

**Meeting Minutes**  
**Tri-Party Agreement Milestone Review**  
**June 24, 2003**

**0060003**

Approval: *Michael A. Wilson*  
**Michael A. Wilson** (B5-18)  
*Ecology IAMIT Representative*

Date: 7/22/03

Approval: *Wade Ballard for WWB*  
**W/Wade. Ballard** (A5-12)  
*RL IAMIT Representative, Chairman*

Date: 7/22/03

Approval: *N/A*  
**Jim E. Rasmussen** (H6-60)  
*ORP IAMIT Representative*

Date: \_\_\_\_\_

Approval: *Nick Ceto*  
**Nick Ceto** (B5-01)  
*EPA IAMIT Representative*

Date: 7/28/03

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

Date: 7/22/03

Aromi, E. S.	CHG	H6-63	Piippo, R. E.	FH	A4-25
Bartus, D.	EPA	B5-58	Rodriguez, H. M.	RL	A5-15
Berg, G. M.	FH	H7-27	Russell, W.	ORP	H6-60
Bilson, H. E.	RL	A3-04	Sands, J. P.	RL	A3-04
Buxbaum, M.	FH	B3-53	Schepens, R. J.	RL	H6-60
Cusack, L.	Ecology	B5-18*	Skinnarland, E. R.	Ecology	B5-18
Dagan, E. B.	RL	A5-15	Sobczyk, S.	NezPerce	
Erickson, T.	FH	L1-02	Stanley, R.	Ecology	Lacey*
Gay, R.	CTUIR		VanLeuven, D. B.	FH	H5-20
Goodenough, J.	RL	A3-04	Vu, D.	FH	L1-05*
Hebdon, J. B.	RL	A5-58	Walsh, J. L.	BHI	H0-11
Henry, G.	OOE		Wilson, M. A.	Ecology	B5-18
Hertz, J. S.	FH	A4-25	Wintczak, T. M.	BHI	H0-09
Hughes, M. C.	BHI	H0-04			
Jim, R.	Yakama*		Administrative Record	EDMC	H6-08*
LaRue, D. N.	BHI	H0-11	*w/Attachments		
Mattlin, E. M.	RL	A5-15*			
Morrison, R. D.	FH	A4-25*			
Niles, K. S.	OOE				

**RECEIVED**  
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**EDMC**

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

The Tri-Party Agreement Change Request reestablishing Tri-Party Agreement milestones and target dates for FFTF deactivation was approved in May 2003. Approval was received to begin fuel offload activities. Planning and preparations are underway to transfer the unirradiated fuel to PFP. Sodium drain from the secondary sodium loops to the Sodium Storage Facility was initiated on April 7, 2003 and the drain of the secondary loops was completed on April 16, 2003. A procedural closure request was submitted to Ecology in accordance with Tri-Party Agreement Milestone M-020-29B.

Development of the FFTF lifecycle rebase line will be completed using a project funding profile of \$43.8 million in FY 2004 and \$46.1 million annually thereafter. Project is on schedule to meet all milestones agreed to by the parties in May 2003.

No significant issues/concerns resulting in follow-on activities were identified during the presentation.

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

Start: 10:21 a.m.

End: 10:26 a.m.

The 324 Facility has transitioned to minimum operations and continued preventive/corrective maintenance and surveillance activities consistent with facility safety basis requirements. Work will continue to complete design and initiate fabrication of the 324 Building Radiochemical Engineering Cells Liquid Waste Handling System (LWHS) skid for future cell decontamination activities. The LWHS is the only work that will continue for the 324 Facility; workscope is contingent on award of the RCP contract. Closure activities continue within budget and on schedule.

No significant issues/concerns resulting in follow-on action were identified during the presentation. Presentation attached.

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

No further SCW packaging/shipping activities are planned at the 327 Building until after the new River Corridor Contract is in place. All 300 Area SCW was removed from the 324 and 325 Buildings. Only the 327 and 340 Buildings SCW remain in the 300 Area.

No significant issue/concerns resulting in follow-on action were identified during the presentation. Presentation attached.

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

As noted in the RCP presentation, Tri-Party Agreement Interim Milestone M-094-01, *Submit a Schedule and Tri-Party Agreement Change Request to Complete Disposition of the Following Surplus Facilities: 300M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327*, due November 30, 2003 is in jeopardy. Completion of this milestone is contingent on the award of the RCP contract. Discussions continue between RL and the regulators on alternative approaches to meet these milestones.

No significant issue/concerns resulting in follow-on action were identified during the presentation. Presentation attached.

Tri-Party Agreement Milestone Review - River Corridor Project  
EPA Conference Room  
712 Swift Blvd., Richland, Washington  
June 24, 2003

Time: 10:00 am - 11:00 am

- 10:00 a.m. M-16-00 Complete Remedial Actions  
M-93-00 Disposition of Surplus Reactors
- 10:20 a.m. M-81-00 Fast Flux Test Facility Transition
- 10:30 a.m. M-89-00 324 Bldg. Closure of MW Units  
M-92-00 Facilities for Sodium and Special Case Waste  
(RC Milestones Only)  
M-94-00 300 Area Surplus Facilities
- 11:00 a.m. Adjourn Milestone Review

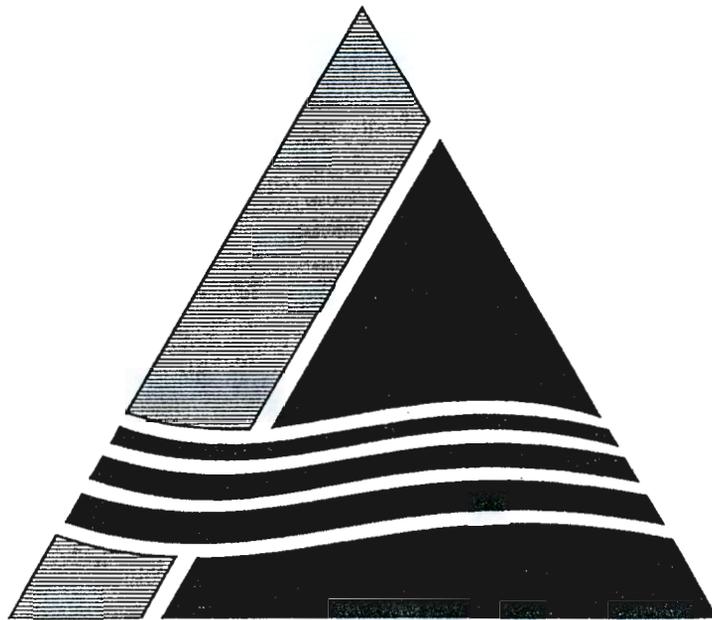
**ATTENDEES**  
**River Corridor**  
**Tri-Party Agreement Milestone Review**  
**June 24, 2003**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
<u>KEVIN D. BAZZU</u>	<u>DOE-RL</u>	<u>A3-04</u>	<u>_____</u>
<u>Doug Chapin</u>	<u>DOE-RL/FAF DIVISION</u>	<u>A3-04</u>	<u>_____</u>
<u>Tom Winterak</u>	<u>BHL</u>	<u>H0-11</u>	<u>_____</u>
<u>AL Farabee</u>	<u>DOE</u>	<u>A3-04</u>	<u>_____</u>
<u>Craig Cameron</u>	<u>EPA</u>	<u>B501</u>	<u>_____</u>
<u>Dennis Full</u>	<u>EPA</u>	<u>_____</u>	<u>_____</u>
<u>Nick Cato</u>	<u>EPA</u>	<u>_____</u>	<u>_____</u>
<u>David E. Rasmussen</u>	<u>FA/CP/Env.</u>	<u>L1-04</u>	<u>_____</u>
<u>JANE HEDGES</u>	<u>Ecology</u>	<u>_____</u>	<u>_____</u>
<u>Melinda J Brown</u>	<u>Ecology</u>	<u>BB-15</u>	<u>✓</u>
<u>Jeff Ayres</u>	<u>Ecology</u>	<u>_____</u>	<u>_____</u>
<u>DEENA LARUE</u>	<u>BHL</u>	<u>_____</u>	<u>_____</u>
<u>Ellen Dagan</u>	<u>DOE/LCA</u>	<u>A5-15</u>	<u>_____</u>
<u>DEANNA HENRY</u>	<u>OREGON ENERGY</u>	<u>_____</u>	<u>_____</u>
<u>Dave Templeton</u>	<u>DOE-RL</u>	<u>A3-04</u>	<u>_____</u>
<u>Jeanne Wallace</u>	<u>Ecology</u>	<u>_____</u>	<u>_____</u>
<u>Goul Hilder</u>	<u>RL-RCA</u>	<u>_____</u>	<u>_____</u>
<u>John Price</u>	<u>Ecology</u>	<u>_____</u>	<u>_____</u>
<u>LAURA CUSACK</u>	<u>Ecology</u>	<u>_____</u>	<u>✓</u>
<u>Jeanne Wallace</u>	<u>Ecology</u>	<u>B5-18</u>	<u>✓</u>
<u>ROB PIERRE</u>	<u>FA/CPA</u>	<u>_____</u>	<u>✓</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Richland Environmental Restoration Project

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# TPA Quarterly Review



*Tri-Party Agreement*

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

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June 24, 2003

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# **ENVIRONMENTAL RESTORATION PROJECT**

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- River Corridor Issues
- River Corridor FY03 PBS Performance Summary

### **INTEGRATION ISSUES**

**ENVIRONMENTAL RESTORATION PROJECT**  
**RIVER CORRIDOR**  
**FY 2003 TPA MILESTONE SUMMARY**  
(Major & Interim Milestones)

Status as of: May 31, 2003

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
RC01	M-16-10A	Initiate Remedial Action in the 100-KR-1 Operable Unit	08/01/2003	12/11/2002 (A)	X						
RC01	M-93-16	Complete 105-DR Reactor Interim Safe Storage	09/30/2003	01/29/2003 (A)	X						
RC01	M-16-13B	Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as Defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	10/29/2004	05/20/2003 (A)	X						
<b>Total FY 2003 ER River Corridor TPA Milestones</b>			<b>3</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

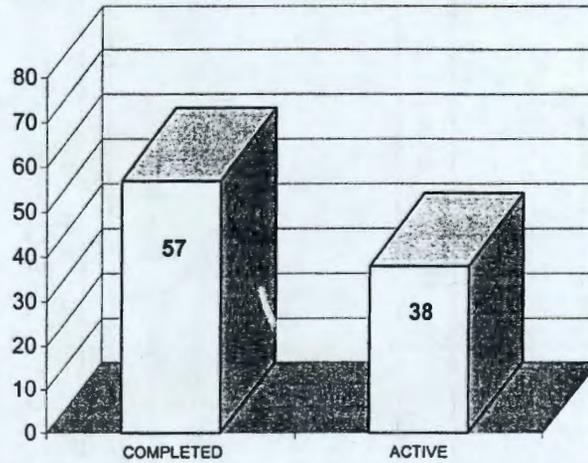
**RIVER CORRIDOR**  
**FY 2004 TPA MILESTONE SUMMARY**  
(Major & Interim Milestones)

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			At Risk	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
RC02	M-16-63*	Submit a Schedule and TPA Milestones to 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) and Confirmatory Sampling of the Following 300-FF-2 Candidate Sites (300-109, 300-110, and 333 ESHWSA)	11/30/2003							X	
RC02	M-94-01*	Submit a Schedule and TPA Milestones to Complete Disposition of the Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327	11/30/2003							X	
RC02	M-16-03H	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit to Include Excavation, Verification, and Regrading, Including the 618-4 Burial Ground in Accordance with an Approved RDR/RAWP	06/30/2004					X			
RC01	M-16-26E	Complete Excavation and Removal of 100 B/C Process Effluent Pipelines	09/30/2004					X			
RC01	M-93-11	Complete 105-F Reactor Interim Safe Storage	09/30/2004	12/31/2003			X				
<b>Total FY 2004 ER River Corridor TPA Milestones</b>			<b>5</b>		<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>

\* RL is working with regulators to discuss potential impacts/options.

# ENVIRONMENTAL RESTORATION PROJECT

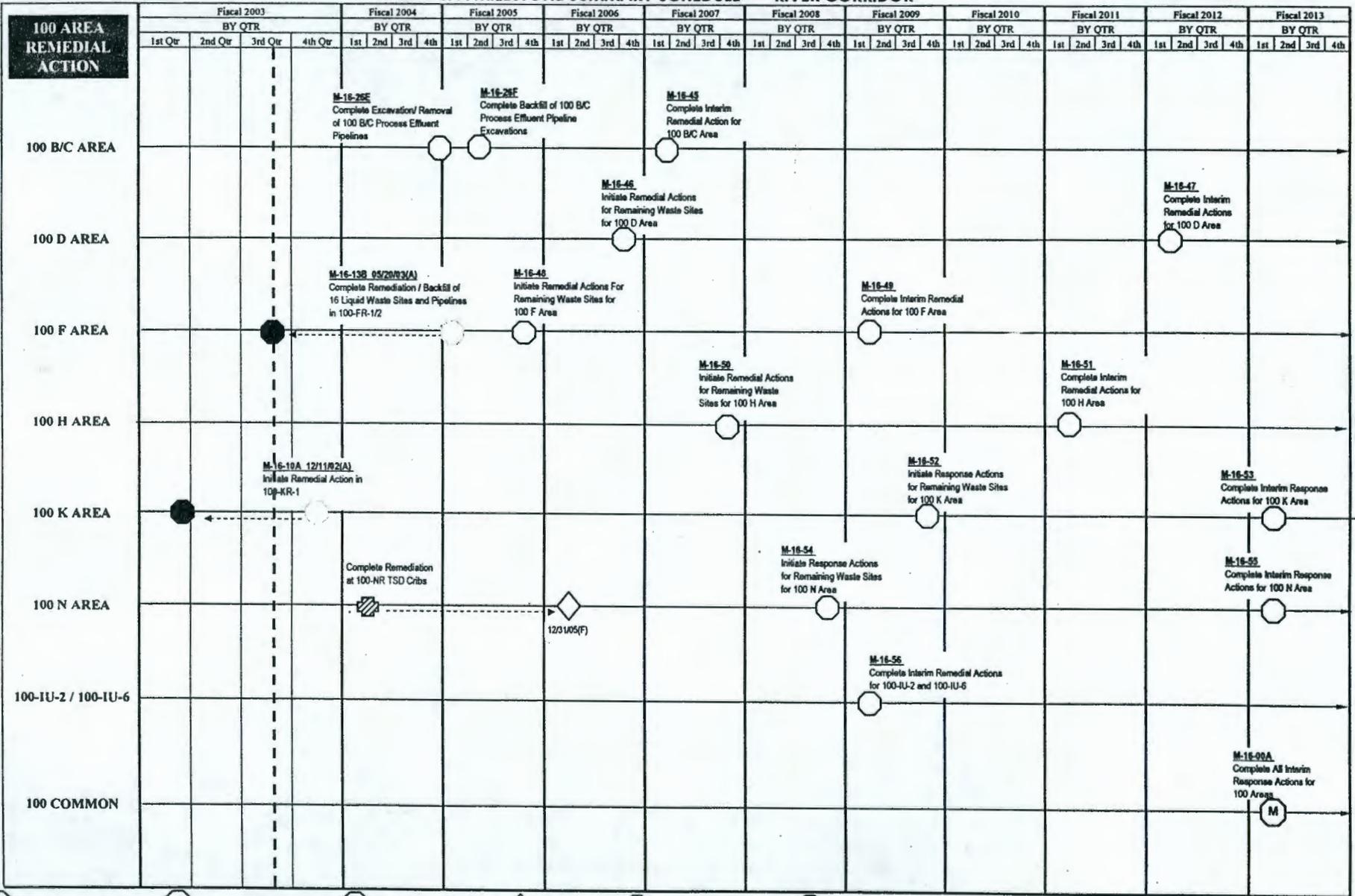
## River Corridor TPA Milestone Statistics (Major & Interim Milestones)



	Compliance Due Date	Total Active @ 05/2003	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date			
<b>M-16-00</b> Remedial Design / Remedial Action	<b>9/30/2018</b> (M-16-00B)	<b>24</b>	<i>M-16-10A (C)</i>	<i>08/01/03</i>	M-16-49	12/31/08			
			M-16-63	11/30/03	M-16-56	12/31/08			
			M-16-03H	06/30/04	M-16-61	12/31/08			
			M-16-26E	09/30/04	M-16-52	07/31/09			
			<i>M-16-13B (C)</i>	<i>10/29/04</i>	M-16-64	09/30/10			
			M-16-26F	02/28/05	M-16-51	12/31/10			
			M-16-48	07/31/05	M-16-47	12/31/11			
			M-16-65	08/30/05	M-16-53	12/31/12			
			M-16-46	07/31/06	M-16-55	12/31/12			
			M-16-45	12/31/06	M-16-62	12/31/12			
			M-16-60	12/31/06	M-16-00A	12/31/12			
			M-16-50	07/31/07	M-16-00B	09/30/18			
			M-16-54	07/31/08	M-16-03I	TBD			
			<b>M-93-00</b> Reactors on River Final Disposition	<b>TBD</b> (M-93-00)	<b>10</b>	<i>M-93-16 (C)</i>	<i>09/30/03</i>	M-93-24	09/30/06
						M-93-11	09/30/04	M-93-19	09/30/09
M-93-17	12/31/04	M-93-22				09/30/11			
M-93-25	09/30/05	M-93-20				09/30/12			
M-93-18	12/31/05	M-93-00				TBD			
M-93-23	07/31/06								
<b>M-94-00</b> 300 Area Surplus Facilities Disposition	<b>9/30/2018</b> (M-94-00)	<b>4</b>	M-94-01	11/30/03					
			M-94-04	08/30/05					
			M-94-03	09/30/10					
			M-94-00	09/30/18					
<b>TOTAL ACTIVE MILESTONES</b>		<b>38</b>	<b>3 --- MILESTONES COMPLETED IN FY03 (C)</b>						

Richland Environmental Restoration Project

TPA MILESTONE SUMMARY SCHEDULE -- RIVER CORRIDOR



○ TPA MILESTONE    
 M TPA MAJOR MILESTONE    
 T TARGET MILESTONE    
  FORECAST    
  UNRECOVERABLE    
 ● "AT RISK"    
 (P) PENDING CHANGE REQUEST    
  RCRA PERMIT COMMITMENT

Richland Environmental Restoration Project

TPA MILESTONE SUMMARY SCHEDULE -- RIVER CORRIDOR

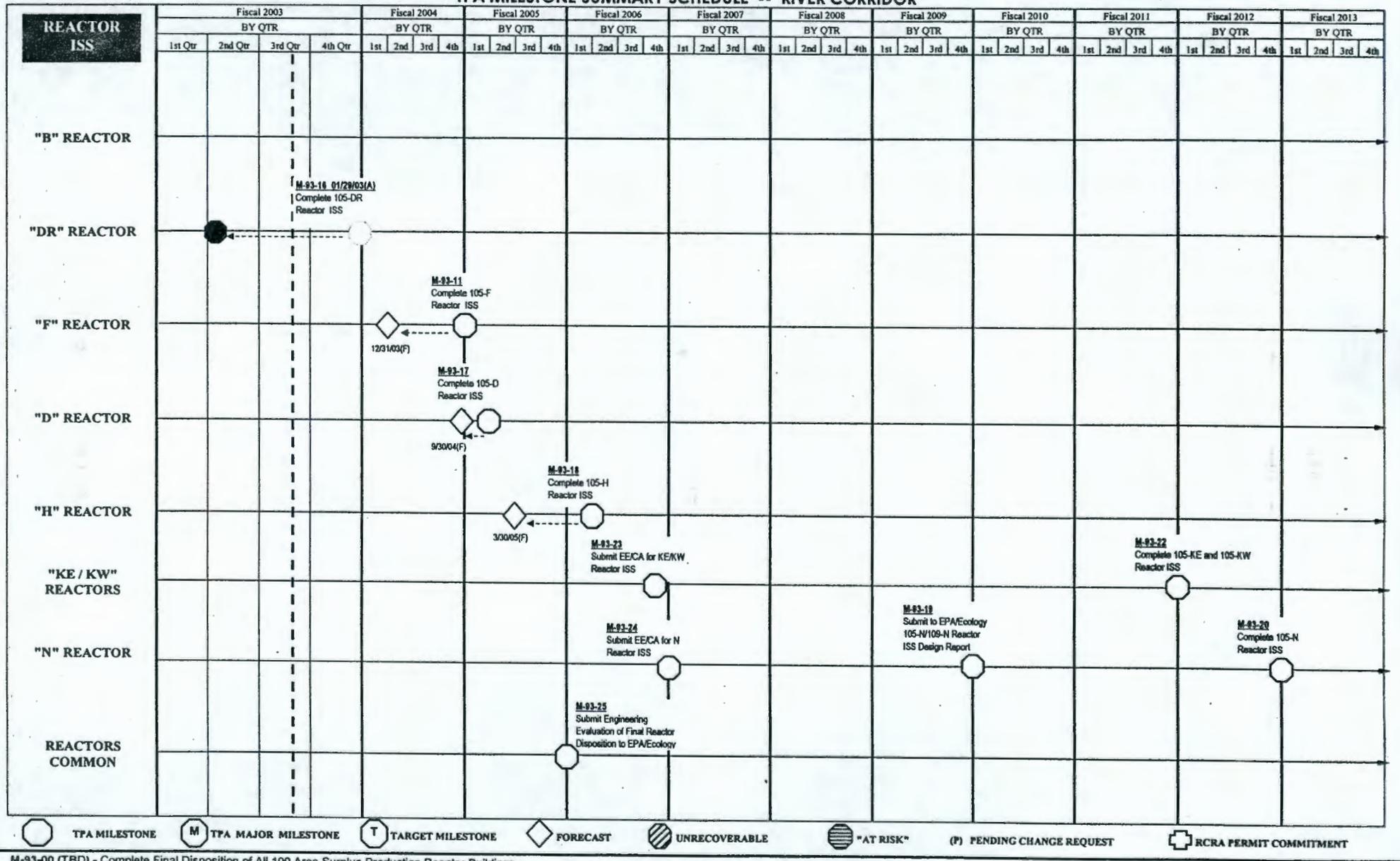
300 AREA REMEDIAL ACTION/ FACILITIES	Fiscal 2003				Fiscal 2004				Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013			
	BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR				BY QTR							
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st	2nd	3rd	4th																																				
300-FF-1																																												
300-FF-2																																												
300 COMMON																																												
300 AREA SURPLUS FACILITIES																																												

○ TPA MILESTONE   
 Ⓜ TPA MAJOR MILESTONE   
 Ⓣ TARGET MILESTONE   
 ◇ FORECAST   
 ⊘ UNRECOVERABLE   
 ⊙ "AT RISK"   
 (P) PENDING CHANGE REQUEST   
 ⊕ RCRA PERMIT COMMITMENT

M-16-03I (TBD) - Complete Treatment of Drummed Waste from 618-4 Burial Ground  
 M-94-00 - 09/30/2018 - Complete Disposition of 300 Area Surplus Facilities  
 M-16-00B - 09/30/2018 - Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of all Candidate Sites Listed in 300-FF-2 ROD

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-16-03-01**  
**300-FF-1 Backfill/  
Regrade Deferral**  
**Approved - 3/25/03**

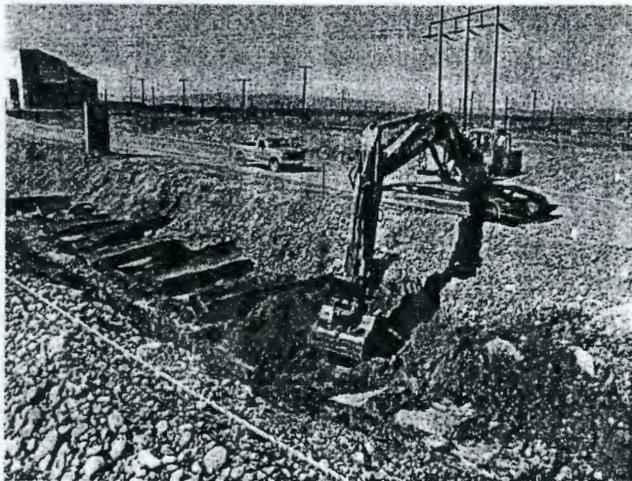
This change request deferred TPA Milestone **M-16-03H**, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit to Include Excavation, Verification, and Regrading, Including the 618-4 Burial Ground in Accordance with an Approved RDR/RAWP", from December 31, 2003 to June 30, 2004. This six-month extension will allow RL, EPA, and the local government agencies (City of Richland and Benton County Board of Commissioners) to confirm the 300-FF-1 Operable Unit regrading methodology and end state.

## ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

### Remedial Action (M-16-13B, M-16-03H)

Significant effort continues toward achieving the goal to complete 32 waste sites by June 30. As of the end of May, closure documentation has been submitted for 28 waste sites. A total of 18 waste sites have been excavated through May.

Overburden removal, pipe shearing, demolition, and loadout activities progressed in the 100 B/C Area pipeline remediation. More than 86,000 tons of waste have been removed from 100 B/C Area and disposed in ERDF in FY03.



Loadout of Pipeline 26 from C Reactor and Contaminated Soil

The 100 B/C Area Pilot Study Data Quality Objective (DQO) Summary Report, Rev. 0, was issued the first week of March. A presentation of the pilot study was provided to the HAB River and Plateau Committee. In April, an independent peer review was conducted on the pilot study ecological risk assessment Sampling and Analysis Plan (SAP). The peer review panel submitted comments and recommendations, and the revised SAP was submitted to RL on May 30.

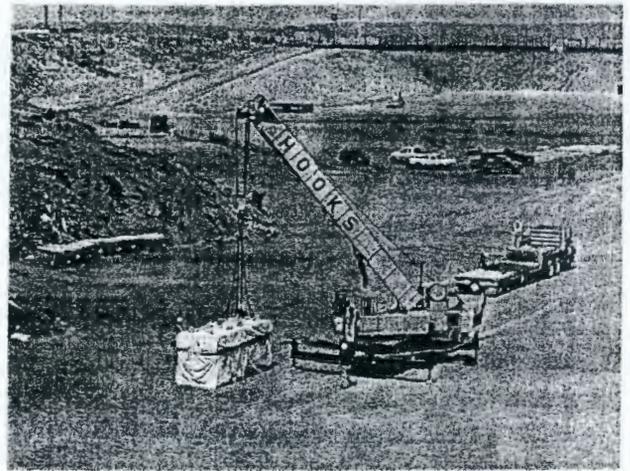
On May 20, backfill activities for 30 excavated liquid waste sites in the 100 F Area were completed, which satisfies completion of TPA Milestone M-16-13B, "Complete Remediation and Backfill of 16 Liquid Waste Sites and Process Effluent Pipelines in the 100-FR-1 and 100-FR-2 Operable Units as Defined in the RDR/RAWP for 100 Area," (due October 29, 2004), more than 17 months ahead of schedule.

A small-business design subcontract was awarded in May to address elevated radiological dose and airborne levels in the 116-N-1 Crib.

On May 27, RL, EPA, and Ecology approved the Explanation of Significant Difference (ESD) for the 100-NR-1 and 100-NR-1/100-NR-2 Interim Action Records of Decision. This ESD invoked the "balancing factors" from the ROD to determine the extent of excavation below 15 feet. It also expanded the institutional controls (ICs) to prohibit irrigation at the 116-N-1 waste site and changed the reporting requirements for ICs at 100-NR-1/100-NR-2. Technical evaluations to support selection of the final remedial action are being directed by the Groundwater Project (covered in "Integration Issues" at the back of this review).

Construction was completed in March on the firewater loop upgrade near the interim waste staging area at ERDF.

On April 22, a RFP was issued for construction and construction quality assurance for ERDF Cells 5 and 6.



Offloading an IXM from K Basin at ERDF

Through May, a total of 4,286,552 tons of waste have been disposed in ERDF since operations began in July 1996:

During March, the last contaminated land disposal restricted (LDR) material from the 300 Area 618-4 Burial Ground was transported to ERDF for disposal. Excavation and stockpiling of the oil-contaminated soil from the burial ground was completed in May.

The uranium chip/oil-drummed waste treatment plan was issued in March. The preferred treatment technology recommendation is off-site phase separation, incineration of the liquids, and solidification of the solids. The residuals would be returned for ERDF disposal.

## ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

The infiltration test results for the North Process Pond (300 Area) were within the new uranium cleanup goal. No further remediation will be required at this waste site.



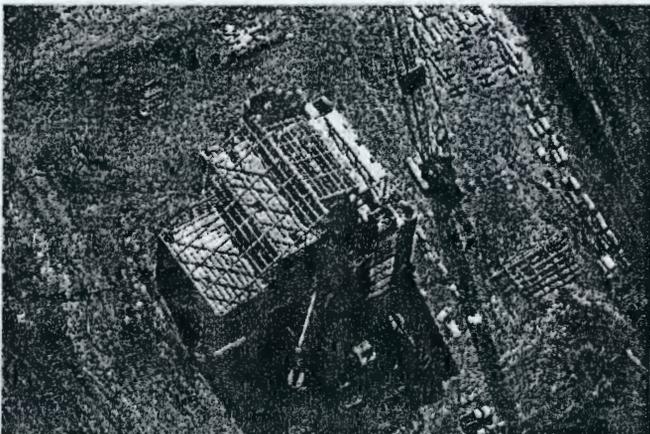
Test Pit Excavation at North Process Pond

Cleanup verification packages, Rev. 0, were approved in May for Landfills 1A and 1B located in the 300 Area.

### Reactor ISS (M-93-11, M-93-17, M-93-18)

1720-HA arsenal building demolition and waste disposal activities were completed on April 22. The 118-C-4 Horizontal Rod Storage Cave demolition and loadout are complete, and rod disposal is in progress. 117-DR filter building demolition is expected to be completed in early June.

F Reactor safe storage enclosure (SSE) roof installation is approximately one month ahead of schedule. Through May, F Reactor ISS is 95% complete (100% completion planned by end of FY03).

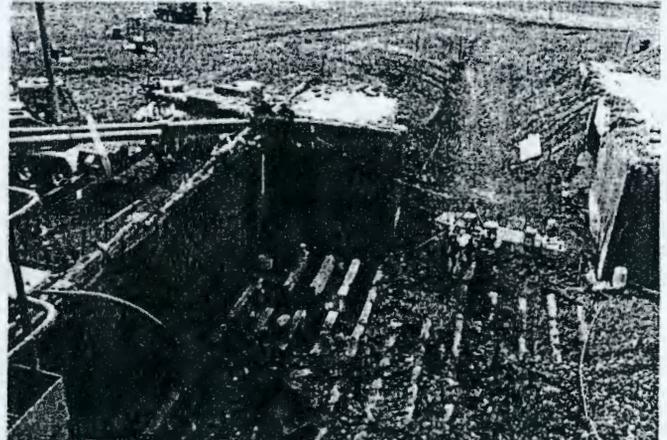


F Reactor SSE Construction

The subcontract for the DR Reactor cleanup verification package was awarded on May 6.

The subcontract for D Reactor SSE design and installation was awarded on May 22. Through May, D Reactor ISS is 85% complete (90% completion planned by end of FY03).

Three spent fuel elements have been found during H Reactor FSB demolition. Through May, H Reactor ISS is 49% complete (56% completion planned by end of FY03).



H Reactor FSB Cleanup

In April, the 100 N Area ancillary facilities Removal Action Work Plan was revised to incorporate comments received from Ecology.

### Surveillance and Maintenance

Asbestos abatement of the 109-N facility roof-mounted ventilation duct was completed in April. In May, a subcontract was established for additional field work on the 109-N facility asbestos removal (pipe elbows) and 1112-N reroofing projects. Asbestos abatement of the 1304-N emergency dump tank was also initiated in April.

A RFP was issued for vent duct covering and ventilation upgrade for B Reactor hazards mitigation. Beryllium sampling was also performed on the B Reactor main breaker. Results were negative.

Annual inspection tours of the B, C, KE, KW, and N Reactors were conducted in May for the Russian delegation in support of the U.S.-Russian Plutonium Production Reactor Agreement Treaty.

Surveillance and calibration were completed on the C-elevator/fission trap bubblers at N Reactor.

During May, bare ground pre-emergent and spring vegetated post-emergent herbicide applications were completed.

## ERC RIVER CORRIDOR ISSUES

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- **M-16-63 and M-94-01:** Tri-Party Agreement Milestone M-16-63, "Submit a Schedule and TPA Milestones to 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) and Confirmatory Sampling of the Following 300-FF-2 Candidate Sites (300-109, 300-110, and 333 ESHWSA)"; and Milestone M-94-01, "Submit a Schedule and TPA Milestones to Complete Disposition of the Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327" (both due November 30, 2003), are at risk due to the delay in awarding the River Corridor contract.

**Strategy/Status:** RL is working with EPA and Ecology to discuss potential impacts and options for resolution of these milestones.

# ERC RIVER CORRIDOR PERFORMANCE SUMMARY

## RIVER CORRIDOR

### FY 2003 ERC PBS PERFORMANCE SUMMARY FYTD MAY 2003 (\$K)

	FY03 DWP BCWS	CURRENT BCWS	FYTD			FYTD SCHEDULE VARIANCE			FYTD COST VARIANCE			EAC
			BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI	
RC01	65,900	69,470	44,616	46,097	43,768	1,481	3.3%	1.03	2,329	5.1%	1.05	66,348
RC02	12,608	13,055	8,672	10,427	8,540	1,755	20.2%	1.20	1,887	18.1%	1.22	11,166
RC05	32,855	35,008	22,020	22,888	21,079	868	3.9%	1.04	1,809	7.9%	1.09	32,895
<b>RCR-Subtotal</b>	<b>111,363</b>	<b>117,533</b>	<b>75,308</b>	<b>79,412</b>	<b>73,387</b>	<b>4,104</b>	<b>5.4%</b>	<b>1.05</b>	<b>6,025</b>	<b>7.6%</b>	<b>1.08</b>	<b>110,409</b>
SC01	100	99	34	37	23	3	8.8%	1.09	14	37.8%	1.61	
<b>SS-Subtotal</b>	<b>100</b>	<b>99</b>	<b>34</b>	<b>37</b>	<b>23</b>	<b>3</b>	<b>8.8%</b>	<b>1.09</b>	<b>14</b>	<b>37.8%</b>	<b>1.61</b>	<b>84</b>
<b>ERC TOTAL</b>	<b>111,463</b>	<b>117,632</b>	<b>75,342</b>	<b>79,449</b>	<b>73,410</b>	<b>4,107</b>	<b>5.5%</b>	<b>1.05</b>	<b>6,039</b>	<b>7.6%</b>	<b>1.08</b>	<b>110,493</b>

#### Schedule Variance Summary:

Through May, the ER Project is \$4.1M (+5.5%) ahead of schedule. The positive schedule variance is attributed to the acceleration of the 300 Area 618-5 Burial Ground remediation operations, 100 N Area plume excavation and 100 F Area cleanup verification/backfill proceeding ahead of schedule, and related ERDF operations ahead of schedule.

#### Cost Variance Summary:

At the end of May, the ER Project had performed \$79.4M worth of work, at a cost of \$73.4M. This results in a favorable cost variance of \$6.0M (+7.6%). The positive cost variance is attributed to consolidating common 618-4 and 618-5 Burial Ground remediation activities, lower project support costs due to resource sharing for 100 Areas remediation, and prior-year rebill accounting adjustments that were realized in March. Underruns are partially offset by additional cost to resolve ISS higher than anticipated radioactive contamination findings.

## INTEGRATION ISSUES

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

The Groundwater Project is directing evaluations that will support selection of the final remedial action for 100 N Area soil sites. These evaluations include an evaluation of impacts to aquatic and riparian ecoreceptors, an evaluation of the phytoremediation technology, and an evaluation of the apatite sequestration technology. All three evaluations will be completed in October 2004 or later, and are not expected to affect the volume or duration of soil excavation under the existing 100-NR-1 and 100-NR-1/100-NR-2 RODs. Therefore, there is currently no identified impact of Central Plateau workscope for 100 N Area milestones or workscope.

There is currently no other potential impact of Central Plateau workscope 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  
M-81-00 Series Milestones and  
Related M-20-29B Milestone**

# 6/03 Status of FFTF Deactivation TPA M-81-00 Milestones and Related M-20-29B Milestone

<b>Milestone</b>	<b>Milestone Description</b>	<b>Due Date</b>	<b>Status</b>
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	On Schedule
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 1/97

# 6/03 Status of FFTF Deactivation TPA M-81-00 Milestones and Related M-20-29B Milestone

<b>Milestone</b>	<b>Milestone Description</b>	<b>Due Date</b>	<b>Status</b>
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	6/30/03	Completed 6/12/03

# **Significant Accomplishments**

## **(6/03)**

- **Reinstatement of TPA M-81-00 Series Milestones and Related M-20-29B Milestone**
  - The Change Request re-establishing the subject milestones and target dates for the FFTF deactivation was approved by the Tri-Party agencies in 5/03.
- **Fuel Offload**
  - On 4/28/03, approval was received to begin fuel offload activities.
  - On 6/13/03, an Interim Storage Cask (ISC) was loaded and transferred to the Interim Storage Area (ISA).
  - Planning and preparations are underway to transfer unirradiated fuel to the Plutonium Finishing Plant.

# **Significant Accomplishments**

## **(6/03, Continued)**

### ■ **M-81-12 Completed**

- This milestone was met once sodium drain from the secondary sodium loops to the Sodium Storage Facility was initiated on 4/7/03. Drain of the secondary loops was completed on 4/16/03.

### ■ **M-20-29B Completed**

- This milestone, which replaced the old M-20-29A milestone, was met on 6/12/03 by DOE-RL submittal of a Resource Conservation and Recovery Act (RCRA) procedural closure request to Ecology for the Sodium Storage Facility/Sodium Reaction Facility (per Section 6.3.3 of the TPA).

# **Significant Planned Actions**

## **(Next six months)**

### **■ Fuel Offload**

- 11 more ISCs will be loaded and transferred to either the ISA or PFP, for a total of 12 ISCs (81 fuel assemblies) being dispositioned by 1/22/04.
- Preparation will begin for special fuel disassembly in the Interim Examination and Maintenance (IEM) Cell
- The ISC procurement contract will be placed.

### **■ Sodium Drain**

- The Intermediate Heat Exchanger (IHX) secondary-side drains will be completed.

# Schedule/Cost Performance

## Fiscal Year to Date Status (\$000s)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-CP04 <b>FTF Project</b>	25,702	24,886	25,162	-816	-3%	-276	-1%	38,428

Status through May 2003 month end

### **Schedule Variance Analysis (-\$0.8M):**

The schedule variance is within the established threshold (+/- 10% or \$1M).

### **Cost Variance Analysis (-\$0.3M):**

The cost variance is within the established threshold (+/- 10% or \$1M).

# Project Issues/Summary

- By 6/30/03, a lifecycle project rebaseline will be completed using a projected funding profile of \$43.8 million in Fiscal Year (FY) 2004 and \$46.1 million thereafter. Any impacts of this new funding profile on the project and milestones will be assessed.
- 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 all milestones agreed to by the Tri-Party agencies in 5/03.

# *Milestone TPA-M-89*



## 324 Building

# Closure of Mixed Waste Units

IAMIT Meeting June 24, 2003  
Tri-Party Agreement  
Quarterly Milestone Review Report

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



## *Active Milestone Overview*

<b>Milestone</b>	<b>Description</b>	<b>Date</b>	<b>Status</b>
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	In Progress



# *Program Manager's Assessment*

*Since Last Quarterly review*

## **Environmental – Excellent**

- 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 – Excellent**

- Activities related to completion of the M-89-00 milestone have been conducted safely during the last quarter.

## **Cost – Good**

- Size reduction and removal of 324 Building Spent Nuclear Fuel equipment were performed within budget and on schedule.

## **Schedule –**

- Five waste containers of size reduced Spent Nuclear Fuel equipment were dose profiled and staged in A cell.



# *Significant Accomplishments*

*Since Last Quarterly Review*

## **M-89-00**

- Placed collected material/debris from underneath the Spent Nuclear Fuel racks in container for disposition with future cleanout material
- Repaired the A-Cell door crane to allow staging of non-mixed waste grout containers in A-Cell
- Continued size-reduction activities for Spent Nuclear Fuel equipment and filled five non-mixed waste grout containers in B-Cell
- Completed dose profiling (LLW/TRU) for five grout containers and moved the grout containers to A-Cell for staging for future shipment
- Partially filled three other non-mixed waste grout containers in B-Cell with size-reduced equipment
- Transitioned to minimum safe operations mode in the 324 Facility and continued preventive/corrective maintenance and surveillance activities consistent with facility safety basis requirements



# *Significant Planned Actions*

*Next Three Months*

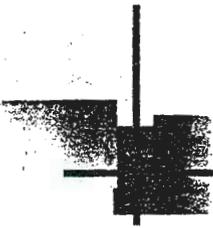
## **M-89-00**

- Continue minimum safe operations mode in the 324 Facility and perform preventive/corrective maintenance and surveillance activities consistent with facility safety basis requirements.
- Complete design and begin fabrication of 324 Building Radiochemical Engineering Cells Liquid Waste Handling System (LWHS) skid for future cell decontamination activities. The LWHS is a radiological decontamination system being designed and procured which will be used to reduce contamination levels inside B-Cell, and possibly other cells, to help facilitate facility deactivation.
- Continue transition activities after the stay to the River Corridor Contract has been lifted.



## *Project Summary*

- Limited progress in M-89-02 was achieved during the past quarter while the 324 Building was placed in a minimum safe staffing mode. Until River Corridor Contract transition activities are completed, no significant 324 Building deactivation activities are planned in the future.



# Nuclear Materials and Facility Stabilization

## Milestone TPA-M-92

IAMIT Meeting June 24, 2003  
Tri-Party Agreement  
Quarterly Milestone Review Report

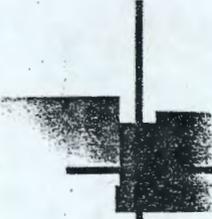
Ecology Program Manager – FW Bond  
DOE-RL Program Manager – DT Evans  
FH Environmental Sponsor – DE Rasmussen

# Milestone M-92-00 Interim Milestones and Target Dates

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.	12/31/09	On schedule
M-92-05	Inclusion of Hanford Site Cs/Sr "treatment and/or repackaging parameters" in DOE TWRS Phase II Request for Proposals (treatment and/or repackaging of all remaining Cs/Sr).	6/30/03	In ORP Review
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 <sub>2</sub> 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.	12/31/01	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.	9/30/06	On Schedule
M-92-09	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 sodium	In Abeyance	Change Request
M-92-10	Submit Hanford Site Sodium Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan Section 11.5.	In Abeyance	Change Request

# Milestone M-92-00 Interim Milestones and Target Dates (cont'd)

Milestone	Description	Target Date	Status
MX-92-11-T01	Complete disposition options for all Hanford non-radioactive sodium.	9/30/04	On schedule
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.	9/30/06	On schedule
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	9/30/00	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.	9/30/02	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.	9/30/04	Complete
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	9/30/06	On schedule



# Program Manager's Assessment

since last quarterly review

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## ■ **Environmental - Excellent**

- No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special Case Waste (SCW) inventory

## ■ **Safety - Excellent**

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

## ■ **Budget - Excellent**

- Key milestone M-92 activities are being completed within budget

# Program Manager's Assessment (cont'd)

since last quarterly review

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## ■ **Schedule - Good**

### ■ **MX-92-06-T02**

- No activities are planned for the next 3 months

### ■ **M-92-09 and M-92-10**

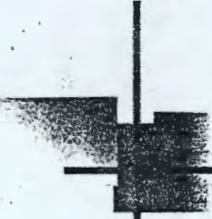
- A draft change request has been submitted to reinstate these milestones with revised due dates

### ■ **MX-92-11-T01**

- Responses to a Request for Proposal for removing sodium residues from the two large tanks in 337B have been evaluated and contract negotiation is in progress

### ■ **M-92-16**

- Ahead of schedule overall. No Special Case Waste (SCW) packaging/shipment activities performed this quarter at 327 Building



# Significant Planned Actions

next three months

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- **M-92-09 and M-92-10**
  - Complete negotiations and approve change package
- **MX-92-06-T02**
  - If funded, revise existing Safety Analysis Report for Packaging (SARP) to allow on-site shipment of remaining 825 metric tons of fuel assemblies
- **MX-92-11-T01**
  - Establish contract for cleaning the sodium residuals from the 337B Composite Reactor Component Test Activity (CRCTA) vessel. Cleaning of 3718M and final rinsing and drying of both tanks will be self-performed on schedule to meet 9/30/04 target
  - Ship the 337B sodium cold trap to ANL-W for recycle
- **M-92-16**
  - Ahead of schedule, no additional SCW packaging/shipping activities planned for 327 facility next quarter



# Project Summary

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- **M-92-05:** To be covered in ORP Milestone Review
- **MX-92-06-T02:** On schedule
- **M-92-09:** Negotiating draft change request
- **M-92-10:** Negotiating draft change request
- **MX-92-11-T01:** On schedule
- **M-92-12:** On schedule. At this time there are no additional facilities identified as needed to store 300 Area Special Case Waste
- **M-92-15:** Complete
- **M-92-16:** On schedule. No further Special Case Waste packaging/shipping activities planned at 327 Building until after the new River Corridor Contract is in place. All 300 Area SCW has already been removed from 325 and 324 Buildings at this time. Only 327 and 340 Buildings SCW remains in the 300 Area

# Disposition of the 300 Area Surplus Facilities

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## Milestone TPA-M-094

# Active 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, and decommissioning, and obtain EPA and/or Ecology approval of the appropriate project closeout documents</p>	9/30/2018
M-94-01	<p>Submit a schedule and TPA milestones to complete disposition of the following surplus facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327.</p>	11/30/03
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. (Submitted 7/30/02, Ecology approval letter 12/18/02)</p>	7/30/02
M-094-03	<p>Complete disposition of the following surplus facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327</p>	9/30/2010
M-094-04	<p>Submit a schedule and Tri-Party Agreement milestones to complete disposition of the surplus facilities in the 300 Area and identify the 300 Area facilities and associated waste sites that will remain past the M-094-00 completion date.</p>	8/30/2005

# Project Summary

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- The remaining M-094 series milestones are part of the Hanford River Corridor Contract work scope, which will be assigned to the contractor when the contract is successfully in place
  - Issue Identification: Due to the delay in awarding the River Corridor Contract and the subsequent ongoing bid award protest, completion of Tri-Party Agreement Interim Milestone M-094-01 by the due date of November 30, 2003 is at risk
    - Issue Status/Strategy: RL has initiated discussions with EPA and Ecology regarding this issue and will be continuing to work with EPA and Ecology to address this issue
-