323 CVD Change Trailer
		MO955 Conference Room
		1605KW Guard Tower West

Field Work In Progress

Demolition Complete

Closure Actions and Documentation Complete

M-016-53 and M-016-143 Waste Sites Status

Phase 1 M-016-053: December 31, 2012		Phase 2 M-016-143: December 31, 2015		Phase 3 (to be determined)	M-016-57 (Initiate soil remediation at K East Basin)
100-K-3	100-K-71	100-K-1	120-KE-2	100-K-35	UPR-100-K-1
100-K-6	100-K-77	100-K-4	120-KE-3	100-K-43	Legend:
100-K-18	100-K-79	100-K-5	120-KE-4	100-K-47	Excavation in progress
100-K-19	116-KE-1	100-K-13	120-KE-5	100-K-55	Failed CSNA pending Contract Action
100-K-34	116-KE-3	100-K-14	120-KE-6	100-K-56	Mixed Failed and RTD
100-K-36	116-KE-6A	100-K-25	120-KE-8	100-K-72	Closure Docs in Process
100-K-37	116-KE-6B	100-K-27	120-KE-9	100-K-73	Closure documentation complete
100-K-38	116-KE-6C	100-K-48	120-KW-6	100-K-74	Backfill complete
100-K-46	116-KE-6D	100-K-49	126-KE-2	100-K-75	Revegetation complete
100-K-53	118-KE-2	100-K-54	130-K-2	100-K-80	
100-K-55	120-KW-1	100-K-55	130-KE-2	100-K-81	
100-K-56	120-KW-2	100-K-56	130-KW-1	100-K-82	
100-K-57	120-KW-3	100-K-60	130-KW-2	116-K-3	
100-K-62	120-KW-4	100-K-61	132-KW-1	116-KE-2	
100-K-63	120-KW-5	100-K-66	1607-K1	116-KW-2	
100-K-64	120-KW-7	100-K-67	1607-K2	118-KW-1	
100-K-68	130-KE-1	100-K-83	1607-K4	128-K-2	
100-K-69	132-KE-1	116-KW-1	1607-K5		
100-K-70	1607-K3	118-KW-2	1607-K6		
		120-KE-1	100-K-102		
			100-K-109		

M-093-022 Status

- The NEPA Supplement Analysis and an Amended ROD to the Hanford Eight Surplus Reactors EIS were completed and issued by DOE adding an option for near-term dismantlement of the 105KE Reactor. This supports near-term dismantlement of the reactor core vs. placing the reactor in interim safe storage.
- Public comment period for the 105KE Reactor dismantlement EE/CA is complete. Action Memo is being drafted.
- Graphite sample analysis results have been received and incorporated in the safety analyses.
- A design review of the preliminary design associated with the removal of the 105-KE Reactor was completed.

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-2/3 in a timely manner.	
Waste Site Remediation		Risks have been realized associated with radiological conditions at waste site UPR-100-K-1 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 ($000)					BAC
	BCWS	BCWP	ACWP	SV	CV	
012.01 - Program Management	12836	12836	11935	0	901	25643
012.02 - Basin Operations & Maintenance	21569	21569	23490	0	-1921	64607
012.03 - Facility Operations	9131	9131	10021	0	-890	42752
012.09 - Sludge & Fuel Disposition Management	4035	4035	4618	0	-583	5039
012.11 - 100K Facilities Deactivation	524	524	545	0	-21	524
012.13 - KE Basin Demolition	9220	9220	10402	0	-1182	9220
012.14 – KW Basin Decontamination & Deactivation	0	0	0	0	0	16455
012.15 0 KW Basin Demolition	0	0	0	0	0	25864
012.16 - Sludge Treatment Project	76034	72564	72348	-3470	216	267813
012.90 - Assessments - PBS RL-12	5904	5904	6715	0	-811	13300
012.98 - Transition	21768	21768	23188	0	-1420	21768
012.99 - PBS RL-12 G&A and Direct Distributables	21278	21278	21153	0	125	87131
TOTAL RL-0012 - SNF Stabilization and Disposal	182299	178829	184415	-3470	-5586	580116

PBS RL-0012 – Project Performance - continued

- Schedule Performance (-$3.5M / -1.9 %)
  - The STP negative variance is due to: 1) Management decisions to hold procurement of the multi-canister overpacks (MCOs) until engineering evaluations were conducted (-$1.0M); 2) difficult contract negotiations with the Phase 2 technology vendors (-$0.7M); 3) several subcontracts for the Engineered Container Retrieval, Transport, and Storage (ECRTS) were not awarded as planned, and therefore now behind schedule (-$0.8M); 4) Settler Tank sampling activities starting late due to the impact of the Settler Retrieval pump issues (-$0.1M); 5) KOP Design and Testing activities behind schedule (-$0.2M); and 6) Engineered Container 210 sampling is behind schedule due to 100K basin vacuuming activities (-$0.7M).
- Cost Performance (-$5.6M / -3.1%)
  - The 100K negative variance (-$3.7M) has two main components: 1) the impact to demolition and waste shipments from the K East Basin excavation has a variance of (-$1.2M). The effort was completed in FY2009. 2) K West Basin Operations (-$2.5M) impacts remaining from implementation of operational controls and cost to maintain aging facilities in the 100K Area.
  - The STP positive variance (+$0.2M) is due to: 1) success of the Knockout Pot (KOP)inspection activities, which is also influencing the fact that the testing requirements are proving to be less than originally planned (+2.1M); offset by 2) negative cost variance in the Engineered Container activities due to additional characterization analysis required on sludge samples and the design costs for the retrieval and transportation system (-$1.9M).
  - The PBS RL12 G&A and Assessments negative variance (-$2.1M) is related to the overall cost overrun of the PBS, drawing a larger allocation of this costs to the PBS.

PBS RL-0041 – Project Performance

WBS and Title	Contract to Date ($000)					
	BCWS	BCWP	ACWP	SV'$	CV $	BAC
041.02.01.01 – 100K Area Planning and Integration	616	556	421	-50	135.2	1375
041.02.02.01 – 100–K Group 1 Structures Remediation	20429	19582	20227	-848	-645	22765
041.02.02.02 – 100–K Group 1 Remediation	32460	32149	23719	-311	8430	85893
041.02.03.01 – 100–K Group 2 Structures Remediation	3276	2290	1560	-986	730	6943
041.02.03.02 – 100–K Group 2 Remediation	2665	5641	779	2976	4862	5640
041.02.04.01 – 100–K Group 3 Structures Remediation	3502	1802	1878	-1700	-76	32948
041.02.04.01 – 100–K Group 3 Remediation	4	835	0	831	835	835
041.02.06.01 – KW Deactivation	12342	15015	12853	2674	2162	20192
041.02.07.01 – 100K Area Utilities Re-Route	21753	21743	29882	-10	-8139	21753
041.02.08.01 – 105KE Reactor Disposition - ISS	9494	8810	9402	-683	-592	9494
041.02.08.02 – 105KW Reactor Disposition	0	0	12	0	-12	22696
041.02.08.03 – Site Preparation	2649	2649	2597	0	52	11951
041.02.08.04 – 105KE Obstruction Removal	4011	3057	2945	-955	112	20323
041.02.08.05 – Core Removal	6615	5543	5514	-1072	28.8	25180
041.02.08.06 – 105KE Demolition	0	0	.0	0	0	115229
041.02.08.07 – 105 KE / KW Reactor Footprint Waste Sites	0	0	0	0	0	12296
041.02.10.01 – RL41 Transition Sub Assignments	0	0	29	0	-29	0
041.02.11.01 – 100K Project Management	11487	10666	13214	-821	-2548	68367
041.02.12.01 – 100K Bioremediation	0	0	0	0	0	4781
041.90 - PBS RL-0041 Assessments	3467	3467	4649	0	-1183	28047
041.98 - WBS 041 Transition	10755	10755	9383	0	1373	12155
041.99 - PBS RL-41 PRC G & A and Direct Distributables	22406	22406	20211	0	2195	87273
Total – RL-0041 – Nuc Fac &D – RC Closure Project	168772	167818	159884	-854	7935	549384

PBS RL-0041– Project Performance - continued

- Schedule Performance (+$.95M /+0.6%)
  - Negative schedule variance remains for some D&D work (primarily asbestos abatement due to insulator availability), residual utility re-route delays and 105KE Reactor Preliminary Design delays. This variance is offset by waste site remediation and K West Deactivation debris removal campaign acceleration.
- Cost Performance (+$7.9M/+4.7%)
  - The positive cost performance is primarily from Waste Site Remediation (+$14.3). This variance consists of 100-K Group 1 Remediation (+$8.4M) due to 100-K-55 Part 1 and CSNA sites completing at lower cost than anticipated, 100-K Group 2 Remediation (+$4.9) completing 100-K-56, Part 2 completing at lower cost than anticipated and 100-K Group 3 Remediation (+$1M) caused by early completion of the CSNA sites at less cost than anticipated. In addition, K West Deactivation debris removal campaign exceeded performance goals (+$2.2M) and G&A/direct distributable costs (+$2M) being less than planned. These positive variances are being offset by 100K Project Management activities (-$2.5M) where general site cleanup labor has been utilized more than planned and 100K Area Utilities Reroute (-$8.1M) due to design changes. Additional negative cost variance is expected as design changes are realized.