

River Corridor/FFTF Tri-Party Agreement Milestone Review
Meeting Minutes
March 22, 2005

0065704

Approval: *Michael A. Wilson*
Michael A. Wilson (H0-57)
Ecology IAMIT Representative

Date: 6/28/05

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Matthew S. McCannick (A5-11)
RL IAMIT Representative

Date: 6/30/05

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Jim E. Rasmussen (H6-60)
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Date: 6/30/05

Approval: *Nick Ceto*
Nick Ceto, Chairperson (B1-46)
EPA IAMIT Representative

Date: 6/28/05

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Minutes Prepared by:

Approval: *Eileen Murphy-Fitch*
Eileen Murphy-Fitch (A4-25)
Fluor Hanford, Inc.

Date: 6/28/05

Almquist, R. S.	RL	A3-04	Harris, S.	CTUIR	
Aromi, E. S.	CHG	H6-63	Hebdon, J. B.	RL	A5-58
Bartus, D.	EPA	H0-57	Hedges, J.	Ecology	H0-57
Bazzell, K. D.	RL	A3-04	Henry, G.	ODE	
Bond, R.	Ecology	H0-57	Hertzel, J. S.	FH	A4-25
Bohnee, G.	NPT		Jackson, D. E.	RL	A4-52
Brown, M.	Ecology	H0-57	Jackson, G. W.	FH	H5-20
Buxbaum, M.	FH	B3-53	Jim, R.	Yakama	
Ceto, N.	EPA	B1-46	LaRue, D. N.	BHI	H0-20
Chapin, D.	RL	A3-04	Langstaff, D.	RL	A4-70
Cimon, S.	ODE		Logan, T. E.	BHI	H9-04
Clark, C. E.	RL	A5-15	Morrison, R. D.	FH	A4-25*
Cusack, L.	Ecology	H0-57*	Murphy-Fitch, E. J.	RL	A4-25*
Dagan, E. B.	RL	A5-15	Niles, K. S.	Oregon	
Dusek, L.	FH	R3-62	Olinger, S.	ORP	H6-60
Einan, D.	EPA	B1-46	Piippo, R. E.	FH	A4-25
Erickson, L.	RL		Price, J.	Ecology	A5-15*
Fox, M.	BHI	H0-11	Rasmussen, D.	FH	L1-02
Farabee, A.	RL	A3-20	Schepens, R. J.	RL	H6-60
Faulk, D.	EPA	B1-46	Skinnarland, E. R.	Ecology	H0-57
Fogwell, T. W.	FH	E6-35	Voice, J.	RL	A7-27
Fritz, L.	FH	H8-12	Walsh, J. L.	BHI	H0-20
Gadbois, L.	EPA	B1-46	Wilson, M. A.	Ecology	H0-57
Gallagher, R. G.	FH	H5-20	Wolf, A.	CTUIR	
Goodenough, J.	RL	A3-04	Administrative Record	EDMC	H6-08*
Guercia, R. F.	RL	A3-04	*w/Attachments		

River Corridor/FFTF Tri-Party Agreement Milestone Review
Meeting minutes
March 22, 2005

Complete Remedial Actions (River Corridor Project portion of M-016/M-093)

Start: 10:00 a.m.

End: 10:18 a.m.

River Corridor Project continues to accomplish Tri-Party Agreement work ahead of schedule. Significant accomplishments include:

- Completed nine CVPs/RSVPs to date; two were planned
- Completed backfill and revegetation of 116-N-3 Crib, trench and pipelines
- Issued 100-F Area Burial Grounds and Remaining Sites RFP
- Completed backfill of 116-K-1 Crib four months early
- Initiated closeout sampling associated with the 100-KW pipelines and completed 116-KE-4 retention basin sampling.
- Mobilized the 188-K-1 Burial ground remediation subcontract
- Completed supplemental risk assessment work for river pipelines EE/CA.
- Developed Orphan Sites plan and strategy; discussions continue with the regulators.

Waste shipments from K Basins were suspended due to questions raised about methodology of fuel characterization; discussions continue.

The removal of the SNF pieces found at 118-B-1 and 118-C-1 Burial Grounds is behind schedule due to Authorization Basis issues and resource challenges. The 100-B/C Remedial Action Project is addressing resource issues and schedule recovery.

A safe was encountered during the excavation of the 618-2 Burial Ground that contained a very pure form of Pu-239 on the interior surfaces and possibly in various liquids contained in the safe. The safe appears to be legacy waste from research performed in the 1940s. A metal beaker containing plutonium residue (with high Pu/Am concentration) was also uncovered in the stockpiles of waste from the 618-2 excavation. Review/revision of work forms, work processes and procedures is in process. The stockpile areas and exclusion were stabilized with fixative several times. Additional air monitors were placed around the stockpile area, safe exclusion zone, and 618-2 excavation. Air monitoring has not shown any elevated readings which indicate the contamination remains fixed. Surveys will be performed of the stockpile areas and the safe (and contents) to identify extent of contamination and form the basis of inventory estimates required for nuclear safety reauthorization of work. Once reauthorization is received, a path forward for remediation workscope will be developed.

Funding for FY 2006 is at the minimal level and workscope will be completed in the near-term. Outyear funding may impact the scheduled workscope.

Action: Provide EPA with the data from the investigation of the waste shipments from K Basins to ERDF

Actionee: Owen Robertson

FFTF Transition (Tri-Party Agreement Milestone M-081)

Start: 10:18 a.m.

End: 10:27 a.m.

Significant progress continues to be made in the key deactivation areas of fuel offload and sodium drain. The Project is on track to complete the milestones on or ahead of schedule. Ecology and EPA asked if RL would respond to their January 2005 letter on possibility of shifting funding from FFTF to a higher priority workscope.

324 Building Closure of Mixed Waste (MW) Units (Tri-Party Agreement Milestone M-089)

Start: 10:34 a.m.

End: 10:36 a.m.

The 324 Facility continued to be maintained in a minimum safe operation mode, in compliance with regulatory requirements and the Documented Safety Analysis, Basis for Interim Operations and Technical Safety Requirements. Integration and finalization of Revision 2 of the Closure Plan was completed. Closure of the mixed waste units in the 324 Building radiochemical engineering cells will be completed in parallel with disposition of the 324 Building by September 30, 2010.

Facilities for Cs/Sr, Sodium and SCW (River Corridor Project portion of Tri-Party Agreement Milestone M-092)

Start: 10:27 a.m.

End: 10:34 a.m.

Progress continues to be made on the M-092 Interim Milestones and Target Dates. Uranium material shipping activities and preparation for 327 Building SCW disposition continued.

Disposition of the 300 Area Surplus Facilities (Tri-Party Agreement Milestone M-094)

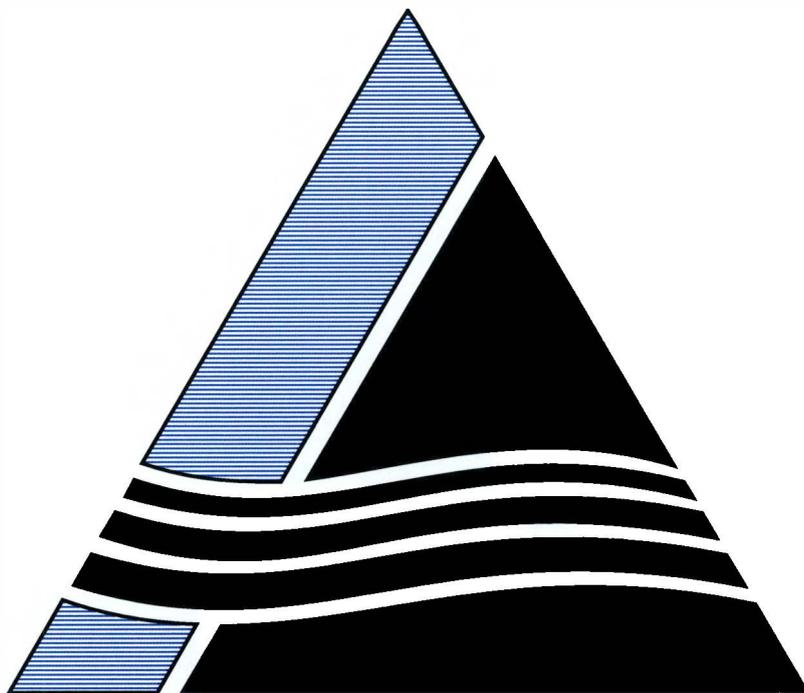
Start: 10:36 a.m.

End: 10:41 a.m.

The M-094 series milestones address the disposition of the 300 Area Surplus Facilities and will be part of the River Corridor contract. Activities associated with the demolition of the 313 and 314 Facilities continued. Twelve non-radiological facilities have been D&D during the past six months. Procurement activities continued on the River Corridor Closure Contract.

Richland Environmental Restoration Project

TPA Quarterly Review



Tri-Party Agreement

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

March 22, 2005

E0503020tpa

ENVIRONMENTAL RESTORATION PROJECT

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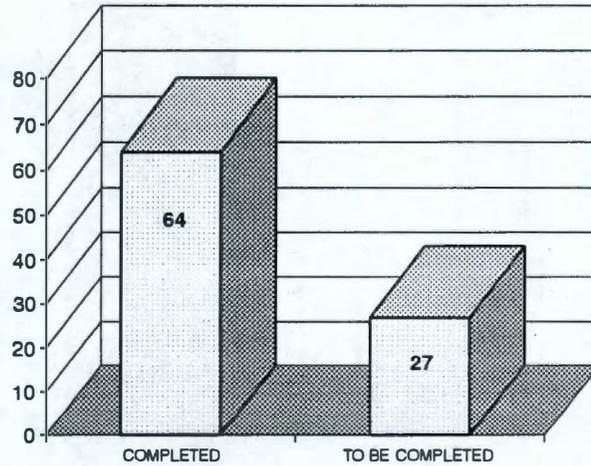
RIVER CORRIDOR

- River Corridor Milestone Statistics
- River Corridor FY05 Milestone Status
- River Corridor Milestone Schedule
- River Corridor Change Requests
- River Corridor Project Status / Accomplishments
- River Corridor Issues
- River Corridor FY05 Performance Summary

INTEGRATION ISSUES

ENVIRONMENTAL RESTORATION PROJECT

ERC River Corridor TPA Milestone Statistics (Major & Interim Milestones)



	Compliance Due Date	To Be Completed as of 02/28/2005	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-16 Remedial Design / Remedial Action	9/30/2018 (M-16-00B)	18	M-16-48	07/31/05	M-16-52	07/31/09
			M-16-46	07/31/06	M-16-51	12/31/10
			M-16-45	12/31/06	M-16-47	12/31/11
			M-16-60	12/31/2006	M-16-53	12/31/12
			M-16-50	07/31/07	M-16-55	12/31/12
			M-16-54	07/31/08	M-16-62	12/31/12
			M-16-49	12/31/08	M-16-00A	12/31/12
			M-16-56	12/31/2008	M-16-69	09/30/15
			M-16-61	12/31/2008	M-16-00B	09/30/18
			M-93 Reactors on River Final Disposition	TBD (M-93-00)	7	M-93-25
M-93-18	12/31/2005	M-93-22				09/30/11
M-93-23	07/31/06	M-93-20				09/30/12
M-93-24 (C)	09/30/06	M-93-00				TBD
M-94 300 Area Surplus Facilities Demolition	9/30/2010 (M-94-03)	2	M-94-05	09/30/06		
			M-94-03	09/30/10		
MILESTONES TO BE COMPLETED		27	1 --- MILESTONE COMPLETED IN FY05 (C)			

Milestones Removed from Above Table

M-16-00 Remedial Action	2	M-16-63	12/31/05	Not in ERC contract scope.
		M-16-64	09/30/10	Not in ERC contract scope.

ENVIRONMENTAL RESTORATION PROJECT

**ERC RIVER CORRIDOR
FY 2005 TPA MILESTONE SUMMARY
(Major & Interim Milestones)**

Status as of: February 28, 2005

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
0041	M-93-24	Submit EE/CA for N Reactor ISS	09/30/2005	10/14/04 (A)	X						
0041	M-16-48	Initiate Remedial Actions for Remaining Waste Sites for 100 F Area	07/31/2005					X			
0041	M-93-25	Submit an Engineering Evaluation of the Final Surplus Reactor Disposition to EPA and Ecology	09/30/2005	03/28/2005 (F)			X				
Total FY 2005 ERC River Corridor TPA Milestones			3		1	0	1	1	0	0	0
FY 2005 TPA Commitments											
PBS	Commitment	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
0041	C-16-06A	Submit B/C Risk Assessment Pilot Study to EPA and Ecology	07/31/2005					X			
0041	C-16-06B	Submit an Engineering Evaluation of the Final Disposition of River Pipelines and Outfall Structures to EPA and Ecology	07/31/2005					X			
Total FY 2005 ERC River Corridor TPA Commitments			2		0	0	0	2	0	0	0

NOTE: Italics = Outyear milestone

**ERC RIVER CORRIDOR
FY 2006 TPA MILESTONE SUMMARY
(Major & Interim Milestones)**

Status as of: February 28, 2005

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
0041	M-93-18	Complete 105-H Reactor Interim Safe Storage	12/31/2005	09/30/2005 (F)			X				
0041	M-16-46	Initiate Remedial Actions for Remaining Waste Sites for 100 D Area	07/31/2006					X			
0041	M-93-23	Submit EE/CA for KE/KW Reactor ISS	07/31/2006					X			
0041	M-94-05	Complete Deactivation, Decontamination, Decommissioning, and Demolition of 313 and 314 Facilities	09/30/2006					X			
0041	M-16-63*	Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for 300-FF-2 Waste Sites and Confirmatory Sampling of 300-FF-2 Candidate Sites	12/31/2005								
Total FY 2006 ERC River Corridor TPA Milestones			4		0	0	1	3	0	0	0

* M-16-63 scope is not in ERC contract; it will be included within the new River Corridor contract.

Richland Environmental Restoration Project

TPA MILESTONE SUMMARY SCHEDULE -- RIVER CORRIDOR

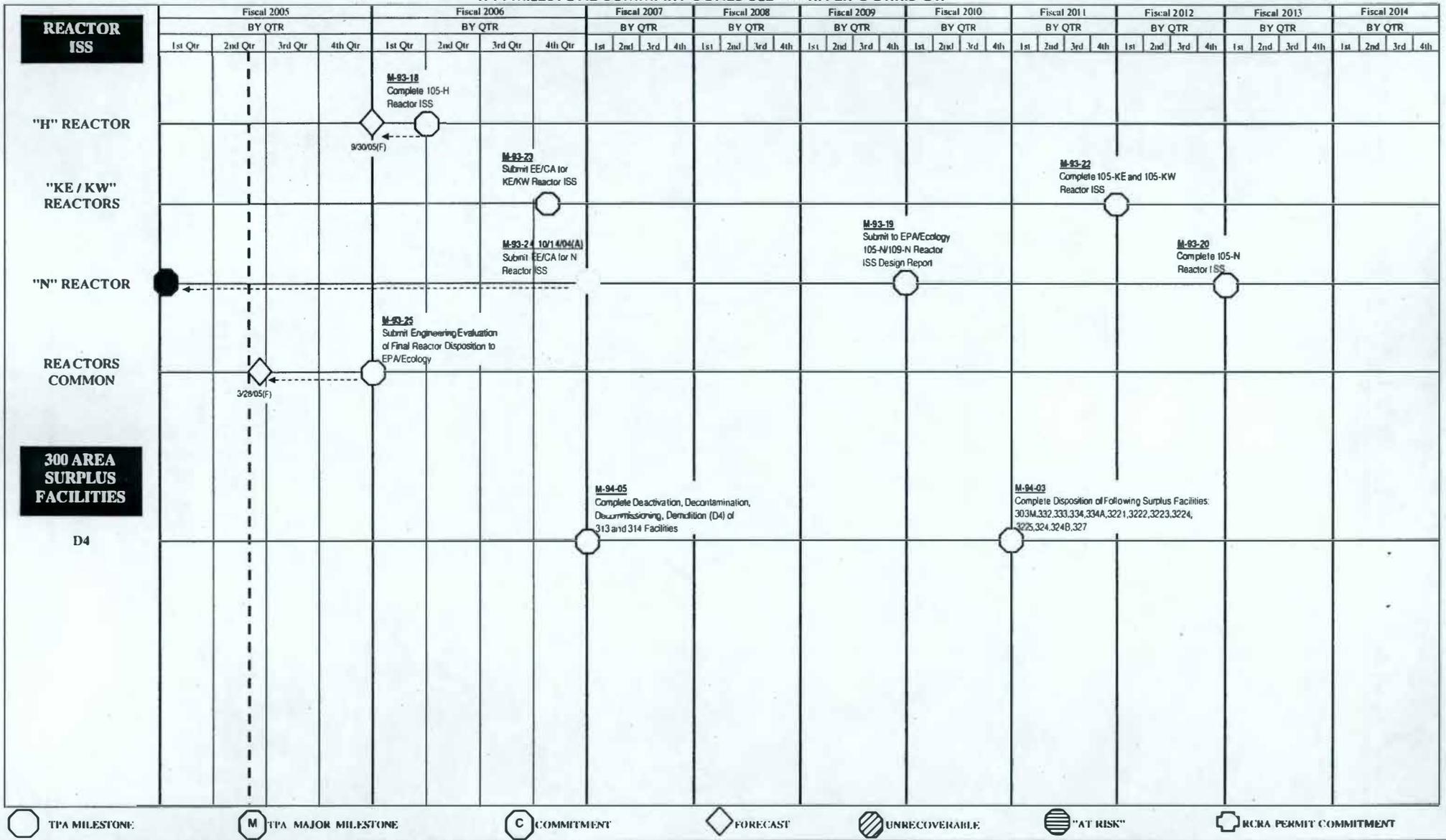
100 AREA REMEDIAL ACTION	Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013				Fiscal 2014							
	BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR							
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st	2nd	3rd	4th																																
100-B/C AREA																																												
100-D AREA																																												
100-F AREA																																												
100-H AREA																																												
100-K AREA																																												
100-N AREA																																												
100-IU-2 / 100-IU-6																																												
100 COMMON																																												

TPA MILESTONE
 TPA MAJOR MILESTONE
 COMMITMENT
 FORECAST
 UNRECOVERABLE
 "AT RISK"
 RCRA PERMIT COMMITMENT

C-16-06C (TBD) - Submit Schedule and Establish Commitments to Complete RI/FS and Proposed Plans in Support of the Final ROD for 100 Area (Commitment)

Richland Environmental Restoration Project

TPA MILESTONE SUMMARY SCHEDULE -- RIVER CORRIDOR



M-93-00 (TBD) - Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings
M-94-01 - 12/31/2005 - Submit Schedule and TPA Milestones to Complete Disposition of Surplus Facilities in 300 Area (not in ERC scope)
M-94-00 - 09/30/2015 - Complete Disposition of 300 Area Surplus Facilities to be Defined as the 220 Facilities Listed in Hanford River Corridor Closure Contract RFP (not in ERC scope)

ERC RIVER CORRIDOR TPA CHANGE REQUESTS (December 2004 - February 2005)

There were no ERC River Corridor change requests approved during December 2004 - February 2005.

ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

Remedial Action (M-16-48, M-16-52, M-16-60)

- Through February, nine CVPs/RSVPs have been completed during this fiscal year (two were planned).
- In December 2004, a safety evaluation report was received from RL that allowed transportation and disposal operations to resume for 67 ERDF containers. These containers had previously been suspended from any further disposal activity due to encountering suspect fuel pieces in 118-B-1 and 118-C-1 Burial Grounds. An Audible Safety Analysis and Final Hazard Classification for these two burial grounds are being prepared.



Sampling RPAS Exposed Old Irrigation Pipe

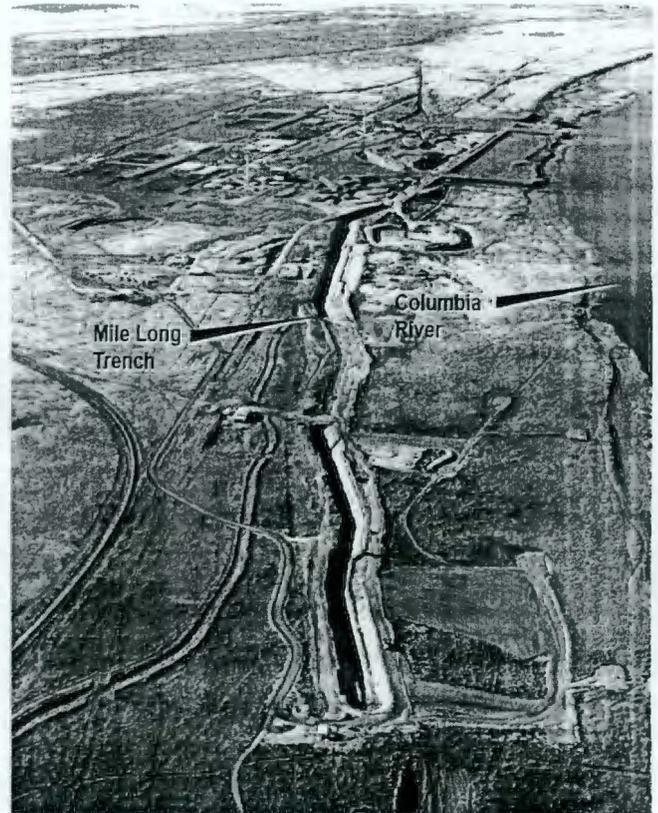
- Continued remediation activities at several 100-B/C Remaining Pipelines and Sewers (RPAS) waste sites.
- Continued excavation of the 116-N-1 Crib.



116-N-3 Crib Revegetated / Planting Sagebrush

- Completed backfill and revegetation of 116-N-3 Crib, Trench, and pipelines; hauled and placed 226,000 cubic yards of fill material and constructed ten Mooli-Mooli mounds.
- Completed seeding and sagebrush planting at 100-F Area.
- Issued 100-F Area Burial Grounds and Remaining Sites RFP on February 4.

- Completed backfill of 116-K-1 Crib in January, over four months ahead of schedule.
- Continued remediation of the 100-K effluent pipelines and 116-K-2 Mile Long Trench.



116-K-2 Mile Long Trench Remediation

- Initiated closeout sampling associated with the 100-KW pipelines and completed 116-KE-4 Retention Basin sampling. Approximately 1,000 samples were taken.
- Awarded 118-K-1 Burial Ground remediation subcontract in January. Initiated mobilization activities in February.
- Completed supplemental risk assessment work for river pipelines EE/CA. RL and regulators have agreed to an alternate path forward to document river pipeline decision; an Explanation of Significant Difference will be prepared.
- Completed sampling of the 116-C-3 Chemical Tanks. Reviewed data and initiated preparation of path forward BCP.
- Completed sampling of 100-F Area Remaining Sites.
- Completed 100-H Area geophysics data collection and evaluation activities.
- Completed sampling at 600-202 and 600-205 waste sites, the last two 100-IU operable unit confirmatory sites that required sampling.
- Completed loadout of waste at the 300-18 Surface Contamination site.
- Completed loadout of design quantities for the 600-47 Surface Contamination site.

ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

- Continued loadout of waste to ERDF from 618-3 Burial Ground until December 14, at which time all 300 Area burial ground sites were shut down to review Authorization Basis issues.



Safe Encountered in 618-2 Burial Ground

- Continued to establish plans for a path forward to start up excavation at 618-2, -3, and -8 Burial Grounds since the plutonium (alpha) contamination was found at the 618-2 Burial Ground.
- Completed walkdown checklist, walkdown, and related documentation for 28 recently transitioned 300 Area waste sites.

Waste Operations

- Received operation certification of ERDF Cells 5/6 in December.



Completion of ERDF Cells 5/6 Expansion

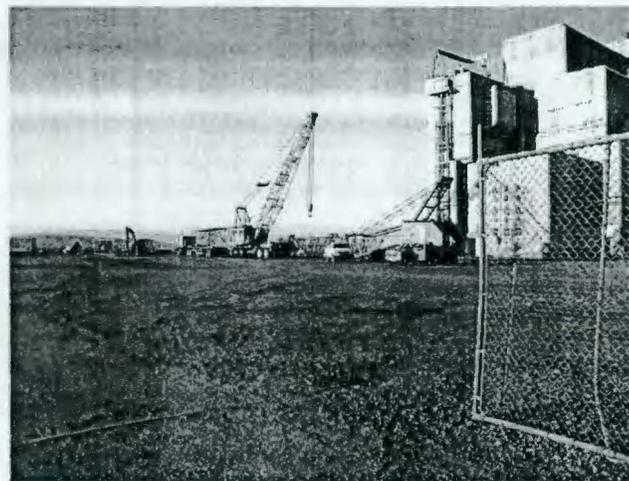
- Continued transporting waste from 100-B/C Area to ERDF Cell 6 using dump trucks with trailers.

- Received 22 (out of 30 total) new IP-2 roll-off containers and 64 (out of 80 total) new IP-1 containers at ERDF. Received six leased trucks to supplement waste transport fleet.
- Preparing to initiate swing shift disposal operations at ERDF.
- Completed all preparatory work for construction of the 218-W-4C waste encapsulation vaults. Submitted Management of Change documentation for this new waste stream to RL for approval.
- Continued to suspend all waste shipments from K-Basins SNF Project due to questions raised about methodology of fuel characterization.
- Issued advance 30-day public notice to seek comments on the "Proposed Plan for an Amendment to the ERDF Record of Decision". Also presented the proposed plan to the Hanford Advisory Board River and Plateau Committee.
- Through February, ERDF has received ~11,000 drums of 183-H Solar Basin waste (out of a total of ~12,300 drums) for disposal.
- Through February, nearly 359,000 tons of contaminated material have been disposed in ERDF this FY. More than 5.4 million tons of waste have been disposed in ERDF since operations began in July 1996.

Facilities Decommissioning (M-93-18, M-93-25)

Reactor ISS:

- Completed backfill of remaining areas around H Reactor.
- Completed H Reactor safe storage enclosure (SSE) roof design drawings. Subcontractor mobilized in February.



Mobilizing at H Reactor SSE Project

ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

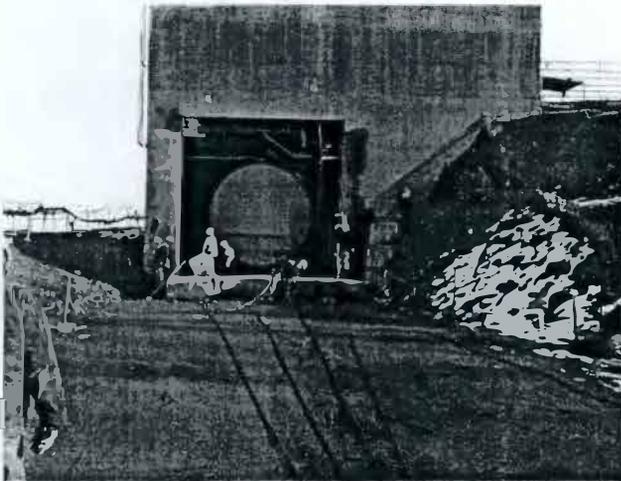
Miscellaneous D&D:

- 190-DR - Completed dewatering basement/sumps, valve house demolition, and preparations for above-grade building demolition.



190-DR Valve House Demolition

- Removed D Area decontamination soil stockpile and completed backfill activities.
- Completed cutting concrete wall for removal of 107-N Tank T-4.



Preparing to Remove 107-N Tank T-4

- Awarded 184-N Power House asbestos removal subcontract.

300 Area:

- Completed 300 Area D&D waste characterization SAP, Rev. 0 (signed by RL/EPA) and the Removal Action Work Plan (RAWP).
- Completed industrial hygiene baseline for all ERC buildings.
- Commenced asbestos removal in 313 Building.

- Commenced perimeter monitoring for beryllium and rad after beryllium was discovered external to 313 Building (on roof).
- Installing beryllium "fixative" paint in 313 Building.
- Commenced characterization of 314 Building.

Risk Assessment/Site Closure (C-16-06A)

100 B/C Pilot:

- Transmitted 100-B/C Pilot Data Summary for 2003 and 2004, Draft B to RL for review and comment.
- Continuing data screening and exposure assessment for B/C Pilot Risk Assessment.

100/300 Area:

- Completed DQO Summary Report (workbook).
- Revising Sampling and Analysis Instructions for Tribal plant sampling after RL, regulators, and Tribe review.
- Preparing SAP for FY06 sampling.
- Completed RL review of three human-use scenarios (Rural Residential, Industrial Worker, and National Monumental Refugee Worker) and submitted to EPA Region 10 for a peer review. RL currently reviewing fourth scenario (Recreational).
- Began river conductivity surveys, but early winter high water levels impeded progress.

Columbia River Component:

- Conducted three Existing Data Compilation and Evaluation Guidance Workshops. Purpose of workshops was to develop, in a public forum, methods that will be used to analyze and validate existing data on Hanford Site contaminant release to the Columbia River.
- Submitted Communication Plan Rev. 0 to RL, regulators, Tribes, Trustees, and HAB.
- Held monthly Hanford Site Risk Assessment Integration Strategy/Schedule meetings. Attendees finalized existing scopes/schedules and provided comments on the *Hanford Site Risk Assessment Integration Strategy* annotated outline. Draft document will be ready for RL and Office of River Protection review on 3/10/05.
- Completed working meetings with data compilation teams (graduate students) from Kauffman Associates, PNNL, OSU, UW, and WSU that discussed production history of Hanford Site and resultant waste streams to provide a context for the existing data compilation/evaluation task (Feb 9-11). Also presented an introductory lecture on how risk assessments are conducted and provided "hands on" instructions for the computer database applications (Feb 23-25).

Closure Activities:

- 300-FF-1 Remedial Action Report is in final stages of review and comment by RL.
- Transmitted final 100-B/C Area Orphan Site's letter report with attachments to RL.
- Provided presentation to Ecology on 100-B/C Orphan Sites process.
- Provided draft report to RL for 600-235 Lead Sheathed Cable site.

ERC RIVER CORRIDOR ISSUES

- **100-B/C Burial Grounds:** Removal of the spent nuclear fuel (SNF) pieces found at 118-B-1 and 118-C-1 Burial Grounds is behind schedule due to Authorization Basis issues and resource challenges. The project submitted the Final Hazard Categorization and Auditable Safety Analysis for the 118-B-1 and 118-C-1 Burial Ground waste sites on March 7. The project anticipates approval per a Safety Evaluation Report (SER) from RL before the end of March. The SNF pieces will then be transported to K-Basin.

Status: The 100-B/C Remedial Action project is addressing resource issues to get back on schedule.

- **300 Area Remedial Action Plutonium:** A safe was encountered during the excavation of the 618-2 Burial Ground that contained a very pure form of Plutonium-239 on the interior surfaces and possibly in various liquids contained in the safe. The safe appears to be legacy waste from research performed in the 1940s. A metal beaker containing plutonium residue (with high Pu/Am concentration) was also uncovered in the stockpiles of waste from the 618-2 excavation. As a result of encountering these unplanned/ unanticipated waste forms, work processes and procedures are being reviewed and revisions will be made to the field operations prior to restart.

Status: The stockpile areas and exclusion area containing the safe (and contents) have been stabilized with fixative several times. Additional air monitors have been positioned around the stockpile area, safe exclusion zone, and 618-2 excavation. The air monitoring has not shown any elevated readings which indicates the contamination remains fixed. Site personnel are preparing egress enclosures required for alpha-contaminated environments. Surveys will be performed of the stockpile areas and the safe (and contents) to identify extent of contamination and form the basis of inventory estimates required for Nuclear Safety re-authorization of work. Once re-authorization is obtained, a path forward for remediation will be developed.

ERC RIVER CORRIDOR PERFORMANCE SUMMARY

RIVER CORRIDOR

FY 2005 ERC PERFORMANCE SUMMARY FYTD FEBRUARY 2005 (\$K)

	FY05 DWP	CURRENT	EAC	FYTD			FYTD SCHEDULE VAR			FYTD COST VAR		
	BCWS	BCWS		BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI
RA	41,713	46,145	41,993	18,273	19,245	15,860	972	5.3%	1.05	3,385	17.6%	1.21
WASTE	27,118	28,423	28,837	11,826	10,463	9,882	-1,363	-11.5%	0.88	581	5.6%	1.06
FDP	19,300	23,695	20,972	6,800	7,887	6,926	1,087	16.0%	1.16	961	12.2%	1.14
RISK	5,606	5,606	4,928	2,070	2,187	1,348	117	5.7%	1.06	839	38.4%	1.62
MISSION	36,649	36,500	32,647	13,947	13,858	12,779	-89	-0.6%	0.99	1,079	7.8%	1.08
GENERAL	15,614	15,673	15,500	6,204	5,835	5,656	-369	-5.9%	0.94	179	3.1%	1.03
ERC TOTAL	146,000	156,042	144,877	59,120	59,475	52,451	355	0.6%	1.01	7,024	11.8%	1.13

Schedule Variance Summary:

Through February, the ER Project is \$0.4M (+0.6%) ahead schedule. The positive schedule variance is attributed to 300 Area facility characterization/deactivation, accelerated excavation/loadout at 100-B/C Remaining Sites, and completed 116-K-1 Crib backfill ahead of schedule; partially offset by delays in ERDF container procurements, additional office space procurement, and waste treatment on hold at 100-B/C.

Cost Variance Summary:

At the end of February, the ER Project had performed \$59.5M worth of work, at a cost of \$52.5M. This results in a favorable cost variance of \$7.0M (+11.8%). The positive cost variance is attributed to efficiencies achieved by truck and pup operations at 100-B/C Remaining Sites; 100-B/C Remaining Pipelines and Sewers (RPAS) and 118-K-1 subcontractor mobilization underruns; fewer resources utilized for accelerated 300 Area facility characterization than planned; FY04 final fee determination less than anticipated, and reduced estimate of retiree medical costs.

INTEGRATION ISSUES

This section of the quarterly review discusses Central Plateau milestones and workscope that potentially affect River Corridor milestones.

There are currently no identified Central Plateau workscope items that would delay the River Corridor milestones or workscope.

**U.S. Department of Energy
Richland Operations Office
Fast Flux Test Facility (FFTF) Deactivation**

**Tri-Party Agreement (TPA)
M-81-00 Series Milestones**

3/22/05 River Corridor TPA Milestones Review Meeting
Washington State Department of Ecology
U.S. Environmental Protection Agency

DOE-RL FFTF Division – Al Farabee
Washington State Department of Ecology – Laura Cusack
U.S. Environmental Protection Agency – Nicholas Ceto

**3/22/05 Status of FFTF Deactivation
TPA M-81-00 Milestones**

Milestone	Milestone Description	Due Date	Status
M-81-00A	Complete FFTF Facility Transition and Initiate the Surveillance and Maintenance Phase	2/28/11	On Schedule
M-81-00-T01	Complete Reactor Defueling	9/30/95	Completed 4/19/95
M-81-00A-T02	Complete Transfer of Unirradiated Fuel to Secure Onsite Storage	3/31/09	Completed 11/3/03
M-81-00A-T03	Complete Transfer of Irradiated Fuel to Secure Onsite Storage	3/31/09	On Schedule
M-81-00A-T04	Complete Transfer of Special Fuel to DOE's Idaho National Engineering Laboratory for Consolidated Storage	3/31/09	On Schedule
M-81-00A-T05	Complete Auxiliary Plant Systems Shutdown	2/28/11	On Schedule
M-81-01	Initiate Sodium Storage Facility Construction	2/28/97	Completed 10/9/95
M-81-02	Complete Sodium Storage Facility Startup	7/31/98	Completed 1/17/97

**3/22/05 Status of FFTF Deactivation
TPA M-81-00 Milestones and
Related M-20-29B Milestone
(Continued)**

Milestone	Milestone Description	Due Date	Status
M-81-10-T01	Submit Final Sodium Disposition Report	9/30/05	On Schedule
M-81-11	Submit FFTF End Point Criteria Document	8/31/05	On Schedule
M-81-12	Initiate FFTF Sodium Drain	6/30/03	Completed 4/7/03
M-81-13	Complete Reactor and Heat Transport System Sodium Drain	6/30/05	On Schedule
M-81-14-T01	Complete Fuel Storage Facility Sodium Drain	4/30/07	On Schedule
M-81-14-T02	Initiate Interim Decay Storage Vessel Sodium Drain	6/30/08	On Schedule
M-81-14	Complete FFTF Sodium Drain	9/30/09	On Schedule
M-81-15	Submit FFTF Surveillance and Maintenance Plan	6/30/10	On Schedule
M-20-29B	Submit Sodium Storage Facility and Sodium Reaction Facility Closure Plan or Request for Procedural Closure to Ecology as Defined in Agreement Section 6.3.3	8/30/03	Completed 6/12/03

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Significant Accomplishments

(3/22/05)

**M-81-00A-T03, Complete Transfer of Irradiated Fuel
(Due: 3/31/09)**

- Completed wash and transfer of 63 assemblies (9 Interim Storage Casks) this fiscal year
- Completed wash and transfer of 273 MOX Spent Fuel Assemblies to-date
- 61 MOX Spent Fuel Assemblies remain to be completed

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Significant Accomplishments

(3/22/05, Continued)

- **M-81-00A-T04, Complete Transfer of Special Fuel to INEEL (Due 3/31/09)**
 - T-3 SARP has been submitted to HQ for final approval. LLNL currently reviewing document.
 - There are 9 sodium bonded fuel assemblies associated with this M/S to be completed

- **M-81-11, Submit FFTF End Point Criteria Document (Due 8/31/05)**
 - Draft of the document was submitted to RL for review. FH incorporating RL comments.

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Significant Accomplishments

(3/22/05, Continued)

- **M-81-13, Complete Reactor and Heat Transport System Sodium Drain (Due: 6/30/05)**
 - Preparations for draining the reactor vessel continue.
 - Fabrication of the drilling drive shaft extensions and the bearing carrier seal plug
 - Installation of the remainder of the reactor vessel drain line
 - Fabrication of drilling equipment support structure over the Closed Loop cell
 - ~90,000 gallons of primary sodium has been drained to date
 - ~50,000 gallons of primary sodium remain to be drained

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Significant Planned Actions (Next Six Months)

- **Fuel Offload**
 - Load and transfer new Interim Storage Casks (ISC's) as they become available
 - Prepare for pin processing of test fuel assemblies (PO-4, SRF-3, SRF-4 and ACN-1) in the IEM Cell
 - Begin receipt of final 13 Interim Storage Casks

- **Sodium Drain**
 - Complete draining of the reactor vessel
 - Complete design/installation of equipment required to drain sodium from the Fuel Storage Facility (FSF)
 - Place contract for cleaning residual NaK from the FSF cooling system

7

Significant Planned Actions (Next Six Months)

- **Auxiliary Systems Shutdown**
 - Deactivate and remove class 1E 125 VDC batteries
 - Drain primary and secondary Heat Transport System liquid rheostats
 - Drain remainder of mobiltherm system
 - Deactivate Inert Gas Cooling
 - Deactivate Na Leak Detection
 - Drain Primary Lube Oil Skids
 - Remove CRDM Control Cabinets' PCB Capacitors

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Project Issues/Summary

- Issue:
 - Working with Ecology on M-81-10-T01 & M-92-10 “Submit Final Sodium Disposition Report”. This report precedes the FFTF Closure Project EIS and ROD, and the new FFTF Closure Project contract. Do not want to pre-judge the outcome of the ROD and new contractors approach.
- Summary:
 - Significant progress continues to be made in the key deactivation areas of fuel offload and sodium drain
 - The project is currently on track to meet milestones; exception may be with M-81-10-T01 and M-92-10.

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Schedule / Cost Performance Fiscal Year to Date Status (\$000s)

(Status through February 2005 month end)

<u>Description</u>	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
FFTF	19,337	16,581	15,957	(2,757)	624	44,154

Schedule Variance Analysis (-\$3.8M):

The unfavorable schedule progress is due to early budgeting of the total ISC procurement contract (\$3.9M); the contract is in place, but progress will occur over the balance of the fiscal year.

Cost Variance Analysis (\$0.5M):

The favorable cost variance is due to conducting planned activities with less staff than budgeted.

Tri-Party Agreement Milestone
M-89-00



324 Building
Closure of Mixed Waste Units

March 22, 2005
Tri-Party Agreement
Quarterly Milestone Review

Ecology Program Manager – FW Bond
DOE-RL Program Manager – KD Bazzell
FH Environmental Sponsor – DE Rasmussen



Active Milestone Overview

Milestone	Description	Date	Status
M-89-00	Complete closure of non-permitted mixed waste units in the 324 Building REC B-Cell, REC D-Cell and the high-level vault	10/31/05	Change M-89-04-01 In Progress



Program Manager's Assessment

Since Last Quarterly Review

Environmental – Good

- Activities related to completion of the M-89-00 milestone have been conducted in compliance with environmental regulations. No adverse impacts to the environment have occurred.

Safety – Good

- Activities related to the M-89-00 milestone continued to be conducted safely.

Cost - Good

- Facility activities are within budget.

Schedule – Good

- The 324 Facility continued to be maintained in minimum safe operation mode consistent with facility safety basis and regulatory requirements.

Significant Accomplishments

Since Last Quarterly Review

M-89-00

- Integration and finalization of Revision 2 of the closure plan was completed in cooperation with RL and Ecology. Formal transmittal to RL and Ecology is in progress. The revised closure plan reflects the effect of Tri-Party Agreement Milestone M-094-03, which requires complete disposition (including demolition) of the 324 Building by 9/30/2010. Closure of the mixed waste units in the 324 Building Radiochemical Engineering Cells (REC) for Milestone M-89-00 will be achieved in parallel with M-094-03.
- Procurement activities were completed for the 324 Building REC Liquid Waste Handling System (LWHS). Shipping requirements were established, and shipping and receiving activities were completed.



Significant Planned Actions

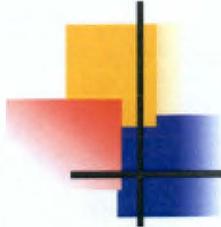
Next Six Months

M-89-00

- Complete transmittal activities for Revision 2 of the closure plan, and obtain Ecology approval.
- Resume processing and approval of TPA Change Control Form M-89-04-01. Change M-89-04-01 will change the M-89-00 date from 10/31/2005 to 9/30/2010 to align with M-094-03.

Project Summary

- The 324 Facility will continue to maintain minimum safe operations mode consistent with facility safety basis and regulatory requirements.
- Until the new River Corridor Contract is in place and transition activities are completed, no significant 324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas mixed waste units closure activities are planned.



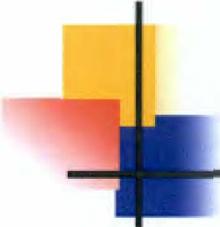
Facilities for Cesium/Strontium, Sodium, Un-irradiated Uranium, and Special Case Waste

Tri-Party Agreement M-92-00 Series Milestones



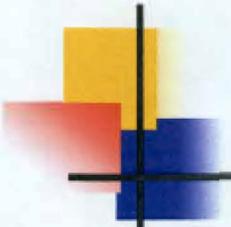
M-92-00 Interim Milestones Overview

Milestone	Description	Target Date	Status
M-92-00	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal of Hanford Site cesium and strontium capsules (Cs/Sr), bulk sodium (Na) and sodium-potassium alloy (NaK), and 300 Area Special Case Waste (SCW).	TBD	TBD
M-92-01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for sitewide consolidation and storage prior to commercial use or treatment and/or repackaging by DOE-TWRS.	12/31/2009	Completed 2/08/2005
M-92-05	DOE will assess the viability of directly disposing of Hanford Site Cs/Sr capsules at the National High-Level Waste Repository.	6/30/2007	CP/WM Quarterly
MX-92-06-T01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal/disposition of all Hanford Site U. Complete the disposal/disposition of ~5 metric tons of UO ₂ source materials located in the 300 Area Fuels Supply Shutdown Facilities and source material located in 325 and 2718-E and complete the disposition of ~235 metric tons of uranium billets located in the 300 Area.	12/31/2001	Complete
MX-92-06-T02	Complete the disposal/disposition of ~135 metric tons of un-irradiated contaminated fuel located in the 300 Area and 5 metric tons of misc U source material located in all 300 and 200 Area Fuel Supply Shutdown (FSS) Facilities, and complete the disposal/disposition of ~825 metric tons of un-irradiated fuel source materials located in the 300 Area FSS Facilities.	9/30/2006	Ahead of Schedule
M-92-09	Establish milestones and/or target dates if needed for acquisition of new facilities, modifications of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of Hanford Site sodium.	7/30/2009	On Schedule
M-92-10	Submit Hanford Site Sodium Disposition Evaluation Report to Ecology.	9/30/2005	Change Request



M-92-00 Interim Milestones Overview (cont'd)

Milestone	Description	Target Date	Status
MX-92-11-T01	Complete disposition options for all Hanford non-radioactive sodium.	9/30/2004	Complete
M-92-12	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for consolidated storage, prior to disposal of Hanford Site 300 Area SCW and materials.	9/30/2006	On schedule
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	9/30/2000	Complete
M-92-14	Complete removal and transfer, and initiate storage of Phase I 300 Area SCW and materials. Phase I inventory will consist of, at minimum, one-third the total curie content of all 300 Area SCW.	9/30/2002	Complete
M-92-15	Complete removal and transfer, and initiate storage of Phase II 300 Area SCW and materials. Phase II inventory will consist of, at minimum, half the remaining curie content of 300 Area SCW.	9/30/2004	Complete
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	9/30/2006	On schedule



Program Manager's Assessment

Since Last Quarterly Review

- **Environmental - Good**
 - No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of M-92 materials.

- **Safety - Good**
 - No negative safety impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the SCW inventory

- **Budget – Good**
 - Milestone M-92 activities are being completed within budget.

- **Schedule – Good**
 - Milestone M-92 activities are being completed on and ahead of schedule.



Significant Accomplishments

Since Last Quarterly Review

MX-92-06-T02

- Uranium material shipping activities continued ahead of schedule, with 33 shipments completed through 03/10/05, which is 30 additional shipments completed since the three shipments reported in the last quarterly review. Uranium removal activities are over 50% complete. Activities are continuing consistent with removal of the remaining un-irradiated uranium fuel source materials (approximately 825 metric tons) significantly ahead of the milestone due date. Note: The portion of MX-92-06-T02 that involved shipping and disposition of 135 metric tons of uranium fuel and five metric tons of uranium source material was completed and reported in the past.
- SARP revision activities were completed for the 1.25 % enrichment fuel consistent with completion of the milestone ahead of schedule. RL approval of the SARP revision was completed 3/03/05.

M-92-09 and M-92-10

- No activities are planned until the FFTF Closure Contract is in place and transition activities are completed.
- Preparation of TPA Change Request is in progress for M-92-10 to establish date consistent with anticipated future FFTF Decommissioning EIS and ROD

M-92-16

- Preparatory activities continued on schedule for 327 Building Special Case Waste (SCW) packaging/shipment activities in FY2005, consistent with completion ahead of the milestone due date. Equipment, facility, and procedures/work package preparation activities are continuing on schedule.



Significant Planned Actions

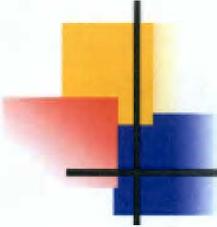
Next Six Months

MX-92-06-T02

- Continue uranium fuel shipping activities.

M-92-16

- Continue equipment and facility preparations and initiate material packaging activities consistent with completing 327 Building Special Case Waste (SCW) packaging/shipment activities on or ahead of schedule during FY2005.
- Review M-92-16 completion documentation checklist with Ecology



Project Summary

- **M-92-01:** Completed 2/08/2005, documented in DOE letter 05-AMCP-0154. Note This milestone is covered in CP/WM Quarterly Milestone Review
- **M-92-05:** Covered in CP/WM Quarterly Milestone Review
- **MX-92-06-T02:** Ahead of schedule
- **M-92-09:** On schedule
- **M-92-10:** TPA Change Request in progress
- **M-92-12:** On schedule. At this time there are no additional facilities identified as needed to store 300 Area Special Case Waste
- **M-92-16:** On schedule

Disposition of the 300 Area Surplus Facilities

Tri-Party Agreement

M-094-00 Series Milestones

Milestone Overview

Milestone	Description	Date
M-94-00	<p>Complete disposition of 300 Area Surplus Facilities.</p> <p>Completion of facility disposition is defined as the completion of deactivation, decontamination, decommissioning, and demolition and obtain EPA and/or Ecology approval of the appropriate project closeout documents (Due date defined per Change M-94-04-01)</p>	9/30/2015
M-94-01	<p>Submit a schedule and Tri-Party Agreement milestones to complete disposition of the surplus facilities in the 300 area. (Due date defined per Change M-94-04-01)</p>	12/31/2005
M-94-02	<p>Submit an amendment to the existing 324 Building REC/HLV closure plan, DOE/RL-96-73, Rev 1, for Ecology review and approval. The amendment shall change the existing closure plan path from clean closure to a path where the high risk materials and wastes are removed from the facility followed by complete disposition.</p>	Complete
M-094-03	<p>Complete disposition of the following surplus facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327. (3221, 3222, 3223, and 3224 have already been demolished)</p>	9/30/2010
M-094-05	<p>Complete deactivation, decontamination, decommissioning and demolition (D4) of 313 and 314 Facilities. (Milestone and due date defined per Change M-94-04-01.)</p>	9/30/2006

Project Summary

- The M-094 series milestones address the disposition of the 300 Area Surplus Facilities and will be performed by the successful bidder on the River Corridor Closure Contract.
 - RL continued procurement activities on the River Corridor Closure Contract. The contract award scheduled for 1/31/2005 was delayed.
 - Activities supporting achievement of Interim Milestone M-094-05 (demolition of the 313 and 314 Facilities by 9/30/2006) continued as planned by BHI consistent with the milestone due date. Demolition of outlying portions of the 313 Facility is expected to be initiated the week of 3/15/05.
 - D&D was completed for seven additional non-radiological facilities, in addition to the five facilities reported as completed in the last quarterly review. The seven facilities include the MO103, MO105, MO830, 305A, 3768, 3769, and 3770 facilities. FH has been authorized to demolish six additional facilities (3762, 3764, 3701U, 3506A, 3506B, and M0337). Demolition preparation activities are ongoing on 3762 and 3764.
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