0057196

Meeting Minutes
September 25, 2001
Tri-Party Agreement Milestone Review

Approval: Michael A. Wilson Date: 5/21/02
Michael A. Wilson (B5-18)
Ecology IAMIT Representative

Approval: Joel Hebdon for WWB Date: 5/21/02
W. Wade. Ballard (A5-12)
RL IAMIT Representative

Approval: J E Rasmussen Date: 5/21/02
J. E. Rasmussen (H5-60)
RL IAMIT Representative

Approval: Craig E. Cameron Date: 5/21/02
Chairperson (B5-01)
Acting EPA IAMIT Representative

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Minutes Prepared by:

Approval: Eileen Murphy-Fitch Date: 5/21/02
Eileen Murphy-Fitch (A1-14)
Fluor Hanford, Inc.

Ballard, W. W.	RL	A5-12
Bilson, H. E.	RL	H0-12
Boston, H. L.	ORP	H6-60
Cusack, L.	Ecology	B5-18*
Dagan, E. B.	RL	A5-15
Foley, B. L.	RL	H0-12
Gay, R.	CTUIR	
Goodenough, J.	DOE	H0-12
Hales, J. E.	FH	A1-14
Hebdon, J. B.	RL	A5-15
Hedges, J.	Ecology	B5-18
Henry, G.	ODOE*	
Hertzel, J. S.	FH	A1-14
Hughes, M. C.	BHI	H0-09
Jim, R.	Yakama*	
LaRue, D. N.	BHI	H0-11
Logan, T. E.	BHI	H0-09
Mattlin, E. M.	RL	A5-15
McCormick, M.	RL	E6-11
Moy, S. K.	RL	H0-12
Morrison, R. D.	FH	A1-14*
Murphy-Fitch, E. J.	FH	A1-14*
Niles, K.	OOE*	
Piippo, R. E.	FH	A1-14
Price, J.	Ecology	B5-18*
Robertson, O.	RL	H0-12
Sanders, G. H.	RL	H0-12
Skinnarland, E. R.	Ecology	B5-18
Sobczyk, S.	NezPerce	
Stanley, R.	Ecology	Lacey*
Walsh, J. L.	BHI	H0-11
Wintczak, T. M.	BHI	H0-09
Warren, R. N.	RL	H0-12
Yerxa, J. K. .	RL	A5-15
Administrative Record	EDMC	H6-08*

**w/Attachments* *File: TPAM_Sept_01.doc*

Environmental Restoration Project

The Environmental Restoration (ER) Project has completed 255 Tri-Party Agreement Milestones and 60 milestones remain to be completed. The 15 ER Project Tri-Party Agreement Milestones were completed ahead of schedule. Discussions and negotiations of the proposed River Corridor Project (RCP) Tri-Party Agreement milestones are underway. The three agencies have committed to reach tentative agreement by December 31, 2001, on RCP Tri-Party Agreement workscope (Tri-Party Agreement M-13, M-15, M-16, M-20, and M-93).

Change Requests In Development

Tri-Party Agreement Change Request M-016-01-03, *300-FF-1 Backfill/Regrade/618-4 Burial Ground,* was approved August 28, 2001. As a result of this action, two Tri-Party Agreement Interim Milestones were deleted (M-016-03E and M-016-03F) and replaced with three new interim milestones (M-016-03G, -03H, and -03I). This modification is significant because the 618-4 Burial Ground is now included in the milestone.

EPA did not agree with the M-013-01-02 Change Request status. The change request did not acknowledge that the work plans were another year off on the schedule. If DOE wants to include a three-year schedule, it should be understood that EPA cannot accept or defend it.

RL proposed a four-month delay to the establishment of the remaining 100 Area remedial actions (Tri-Party Agreement Change Request M-16-01-04). The basis for the proposed change was to allow sufficient time for DOE to develop the remaining remedial actions for the 100, 200, and 300 Area to ensure efficient resource allocation, sequencing of workscope and minimizing duplicative efforts. EPA and Ecology rejected the change request stating that the proposed change was not warranted. In September 2000, the last Record of Decision (ROD) was issued for the 100 Area Burial Grounds. The schedule allows DOE time to complete the Remedial Design/Remedial Action Work Plan, includes an enforceable schedule and milestone commitments (approximately one per year), and obtain final approval of the Plan by December 31, 2001.

Two Tri-Party Agreement Change Requests will be revisited and, if appropriate, revised. Tri-Party Agreement Change Request M-013-01-03 establishes the 200 NPL RI/FS Work Plans for Tri-Party Agreement Milestones M-013-00M through -00P. Tri-Party Agreement Change Request M-020-01-01, modifies the M-20 series milestones.

As a result of the submittal of the M-013-01-02 and M-016-01-04 Tri-Party Agreement Change requests, RL has tasked the RL Deputy Manager (Schlender) to develop a strategy and plan to resolve current and future Tri-Party Agreement workscope and negotiations.

Ecology expressed their frustration that the status of the M-13 and M-20 Change Requests/issues remained unchanged since December 2000 and no action taken. Ecology felt that RL continued to talk about the new approach but never documented or submitted via a Class I Change Request. In addition, there is a need for agreement on what will collectively be negotiated. Until that happens, the likelihood that it will

happen is slim. Until a proposed integrated plan, strategy and schedule are produced, specific change requests will not be approved.

Remedial Action and Waste Disposal Project

The 100F Area southern ash pit sampling results indicate that the europium levels will decay below the ROD cleanup level by 2018, so no further remediation is required by EPA. This eliminates approximately nine months of excavation activity at the 100 F Operable Unit. Remediation and Backfill of 10 Liquid Waste Sits and Process Effluent Pipelines in the 100-HR-1 Operable Unit was completed two months ahead of schedule. Potholing activities were completed at 116-N-1 to characterize the Site for access and remediation activities. Initial laboratory results confirmed an estimated 20,000 tons of additional contaminated material require excavation.

ERDF operations is a major success story. ERDF marked its five-year anniversary of disposal operations while also observing receipt of 2,721,540 metric tons (3,0000,000 tons) of contaminated waste without a lost-time accident and the ERDF Transportation Team has driven 8,445,641 kilometers (5,249,000 miles) without an at-fault accident.

Groundwater/Vadose Zone Integration Project

The Science and Technology Program received positive marks from the 18-month review by the National Research Council which is a part of the National Academy of Sciences. Eleven RCRA wells are planned for installation by December 31,2001. All 11 wells are scheduled for completion ahead of the December 31, 2001, compliance date. Well installation operations were completed for Phase II (28 barrier wells and 4 compliance wells) of the In-Situ Redox Manipulation (ISRM) Project. All groundwater pump and treat systems operated above the planned 90 percent availability levels in August.

Decommissioning Projects

In August, two hot spots were located in the F Reactor Fuel Storage Basin (FSB) – one suspect piece was confirmed as fuel.

Surveillance/Maintenance and Transition Projects

An evaluation of alternatives for interim stabilization of the hexone tanks in the 200 Area is under review by RL and the regulators. All FY 2001 200 Area asbestos abatement workscope was completed in August 2001.

Program Management and Support

EPA expressed their thanks to BHI for Nancy Meyer's knowledge, attention and actions taken during the revision of the Community Relations Plan. Her actions saved the three agencies embarrassment during the process and are commended.

Environmental Restoration Issues:

TRI-PARTY AGREEMENT MILESTONE M-16-03E: Tri-Party Agreement Milestone M-16-03E, *Complete Remediation of Waste Sites in 300-FF-1 OU (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling,* due September 30, 2001, will be missed due to the need for performing a contaminant-partitioning coefficient (Kd) study on uranium leachability. The 300 Area cleanup goal issues will be addressed through the bench scale study. The study tests the leach rate and Kd of representative samples from the 300 Area. This study is needed to ensure that the selected remediation goal for uranium (350 pCi/g) is protective of groundwater and the Columbia River. The regrades will not be completed until study results confirm that no further excavations are required. A data quality objective was completed and a baseline change proposal prepared to secure funding for the study.

RL submitted a Tri-Party Agreement Change Request proposing a two-year extension of the completion date. EPA rejected the change request on June 19, 2001, because DOE did not provide "good cause" for the extension and there was no discussion on including the 618-4 Burial Ground into this workscope. EPA would like to quickly establish a milestone completion date for excavation, verification, and backfilling of the 618-4 Burial Ground. RL initiated the Tri-Party Agreement Dispute Resolution Process (Article XVI) on June 27, 2001. Discussions will continue at the project manager level until July 19, 2001. RL is confident that the issue can be resolved at the project managers' level without elevation to the IAMIT.

TRI-PARTY AGREEMENT MILESTONE M-16-00F: Tri-Party Agreement Milestone M-16-00F, Establish Date for Completion of all 100 Area Remedial Actions, is due December 31, 2001. This sets the dates and workscope for any remaining remedial actions in the 100 Area. Most of these remedial actions are in the 100 Area Long Range Plan (miscellaneous pipelines) and are being developed. EPA and Ecology have expressed an interest in negotiating the 200 Area changes along with the completion date for the 100 Area and 300 Area Remedial Actions.

200 AREA NON-TANK FARM RELATED OPERABLE UNITS (OU): RL's long-range plan is based on the alternate assessment approach for the 200 Area (assessing alternate sites). This approach will require modification of several Tri-Party Agreement milestones including the M-13 and M-20 major milestones. RL is developing Tri-Party Agreement Change Requests and will formally transmit them for regulatory review and approval no later than August 31, 2001. Since these change requests affect Tri-Party Agreement major milestones, a public review period is required. Both EPA and Ecology have expressed an interest in negotiating the 200 Area changes in conjunction with completion of the 100 and 300 Area Remedial Actions.

Waste Management

LAND DISPOSAL RESTRICTIONS (LDR) REPORT (M-26-01)

The Final CY 2000 LDR Report was delivered to Ecology and EPA on June 28, 2001. DOE stated that the activities described in the LDR Report update are based on the contractor's baseline as of December 31, 2000, and do not reflect the President's budget or any pending congressional budget actions. DOE further stated that funding realities may impact their ability to achieved agreed-to cleanup actions.

DOE believes that the document submitted is comprehensive and responsive to LDR requirements. The Report meets the March 29, 2000, Director's Determination, and incorporates commitments made during the settlement negotiations. Proposed treatment and/or disposal milestones were included on a draft, unsigned, Class II Tri-Party Agreement Change Request. When the Final CY 2000 LDR Report is accepted by Ecology, a signed Class II Tri-Party Agreement Change Request will be transmitted to Ecology for approval. Once approved, all mixed low-level waste treatability groups will be covered under either the Tri-Party Agreement or through other regulatory activities (i.e., permits).

Tritium Treatment Technology (M-26-05)

The biennial report is ahead of schedule. The Inspector General (IG) is reviewing K Basin issues and will want to know why K Basins tritium is not being treated now while the fuel is being removed.

ACQUISITION OF FACILITIES TO TSD TRU/TRUM, LLMW AND GTC3 (M-91)

Two Tri-Party Agreement Milestones were completed – M-91-18, *Transmit T Plant Sludge Storage Conceptual Design Document (CDD) to Ecology,* and M-91-13, *Initiate Disposal of Low-Level Mixed Waste (LLMW).* Tri-Party Agreement Milestone M-91-01, *Complete Acquisition of New Facilities, Modification of Existing ....for Post 1970 TRU/TRUM.* The date for completion of the M-91-01 Interim Milestone will be determined after the required technology is determined through the TRU/TRUM Project Management Plan (PMP). This milestone entered into dispute resolution in October 2000. Tri-Party Agreement Interim Milestone M-91-07, *Complete Project W-113 for Post 1970 CH TRU/TRUM Retrieval,* due September 2004, cannot be completed as written due to funding constraints. Other activities affecting the M-91-07 Interim Milestone relate to the impact of the Solid Waste-Environmental Impact Statement ROD on retrieval milestones, application of newly generated requirements for retrieved TRU waste, and clarification of retrieved drums. The issues should be resolved as part of the PMP and Tri-Party Agreement Change Request.

Thermal treatment and disposal of approximately 30 cubic meters of contact handled LLMW has been completed. To date, no thermal treatment residues have been disposed of.

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW

CHAIRPERSON: D. R. Sherwood

Tuesday, September 25, 2001
712 Swift Blvd., Suite 5, EPA Conference Room

TIME	MILESTONE	TITLE
10:00 am	M-13-00	Complete RI/FS Submittals
	M-15-00	RI/FS Process Completion
	M-16-00	Complete Remedial Actions
	M-24-00	RCRA Well Installation
	M-93-00	Disposition of Surplus Reactors
11:15 am	M-26-01	Land Disposal Restrictions
	M-26-05	Tritium Treatment Technology
	M-91-00	Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3
12:00 noon	Adjourn	

ATTENDEES

Tri-Party Agreement Milestone Review
Environmental Restoration and Waste Management
September 25, 2001

NAME/ ORGANIZATION		MAILSTOP	ATTACHMENTS
Jeff Hertzel	FH		
ROB PIIPPO	FH		
JOHN WALSH	BHI		
DEENA LARUE	BHI		
Dennis Faulk	EPA		
Alex Teimouri	DOE		
Mary Burandt	DOE-ORP		
Tom Skonnard	Ecology		
JANE HODGES	Ecology		
George Sanders	DOE-RL		
Laura Cusack	Ecology		✓
John Price	Ecology		
Tom Wintczak	BHI		
Don LOGAN	BHI		
JOE RICHARDS	CTUIR	please mail to:	750 SWIFT BLVD, Ste. 14 ✓ Richland WA 99352
Laura Rand	Ecology		
Kevin Leary	DOE		
Bryan L. FOLEY	DOE		
Joel Hebdon			✓
Roy Hugel	DOE		
DEANNA HENRY	OREGON ENERGY	PLEASE MAIL TO:	OREGON OFFICE OF ENERGY 625 MARION STREET NE. ✓ SALEM, OR 97301-3742
Ellen Dagan	DOE		
Greg SINTON	RL		Notes/anything on LDR

ATTENDEES

Tri-Party Agreement Milestone Review
Environmental Restoration and Waste Management
September 25, 2001

NAME/ ORGANIZATION	MAILSTOP	ATTACHMENTS
KEN HLADEK FLUOR HANFORD		
DALE MCKENNY FH.		

Richland Environmental Restoration Project

TPA Quarterly Review

Tri-Party Agreement

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

September 25, 2001

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- Groundwater/Vadose Zone Integration Project
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- Surveillance/Maintenance and Transition Projects
- Program Management and Support

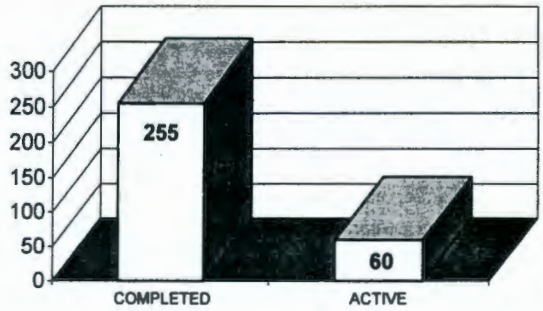
4. CURRENT ISSUES

5. COST / SCHEDULE STATUS

- Overview
- TPA Schedule

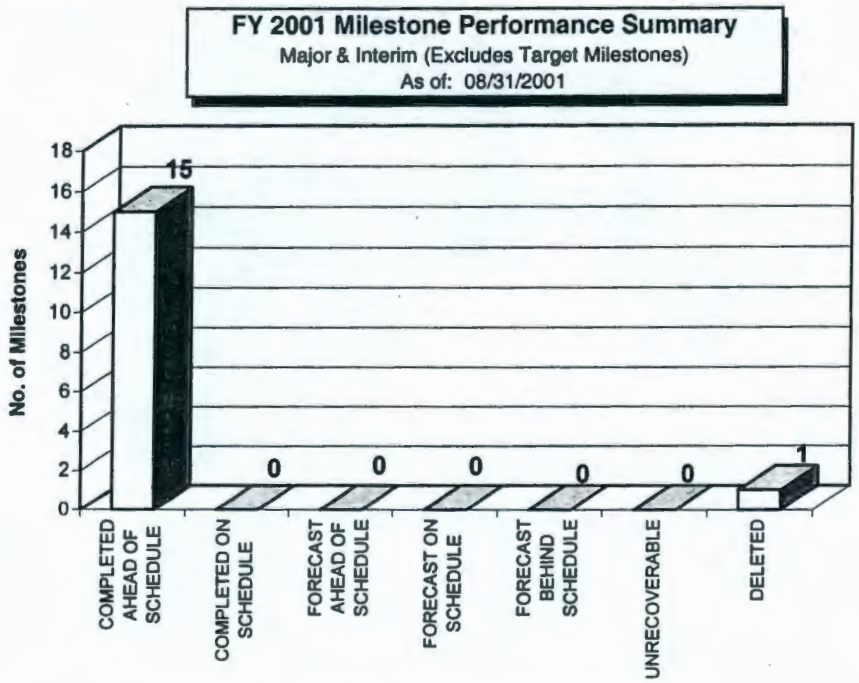
TPA Milestone Statistics

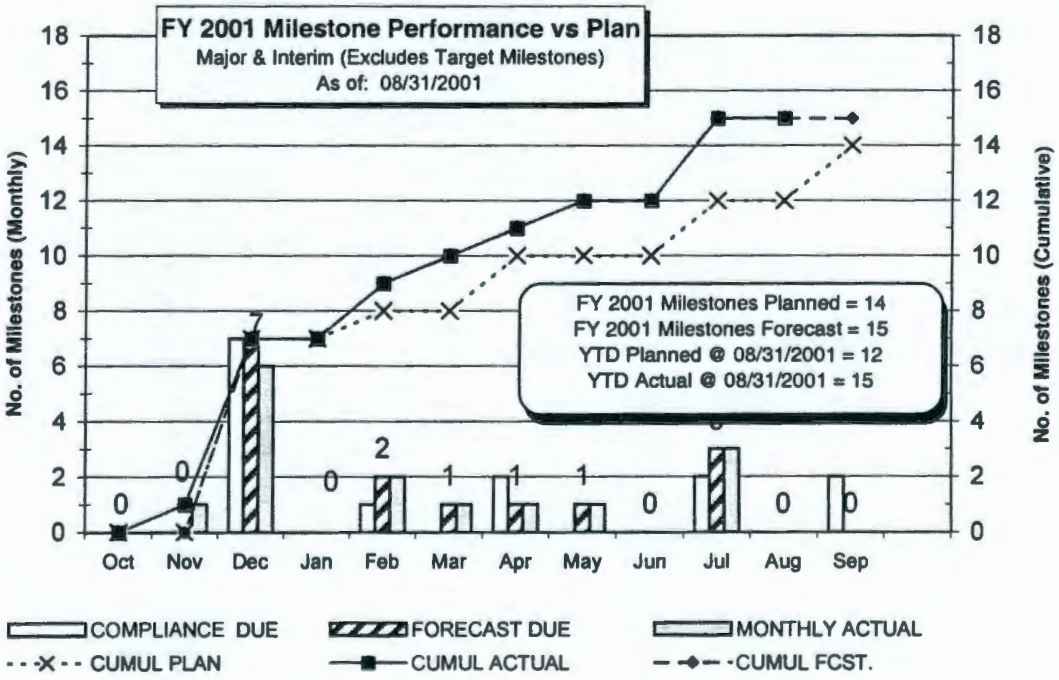
Major & Interim (Excludes Target Milestones)



	Compliance Due Date	Total Active @ 8/2001	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
M-13-00 Submit Work Plans for RFI/CMS or RI/FS Studies (Groundwater/Vadose)	12/31/2005 (M-13-00P)	6	*M-13-25 (C)*	*12/31/00*	M-13-00O	12/31/04
			M-13-00K (C)	*12/31/00*	M-13-00P	12/31/05
			M-13-26	12/31/01		
			M-13-00L	12/31/01		
			M-13-00M	12/31/02		
			M-13-00N	12/31/03		
M-15-00 Site Investigations / Feasibility Studies (Groundwater/Vadose)	12/31/2008 (M-15-00)	14	*M-15-41A (C)*	*10/31/01*	M-15-41C	3/31/04
			M-15-42A	10/31/01	M-15-42C	3/31/04
			M-15-40A	9/30/02	M-15-39B	5/31/04
			M-15-42B	9/30/02	M-15-40C	10/31/04
			M-15-41B	10/30/02	M-15-39C	11/30/05
			M-15-38A	3/31/03	M-15-00C	12/31/08
			M-15-40B	5/31/03	M-15-00	12/31/08
			M-15-39A	9/30/03		
M-16-00 Remedial Design / Remedial Action (Remedial Action / Groundwater)	9/30/2018 (M-16-00)	18	*M-16-27A (C)*	*12/31/00*	M-16-27C	9/30/02
			M-16-26D (C)	*2/28/01*	M-16-10A	8/1/03
			M-16-07B (C)	*7/31/01*	M-16-03H	12/31/03
			M-16-41A (C)	*7/31/01*	M-16-26E	9/30/04
			M-16-26C (C)	*9/30/01*	M-16-13B	10/29/04
			M-16-26G (C)	*9/30/01*	M-16-26F	2/28/05
			M-16-00F	12/31/01	M-16-00	9/30/18
			M-16-27B	12/31/01	M-16-01	TBD
			M-16-26B	3/31/02	M-16-00A	TBD
			M-16-41B	3/31/02	M-16-00B	TBD
			M-16-03A	6/30/02	M-16-41C	TBD
			M-16-03G	9/30/02	M-16-03I	TBD
M-20-00 Submit Closure Plans for All RCRA TSD Units (Groundwater/Vadose)	(Shared with FH) 2/28/2004 (M-20-54)	5	M-20-39	2/28/03	M-20-53	12/31/03
			M-20-33	10/31/03	M-20-54	2/28/04
			M-20-52	12/31/03		
M-24-00 RCRA Groundwater Monitoring (Groundwater/Vadose)	12/31/2006 (M-24-00R)	11	*M-24-46 (C)*	*12/31/00*	M-24-54	12/31/01
			M-24-47 (C)	*12/31/00*	M-24-55	12/31/01
			M-24-48 (C)	*12/31/00*	M-24-00M	12/31/01
			M-24-00L (C)	*12/31/00*	M-24-00N	12/31/02
			M-24-49 (C)	*4/30/01*	M-24-00O	12/31/03
			M-24-50 (C)	*4/30/01*	M-24-00P	12/31/04
			M-24-51	12/31/01	M-24-00Q	12/31/05
			M-24-52	12/31/01	M-24-00R	12/31/06
			M-24-53	12/31/01		
M-70-00 ERDF Operational	7/01/1996A (M-70-00)	0				
M-93-00 Reactors on River Final Disposition (Decommissioning)	TBD (M-93-00)	6	M-93-12	2/28/02	M-93-11	9/30/03
			M-93-14	6/30/03	M-93-15	12/31/03
			M-93-10	7/31/03	M-93-00	TBD
TOTAL ACTIVE MILESTONES		60	15 --- MILESTONES COMPLETED IN FY01 *(C)*			

FY 2001 TPA MILESTONE PERFORMANCE METRIC





ENVIRONMENTAL RESTORATION PROJECT

FY 2001 TPA MILESTONE SUMMARY
(Excludes Target Milestones)

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast			Unrecoverable	Deleted
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule		
ER02	M-13-00K	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/2000	12/21/2000(A)	X						
ER02	M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/2000	12/21/2000(A)	X						
ER08	M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/2000	11/01/2000(A)	X						
ER08	M-24-46	Install Two Additional Wells at SST WMA S-SX	12/31/2000	12/27/2000(A)	X						
ER08	M-24-47	Install Four Additional Wells at SST WMA T	12/31/2000	12/27/2000(A)	X						
ER08	M-24-48	Install Four Additional Wells at SST WMA TX-TY	12/31/2000	12/27/2000(A)	X						
ER08	M-24-00L	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY00 If Required	12/31/2000	12/27/2000(A)	X						
ER10	C-10-08	Issue Hanford Site Waste Management Unit Report	01/31/2001	01/11/2001(A)	(TPA commitment milestone not included in total count)						
ER01	M-16-26D	Begin Excavation Activities at 100 B/C Process Effluent Pipelines	02/28/2001	02/26/2001(A)	X						
ER08	M-24-49	Install Three Additional Wells at SST WMA S-SX	04/30/2001	03/30/2001(A)	X						
ER08	M-24-50	Install Two Additional Wells at SST WMA TX-TY	04/30/2001	04/02/2001(A)	X						
ER01	M-16-07B	Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as Defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	07/31/2001	02/28/2001(A)	X						
ER01	M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	07/31/2001	07/25/2001(A)	X						
ER01	M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as Defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	09/30/2001	07/19/2001(A)	X						
ER01	M-16-26G	Remove Filter Boxes and Complete Verification Sampling for 100-B-12 Waste Site	09/30/2001	05/31/2001(A)	X						
ER03	*M-16-03E	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling	09/30/2001								X
ER02	**M-15-41A	Complete 200-TW-1 Operable Unit Field Work Through Drilling and Sample Collection	10/31/2001 (FY02)	07/20/2001(A)	X						
TOTAL FY 2001 TPA Milestones			16		15	0	0	0	0	0	1

M-16-26B completion date revised from 2/28/2001 to 3/31/2002 (FY02) per CR M-16-00-05.

M-13-26 completion date revised from 6/30/01 to 12/31/01 (FY02) to allow time for carbon tetrachloride investigation (per CR M-13-01-01).

*M-16-03E was deleted and replaced with three new outyear milestones (M-16-03G, -03H, -03I) per CR M-16-01-03.

**FY02 milestone completed ahead of schedule in FY01.

M-16-01-03
300-FF-1
Backfill/Regrade /
618-4 Burial Ground
Approved - 8/28/01

M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", due September 30, will be missed due to the decision to perform a Kd study on uranium leachability in the 300 Area. Backfill/regrading will be deferred until study results confirm no further excavation is required. A TPA change package was transmitted to the regulators on June 11 proposing the date be revised to September 30, 2003. EPA disapproved the change request on June 20. Dispute resolution was extended to August 31. The following milestones were developed/deleted during negotiations between EPA and RL and were approved on August 28:

M-16-03G (09/30/02) - Establish ERDF Staging Area that is Ready to Receive Drummed Waste from 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment

M-16-03H (12/31/03) - Complete Remediation of Waste Sites in 300-FF-1 OU to Include Excavation, Verification, and Regrading Including the 618-4 Burial Ground in Accordance with an Approved RDR/RAWP

M-16-03I (TBD) - Complete Treatment of Drummed Waste from 618-4 Burial Ground in Accordance with an Approved RDR/RAWP

Milestones **M-16-03E** and also **M-16-03F** (Complete Excavation, Verification, Soil and Drummed Waste Treatment and Disposal, and Backfilling of 618-4 Burial Ground [TBD]) were deleted.

Proposed TPA Change Requests

RL's goal for the next several months is to initiate the negotiation process on M-13, 15, 16, and 20 for the 100, 200, and 300 Areas and resolve as many of the priority issues as possible. RL's target for a tentative agreement is December 31, 2001. The public involvement period associated with changing the TPA major milestones would commence following the Tri-Parties reaching a tentative agreement. The following RL proposed milestones will be considered within the context of these overall negotiations.

M-15-00-06
200-PW-2 OU
Assessments
Proposed

This change request proposes adding three interim milestones to implement additional activities for the 200-PW-2 Operable Unit Remedial Investigation/Feasibility Study process:

M-15-43A (09/30/03) - Complete 200-PW-2 OU Field Work Through Sample Collection and Analysis

M-15-43B (06/30/04) - Submit 200-PW-2 OU Draft A Remedial Investigation Report to Ecology

M-15-43C (12/31/05) - Submit 200-PW-2 OU Draft A Feasibility Study/Process Waste Closure Plans and Draft A Proposed Plan/Permit Modification to Ecology

This change request will be considered based on the outcome of planned M-13, -15, -16, and -20 renegotiations.

M-013-01-02
200 NPL RI/FS Work Plans
M-13-00L
Proposed

Because of the extensive distribution of carbon tetrachloride in the subsurface and the potential for additional unknown sources, the regulators requested the dispersed carbon tetrachloride plume be included in the 200-PW-1 work plan scope. The level of investigation will be significantly increased in comparison to a typical source operable unit investigation. This change request proposes that the number of 200 NPL RI/FS work plans be revised from three to one for CY01:

M-013-00L (12/31/01) - Submit 1 200 NPL (RFI/CMS) Work Plan. (200-PW-1 Plutonium/Organic-Rich Process Waste Group OU)

M-016-01-04
100 Area Remedial Actions
M-16-00F
Proposed

This change request proposes a date extension for **M-16-00F**, "Establish Date for Completion of All 100 Area Remedial Actions" from December 31, 2001 to April 15, 2002.

M-13-01-03
200 NPL RI/FS Work Plans
M-13-00M thru -00P
Proposed

For the 200 Area remediation activities, RL is proposing a streamlining of the RI/FS process in an effort to establish a remedial decision framework at the major waste category level instead of at the individual OU level.

M-20-01-01
Closure Plans
Proposed

Any changes negotiated under TPA Change Request M-13-01-03 need to consider impacts to remaining M-20 interim milestones and potential modification to major Milestone M-20-00 that currently requires submittal of all closure/postclosure plans for all RCRA TSD units by February 28, 2004.

STATUS BY PROJECT

100 B/C Area Pipeline Remediation

- Through August, excavation was completed for three concrete pipelines (#1, 2, 8). Excavation was also completed for the three outfall structures.

100 D Area Remediation

- Subcontract closeout activities were completed on June 15.

Lewis Canal Pipe Trench Excavation

100 F Area Remediation

- The southern ash pit sampling results were received in June. Europium contamination levels exceeded the Record of Decision (ROD) cleanup levels. Since the europium levels will decay below the ROD cleanup level by 2018, the regulators concurred that no further remediation is required. This will eliminate approximately nine months of excavation activity at the 100 F Operable Unit.
- Excavation activities progressed at 100 F Area waste sites, pipelines, and plumes. Through August, 345,993 tons of waste have been shipped to ERDF during FY01.
- The 100 F Area remediation contractor ceased operations in July (non-Hanford-related issues). A restart readiness assessment checklist was completed, and an interim subcontractor resumed excavation on July 16.
- A pre-bid walkdown was conducted for the remaining workscope at the Group 4 (F, H, and K Areas) reactor areas. Three proposals were received and evaluated.

100 H Area Remediation (M-16-26C)

- Backfill operations were completed at the 100 H Area on July 19 (more than two months ahead of schedule), which satisfies TPA Milestone M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as Defined in the RDR/RAWP for the 100 Area," due September 30.

100 N Area Remediation

- Demolition, size reduction, and excavation activities were completed during July on the 116-N-3 bypass structure.
- Demolition and size reduction of the 116-N-3 pipeline, associated buildings, and valve structures are nearing completion.
- In August, potholing activities were completed at 116-N-1 to characterize the site for access and remediation activities. Initial laboratory results confirmed an estimated 20,000 tons of additional contaminated material will require excavation.

300 Area Remediation (M-16-03E, -03F, -03G, -03H, -03I)

- During August, a plan was developed and a coordination meeting was held that identified all required actions to support shipment and disposal of the 618-4 Burial Ground drums

containing granular uranium oxide. The drums will be disposed at ERDF by the end of September.

- A baseline change proposal (BCP) was approved to accelerate the 618-4 Burial Ground remediation. The BCP included preparation of an integrated 618-4 and 618-5 Burial Ground design and bid package. The RFP is on schedule for release in October. The 618-4 Burial Ground drum staging evaluation was also presented to RL. The evaluation indicated ERDF to be the most feasible option. The evaluation also indicated that regulatory approval would be time critical for implementation of this option.
- On August 28, TPA change request M-16-01-03 was approved that deleted M-16-03E and M-16-03F; and also added three new outyear milestones (M-16-03G, -03H, -03I).

300/600 Area Remediation (M-16-41A)

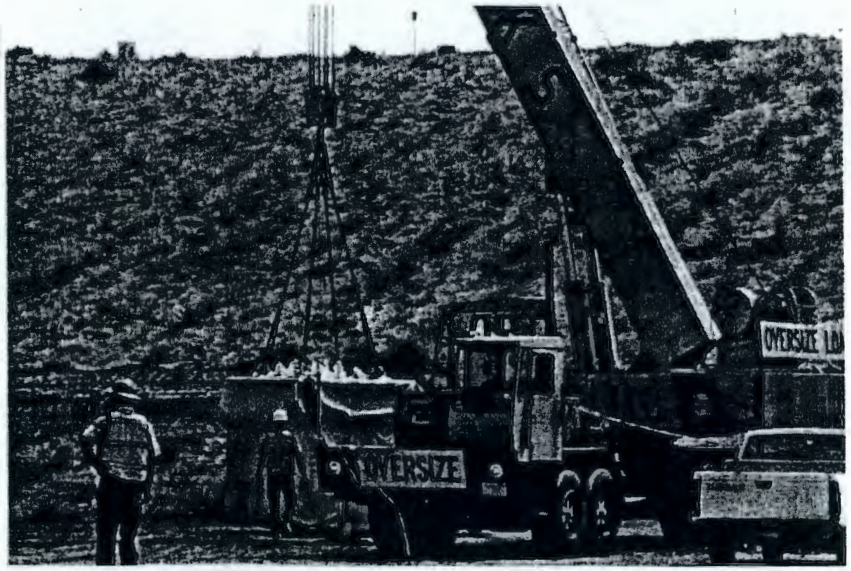
- Excavation and sampling activities were completed at the 600-23 waste site on July 25, which satisfies TPA Milestone M-16-41A, "Complete Remedial Action Excavation for J.A. Jones 1 and 600-23 Waste Sites," due July 31.

100/300 Area Design/Assessment

- Three documents were transmitted to RL and the regulators for review and comment. The documents were the *100 Area Remedial Action Sampling and Analysis Plan* (Rev. 3), the *Remedial Design Report/Remedial Action Work Plan (RDR/RAWP) for the 100 Area* (Rev. 3), and the *100 Area Burial Grounds Sampling and Analysis Plan*, (Draft A). A meeting was held on July 16 with the regulators to discuss these documents.
- The 100 B/C Burial Ground 60% design package was issued on August 1.
- Preparation was initiated for the RDR/RAWP for twelve 300-FF-2 waste sites.

ERDF Operations

- During June, ERDF disposal operations began disposing waste in Cell #3.
- On July 2, ERDF marked its five-year anniversary of disposal operations while also observing receipt of 2,721,540 metric tons (3,000,000 tons) of contaminated waste without a lost-time accident. Since project inception in 1996, the ERDF transportation team has also driven 8,445,641 kilometers (5,249,000 miles) without an at-fault accident.
- During August, six ion exchange modules were transported from K Basin to ERDF for disposal.
- Through August, 557,990 tons of waste have been received at ERDF in FY01, which is about 2% behind the plan. To date, a total of 3,100,772 tons of material have been disposed in ERDF.



Placing Ion Exchange Modules from the K Basin Project at ERDF

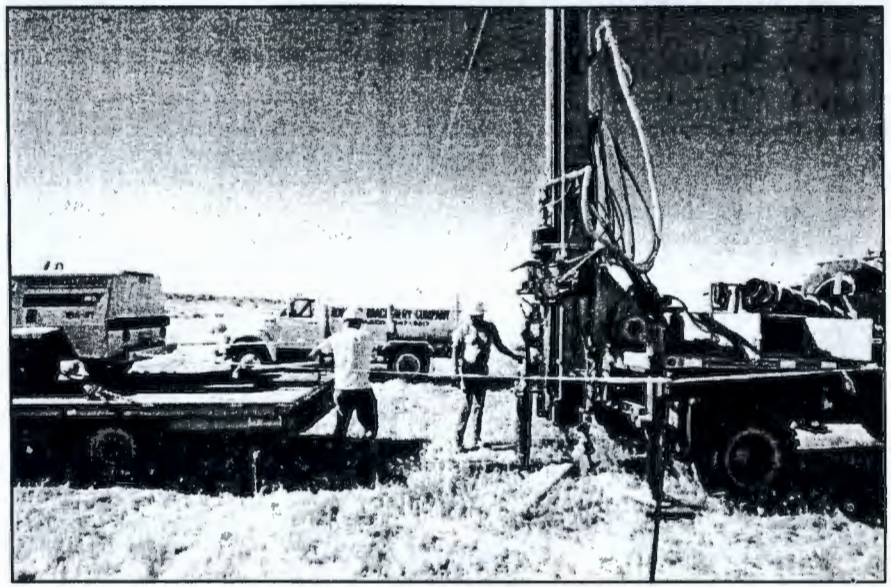
GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

Groundwater/Vadose Zone (GW/VZ) Integration Project

- Biological fate and transport experiments were initiated in June. These experiments will help determine the impacts of technetium-99 on aquatic species.
- The semi-annual congressional report was completed and distributed to HQ in July.
- The Science and Technology program received positive marks from the 18-month review by the National Research Council, which is a part of the National Academy of Sciences. A formal report, *Science and Technology for Environmental Cleanup at Hanford*, was issued publicly on August 3.
- The first module of the virtual library was deployed on August 24. The library is a Web-based application that provides data important for Hanford Site characterization and contaminant transport modeling.
- Calculations were completed for the initial risk assessment using SAC Rev. 0.

Groundwater Management (M-24-00M, M-24-51 through 55, M-16-27)

- Eleven RCRA wells are planned for installation by December 31, 2001 under M-24-00M. Six wells will be installed for ORP; five wells will be installed for RL. Through August, four ORP wells have been drilled, and drilling has been started for one RL well.
- During June, well installation operations were completed for Phase II (28 barrier wells and 4 compliance wells) of the In Situ Redox Manipulation (ISRM) Project. Through August, 19 of 28 FY01 well injections were completed for ISRM barrier emplacements. Remaining planned injections will be completed by the end of September.
- In July, the SAP was approved for the carbon tetrachloride investigation. The drilling contract was also awarded for the PFP well.



Preparing for Cement Grouting During Well Decommissioning

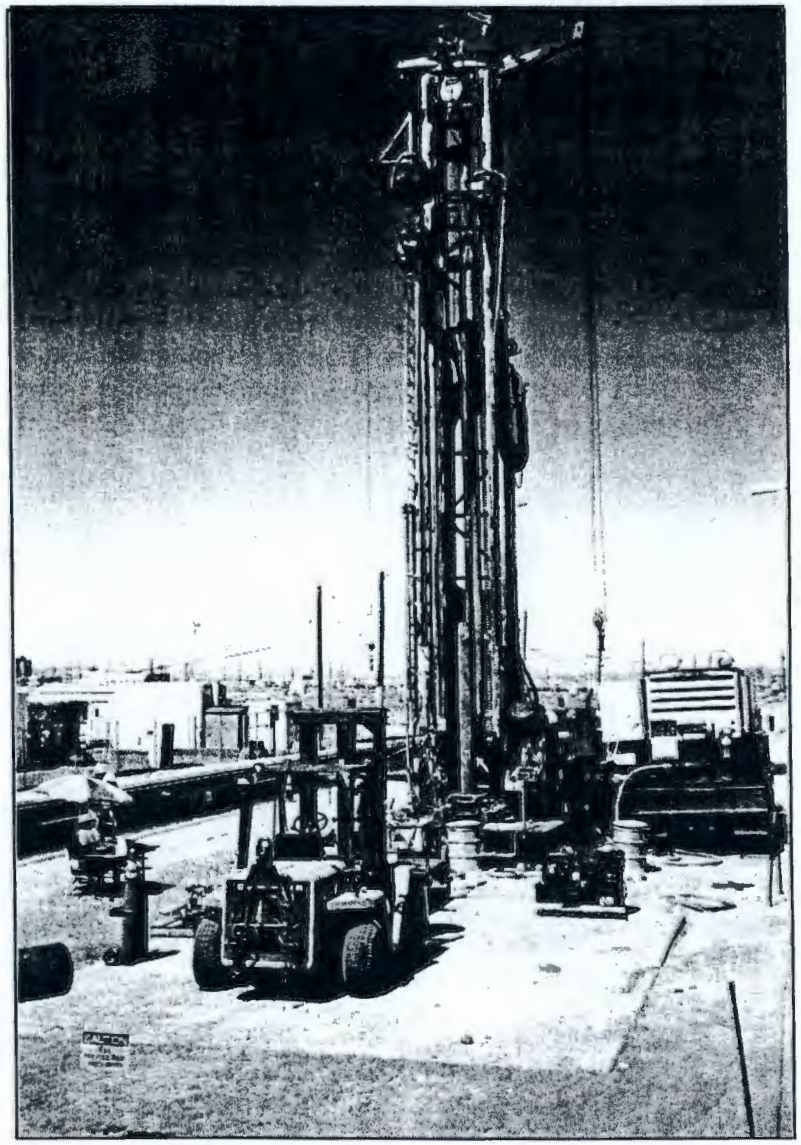
- Groundwater monitoring well installation was completed at the 200-UP-1 groundwater operable unit.
- Decommissioning was completed for all 90 wells planned for FY01.
- Borehole drilling was initiated on August 16 in support of the 618-11 Burial Ground tritium investigation.
- All groundwater pump and treat systems operated above the planned 90% availability levels in August. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,722 kilograms of carbon tetrachloride, 257 kilograms of chromium, and 1.07 curies of strontium. Approximately 1 billion liters of groundwater have been processed in FY01, removing approximately 1,141 kilograms of carbon tetrachloride, 64 kilograms of chromium, and 0.18 curies of strontium.

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

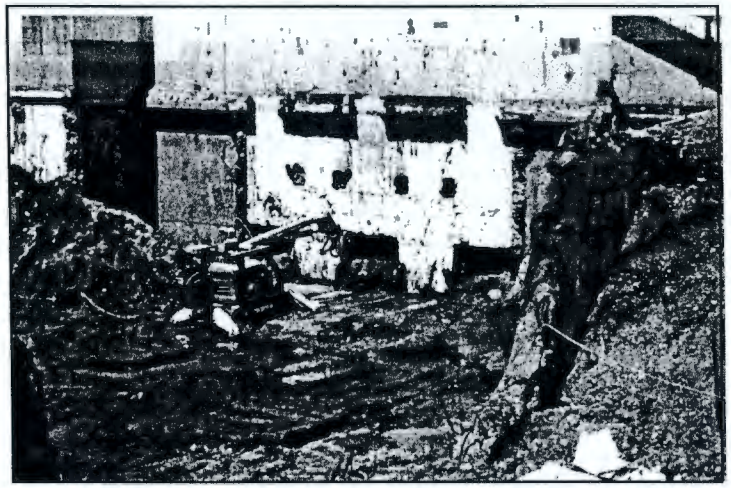
- Approximately 148 million liters of vapor were processed through the 200-ZP-2 soil vapor extraction system during August, removing 123 kilograms of carbon tetrachloride. Approximately 2 billion liters have been processed in FY01, with 512 kilograms of carbon tetrachloride removed.

200 Area Assessment (M-13-26, M-13-00L, M-15-41, M-15-42, M-15-38A)

- During June, separate briefings were presented to the Yakama Tribal Nation, Washington State Department of Fish and Wildlife, and the Natural Resources Trustee Council on the strategy and current status of collecting and evaluating ecological resource information for the Central Plateau. In July, the 200 Area ecological evaluation strategy and approach were also reviewed with a representative from the Nez Perce Tribal Nation.
- Drilling, sampling, and geophysical logging operations were completed at the 216-T-26 Crib on July 20. This satisfies FY02 TPA Milestone M-15-41A, "Complete 200-TW-1 Operable Unit Field Work Through Drilling and Sample Collection," (due October 31) more than three months ahead of schedule.
- The 200-PW-2 Remedial Investigation/Feasibility Study (RI/FS) Work Plan Rev. 0 was transmitted to Ecology in July.
- Transport modeling runs were completed in July for B Pond and B Ditches in support of the 200-CW-1 Operable Unit feasibility study.
- Drilling, sampling, geophysical logging, and decommissioning of the 216-B-38 borehole operations were completed during August.



Air Rotary Rig at 241-U Tank Farm



Discharge Chute Cleanout at F Reactor Using the Brokk™ Excavator

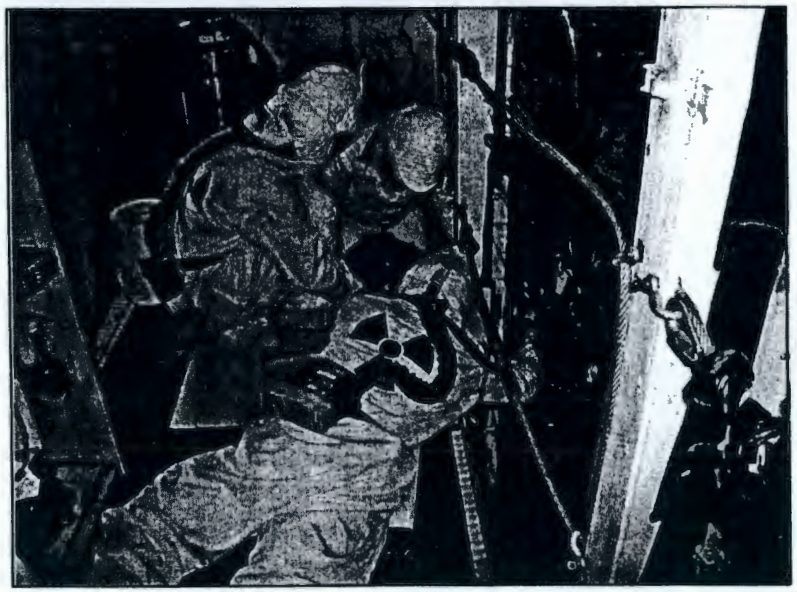
F and DR Reactors ISS (M-93)

- The F Reactor Fuel Storage Basin (FSB) waste designation sampling analysis results were received on July 16. Results indicated the lower fill/sludge waste can be designated as radioactive (non-TRU) nonregulated waste.
- During July, the Brokk™ excavator was used in completing cleanout of the FSB discharge chutes, fuel basket removal and staging, and refilling sampling holes.
- During August, the Brokk™ excavator was used in excavating two hot spots located in the FSB. One suspect fuel piece was found during excavation in early September and later confirmed to be fuel.
- The F Reactor safe storage enclosure (SSE) 25% roof design was reviewed, and comments were provided to the subcontractor. Design walkdowns were completed for the DR Reactor SSE on July 12, and the 25% roof design was received on July 31.
- Through August, F Reactor ISS is 73% complete (FY01 planned is 77%); DR Reactor ISS is 84.5% complete (FY01 planned is 85%).

D and H Reactors ISS (M-93)

- The D and H Reactor Sampling and Analysis Plans were approved by Ecology, with no comments.
- Good progress continued in completing liquid pipe checks and hazardous material removal in both D and H Reactors.
- At the D Reactor FSB, a radiological survey was completed and all openings were sealed prior to fogging. Fogging technology is a process used to eliminate airborne radioactivity and fix contamination in place remotely without requiring people or equipment to enter the contaminated area. This technology eliminated the need to have five workers below grade in the FSB for several weeks in an average radiation field of 5 mrem/hour. It is estimated that a collective total effective dose equivalent of 1,600 mrem will be saved.
- At H Reactor, samples were taken from the water-filled pits associated with the FSB and transfer pits for off-site analysis.
- As of August, D Reactor ISS is 40% complete (FY01 planned is 47%); H Reactor ISS is 17.5% complete (FY01 planned is 19%).

Demolition of D Reactor Supply Fan Rooms/Seal Pit (Area 3)



Knee Brace Platform Support Installation at 233-S

Vessel L-3 Removal at 233-S

233-S Plutonium Concentration Facility Decommissioning

- Substantial progress continues to be made at the 233-S facility within the confined workspace environment and contamination hazards that are encountered during each entry. Since October 2000, the project has made 2,999 entries into contamination zones with no significant radiological events.
- Through the month of August, 7 of the 9 vessels planned for FY01 have been removed. A total of 15 vessels are scheduled for removal by June 30, 2002.
- Through August, approximately 1,451 feet of process piping have been removed from the process hood and 737 packages have been nondestructively assayed.
- A ventilation system modification, to improve system performance and flow of contamination away from the workers, was completed in July.

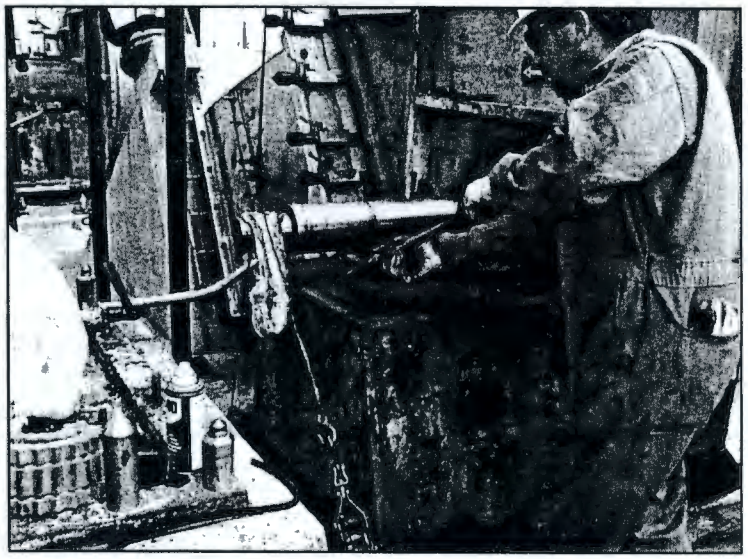
SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

S&M Activities

- Stabilization of the 216-A-42 Retention Basin, Phase II herbicide spraying of all vegetated areas, and all planned asbestos abatement in the 100 N Area were completed in June.
- Roof repairs were completed at the 212-N, 212-R, 221-U, and REDOX facilities.

REDOX Silo Roof Removal

- An evaluation of alternatives for interim stabilization of the hexone tanks in the 200 Area is under review by RL and the regulators.
- Final guidance was issued for implementation of the Inactive Miscellaneous Underground Storage Tank (IMUST) interim storage strategy.
- Interim stabilization commenced at the PUREX E Field. The PUREX E Field is a soil-contaminated area approximately 1.6 hectares (4 acres) in size, and is located in a high-traffic area.
- Passive vent closures and sealing were completed at U Plant and 224-U facility.
- All planned FY01 200 Area asbestos abatement workscope was completed in August.



Exhaust Fan Repair at REDOX

Canyon Disposition Initiative (CDI)

- The draft CDI Phase III feasibility study and proposed plan were submitted to RL for review. This study provides a detailed analysis of several alternatives to be considered for final disposition of the deactivated 221-U (U Plant) chemical processing canyon facility.

B Reactor

- The B Reactor EE/CA public comment and review period was completed in July. An Action Memorandum will be prepared by EPA after comment review.

PROGRAM MANAGEMENT & SUPPORT - ERC

SAFETY AND HEALTH

- During June, annual fire protection assessments were performed at U Plant, B Plant, 224-B, REDOX, and PUREX.
- The ERC Safety and Health personnel participated in the 2001 Hanford Site emergency preparedness field exercise that was conducted in June.
- During July, support was provided to the HQ Office of Independent Assessment during its assessment of Hanford Site emergency preparedness.

ENGINEERING AND TECHNOLOGY

Technology Applications

- The FY02 technology needs package was drafted. The package consisted of science needs statements, technology needs statements, and technology insertion points. A meeting was held with RL and other Hanford Site contractor representatives to plan a Technology Needs Workshop.
- Through August, 9 technologies have been deployed this FY.

Environmental Technologies

- At the June 2001 DOE Pollution Prevention Conference in Albuquerque, New Mexico, BHI received a national pollution prevention award for its work and implementation of the Small Diameter Geophysical Logging System. BHI also received a runner-up award for using value methodology in assessing waste minimization opportunities.
- During July, a BHI risk assessment coordinator received a National Environmental Excellence Award from the National Association of Environmental Professionals. The award was presented for participation on the DOE Biota Dose Assessment Committee during the development of the graded approach for evaluating radiation doses to aquatic and terrestrial biota.

PROGRAM AND PROJECT SUPPORT

External Affairs

- Final comments from RL, regulators, and the Hanford Advisory Board were incorporated into the *TPA Community Relations Plan.* The plan was distributed to the information repositories on August 27 for public review and comment.
- Hanford Site tours were coordinated for congressional staff and the DOE Assistant Secretary for Environmental Management. An ER Project briefing was also held for the visitors.

Procurement and Property Management

- ERC continues to meet or exceed socio-economic contracting goals for FY01. Goals are related to small, women-owned, and disadvantaged-owned businesses.

PLANNING AND CONTROLS

Strategic Planning/Baseline

- FY02 DWP Management Reviews were held on August 28-29. Representatives from ERC, RL, HQ, regulatory agencies, and stakeholders were in attendance.
- FY03 budget development efforts and various FY02 funding exercises continued.

ISSUES

REMEDIAL ACTION / GROUNDWATER/VADOSE ZONE INTEGRATION PROJECTS

- **M-16-00F - Establish Date for Completion of All 100 Area Remedial Actions:** This milestone is due on December 31, 2001 and will develop the date and workscope for any remaining remedial actions in the 100 Area. Currently, most of these remedial actions are in the 100 Area Long Range Plan (miscellaneous pipelines are still being developed). TPA Major Milestone M-16-00 compliance date is September 30, 2018.

- **M-13-00L - Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans:** TPA Milestone M-13-00L requires the submittal of three 200 NPL RI/FS work plans by December 31, 2001. One work plan is in process (200-PW-1).

- **Remaining M-13-00x and M-20-xx Milestones:** TPA Milestones M-13-00x require submittal of 3-4 work plans per year such that the RI/FS's for the past practices waste sites will be completed by December 31, 2005. TPA Milestones M-20-xx require the completion of RCRA closure plans by February 28, 2004.

  Strategy/Status: RL's goal for the next several months is to initiate the negotiation process on M-13, 15, 16, and 20 for the 100, 200, and 300 Areas and resolve as many of the priority issues as possible. RL's target for a tentative agreement is December 31, 2001. The public involvement period associated with changing the TPA major milestones would commence following the Tri-Parties reaching a tentative agreement. The preceding milestones will be considered within the context of these overall negotiations.

DECOMMISSIONING PROJECTS

- **D and H Reactor Impacts of TPA Milestones:** The acceleration of the reactor ISS projects is no longer consistent with the existing M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12 due February 28, 2002) for DR Reactor.

  Strategy/Status: Initial discussions with the regulators have started which may lead to resolution in the near future. This will need to be discussed as part of RL's 100 Area acceleration vision.

PROGRAM MANAGEMENT AND SUPPORT

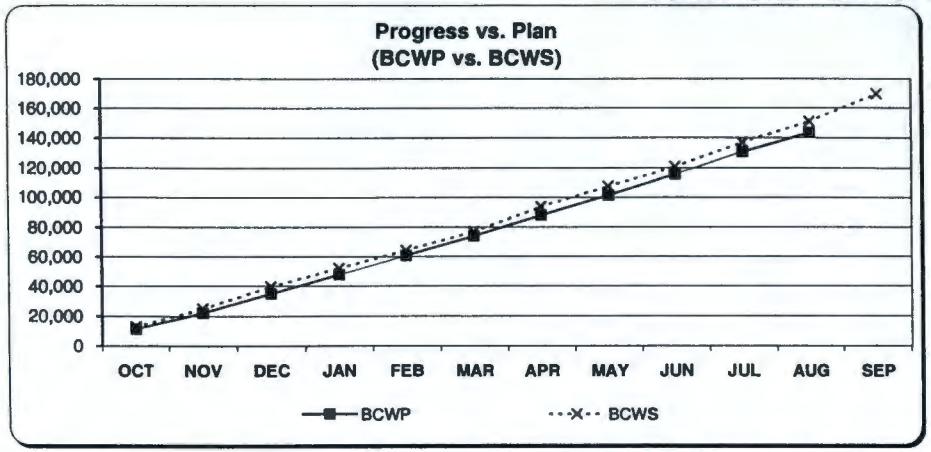
- **Budgets Do Not Support Compliance Milestones:** FY02 ER funding (target) levels are below minimum compliance requirements. The budget update (target) initially submitted for FY02 reflected the ER scope within the revised Hanford Site Project Baseline Summary (PBS)/Work Breakdown Structure (WBS) at a level significantly short of supporting minimum compliance requirements, as well as accelerated River Corridor completion goals, for FY02 and beyond.

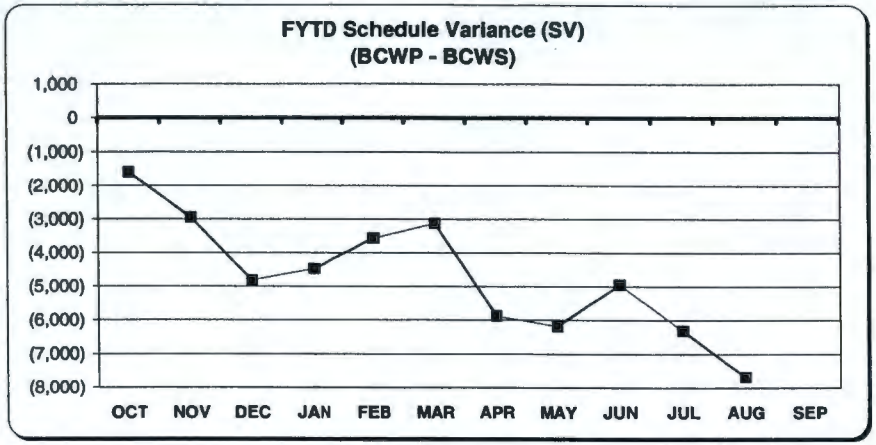
  Strategy/Status: The budget requirement for FY02, based on the current PBS/WBS and ER scope as reflected in the latest baseline update, is $182.3M. FY02 impacts on ER/River Corridor completion have been developed for ER target case exercises. The FY02 Detailed Work Plan (DWP) is being developed using DOE DWP funding guidance at $160.8M for FY02 (with additional authorization planning up to the baseline level). This level of funding reflects continuation of ER scope/activities into FY02, pending final funding guidance. Baseline scope adjustments to reflect final funding guidance will be made in FY02 via change control.

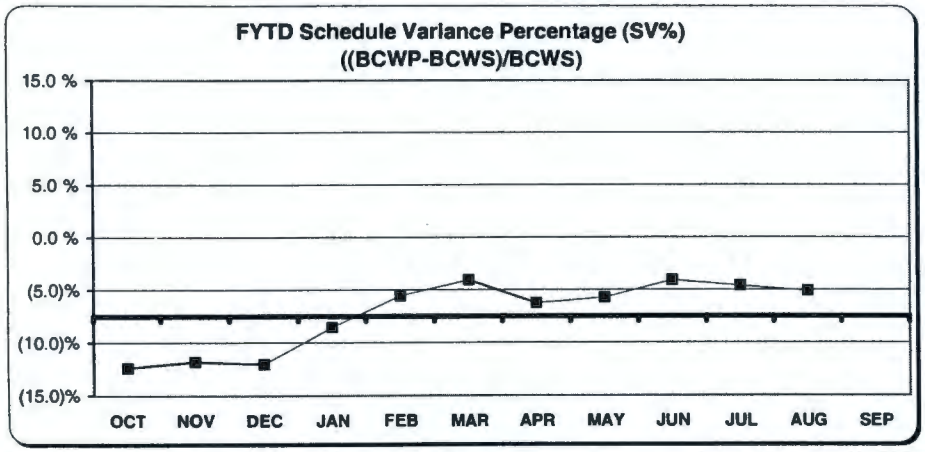
COST/SCHEDULE STATUS

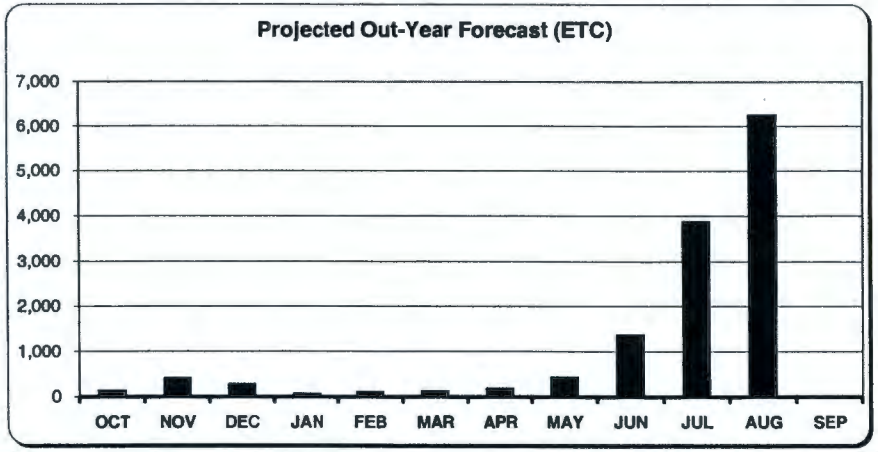
A. PROJECT OVERVIEW

SCHEDULE PERFORMANCE ($s in 000)





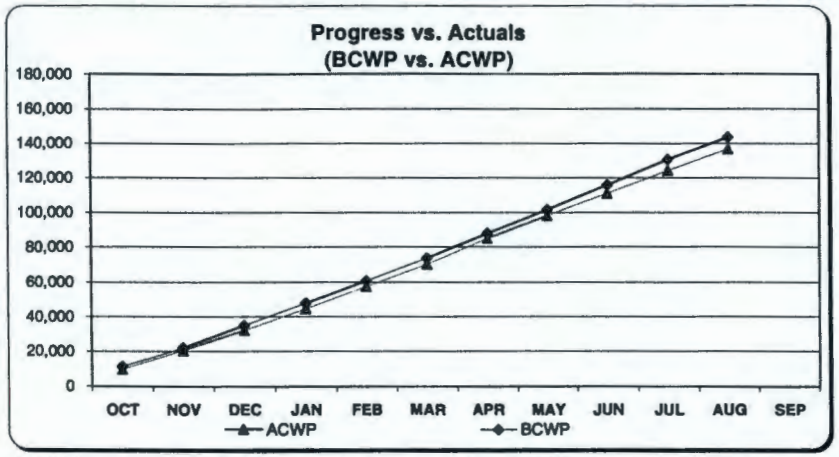


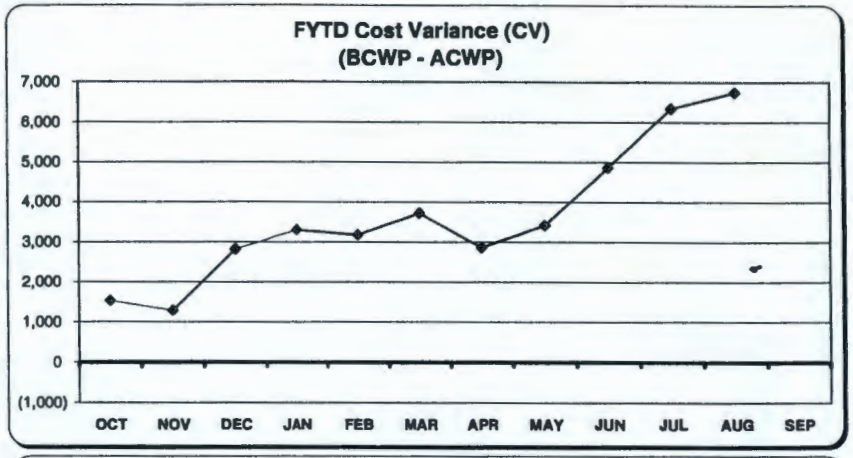


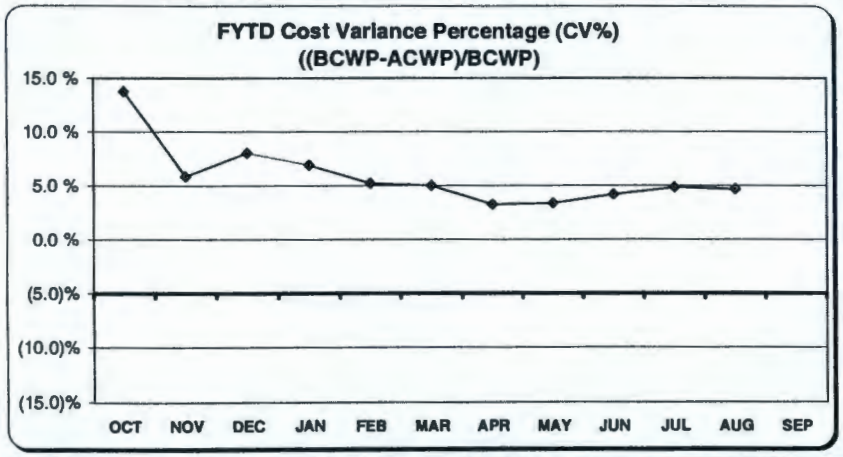
-	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Cumulative)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,418	12,003	12,656	16,859	13,957	13,038	16,158	14,253	18,518
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660	14,262	14,805	12,871	-
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,322	76,978	93,836	107,793	120,831	136,989	151,241	169,759
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614	115,876	130,681	143,553	-
SV	(1,587)	(2,940)	(4,815)	(4,479)	(3,566)	(3,121)	(5,882)	(6,179)	(4,955)	(6,307)	(7,688)	-
SV%	-12.4%	-11.8%	-12.1%	-8.6%	-5.5%	-4.1%	-6.3%	-5.7%	-4.1%	-4.6%	-5.1%	
Projected Out-Year FCST	133	413	272	69	106	117	177	432	1,358	3,878	6,265	-

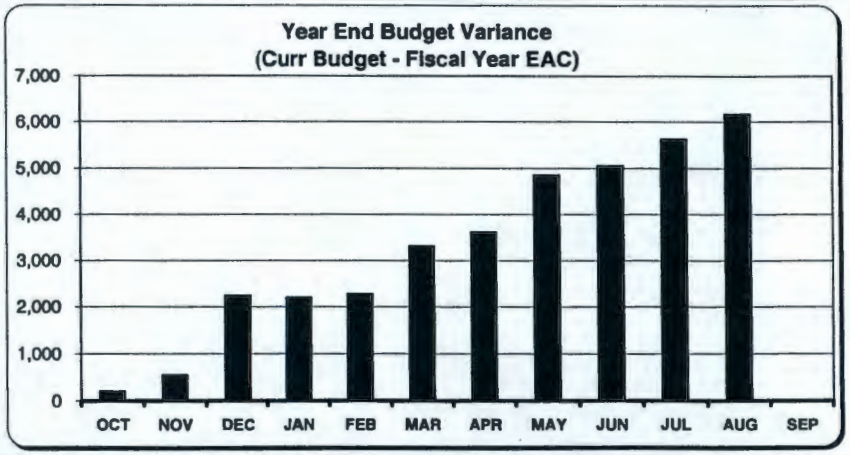
A. PROJECT OVERVIEW

COST PERFORMANCE ($s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274	13,040	12,559	14,963	13,102	12,815	13,323	12,469	-	
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098	13,660	14,262	14,805	12,871	-	
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017	124,339	136,808	-	
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955	101,614	115,876	130,681	143,553	-	
CV	1,539	1,290	2,820	3,301	3,177	3,720	2,855	3,412	4,860	6,342	6,745	-	
CV%	13.7%	5.9%	8.0%	6.9%	5.2%	5.0%	3.2%	3.4%	4.2%	4.9%	4.7%		
EAC (Cumulative)	9,656	20,654	32,264	44,538	57,578	70,137	85,100	98,202	111,017	124,339	136,808	157,324	163,589
Yr End Budget Var	195	544	2,241	2,200	2,274	3,316	3,610	4,856	5,051	5,628	6,170	-	6,265

Schedule Variance Report

Project	Variance	Reason	Corrective Actions
ER01 – 100 Area Remedial Action	**($730K)**	Pipeline excavation activities at 100-FR are behind schedule due to subcontractor termination, additional work on plumes, and confirmation sampling activities; lab analysis work at 100-NR-1 is behind schedule due to additional work on plumes.	Will monitor excavation activities; closeout verification activities for 116-N-3, demolition activities for 116-N-1 trench, and 8,000 tons of 116-N-3 plume material have been identified as carryover.
ER02 - 200 Area Remedial Action	**($367K)**	Delay in TW-2 start of drive casing installation and borehole drilling; difficulties in coordinating the many cross-project field activities slowing progress; offsetting early completion of TW-1 borehole drilling.	Subcontract has been awarded and drilling activities began June 22; schedule supports completion of drilling activities by the end of September. Field closeout and demobilization will carry over to FY02.
ER03 - 300 Area Remedial Action	**($375K)**	Delays in the 300-FF-1 remediation contract closeout and 300-FF-2 Kd leachability study.	Subcontractor is reviewing options and subcontract waste stream disposal is being studied; Kd leachability study activities will be performed concurrently, compressing the schedule.
ER04 – Environmental Restoration Waste Disposal	**($258K)**	Less waste was transported and disposed than planned.	N/A
ER05 – Surveillance/ Maintenance & Transition	**($173K)**	RCRA interim stabilization delayed due to resources being utilized to install a road in support of BNI core drilling efforts in the 200 Area.	Full schedule recovery is expected.
ER06 – Decommissioning Projects	**($296K)**	F Reactor FSB demolition and loadout are behind schedule due to the inability of equipment to dig out transfer pit, and the Brokk excavator being inoperable 40% of the time for repair. 233-S facility is behind schedule due to waste disposal issues, and nondestructive assay (NDA) labor support was not available.	A recovery schedule is being developed and overtime will be worked for F Reactor. 233-S schedule continues to improve; selective overtime will continue to be used to recover the schedule; continue to look for better ways to accomplish work safely.
ER07 - Long-Term SM&T	**($3K)**	N/A. Total FY01 BCWS is $59K.	N/A

Schedule Variance Report

Project	Variance	Reason	Corrective Actions
ER08 - Groundwater Management	($2,409K)	1) RCRA well drilling delayed due to waste shipments being placed on hold to pursue regulator recommended approach, and relocation of three wells causing use of an additional drill rig to expedite work. 2) ISRM injections are behind schedule due to very low well extraction rates along the western portion of the Phase II barrier. 3) 200-ZP-1 PFP drilling activities are behind schedule due to 618-11 Burial Ground drilling taking priority over limited resources; GAC regeneration shipment delayed due to increased analysis and designation priorities. 4) Groundwater Monitoring Network Design awaiting regulator decision on Low Level Burial Grounds (LLBG) and RCRA boundary; revision of A-29 Ditch Plan on hold pending Ecology letter and subsequent B Pond proposal review. Hydrologic testing had been delayed pending regulator approval of the test plan.	1) Aggressive schedule in place; some schedule recovery identified; three drill rigs being used rather than two; waste disposal will carry over to FY02. 2) Low flow well pumps and stand alone discharge equipment have been procured to expedite injections and extractions. Injections expected to be completed in FY01; four extractions identified for carryover. 3) PFP well drilling activities and GAC shipment have been identified for carryover. 4) Agreement was reached by RL and FH on the WMA boundaries for the LLBG; Ecology resolution is ongoing; scope will be carried over to FY02; hydrologic testing fieldwork continues and schedule is being recovered, but completion of the final report will carryover to FY02.
VZ01- Site-Wide Groundwater/Vadose Zone Integration Project	($1,105K)	1) System Assessment Capability (SAC) shakedown runs for historical matching took longer than anticipated, delaying the start of the model runs, preparation of the assessment report, and peer review of history matching results. 2) The Soil Inventory S&T Task study did not start as scheduled due to key PNNL staff on medical leave. 3) S&T experimental work on B-BX-BY tank farm samples delayed due to unanticipated low uranium concentrations and Office of River Protection (ORP) stand down.	1) Several software and data problems have been identified, and are being addressed. Delay will not impact completion of work scheduled this fiscal year. 2) A plan has been developed to recover a portion of the schedule and additional resources have been on task during August and September; partial carryover has been identified. 3) A plan has been implemented to recover a portion of the schedule, but partial carryover has been identified.
ER10 - Program Management and Support	($1,973K)	ERC performance fee scheduled earlier than booked; and late billing to RL on site-wide assessments.	N/A - temporary delay resulting from accounting practice. RL is discussing billing/timing with other site contractors/ government agencies.
Total	**($7,689K)**		

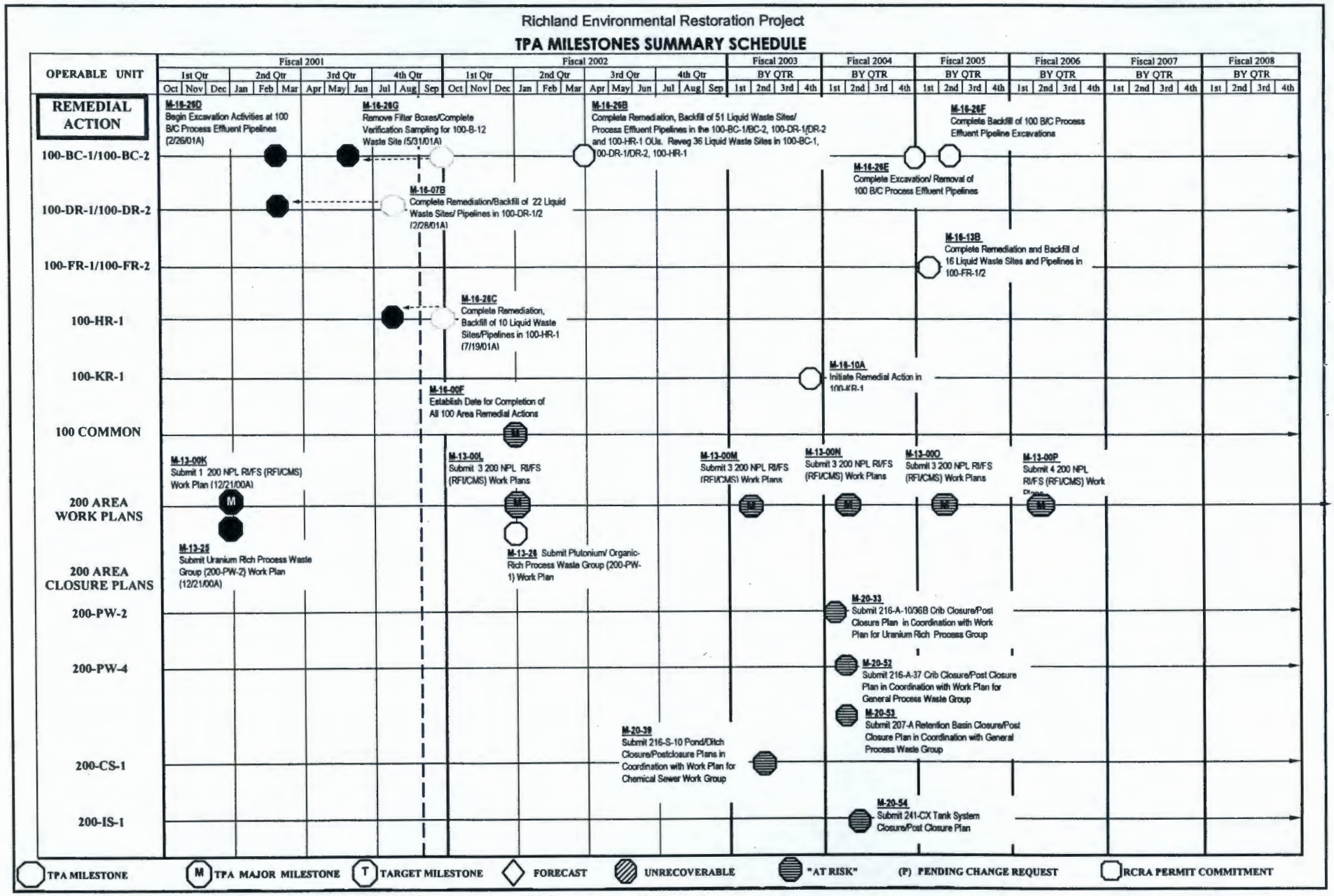
Cost Variance Report

Project	Variance	Reason	Corrective Actions
ER01 – 100 Area Remedial Action	**$1,932K**	1) Less labor was required due to sharing DR site non-manual resources with the 100-BC work scope needs, shifting of personnel to other waste sites, less design and supervision required; DR backfill was completed six weeks early; subcontract costs at 100-BC-1 were less than planned. 2) CVPs continue to require less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites. Estimated completion costs for the lead brick survey have been reduced to reflect actual charges.	Reflected in the EAC.
ER02 – 200 Area Remedial Action	**$743K**	200-TW-2 drilling subcontract costs were less than planned; less effort was required for the drive casings at the B-38 trench.	Reflected in EAC.
ER03 - 300 Area Remedial Action	**$91K**	Coordination of 300-FF-2 and 100 Area Burial Grounds design efforts has resulted in savings; savings from reduced integration requirements for preparation of the Kd sampling and analysis plan.	Reflected in EAC.
ER04 - Environmental Restoration Waste Disposal	**$387K**	Transported additional waste volumes from plumes utilizing existing resources.	Reflected in EAC.
ER05 - Surveillance/ Maintenance & Transition	**$1,024K**	Underruns in 200 Area S&M work on passive vent sealing, waste disposition, roof inspections, and herbicide application subcontract costs; Underruns are offset by hexone tank sampling cost overruns from additional engineering, additional job hazard analysis, and higher mobilization costs.	Underrun/overrun have been trended and are reflected in EAC.

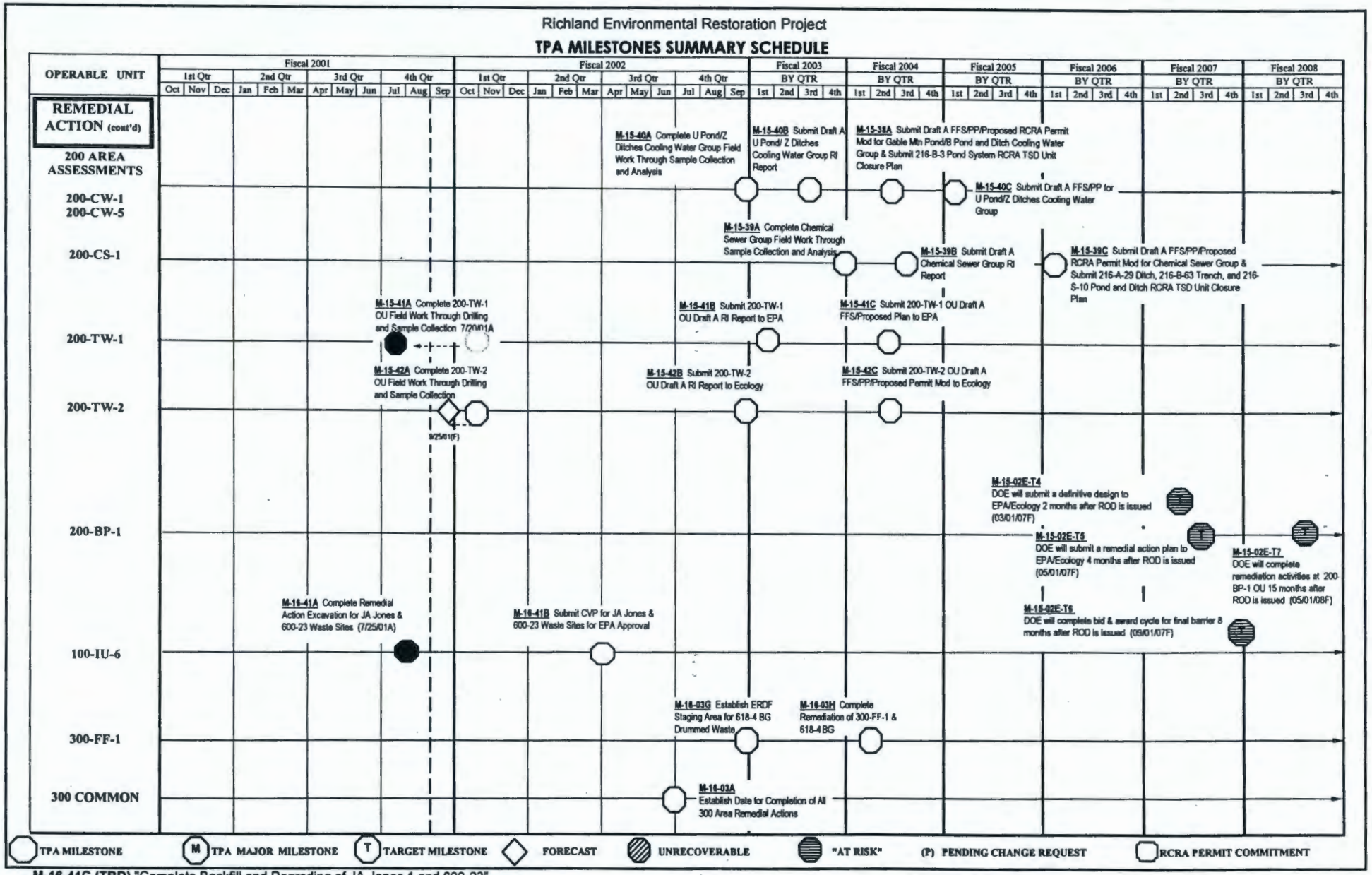
Cost Variance Report

Project	Variance	Reason	Corrective Actions
ER06 - Decommissioning Projects	($438K)	Overrun at the F Reactor FSB due to resolving work package issues while work was on hold; procedural changes resulting in loss in efficiency in removing material from the FSB; and equipment breakdown, weather conditions, and cleaning out hotspots; overrun from a charging practice adjustment; offsetting cost underruns at D, DR, and H ISS projects due to less effort required than planned. 2) Overrun at the 233-S Facility due to PFP calculation error and additional cost resulting from using Canberra for NDA; purchase of Standard Waste Boxes (SWB) and additional tools needed for process hood pipe and vessel removal.	1) Additional costs have been trended and are reflected in the EAC. 2) Overrun has been partially reflected in the EAC.
ER07 - Long-Term SM&T	$22K	N/A. Total FY01 BCWS is $59K.	N/A
ER08 - Groundwater Management	$1,233K	1) Sample analysis underruns due to efficiencies in planning well trips and analyses; savings in well decommissioning subontract costs; and other Hanford contractors' costs being less than planned. 2) ISRM well installation and barrier emplacement costs have been less than planned due to efficiencies in well drilling subcontract costs and chemical purchases.	Underrun has been trended and reflected in EAC.
VZ01 – Site-Wide Groundwater /Vadose Zone Integration Project	$573K	Characterization of Systems (COS) Phase I Features, Events, and Processes (FEP) review required fewer resources than planned; offsetting overrun in System Assessment Capability (SAC) historical matching from system enhancements; S&T underrun due to a credit from FY 2000 accrual reversal.	Underrun will be trended and reflected in the EAC. Work on individual technical element history matching is complete and no additional variances are anticipated. Runtime reductions have been implemented and the project continues to seek ways to streamline the overall history matching and initial assessment runs.
ER10 - Program Management and Support	$1,177K	Records and Document Control, Procurement, Design Engineering, and Sample and Data Management support needs were less than anticipated.	Underrun has been trended and is reflected in the EAC.
Total	$6,744K		

ENVIRONMENTAL RESTORATION PROJECT

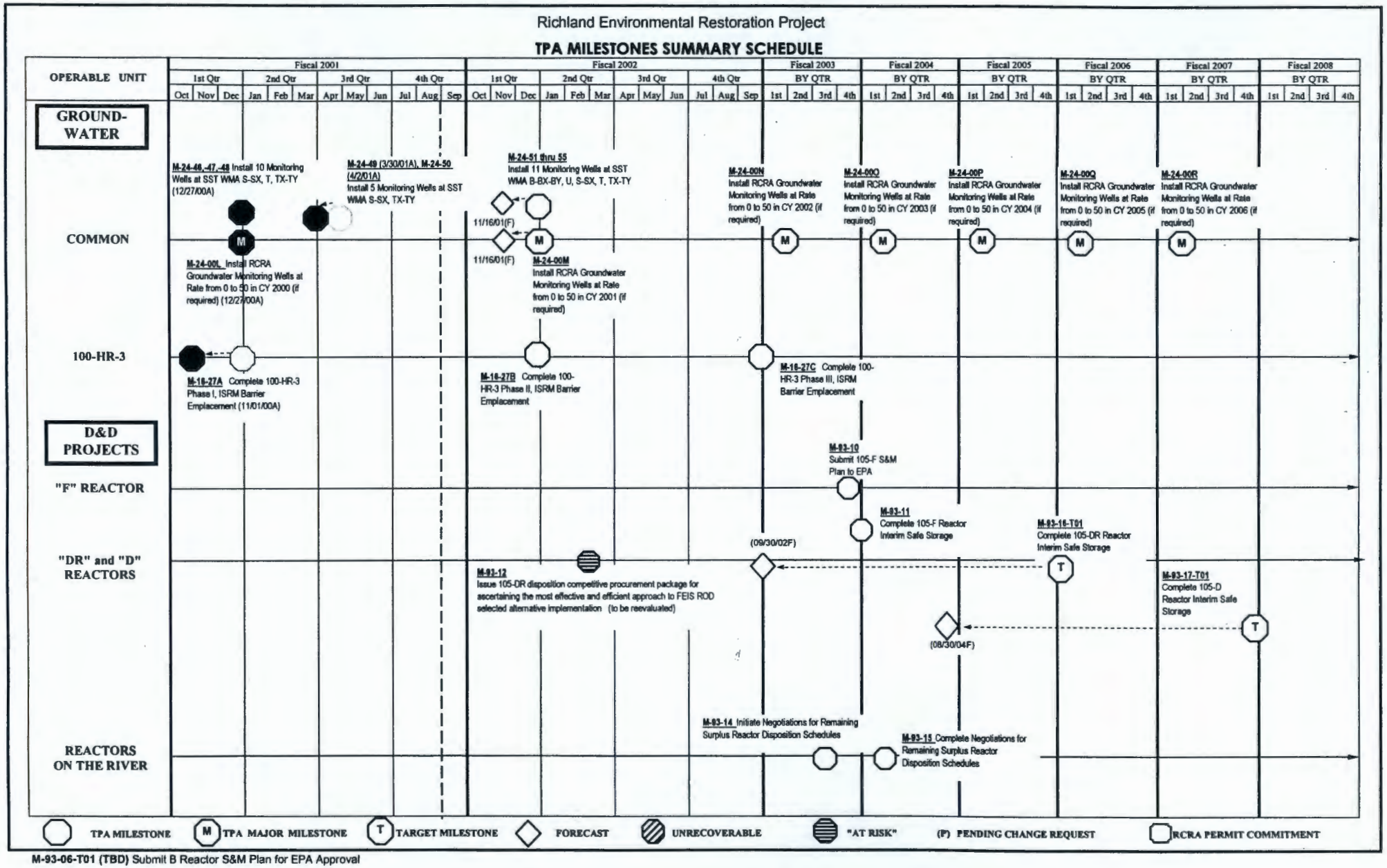


M-13-00 / M-20-xx series milestones shown 'at risk' due to streamlined approach to 200 Area assessment



M-16-41C (TBD) "Complete Backfill and Regrading of JA Jones 1 and 600-23"
M-16-03I (TBD) "Complete Treatment of Drummed Waste from 618-4 Burial Ground"

ENVIRONMENTAL RESTORATION PROJECT



M-93-06-T01 (TBD) Submit B Reactor S&M Plan for EPA Approval

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
Quarterly Presentation
September 25, 2001

G. L. Sinton

DOE Waste Management Division

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
September 25, 2001

- Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually
- Transmitted the CY 2000 LDR Report on June 28, 2001
  - LDR Report is a Primary Document under the Tri-Party Agreement
  - Lead Regulatory Agency has 45-days to respond following receipt of the document (August 13, 2001)
  - Ecology notified RL on August 10, 2001, that a 45-day extension would be required and comments would be provided to RL no later than September 27, 2001

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
September 25, 2001

- A draft change request was included in the CY 2000 LDR Report and proposed treatment/disposal milestones for mixed low-level waste
  - RL believes approval of the change request would result in coverage of all treatability groups by either the Tri-Party Agreement or by other regulatory drivers (I.e., permits)

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
September 25, 2001

- Ecology began an LDR compliance inspection on August 23, 2001
  - Inspection will focus on compliance with the M-26 Milestone and March 29, 2000, Director's Determination
  - Inspection will include multiple contractors
  - Ecology provided a preliminary inspection schedule that indicates the Site visit portion of the inspection should be completed by October 4, 2001.

Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
September 25, 2001

Actions Planned for Next Six Months

- Support LDR Compliance Inspection
- Approval of CY 2000 Final LDR Report (comment response if necessary) and change request
- Issue CY 2001 data call November/December timeframe
- Conduct assessments

TRITIUM TREATMENT TECHNOLOGY UPDATE (TRI-PARTY AGREEMENT MILESTONE M-26-05) QUARTYLY PRESENTATION SEPTEMBER 25, 2001

By
Kevin D. Leary
DOE Waste Management Division

TRITIUM TREATMENT TECHNOLOGY UPDATE
(TRI-PARTY AGREEMENT MILESTONE M-26-05)
QUARTYLY PRESENTATION
SEPTEMBER 25, 2001

- Tritium Technology Bi-Annual Report Completed June 27th, 2001 45-days ahead of the August 31, 2001 Compliance Date

- Work was Accomplished within Budget and Ahead of Schedule

- Next Update will be Provided in 2003 Under Tri-Party Agreement Milestone 26-05I—Interim Milestone

- DOE Personnel Will Be Meeting with WA State Dept. of Ecology October 4th to Discuss Some Minor Issues Regarding Tritium Treatment Technology Development and the Bi-Annual Reports

- Kevin Leary, Formerly of DOE NV Operations Office (NVOO), Will Provide Information On a Tritium Workshop Held in Las Vegas Last Year as Well as Information from Headquarters EM-50 Sub-Contaminant Focus Area's (SCFA) International Work on Tritium to the Contractor (that Prepares the Tritium Reports) for Input into the 2003 Report

Hanford Federal Facility Agreement and Consent Order
IAMIT Milestone Review Form
(For Milestones Without Issues or Significant Activity)
M-26-05H – Tritium Treatment Technology Evaluation

Summary **Date: September 25, 2001**

Report evaluates and provides the status of development of tritium treatment technology and its application for cleanup and management of tritiated wastewater (e.g., 242-A Evaporator process condensate liquid effluent) and tritium contaminated groundwater. Report frequency is biennial. Milestone was completed 45-days ahead of the August 31, 2001 compliance date.

1. **Significant Activities Last Three Months**

Report submitted 45-days early.

2. **Budget Status (within budget or explain variance)**

Work was accomplished within budget and on schedule.

3. **Issues**

None

4. **Non-TPA Regulatory Issues with Potential Impact to TPA Milestone**

N/A

5. **Significant Activities Planned Next Three Months**

None. Report is biennial. Next update will be provided in 2003 under Tri-Party Agreement Milestone M-26-05I. Submit Tritium Treatment Technology Evaluation Report in support of Tri-Party Agreement Interim Milestone
M-26-05H one month ahead of schedule

Note: Approved form to be submitted to IAMIT members 7 days prior to scheduled Milestone Review.

Kevin D. Leary	**F. Jamison**	**D. R. Sherwood**
RL Project Manager	**Ecology Project Manager**	**EPA Project Manager**

Murphy-Fitch, Eileen J

From: Leary, Kevin D
Sent: Tuesday, September 18, 2001 6:50 AM
To: Sherwood, Douglas R; Jamison, Fred (ECY)
Cc: Murphy-Fitch, Eileen J
Subject: IAMITMSREVfrm92501.doc

IAMITMSREVfrm92501.doc

Gentlemen--attached is the IAMIT form for the bi-annual tritium report. I am providing you this form one week prior to the milestone meeting per the agreement.

If you have any questions, please feel free to call me.

Kevin D. Leary
U.S. Dept. of Energy, Richland
(509)-373-7285
E-Mail: kevin_d_leary@rl.gov