River Corridor/Remediation of 100-K Area
Tri-Party Agreement Milestone Review
Meeting Minutes
June 17, 2010

Approval: Jane A. Hedges by John B. Price 7/15/2010 Date: _____
J. Hedges
Ecology IAMIT Representative

Approval: _____ Date: 7/21/10
M.S. McCormick
DOE IAMIT Representative

Approval: _____ Date: 7-15-2010
R.A. Lobos
EPA IAMIT Representative

Minutes Prepared by: _____ Date: 7/22/10
T.W. Noland
Mission Support Alliance, LLC

Balone, S.N.*	RL
Bignell, D.T.	WCH
Black, D.G.	CHPRC
Blackburn J.E.	WCH
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
Donnelly, J.W.*	WCH
Einan, D.R.	EPA
Faulk, D.A.	EPA
Foley, B.L.*	DOE
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
Knox, K.E.*	KCR
Lobos, R.A.*	EPA
McCormick, M.S.	RL
Menard, N.M.*	Ecology
Morrison, R.D.*	MSA
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
Romine, L.D.*	RL
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
Williamson, R.U.*	WCH
Wintczak, T.M.	WCH
Wise, B.K.	MSA
Yasek,D.M.*	WCH
Administrative Record	
*Attendees	

River Corridor/Remediation of 100-K Area
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Meeting Minutes
June 17, 2010

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 March 2010 through May 2010, which included the milestone status, significant accomplishments, significant actions planned for the next three months, performance summary, and issues. All of the milestones are on schedule, with the exception of M-16-47, which is currently at risk.

Quarterly Summary

TPA Change Request M-16-09-06 for removal of pipeline segments 100-D-31: 10, 11 and 12 is in RL concurrence. The pipelines will be removed after the building is demolished. The building is sitting over pipelines 10, 11 and 12. A bat study will be performed before the building is demolished.

Milestone Status

Regarding M-16-64, WCH stated that backfill of the final remaining waste site was completed last week, and RL has signed off on the Cleanup Verification Package (CVP) and Remaining Site Verification Package (RSVP) for transmittal to Ecology. EPA initiated a discussion regarding the four at-risk milestones M-16-47, M-16-55, M-16-145 and M-16-00A. WCH acknowledged that any milestone designated as at risk should be included in the milestone status and the basis for risk. WCH stated that M-16-55 (100-N) is listed as at risk for several reasons. Preparations for remediation in the 100-N Area are under way, with the sequencing and scheduling of D4 work being one challenge. Another challenge is clarifying the three or four remedies identified the Record of Decision (ROD) and what defines completion for bioremediation (one of the remedies). Also, a recent discovery of waste sites that are not accessible because they are underneath the reactor building presents a challenge. WCH stated that the intent is to meet with EPA and Ecology to discuss clarification of the at-risk milestones regarding some of the scope of work.

M-16-145 encompasses waste sites in the reactor area outside the fence lines, and some new waste sites have been discovered. Confirmatory sampling has not been completed, and it is unknown whether the milestone completion date will be impacted.

A new contractor, FE&C, is scheduled to start field remediation work in the next 30 days at 100-N. A request for proposal (RFP) is out for a new contractor in the 100-D area, and the contract is on schedule to be implemented by the end of this summer. RL noted that efforts are under way to integrate start of FR work at 100-N without interfering with D4 and ISS work.

Significant Accomplishments - For Last 3 Months

M-89 - 324 Bldg Non-Permitted MW Units Closure - Yakama Nation (YN) inquired about documentation regarding the decision that the 324 Building would not need a RCRA permit. WCH noted that Ecology ordered closure of 324 under a formal settlement agreement around 1994. RL submitted a closure plan in accordance with the legal order and has been working to the closure plan since that time. The M-89 milestone was created during that time to govern some aspects of the closure. It was also noted that the closure plan went through a public comment period, and the focus sheet should provide additional clarification.

Performance Summary

The performance summary, including Recovery Act funding, was provided.

RCC Issues

Next Steps and Path Forward Regarding Continued Use of RESRAD for Chemicals

RL stated that the next steps in the path forward regarding the use of RESRAD are being worked with EPA and Ecology and is in support of the interim action closures that are currently under way. A meeting with EPA and Ecology to address the modeling in general for the final Record of Decision (ROD) is also planned.

Obtaining Approval of 100-D Waste Site Closeout Documents

RL stated that this issue is associated with the three waste sites discussed during the May 20, 2010 Inter-Agency Management Integration Team (IAMIT) meeting. RL is planning to send the final revised CVP/RSVPs for the three waste sites to Ecology next week, and requested an expedited response from Ecology.

YN expressed concern regarding the source of backfill for the waste sites at 100-D and the cleanup levels that are being used. Ecology asked YN whether its concern encompassed backfilling all waste sites or at D Area or certain sites that have had issues. YN responded that its concern is associated with certain sites that have been identified as exceeding cleanup levels.

Breached 324 B-Cell Sump Liner May Impact 324 Plan and Schedule

RL stated that a subcontractor to WCH will be doing characterization investigations underneath the liner to determine whether it will be acceptable to move the 324 B-Cell off the liner.

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. EPA initiated a discussion regarding Milestone M-16-155, which has been changed to M-15-116. M-15-116 is the treatability test plan for vadose zone soils at the K West head house area. The treatability test plan is on schedule to meet the milestone date and be delivered to the regulators by August 31, 2010. The plan has been drafted and is in internal review.

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: (see handout)

RL provided a color-coded chart delineating the scope included in the Remedial Design/Remedial Action (RD/RA). M-16-140 is due March 31, 2011; however, the individual RD/RAs will be released in series between now and March 31. During that time, there will be discussions to set dates for the milestones that are specified in the RD/RA work plans.

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

The first closure documentation for Phase 1 activities in 1706 (M-16-53) is planned for completion by the end of calendar year 2010. RL will send Ecology an e-mail with an approximate time frame that the documentation will be submitted for review.

RL noted that the 183.1 West head house has been taken down. Six feet of soil surrounding the facility has been removed, which was contaminated with sodium dichromate (chrome VI), and results from sampling indicated that more soil removal is needed to 15 feet. The soil remediation will be coordinated with the removal of the south wall of the sedimentation basin (20 feet high) and the treatability test that is being performed there. The concrete from the sedimentation basin is clean and will be used for backfilling in U Canyon.

100K Project Risk Status

RL noted that the risk status for the subprojects K West Basin, Facility D4, and sludge treatment have not changed since the last quarterly report. An emerging risk is the additional contamination at waste sites resulting in additional volume having to be removed.

Tri-Party Agreement Major Milestone Management Review
June 17, 2010

Name	Organization	Mail Stop	Phone
Terry Noland	MSA		376-6574
Kathy Knox	Knox Reporting		946-5535
Jean Vanni	Jean A. Vanni		945-1100
Jack Donnelly	WCH		372-2043
Regena Williamson	WCH		372-9127
Rod Lobos	EPA		376-3749
Cheryl Whalen	Ecology		372-7972
~~Shirley Olinger~~	~~ODOE~~		~~(541)963-0853~~
Nina Menard	ECY		372-7941
Chris Smith	DOE-RL		372-1544
Joe Franco	DOE		372-0649
JANE HEDGES	Ecy		372-7905
Rom Mackerson	MSA/EPA1		376-2994
Donna Uasek	WCH		372-9229
Wayne Johnson	WCH		372-9664
Steve Balone	DOE-RL		376-0236
Ellwood Glossbrenner	DOE-RL		3765828
Rick Bond	Ecology		372-7885
David Watson	CH2M Hill		373-3250
Bryan Foley	DOE-RL		376-7097
Larry Romine	DOE-RL		376-4747

June 17, 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: Rod Lobos

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
11:00 am	Adjourn Milestone Review

RIVER CORRIDOR CLOSURE PROJECT

TPA Quarterly Review

For Period: March - May 2010

Tri-Party Agreement

River Corridor Milestones:

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

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

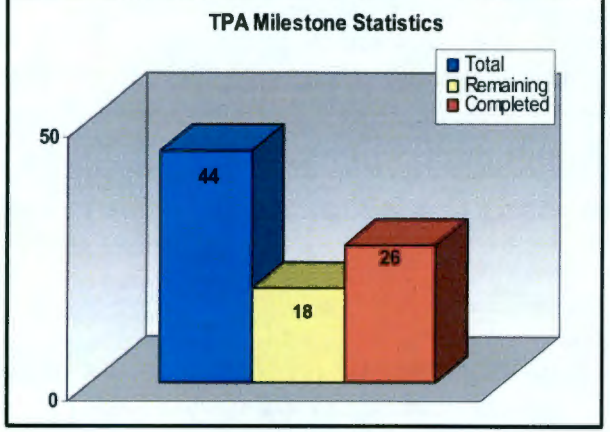
June 17, 2010

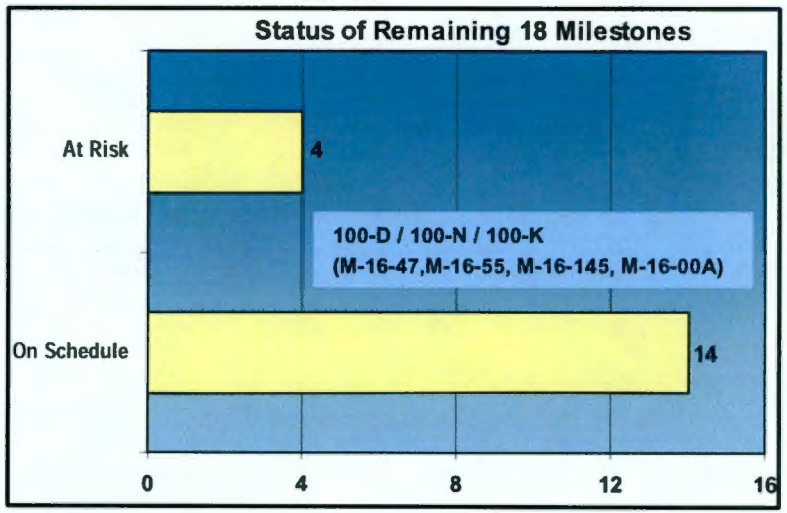
Protecting the Columbia River

E0803018

TPA Milestone Statistics
(Includes Target and Commitment Milestones)

Total	Remaining	Completed	Completed On	Completed Ahead
44	18	26	4	22





Quarterly Summary (March – May 2010)

- Completed one TPA milestone:
  - -- M-16-94 - 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 (due 11/30/10) - 4/16/10

- No TPA change requests were approved during the past quarter. TPA change request M-16-09-06 (100-D Area) is in RL concurrence and will be transmitted to Ecology.

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2011)				
M-16-64	09/30/10	Complete Interim RA, 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)	On schedule	Completion expected summer 2010.
M-16-51-T02	12/31/10	Complete Excavation of 3 of 5 100-H Burial Grounds	On schedule	
M-16-51	12/31/11	Complete Interim RA for 100-H Area	On schedule	
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.
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	On schedule	
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 (milestones through 12/31/2011)				
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	On schedule	305B, 306E, 333 completed under M-94-06 (March 2008). 3706, 306W, 3720 completed under M-94-07 (March 2009).

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Started equipment mobilization for concrete removal at 100-C-7.
- Continued overburden removal and loadout of 100-D-31 pipelines.
- Continued 100-D/100-H Area waste site closure verification sampling.
- Completed excavation and loadout of six waste sites in 100-IU-2/6.
- Awarded 100-N remaining sites remediation subcontract.
- Initiated backfill at 618-1 Burial Ground.
- Awarded 300 Area remediation subcontract for north of Apple Street waste sites.
- Completed Phase III groundwater upwelling characterization field activities (in support of remedial investigation of Hanford Site releases to Columbia River).
- Issued 100-F/IU-2/IU-6 – Segment 1 Orphan Sites Evaluation Report, Rev. 0.
- Received approval of 15 waste site closure documents during this reporting period.
- American Recovery and Reinvestment Act (ARRA) - Issued RFP for 100-F Area remediation; received bids.
- ARRA - Completed 618-10 vertical pipe unit (VPU) and trench radiological characterization activities.
- ARRA - Completed 618-10 VPU soil sampling activities.

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

- Initiated grout placement in REC B-Cell, High-Level and Low-Level vaults, and SMF south cell.
- Completed high bay demolition.

M-93 – Reactors Final Disposition:

- Continued 109N safe storage enclosure (SSE); continued 105N SSE design.
- Continued 105N above/below-grade demolition and loadout.

M-94 – 300 Area Surplus Facilities Disposition:

- Installed gantry and track for 327 hot cell removal; removed Hot Cells A-I and upper SERF cells from building and built grout boxes.
- Completed above-grade demolition and loadout of 336 High Bay Testing Facility and 338 Maintenance Building.

Plastic Sleeve Containing Soil Sample (618-10)

327 Facility Hot Cell Removal

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

ERDF:

- For period of March through May 2010, disposed more than 464,000 tons of waste in ERDF.
- ARRA – Completed excavation of Super Cell 10, nearly four months ahead of schedule.
- ARRA – Started manufacturing and placing bentonite admix in Super Cell 9.
- ARRA – Started construction of Super Cells 9/10 crest pad buildings.
- ARRA – Issued notice-to-proceed for design of equipment, truck, and container maintenance shops, and ERDF operations center.
- ARRA – Received final design for fueling station.

Admix Production

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Initiate 100-N remaining sites remediation activities.
- Begin 100-N bioremediation pilot system operation.
- ARRA - Award 100-F remediation subcontract.
- ARRA – Award confirmatory sampling subcontract
- ARRA – Commence 618-10 intrusive characterization.
- Deliver Draft B of the RCBRA report ecological and human health volumes to RL/regulators for review.

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

- Complete 324 SMF Cell, REC C-Cell, and REC Cell ductwork fixative application; complete B-Cell and A-Cell grouting.
- Continue deactivation/decommissioning of 324 support areas.

M-93 – Reactors Final Disposition:

- Begin 105N Fuel Storage Basin above-grade demolition.
- Complete 109N SSE structural steel erection.

M-94 – 300 Area Surplus Facilities Disposition:

- Begin 327 above-grade demolition.
- Continue shipping gloveboxes from 308 laboratory to Perma-Fix.
- Accept transfer of 307 Basins, 310 TEDF, 340, and 3790 facilities for disposition.

ERDF:

- ARRA – Complete Super Cell 9 admix placement.
- ARRA – Start placement of bentonite admix for Super Cell 10.
- ARRA – Receive bids for batch plant.
- ARRA – Complete designs for container, equipment, and truck maintenance shops, and ERDF operations center.

PERFORMANCE SUMMARY (includes ARRA)

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

($K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
						SCHEDULE VAR ($)		COST VAR ($)	
	BCWS	EAC	BCWS	BCWP	ACWP	*Feb*	May	*Feb*	May
D4	659,806	541,682	290,335	354,908	231,910	*53,194*	64,573	*113,622*	122,998
Reactor ISS	120,767	113,751	70,720	51,087	48,039	*-17,103*	-19,633	*3,609*	3,048
Field Remediation	611,634	646,797	305,827	302,607	264,609	*9,055*	-3,220	*41,131*	37,998
Waste Operations	414,039	393,000	173,515	226,379	204,874	*34,061*	52,864	*3,577*	21,505
ESFC	52,391	54,814	37,043	38,167	34,532	*1,655*	1,124	*4,003*	3,635
Mission/General Support	324,995	444,615	189,077	189,077	190,849	*0*	0	*-3,199*	-1,772
Transition	3,979	3,747	3,979	3,979	3,747	*0*	0	*232*	232
Contingency	155,991	155,991							
TARGET COST TOTAL	**2,343,601**	**2,354,397**	**1,070,496**	**1,166,204**	**978,560**	***80,863***	**95,708**	***162,976***	**187,644**

Schedule Variance (PMB): $95,708K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Stop-work at KE/KW Reactor ISS (RL direction).
- Accelerated remediation work at 100-D/H burial grounds and accelerated completion of 100-B-14 and 100-C-9; offset by negative variances associated with CLIN 3 and 100-K/300 Area descope, as well as delays at 100-N, 300 Area, and 100-IU-2/6 waste sites.
- Transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): $187,644K

- 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 significant project support costs at all active dig sites.
- 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 May 2010

($K)

	IPB		CUMULATIVE			Previous Quarter Comparison SCHEDULE VAR ($)		COST VAR ($)	
	BCWS	EAC	BCWS	BCWP	ACWP	*Feb*	May	*Feb*	May
RL0041.R1.2 & .3 - ERDF	115,000	100,914	34,864	47,958	39,457	*7,646*	13,094	*2,620*	8,501
RL0041.R1.2 - M/G Support	2,095	2,095	2,095	2,095	1,705	*0*	0	*85*	390
RL0041.R1.3 -Acc Rem	18993	16505	2225	2678	1043	*447*	453	*351*	1,635
RL0041.R2 - 618-10	64,978	64,958	13,848	14,191	16,988	*2,273*	343	*-1,656*	-2,797
Contingency	12,795	12,795							
TARGET COST TOTAL	**213,862**	**197,266**	**53,032**	**66,922**	**59,193**	***10,365***	**13,890**	***1,400***	**7,729**

Schedule Variance (PMB): $13,890K

- ERDF equipment purchases and various projects are running ahead of schedule.
- Schedule efficiencies were gained at 100-IU confirmatory sampling sites when several WSRFs were prepared with no sampling or closure documentation necessary.
- Cone penetrometer installation and characterization, as well as soil sampling, are complete. Also, infrastructure design ahead of schedule, and infrastructure construction started ahead of schedule.

Cost Variance (PMB): $7,729K

- ERDF cell construction and disposal upgrades are realizing efficiencies.
- Fewer comments received and streamlining the confirmatory sampling process (e.g., going to WSRFs) have resulted in positive cost variances in several accounts. Also, artificial positive cost variance in the non-site specific support (NSSS) as the budget is level-loaded across the whole activity, but the subcontractor is not scheduled to start for several months.
- 618-10 water line design has expended additional costs evaluating alternatives, and costs for intrusive characterization mobilization were much greater than planned. The extended duration of non-intrusive characterization has resulted in more hotel costs than planned.

RCC Issues

- Next steps and path forward regarding continued use of RESRAD for chemicals.
- Obtaining approval of 100-D waste site closeout documents.
- Breached 324 B-Cell sump liner. May impact 324 plan and schedule.

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

June 17, 2010

EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

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-16-140	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: • 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-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

M-016-140 Status

- Develop Integrated RD/RAWP Schedule – COMPLETE
- Submit Draft A RD/RA Work Plans for M-016-140 Milestone - Due: March 31, 2011
- Individual RD/RAWPs are discriminated by color below.

Milestone Item	Existing RD/RA Work Plan	Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule)	Decision Document
Complete Removal of the K West Basin	DOE/RL-96-17 R6 "RDR/RAWP for the 100 Area"	1a) Develop new RD/RAWP for the K West Basin Deactivation. Use the K East Deactivation RDR/RAWP as a model to start with. 1b) Develop new RD/RAWP for K West Basin Removal and Demolition	Interim Action ROD for 100 Areas Remaining Sites, EPA/ROD/R10-99/039-ESD, Feb. 2004. ROD for K Basin Interim Remedial Action
Complete Removal of All Sludge (Includes Container, Settler Tank Sludge) From K West Basin Except Knockout Pot (KOP) Contents		2) Develop new RD/RAWP for K West Basin Sludge removal (excludes KOP contents that will be managed as spent nuclear fuel [SNF]).	ROD for K Basin Interim Remedial Action
Complete Removal of KOP 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 bases upon which changes will be managed.	3) As the KOP contents will be removed as SNF, changes in the existing design may be processed as a TPA Change Notice to the existing RDR versus revising the current document.	ROD and ROD Amendment for K Basin Interim Remedial Action
Complete Treatment and Packaging of First Container of TRU Sludge Waste Certifiable for Disposal at WIPP	DOE/RL-2006-06 RO "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) Revise DOE/RL-2006-06 R0 or develop new RD/RAWP for K Basins Sludge Treatment	ROD and ROD amendment for K Basin Interim Remedial Action
Complete Treatment and Packaging of Sludge for Disposal at WIPP	DOE/RL-2006-06 RO "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) Revise DOE/RL-2006-06 R0 or develop new RD/RAWP for K Basins Sludge Treatment	ROD and ROD amendment for K Basin Interim Remedial Action

M-016-140 Status - continued

Milestone Item	Existing RD/RA Work Plan	Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule)	Decision Document
Begin 105KW Reactor Interim Safe Storage	DOE/RL-2005-26 R0 "RAWP for KE/KW Reactor Facilities and Ancillary Facilities"	5) DOE/RL-2005-26 R0 may require revision.	EE/CA 2005-86 and 100-K Action Memo
Complete 105KW Reactor Interim Safe Storage	DOE/RL-2005-26 R0 "RAWP for KE/KW Reactor Facilities and Ancillary Facilities"	5) DOE/RL-2005-26 R0 may require revision.	EE/CA 2005-86 and 100K Action Memo
Initiate Soil Remediation Under K West Basin	DOE/RL-96-17 R6 "RDR/RAWP for the 100 Area"	6) DOE/RL-96-17 R6 may not require any further updates. TPA-CN-320 defines completion dates for 100K Area (inside the fence) soil wastes sites.	Interim Action ROD for 100 Areas Remaining Sites, EPA/ROD/R10-99/039-ESD, Feb. 2004
Complete All Interim Response Actions at the 100K Area		7) New integrated Response Action Work Plan that includes the integrated schedule for all response actions to complete this milestone.	ROD for 100A Burial Grounds, EPA/ROD/R10-00/121, and ROD for Liquid Waste Sites. Also applicable to RODs/Decision Documents identified above.

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

Field Work In Progress

Demolition Complete

Closure Actions and Documentation Complete

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

Phase 1[1] M-016-053: 31-Dec-12		Phase 2[1] M-016-143: 31-Dec-15		Phase 3[1] (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	
100-K-18	100-K-79	100-K-5	120-KE-4	100-K-47	
100-K-19	116-KE-1	100-K-13	120-KE-5	100-K-55	
100-K-34	116-KE-3	100-K-14	120-KE-6	100-K-56	
100-K-36	116-KE-6A	100-K-25	120-KE-8	100-K-72	
100-K-37	116-KE-6B	100-K-27	120-KE-9	100-K-73	
100-K-38	116-KE-6C	100-K-48	120-KW-6	100-K-74	
100-K-46	116-KE-6D	100-K-49	126-KE-2	100-K-75	
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			

Field Work In Progress

Field Work Complete

Closure Actions and Documentation Complete

M-093-022 Status

- The following CERCLA documentation was approved:
  - Radiological Air Monitoring Plan for 105KE Reactor Core Characterization
- The NEPA Supplement Analysis and Amended ROD to support 105KE Reactor dismantlement have been drafted and sent to DOE-HQ for review and approval.
- The EE/CA for 105KE Reactor Dismantlement has been drafted and is in RL internal review.
- Core boring is complete for cores 1, 2, and 3. Core 4 boring is anticipated to complete this week. Access port 4C will be video taped and surveyed to establish radiological conditions and the graphite core will be scraped for sampling.

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	10717	10717	10041	0	676	25862
012.02 - Basin Operations & Maintenance	16163	16163	18221	0	-2058	64700
012.03 - Facility Operations	7059	7059	7884	0	-825	42287
012.09 - Sludge & Fuel Disposition Management	3090	3090	3302	0	-212	5051
012.11 - 100K Facilities Deactivation	524	524	545	0	-21	524
012.13 - KE Basin Demolition	9220	9220	10403	0	-1183	9220
012.14 – KW Basin Decontamination & Deactivation	0	0	0	0	0	16015
012.15 0 KW Basin Demolition	0	0	0	0	0	24961
012.16 - Sludge Treatment Project	54999	51927	50541	-3072	1386	267872
012.90 - Assessments - PBS RL-12	4616	4616	5195	0	-579	13276
012.98 - Transition	21768	21768	21768	0	0	21768
012.99 - PBS RL-12 G&A and Direct Distributables	16959	16959	16670	0	289	85388
TOTAL RL-0012 - SNF Stabilization and Disposal	145115	142043	144571	-3072	-2528	576924

PBS RL-0012 – Project Performance - continued

- Schedule Performance (-$3.1M / -2.1 %)
  - The STP negative variance is due to: 1) Management decisions to hold procurement of the MCO's and the IWTS/MCO system refurbishments until engineering evaluations were conducted (-$1.6M); 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 (-$0.5M); and 4) Settler Tank sampling activities not starting due to the impact of the Settler Retrieval pump issues (-$0.3M).
- Cost Performance (-$2.5M / -1.8%)
  - The 100K negative variance (-$3.6M) 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 (-$2.4M) impacts remaining from implementation of operational controls after a potential inadequacy in the safety analysis (PISA) was declared preventing the operation of the Integrated Water Treatment System (IWTS) in the K West Basin in prior months and cost to maintain aging facilities in the 100K Area.
  - The STP positive variance (+$1.4M) is due to: 1) efficiencies in testing support and materials for the Engineered Container Retrieval and Transportation Systems (ECRTS) and MASF facility costs have been less than planned to support a TRL-3 assessment (+$0.3M); 2) due to success of the KOP inspection activities, the design and testing requirements are proving to be less than originally planned (+1.1M).
  - The PBS RL12 G&A and Assessments negative variance (-$0.3M) 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 & Integration	624	530	332	-95	197	1992
041.02.02.01 - 100-K Group 1 Structures Remediation	20683	18306	12351	-2377	5955	29962
041.02.02.02 - 100-K Group 1 Remediation	10799	10628	12566	-171	-1938	40963
041.02.03.01 - 100-K Group 2 Structures Remediation	1474	1688	869	215	819	8947
041.02.03.02 - 100-K Group 2 Remediation	291	229	93	-62	137	27708
041.02.04.01 - 100-K Group 3 Structures Remediation	100	602	154	502	448	42293
041.02.04.02 - 100-K Group 3 Remediation	7	0	0	-7	0	14129
041.02.06.01 - KW Deactivation	7682	12640	5545	4958	7095	20269
041.02.07.01 - 100K Area Utilities Reroute	20130	10657	8991	-9473	1666	21758
041.02.08.01 - 105KE Reactor Disposition - ISS	7141	6368	5383	-773	985	9512
041.02.08.02 - 105KW Reactor Disposition	0	0	13	0	-13	68342
041.02.08.03 - Site Preparation	1844	1841	1206	-3	634	12355
041.02.08.04 - 105KE Obstruction Removal	2330	2514	1691	184	823	20553
041.02.08.05 - Core Removal	4283	3970	3135	-314	834	25241
041.02.08.06 - 105KE Demolition	0	0	0	0	0	12112
041.02.08.07 - 105 KE/ KW Reactor Footprint Waste Sites	0	0	0	0	0	13227
041.02.10.01 - RL41 Transition Subc Assignments	0	0	28	0	-28	0
041.02.11.01 - 100K Project Management	6861	6749	8844	-112	-2095	67582
041.02.12.01 - 100K Bioremediation	0	0	0	0	0	4622
041.90.01.01 - PBS RL-0041 Assessments, MSC Services to PRC	2073	2073	2679	0	-606	27496
041.90.02.01 - PBS RL-0041 Assessments, PRC Services to PRC	0	0	0	0	0	0
041.98.01.01 - WBS 041 Ramp-up/Transition Fac	0	0	0	0	0	0
041.98.01.02 - WBS 041 Ramp-Up/Transition IRM	0	0	0	0	0	0
041.98.01.03 - WBS 041 ARRA Training	0	0	0	0	0	0
041.98.01.04 - WBS 041 ARRA Relocation & Contract Proposal	0	0	0	0	0	0
041.98.01.05 - WBS 041 Project Services Distribution	9472	9472	7156	0	2316	12158
041.98.02.01 - PBS RL-41 PRC Rewards and Recognition Program	0	0	0	0	0	0
041.99.01.17 - PBS RL-41 PRC General & Administrative	11969	11969	7864	0	4104	54107
041.99.01.18 - PBS RL-41 PRC Direct Distributables	3611	3611	3150	0	461	31043
Total -RL-0041 -Nuc Fac D&D -RC Closure Proj	111375	103848	82053	-7528	21795	566373

PBS RL-0041– Project Performance - continued

- Schedule Performance (-$7.5M /-6.8%)
  - The negative schedule variance is primarily due to utility re-route delays (-$9.5M) and facility demolition delays (-$3.0M) at 183.1KW Head House where work is paused while adjacent waste sites are remediated, 115KE and 117KE where work is paused until after 116KE demolition, and at a few other facilities requiring asbestos abatement due to insulator availability. This variance is offset by the acceleration of K West Deactivation debris removal campaign (+$5.0M).
- Cost Performance (+$21.8M/+21.0%)
  - The positive cost performance is from facility demolition (+$7.2M), K West Deactivation debris removal campaign (+$7.1M), G&A/direct distributables (+$6.9M) being less than planned, K East Reactor activities (+$3.3M) being conducted more efficiently. This variance is being offset by project management (-$2.1M) where general site cleanup labor has been utilized more than planned and waste site remediation (-$1.8M) due to cost corrections from ERDF and additional contamination encountered above planned quantities.