

Meeting Minutes  
Tri-Party Agreement Milestone Review  
June 22, 2004

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

Date: 7/12/04

Approval: *J. B. Hebdon*  
**J. B. Hebdon**, (A5-12)  
*RL IAMIT Representative*

Date: 7/15/04

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

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

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

Date: 8 Jul 04  
**RECEIVED**  
JUL 27 2004

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

Date: 7/8/04  
**EDMC**

Aromi, E. S.	CHG	H6-63	Hertzfel, J. S.	FH	A4-25
Bartus, D.	EPA	B5-58	Jackson, G. W.	FH	H5-20
Bazzell, K. D.	RL	A3-04*	Jim, R.	Yakama*	
Bond, R.	Ecology	H0-57	LaRue, D. N.	BHI	H0-20
Brown, M.	Ecology	H0-57	Logan, T. E.	BHI	H9-04
Buxbaum, M.	FH	B3-53	Luke, S.	FH	H8-40
Chapin, D.	RL	A3-04	Morrison, R. D.	FH	A4-25*
Cusack, L.	Ecology	H0-57*	Niles, K. S.	ODE	
Daily, J.	RL	A3-04	Olinger, S.	RL	A6-37
Dagan, E. B.	RL	A5-15	Piippo, R. E.	FH	A4-25
Erickson, T.	FH	L1-02	Price, J.	Ecology	A5-15*
Fox, M.	BHI	H0-11	Schepens, R. J.	RL	H6-60
Farabee, A.	RL	A3-20	Skinnarland, E. R.	Ecology	H0-57
Gadbois, L.	EPA	B5-01	Sobczyk, S.	NezPerce	
Gallagher, R. G.	FH	H5-20	Walsh, J. L.	BHI	H0-20
Goodenough, J.	RL	A3-04	Wilson, M. A.	Ecology	H0-57
Guercia, R. F.	RL	A3-04			
Harris, S.	CTUIR*				
Hebdon, J. B.	RL	A5-58			
Hedges, J.	Ecology	H0-57			
Henry, G.	ODE				

~~Administrative Record~~ ~~EDMC~~ ~~H6-08~~

\*w/Attachments

## Tri-Party Agreement Milestone Review

June 22, 2004



### **Complete Remedial Actions (River Corridor Project portion of M-016)**

Start: 10:05 a.m.

End: 10:25 a.m.

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

- Completed backfill of 100 B/C pipelines (M-016-26F) more than nine months ahead of schedule.
- Issued 300 Area East Side remediation RFP in May 2004; bids due June 11, 2004.
- Completed preparation of 618-7 Burial Ground field work investigation options.
- Successfully completed bench-scale testing of an alternate treatment formula for 183-H Solar Basin waste. EPA was requested to approve this less costly approach for 4,700 drums of precipitated crystals (20% to 30% cheaper than the current practice).
- Completed H Reactor gas wing explosive demolition.

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

**Note: The Hanford Site Contractors have not been directed to perform M-016-63. RL and the regulators are scheduled to meet June 25, 2004, to discuss the M-016-63 and M-094-01 milestones for the 300 Area.**

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

Start: 10:25 a.m.

End: 10:37 a.m.

Significant progress continues to be made in the key deactivation areas of fuel offload and sodium drain. Workscope continues to be accomplished on or ahead of schedule.

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: 10:24 a.m.

End: 10:35 a.m.

RL and Ecology continued their discussions on the proposed modification to the completion date for Tri-Party Agreement M-089-00 Major Milestone (October 31, 2005 to September 30, 2010). This modification aligns the closure of the 324 REC mixed waste units with the completion of the disposition (including demolition) of the 324 Building under Tri-Party Agreement Milestone Interim Milestone M-094-03. Meetings continued with Ecology to facilitate their review of the

324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan (DOE/RL-96-73).

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)**

Start: 10:42 a.m.

End: 10:47 a.m.

Activities are on or ahead of schedule. It was noted that the Tri-Party Agreement Interim Milestone M-092-10 mirrored the Tri-Party Agreement Target Date M-081-10-T01 in that the required Sodium Disposition Evaluation Report will be produced as one document and meet both the Interim as well as the Tri-Party Agreement Target Date.

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)**

Start: 10:47 a.m.

End: 10:51 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. RL has directed BHI to include this workscope in their FY 2005/FY 2006 Detailed Work Plan (DWP). RL continued activities to pursue the River Corridor Contract award. RL and the regulators are scheduled to meet June 25, 2004, to discuss the M-094-01 and M-016-63 milestones for the 300 Area.

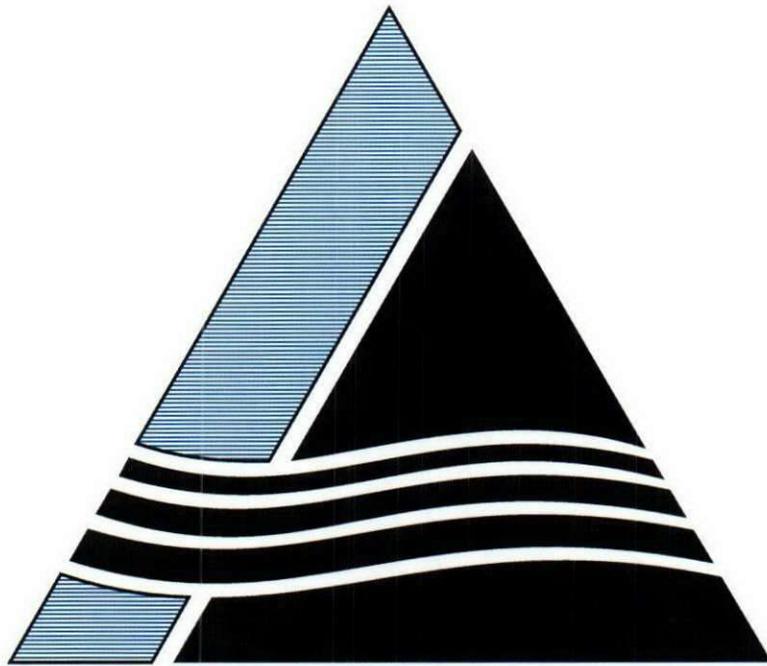
**At the present time, the performance of the M-094 workscope has not been assigned to a Hanford Site Contractor to perform.**



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 22, 2004

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# **ENVIRONMENTAL RESTORATION PROJECT**

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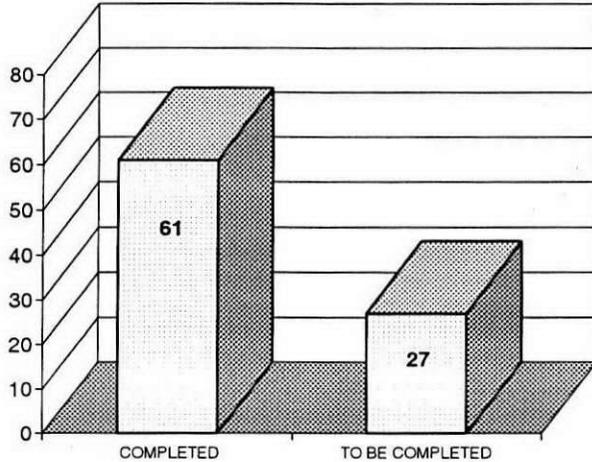
### **RIVER CORRIDOR**

- River Corridor Milestone Statistics
- River Corridor FY04 Milestone Status
- River Corridor Milestone Schedule
- River Corridor Change Requests
- River Corridor Project Status / Accomplishments
- River Corridor Issues
- River Corridor FY04 PBS Performance Summary

### **INTEGRATION ISSUES**

**ENVIRONMENTAL RESTORATION PROJECT**

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



	Compliance Due Date	To Be Completed as of 05/31/2004	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>18</b>	<i>M-16-03H (C)</i>	<b>06/30/04</b>	M-16-61	12/31/08			
			<i>M-16-26E (C)</i>	<b>09/30/04</b>	M-16-52	07/31/09			
			<i>M-16-26F (C)</i>	<b>02/28/05</b>	M-16-51	12/31/10			
			M-16-48	07/31/05	M-16-47	12/31/11			
			M-16-46	07/31/06	M-16-53	12/31/12			
			M-16-45	12/31/06	M-16-55	12/31/12			
			M-16-60	12/31/06	M-16-62	12/31/12			
			M-16-50	07/31/07	M-16-00A	12/31/12			
			M-16-54	07/31/08	M-16-00B	09/30/18			
			M-16-49	12/31/08	M-16-03I	TBD			
			M-16-56	12/31/08					
			<b>M-93-00</b> Reactors on River Final Disposition	<b>TBD</b> (M-93-00)	<b>9</b>	<i>M-93-11 (C)</i>	<b>09/30/04</b>	M-93-24	09/30/06
						M-93-17	12/31/04	M-93-19	09/30/09
M-93-25	09/30/05	M-93-22				09/30/11			
M-93-18	12/31/05	M-93-20				09/30/12			
M-93-23	07/31/06	M-93-00				TBD			
<b>MILESTONES TO BE COMPLETED</b>		<b>27</b>	<b>4</b> ---	<b>MILESTONES COMPLETED IN FY04 (C)</b>					

**Milestones Removed from Above Table**

<b>M-16-00</b> Remedial Action	<b>2</b>	M-16-63	09/30/04	Not in ERC contract scope.
		M-16-64	09/30/10	Not in ERC contract scope.

**ENVIRONMENTAL RESTORATION PROJECT**  
**ERC RIVER CORRIDOR**  
**FY 2004 TPA MILESTONE SUMMARY**  
(Major & Interim Milestones)

*Status as of: May 31, 2004*

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecoverable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
0041	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	02/19/2004 (A)	X						
0041	M-16-26E	Complete Excavation and Removal of 100 B/C Process Effluent Pipelines	09/30/2004	11/05/2003 (A)	X						
0041	M-93-11	Complete 105-F Reactor Interim Safe Storage	09/30/2004	01/15/2004 (A)	X						
	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	09/30/2004								
<b>Total FY 2004 ERC 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>

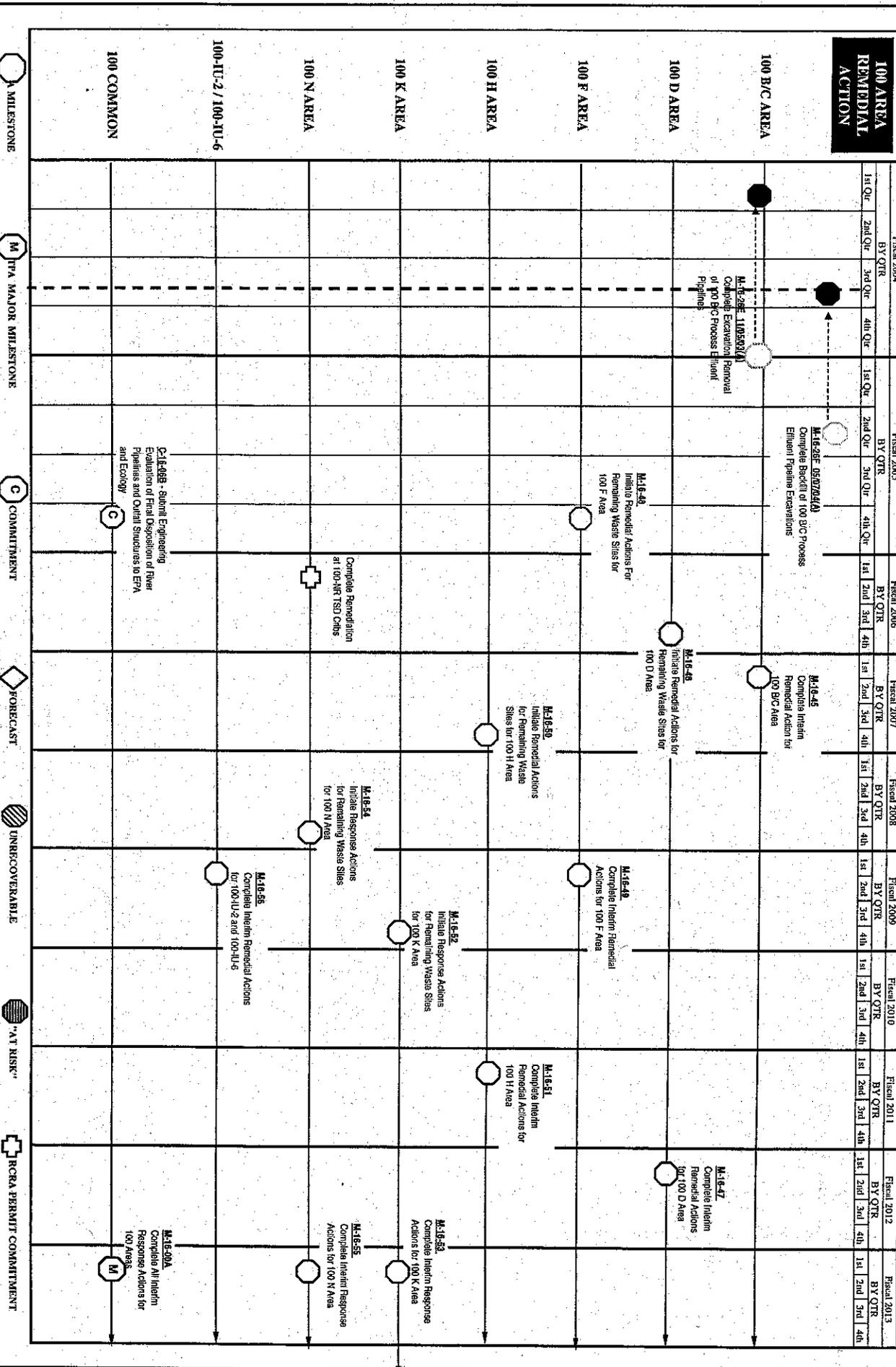
\* M-16-63 scope is not in ERC contract; it will be included within the new River Corridor contract. RL is addressing this milestone with the regulators.

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

*Status as of: May 31, 2004*

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecoverable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
0041	M-93-17	Complete 105-D Reactor Interim Safe Storage	12/31/2004	09/30/2004 (F)			X				
0041	M-16-26F	Complete Backfill of 100 B/C Process Effluent Pipeline Excavations	02/28/2005	05/07/2004 (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					X			
<b>Total FY 2005 ERC River Corridor TPA Milestones</b>			<b>4</b>		<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>

Richland Environmental Restoration Project  
 TPA Milestone Summary Schedule -- RIVER CORRIDOR



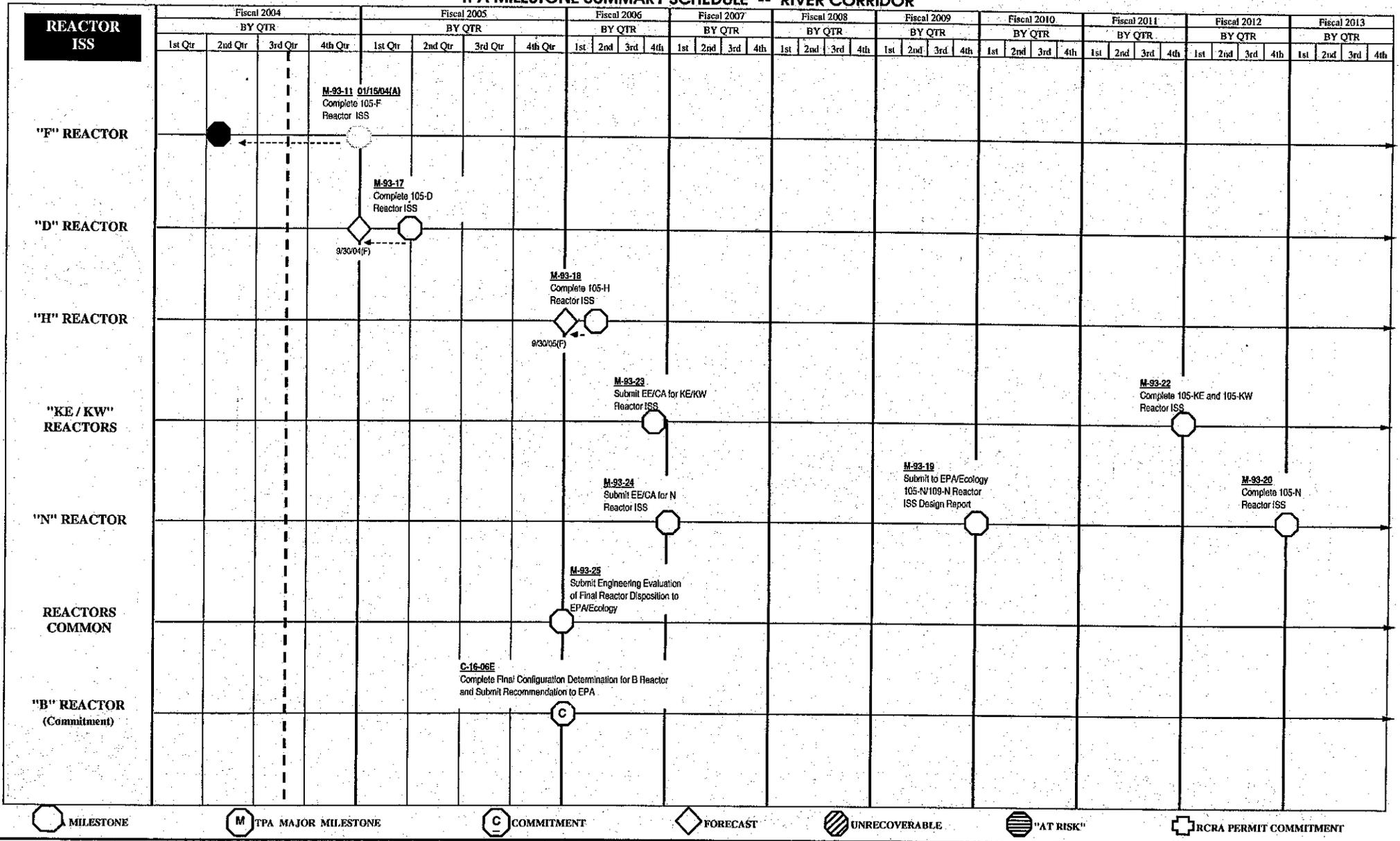
○ MILESTONE      M TPA MAJOR MILESTONE      ⊕ COMMITMENT      ◇ FORECAST      ⊗ UNRECOVERABLE      ⊕ "AT RISK"      ⊕ RCRA PERMIT COMMITMENT

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

## **ERC RIVER CORRIDOR TPA CHANGE REQUESTS (April - May 2004)**

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There were no ERC River Corridor change requests approved during April - May 2004.

## ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

### Remedial Action (M-16-26F, M-16-48, M-16-52, M-16-60)

- Completed backfill of 100 B/C pipelines on May 7, satisfying TPA Milestone M-16-26F (due 2/28/05), more than nine months ahead of schedule.
- Completed regrade for 100 B/C Pit 24 in support of B/C pipeline subcontract demobilization.
- Completed overburden removal from 118-B-3 Burial Ground in April. Also, completed backfill of four 100 B/C Area Burial Grounds (118-B-4, -B5, -B10, -C2).



Sampling Tritium Tubes from 118-B-1 Burial Ground

- Continued remediation, sorting, and loadout activities at 118-B-1 Burial Ground.
- Prepared sampling strategy for 116-C-3 Chemical Waste Tanks.
- Completed sampling for 100 D Area chromium investigation. Results are not at levels that could be contributing to the elevated groundwater concentrations. Digging of three additional test pits is planned for July.



116-K-2 Mile Long Trench Remediation

- Continued remediation of 116-K-2 Mile Long Trench and process pipelines.
- Awarded contract for 116-N-1 Crib remediation in April.

- Received RL/regulator approval and issued 100 Area Remaining Sites and 300-FF-2 Operable Unit Explanation of Significant Difference.
- Issued 300 Area East Side remediation RFP in May. Bids are due June 11.
- Completed preparation of 618-7 Burial Ground field investigation options in May.
- Issued twelve Rev. 0 CVPs through May.

### Waste Operations (M-16-03I)

#### ERDF Operations/Transportation:

- Successfully completed bench-scale testing of an alternate treatment formula for 183-H Solar Basin waste. Requesting EPA approval to incorporate this less costly approach for 4,700 drums of precipitated crystals.
- Completed Value Engineering study for treatment/disposal options of low-level fraction of waste from FH's TRU Retrieval Project. Design and procurement initiated for macro-encapsulation in fabricated grout vaults within ERDF.
- Held kickoff meeting with FH to initiate ERDF waste disposal of 300 Area uranium fuel.
- Received and disposed of the final major shipments of demolition debris from 233-S.
- Through May, a total of 4,825,194 tons of waste have been disposed in ERDF since operations began in July 1996; 307,429 tons disposed in FY04.

#### ERDF Cells 5/6 Expansion Project:

- Continued admix production and placement in ERDF Cells 5/6. Through May, 104,084 tons of admix have been placed (73% complete).



ERDF Cell 6 Admix and Secondary Geomembrane Placement

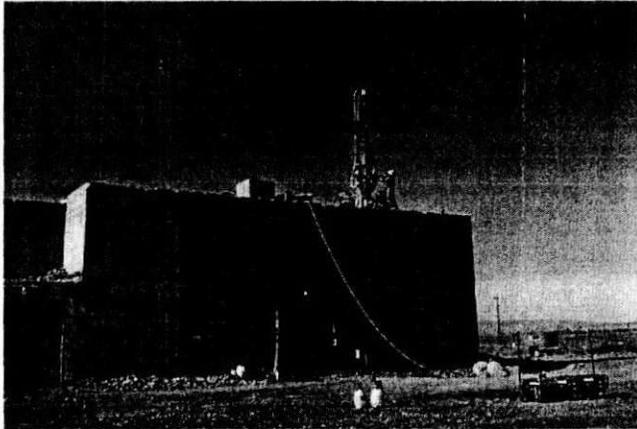
- Completed lysimeter installation in May.
- Completed initial liner placement in Cell 6 in May.
- Producing gravel at Pit 30 to be used for drainage layer. Gravel is being conveyed and stockpiled near Cells 5/6.

## ERC RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

### Facilities Decommissioning (M-93-17, M-93-18)

#### H Reactor:

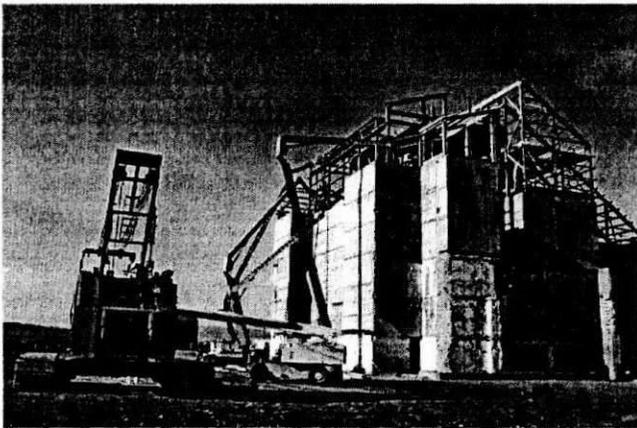
- Awarded SSE design/construction contract in May. Pre-design kickoff meeting scheduled for June 8.
- Commenced hole drilling in preparation of gas wing explosive demolition scheduled for June 18-19.



Drilling in Preparation of H Reactor Gas Wing Explosive Demolition

#### D Reactor:

- Continuing SSE roof construction (through May, D Reactor ISS is 95% complete).



D Reactor SSE Roof Installation

#### 190-DR Facility:

- Initiated asbestos removal on April 30.

#### B Reactor:

- Updated 2003 Draft B EE/CA; cost estimates will also be revised to reflect current dollar values. Planned for internal review by 6/16/04.

#### 1304-N Emergency Dump Tank (EDT) / 1300-N Basin (EDB):

- Completed EDT demolition/loadout activities in April.
- Shipped ~35,000 gallons of potentially contaminated rainwater removed from EDB to ETF. Began liner removal.
- Completed soil excavation from south and west sides of EDB down 6' to basin concrete footing.
- Completed asbestos abatement of 30" raw water pipe mastic.



Dewatering of 1300-N Emergency Dump Basin

### Risk Assessment and Site Closure

#### 100/300 Area:

- Prepared and submitted draft General Work Plan for the River Corridor Baseline Risk Assessment to RL in May for review.
- Completed all scheduled river shore radiation (gamma) surveys along reactor shoreline areas (100 D/H and 300 Areas) including 100 K cemetery.
- Presented update to Trustees on May 12. Topics discussed included: General Work Plan, Web site, shoreline radiation surveys, and compilation of historical data.

#### 100 B/C Pilot:

- Completed Round 1 sampling and draft Data Summary for 2003; commenced Round 2 sampling.

#### Columbia River Component:

- Completed draft Basis & Assumptions (B&A) public comment period on May 19. RL/regulators approved B&A in late May.
- Met with Nez Perce and Umatilla to discuss B&A, as well as risk assessment methods.

#### Closure Activities:

- Completed lead sheath cable SAP and Waste Control Plan; ready to initiate sampling.

## **ERC RIVER CORRIDOR ISSUES**

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There are no ERC River Corridor issues at this time.

# ERC RIVER CORRIDOR PERFORMANCE SUMMARY

## RIVER CORRIDOR

### FY 2004 ERC PBS PERFORMANCE SUMMARY FYTD MAY 2004 (\$K)

	FY04 DWP BCWS	CURRENT BCWS	EAC	FYTD			FYTD SCHEDULE VAR			FYTD COST VAR		
				BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI
<b>RA</b>	32,590	42,476	37,387	26,218	26,149	21,801	-69	-0.3%	1.00	4,348	16.6%	1.20
<b>WASTE</b>	33,793	38,588	39,130	25,868	23,671	23,432	-2,197	-8.5%	0.92	239	1.0%	1.01
FDP-0041	23,052	26,122	24,993	16,386	16,184	14,930	-202	-1.2%	0.99	1,254	7.7%	1.08
FDP-0040	62	62	61	10	15	9	5	50.0%	1.50	6	40.0%	1.67
<b>FDP Total</b>	23,114	26,184	25,054	16,396	16,199	14,939	-197	-1.2%	0.99	1,260	7.8%	1.08
<b>RISK</b>	2,170	3,749	3,564	2,489	2,582	2,273	93	3.7%	1.04	309	12.0%	1.14
<b>PMS</b>	28,333	31,313	26,393	19,529	19,555	15,878	26	0.1%	1.00	3,677	18.8%	1.23
<b>ERC TOTAL</b>	<b>120,000</b>	<b>142,310</b>	<b>131,528</b>	<b>90,500</b>	<b>88,156</b>	<b>78,323</b>	<b>-2,344</b>	<b>-2.6%</b>	<b>0.97</b>	<b>9,833</b>	<b>11.2%</b>	<b>1.13</b>

#### Schedule Variance Summary:

Through May, the ER Project is \$2.3M (-2.6%) behind schedule. The negative schedule variance is attributed to ERDF expansion behind schedule due to inclement weather and recurring pugmill equipment failures. Pugmill has been changed out; schedule expected to be recovered by fiscal year-end.

#### Cost Variance Summary:

At the end of May, the ER Project had performed \$88.2M worth of work, at a cost of \$78.3M. This results in a favorable cost variance of \$9.8M (+11.2%). The positive cost variance is attributed to 300 Area backfill/regrade subcontract award less than plan; favorable settlement for previous site subcontract litigation; prior-year rebill accounting adjustments; reduction of estimated performance fee.

## **INTEGRATION ISSUES**

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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 and  
Related M-20-29B Milestone**

**6/04 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	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

**6/04 Status of FFTF Deactivation  
TPA M-81-00 Milestones and  
Related M-20-29B Milestone  
(Continued)**

<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

(6/04)

- **M-81-00A-T03, Complete Transfer of Irradiated Fuel (Due: 3/31/09)**
  - Funding was provided to TransNuclear, Inc. for fabrication of the first 10 of 22 ISCs needed to complete fuel offload
  - 57 of 57 fuel assemblies have been transferred from FSF to IDS to expedite offload activities when additional casks are available
  - Preparations are complete for special fuel (MFF-1) disassembly
    - Completed staging of disassembly equipment in the IEM Cell
    - Initiated disassembly
  - Completed 400 Area preps for sending 22 ISCs from the 400 Area ISA to the 200 Area ISA
    - Transfer of the first 7 of 22 loaded interim storage casks from the 400 area interim storage area (ISA) to the 200 Area ISA at the Canister Storage Building has been completed

# Significant Accomplishments

(6/04, Continued)

- **M-81-00A-T04, Complete Transfer of Special Fuel to INEEL (Due 3/31/09)**
  - A change in 10 CFR 71 has prompted the preparation of a white-paper to address the changes to the T-3 SARP amendment. Draft is in review
  - Proceeding with plans to store this fuel in ISCs at the 200 Area ISA prior to shipment to INEEL or possible direct shipment to the repository at Yucca mountain
- **M-81-00A-T05, Complete Auxiliary Plant Systems Shutdown (Due 2/28/11)**
  - Completed the removal of PBC transformer (X-100). This completes the planned PCB transformer removal for this fiscal year.
- **M-81-11, Submit FFTF End Point Criteria Document (Due 8/31/05)**
  - A draft Table of Contents (TOC) was provided to Ecology on 3/11/04 for review and comment.
  - Tentative agreement from Ecology was reached at the 5/13/04 FFTF Project Managers Meeting on the draft TOC.

# Significant Accomplishments

(6/04, Continued)

- **M-81-13, Complete Reactor and Heat Transport System Sodium Drain (Due: 6/30/05)**
  - Piping modification package for FSF NaK drain has been approved and shop work to prefabricate piping components has begun
  - Preparation for sodium flush of the two in-containment NaK loops continues. Mechanical installation of primary cold trap and IDS NaK loop cross connects is complete and loops have been refilled.
  - Reheating of the primary sodium drain system is nearing completion
  - The procedure for lowering the reactor vessel sodium level and then draining the three loops has been drafted and is out for review/approval
  - Long lead material (large diameter tubing) for the pump assembly has been received

## Significant Planned Actions (Next Six Months)

- **Fuel Offload**

- Complete MFF-1 disassembly in the IEM Cell
- Complete transfer of the 22 ISCs stored in the 400 Area ISA to the 200 Area ISA
- Resume fuel offload in 6/04 following receipt of 5 ISCs back from PFP
- Receive 5 ISCs in 9/04 and 5 additional casks in 10/04 from the new procurement activity.

- **Sodium Drain**

- Complete design review and initiate fabrication of the reactor drain pump assembly for reactor vessel installation
- Complete installation of the pipe spools for the NaK cross-connects and complete flush of the in-containment NaK loops
- Complete drain of the FSF NaK system
- Complete drain of the primary sodium loops and lowering the sodium level in the reactor vessel

# Significant Planned Actions (Next Six Months)

- **Auxiliary Systems Shutdown**
  - Secure trace heat following drain of the primary sodium and NaK systems
  - Planned removal of PCB transformers is complete for the fiscal year

## **Project Issues/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 all milestones agreed to by the Tri-Party agencies in 5/03

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

(Status through April 2004 month end)

Fast Flux Test Facility Closure Project	Budgeted Cost of Work Scheduled (BCWS)	Budgeted Cost of Work Performed (BCWP)	Actual Cost of Work Performed (ACWP)	Schedule Variance (SV)	Schedule Variance %	Cost Variance (CV)	Cost Variance %	FY Budget at Completion (BAC)
RL-0042: Fast Flux Test Facility	\$28,315	\$25,626	\$25,402	(\$2,689)	-9.5%	\$224	0.9%	\$43,842

## Schedule Variance Analysis (-\$2.7M):

The unfavorable schedule progress is due to less-critical maintenance activities being deferred to allow resources to be applied to deactivation activities. Other significant contributors include suspension of Radial Reflector Shipping Container procurement, reduction in budgeted fee, and timing of the ISC procurement contract.

## Cost Variance Analysis (\$0.2M):

The cost variance is primarily due to controlled spending in the surveillance and maintenance area, and efficiency in performance of fuel offload activities..



# **Tri-Party Agreement Milestone M-89-00**

## **324 Building Closure of Mixed Waste Units**

June 22, 2004  
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 and remained in minimum safe operations mode, with preventive and corrective maintenance activities continuing as required to maintain compliance with safety basis and regulatory requirements

## **Schedule – Good**

- The 324 Facility continued to be maintained in minimum safe operation mode, in compliance with regulatory requirements and the Documented Safety Analysis (DSA), Basis for Interim Operation (BIO), and Technical Safety Requirements (TSR). Containers with size reduced equipment continued to be staged in A-Cell, awaiting future shipment



# Significant Accomplishments

Since Last Quarterly Review

## M-89-00

- Continued to safely maintain 324 Facility in minimum safe operations mode and performed preventive/corrective maintenance and surveillance activities consistent with facility safety basis and regulatory requirements
- Continued interactions with Ecology regarding TPA Change Control Form M-89-04-01, which will change the M-89-00 completion date from 10/31/2005 to 9/30/2010 to align the closure of the 324 Building REC mixed waste units in parallel with the complete disposition (including demolition) of the 324 Building by 9/30/2010 under TPA Milestone M-094-03. Ecology provided additional comments and clarifications, which are being addressed. Change form M-89-04-01 is consistent with the 12/18/02 Ecology approval letter for the Amendment to the *324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan* (DOE/RL-96-73, Revision 1)
- Continued workshop meetings with Ecology to facilitate Ecology review and comment activities regarding revision of the *324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Closure Plan* (DOE/RL-96-73). The closure plan revision reflects the removal actions summarized in Table 6-1A of the closure plan amendment addressed in the 12/18/02 Ecology approval letter for the Amendment to the closure plan
- Continued procurement activities for the 324 Building Radiochemical Engineering Cells Liquid Waste Handling System (LWHS) skid for limited use in the future for water evaporation to support REC closure activities as appropriate for decontamination activities involving the use of water. Fabrication and assembly of the LWHS is nearing completion at the manufacturer (AVANTech)



# Significant Planned Actions

Next Six 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 and regulatory requirements
- Resolve and incorporate Ecology comments for the M-89-04-01 Change Control Form and obtain Tri-Party approvals
- Complete workshop sessions with Ecology for the revision of the 324 Building Radiochemical Engineering Cells closure plan
- Complete factory acceptance testing and delivery of the 324 Building Liquid Waste Handling System equipment to the site



# Project Summary

- The 324 Facility will continue to maintain minimum safe operations mode and conduct preventive/corrective maintenance and surveillance activities 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**

June 22, 2004  
Tri-Party Agreement  
Quarterly Milestone Review

Ecology Program Manager – FW Bond  
DOE-RL Program Manager – KD Baszell  
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.	12/31/2009	CP/WM Quarterly
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 <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.	12/31/2001	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	On 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	On Schedule

# 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.	9/30/2004	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.	9/30/2006	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

# Program Manager's Assessment (cont'd)

since last quarterly review

- **Schedule - Good**

- **MX-92-06-T02**

- No activities are planned for the next six months

- **M-92-09 and M-92-10**

- No activities are planned for the next six months

- **MX-92-11-T01**

- On schedule. Cleaning of residual sodium from 337B Composite Reactor Component Test Activity (CRCTA) vessel is complete and the vessel is being rinsed

- **M-92-16**

- On schedule. No further Special Case Waste (SCW) packaging/shipment activities planned at 327 Building at this time

# Significant Planned Actions

next six months

- **MX-92-06-T02**

- Revise existing Safety Analysis Report for Packaging (SARP) to allow on-site shipment of remaining 825 metric tons of 300 Area uranium fuel assemblies. SARP revision activities are planned to begin by 7/01/04

- **MX-92-11-T01**

- Place contract for disposition of the 337B sodium cold trap. Miscellaneous other small sodium containing components will be sent to Sandia National Laboratory or disposed

## **M-92-16**

- On schedule. No further Special Case Waste packaging/shipping activities planned at 327 Building at this time

# Project Summary

- **M-92-01:** Covered in CP/WM Quarterly Milestone Review
- **M-92-05:** Covered in CP/WM Quarterly Milestone Review
- **MX-92-06-T02:** On schedule
- **M-92-09:** On schedule
- **M-92-10:** On schedule
- **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-92-16:** On schedule. No further Special Case Waste activities planned at 327 Building at this time



# Disposition of the 300 Area Surplus Facilities

Tri-Party Agreement  
M-094-00 Series Milestones



# 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	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 (September 30, 2018). (Per change M-94-03-01)	9/30/2004
M-94-02	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)	7/30/2002
M-094-03	Complete disposition of the following surplus facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327	9/30/2010
M-094-04	See M-094-01	See M-094-01



# Project Summary

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- The M-094 series milestones address the disposition of the 300 Area Surplus Facilities and will be part of the new River Corridor Contract work scope. Subject activities are presently being planned during the BHI FY 2005/2006 Detailed Work Plan (DWP) development process
- RL continued activities to pursue establishing the River Corridor Contract
- M-094-01: RL is continuing interactions with Ecology and EPA regarding meeting the milestone M-094-01 deliverable, which is due 9/30/2004