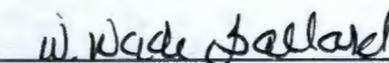


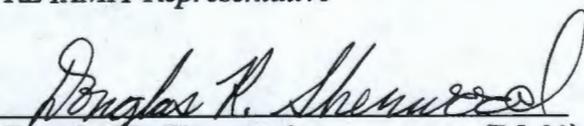
**Meeting Minutes**  
**September 26, 2000**  
**Tri-Party Agreement Milestone Review**

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

Date: 2/12/01

Approval:   
**William W. (Wade) Ballard** (A5-12)  
*RL IAMIT Representative*

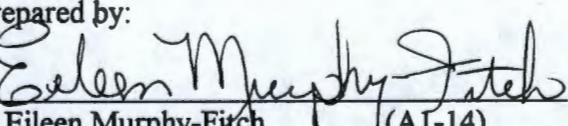
Date: 2/16/01

Approval:   
**Douglas R. Sherwood** (B5-01)  
*Chairperson*  
*EPA IAMIT Representative*

Date: 2/16/01  
**RECEIVED**  
 MAR 12 2001

**EDMC**

Minutes Prepared by:

Approval:   
**Eileen Murphy-Fitch** (A1-14)  
*Fluor Hanford, Inc.*

Date: 2/8/01

Ballard, W. W.	RL	A5-12	Logan, T. E.	BHI	H0-14
Bilson, H. E.	RL	H0-12	Moy, S. K.	RL	H0-12
Blazek, M.	ODOE*		Morrison, R. D.	FH	A1-14*
Boston, H. L.	ORP	H6-60	Murphy-Fitch, E. J.	FH	A1-14*
Clark, C. E.	RL	A5-15	Piippo, R. E.	FH	A1-14
Cummins, G.	FH	A1-14	Price, J.	Ecology	B5-18*
Cusack, L.	Ecology	B5-18*	Richards, J.	CTUIR	
Dagan, E. B.	RL	A5-15	Rodriguez, H. M.	RL/ORP	A5-15
Foley, B. L.	RL	H0-12	Sanders, G. H.	RL	H0-12
Gerton, R.E.	RL	H0-12	Sherwood, D. R.	EPA	B5-01*
Girres, C.	FH	T3-01	Skinnarland, E. R.	Ecology	B5-18
Hales, J. E.	FH	A1-14	Sobczyk, S.	NezPerce	
Hedges, J.	Ecology	B5-18	Stanley, R.	Ecology	Lacey*
Henry, G.	ODOE*		Walsh, J. L.	BHI	H0-11
Hertz, J. S.	FH	A1-14	Wilson, M. A.	Ecology	B5-18
Hughes, M. C.	BHI	H0-14	Wintczak, T. M.	BHI	H0-21
Iwatate, D. F.	FH	A1-14	Warren, R. N.	RL	H0-12
Jarvis, M. F.	RL	A5-15	Wisness, S. H.	RL	A2-15
Jim, R.	Yakama*		Yerxa, J. K.	RL	A5-15
LaRue, D. N.	BHI	H0-11	Administrative Record	EDMC	H6-08*

## **Tri-Party Agreement Milestone Review September 26, 2000**

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### **Environmental Restoration Project**

Through August 2000, the Environmental Restoration (ER) Project has completed 240 Tri-Party Agreement Milestones; 55 milestones remain to be completed. Since the beginning of FY 2000, 16 Tri-Party Agreement Milestones have been completed. Five Tri-Party Agreement Change Requests were approved between June 2000 and August 2000 which added 15 interim milestones to the current fiscal year and outyears.

#### **M-13-00      Complete RI/FS Submittals**

Draft A of the 200-TW-1 Scavenged Waste Group Operable Unit (OU) and 200-TW-2 Tank Waste Group Operable Unit RI/FS Work Plan was transmitted to the regulators on August 14, 2000. This satisfies completion of Tri-Party Agreement milestones M-13-23 and M-13-24.

#### **M-15-00      RI/FS Process Completion**

Three change requests were approved that established interim milestones for the 200-CW-1 OU, the 200-CS-1 OU and the 200-CW-5 OU. Tri-Party Agreement Change Request M-015-00-01 added one interim milestone to implement additional activities for the 200-CW-1 Operable Unit RI/FS process. Tri-Party Agreement Change Request M-015-00-02 added three interim milestones to implement additional activities for the 200-CS-1 OU RI/FS. Tri-Party Agreement Change Request M-015-00-03 added three interim milestones to implement additional activities for the 200-CW-5 OU RI/FS.

#### **M-16-00      Complete Remedial Actions**

FY 2000 remediation work is complete for the 100 B/C, 100 D, 100 H Area and the 300-FF-1. Workscope was initiated early for 100-F and 100-N Areas. A request for proposal (RFP) for the B/C pipeline remediation was issued to potential bidders on August 23, 2000; bids are due to be opened on September 29, 2000. Based on bid proposals received, negotiations may need to begin with the regulators and, if appropriate, a Tri-Party Agreement Change Request prepared. An RFP was issued in June addressing the treatment of the 618-4 Burial Ground drummed uranium waste. Bids were received and a technical review started on August 16, 2000.

The construction contract for the In-Situ Redox Manipulation (ISRM) evaporation pond was awarded in June and construction completed in July. ISRM barrier placement activities were initiated.

The 200-ZP-2 Vapor Extraction System was placed off-line for FY 2000 in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling is underway. ER will proceed with a Partitioning Interwell Tracer Test (PITT) by deepening three wells for dense nonaqueous phase liquid.

## **M-93-00      Disposition of Surplus Reactors**

The B Reactor Museum Feasibility Assessment (Phase II) Project document and the B Reactor Museum Phase II Project Supplemental Cost Estimate document for B Reactor hazards mitigation (outside of the feasibility study scope) were completed. This completed Tri-Party Agreement Milestone M-93-05. The 108-F Biological Laboratory D&D Project Closeout Report was also completed. By utilizing FY 1998 and FY 1999 cost savings, decommissioning of the 108-F Building was accelerated from the outyears with physical demolition completed in September 1999 (five months ahead of schedule). Preparation began on the Engineering Evaluation/Cost Analysis (EE/CA) for B Reactor hazards mitigation. Posting requirements were identified for B Reactor. A total of 22 signs were posted on the tour route. EPA asked what triggered the need for rad training for B Reactor visitors who are being escorted. This is a new requirement and could end all tours until resolved/changed. The EE/CA should address this.

### **Environmental Restoration Issues:**

**BioSite Notice of Correction:** Ecology issued a notice of correction (NOC) to RL on May 31, 2000, for violations and corrections regarding the shipments of mixed solid waste that contacted groundwater that contained listed waste (FY 2001 and FY 2003) and the drums of M-24 drilling waste at the BioSite. A response was submitted on June 26, 2000.

**200-CW-1 IDW Disposal at ERDF:** A request for a contained-in determination was approved for the 200-CW-1 investigation derived waste (IDW) by Ecology. The waste had to be removed from the site by July 14, 2000. Waste was shipped to ERDF with approval from EPA. Disposal into ERDF was delayed pending approval of the 200-CW-1 Work Plan. Approval was received for disposal of 38 drums; 8 drums remain and will require approval prior to disposal.

Other issues addressed are included in the presentation package.

### **Waste Management**

#### **M-19-00      Mixed Waste Treatment**

Stated M-19-00, Complete Treatment and/or Direct Disposals of at Least 1,644 cubic meters of Contact Handled Low-Level Mixed Waste (LLMW) Already in Storage as of October 1, 1995, as well as Newly Generated Hanford Site LLMW, due September 30, 2002.

#### **M-91-00      Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3**

Stated M-91-00, Complete Acquisition of New Facilities, Modification of Existing Facilities, and/or Modification of Planned Facilities Necessary for Storage, Treatment/Processing, and Disposal of All Hanford Site TRU/TRUM, LLMW, and GTC3. IAMIT discussion focused on the need to understand, develop a path forward, and then implement that path forward for activities so they do not remain at an impasse. Need to take a look at the interim milestones and Project Management Plans and find a way to get back on track. Identify what has to be delivered, when it has to be delivered and identify interactions with the regulators.

**AGENDA**  
**TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW**  
**CHAIRPERSON: D. R. Sherwood**

**Tuesday, September 26, 2000**

**712 Swift Blvd., Suite 5, EPA Conference Room**

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-13-00	Complete RI/FS Submittals	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-15-00	RI/FS Process Completion	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-16-00	Complete Remedial Actions	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-24-00	RCRA Well Installation	R. E. Gerton	J. L. Walsh	R. E. Gerton
	M-93-00	Disposition of Surplus Reactors	R. E. Gerton	J. L. Walsh	R. E. Gerton
11:00 am	M-19-00	Mixed Waste Treatment	G. H. Sanders	E. S. Aromi	S. K. Moy
11:20 am	M-91-00	Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3	G. H. Sanders	E. S. Aromi	R. N. Warren
12:00 noon	Adjourn				

**ATTENDEES**

**Tri-Party Agreement Milestone Review  
September 26, 2000**

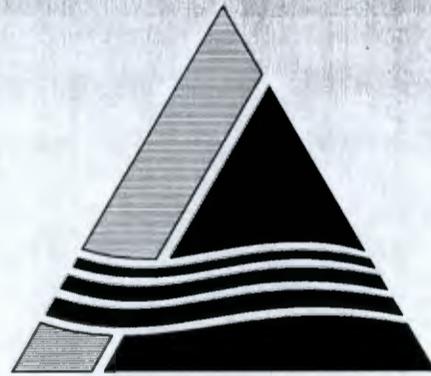
<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
Deborah Wintate	FH/TPAI	A1-14	✓
R. Scott Hojner	BHI	H0-11	
T.E. Logan	BHI		
Clifford E. Clark	DOE-AMI	A2-15	✓
Mike Wilson	ECOLOGY		✓
Laura Cusack	ecology		
John Price	Ecology		
Doug Shepard	EPA		
Don Gerton	DOE		
Jeff Herzog	FH/TPA		
Mary Koublyer	Oregon Energy		✓
DEANNA HENRY	OREGON ENERGY		
Bryan L. Foley	DOE-RL	H0-12	
Gloria Cummins	FH-REC	A1-14	
JOHN WALSH	BHI		
DEENA LA RUE	BHI		
JOE RICHARDS	CTMIR Hanford ops.	750 Swift Suite 12 RICHLAND, WA 99352	REG-mail ✓
Steve Wisness	DOE-RL		
Ron Skinnard	ECOLOGY		
John G. John	DOE-AMEN		
Stan Sobczyk	Nez Perce ERUM		
Russell Warren	DOE-RL/WMD		
Cindy Girres	FH/WMP		



Richland Environmental Restoration Project

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# TPA Quarterly Review



*Tri-Party Agreement*

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

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**September 26, 2000**

# **ENVIRONMENTAL RESTORATION PROJECT**

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- Groundwater/Vadose Zone Integration Project
- Decommissioning Projects
- Surveillance/Maintenance and Transition Projects
- Program Management & Support – ERC

### **4. CURRENT ISSUES**

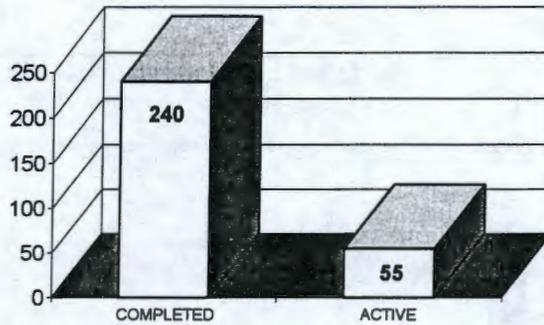
### **5. TECHNOLOGY INSERTION POINTS (TIPs)**

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- Overview
- TPA Schedule
- Project Performance

# ENVIRONMENTAL RESTORATION PROJECT

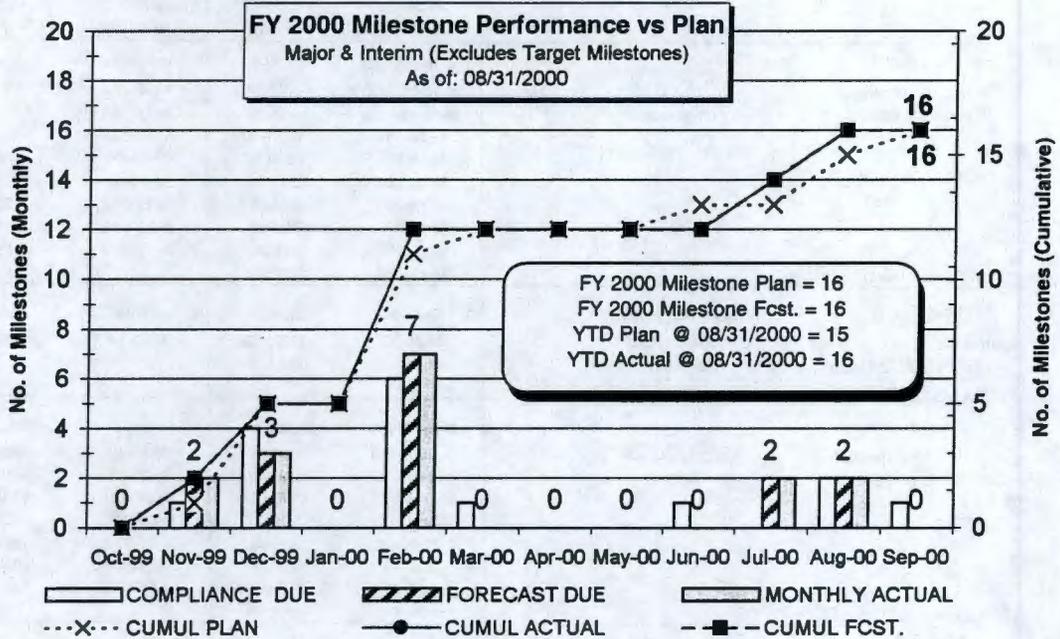
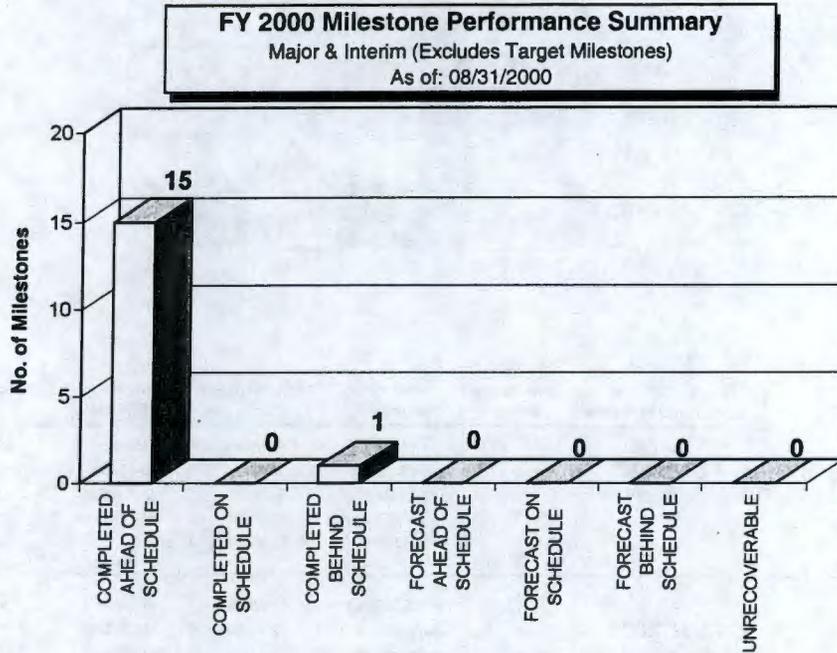
## TPA Milestone Statistics Major & Interim (Excludes Target Milestones)



	Compliance Due Date	Total Active @ 9/00	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
<b>M-13-00</b> Submit Work Plans for RFI/CMS or RI/FS Studies  (Groundwater/Vadose)	<b>12/31/2005</b> (M-13-00P)	<b>8</b>	M-13-22 (C)	12/31/99	M-13-26	6/30/01
			M-13-23 (C)	8/31/00	M-13-00L	12/31/01
			M-13-24 (C)	8/31/00	M-13-00M	12/31/02
			M-13-25	12/31/00	M-13-00N	12/31/03
			M-13-00K	12/31/00	M-13-00O	12/31/04
					M-13-00P	12/31/05
<b>M-15-00</b> Site Investigations / Feasibility Studies  (Groundwater/Vadose)	<b>12/31/2008</b> (M-15-00)	<b>9</b>	M-15-23B (C)	11/30/99	M-15-39A	9/30/03
			M-15-00A (C)	12/31/99	M-15-39B	5/31/04
			M-15-00B (C)	12/31/99	M-15-40C	10/31/04
			M-15-38A	11/30/01	M-15-39C	11/30/05
			M-15-40A	9/30/02	M-15-00C	12/31/08
			M-15-40B	5/31/03	M-15-00	12/31/08
<b>M-16-00</b> Remedial Design / Remedial Action  (Remedial Action / Groundwater)	<b>9/30/2018</b> (M-16-00)	<b>16</b>	M-16-92B (C)	12/31/99	M-16-03A	6/30/02
			M-16-08B (C)	3/31/00	M-16-27C	9/30/02
			M-16-13A (C)	9/29/00	M-16-10A	8/1/03
			M-16-03E	12/31/00	M-16-13B	10/29/04
			M-16-27A	12/31/00	M-16-00	9/30/18
			M-16-26B	2/28/01	M-16-01	TBD
			M-16-26C	5/31/01	M-16-03F	TBD
			M-16-07B	7/31/01	M-16-00A	TBD
			M-16-00F	12/31/01	M-16-00B	TBD
			M-16-27B	12/31/01		
<b>M-20-00</b> Submit Closure Plans for All RCRA TSD Units (Groundwater/Vadose)	<b>2/28/2004</b> (M-20-54) (Shared with PHMC)	<b>5</b>	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		
<b>M-24-00</b> RCRA Groundwater Monitoring  (Groundwater/Vadose)	<b>12/31/2005</b> (M-24-00Q)	<b>11</b>	M-24-41 (C)	2/29/00	M-24-00L	12/31/00
			M-24-42 (C)	2/29/00	M-24-49	4/30/01
			M-24-43 (C)	2/29/00	M-24-50	4/30/01
			M-24-44 (C)	2/29/00	M-24-00M	12/31/01
			M-24-45 (C)	2/29/00	M-24-00N	12/31/02
			M-24-00K(C)	2/29/00	M-24-00O	12/31/03
			M-24-46	12/31/00	M-24-00P	12/31/04
			M-24-47	12/31/00	M-24-00Q	12/31/05
	12/31/00					
<b>M-70-00</b> ERDF Operational	<b>7/01/1996A</b> (M-70-00)	<b>0</b>				
<b>M-93-00</b> Reactors on River Final Disposition  (Decommissioning)	<b>TBD</b> (M-93-00)	<b>6</b>	M-93-05 (C)	6/30/00	M-93-11	9/30/03
			M-93-12	2/28/02	M-93-15	12/31/03
			M-93-14	6/30/03	M-93-00	TBD
			M-93-10	7/31/03		
<b>TOTAL ACTIVE MILESTONES</b>		<b>55</b>	<b>16</b> --- MILESTONES COMPLETED SINCE 10/99(C)			

# ENVIRONMENTAL RESTORATION PROJECT

## FY 2000 TPA MILESTONE PERFORMANCE



# ENVIRONMENTAL RESTORATION PROJECT

## FY 2000 TPA MILESTONE SUMMARY (Excludes Target Milestones)

Item	FY2000 Month	Milestone	Description	Compliance Due Date	Forecast/ Actual Date	Completed			Forecast			Unrecoverable	Deleted
						Ahead Schedule	On Schedule	Behind Schedule	Ahead Schedule	On Schedule	Behind Schedule		
1	Nov-99	M-15-23B	Submit 300-FF-2 Focused Feasibility Study (FFS) and Proposed Plan for Regulator Review	11/30/99	11/22/1999 (A)	X							
2	Dec-99	M-13-22	Submit U Pond/Z Ditches Cooling Water Group Work Plan	12/31/99	12/14/1999 (A)	X							
3		M-15-00A	Complete All Remaining 100 Area Operable Unit Pre-ROD Site Investigations Under Approved Work Plan Schedules (100-KR-2, 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6)	12/31/99	12/21/1999 (A)	X							
4		M-15-00B	Complete All 300 Area Operable Unit Pre-ROD Site Investigations Under Approved Work Plan Schedules	12/31/99	11/22/1999 (A)	X							
5		M-16-92B	ERDF Cells 3 and 4 Ready to Accept Remediation Waste	12/31/99	12/09/1999 (A)	X							
6	Jan-00	C-10-07	Generate Hanford Site Waste Management Unit Status Report	01/31/00	01/25/2000 (A)	(TPA commitment milestone not included in total count)							
7	Feb-00	M-24-00K	Install RCRA Groundwater Monitoring Wells at the Rate of Up to 50 in CY99 if Required	02/29/00	02/17/2000 (A)	X							
8		M-24-41	Install Three (3) Additional RCRA Wells for SST WMA S-SX	02/29/00	02/17/2000 (A)	X							
9		M-24-42	Install One (1) Replacement Well for the 216-S-10 Pond	02/29/00	02/17/2000 (A)	X							
10		M-24-43	Install One (1) Additional RCRA Well for the SST WMA TX-TY	02/29/00	02/17/2000 (A)	X							
11		M-24-44	Install One (1) RCRA Well for the 216-B-3 Pond (This is an extension of a CERCLA vadose borehole.)	02/29/00	02/17/2000 (A)	X							
12		M-24-45	Install Two (2) Additional RCRA Wells for the SST WMA B-BX-BY	02/29/00	02/17/2000 (A)	X							
13	Mar-00	M-16-08B	Complete Remediation and Backfill of 19 Waste Sites in 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	03/31/00	02/25/2000 (A)	X							
14	Jun-00	M-93-05 *	Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment	06/30/00	07/10/2000 (A)			X					
15	Aug-00	M-13-23	Submit 200-TW-1 Work Plan	08/31/00	08/14/2000 (A)	X							
16		M-13-24	Submit 200-TW-2 Work Plan	08/31/00	08/14/2000 (A)	X							
17	Sep-00	M-16-13A	Initiate Remedial Action in the 100-FR-1 Operable Unit	09/29/00	07/10/2000 (A)	X							
<b>TOTAL FY 2000 TPA Milestones</b>				<b>16</b>	<b>16 (A)</b>	<b>15</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Approved TPA Change Package M-16-99-02 (Rev 1) removed Milestone M-16-26C from FY 2000.

Approved TPA Change Package M-16-00-01 removed Milestone M-16-07B from FY 2000.

\* M-93-05 - BHI transmitted documents to RL on June 27; RL transmitted documents to EPA on July 10.

## ENVIRONMENTAL RESTORATION PROJECT

### TPA Change Requests (June - August 2000)

**M-24-00-01A**  
**RCRA Groundwater**  
**Monitoring**  
**Approved - 6/26/00**

This change request established calendar year 2000 and initial calendar year 2001 interim milestones for RCRA well installation.

The following RCRA well locations are in support of Milestone **M-24-00L**, "Install RCRA Groundwater Monitoring Wells at the Rate of Up to 50 in Calendar Year 2000 (if required)", to be completed by **December 31, 2000**:

**M-24-46** - Install Two (2) Additional Wells at SST WMA S-SX

**M-24-47** - Install Four (4) Additional Wells at SST WMA T

**M-24-48** - Install Four (4) Additional Wells at SST WMA TX-TY

The following RCRA well locations are in support of Milestone **M-24-00M**, "Install RCRA Groundwater Monitoring Wells at the Rate of Up to 50 in Calendar Year 2001 (if required)", to be completed by **April 30, 2001**:

**M-24-49** - Install Four (4) Additional Wells at SST WMA S-SX

**M-24-50** - Install One (1) Additional Well at SST WMA TX-TY

**M-16-00-02**  
**ISRM Well**  
**Drilling/Barrier**  
**Implementation**  
**Approved - 6/30/00**

This change request added three interim milestones in support of the In Situ Redox Manipulation Barrier in the 100 D Area:

**M-16-27A (12/31/00)** - Complete Phase I ISRM Barrier Emplacement (Planning, Well Installation, Barrier Emplacement)

**M-16-27B (12/31/01)** - Complete Phase II ISRM Barrier Emplacement (Planning, Well Installation, Barrier Emplacement)

**M-16-27C (09/30/02)** - Complete Phase III ISRM Barrier Emplacement (Planning, Well Installation, Barrier Emplacement)

**M-16-00-03**  
**300-FF-1 Backfill/**  
**Regrade Deferral**  
**Pending**

This change request defers Interim Milestone **M-16-03E**, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground) to Include Excavation, Verification, and Backfilling", from December 31, 2000 to September 30, 2001. Deferral is required while further evaluation of the uranium cleanup level for the 300-FF-2 OU is determined.

## ENVIRONMENTAL RESTORATION PROJECT

### TPA Change Requests (June - August 2000)

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**M-15-00-01**  
**200-CW-1 OU**  
**Assessments**  
**Approved - 8/23/00**

This change request added one interim milestone to implement additional activities for the 200-CW-1 Operable Unit Remedial Investigation/Feasibility Study process:

**M-15-38A (11/30/01)** - Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification

**M-15-00-02**  
**200-CS-1 OU**  
**Assessments**  
**Approved - 8/23/00**

This change request added three interim milestones to implement additional activities for the 200-CS-1 Operable Unit Remedial Investigation/Feasibility Study process:

**M-15-39A (09/30/03)** - Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis

**M-15-39B (05/31/04)** - Submit Draft A Chemical Sewer Group Remedial Investigation Report

**M-15-39C (11/30/05)** - Submit Draft A Chemical Sewer Group Feasibility Study and 216-A-29 Ditch, 216-B-63 Trench, and 216-S-10 Pond and Ditch RCRA TSD Unit Closure Plan and Submit Draft A Chemical Sewer Group Proposed Plan/Proposed RCRA Permit Modification

**M-15-00-03**  
**200-CW-5 OU**  
**Assessments**  
**Approved - 8/23/00**

This change request added three interim milestones to implement additional activities for the 200-CW-5 Operable Unit Remedial Investigation/Feasibility Study process:

**M-15-40A (09/30/02)** - Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis

**M-15-40B (05/31/03)** - Submit Draft A U Pond/Z Ditches Cooling Water Group Remedial Investigation Report

**M-15-40C (10/31/04)** - Submit Draft A U Pond/Z Ditches Cooling Water Group Feasibility Study and Submit Draft A U Pond/Z Ditches Cooling Water Group Proposed Plan

## ENVIRONMENTAL RESTORATION PROJECT

### Proposed TPA Change Requests

M-13-XX  
Proposed

TPA milestones would be changed as follows:

- Interim Milestone M-13-26 (6/30/01) would be reassigned from the Uranium-Rich Process Group (200-PW-4) to the Plutonium/Organic-Rich Process Group (200-PW-1) with no change to the milestone date.
- A new interim milestone (M-13-27) would be established to require submittal of the Draft A Work Plan for the 300 Area Chemical Laboratory Waste Group (200-LW-1) by 6/30/02.

These interim milestone changes are consistent with the TPA Major Milestone M-15-00C to complete the 200 Area operable unit RI/FS process by 2008.

M-20-XX  
Proposed

A TPA change package is being prepared to propose revisions to the schedule for some of these milestones. Priorities in the 200 Area are proposed to change to focus cleanup activities on the highest risk operable units and those operable units which are considered representative of the nine major 200 Area waste groupings. As a result, RL will propose that the closure plans for some TSDs be deferred.

# STATUS BY PROJECT

## REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

### B/C Area Remediation (M-16-26B)

- All FY00 remediation work scheduled for the 100 B/C Area has been completed. During FY00, the Group 1 high-priority, near-river waste sites and the Group 3 small waste sites were completed.
- A Request for Proposal for the B/C pipeline remediation was issued to potential bidders on August 23. Bids are due on September 29. Based on bid proposals received and negotiations with the regulators, a TPA change package will be prepared.

### D Area Remediation

- Excavation of FY00 baseline workscope and known plumes in the 100 D Area was completed on July 24.
- Backfill operations of the Group 2 waste sites (DR high-priority, near-river sites) and pipeline segments approved for backfill have been completed. Backfill was also completed on three other waste sites (116-DR-4, 116-DR-6, 100-D-12).
- Conflicting laboratory results for chromium have delayed backfill concurrence for the 100 D Area north pipeline segment. Additional samples have been collected for independent analysis (by a fourth laboratory).

### F Area Remediation (M-16-13A)

- Remediation activities were initiated in the 100 F Area on July 10, twelve weeks before the required date of September 30. A letter was transmitted to the regulators on July 28 declaring completion of TPA Milestone M-16-13A, "Initiate Remedial Action in the 100-FR-1 Operable Unit".
- Excavation and shipping of contaminated soil from the 116-F-14 retention basin began on July 27. Overburden removal of the 60-inch diameter pipelines north of the retention basin is progressing.



- The wire-line retrieval sampler technology deployment was initiated at the 126-F-1 Ash Pit. This technology utilizes a cone penetrometer. The technology deployment will support closeout verification sampling for the south portion of the ash pit.

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

- Excavation of FY00 baseline workscope and known plumes in the 100 H Area was completed on July 26.
- All variance and confirmation sampling for the 100 H Area excavations was completed on August 24. Preliminary data from the 100 H Area pipeline remediation indicate elevated contamination levels. The source of the contamination is currently being investigated. Additional excavation may be required.

## REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

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### 100 N Area Remediation

- Remedial action began at the 100 N Area on July 21 with the demolition of contaminated cover panels and excavation of material in the 116-N-3 trench. This action meets the requirements in the Hanford Site RCRA permit which mandated remediation to start by the end of July. Extensive dry runs of field operations using noncontaminated material were conducted and evaluated prior to the start of remediation activities, which led to refinement of the work, safety, and ALARA practices.
- Ecology approved the 100-NR-1 TSD sites *Remedial Design Report/Remedial Action Work Plan (RDR/RAWP)* on June 6.
- The 116-N-1/UPR-100-N-31 final design package was signed and issued on August 31.



### 100 Area Burial Ground Record of Decision

- A public meeting was held on June 14 at Hood River, Oregon, regarding the 100 Area Burial Grounds remediation planning. A presentation was given to brief the public on the recommended preferred alternative for the burial grounds, which is the "remove, treat, and dispose alternative". Public comment and questions were also received and addressed during this meeting.
- EPA has prepared the 100 Area Burial Ground ROD, and ERC support is being provided as requested. The estimated signing date is expected to be near the end of September.

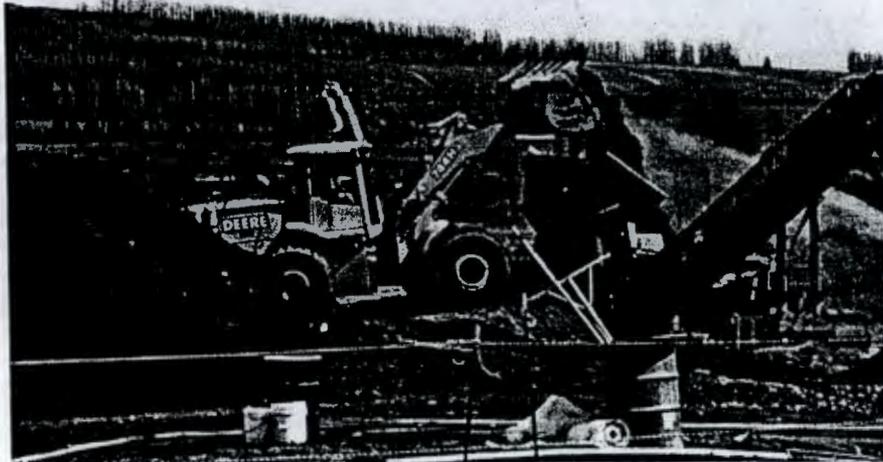
### 300 Area Remediation

- As of July, all contaminated soil from remediation of the 300-FF-1 Operable Unit (with the exception of the 618-4 Burial Ground) has been shipped to the ERDF for disposal. Subcontractor demobilization was completed on August 4.
- All laboratory data have been received from verification samples taken at the South Process Pond and Landfills 1A, 1B and 1D. Data results indicate that all 300-FF-1 ROD cleanup levels were met for all contaminants of concern. Closeout verification packages have been initiated, but are on hold pending possible format/content revision to the current package format.
- An RFP was issued in June addressing the treatment of the 618-4 Burial Ground drummed uranium waste. Bids were received on August 15, and a technical review of the proposals began on August 16.
- On June 29, Revision 0 of the *300-FF-2 Operable Unit Focused Feasibility Study (FFS) and Proposed Plan* was transmitted to the regulators. Public comment period began on July 3, and will extend through September 5 based on a stakeholder request.

## REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

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- A DQO meeting was held for the 300-FF-2 Operable Unit distribution coefficient ( $K_d$ ) and leachability study during the last week of August.
- Explanation of Significant Differences (ESD) transferring two 300-FF-2 sites (J.A. Jones 1 and 600-23) to the Remaining Sites ROD, and 300-FF-2 groundwater to the 300-FF-5 ROD were approved by RL, EPA, and Ecology in June.



### ERDF Operations

- On June 7, the first shipment of waste was placed into Cell #4 at the ERDF. Two of the ERDF perimeter air monitors were relocated in order to support operations in the newly opened Cell #4.
- The Management of Change (MOC) for ERDF Safety Analysis was approved. The MOC addresses the receipt of wastes from the 100-N cribs remediation and the SNF K-Basin Project. The hazard classification for ERDF will remain "radiological". The ERDF received the first waste shipment from the SNF Project on June 26.
- ERDF operations were curtailed from the morning of June 28 through swing shift of June 30 due to the Hanford Site range fire. Some vegetation within the ERDF fence was burned, but no other damage occurred. Operations resumed without incident on July 3.
- During July, the ERDF disposal operations achieved 1,500 days without a lost time accident. This record dates back to the start of operations in July 1996.
- The ERDF staff hosted personnel from the Oak Ridge Environmental Management Waste Management Facility Project the week of July 10 to convey lessons learned from construction and operation of the ERDF.
- The interim cover is being installed over ERDF Cells #1 and #2. The installation will be completed by September 30. The interim cover will consist of a vapor barrier covered with fill dirt and native vegetation.
- Through August, 549,643 metric tons (605,881 tons) have been received in FY00 (2% more than planned). To date, 2,276,628 metric tons (2,509,556 tons) of material have been received and placed in the disposal facility (1% more than planned).

## GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

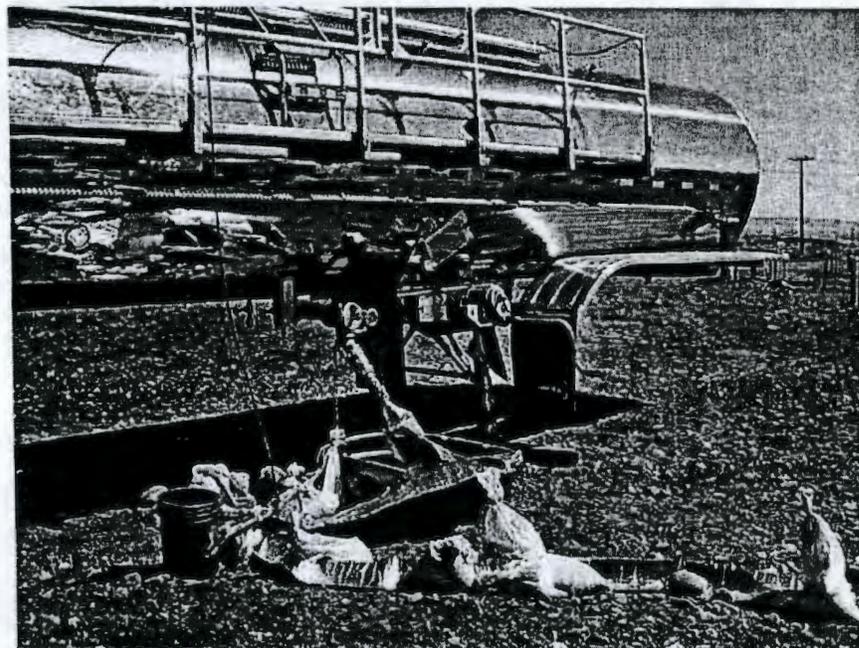
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### Groundwater/Vadose Zone Integration Project

- In June, a second meeting with the National Academy of Sciences was conducted at the Hanford Site to review the S&T component of the GW/VZ Integration Project. The GW/VZ Project also participated in the Oregon Hanford Waste Board meetings that were conducted in June, and assisted DOE, Headquarters (HQ) in the transmittal and distribution of the *Semi-Annual Groundwater/Vadose Zone Report* to members of the Northwest Congressional Delegation. In July, an open project meeting was held, and the Project also met with the Oregon Office of Energy and public interest groups in Portland, Oregon, regarding project status. In August, the Project submitted a quarterly public involvement document "look ahead, look back" in support of the Hanford Advisory Board Public Involvement Committee, and conducted several open project meetings.
- In June, final fluid injections were completed for the vadose zone transport experiment. In August, field activities were completed at the vadose zone transport field study site, and data interpretation was initiated. The main objectives of the vadose zone transport field study are to focus on the underground tank leak issues, improve vadose monitoring capabilities, identify key transport processes, and provide data for model verification.
- The numerical model was completed for the 100 H Area as part of the Groundwater/River Interface Study.
- A management review of the System Assessment Capability (SAC) Rev. 0, Assessment Description, Requirements, Software Design and Test Plan was performed in June. The review team included members of the Integration Project Expert Panel (IPEP) and Sandia National Laboratory.
- In August, the testing of the Coupled Fluid Energy and Solute Transport (CFEST) modification was completed, and is currently being evaluated for use in the SAC, Rev. 0.

### Groundwater Management (M-16-27, M-24-00L, M-24-00M)

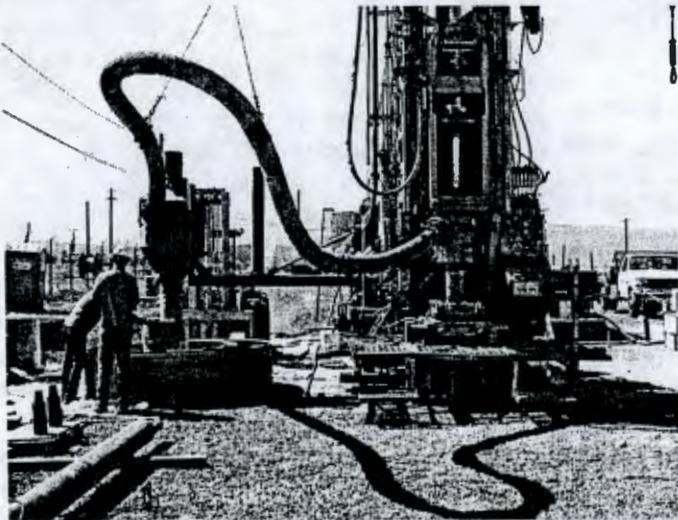
- FY00 In Situ Redox Manipulation (ISRM) well drilling was completed in the 100 D Area on April 24, with a total of 16 wells drilled and installed to a planned depth. The construction contract for the ISRM evaporation pond was awarded in June, and construction of the pond was completed in July. ISRM barrier placement activities commenced in August. Chemicals were injected into seven of the ten selected wells. Withdrawal of the chemical reactive byproducts was completed in four of these wells, and three wells are currently in the process of being withdrawn.



- TPA Change Request, M-16-00-02, was signed on June 30 establishing three interim milestones to track progress of the ISRM emplacement.

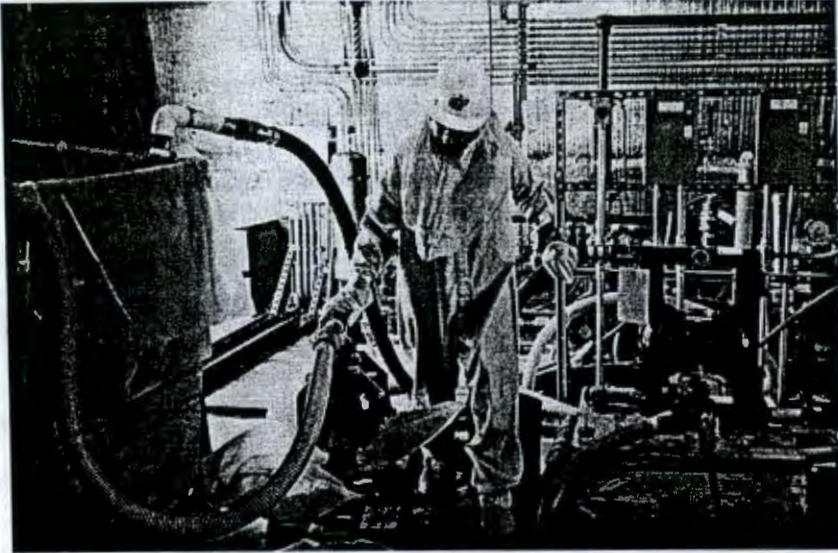
## GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

- TPA Change Request, M-24-00-01A, was signed on June 26 establishing five TPA interim milestones for calendar year 2000 (and initial 2001 milestones) in support of RCRA well installation (M-24-00L / M-24-00M). Three of the 10 planned calendar-year 2000 RCRA wells have been installed through August. The remaining wells are on schedule for completion by the end of December.
- Workshops were held with regulators and Site contractors regarding future well drilling needs for the RCRA groundwater monitoring at the Hanford Site.
- In July, the regulators approved the waste management plan and the sampling and analysis plan for the 618-11 Burial Ground tritium investigation. A waste pad was also established in the 300 Area for investigation-derived waste. In August, installation of soil gas points was started, and soil gas was sampled at 27 locations at the 618-11 Burial Ground.
- Routine well drilling, maintenance and groundwater monitoring continued. Maintenance was completed for 140 wells, two more than the 138 planned wells.
- All groundwater pump and treat systems operated above the planned 90% availability levels through August. No significant operation or maintenance issues occurred during the period. Since system inception, the five pump and treat systems have processed over 4.2 billion liters of groundwater, removing approximately 4,496 kilograms of carbon tetrachloride, 187 kilograms of chromium, and 0.868 curies of strontium. Approximately 962 million liters of groundwater have been processed in FY00, removing approximately 1,092 kilograms of carbon tetrachloride, 55 kilograms of chromium, and 0.162 curies of strontium.
  - **100-HR-3 Pump and Treat System.** Approximately 25.8 million liters of groundwater were processed in August removing approximately 2.4 kilograms of chromium. 267.3 million liters have been processed in FY00, with 24.5 kilograms of chromium removed. Approximately 919.0 million liters of groundwater have been processed from inception to date, with 88.7 kilograms of chromium removed.
  - **100-KR-4 Pump and Treat System.** Approximately 22.6 million liters of groundwater were processed in August removing approximately 2.5 kilograms of chromium. 254.5 million liters have been processed in FY00, with 30.1 kilograms of chromium removed. Approximately 779.9 million liters of groundwater have been processed from inception to date, with 98.5 kilograms of chromium removed.
  - **100-NR-2 Pump and Treat System.** Approximately 8.1 million liters of groundwater were processed in August, removing approximately 0.014 curies of strontium. 91.3 million liters have been processed in FY00, with 0.162 curies of strontium removed. Approximately 514.3 million liters have been processed from inception to date, with 0.868 curies of strontium removed.



## GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

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- **200-UP-1 Pump and Treat System.** Approximately 6.8 million liters of groundwater were processed in August with approximately 72.4 million liters processed in FY00. From inception to date, approximately 428.1 million liters have been transported to the Effluent Treatment Facility (ETF) for processing. 343.0 million liters were previously processed prior to utilizing the ETF.
- **200-ZP-1 Pump and Treat System.** Approximately 30.5 million liters of groundwater were processed during August, removing 104.0 kilograms of carbon tetrachloride. 276.4 million liters have been processed in FY00, with 1,091.8 kilograms of carbon tetrachloride removed. From inception to date, approximately 1.23 billion liters have been processed, with 4,496 kilograms of carbon tetrachloride removed.

- **200-ZP-2 Vapor Extraction System.** The 200-ZP-2 soil vapor extraction system was placed off-line for FY00, in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling has been implemented.

Dense Non-Aqueous Phase Liquid (DNAPL) investigative work has been initiated. Planning is underway to initiate extending three wells in November. The DQO summary report has been completed, and the Description of Work is currently undergoing internal review.

### **200 Area Assessment (M-13-23, M-13-24, M-15-38, M-15-39, M-15-40)**

- The Draft A *200-TW-1 Scavenged Waste Group Operable Unit and 200-TW-2 Tank Waste Group Operable Unit RI/FS Work Plan* was transmitted to the regulators on August 14. This document satisfies completion of *Tri-Party Agreement* Milestones M-13-23 and M-13-24 which were due on August 31.
- On August 23, three TPA change requests (M-15-00-01, -02, -03) were approved that established seven interim milestones for assessment activities for 200-CW-1 (M-15-38A), 200-CS-1 (M-15-39A,B,C) and 200-CW-5 (M-15-40A,B,C).

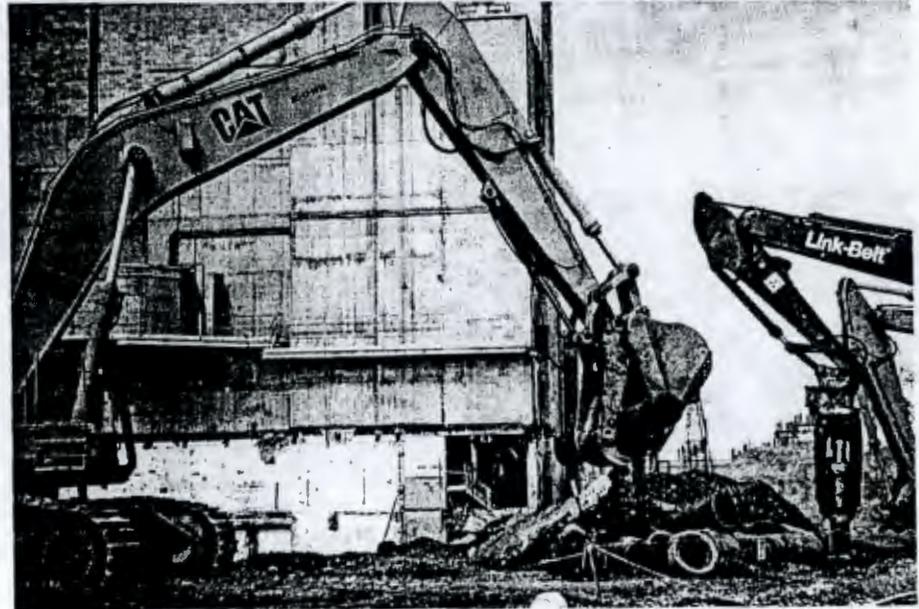
## DECOMMISSIONING PROJECTS

### F and DR Reactors ISS (M-93-08-T01)

- All planned FY00 demolition scope was completed at F Reactor in February. Backfill was completed in the below-grade gas recirculation tunnel and plenum demolition areas in June. Exterior building debris was removed from the east and west sides of the reactor in late July. In August, F Reactor demolition and loadout were completed, along with completion of concrete and soil sampling, in the valve pit and solid feeds areas.



- In August, the first sampling event was completed in support of the F Reactor Stage I FSB demolition. By using the GeoProbe, the lower boundary of the clean fill was located in the FSB.
- At the DR Reactor, demolition of the FSB (above/below-grade), transfer bay and monitor room was completed in late June. Backfill of the gas tunnel was completed on the north side of DR Reactor in July. Several activities were completed at the DR Reactor during August including: completing backfill of the north effluent pipe tunnel and south reactor tunnel; completing pipecutting of the south reactor effluent pipe, and removing the south reactor exterior debris and stairway; and completing side slope sampling in the FSB, and concrete and soil sampling in the valve pit area.



- The *F Reactor Hazards Assessment and Characterization Report* was transmitted to EPA on June 19. This satisfied completion of TPA Target Milestone M-93-08-T01, which was due on June 30.
- The combined (Stage I and II) F Reactor Fuel Storage Basin (FSB) *Sampling Analysis Plan (SAP)* was approved by EPA in July. EPA also approved the *Removal Action Work Plan, Rev. 3* for the FSB.

## DECOMMISSIONING PROJECTS

### D and H Reactors ISS

- Biological cleanup was completed for both D and H Reactors.
- Engineering Evaluation/Cost Analysis (EE/CA) documents for the D and H Reactors were transmitted to RL on August 16.
- A gamma camera and In Situ Object Characterization Survey (ISOCs) instrumentation were deployed at the D Reactor for radiological scoping surveys.

### 233-S Plutonium Concentration Facility Decommissioning

- Substantial progress continues to be made at the 233-S facility even with the confined workspace environment and contamination hazards that are encountered during each entry. There was an average of 230 entries per month into the 233-S facility since January. Since 233-S decommissioning commenced 35 months ago (1,066 days), work has progressed safely, with no lost workdays occurring.
- Removal of all 70 PMMA panels from the process hood was completed in July.
- Fixative was applied inside the process hood, in the L-18 cubicle, and the roof high bay areas to reduce contamination migration.
- Twelve liters of nitric acid was neutralized and stabilized in June.
- Localized ventilation was installed in the viewing room. Grating was required to be removed from the north ends of the viewing room second, third, and fourth floors prior to the installation.
- Piping, valves, and canisters were removed from the north, west, and east ends of the instrument loft.
- The plutonium sampler was removed from the viewing room third floor. Eleven pipes were cut and removed from the viewing room south end trench. The viewing room roof area small supply duct was also removed.
- High bay exhaust duct has been removed.



### Balance of Decommissioning Projects (M-93-05)

- The *B Reactor Museum Feasibility Assessment (Phase II) Project* document was transmitted to RL on June 27. *B Reactor Museum Phase II Project Supplemental Cost Estimate* document for B Reactor hazards mitigation (outside of the feasibility study scope) was also transmitted. RL transmitted the documents to the EPA on July 10. Submission of these documents was made to meet the requirements of *Tri-Party Agreement* Milestone M-93-05.
- The *108-F Biological Laboratory D&D Project Closeout Report* was transmitted to RL on August 31. By utilizing FY98 and FY99 cost savings, decommissioning of the 108-F building was accelerated from the outyears, with physical demolition completed in September 1999 (five months ahead of schedule). Submittal of the closeout report formally completes the performance measure for this facility.

## SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

### S&M Activities

- In June, the construction and startup was completed for the water treatment plant replacement system at the N Reactor site.
- Stabilization activities were completed for the REDOX Facility plutonium loadout hood, including material and equipment procurement. Sample boxes in the plutonium hood (202-S gallery) were sealed, and valves and piping were encapsulated.
- The KE/KW acid tank stabilization field work was completed, and the final report was issued in August.



- In August, radiological surveys and the first surveillance of the B Plant interior was completed since the facility was transitioned to ER more than 10 months ago. There was no evidence of any degradation after 10 months with no ventilation in the facility. No entry was allowed into the facility while the ventilation system was inoperable.
- All field work and final reports associated with the REDOX

miscellaneous contaminated area stabilization were completed in June.

- All planned 84 passive vents source elimination were sealed at the RARA sites, approximately three weeks ahead of schedule.
- The draft *Five-Year Long-Term Monitoring Closure Report of Vegetation Monitoring* for the Arid Lands Ecology (ALE) Reserve, North Slope, and Horn Rapids Landfill was completed in July.

### Canyon Disposition Initiative (CDI)

- As of August, all 38 process cells have been accessed at the U Plant (221-U Building) canyon facility. In early September, remote concrete core sampling began in one of the CDI cells. Several attempts were made to obtain 6-8" core samples using the Brokk™ concrete coring machine. However, only samples of 2" or less were achieved. Swedish technical consultants are on Site to troubleshoot and evaluate path forward.
- Characterization of the CDI drain header was successfully completed by utilizing a robot to perform the inspection. The robot traveled the equivalent of nearly three football fields to visually inspect the 24-inch diameter drain line for structural integrity, obtain radiation readings, and collect samples of contaminated materials within the line. The robot crawler is about 4 feet long, 9 inches wide, 9 inches tall, and weights about 75 pounds. The robotic crawler was custom designed and built by PNNL engineers.

### B Reactor

- Preparation began on the EE/CA for B Reactor hazards mitigation.
- Posting requirements were identified for B Reactor. A total of 22 signs were posted on the tour route.

## **PROGRAM MANAGEMENT & SUPPORT - ERC**

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### **COMPLIANCE, QUALITY, SAFETY & HEALTH**

#### **Compliance and Quality**

- In June, a RCRA inspection was conducted in the 100 Area, as required by the Hanford Site RCRA permit. No reportable items were noted. However, several housekeeping issues were identified. These housekeeping items were documented and are being tracked to ensure corrective actions are completed.
- A surveillance was performed at the 271-U and 1330-N 90-Day Hazardous Waste Storage Pads, and at two satellite accumulation areas at the REDOX facility. The surveillance inspections were performed to review waste management practices for compliance with regulatory and procedural requirements. The surveillance focused on container management practices, emergency action plans, spill kit inventory, inspection and waste container records. Overall, the surveillance resulted in 10 observations. A written response was prepared to address the issues that were identified.
- In August, Ecology conducted a compliance inspection of the Hexone Storage and Treatment Facility as a follow-up to a previous compliance inspection that was conducted in May. No issues were identified.

#### **Safety and Health**

- The Radiological Controls group supported a DOE complex-wide initiative that investigated potential failures of pressurized fittings in gloveboxes and other systems. This investigation found no affected systems inside ERC control.
- In July, the new *Radiological Control Manual* was issued. Over 100 procedures were updated or verified to comply with the revised 10 *Code of Federal Regulations* (CFR) 835 regulation (Occupational Radiation Protection).
- A revision to the 10 CFR 835 regulation will also require all personnel touring the B Reactor to complete General Employee

Radiological Training (GERT), effective August 1. This new requirement will impact the ER Project's ability to make the reactor more accessible to the public. A modified version of the GERT, specific to the B Reactor, was prepared to support the August 5 White Bluffs reunion tour.

- Emergency reposting of the 100 Area B/C controlled area and the 200 Area 216-S Ditch was accomplished within a week of the Hanford Site range fire. Over 250 ERC signs were damaged by the fire.

### **ENGINEERING AND TECHNOLOGY**

#### **Technology Applications.**

- Proposals for the ISRM and CDI projects have been selected in the upper tier of environmental restoration related pollution prevention proposals. There is a possibility of receiving up to \$500K for each project.
- A BHI Technology Applications employee, along with other members of the HQ Office of Science and Technology (OST) Core Planning Team, was presented with the "President's Award for DOE Environmental Initiative." The award recognizes the team for developing a program plan that guides the redesign of the DOE OST in order to make it more responsive to end-user needs.
- Final drafts were completed for the FY01 S&T Needs and Technology Insertion Points (TIPs). After review, these documents will be included in the FY01-03 DWP for submittal to RL and the regulators.

#### **Environmental Technologies.**

- Damage caused by the June Hanford Site range fire to the ALE Reserve was assessed. ERC revegetation and mitigation sites were visited to determine initial estimates of damage. The full extent of the fire damage will not be known until next spring's growing season.

## **PROGRAM MANAGEMENT & SUPPORT - ERC**

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### **PROGRAM AND PROJECT SUPPORT**

#### **External Affairs.**

- A recognition event was held to acknowledge B Reactor Museum Association (BRMA) members for their voluntary assistance in conducting reactor tours and their persistence in promoting the museum concept. Approximately 80 invited guests attended, including six media representatives. RL and BHI management pledged support to preserving the museum and developing the next steps in concert with the regulators and stakeholders.
- As requested by RL, a special meeting was held with the Hanford Advisory Board Environmental Restoration (HAB/ER) Committee on August 10. RL's vision, "Done in a Decade", was presented, and Committee members were requested to provide comments on the draft information. Supporting presentations were also made on the 100/600 Areas River Corridor Accelerated Restoration Proposal and the 300 Area Accelerated Closure Project Plan.

#### **Property Management.**

- The ERC continues to exceed FY00 small business socioeconomic contractual goals.

### **PLANNING AND CONTROLS**

#### **Project Controls**

- FY01-03 Detailed Work Plan (DWP) Management Reviews were held during August for each of the ER Projects. Regulators, stakeholders, HQ/RL management, and BHI personnel were in attendance. On August 29, a DWP Recap meeting was held to finalize any outstanding issues. The ERC FY01-03 DWP is expected to be signed on September 26.

# ISSUES

## CURRENT ER PROJECT ISSUES

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### REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

- **M-16-26B:** M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines at B/C, DR, and HR" due February 28, 2001, will be missed due to lack of funding in FY99 and FY00 for 100 B/C pipelines and arsenic issue at 100 H Area.

**Strategy/Status:** A Request for Proposal (RFP) for the 100 B/C pipeline remediation was distributed to potential bidders on August 23. Bids are due September 29. Based on bid proposals received and negotiations with the regulators, a TPA change package will be prepared.

- **M-16-26C:** M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit", due May 31, 2001, will be missed due to the unanticipated elevated arsenic levels encountered during confirmation sampling/verification activities (lead arsenate pesticides were used on pre-Hanford agricultural areas) and additional plumes.

**Strategy/Status:** After completing additional arsenic sampling throughout the 100 Areas, EPA and Ecology agreed to use the State of Washington background value of 20 mg/kg for arsenic. After verification sampling results have been received, a TPA change package will be prepared.

- **M-16-03E:** Regulators are reevaluating the uranium cleanup level for the 300 Area. The approved 300-FF-1 ROD requires residual soil to be below 15 mrem/year in an industrial land use setting. Currently, a leachability study is underway to assure protection of groundwater at 300-FF-2. If lower cleanup levels are determined to be appropriate for 300-FF-1, additional excavation may be necessary. This development could jeopardize the scheduled December 31, 2000, completion date for TPA Milestone M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground) to Include Excavation, Verification, and Backfilling."

**Strategy/Status:** In accordance with regulator recommendations, backfill/grade of 300-FF-1 will be deferred until 300-FF-2 negotiations are completed and the uranium cleanup standard is established. A TPA change request that proposes a revised completion date of September 30, 2001, was forwarded to the regulators on September 8.

- **Revise 300 Area CVP's Content and Format:** EPA has suggested that the content and format of four 300-FF-1 closeout verification packages (CVP) that are currently being produced, be changed to more closely resemble the 100 Area CVPs. The suggested changes require work beyond the current DWP scope. All work on CVPs is on hold awaiting EPA's recommendations. If RL concurs with the proposed changes, additional funding and schedule will be required to complete the work.

**Strategy/Status:** RL and EPA will determine course of action.

## CURRENT ER PROJECT ISSUES

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- **100 D Area Backfill:** Backfill concurrence for the remaining north segment of the 100-DR north pipeline continues to be delayed pending resolution of a chromium issue. Additional samples have been collected and independently analyzed by three labs with conflicting results. Ecology prefers that another qualified lab be utilized for further analysis.

**Strategy/Status:** A fourth qualified lab will be selected to perform further analysis. Based on results, a strategy will be developed to reach final resolution of this issue.

## GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

- **Monitoring Wells:** Tritium investigation is being conducted near the 618-11 Burial Ground.

**Strategy/Status:** A total of 48 soil gas points have been installed, labeled, located with Geographic Information System (GIS), and sampled for the tritium investigation. These points are located around the perimeter of the 618-11 burial ground and in two transects in Energy Northwest's parking lot. Of the planned transects points, only the end and mid points were installed. Preliminary data has been received back from the University of Rochester and is currently being interpreted. Eleven existing groundwater wells have been sampled. Vertical profiling of tritium concentrations in groundwater will be completed in September for two wells. Tritium investigation workscope is on the supplemental funding list for FY01. Any FY01 workscope will be funded through efficiencies.

- **200-ZP-2:** Need for enhanced characterization, enhance removal efficiency, and Dense Non-Aqueous Phase Liquid (DNAPL) investigation.

**Strategy/Status:** Project personnel met with EPA (Doug Sherwood), to discuss the need to restart ZP-2 pending completion of the cost estimate to perform the Partitioning Interwell Tracer Test (PITT) for DNAPL investigation. Decision was made to proceed with the PITT test in lieu of restarting ZP-2 this fiscal year. Drilling will proceed to deepen three wells in support of the PITT and to enhance the current vapor extraction system. A preliminary cost estimate and proposal submitted by a potential contractor is currently being reviewed by a subpanel of the GW/VZ Integration Project's Expert Panel. Evaluation is to be completed by October 20. A preliminary cost estimate is also being prepared by BHI for the cost to provide support to the potential contractor. The cost estimate is scheduled for completion by October 2.

- **200 Area RI/FS:** Approximately 800 soil contaminated sites in the 200 Area, which has been grouped into 23 process-based operable units, are to be characterized by 2008 and remediated by 2018. \$5-6M is required to meet TPA milestones. A budgetary position toward assessment and cleanup of the 200 Area liquid waste sites is needed for the long term. The regulator position is to submit TPA change packages for each operable unit work plan, to support enforceability in completing the RI through ROD, based on existing TPA milestones.

## CURRENT ER PROJECT ISSUES

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**Strategy/Status:** TPA change packages for the 200-CW-1, 200-CW-5, and 200-CS-1 Operable Units containing RI/FS interim milestones were approved on August 23. In addition, RL is currently working on ways to revise the existing long-term strategy for prioritizing the 200 Area assessment and remediation activities in conjunction with other site cleanup decisions. RL is also seeking to justify and identify additional funds for characterization. RL has identified \$2.5M (additional authorization from other RL funding sources), and ERC has identified \$2.0M (from FY00 efficiencies) for FY01 workscope. The ERC team, in conjunction with RL management, will meet with the regulators to discuss a proposed strategy for initiation of this work.

- **BioSite Notice of Correction:** On May 31, a Notice of Correction (NOC) letter was received by RL from Ecology. This NOC detailed the violations and corrections regarding the shipments of mixed solid waste that contacted groundwater that contains listed waste (FY01 and FY03), and the drums of M-24 drilling waste at the Biosite.

**Strategy/Status:** RL/BHI response was issued on June 26. Requirements include: 1) issue formal notification to Rabanco and City of Richland Landfills (completed), and 2) designate and ship BioSite waste (135 drums) by the end of September (forecasted for completion by September 28).

- **200-CW-1 IDW Waste Disposal at ERDF:** A request for a contained-in determination was approved for the 200-CW-1 investigation derived waste (IDW) by Ecology. Waste had to be removed from the site by July 14, as per Ecology's approved extension. Waste was shipped to ERDF, with approval from EPA. Disposal into ERDF was delayed pending either approval of the 200-CW-1 work plan by Ecology or signature of the change package.

**Strategy/Status:** A TPA change package was signed on August 23. There are 46 drums on a truck at ERDF. Approval was received from both regulatory agencies to dispose of 38 drums with a contained-in determination. BHI is awaiting approval by Ecology to dispose of the remaining 8 drums.

- **Purgewater Secondary Waste Management:** There is a discrepancy in the interpretation of the Purgewater Strategy applicability. Direction was given by RL to become compliant with all land disposal restriction (LDR) requirements.

**Strategy/Status:** An interim phase was initiated, and a screening was completed for the potential listed waste codes to be applied. Activities on Site will be conducted as planned, with a conservative application of the listed waste codes to the secondary wastes. A long-term resolution has also been accepted by RL, to conduct a Listed Waste Applicability Assessment to minimize the listed waste codes to be applied on this waste stream. Talks with the regulators have been informal; awaiting resolution of the Multi Media Investigation (MMI) case.

- **K Basins Well Maintenance Purgewater:** Purgewater from a well maintenance activity was discharged to the ground (130 gal and 10 gal). An Unusual Occurrence was filed by FH and the regulators were notified of a potential breach of the 216 Permit and the

## CURRENT ER PROJECT ISSUES

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Purgewater Strategy. Regulatory analysis performed by FH/BHI does not support breach of the 216 Permit requirements, since purgewater management is excluded from the 216 provisions. The Unusual Occurrence was withdrawn.

**Strategy/Status:** A letter from the RL Contracting Officer's Representative (COR) is being issued to all Site contractors providing proper instructions on how to modify purgewater requirements at specific sites. Negotiations with regulatory agencies will occur in the near future to update the Purgewater Strategy.

## DECOMMISSIONING PROJECTS

- **FY01 ISS Funding:** Partial funding in FY01, and no funding in FY02, will result in program suspension and loss of potential cost savings.

**Strategy/Status:** Need strategy to maintain critical resources and visible progress. In past two years, accelerated progress has been achieved through supplemental congressional funding.

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

- **Demolition Equipment:** Demolition equipment (trackhoe excavators and shuttle truck) breakdowns continue to cause demolition activity delays.

**Strategy/Status:** Mechanics continue to repair the equipment as quickly as possible. Impact sheets are being completed to track the delays. Issues/impacts were presented to the Results Management Team (RMT). Based on information provided, the Field Support organization was directed to prepare a procurement plan for purchase of a new excavator. Procurement is evaluating a path forward for purchase of the equipment. \$1.2M for purchase of an excavator and shear is included on the FY01 supplemental funding list.

## PROGRAM MANAGEMENT AND SUPPORT

- **Budgets Do Not Support Compliance Milestones:** FY01 and FY02 ER funding (target) levels are below minimum compliance requirements. Updated FY01 President's budget assumes ER funding target at \$141.9M. While this funding level maintains a number of significant activities supporting site cleanup goals, it is far short of maintaining compliance with TPA/other regulatory commitments in

## CURRENT ER PROJECT ISSUES

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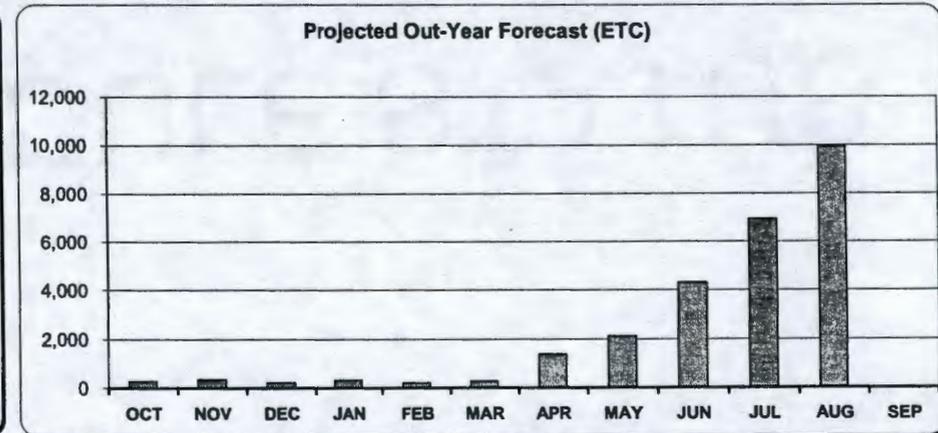
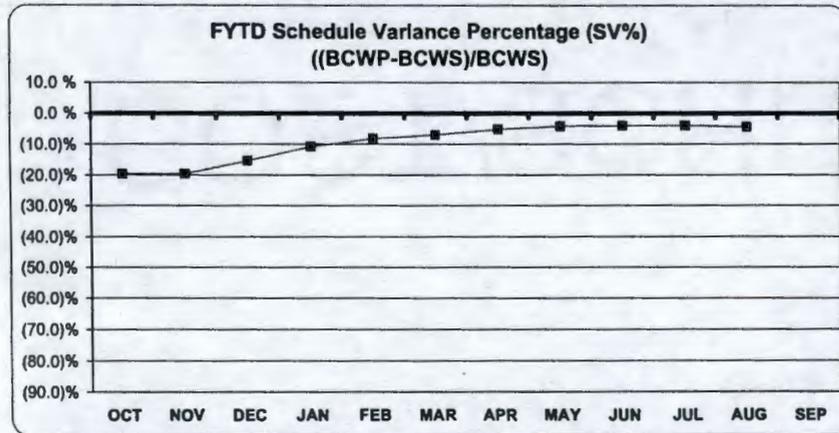
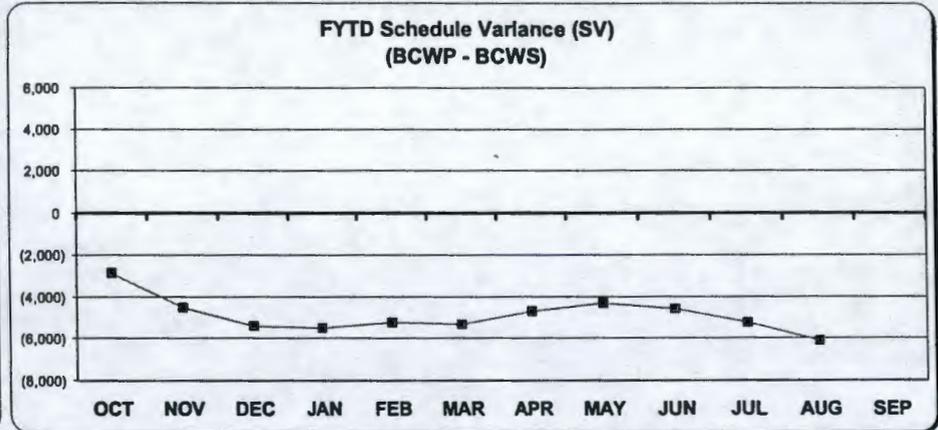
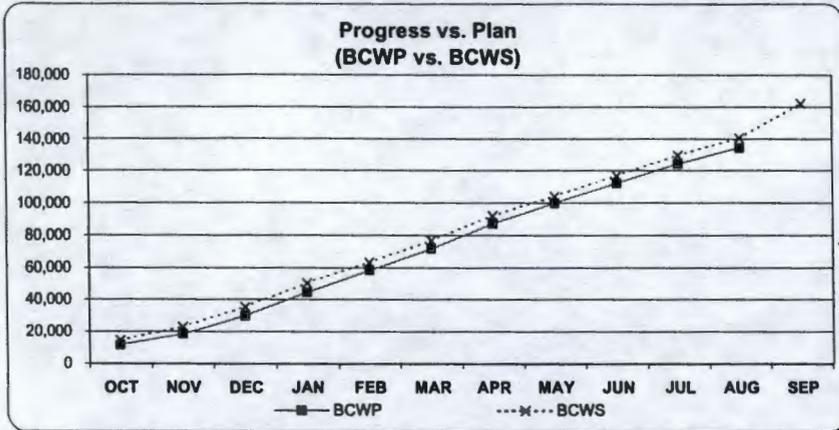
support of TPA Milestone M-16-00, due September 30, 2018. The recently submitted budget for FY02 targets ER at \$140.8M, which is again significantly short of supporting minimum compliance requirements for FY02 and beyond.

**Strategy/Status:** Maintain current TPA/regulatory commitments in FY00; develop impacts associated with directed funding targets for FY02 and beyond; and support DOE budget submittals and presentations, including discussions with regulators on projected future shortfalls and prioritization of allocated funding. The ER FY01-03 Detailed Work Plan (DWP), currently in development, reflects FY01 additional authorization funding requirements for 200 Area remedial actions, reactor ISS, and support of Grand Junction borehole logging program. These additional funds will be required to support compliance with 200 Area TPA milestones and continue ISS activities in FY01.

# **COST/SCHEDULE STATUS**

# A. PROJECT OVERVIEW

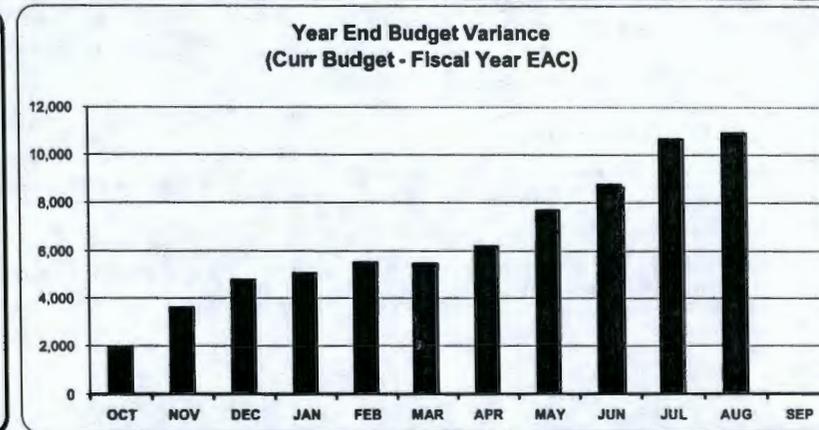
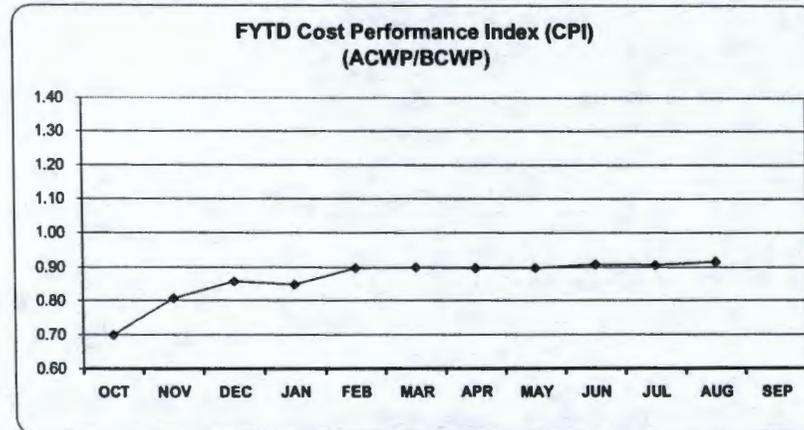
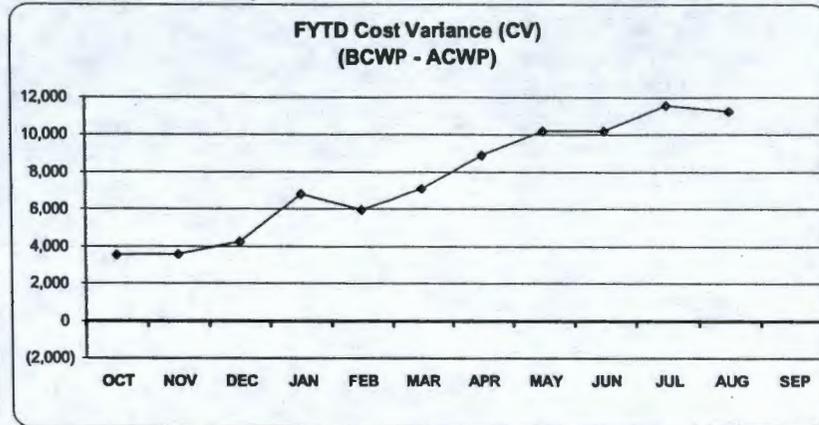
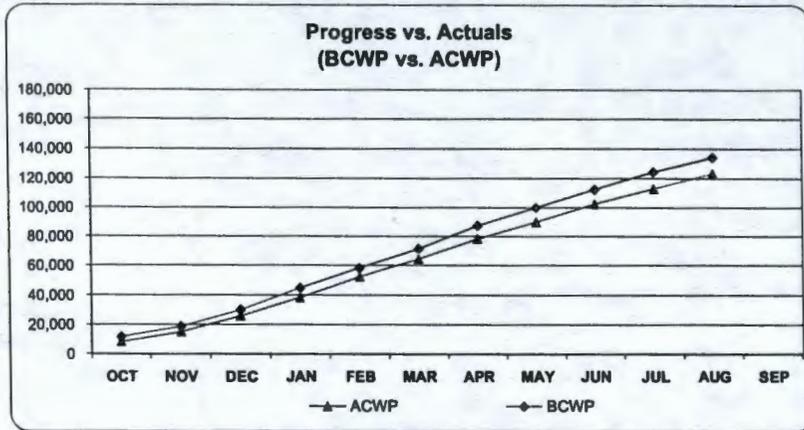
## SCHEDULE PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,445	15,190	12,158	12,771	12,681	10,838	21,445
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497	12,040	9,946	-
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	76,969	92,159	104,317	117,089	129,769	140,607	162,052
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516	124,556	134,502	-
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,690)	(4,298)	(4,572)	(5,213)	(6,105)	-
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%	-4.1%	-3.9%	-4.0%	-4.3%	-
Yr End Sch Carry Over	268	353	240	320	192	270	1,385	2,128	4,321	6,919	9,953	-

# A. PROJECT OVERVIEW

## COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	12,199	14,037	11,240	12,477	10,681	10,282	-	-
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797	12,550	12,497	12,040	9,946	-	-
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295	112,975	123,257	-	-
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469	100,019	112,516	124,556	134,502	-	-
CV	3,521	3,574	4,240	6,811	5,978	7,131	8,892	10,201	10,222	11,581	11,245	-	-
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90	0.90	0.91	0.91	0.92	-	-
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	89,818	102,295	112,975	123,257	141,170	151,124
Yr End Budget Var	1,967	3,638	4,793	5,074	5,521	5,482	6,206	7,693	8,781	10,679	10,929	-	9,953

# ENVIRONMENTAL RESTORATION PROJECT

## Schedule Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER01 – 100 Area Remedial Action	(\$669K)	100-DR north pipeline confirmation sampling behind schedule due to design document preparation delays; start of DR north pipeline backfill delayed pending resolution of differing chromium lab results; efficiencies allowed Superstretch remediation sites (JA Jones and 600-23) to be initiated in FY00, but major work activities are in FY01 (planned carryover).	None	Confirmation sampling will be carried over for completion in early FY01.
ER02 - 200 Area Remedial Action	(\$44K)	A decision as to whether or not 200-PW-2 should proceed as planned was not reached until May 26, causing a 2.5 month delay in starting the work plan.	None	A recovery schedule has been prepared to meet the TP milestone due December 31. A portion of FY00 workscope (~\$30K) will be carried over to FY01.
ER03 - 300 Area Remedial Action	(\$233K)	Procurement package for drum disposal is behind schedule due to additional evaluation time requested by prospective bidders. 300-FF-1 verification packages on hold pending regulator determination of format revision.	None	Project unable to recover procurement delay. RL working with regulators on package requirements; forecast carryover.
ER04 – Environmental Restoration Waste Disposal	\$60K	Receipt of waste tons is progressing ahead of schedule; installation of interim cover started later than planned.	None	None required. Cover installation will be completed prior to end of fiscal year.
ER05 – Surveillance/ Maintenance & Transition	(\$793K)	(1) B Reactor roof repair delayed by late delivery of scaffolding and crane. (2) Major repairs on REDOX compressor and exhaust fan delayed pending evaluation to perform the work. (3) Subcontract for Authorization Basis development was split into three contracts causing delays in award.	None	(1) Schedule recoverable on roof repair, and final completion will be reported in September pending completion of punchlist items. (2) Required repairs/ maintenance are being assessed. (3) None. Work is scheduled for completion in FY00.
ER06 – Decommissioning Projects	(\$207K)	Disposal of duct delayed pending approval of asbestos abatement plan for 233-S decommissioning.	None	Asbestos removal plan has been approved. Fixative has been applied to contaminated areas. Fall protection has been installed. Exhaust duct removal has been initiated with completion forecasted for September 30.

# ENVIRONMENTAL RESTORATION PROJECT

## Schedule Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER07 - Long-Term SM&T	\$6K	Total FY00 BCWS is \$46K	NA	NA
ER08 - Groundwater Management	(\$1,853K)	(1) Late start of ISRM injections/withdrawals due to delay in evaporation pond completion. (2) Well decommissioning workscope budgeted for FY00/FY01 Superstretch. (3) Late start on tritium sample collection due to waste issues. (4) LLBG monitoring delayed pending resolution of burial ground boundaries and statistical approaches with regulators. (5) Groundwater monitoring activities consisting of sample collection, analysis, interpretation and reporting, and hydrologic assessment are behind schedule due to resource limitations.	None	(1) None. Chemical injections/withdrawals have begun, and will be completed as scheduled by end of September. (2) None required. Well decommissioning is underway. Carryover is being documented. (3) Sample collection initiated in August. Carryover is being documented. (4) RL and Ecology are discussing boundary issues and agreement is expected this fall; carryover projected. (5) Sampling teams working overtime when possible. Workscope will be carried over to FY01.
ER10 - ERC Program Management and Support	(\$1,430K)	Late billing on RL site-wide assessments.	None	RL is discussing billing/timing with other site contractors/government agencies.
VZ01- Site-Wide Groundwater/Vadose Zone Integration Project	(\$942K)	(1) Field investigation at representative sites behind schedule due to delayed distribution of samples to the lab and receipt of sample analysis. (2) Technical resource availability has delayed Characterization of Systems initiation of the deployment activity.	None	(1) Schedule is not recoverable. RPP Field Investigation Report milestone extended; project in sync with RPP schedule; carryover projected. (2) Subcontract staff has been added to supplement existing staff, but technical resources are still not available due to other priority work; projected carryover.
<b>Total</b>	<b>(\$6,105K)</b>			

# ENVIRONMENTAL RESTORATION PROJECT

## Cost Variance Report

Project	Variance	Reason	Impact	Corrective Actions
ER01 – 100 Area Remedial Action	\$4,166K	More efficient asbestos abatement methods utilized (asbestos and piping removed/disposed concurrently) in 100 D and H Areas; savings in sampling and analyses by using local laboratory and on-site resources; F Area savings in site prep and reallocating resources between F and H Areas; labor savings on B/C backfill activities; lower costs for 116-N-1 design.	Cost underrun	Savings are being used to perform other remediation work.
ER02 – 200 Area Remedial Action	\$1,133K	Efficiencies learned in prior work were applied to Gable Mountain and B Pond test pit trenching resulting in savings. Borehole drilling was combined with RCRA drilling resulting in cost savings.	Cost underrun	Savings are being used to perform other remediation work.
ER03 - 300 Area Remedial Action	\$1,314K	Savings in Landfill 1A/1B remediation such as less Level B protection required than anticipated; FY99 accrual reversal in South Process Pond remediation.	Cost underrun	Savings are being used to perform other remediation work.
ER04 - Environmental Restoration Waste Disposal	\$2,157K	ERDF cover design and construction closeout completed with fewer resources than planned; transportation cost efficiencies from mild winter; and FY99 over accrual.	Cost underrun	Savings are being used to perform other remediation work.
ER05 - Surveillance/ Maintenance & Transition	\$374K	(1) Herbicide application and KE/KW acid tank stabilization less than planned. (2) Underruns on B Plant S&M due to delays in completing the filter changeout and ductwork repair on stack. (3) KE/KW legacy waste removal cost overrun; estimate did not account for difficulties encountered.	Cost underrun	(1) Underruns are being utilized for other ER work. (2) Costs will be increasing as B Plant stack was turned over to ERC in August. (3) Overrun reflected in EAC.
ER06 - Decommissioning Projects	\$291K	(1) F and DR ISS sample analysis costs are significantly lower than expected due to utilizing larger data groups (economies of scale). (2) 233-S additional cost to correct airflow and installing electrical upgrades in viewing room.	Cost underrun	(1) Savings are being used to perform other remediation work. (2) Cost overruns are being trended. Engineering controls have been implemented to resume characterization activities.
ER07 - Long-Term SM&T	\$7K	Total FY00 BCWS is \$46K	NA	NA

# ENVIRONMENTAL RESTORATION PROJECT

## Cost Variance Report

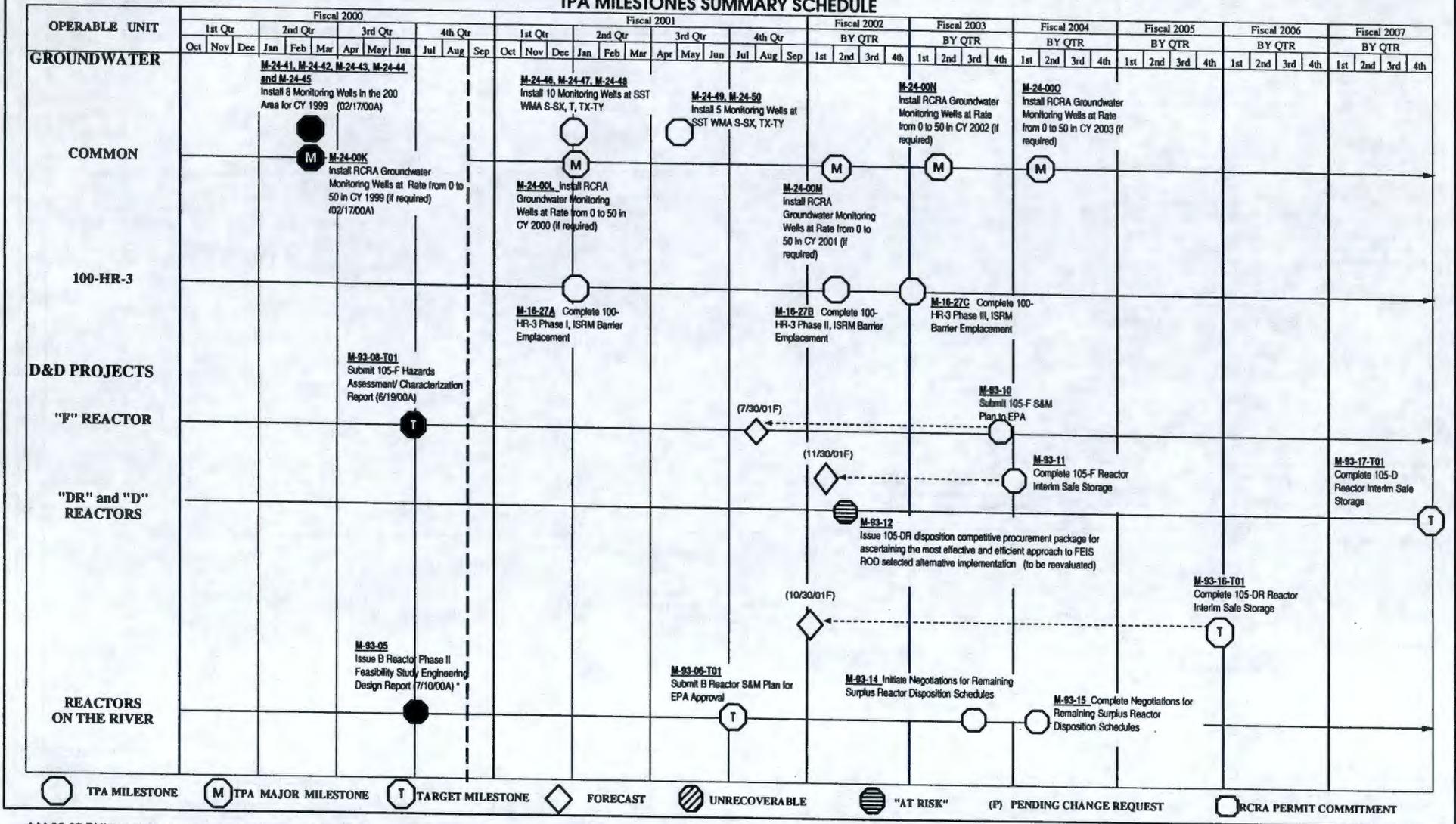
Project	Variance	Reason	Impact	Corrective Actions
ER08 - Groundwater Management	\$597K	Routine well maintenance and sample collection were less than planned due to unresolved waste issues.	Cost underrun	Savings are being used to perform other remediation work.
ER10 - ERC Program Management and Support	\$722K	Fewer special requests and audits have resulted in savings; baseline and strategic planning staff savings; and credit received as result of FY96 final rebill cost.	Cost underrun	A BCP will be prepared in September. Savings are being used to perform other remediation work.
VZ01 – Site-Wide Groundwater /Vadose Zone Integration Project	\$484K	Science & Technology and Characterization of Systems used fewer resources than planned; Expert Panel meeting completed for less than planned.	Cost underrun	Savings are being used to perform other remediation work.
<b>Total</b>	<b>\$11,245K</b>			





# ENVIRONMENTAL RESTORATION PROJECT

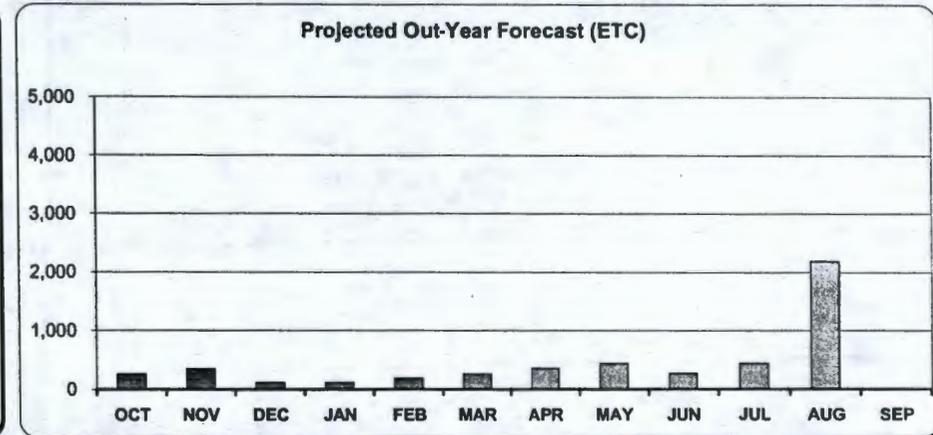
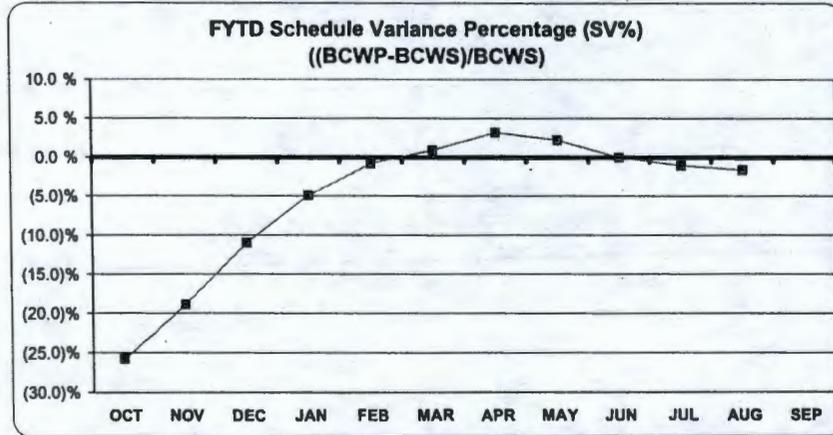
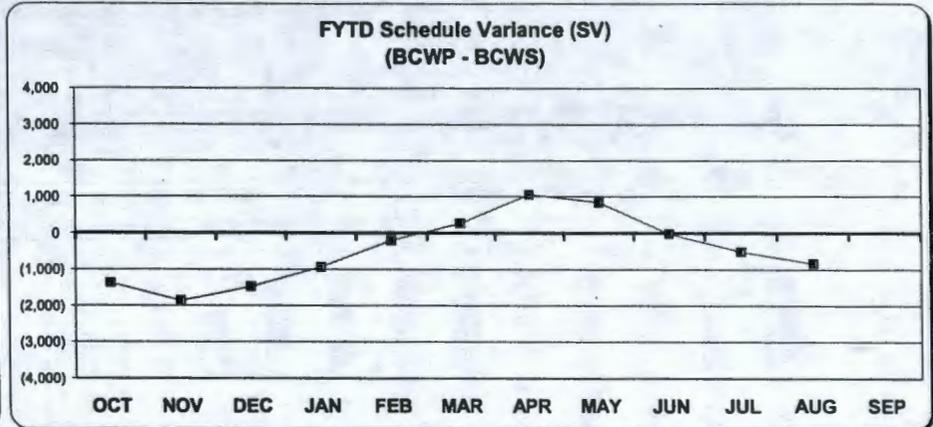
## Richland Environmental Restoration Project TPA MILESTONES SUMMARY SCHEDULE



\* M-93-05 BHI transmitted documents to RL on June 27; RL transmitted documents to EPA on July 10.

# B. REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

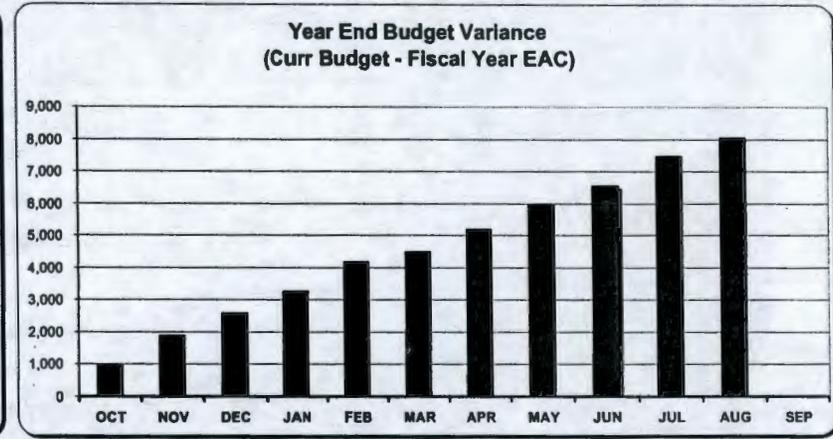
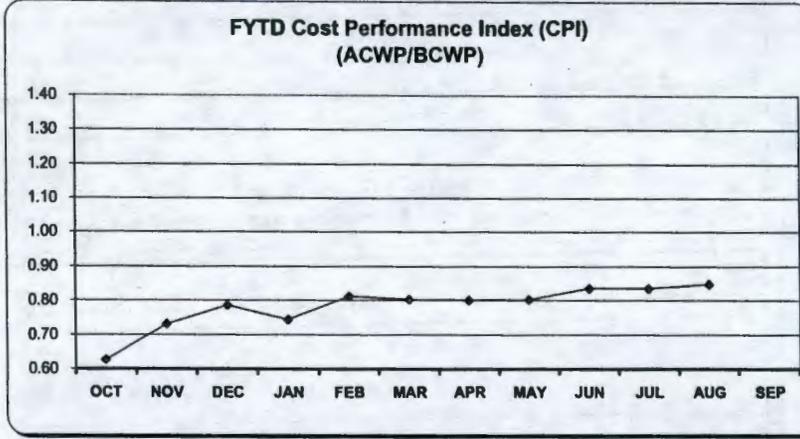
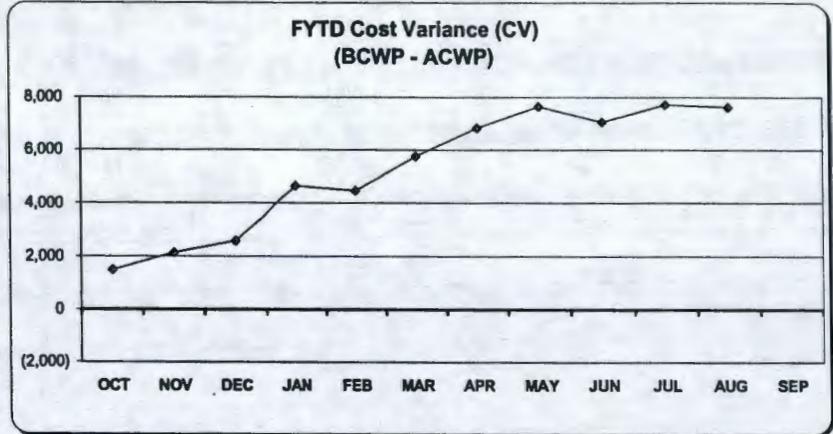
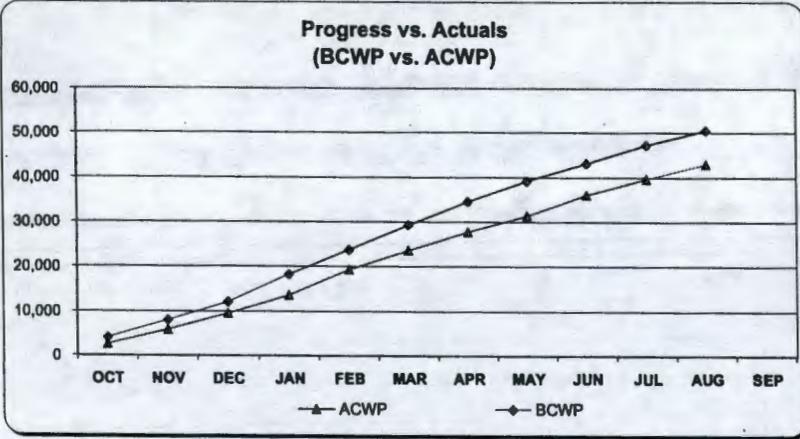
## SCHEDULE PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,555	3,121	3,126	3,902	3,552	3,916	4,299	3,622	3,539	4,157	4,285	5,594
DWP (Accum)	3,555	6,676	9,802	13,703	17,256	21,171	25,470	29,092	32,631	36,788	41,073	46,667
CURRENT PERIOD												
BCWS	5,355	4,498	3,726	5,547	4,921	5,031	4,489	4,686	4,882	4,731	3,634	6,224
BCWP	3,974	4,012	4,109	6,093	5,653	5,500	5,285	4,467	4,020	4,229	3,316	-
FISCAL YEAR TO DATE												
BCWS	5,355	9,853	13,580	19,126	24,047	29,078	33,567	38,253	43,135	47,866	51,500	57,724
BCWP	3,974	7,986	12,095	18,188	23,842	29,342	34,626	39,094	43,114	47,343	50,659	-
SV	(1,381)	(1,868)	(1,485)	(938)	(206)	263	1,059	841	(21)	(523)	(841)	-
SV%	-25.8%	-19.0%	-10.9%	-4.9%	-0.9%	0.9%	3.2%	2.2%	0.0%	-1.1%	-1.6%	-
Yr End Sch Carry Over	268	353	119	120	192	269	360	448	272	444	2,187	-

# B. REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

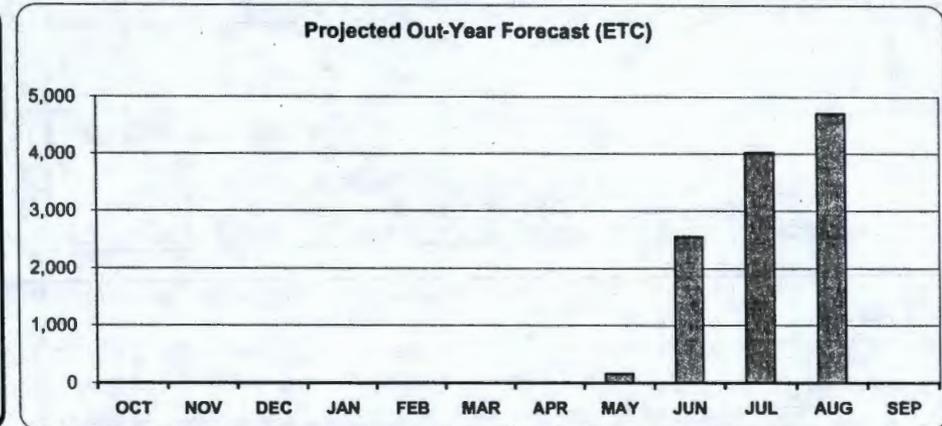
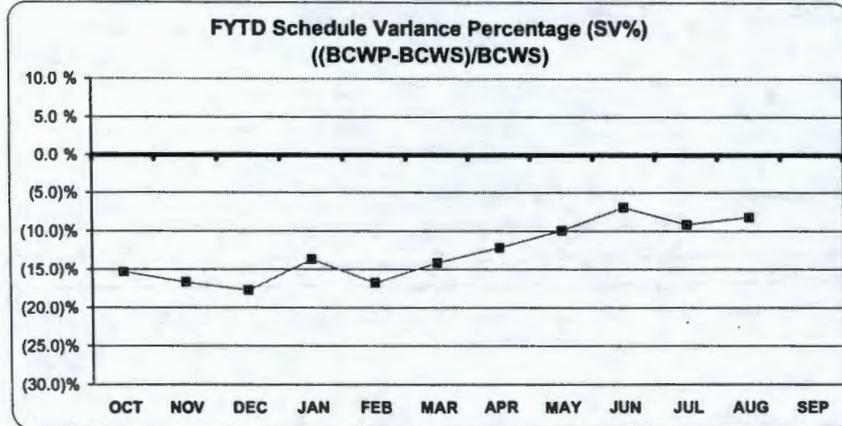
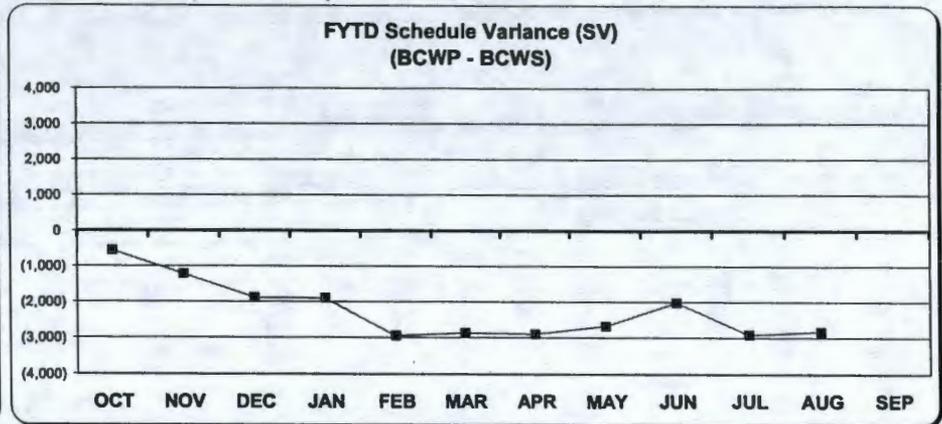
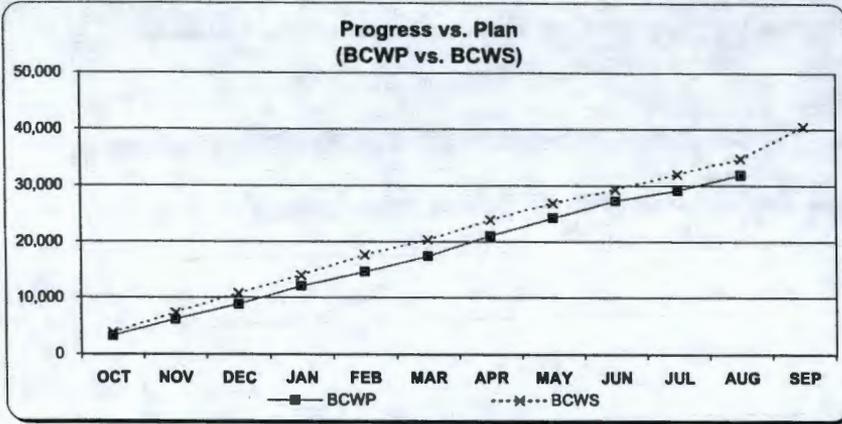
## COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	2,489	3,352	3,670	4,022	5,850	4,189	4,220	3,643	4,615	3,560	3,410	-	-
BCWP	3,974	4,012	4,109	6,093	5,653	5,500	5,285	4,467	4,020	4,229	3,316	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	2,489	5,841	9,511	13,533	19,383	23,573	27,793	31,436	36,051	39,611	43,021	-	-
BCWP	3,974	7,986	12,095	18,188	23,842	29,342	34,626	39,094	43,114	47,343	50,659	-	-
CV	1,485	2,145	2,584	4,655	4,458	5,769	6,834	7,658	7,063	7,732	7,637	-	-
CPI	0.63	0.73	0.79	0.74	0.81	0.80	0.80	0.80	0.84	0.84	0.85	-	-
EAC (Cumulative)	2,489	5,841	9,511	13,533	19,383	23,573	27,793	31,436	36,051	39,611	43,021	47,471	49,659
Yr End Budget Var	974	1,886	2,596	3,278	4,186	4,494	5,195	5,956	6,538	7,473	8,065	-	2,187

# C. GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

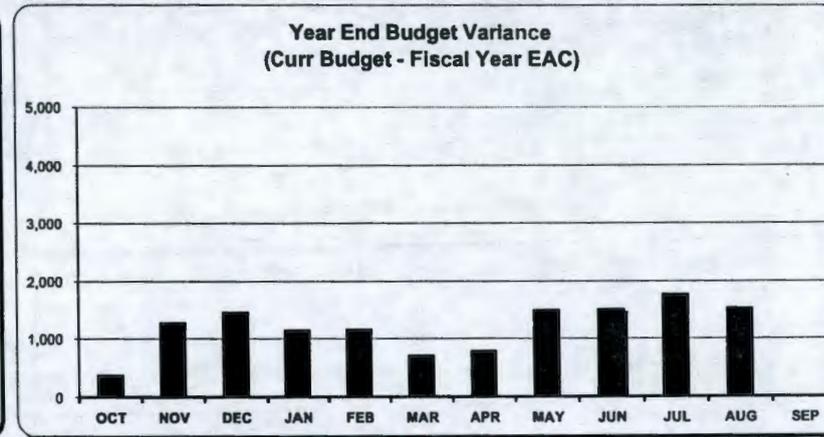
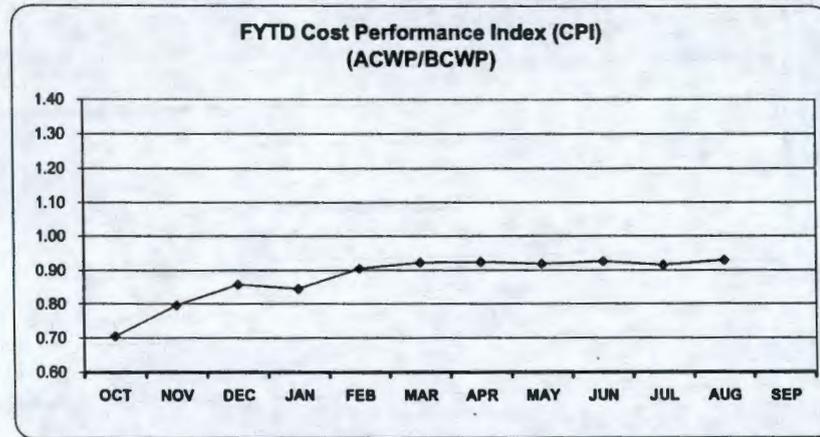
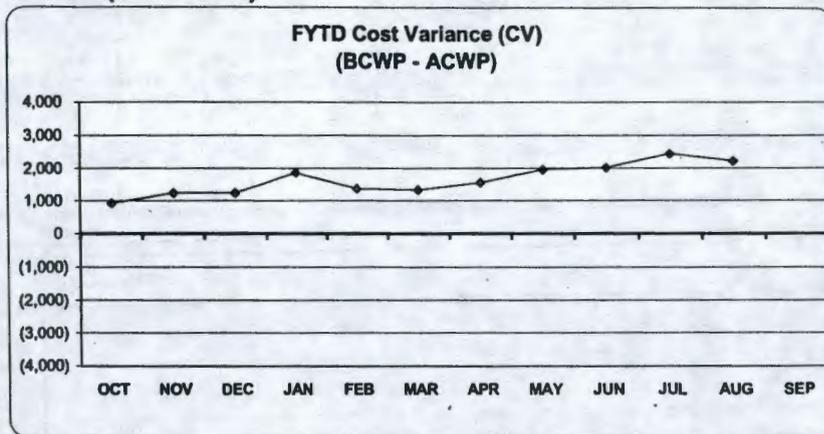
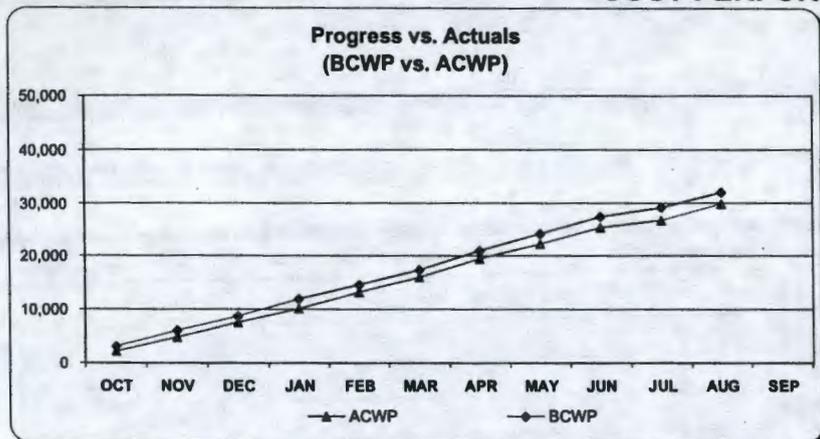
## SCHEDULE PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,177	3,115	2,799	3,704	2,617	2,701	2,962	2,592	2,547	3,276	2,470	2,292
DWP (Accum)	3,177	6,292	9,091	12,795	15,412	18,114	21,076	23,668	26,215	29,491	31,961	34,253
<b>CURRENT PERIOD</b>												
BCWS	3,742	3,588	3,358	3,225	3,646	2,703	3,625	2,995	2,540	2,643	2,769	5,769
BCWP	3,168	2,940	2,688	3,217	2,600	2,780	3,593	3,220	3,187	1,754	2,848	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	3,742	7,330	10,688	13,912	17,559	20,262	23,887	26,882	29,422	32,065	34,834	40,604
BCWP	3,168	6,108	8,796	12,013	14,613	17,393	20,986	24,206	27,393	29,147	31,996	-
SV	(574)	(1,222)	(1,892)	(1,899)	(2,946)	(2,869)	(2,901)	(2,676)	(2,029)	(2,918)	(2,839)	-
SV%	-15.4%	-16.7%	-17.7%	-13.6%	-16.8%	-14.2%	-12.1%	-10.0%	-6.9%	-9.1%	-8.1%	-
Yr End Sch Carry Over	-	-	-	-	-	-	-	167	2,557	4,028	4,716	-

# C. GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

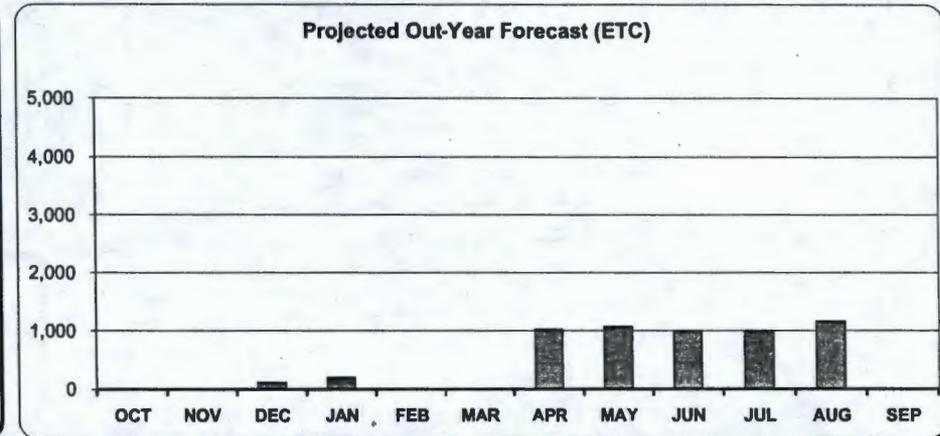
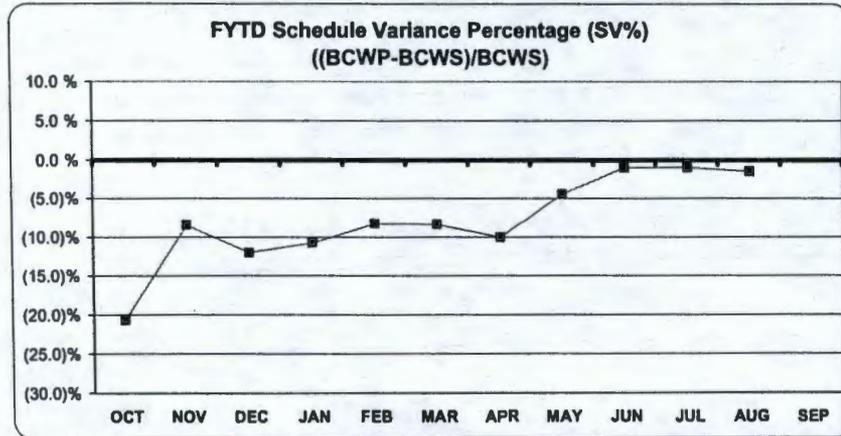
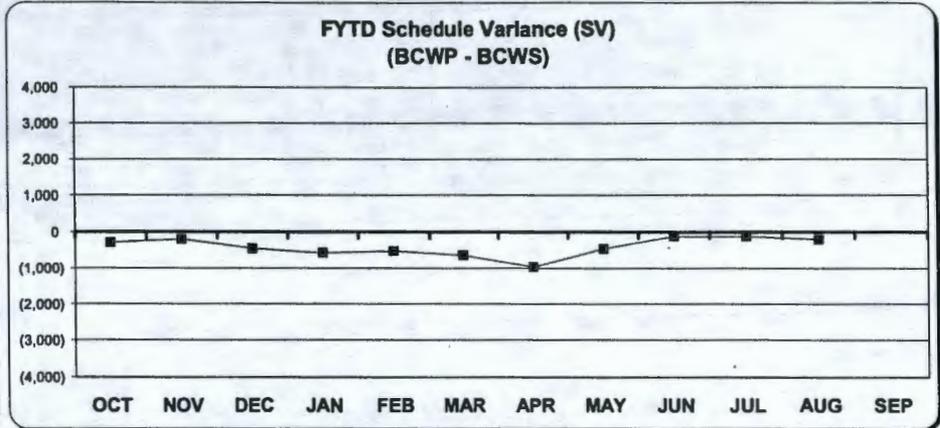
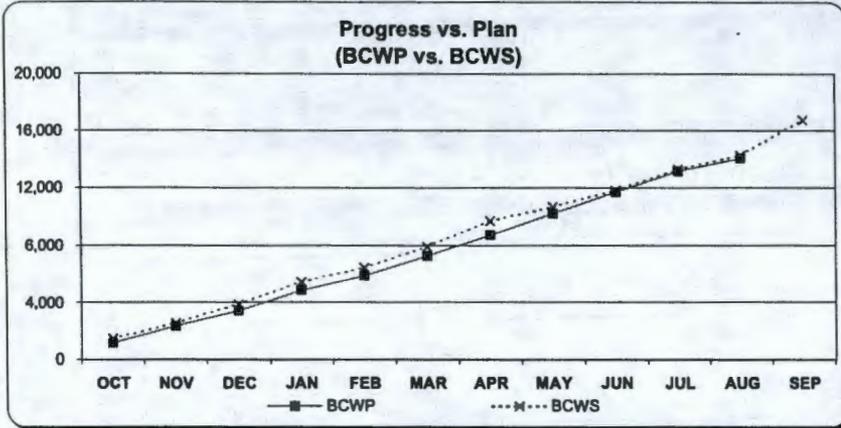
## COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	2,233	2,631	2,682	2,611	3,081	2,807	3,385	2,818	3,144	1,314	3,074	-	-
BCWP	3,168	2,940	2,688	3,217	2,600	2,780	3,593	3,220	3,187	1,754	2,848	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	2,233	4,864	7,546	10,158	13,239	16,046	19,431	22,249	25,393	26,708	29,782	-	-
BCWP	3,168	6,108	8,796	12,013	14,613	17,393	20,986	24,206	27,393	29,147	31,996	-	-
CV	935	1,244	1,250	1,856	1,374	1,348	1,555	1,957	2,000	2,440	2,214	-	-
CPI	0.70	0.80	0.86	0.85	0.91	0.92	0.93	0.92	0.93	0.92	0.93	-	-
EAC (Cumulative)	2,233	4,864	7,546	10,158	13,239	16,046	19,431	22,249	25,393	26,708	29,782	34,357	39,073
Yr End Budget Var	379	1,280	1,458	1,151	1,166	717	789	1,498	1,510	1,775	1,531	-	4,716

# D. DECOMMISSIONING PROJECTS

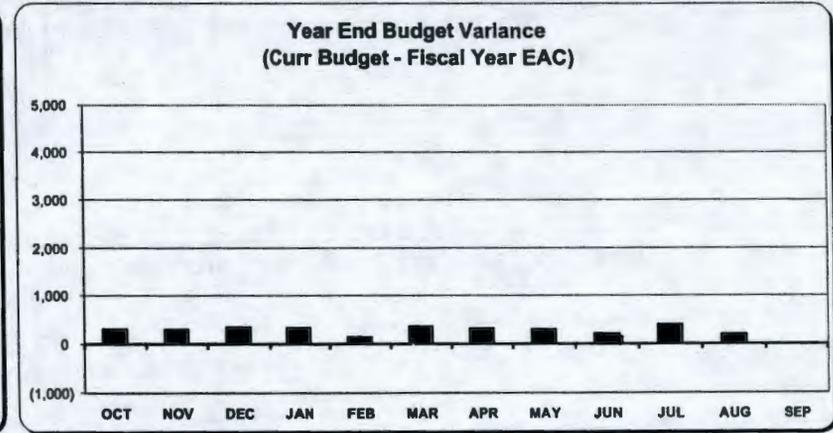
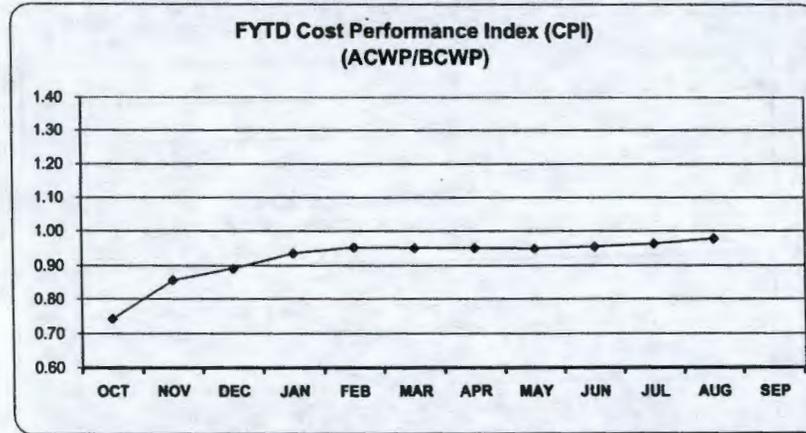
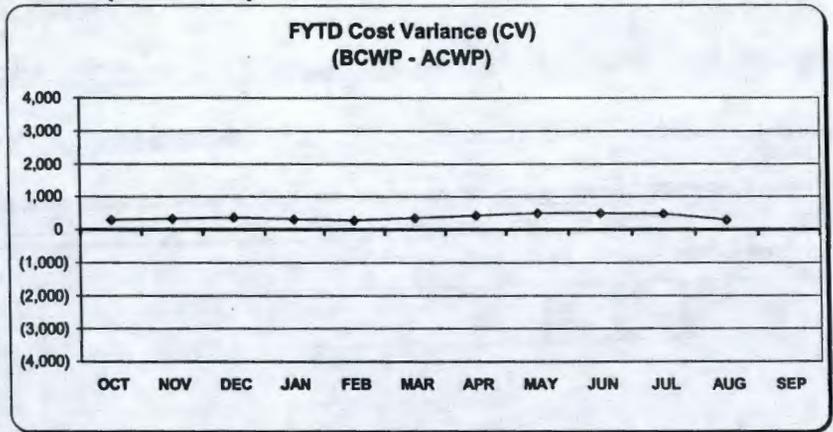
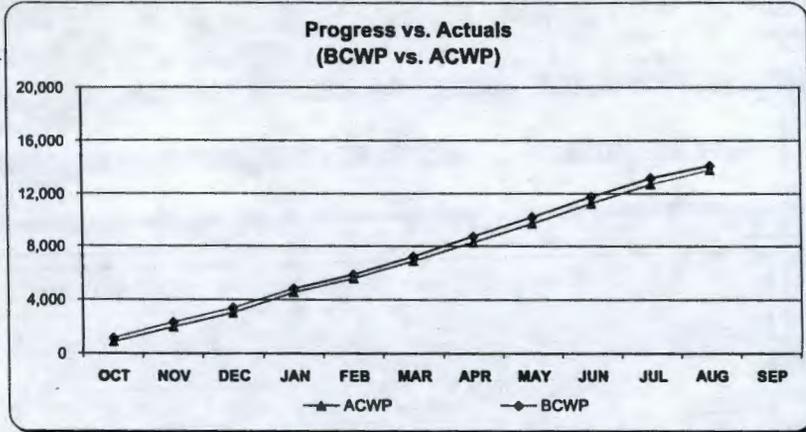
## SCHEDULE PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,279	1,089	1,079	791	572	516	587	509	424	562	443	595
DWP (Accum)	1,279	2,368	3,446	4,237	4,809	5,325	5,913	6,421	6,846	7,408	7,850	8,445
CURRENT PERIOD												
BCWS	1,467	1,086	1,300	1,588	982	1,489	1,796	981	1,167	1,451	992	2,474
BCWP	1,164	1,175	1,051	1,466	1,037	1,358	1,481	1,483	1,518	1,441	914	-
FISCAL YEAR TO DATE												
BCWS	1,467	2,553	3,852	5,440	6,422	7,911	9,706	10,687	11,854	13,305	14,297	16,771
BCWP	1,164	2,339	3,390	4,856	5,894	7,252	8,733	10,216	11,734	13,176	14,090	-
SV	(304)	(214)	(462)	(584)	(528)	(659)	(974)	(471)	(119)	(129)	(207)	-
SV%	-20.7%	-8.4%	-12.0%	-10.7%	-8.2%	-8.3%	-10.0%	-4.4%	-1.0%	-1.0%	-1.5%	-
Yr End Sch Carry Over	-	-	121	200	-	-	1,025	1,083	1,007	1,002	1,162	-

# D. DECOMMISSIONING PROJECTS

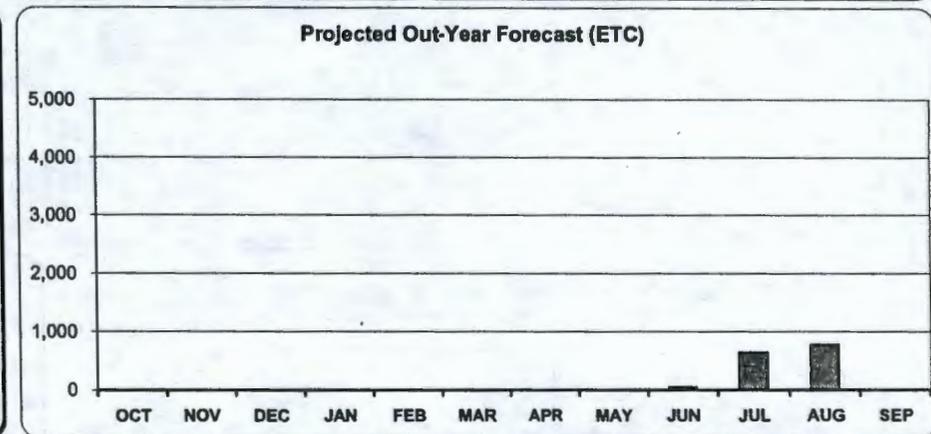
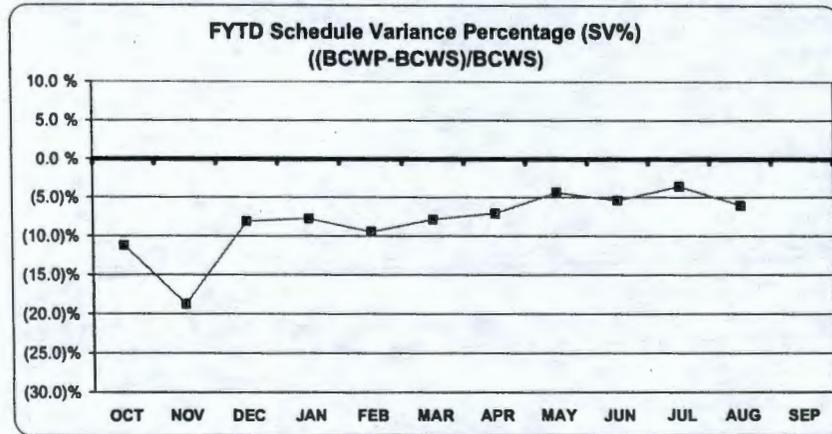
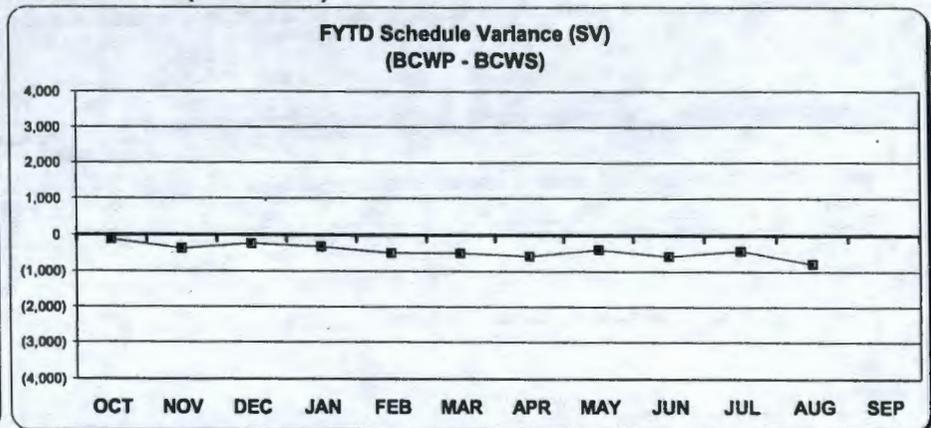
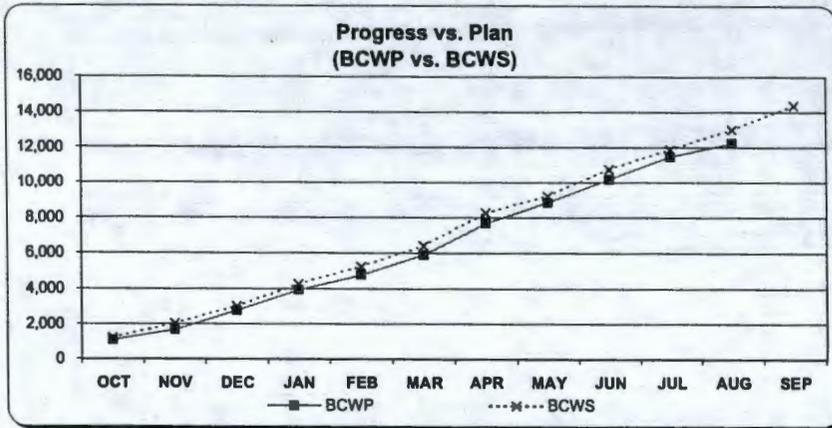
## COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	864	1,138	1,017	1,523	1,081	1,280	1,404	1,405	1,511	1,477	1,099	-	-
BCWP	1,164	1,175	1,051	1,466	1,037	1,358	1,481	1,483	1,518	1,441	914	-	-
FISCAL YEAR TO DATE													
ACWP	864	2,002	3,019	4,542	5,623	6,903	8,307	9,712	11,223	12,700	13,799	-	-
BCWP	1,164	2,339	3,390	4,856	5,894	7,252	8,733	10,216	11,734	13,176	14,090	-	-
CV	300	337	371	315	271	349	426	503	511	476	291	-	-
CPI	0.74	0.86	0.89	0.94	0.95	0.95	0.95	0.95	0.96	0.96	0.98	-	-
EAC (Cumulative)	864	2,002	3,019	4,542	5,623	6,903	8,307	9,712	11,223	12,700	13,799	15,398	16,560
Yr End Budget Var	320	312	352	345	145	367	329	311	212	409	211	-	1,162

# E. SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

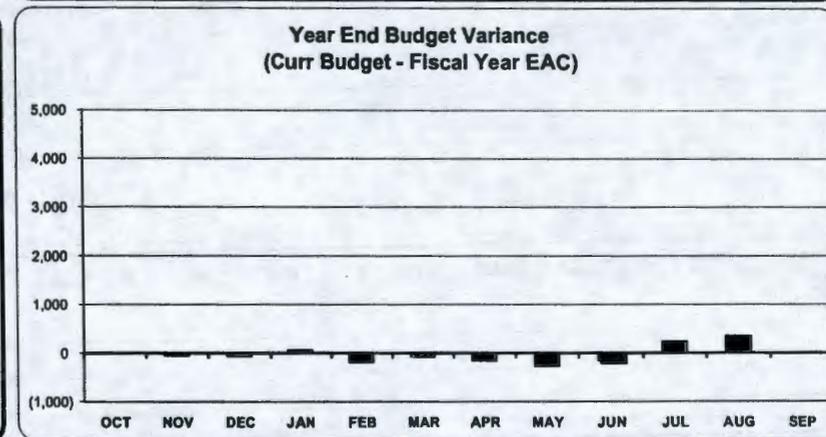
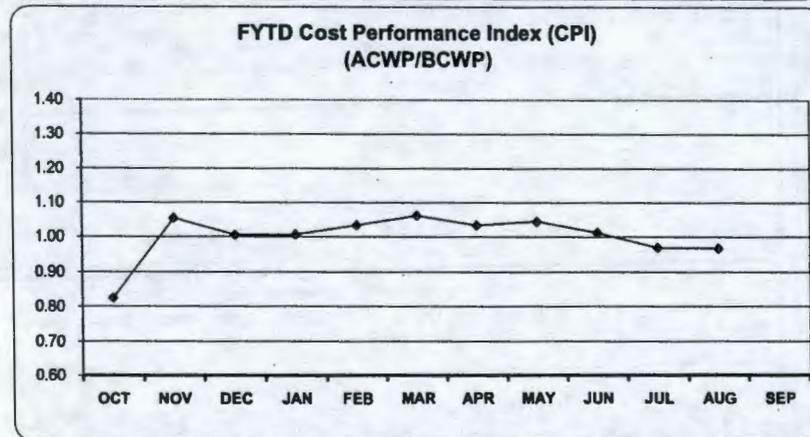
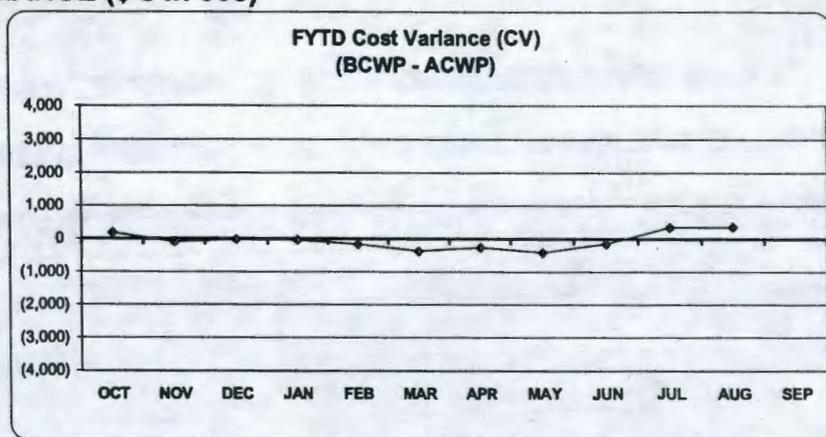
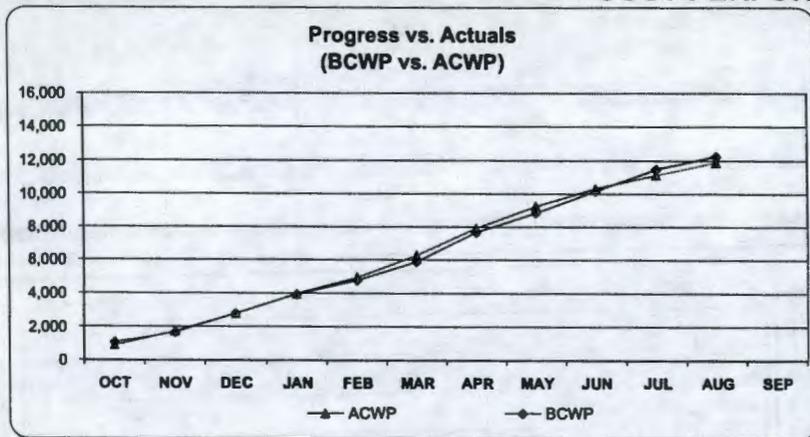
## SCHEDULE PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	873	852	879	1,209	927	1,040	1,082	1,182	1,115	1,160	943	1,075
DWP (Accum)	873	1,724	2,604	3,812	4,739	5,779	6,862	8,044	9,159	10,319	11,263	12,338
CURRENT PERIOD												
BCWS	1,198	824	972	1,261	1,006	1,154	1,845	992	1,504	1,137	1,129	1,373
BCWP	1,063	580	1,108	1,174	837	1,148	1,767	1,171	1,328	1,290	767	-
FISCAL YEAR TO DATE												
BCWS	1,198	2,022	2,993	4,255	5,261	6,414	8,259	9,252	10,755	11,892	13,021	14,394
BCWP	1,063	1,643	2,751	3,925	4,762	5,910	7,678	8,849	10,176	11,467	12,234	-
SV	(134)	(379)	(242)	(330)	(499)	(504)	(582)	(403)	(579)	(425)	(787)	-
SV%	-11.2%	-18.7%	-8.1%	-7.8%	-9.5%	-7.9%	-7.0%	-4.4%	-5.4%	-3.6%	-6.0%	-
Yr End Sch Carry Over	-	-	-	-	-	1	0	0	56	658	790	-

# E. SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

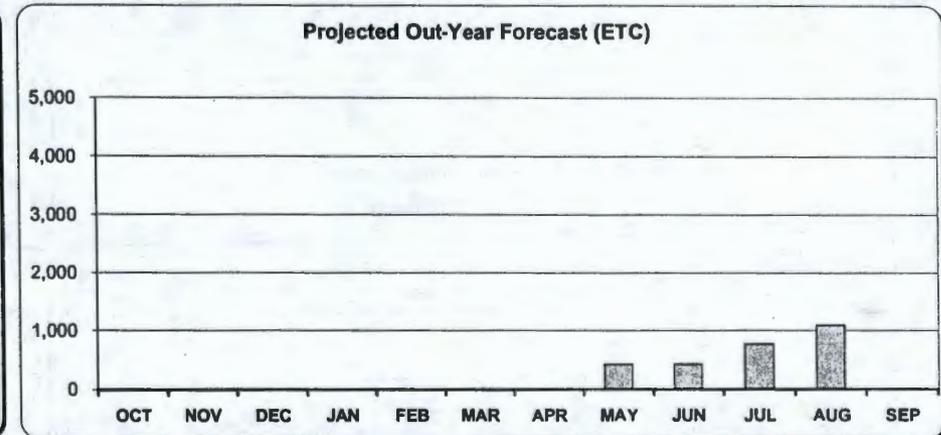
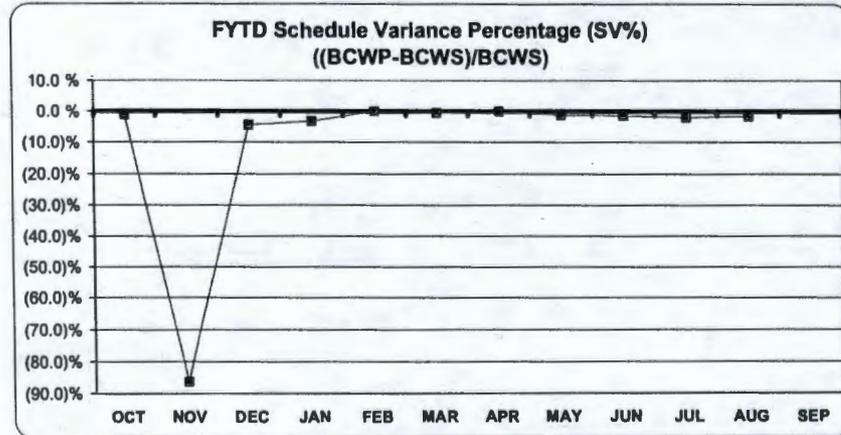
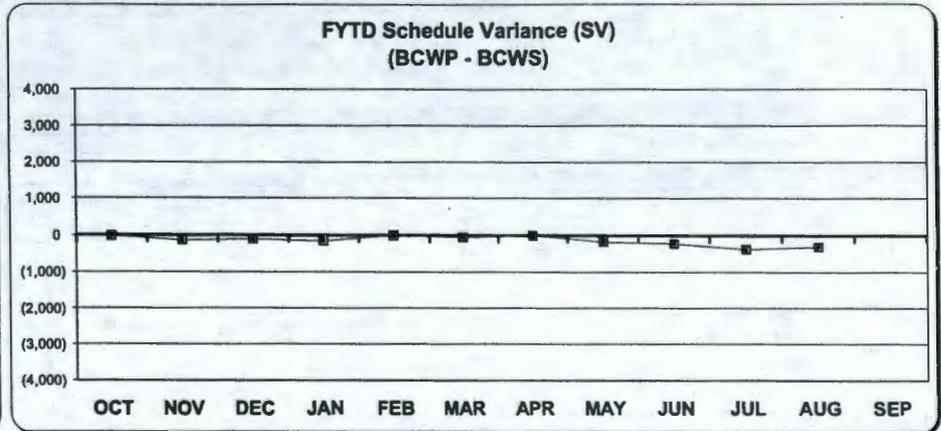
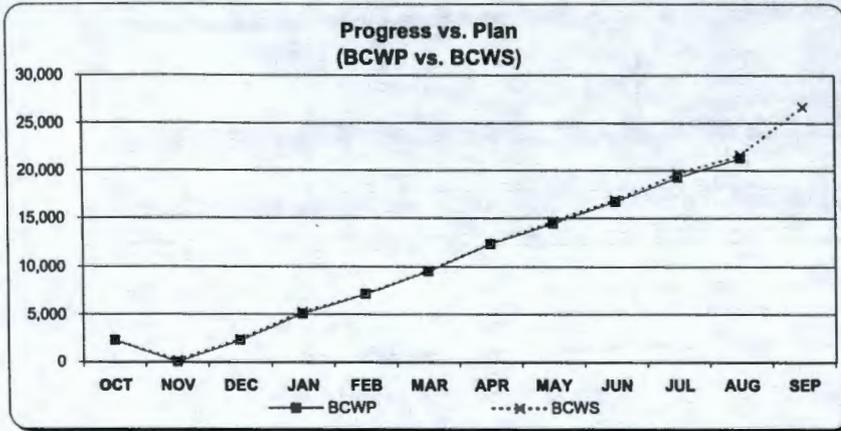
## COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	877	856	1,036	1,187	975	1,346	1,665	1,317	1,061	795	737	-	-
BCWP	1,063	580	1,108	1,174	837	1,148	1,767	1,171	1,328	1,290	767	-	-
FISCAL YEAR TO DATE													
ACWP	877	1,733	2,768	3,956	4,931	6,277	7,942	9,259	10,320	11,116	11,853	-	-
BCWP	1,063	1,643	2,751	3,925	4,762	5,910	7,678	8,849	10,176	11,467	12,234	-	-
CV	186	(89)	(17)	(31)	(169)	(367)	(264)	(410)	(144)	351	381	-	-
CPI	0.82	1.05	1.01	1.01	1.04	1.06	1.03	1.05	1.01	0.97	0.97	-	-
EAC (Cumulative)	877	1,733	2,768	3,956	4,931	6,277	7,942	9,259	10,320	11,116	11,853	13,249	14,039
Yr End Budget Var	8	(50)	(55)	70	(182)	(74)	(156)	(266)	(153)	246	354	-	790

# F. PROGRAM MANAGEMENT AND SUPPORT - ERC

## SCHEDULE PERFORMANCE (\$'s in 000)

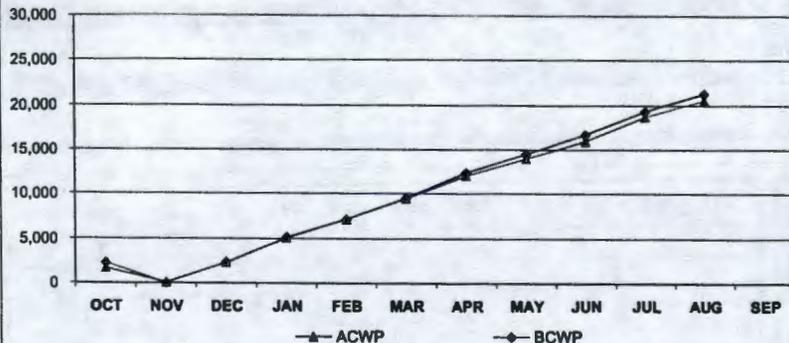


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	2,246	1,915	1,914	2,602	2,050	2,159	2,753	2,233	2,134	2,682	2,219	2,690
DWP (Accum)	2,246	4,161	6,075	8,677	10,727	12,886	15,639	17,872	20,006	22,688	24,907	27,597
CURRENT PERIOD												
BCWS	2,319	(2,154)	2,266	2,816	1,890	2,431	2,812	2,272	2,308	2,748	1,930	5,093
BCWP	2,293	(2,270)	2,304	2,757	2,050	2,377	2,862	2,110	2,253	2,599	1,983	-
FISCAL YEAR TO DATE												
BCWS	2,319	165	2,431	5,247	7,137	9,568	12,380	14,652	16,961	19,709	21,638	26,731
BCWP	2,293	22	2,326	5,083	7,134	9,511	12,373	14,483	16,736	19,335	21,318	-
SV	(26)	(143)	(105)	(164)	(3)	(57)	(7)	(169)	(225)	(374)	(320)	-
SV%	-1.1%	-86.4%	-4.3%	-3.1%	0.0%	-0.6%	-0.1%	-1.2%	-1.3%	-1.9%	-1.5%	-
Yr End Sch Carry Over	0	-	-	-	-	-	-	429	429	788	1,098	-

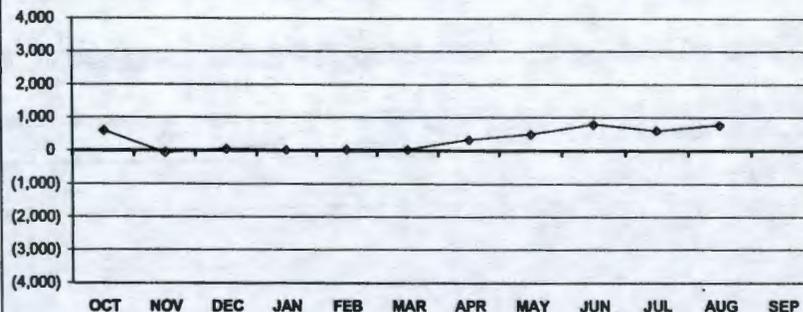
# F. PROGRAM MANAGEMENT AND SUPPORT - ERC

## COST PERFORMANCE (\$'s in 000)

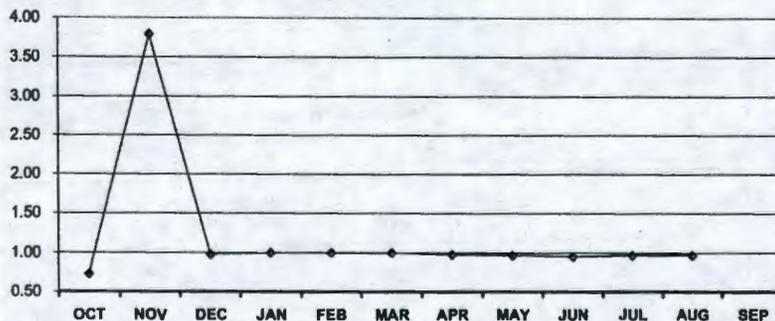
Progress vs. Actuals  
(BCWP vs. ACWP)



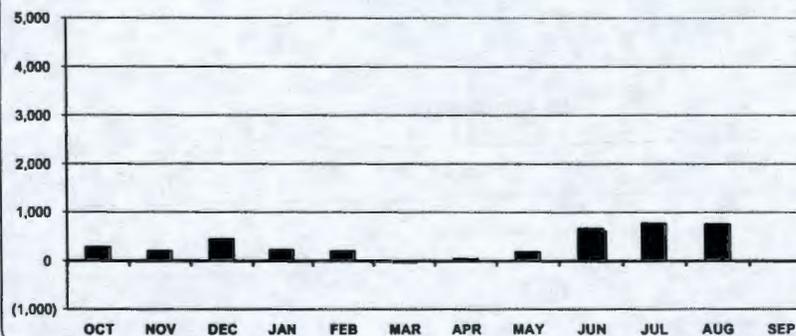
FYTD Cost Variance (CV)  
(BCWP - ACWP)



FYTD Cost Performance Index (CPI)  
(ACWP/BCWP)



Year End Budget Variance  
(Curr Budget - Fiscal Year EAC)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	1,678	(1,592)	2,188	2,793	2,023	2,388	2,554	1,958	1,955	2,772	1,817	-	-
BCWP	2,293	(2,270)	2,304	2,757	2,050	2,377	2,862	2,110	2,253	2,599	1,983	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	1,678	85	2,274	5,067	7,090	9,478	12,032	13,990	15,945	18,716	20,534	-	-
BCWP	2,293	22	2,326	5,083	7,134	9,511	12,373	14,483	16,736	19,335	21,318	-	-
CV	615	(63)	53	16	44	33	341	493	791	618	784	-	-
CPI	0.73	3.80	0.98	1.00	0.99	1.00	0.97	0.97	0.95	0.97	0.96	-	-
EAC (Cumulative)	1,678	85	2,274	5,067	7,090	9,478	12,032	13,990	15,945	18,716	20,534	24,866	25,964
Yr End Budget Var	286	210	442	229	207	(22)	49	194	674	777	767	-	1,098

# M-19-00 & M-91-00

WASTE MANAGEMENT DIVISION

Sen Moy and Russ Warren

September 2000

TPA MILESTONE  
REVIEW

WASTE MANAGEMENT PROJECT

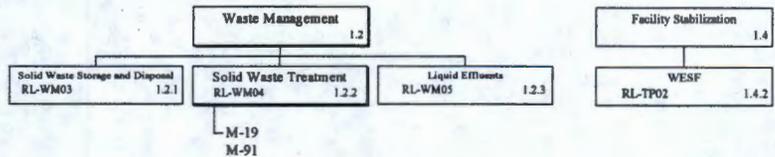
SEPTEMBER 2000

## MILESTONE DESCRIPTION

TPA MILESTONE	DESCRIPTION
M-19-00	<p>Complete treatment and/or direct disposal of at least 1,644 cubic meters of contact handled low level mixed waste already in storage as of October 1, 1995, as well as newly generated Hanford Site low level mixed waste.</p> <p>Cumulative treatment and/or direct disposal rates will be at least 246 cubic meters by the end of FY 2000, 822 cubic meters by the end of FY 2001, and 1,644 cubic meters by the end of FY 2002.</p>
M-91-00	<p>Complete the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford site TRU/TRUM, LLMW, and GTC3.</p>

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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### WORK BREAKDOWN STRUCTURE



TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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### MILESTONE SCHEDULE

WBS (ADS)	BASELINE DATE	FISCAL YEAR 2000												Status			
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1.2.2 (RL-WM04) Solid Waste Treatment	6/30/00														(M-91-03) Submit Hanford Site TRU/TRUM PMP to Ecology	● <sup>1</sup>	PMP submitted to Ecology June 28, 2000.
	9/30/00														(M-91-04) Complete Construction of Retrieval Facility. Initiate TRU Retrieval	● <sup>1</sup>	TRU Retrieval began July 22, 1999. 427 drums retrieved in FY 2000
	9/30/00														(M-19-00) Cumulative Treatment Rate 246 cubic meters	▲	Sanders to Wilson and Sherwood 9935073, 7/20/99
MILESTONE TYPES:		○ <sup>M</sup> TPA MILESTONE	○ <sup>I</sup> TPA INTERIM	⊙ DOE-HQ	⊙ DOE-RL	◇ FORECAST	△ Treatment Rate										

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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**MILESTONE SCHEDULE**

WBS (ADS)	BASELINE DATE	FISCAL YEAR 2001												Status	
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1.2.2 (RL-WM04) Solid Waste Treatment	12/31/00													○ <sup>I</sup> (M-91-01) Complete Acquisition of TRU/TRUM Facilities	Change Request in Preparation.
	12/31/00													○ <sup>I</sup> (M-91-11-T01) Submit LLMW Engineering Study/FDC.	Change Request in Preparation.
	12/31/00													○ <sup>I</sup> (M-91-12) Initiate Thermal Treatment of LLMW.	On Schedule.
	6/29/01													(M-91-18) Transmit T Plant Sludge Storage CDD to Ecology. ○ <sup>I</sup>	On Schedule.
	6/30/01													(M-91-13) Initiate Disposal of LLMW. ● <sup>I</sup>	Trench 34 in Disposal Mode September 15, 1999.
	9/30/01													(M-19-00) Cumulative Treatment Rate 822 cubic meters ▲	Currently at 1,654 cubic meters (see Scorecard).
MILESTONE TYPES:		○ <sup>M</sup> TPA MILESTONE	⊙ DOE-HQ	◇ FORECAST											
		○ <sup>I</sup> TPA INTERIM	⊙ DOE-RL	△ Treatment Rate											

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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**MILESTONE SCHEDULE**

WBS (ADS)	BASELINE DATE	FISCAL YEAR 2002												Status	
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1.2.2 (RL-WM04) Solid Waste Treatment	9/30/02													○ (M-91-19-T01) Complete Physical Activities at T Plant Necessary to Store Floor and PH Sludge	On Schedule.
	9/30/02													(M-19-00) Cumulative Treatment Rate 1,644 cubic meters ● <sup>M</sup>	Currently at 1,654 cubic meters (see Scorecard).
MILESTONE TYPES:		○ <sup>M</sup> TPA MILESTONE	⊙ DOE-HQ	◇ FORECAST											
		○ <sup>I</sup> TPA INTERIM	⊙ DOE-RL	△ Treatment Rate											

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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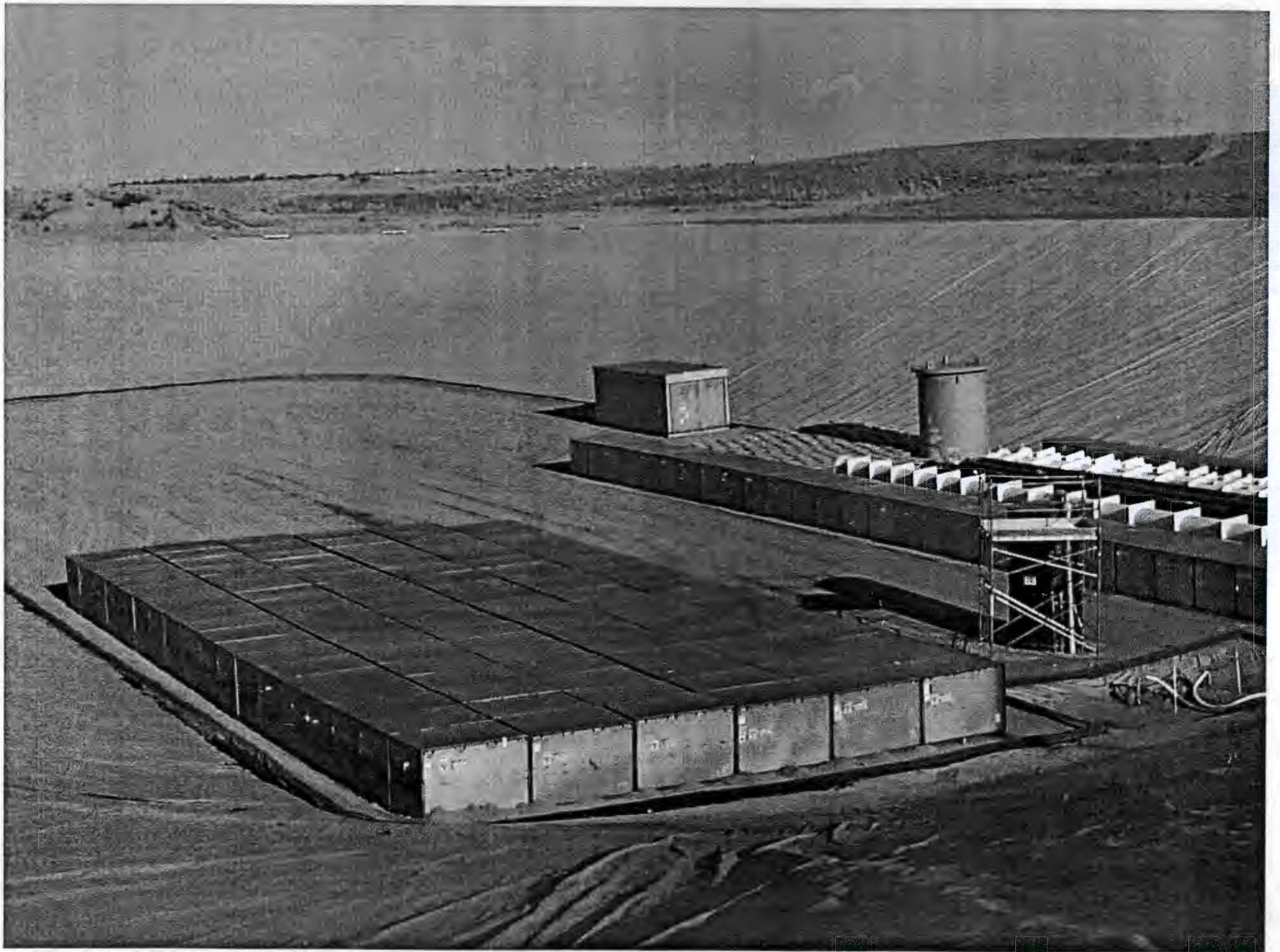
**MILESTONE EXCEPTION REPORT**

TPA MILESTONE	FUTURE MILESTONES IN JEOPARDY
M-91-07	"Complete Project W-113 for Post 1970 CH TRU/TRUM retrieval" by September 2004.
	<b>CHANGE REQUESTS IN PROGRESS</b>
M-91-01	Commitment to establish a date for: "Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, and treatment/processing prior to disposal of all Hanford Site post-1970 TRU/TRUM."
M-91-11-T01	"Complete and submit LLMW treatment facility engineering study/functional design criteria study to Ecology."

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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**M-19 ACCOMPLISHMENTS**

WBS 1.2.2.3	M-19-00 <u>LOW LEVEL MIXED WASTE TREATMENT</u>
	<p>MLLW treatment at ATG continues. As of September 25, 2000 approximately:</p> <ul style="list-style-type: none"> <li>• 1179 m<sup>3</sup> has been shipped to ATG</li> <li>• 1179 m<sup>3</sup> has been treated and</li> <li>• 550 m<sup>3</sup> has been disposed of</li> <li>• a stored CWC inventory reduction of 1860 m<sup>3</sup> has been achieved.</li> </ul> <p>Void fill and direct disposal of 375 drums of ETF powders (78 m<sup>3</sup>) completed.</p> <p>T Plant mixed waste box treated and disposed of (24 m<sup>3</sup>).</p>



TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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### M-19-00 SCORECARD

"Treat and/or directly dispose of at least 246 cubic meters of CH-LLMW by September 2000, 822 cubic meters by September 2001, and 1,644 by September 2002"	<u>Quantity in cubic meters</u>
- ATG Macroencapsulation (as of 9/25/00)	1179
- ETF Powders Disposal (2000)	78
- T Plant Mixed Waste Box (2000)	25
- Macroencapsulation Pilot (1997)	183
- Long Length Equipment (1996/1997)	95
- Backlog Soils Disposal (1997/1999)	79
- B Plant TBP Organic Liquid (1998)	11
- Mixed Waste from PNNL (1998)	2
- Lead Decontamination Project (1998)	1
- WT02/WP02 State-Only Waste (1999)	1
<b>TOTAL M-19 WASTE</b>	<b>1,654</b>

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	SEPTEMBER 2000
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### M-91 ACCOMPLISHMENTS

WBS 1.2.2.3	<b>M-91</b> <u>LLMW and TRU Waste Facilities</u>
	<p>TRU Retrieval (FY1999 and FY2000):</p> <ul style="list-style-type: none"> <li>• Retrieved - 697 (270 in FY99 and 427 in FY00)</li> <li>• Designated TRU - 627</li> <li>• Designated LLW - 70</li> <li>• Total containers shipped to CWC - 217</li> </ul> <p>Submitted "Project Management Plan for Transuranic and Transuranic Mixed Waste" to Ecology (M-91-03).</p>

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**PLANNED ACTIONS**

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-19-00	Treat at least 1060 cubic meters (560 m <sup>3</sup> is FY1999 scope, 500 m <sup>3</sup> is new scope) of MLLW using the non-thermal treatment contract with ATG. Treatment began in December 1999.	9/30/2000
M-19-00	Treat 170 m <sup>3</sup> of MLLW in FY2001 using the non-thermal treatment contract with ATG.	9/30/2001

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**PLANNED ACTIONS (continued)**

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-91-12	Initiate Thermal Treatment of MLLW <ul style="list-style-type: none"> <li>• Trial burns scheduled November 28</li> </ul>	12/31/2000
M-91-12	Treat 250 m <sup>3</sup> of MLLW in FY2001 using the thermal treatment contract with ATG. <ul style="list-style-type: none"> <li>• Scorecard for M-91-12 initiated</li> </ul>	9/30/2001

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### M-91-12 SCORECARD

"Initiate thermal treatment of currently stored and newly generated CHLLMW. At least 600 cubic meters will be provided for treatment by December 2005."	<u>Quantity in cubic meters</u>
- WERF Incineration (2000)	20
<b>TOTAL M-91-12 WASTE</b>	<b>20</b>

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### PLANNED ACTIONS (continued)

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-91-18	Transmit T Plant Sludge Storage CDD to Ecology	6/29/2001

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**EXPENSE COST PERFORMANCE**  
( \$ in Millions )

WBS	FY 2000 TO DATE (Aug)					AT COMPLETION				COMMENTS
	BUDGETED COST		ACTUAL CST	VARIANCE		BAC	FYSF	EXPECTED FUNDS	PROJECTED CARRYOVER	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST	BCWS		FY 2000	WORK	
1.2.2.3 M-19 AND M-91 TREATMENT	5.1	5.2	4.7	0.1	0.5	5.8	4.9	5.8	0.2	Carryover: TRU Retrieval \$55K ATG Box Returns \$100K

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**EXPENSE SCHEDULE VARIANCE ANALYSIS**

WBS	SCHEDULE VARIANCE \$53K	
1.2.2.3	<u>(Description and Cause:)</u> <ul style="list-style-type: none"> <li>• RMW Treatment ahead of schedule.</li> </ul>	<u>(Impacts and Corrective Action:)</u> <ul style="list-style-type: none"> <li>• No impacts.</li> </ul>

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### EXPENSE COST VARIANCE ANALYSIS

WBS	COST VARIANCE \$538K	
	(Description and Cause:)	(Impacts and Corrective Action:)
1.2.2.3	<ul style="list-style-type: none"> <li>Cost efficiencies have occurred in shipment and return processing.</li> </ul>	<ul style="list-style-type: none"> <li>No impact. Efficiencies will continue. Cost savings will be prioritized to fund other work (e.g., T Plant Sludge Preparations).</li> </ul>

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### M-19 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-19-00	6/00	Lack of progress on review and approval of delisting petition to allow disposal of U and P waste.	<ul style="list-style-type: none"> <li>3800 m<sup>3</sup> of waste at CWC has no path forward for disposal due to U and P codes.</li> <li>Providing a path forward reduces long-range impacts on storage space, reduces maintenance and operational costs at CWC, and no longer requires us to exceed the 1-yr storage prohibition.</li> </ul>	Petition submitted December 1998. Awaiting EPA review.

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### M-91 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-91-07	6/99	Milestone cannot be accomplished as written due to funding limitations.	Replacement milestone will need to be renegotiated.	Replacement milestone will be based on funding profile.