

TPA Quarterly Review



Tri-Party Agreement

River Corridor Milestones:

M-16

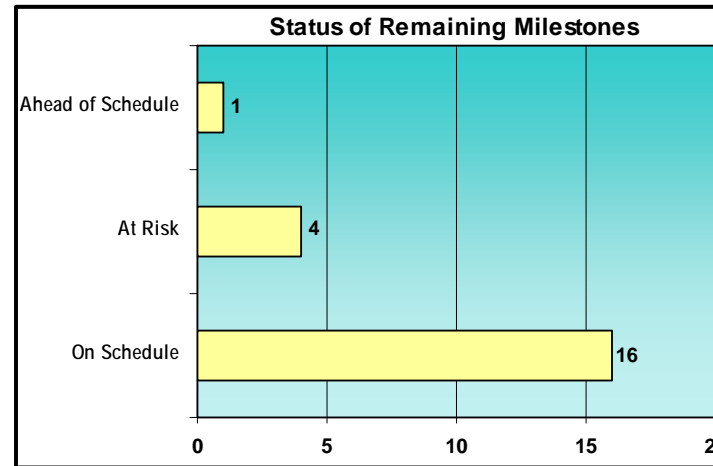
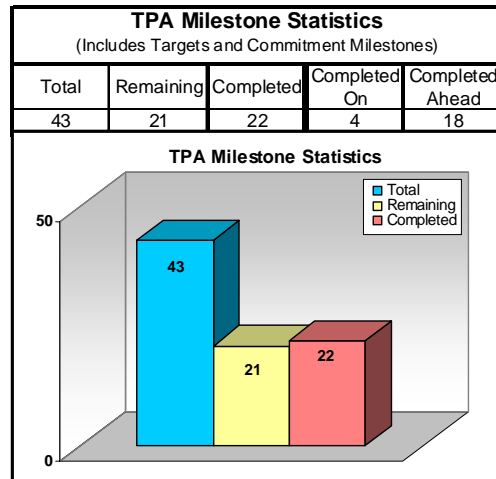
M-93

M-89

M-94

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

Protecting the Columbia River



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.

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.



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

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			
	BCWS	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						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.