

TPA Quarterly Review



River Corridor Milestones:

M-16

M-89

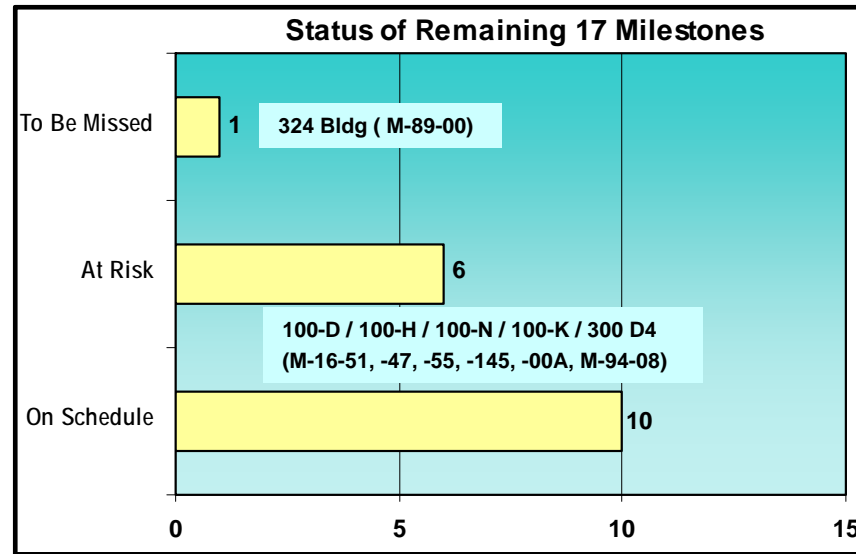
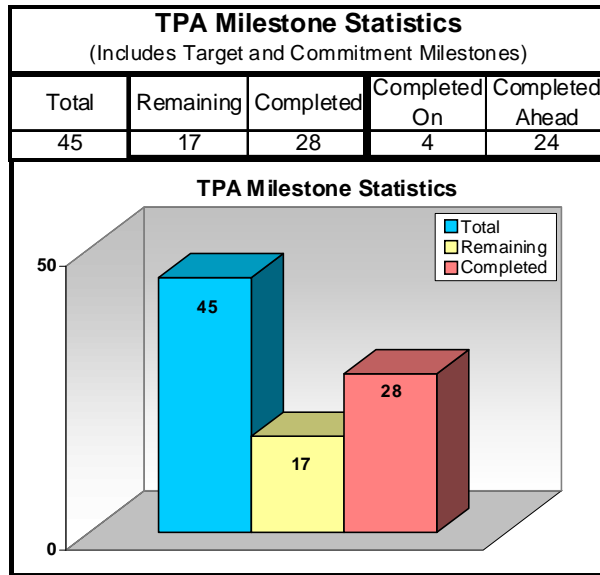
M-92

M-93

M-94

Tri-Party Agreement

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



Quarterly Summary (December 2010)

- **Completed TPA milestones:**
 - No milestones were completed during this reporting period.
- **Approved one change request:**
 - M-94-10-01 approved on 12/15/10 added 340B facility to list of high priority facilities identified in M-94-08 (due 12/31/11) and M-94-09 (due 9/30/13).

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2012 and “at risk”)				
M-16-47	12/31/11	Complete Interim RA for 100-D Area	At risk	Remediation of waste sites will be complete, but approval of closure documents and backfill/revegetation may not complete in time to meet the milestone.
M-16-51	12/31/11	Complete Interim RA for 100-H Area	At risk	Remediation of waste sites will be complete, but approval of closure documents and backfill/revegetation may not complete in time to meet the 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	Waste site cleanup and facility demolition are being coordinated to optimize 100-N remediation. An integrated and aggressive schedule is being implemented to meet TPA milestone requirements.
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.
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.

TPA MS No.	Compliance Date	Title	Status	Comments
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	To Be Missed	Soil contamination encountered under 324 B-Cell. This is a differing condition and will result in cost and schedule impacts. Change package will be submitted when sufficient information is available.
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 impacts from beryllium program changes and unexpected contamination encountered under 324.

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Started 100-C-7 project startup review process.
- Completed 132-H-3 excavation; continued loadout.
- Began site preparation for 118-K-1 Trench I silos.
- Continued unexploded ordnance sweeps at 600-149:1.
- Continued 6-month bioremediation operational testing at 100-N Area.
- Issued 400 Area Orphan Sites Evaluation Report.
- Received approval of 6 waste site closure documents during this reporting period.
- American Recovery and Reinvestment Act (ARRA) – Continued 100-F Area remediation (19 waste sites).
- ARRA – Completed all Segment 1 and Segment 2 field work.
- ARRA – Completed final confirmatory sampling field activities for all sites.
- ARRA – Issued 618-11 non-intrusive characterization (NIC) proposal to subcontractor.

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

- Continued hazardous waste removal and deactivation activities.
- Completed shipping remaining B-Cell waste to Central Waste Complex.
- Completed initial characterization under the failed B-Cell sump liner and established waste site 300-296 based on radioactive contaminated soil found.

M-93 – Reactors Final Disposition:

- Continued installation of 109N safe storage enclosure (SSE) roof panels.
- Began demolition of 105N Fuel Storage Basin transfer bay; continued SSE design.

M-94 – 300 Area Surplus Facilities Disposition:

- Continued 308 glovebox shipments to Perma-Fix..
- Initiated demolition preparations for removal of the 309 reactor dome.



Completed 132-H-3 Excavation



Roof Installation Nearing Completion on 109N ISS

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

ERDF:

- For period of December 2010, disposed nearly 105,000 tons of waste in ERDF.
- ARRA – Completed placement of operations layer in Super Cells 9/10.
- ARRA – Performed Super Cell 9 acceptance testing procedure.
- ARRA – Started installation of septic system.
- ARRA – Started structural steel for equipment maintenance facility.



Installing Container Maintenance Facility Roof

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.
- Begin closure process for 314 and related sites (300 Area).
- ARRA – Initiate Draft A review of 100-D, -K, -IU-2/6 closure documents.
- ARRA – Commence mobilization for 618-10 remediation.
- Complete Ecology comment resolution on Draft B 100-N Work Plan addendum; issue Rev. 0.

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

- Complete characterization under B-Cell and start mitigation planning for the new waste site, 300-296.
- Continue hazardous waste and asbestos removal.

M-93 – Reactors Final Disposition:

- Begin 105N Fuel Storage Basin 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 Cell 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 operations center..

PERFORMANCE SUMMARY (includes ARRA)
Contract Inception (8/25/05) through December 2010
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Nov	Dec	Nov	Dec
D4	667,675	590,612	352,803	390,038	282,307	41,026	37,235	108,936	107,731
Reactor ISS	120,767	131,958	84,200	62,208	59,360	-21,230	-21,992	3,452	2,848
Field Remediation	639,301	646,369	372,009	376,536	326,853	4,362	4,527	46,452	49,683
Waste Operations	427,994	381,667	242,267	310,884	261,102	68,722	68,617	46,756	49,782
ESFC	64,839	65,339	46,901	47,676	41,492	54	775	6,316	6,184
Mission/General Support	328,164	417,823	212,525	212,525	208,310	0	0	3,752	4,215
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency	111,185	111,185							
TARGET COST TOTAL	2,363,904	2,348,700	1,314,684	1,403,846	1,183,171	92,935	89,162	215,897	220,674

Schedule Variance (PMB): \$89,162K

- 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 and 100-D closeouts.
- 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): \$220,674K

- 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 December 2010
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Nov	Dec	Nov	Dec
RL0041.R1.2 - Cell 9 / ERDF	51,361	44,218	43,766	47,941	40,997	4,805	4,175	6,891	6,944
RL0041.R1.3 - Acc Rem / ERDF	55,571	39,220	34,320	36,296	23,322	-486	1,976	8,264	12,974
RL0041.R1.4 - Cell 10	37,672	27,376	17,655	34,836	24,150	17,977	17,182	10,248	10,687
RL0041.R2 - 618-10	65,977	63,752	30,153	32,710	32,868	1,806	2,558	-1,331	-157
Contingency	8,990	8,990							
TARGET COST TOTAL	219,571	183,557	125,894	151,784	121,337	24,101	25,890	24,072	30,448

Schedule Variance (PMB): \$25,890K

- 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): \$30,448K

- 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 design costs were higher than planned due to data quality objective and sampling and analysis plan changes being more extensive than original plan, as well as the material-at-risk calculations requiring more support. 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. These negatives are offset by well installation final costs less than planned and favorable rates on infrastructure contract.

RCC Issues

- Determining impact of radiological contamination encountered under the 324 facility. This will affect schedule for demolition of the 324 Complex.
- Obtain agreement on TPA change package to delay remediation of 100-D-31:11/12 pipeline segments adjacent to 183-D Facility.