

**River Corridor/FFTF Tri-Party Agreement Milestone Review
Meeting Minutes
December 13, 2005**

0068647

Approval: *J. Hedges* Date: 1/24/06
J. Hedges (H0-57)
Ecology IAMIT Representative

Approval: *M. S. McCormick* Date: 2/2/06
M. S. McCormick (A5-11)
BOE IAMIT Representative

Approval: *J. E. Rasmussen* Date: 1/26/06
J. E. Rasmussen (H6-60)
ORP IAMIT Representative

Approval: *N. Ceto* Date: 24 JAN 06
N. Ceto (B1-46)
EPA IAMIT Representative, Chairperson

Minutes Prepared by:

Approval: *Lori Crass* Date: 1/24/06
Lori Crass (H8-12)
Fluor Hanford, Inc.

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EDMC

Almquist, R. S.	RL	A3-04	Guercia, R. F.	RL	A3-04
Aromi, E. S.	CHG	H6-08	Harris, S.	CTUIR*	
Bartus, D.	EPA	H0-57	Hebdon, J. B.	RL	A5-15
Bazzell, K. D.	RL	A3-04	Hedges, J.	Ecology	H0-57
Bond, R.	Ecology	H0-57	Henry, D.	OOE*	
Bohnee, G.	NPT		Horst, L.	OOE*	
Boyd, A.	Ecology	B1-46	Jackson, D. E.	RL	A4-52
Brown, M.	Ecology	H0-57	Jackson, G. W.	FH	H5-20
Butler, D. H.	WCH	H0-19*	Jim, R.	Yakama*	
Buxbaum, M. E.	FH	B3-53	Langstaff, D.	RL	A4-70
Ceto, N.	EPA	B1-46	LaRue, D.	WCH	H0-20
Chapin, D.	RL	A3-04	McCormick, M. S.	RL	A5-11
Cimon, S.	ODE		Morrison, R. D.	FH	H8-12*
Clark, C. E.	RL	A5-15	Niles, K.	OOE*	
Cusack, L.	Ecology	H0-57*	Pettiette, P. L.	WCH	H0-21
Dusek, L. G.	FH	R3-62	Piippo, R. E.	FH	H8-12*
Einen, D.	EPA	B1-46	Price, J.	Ecology	H0-57
Erickson, L.	RL	A3-04	Rasmussen, J. E.	ORP	H6-60
Evans, D. T.	RL	A3-04	Skinnarland, E. R.	Ecology	H0-57
Farabee, A.	RL	A3-04	Walsh, J. L.	WCH	H0-20
Faulk, D. A.	EPA	B5-01	Wilson, M. A.	Ecology	H0-57
Fogwell, T. W.	FH	E6-35	Wolf, A.	CTUIR	
Fox, M. B.	WCH	H0-20	Administrative Record	EDMC	H6-08*
Fritz, L. L.	FH	H8-12	<i>*w/Attachment</i>		
Gadbois, L. E.	EPA	B1-46			
Gallagher, R. G.	FH	H5-20			

**River Corridor/FFTF Tri-Party Agreement Milestone Review
Meeting Minutes
December 13, 2005**

It was announced that Jane Hedges will become the Ecology Nuclear Waste Program Manager replacing Mike Wilson effective January 3, 2006.

Complete Remedial Actions

(River Corridor Project portion of M-016/M-089/M-092-12/M-092-16/M-093/M-094)

Start: 10:05 a.m.

End: 10:30 a.m.

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

- Completed demolition and loadout of the 183-KW Chlorine Vault.
- Completed hazmat removal and application of fixative in the 314/314B complex.
- Completed H Reactor ISS.
- Completed loadout of 618-8 Burial Ground stockpiled materials (excluding trench).
- Continued loadout from 118-B trenches; initiated "hot particle" controls at Trench 23 and 118-C-1.
- Completed pre-qualification of bidders for ERDF Disposal Operations subcontract RFP.
- Completed shoreline conductivity surveys.

M-16-63 and M-94-01 milestone submittals will be met by the required 12/31/2005 due date.

M-89-00 is currently in dispute and progressing at the RL/Regulator Project Manager level. The Closure Plan is tentatively scheduled to begin public comment on January 3, 2006. Once the public comment period is complete the M-89-00 completion date will be revised to 9/30/2010 to realign with M-94-03.

Regarding the subcontracting of work on the small arms range, L. Gadbois expressed a concern that if this work is delayed, safety issues may arise. WCH agreed to evaluate commencing this work early.

Regarding the fourth bullet on page 8 of the presentation, Dennis Faulk stated that the 100-C-7 is a discovery site and removal of the waste site from milestone M-16-45 is an issue for the EPA. Dennis stated that this waste site might not even be part of the milestone as it wasn't discovered until after the milestone was established. Additionally, he stated that we should look at additional work at B/C (e.g., treatment, etc.) still needed to be performed to determine if the milestone should be moved out.

Nick Ceto stated that air monitoring is important for work performed in the 300 Area. As work cranks up we need to be on top of air monitoring (specifically the high volume air samples). Work on 313 is a good example of correct air monitoring.

Action: Mike Fox to provide EPA and Ecology with how many tons were taken to ERDF in Calendar Year 2005.

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

Start: 10:31 a.m.

End: 10:45 a.m.

Significant progress continues to be made in the key deactivation areas. All milestones are complete or on schedule.

Accomplishments include completing wash and transfer of 35 assemblies (5 interim storage casks), disassembly of multi-duct assemblies SRF-3 and SRF-4, and fabrication of all interim storage casks required to complete fuel transfer activities.

M-81-14-T02 *Initiate Interim Decay Storage Vessel Sodium Drain* is scheduled for completion September 2006. This is the last sodium vessel in FFTF. When the IDS drain is complete residuals will be evaluated. At that time a decision will be made as to if we can declare M-081-14 complete.

Primary issue: T-3 cask SARP addendum was disapproved by HQ. The T3 cask is used to ship sodium bonded fuel to Idaho. The current SARP has a limitation of 18 pins, 200 grams of sodium. This limitation means that 70 shipments would be necessary. An addendum was submitted to change the 18 pins limitation to contain a full FFTF assembly. This would result in a need for 12 shipments. A white paper rebutting the HQ decision was provided to HQ; discussions with HQ are ongoing in an attempt to resolve differences.

Al Farabee reported on the Alert Level on Site – Fireball (ignition event, not an explosion). Actions included: 1) recovery from incident, 2) insuring safe condition, and 3) recovery plan approval by DOE. A presentation was developed and sent to Rick Bond.

Action: Al Farabee to send presentation to Ceto, Cusack, and Hedges.

ATTENDEES

TPA MILESTONE REVIEW

DATE: DEC 13, 2005

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>(✓) FOR ATTACHMENTS</u>
<u>RON MORRISON</u>	<u>FH/TPAE</u>	<u>H8-12</u>	<u>✓</u>
<u>ROB PIPPO</u>	<u>FH</u>		<u>✓</u>
<u>DEEPA HARUE</u>	<u>WCH</u>		
<u>JANE HEDGES</u>	<u>ECOLOGY</u>		
<u>PAT PETTICETTE</u>	<u>WCH</u>		
<u>JIM BUTLER</u>	<u>WCH</u>		<u>✓</u>
<u>KEVIN BARZEN</u>	<u>DOE</u>		
<u>DAVE EVANS</u>	<u>DOE</u>		
<u>MIKE FOX</u>	<u>WCH</u>		
<u>LARRY GADBOIS</u>	<u>EPA</u>		
<u>NICK CUB</u>	<u>EPA</u>		
<u>JIM RASMUSSEN</u>	<u>DOE-GRP</u>		
<u>LAURA CUSACK</u>	<u>ECOLOGY</u>		<u>✓</u>
<u>AL FARABEE</u>	<u>DOE-FFIT</u>		
<u>DONG CHAPMAN</u>	<u>DOE-RL/FFIT</u>		

River Corridor Closure Project

TPA Quarterly Review

For period: September – November 2005



Tri-Party Agreement

River Corridor Milestones:

M-16	M-92-16
M-89	M-93
M-92-12	M-94

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

December 13, 2005

TABLE OF CONTENTS

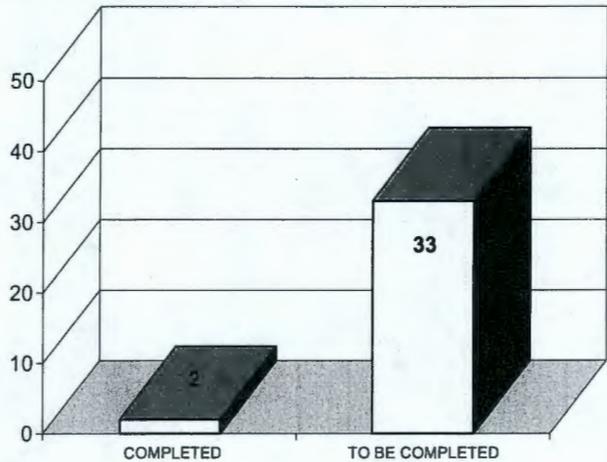
RIVER CORRIDOR

- River Corridor Milestone Statistics
- River Corridor FY06-07 Milestone Status
- River Corridor Milestone Schedule
- River Corridor Change Requests
- River Corridor Project Status / Accomplishments
- River Corridor Issues
- River Corridor Performance Summary

INTEGRATION ISSUES

RIVER CORRIDOR CLOSURE PROJECT

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



	Compliance Due Date	To Be Completed as of 11/30/2005	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date			
M-16 Remedial Design / Remedial Action Risk Assessment	9/30/2018 (M-16-00B)	23	<i>M-16-70 (C)</i>	<i>10/30/05</i>	M-16-61	12/31/08			
			M-16-63	12/31/05	M-16-58	04/30/09			
			M-16-46	07/31/06	M-16-52	07/31/09			
			M-16-45	12/31/06	M-16-64	09/30/10			
			M-16-60	12/31/06	M-16-51	12/31/10			
			M-16-67	03/31/07	M-16-47	12/31/11			
			M-16-57	04/30/07	M-16-53	12/31/12			
			M-16-72	06/30/07	M-16-55	12/31/12			
			M-16-50	07/31/07	M-16-62	12/31/12			
			M-16-54	07/31/08	M-16-00A	12/31/12			
			M-16-49	12/31/08	M-16-69	09/30/15			
			M-16-56	12/31/08	M-16-00B	09/30/18			
			M-93 Reactors on River Final Disposition	TBD (M-93-00)	5	<i>M-93-18 (C)</i>	<i>12/31/05</i>	M-93-22	09/30/11
						M-93-23	07/31/06	M-93-20	09/30/12
						M-93-19	09/30/09	M-93-00	TBD
M-89 Closure of 324 Bldg Non-Permitted Mixed Waste Units	10/31/2005* (M-89-00)	1	M-89-00	10/31/05					
M-94 300 Area Surplus Facilities Demolition	9/30/2010 (M-94-03)	4	M-94-01	12/31/05	M-94-03	09/30/10			
			M-94-05	09/30/06	M-94-00	09/30/15			
Milestones to be Completed		33	2 --- MILESTONES COMPLETED IN FY06 (C)						

*M-89-00 is currently in dispute and is progressing at the RL/regulator project manager level. (Dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05.)

Will also support the following two milestones (which are shared with Fluor Hanford)						
M-92 300 Area Special Case Waste	9/30/2006	2	M-92-12	09/30/06		
			M-92-16	09/30/06		

RIVER CORRIDOR CLOSURE PROJECT

**RIVER CORRIDOR
FY 2006 TPA MILESTONE SUMMARY**

Status as of: November 30, 2005

Project	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
ESFC	M-16-70	Begin Sampling to Support the 100 Area and 300 Area Component of River Corridor Baseline Risk Assessment	10/30/2005	10/13/2005 (A)	X						
D4	M-89-00*	Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault	10/31/2005	09/30/2010 (F)						X	
ISS	M-93-18	Complete 105-H Reactor Interim Safe Storage	12/31/2005	10/20/2005 (A)	X						
FR	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					X			
D4	M-94-01	Submit a Schedule and TPA Milestones to Complete Disposition of the Surplus Facilities in the 300 Area	12/31/2005					X			
FR	M-16-46	Initiate Remedial Actions for Remaining Waste Sites for 100-D Area	07/31/2006					X			
ISS	M-93-23	Submit EE/CA for KE/KW Reactor ISS	07/31/2006	02/28/2006 (F)			X				
D4	M-94-05	Complete Deactivation, Decontamination, Decommissioning, and Demolition of 313 and 314 Facilities	09/30/2006	02/03/2006 (F)			X				
D4	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 Special Case Waste	09/30/2006								
D4	M-92-16***	Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste (SCW) Waste and Materials	09/30/2006								
Total FY 2006 River Corridor TPA Milestones			8		2	0	2	3	0	1	0-

*M-89-00 is currently in dispute and is progressing at the RL/regulator project manager level. (Dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05.) Closure plan to go through public comment; proposing compliance date be revised to 9/30/2010 to realign with M-94-03.

**M-92-12 - Milestone shared with Fluor Hanford. At this time there are no additional facilities identified as needed to store 300 Area SCW.

***M-92-16 - Milestone shared with Fluor Hanford. 327 building SCW is expected to be removed by 3/30/06. The last SCW item is in the 340 facility, which is presently under Fluor Hanford's control.

**RIVER CORRIDOR
FY 2007 TPA MILESTONE SUMMARY**

Status as of: November 30, 2005

Project	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecov erable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
FR	M-16-45	Complete Interim Remedial Action for 100-B/C Area	12/31/2006					X			
FR	M-16-60	Complete Interim Remedial Actions for at Least 3 of the Following High Environmental Priority 300-FF-2 Waste Sites (316-4, 618-2, 618-3, 618-5, 618-7) and Complete Confirmatory Sampling of 300-FF-2 Candidate Sites 300-7 and 300-9	12/31/2006					X			
FR	M-16-67	Submit a Technology Development Summary Report for Phases I, II, and III, an Intermediate Design Report, a Remediation Schedule, and a Treatability Investigation Work Plan for Remedial Actions at 618-10 and 618-11 Burial Grounds	03/31/2007					X			
FR	M-16-57*	Initiate Soil Remediation at K-East Basin	04/30/2007					X			
ESFC	M-16-72	Submit Draft 100 Area and 300 Area Component Baseline Risk Assessment Report	06/30/2007					X			
FR	M-16-50	Initiate Remedial Actions for Remaining Waste Sites for 100-H Area	07/31/2007					X			
Total FY 2007 River Corridor TPA Milestones			6		0	0	0	6	0	0	0

*M-16-57 - To initiate full-scale remedial action within one month after basin removal performed by another Hanford Site contractor may not be feasible depending on timeframe and scope currently being implemented.

River Corridor Closure Project
 TPA MILESTONE SUMMARY SCHEDULE

100 AREA FIELD REMEDIATION	Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013				Fiscal 2014				Fiscal 2015							
	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 M TPA MAJOR MILESTONE C COMMITMENT ◇ FORECAST ◐ UNRECOVERABLE ● "AT RISK" ⊕ RCRA PERMIT COMMITMENT

*M-16-57/M-16-58 - To initiate full-scale remedial action within one month after basin removal performed by another Hanford Site contractor may not be feasible depending on timeframe and scope currently being implemented.
 **M-16-52 - Portion that states "including closure of 1706-KE Waste Treatment System" is not RCC scope.
 ***M-16-53 - Statement in TPA CR M-34-04-01 states "100-K Area remedial action is not complete until K-Basin sludge shipments for disposal off site have taken place". This portion is not RCC scope.

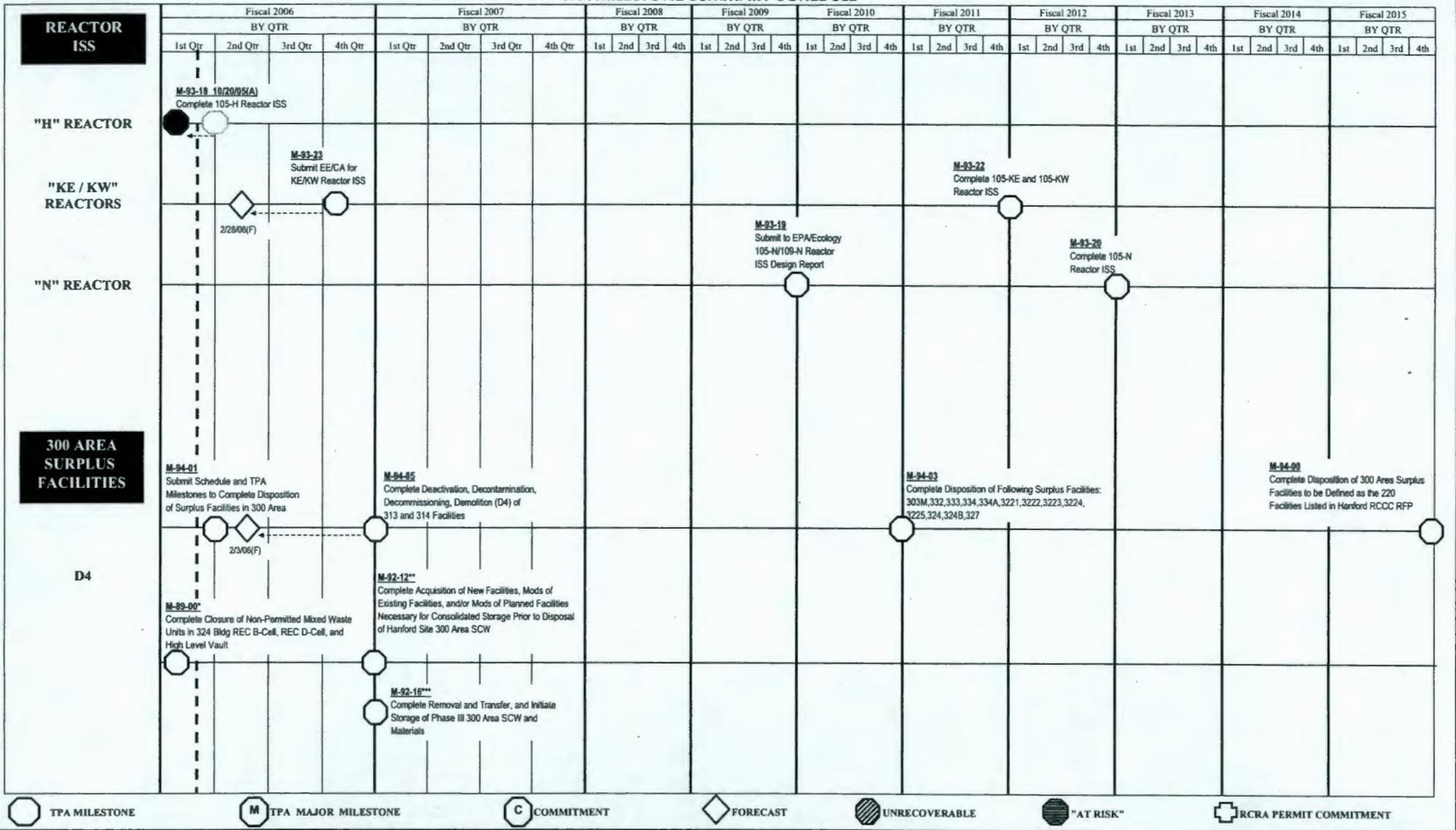
River Corridor Closure Project
 TPA MILESTONE SUMMARY SCHEDULE

300 AREA FIELD REMEDIATION	Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010				Fiscal 2011				Fiscal 2012				Fiscal 2013				Fiscal 2014				Fiscal 2015			
	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	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th				
300-FF-2	M-16-63 Submit Schedule & TPA MSs to Complete Interim RA for 300-FF-2 Waste Sites & Confirmatory Sampling of 300-FF-2 Candidate Sites				M-16-67 Submit Tech Development Summary Rpt for Phases I, II, & III, an Intermediate Design Rpt, a Remediation Schedule, and Testability Investigation Work Plan for Remedial Actions at 618-10/-11 Burial Grounds								M-16-64 Complete Interim RA for Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, 618-1)												M-16-69 Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of All Candidate Sites Listed in 300-FF-2 ROD (except for 618-10 and 618-11 Burial Grounds)															
	M-16-60 Complete Interim RA for at Least 3 of Following High Environmental Priority 300-FF-2 Waste Sites (318-4, 618-2, 618-3, 618-5, 618-7) & Confirmatory Sampling of 300-7, 300-9								M-16-61 Complete Interim RA for Remaining High Environmental Priority 300-FF-2 Waste Sites (318-4, 618-2, 618-3, 618-5, 618-7)								M-16-62 Complete Interim RA for Following 300-FF-2 Waste Sites (300-8, 300-18, 300-VTS, 318-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, 618-13)																							
END STATE & FINAL CLOSURE	M-16-70 10/13/05 (A) Begin Sampling to Support 100/300 Area Component of River Corridor Baseline Risk Assessment				M-16-72 Submit Draft 100/300 Area Component Baseline Risk Assessment Report																																			
Baseline Risk Assessment																																								

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

M-16-00B - 09/30/2018 - Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds
C-16-06C - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area
C-16-06D - TBD - Submit a Schedule and Establish Commitments to Complete Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area

River Corridor Closure Project
TPA MILESTONE SUMMARY SCHEDULE



M-93-00 (TBD) - Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings
 *M-89-00 - Currently in dispute at RL/regulator project manager level (dispute was initiated on 7/29/05 prior to commencement of RC contract on 8/27/05); anticipate completion date to be revised to realign with M-94-03 (due 9/30/2010).
 **M-92-12 - Milestone shared with Fluor Hanford. At this time there are no additional facilities identified as needed to store 300 Area SCW.
 ***M-92-16 - Milestone shared with Fluor Hanford. 327 building SCW is expected to be removed by 3/30/06. The last SCW item is in the 340 facility, which is presently under Fluor Hanford's control.

RIVER CORRIDOR TPA CHANGE REQUESTS (September - November 2005)

There were no River Corridor change requests approved during September - November 2005.

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

Washington Closure Hanford (WCH) assumed River Corridor cleanup responsibilities on August 27, 2005. Cleanup along the Columbia River will be accomplished by five major WCH projects: Deactivation, Decontamination, Decommissioning, and Demolition (D4) Closure Project, Reactor Interim Safe Storage (ISS) Closure Project, Field Remediation (FR) Closure Project, Waste Operations Project, and End State and Final Closure (ESFC) Project.

D4 Closure Project (M-89-00, M-94-01, M-94-05)

100 Area

- Isolated, removed, and capped piping at 105/107-N.
- Isolated, size reduced, and loaded out 107-N Ion Exchange Tank.
- Completed 166-N thermal systems insulation (TSI) loadout.
- Completed characterization summary reports for the following structures: 108-N, 163-N, 183-N, 183-NA, 183-NB, and 183-NC.
- Completed demolition (September) and loadout (October) of the 183-KW Chlorine Vault.



Demolition of the 183-KW Chlorine Vault

- Completed 183.1-KW hazardous waste removal.
- Completed deactivation and demolition of 1332-N.

300 Area

- Completed hazmat removal and application of fixative in the 314/314B complex. Completed 314B demolition and loadout in October. 314 building demolition is continuing.



Demolition of 314 Building

- Completed demolition of 3225 and MO-052 in October.
- Completed demolition and loadout of 334 and 334TF in November; completed deactivation of 334A.

- Submitted the draft work package (for special case waste [SCW]) venting of the ion exchange columns located in the 327 basin to the appropriate organizations for review. Comment resolution is due 12/14/05. The 327 SCW packaging/shipment activities are planned to be completed by 3/31/06 (supports TPA Milestone M-92-16).
- Completed characterization for 327, and initiated for 324 building.
- Initiated the Data Quality Objectives (DQO) / Sampling and Analysis Plan (SAP) process for 324/327.
- Proposed milestones are being drafted in support of TPA Milestone M-94-01, Submit a Schedule and TPA Milestones to Complete Disposition of Surplus Facilities in the 300 Area (due 12/31/05).

Reactor ISS Closure Project (M-93-18, M-93-23)

- Completed H Reactor ISS on 10/20/05, satisfying completion of TPA M-93-18, more than two months ahead of schedule. This is the fifth of nine surplus production reactors that have been placed in interim safe storage.



Completion of H Reactor ISS

- Commenced preparation of the KE/KW Reactor ISS Engineering Evaluation/Cost Analysis (EE/CA) in October (M-93-23).
- For 105/109-N - completed draft Final Hazard Classification/Audit Safety Analysis (FHC/ASA) and Conceptual Design Report in September; also issued Data Quality Objective (DQO) Rev. 0. Transmitted SAP Draft A to RL in November.

Field Remediation Closure Project (M-16-63, M-16-46)

300 Area

- Completed loadout of 618-8 Burial Ground stockpiled materials (excluding trench) on 9/13/05. Completed potholing and trenching on 11/8/05. No areas of contamination were encountered.
- Completed loadout of the remaining 618-3 Burial Ground waste (including lead stockpile) in November.
- Obtained RL approval for the 618-2 Burial Ground Management of Change (MOC) and Safety Evaluation Report (SER) on 11/2/05. Completed project restart review for loadout of the stockpiled material.

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

- Completed first regulator review for the evaluation of existing data for 618-10/11 Burial Grounds.
- Proposed milestones are being drafted in support of TPA Milestone 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 (due 12/31/05).

100 Area

- Continued loadout from 118-B-1 trenches; initiated "hot particle" controls at Trench 23 and at 118-C-1. Continued coordination with K-Basin personnel for spent nuclear fuel transfer.



Gamma Probe at 118-B-1 Sorting Cells

- Presented 100-C-7 hexavalent chromium site data to RL and the regulators. Data showed contamination to groundwater. Waste site will be removed from TPA Milestone M-16-45 (due 12/31/06).
- Horseshoe Landfill sample results documenting successful removal of DDT to ecological cleanup values was presented to RL in September. Completed loadout of stockpiled material in November.
- Initiated remediation activities at the 128-B-3 river bank; discovered barrel filled with suspect oil in October. In November discovered and sampled barrel with "tar-like" material.



Transferring the Last of Unknown Liquids from 128-B-3 into Overpack Barrel

- Completed excavation and loadout for the 100-F Remaining Sites.

- Completed the readiness assessment and initiated remediation activities at the 100-F Burial Grounds.
- Completed remediation of the 116-K-2 Mile Long Trench (451,800 tons) on 10/27/05. Also completed closeout sampling; analytical results expected in December.
- Completed backfill at 116-KE-4 and 100-KE pipelines.
- Suspended 100-IU-2 and 100-IU-6 Remaining Sites remediation subcontract due to funding reductions.
- Completed remediation of all identified contaminated 116-N-1 Crib and Trench material.
- Initiated confirmatory sampling at 100-D Area.



Sampling Inert Waste at 100-D-7

- Issued 100-D Area design for burial grounds and remaining sites.
- Issued RFP for 100-B/C anomalies subcontractor.

Waste Operations Project

- Completed pre-qualification of bidders in October for ERDF Disposal Operations subcontract RFP. Issued the RFP and completed pre-bid conference and site tour with bidders in November. Proposals are due 1/4/06.
- Continued placement/disposal of Ion Exchange Modules from K-Basins.



Offloading IP-II Container from K-Basins Containing Fuel Canister Storage Rack; Ion Exchange Modules in Yellow

- Initiated construction of macroencapsulation pads for future waste.

RIVER CORRIDOR PROJECT ACCOMPLISHMENTS

- Initiated process to procure 100 IP-1 containers.
- Through November 26, approximately 189,500 tons of contaminated material have been disposed in ERDF since WCH assumed River Corridor cleanup responsibilities on August 27, 2005. More than 6.2 million tons of waste have been disposed in ERDF since operations began in July 1996.

End State and Final Closure Project (M-16-70)

Risk Assessment

- Completed the shoreline conductivity surveys the last part of September.
- Received regulatory authorization to proceed with sampling for the 100/300 Area River Corridor Baseline Risk Assessment (RCBRA) with the agreement that work continues with resolving all SAP comments. Comments from the regulators, Tribes, Trustees, and stakeholders on the 100 Area and 300 Area Component of RCBRA SAP Draft A were being addressed during September. Began groundwater sampling on 10/13/05 which satisfied completion of TPA Milestone M-16-70 (due 10/30/05).
- Began soil sampling and installation of sampling equipment in support of the 100 Area and 300 Area Component of the (RCBRA) in October.
- Concluded staking/GPS of sampling plots, installation of environmental dosimeters, and soil texture evaluation in support of biota and abiotic sampling and multi-incremental sampling for the 100 Area and 300 Area Component of the RCBRA.



Multi-Incremental Sampling in 100-D Area Shoreline Riparian Zone



Field Sieving of Soil Sample

- Held the ninth and final workshop on Existing Data Compilation/Evaluation for the Columbia River component on 9/20/05 with RL, EPA, Ecology, Tribes, Trustees, and stakeholders, and elicited feedback.
- Continued disposition of comments from the regulators, Tribes, and Trustees for the 100-B/C Pilot Project Risk Assessment Report Draft B Report.
- Continued outlining the strategy for the Integrated Risk Assessment Work Plan.

Long Term Stewardship

- Continued effort to establish the River Corridor Closure database.

Orphan Sites

- Issued draft orphan sites evaluation report for 100-F Area in September.
- Initiated orphan sites evaluation for the 100-D Area in November.



Measuring Sampling Transect in Riparian Zone



Flagging Sample Plot Boundary for Ecological and Multi-Incremental Sampling

RIVER CORRIDOR ISSUES

- **118-K-1 Burial Ground:** Spent nuclear fuel (SNF) was discovered in the 100-B/C Burial Grounds during remediation. The Auditable Safety Analysis (ASA) for the 118-K-1 Burial Ground was revised to include the potential discovery of SNF. Due to the different types of material that may be present in the burial ground, preliminary calculations indicate the hazard categorization will increase to a Hazard Category 3 Nuclear Facility. Field activities have been suspended to prepare a Documented Safety Analysis (DSA).

Status: A DSA has been prepared and a draft was forwarded to RL in September. Remediation is planned to resume in late February subject to an RL-approved operational readiness review.

- **100-B/C Burial Grounds:** 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 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 SER from RL has been issued, and a path forward for burial grounds and SNF has been established. Resources and funding are secured to transport fuel to K-Basins at the completion of 118-B-1 and 118-C-1 excavation activities. Expected completion of the 118-B-1/118-C-1 excavation is mid to late February. This will be the final report on this issue.

- **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, remediation work was stopped. Work processes and procedures are being reviewed and revisions will be made to the field operations prior to restart.

Status: The barrels containing the contents of the safe were placed in a Conex box for additional security. Planning continues for final disposition of the safe's contents. RL approved the 618-2, -3, -8 Burial Grounds Management of Change (MOC)/SER on November 2, 2005. An internal WCH management readiness review was held on November 10, 2005. Final loadout of the 618-3 Burial Ground contaminated material from the stockpile was initiated on November 28, 2005. Startup of sorting and sampling for the 618-2 Burial Ground material in the stockpile area is scheduled for November 30, 2005, with loadout scheduled to start on December 12, 2005. (*Note: Notice to Proceed was issued to the subcontractor on December 5, 2005.*) This will be the final report on this issue.

RIVER CORRIDOR PERFORMANCE SUMMARY

RIVER CORRIDOR CLOSURE PROJECT PERFORMANCE SUMMARY Contract Inception (8/27/05) through November 2005 (\$K)

	IPB		CUMULATIVE			SCHEDULE VAR			COST VAR		
	BCWS	EAC	BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI
D4	TBD	TBD	TBD	TBD	6,493						
Reactor ISS	TBD	TBD	TBD	TBD	857						
Field Remediation	TBD	TBD	TBD	TBD	9,786						
Waste Operations	TBD	TBD	TBD	TBD	5,771						
ESFC	TBD	TBD	TBD	TBD	1,075						
Mission/General Support	TBD	TBD	TBD	TBD	16,275						
RCC TOTAL	TBD	TBD	TBD	TBD	40,257						

The draft RCC Integrated Project Baseline (IPB) was submitted to RL on November 22, 2005. The document is currently under review by RL. Upon approval, the IPB will be used for project variance tracking.

INTEGRATION ISSUES

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

- On October 31 the DOE Groundwater Project delivered a report to Ecology, assessing the effects of groundwater/river interface on aquatic and riparian eco-receptors at the 100-N Area. The End States and Final Closure Project is planning to incorporate the results of the 100-N Area assessment in the 100/300 Area baseline risk assessment.

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

**Tri-Party Agreement (TPA)
M-81-00 Series Milestones
12/13/05**

12/13/05 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

**12/13/05 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	7/31/07	On Schedule
M-81-11	Submit FFTF End Point Criteria Document	8/31/05	Completed 7/7/05
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	Completed 6/15/05
M-81-14-T01	Complete Fuel Storage Facility Sodium Drain	4/30/07	Completed 9/1/05
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

RL Program Managers Assessment of Contractor Performance

(12/13/05)

- FFTF continues to focus on the high priority deactivation activities of fuel offload and sodium drain.
- Secondary priority of Systems Deactivation continues on a plant systems that are no longer needed.

Significant Accomplishments

Last Three Months

(12/13/05)

- **Fuel Offload**

- Completed wash and transfer of 35 assemblies (5 Interim Storage Casks)
- ~11 Spent Fuel Assemblies remain to be washed and stored; ~8 are sodium-bonded fuel assemblies
- Completed disassembly of Multi-Duct Assemblies SRF-3 and SRF-4
- Completed Fabrication of All Interim Storage Casks required to complete Fuel Transfer Activities

Significant Accomplishments

Last Three Months

(12/13/05)

- **Sodium Drain**

- All bulk sodium has been drained from the FFTF Plant except for the Interim Decay Storage vessel (~23,000 gallons)
- Initiated NaK cleaning in the Fuel Storage Facility cooling loop
 - Work was progressing until an unplanned NaK/Water reaction event occurred
 - A Recovery Plan has been prepared and approved
 - Actions have been initiated per the Recovery Plan

Significant Planned Actions

(Next Six Months)

(12/13/05)

- **Fuel Offload**

- Load and transfer two additional Interim Storage Casks (ISC's) to 400 Area ISA
- Complete Disassembly and pin processing of test fuel assembly ACN-1 in the IEM Cell
- Transfer Loaded ISC's to 200 Area ISA

- **Sodium Drain**

- Continue preparations for sodium drain of the IDS Vessel (~23,000 gallons).
- Complete cleaning residual NaK from the FSF cooling system. Scheduled to be completed in January 2006.

- **Auxiliary Systems Shutdown**

- Continue systems shutdown when they are no longer needed.

Schedule / Cost Performance

Fiscal Year to Date Status (\$000s)

<u>Description</u>	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
FFTF	\$5,061	\$7,199	\$5,253	\$2,138	\$1,946	\$42,046

Schedule Variance Analysis (+\$2.1M):

The favorable schedule progress is due to completing the Interim Storage Cask procurement (FY 2005 BCWS) and successfully processing fueled tests SRF-3 and SRF-4 without significant issues, thus closing out FY 2005 pin processing preparations.

Cost Variance Analysis (+\$1.9M):

Disassembly of fueled tests SRF-3 and SRF-4 went better than expected.

Project Issue and Summary

12/13/05

- **Issue**

- T-3 Cask SARP addendum was disapproved by HQ
 - Potential delay in shipment of sodium bonded fuel to ANL
 - Corrective Action – A white paper rebutting the HQ decision was prepared and provided to HQ; discussions with HQ are ongoing in an attempt to resolve differences

- **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 TPA milestones