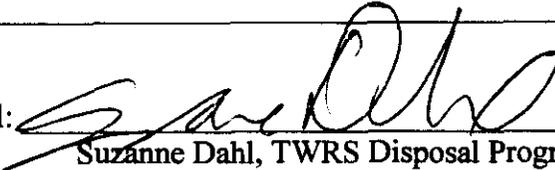


Meeting Minutes Transmittal/Approval  
 Tank Waste Remediation System  
 Tri-Party Agreement Project Managers' Meeting  
 Federal Building, Room 248  
 Richland, Washington

December 10, 1998

Approval:

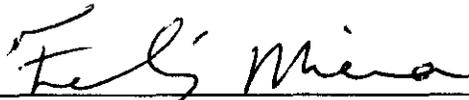


Suzanne Dahl, TWRS Disposal Program Manager  
 Washington State Department of Ecology

Date:

March 18 '99

Approval:

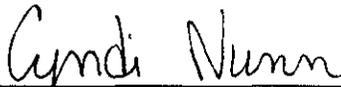


Felix Miera, TWRS TPA Milestone Manager  
 U.S. Department of Energy, Richland Operations Office

Date:

3/20/99

Approval:



Cyndi Nunn, Coordinator  
 Jacobs Engineering Group Inc.

Date:

3/18/99

Meeting Minutes are attached. Minutes are comprised of the following:

- Attendance and Meeting Minutes Summary/Action Items
- Presentation Package/Agenda
- Handout: M-44-00 status supplement
- Handout: M-46-00 status
- Handout: M-50, 51, 60, 61-00 status
- Copy of letter from Ecology to George Sanders re: "Ecology's Response to the USDOE Recommendations on New Tanks Pursuant to M-46-01E (rcvd 12/1/98 from DOE-RL)"





**Attendance:**

**DOE**

Harry Calley  
Pete Furlong  
Dennis Irby  
Susan Johnson  
Phil LaMont  
Felix Miera  
Jim Navarro  
Bruce Nicoll  
Carolina Pacheco  
Mark Ramsay  
Hector Rodriguez  
Jim Thompson

**ECOLOGY**

Dave Dougherty  
Richard Heggen  
Bob Julian  
Scott McKinney  
Casey Ruud

**CONTRACTORS**

Mary Ann McLaughlin, FDH  
Cyndi Nunn, Jacobs Engineering  
Maura Oldfield, Jacobs Engineering  
Ana Sherwood, WMH

**Action Items Generated:**

Provide R. Heggen with the M-43-11 TPA completion letter.	M. McLaughlin	
Provide R. Heggen with the M-43-12 TPA completion letter.	J. Navarro	
Provide point-of-compliance when transfer reaches the end of the line (DCRT lift station).	J. Navarro	
Provide copy of project priority list to S. Dahl.	P. Morehouse	
Provide copy of letter (giving directions to contractors) to S. Dahl.	P. Morehouse	
Check with FDH and inform S. Dahl if there is any opportunity for Ecology involvement in BR process.	P. Morehouse	
Contact P. Bengtson concerning the public forum for privatization.	S. Dahl, M. Turner	
Schedule meeting between DOE and Ecology representatives to review, plan, and address the Transfer Facility Compliance Plan (M-32) issues.	F. Miera	01/21/99
Prepare a "measure of success" report since milestones were renegotiated a year ago.	J. Thompson	
Investigate why Ecology is not receiving copies of documents from correspondence control.	F. Miera	01/21/99

Provide C. Ruud with information on the sitewide tax and how this affected TWRS and the vadose zone project.	S. Johnson	01/21/99
Forward a copy of the approval letter to S. McKinney.	C. Pacheco	01/21/99
Provide S. McKinney with information on DQOs for C-104.	J. Thompson	01/21/99
Schedule meeting with S. Dahl to discuss the bi-monthly reports for M-45-00.	F. Miera	01/21/99

**INTRODUCTION AND REVIEW OF ACTION ITEMS – FELIX MIERA, DOE-RL**

F. Miera reviewed the action items from the previous meeting.

R. Heggen commented on Ecology representatives not receiving TPA-related correspondence. F. Miera will investigate this with correspondence control.

S. Johnson will check with P. Morehouse to verify the status of action items from the October 15, 1998 meeting.

**FY 1999 COST/SCHEDULE INFO – SUSAN JOHNSON, DOE-RL**

S. Johnson provided the year-to-date cost and schedule information. Enterprise companies are not included in the October data. The TWRS program has a positive cost variance of 4 percent.

The Multi-year Work Plan (MYWP) was delivered to DOE-RL on 12/4/98. A copy was delivered to Ecology last week also. Comments related to the MYWP should be forwarded to J. Peschong by 12/22/98.

The reprogramming package is currently in concurrence at RL for submittal to DOE-HQ.

C. Ruud asked if TWRS was impacted by the sitewide tax. S. Johnson will check on that and will let C. Ruud know.

**TPA MILESTONE STATISTICS – MARY ANN MCLAUGHLIN, FDH**

M. McLaughlin reviewed the major and interim milestones. There are 161 active milestones. C. Ruud suggested we have a way to track milestones that are under consent decree.

C. Ruud expressed his concern that no due date has been established for M-32-06 and M-32-06-T01. M. McLaughlin stated that they are both bound by the M-32-00 due date.

M. McLaughlin stated the change requests for M-41-98-01 and M-45-98-03.

**M-32-00, COMPLETE IDENTIFIED DANGEROUS WASTE TANK CORRECTIVE ACTIONS – ANA SHERWOOD, WMH**

A. Sherwood reported on the status of M-32-00. The Integrity Assessment has been submitted. Also, ultrasonic testing has begun on the double-shell tanks. Reviewed the status and planned activities for M-32-00.

**M-40-00, SAFETY ISSUE RESOLUTION – DENNIS IRBY, DOE-RL**

D. Irby reported that the technical portion is complete for M-40-12. Currently working on the administrative portion. The M-40-07 dispute has been extended to December 15, 1998 IAMIT meeting, with consideration to include it in the Consent Decree for M-41.

**M-43-00, TANK FARM UPGRADES – JIM NAVARRO, DOE-RL**

J. Navarro reported M-43-11 was met for this year and M-43-12, due 9/30/99, was completed ahead of schedule.

Construction began on AN tank farm. Valve pits have been redesigned on AZ tank farm.

The final baseline report is due January 1999.

**OTHER: PERMITTING – HECTOR RODRIGUEZ, DOE-RL**

H. Rodriguez discussed the permitting section.

**M-41-00, INTERIM STABILIZATION – CAROLINA PACHECO, DOE-RL**

C. Ruud reported on the negotiations for the consent decree. The schedule is being finalized and the final package should be ready by December 18, 1998.

C. Pacheco reported that four tanks are currently pumping. In FY 98, 55,000 gallons were pumped.

Co-mingling of waste was approved. Phase I privatization tanks are not affected. S. McKinney requested a copy of the approval letter. C. Pacheco will forward a copy of the approval letter to S. McKinney.

C. Pacheco reported that determining method for retrieval of organic layer in C-103 (M-40-07) should happen by December 2000.

**M-44-00, TANK WASTE CHARACTERIZATION – JIM THOMPSON, DOE-RL**

J. Thompson distributed a supplement status for M-44-00 (handout attached). He asked if Ecology received the quarterly report. D. Dougherty reported that they had not.

J. Thompson reported there have been sampling problems with SY-101. Lab is working on recovery plan to meet milestone.

J. Thompson will find out about DQOs for C-104 for S. McKinney.

**M-45-00, SINGLE SHELL TANK CLOSURE – BRUCE NICOLL, DOE-RL**

B. Nicoll provided update on C-106 sluicing and why work was halted. During the sluicing, which began on Oct. 27, 1998, 12,000 gallons of supernate were moved. On Nov. 18, 1998, 2-3 inches of solid were moved in a few hours. Then there were problems with workers smelling unknown vapors. No sluicing has taken place since the incident.

S. McKinney asked if bi-monthly reports were issued. B. Nicoll stated the reports have not been completed. F. Miera recommends a meeting with S. Dahl to discuss the bi-monthly reports.

**M-46-00, DOUBLE SHELL TANK SPACE EVALUATION – MARK RAMSAY, DOE-RL**

M. Ramsay asked about M-46-01E and why it is noted as missed. S. McKinney noted that the milestone is complete. M. Ramsay distributed a letter addressed to George Sanders regarding Ecology's response to the USDOE Recommendations on New Tanks Pursuant to M-46-01E (letter attached).

**M-50, 51, 60, 61-00, TREATMENT AND IMMOBILIZATION OF HANFORD TANK WASTE – PETE FURLONG, DOE-RL**

P. Furlong distributed a status sheet for near-term deliverables (handout attached). BNFL continues to work on deliverables. Reviewed a series of near-term deliverables.

**M-90-00, IHLW AND ILAW STORAGE AND DISPOSAL FACILITIES – PHIL LAMONT, DOE-RL**

P. LaMont reviewed status of M-90-01, 90-05T, 90-07T, and 90-12. P. LaMont recommends that the "Performance Objective" report be sent to Ecology for comments before public dissemination with a letter from George Sanders. P. LaMont would like formal comments from Ecology.

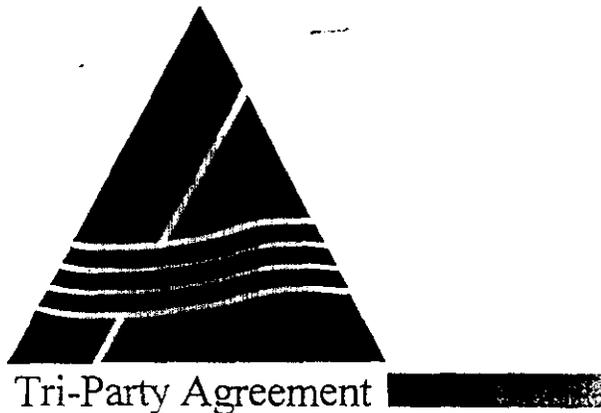
**M-20-00 – PHIL LAMONT, DOE-RL**

P. LaMont reported that these milestones need to be reviewed due to BNFL schedule.

Tank Waste Remediation System

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# Tri-Party Agreement Project Managers' Meeting



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

December 10, 1998

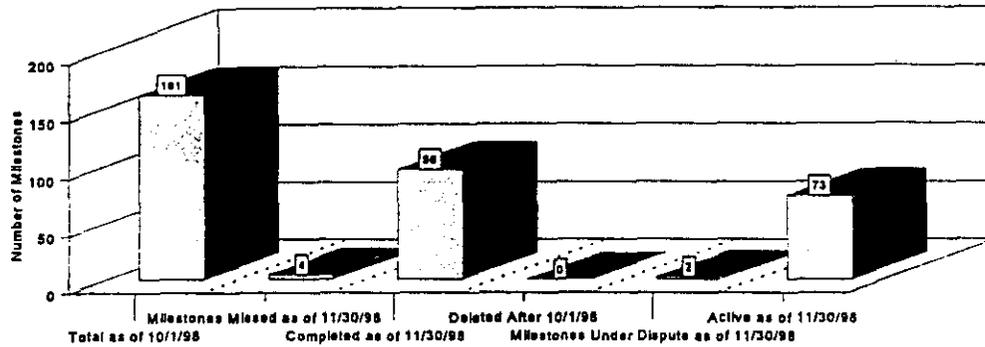
# Agenda

Tank Waste Remediation System Tri-Party Agreement Project Managers' Meeting  
 December 10, 1998  
 Federal Building Room 248  
 9:00 am - 12:30 pm

TOPIC	DISCUSSION LEADS	TIME
<b>Introduction</b>	Felix Miera	9:00
<b>Review Previous PMM Action Items</b>	Felix Miera	9:05
<b>FY 1999 Cost, Schedule, and Tri-Party Agreement Milestone Performance Overview</b>	Jon Peschong	9:20
<b>FY 1999 TWRS Tri-Party Agreement Milestones Status/Issues/Planned Activities</b>	Felix Miera	9:30
M-32-00, Complete Identified Dangerous Waste Tank Corrective Actions	Felix Miera	9:45
M-40-00, Safety Issue Resolution	Dennis Irby	9:55
M-41-00, Interim Stabilization	Lina Pacheco/ Casey Ruud	10:05
M-43-11, Tank Farm Upgrades	Jim Navarro/ Dick Heggen	10:30
M-44-00, Tank Waste Characterization	Jim Poppiti/ Dave Dougherty	10:45
M-45-00, Single Shell Tank Closure	Bruce Nicoll/ Scott McKinney	11:00
M-46-00, Double Shell Tank Space Evaluation	Mark Ramsay/ Scott McKinney	11:15
M-50, 51, 60, 61-00, Treatment and Immobilization of Hanford Tank Waste	Pete Furlong/ Suzanne Dahl	11:30
M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and storage/disposal of ILAW	Phil LaMont/ Bob Julian	11:45
<b>Other</b>	Dennis Bowser/ Suzanne Dahl	Noon
• Permitting (RCRA, CAA)		
• FSAR		
• Vadose Zone	Dave Olson/Jim Poppiti	
• Public Involvement		
<b>Closing Comments / Action Item Recap</b>	Felix Miera/ Suzanne Dahl	12:15

### TPA Milestone Statistics

(Major and Interim Milestones)

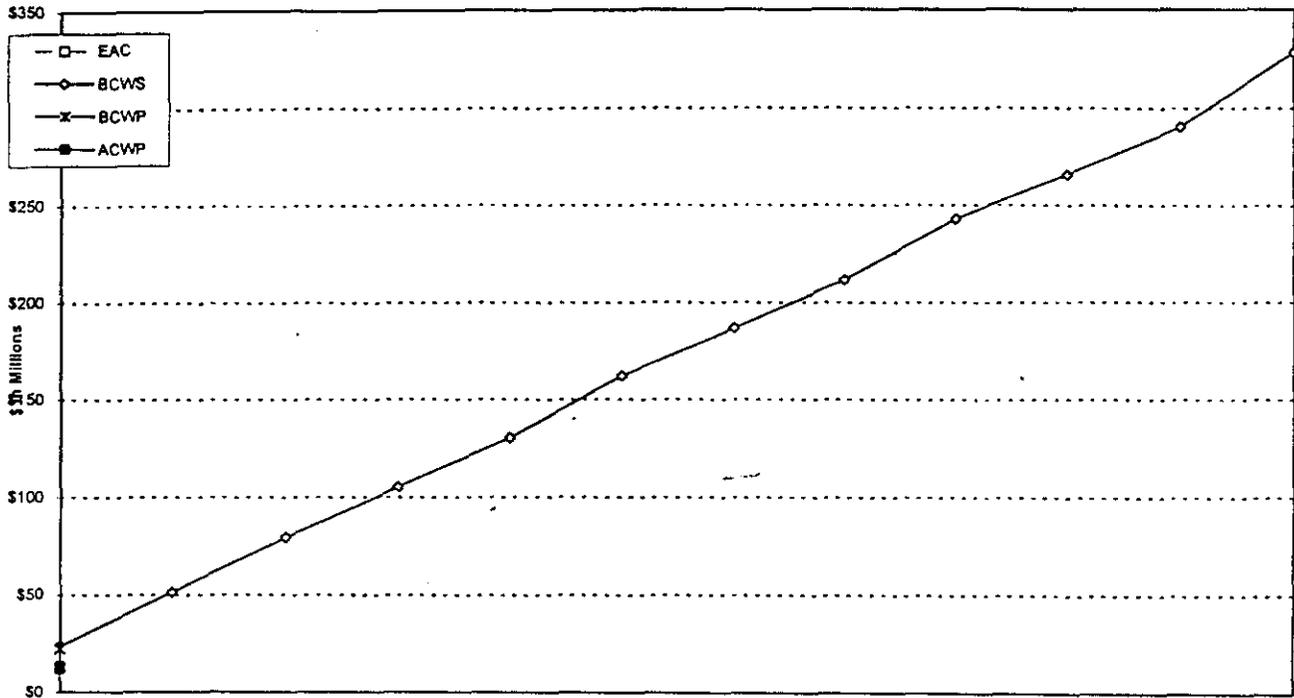


Milestone Completion Date	Total Milestones as of 10/1/98	Milestones Completed as of 11/30/98	Milestones Deleted After 10/1/98	Milestones Under Dispute as of 11/30/98	Milestones Active as of 11/30/98	Milestones Missed as of 11/30/98
M-40-00 Mitigate/Resolve Tank Safety Issues for High Priority Watchlist Tanks	19	17	0	1	2	0
M-41-00 Complete Single Shell Tank Interim Stabilization	19	12	0	1	7	2
M-43-00 Complete Tank Farm Upgrades	20	15	0	0	5	0
M-44-00A Double and Single Shell Tank Characterization	34	19	0	0	15	0
M-45-00 Complete Closure of all Single Shell Tank Farms	29	11	0	0	18	1
M-46-00 Double Shell Tank Space Evaluation	20	9	0	0	11	1
M-50-00 Complete Pretreatment Processing of Hanford Tank Wastes	4	2	0	0	2	0
M-51-00 Complete Vitrification of Hanford High Level Tank Waste	4	2	0	0	2	0
M-60-00 Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste	(12)*	8	0	0	(4)*	0
M-61-00* Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste	4	0	0	0	4	0
M-90-00 Interim Storage and Disposal of LAW and Interim Storage of HLW	8	1	0	0	7	0
<b>Total</b>	<b>161</b>	<b>96</b>	<b>0</b>	<b>2</b>	<b>73</b>	<b>4</b>

\*DOE abandoned the primary path per letter dated June 18, 1998. M-60-00 milestones were automatically deleted from the Tri-Party Agreement, and M-61-00 milestones were activated under the alternate path (Ecology and EPA stated their disagreement with this footnote at the July 28, 1998 IAMIT meeting).

### Tank Waste Remediation System

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status



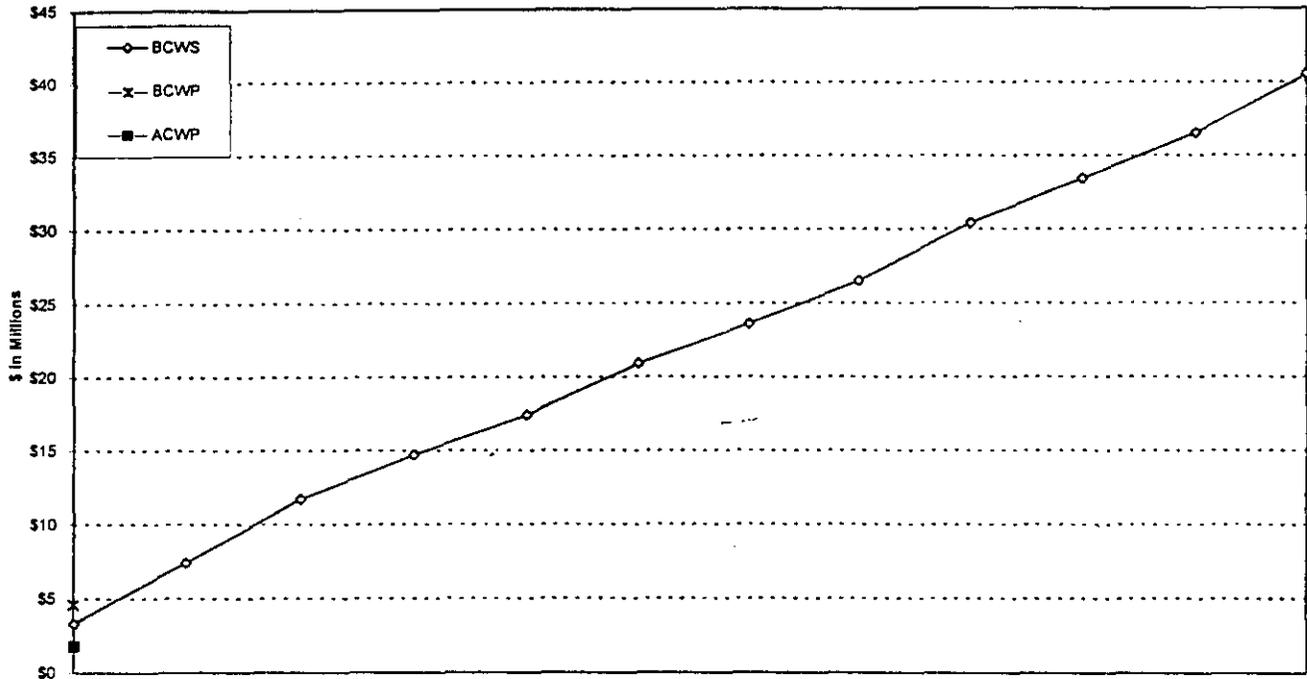
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAC												
MYWP												
BCWS	23.7	51.4	79.5	105.2	130.2	162.0	186.8	211.5	242.9	265.8	290.5	328.3
BCWP	22.2											
ACWP	12.7											
SV	(1.5)											
CV	9.5											

\*This information is contained in the Hanford Site Performance Report, available on the Internet under DOE Hanford's Home Page at [www.hanford.gov/hspr/toc.htm](http://www.hanford.gov/hspr/toc.htm). Slight differences in totals may be due to rounding.

				FYTD					PTS
				BCWS	BCWP	ACWP	SV	CV	Cur BSLN
1.1.1.1	TWRS Management Support	Expense		2.6	2.4	2.3	(0.2)	0.2	0.0
TW10		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.1.1			2.6	2.4	2.3	(0.2)	0.2	0.0
<b>WASTE STORAGE</b>									
1.1.2.1	Tank Farm Operations	Expense		9.9	7.8	5.3	(2.1)	2.5	0.0
TW03		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.7	0.7	0.3	(0.1)	0.4	0.0
	Subtotal 1.1.2.1			10.6	8.5	5.6	(2.2)	2.9	0.0
1.1.2.2	Tank Safety Issue Resolution	Expense		1.3	1.3	0.4	0.0	0.8	0.0
TW02		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.2.2			1.3	1.3	0.4	0.0	0.8	0.0
1.1.2.4	Tank Waste Characterization	Expense		3.4	4.6	1.8	1.2	2.8	0.0
TW01		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.2.4			3.4	4.6	1.8	1.2	2.8	0.0
<b>TOTAL WASTE STORAGE</b>			Expense	14.6	13.7	7.6	(1.0)	6.1	0.0
			CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
			GPP/LI	0.7	0.7	0.3	(0.1)	0.4	0.0
<b>Total Waste Storage</b>				15.3	14.4	7.9	(1.1)	6.5	0.0
<b>WASTE DISPOSAL</b>									
1.1.3.1	Retrieval	Expense		3.9	3.6	1.8	(0.3)	1.8	0.0
TW04		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.1	0.3	0.1	0.1	0.2	0.0
	Subtotal 1.1.3.1			4.0	3.9	1.9	(0.2)	2.0	0.0
1.1.3.4	Immobilized Tank Waste	Expense		0.3	0.3	0.4	0.0	(0.1)	0.0
TW09	Storage & Disposal	CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.3.4			0.3	0.3	0.4	0.0	(0.1)	0.0
1.1.3.5	Process Waste Support	Expense		0.5	0.5	0.3	(0.1)	0.1	0.0
TW05		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.3.5			0.5	0.5	0.3	(0.1)	0.1	0.0
1.1.3.6	TWRS Privatization	Expense		0.3	0.2	0.0	0.0	0.2	0.0
		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal 1.1.3.6			0.3	0.2	0.0	0.0	0.2	0.0
<b>TOTAL WASTE DISPOSAL</b>			Expense	5.0	4.7	2.6	(0.4)	2.1	0.0
			CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
			GPP/LI	0.2	0.3	0.1	0.1	0.2	0.0
<b>Total Waste Disposal</b>				5.2	5.0	2.7	(0.3)	2.3	0.0
<b>HTI</b>									
	HTI	Expense		0.5	0.5	(0.1)	0.0	0.6	0.0
		CENRTC		0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI		0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal HTI			0.5	0.5	(0.1)	0.0	0.6	0.0
<b>TANK WASTE REMEDIATION SYSTEMS</b>			Expense	22.8	21.2	12.3	(1.5)	8.9	0.0
			CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
			GPP/LI	0.9	0.9	0.4	0.1	0.6	0.0
<b>TWRS Total</b>				23.7	22.1	12.7	(1.4)	9.5	0.0

### Tank Waste Characterization

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	3.3	7.4	11.7	14.7	17.4	20.9	23.6	26.5	30.4	33.4	36.5	40.5
BCWP	4.6											
ACWP	1.8											
SV	1.2											
CV	2.8											

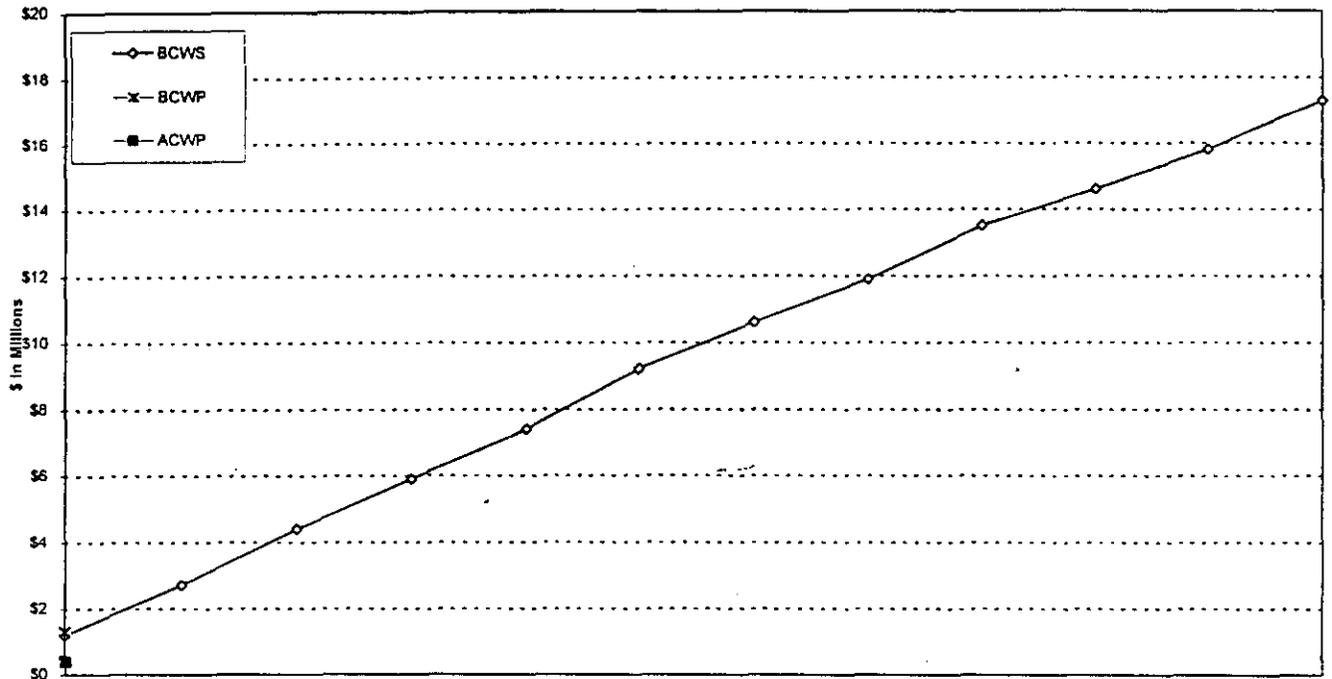
Note: BCWS data indicates PHMC data only.

		FYTD					PTS	
PBS		BCWS	BCWP	ACWP	SV	CV	Cur	BSLN
TW01	Expense	3.4	4.6	1.8	1.2	2.8	0.0	0.0
	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total TW01		3.4	4.6	1.8	1.2	2.8		0.0

\$ in Millions

### Tank Safety Issue Resolution

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	1.2	2.7	4.4	5.9	7.4	9.2	10.6	11.9	13.5	14.6	15.8	17.3
BCWP	1.3											
ACWP	0.4											
SV	0.0											
CV	0.8											

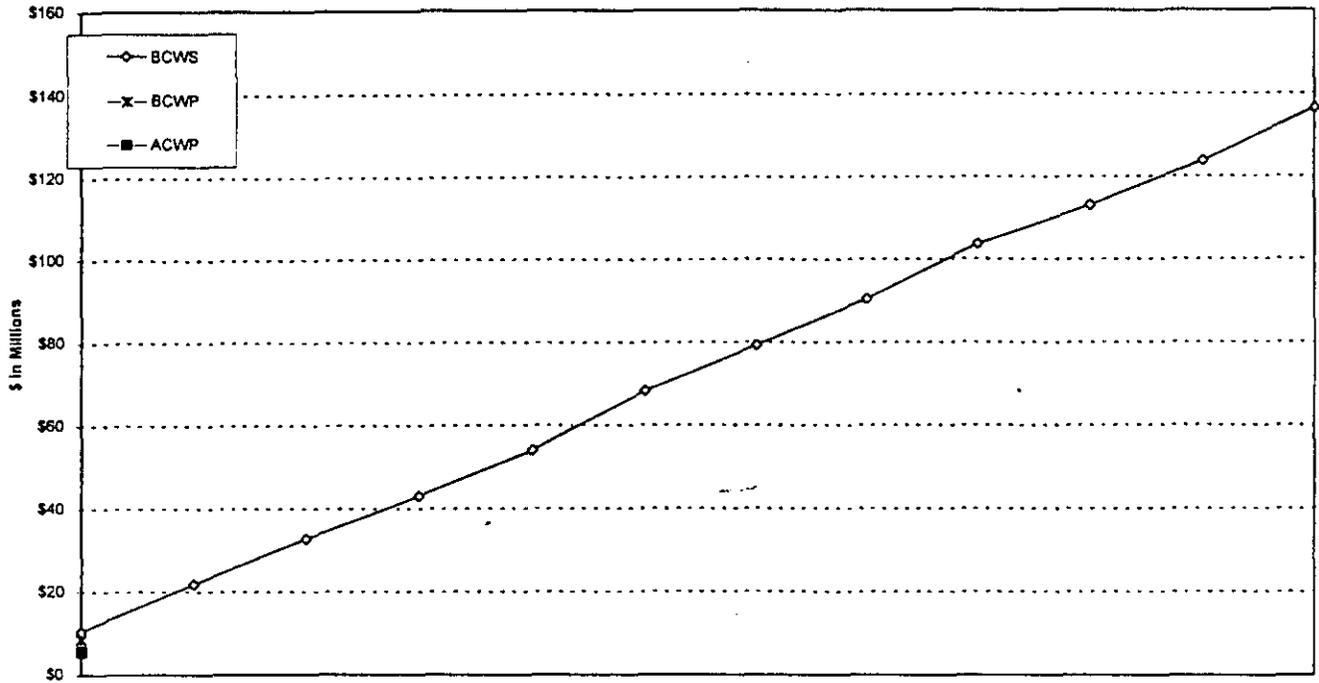
Note: BCWS data indicates PHMC data only.

					FYTD				PTS	
					BCWS	BCWP	ACWP	SV	CV	Cur BSLN
PBS										
TW02				Expense	1.3	1.3	0.4	0.0	0.8	0.0
				CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
				GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
				Total TW02	1.3	1.3	0.4	0.0	0.8	0.0

\$ in Millions

### Tank Farms Operations

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status



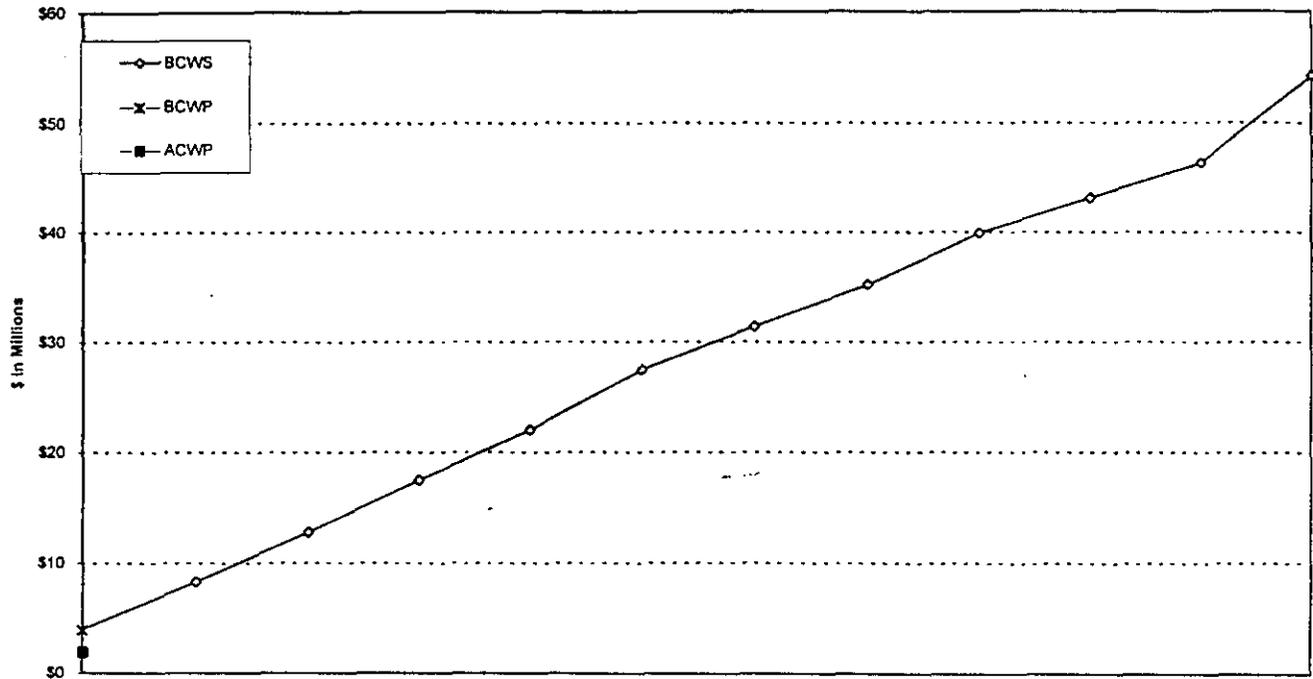
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	10.4	21.8	32.7	43.1	54.0	68.2	79.3	90.4	103.5	113.1	123.8	136.5
BCWP	8.5											
ACWP	5.6											
SV	(2.2)											
CV	2.8											

Note: BCWS data indicates PHMC data only.

		FYTD					
		BCWS	BCWP	ACWP	SV	CV	Cur BSLN
PBS							
TW03	Expense	9.9	7.8	5.3	(2.1)	2.5	0.0
	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI	0.7	0.7	0.3	(0.1)	0.4	0.0
	Total TW03	10.6	8.5	5.6	(2.2)	2.9	0.0

### Retrieval

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status



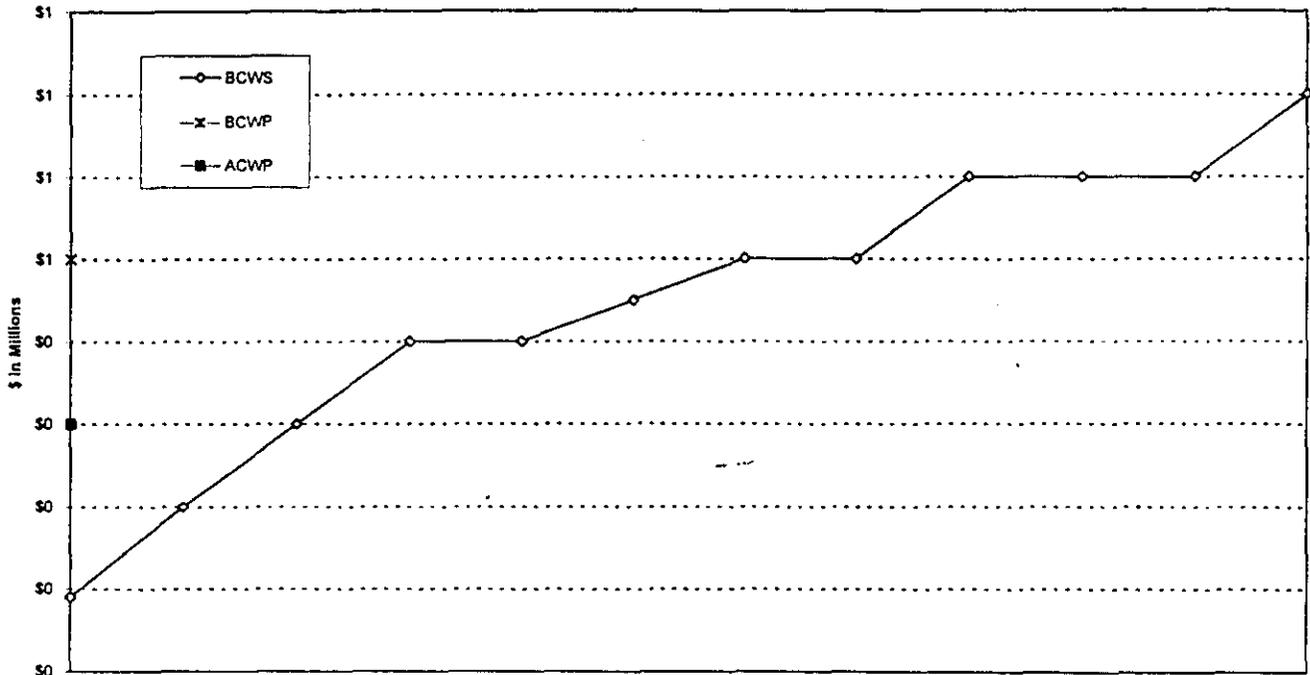
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	4.0	8.3	12.8	17.5	22.0	27.4	31.4	35.2	39.9	43.1	46.3	54.2
BCWP	3.9											
ACWP	1.9											
SV	(0.2)											
CV	2.0											

Note: BCWS data indicates PHMC data only.

		FYTD								
		BCWS	BCWP	ACWP	SV	CV	Cur	BSLN		
PBS										
TW04	Expense	3.9	3.6	1.8	(0.3)	1.8		0.0		
	CENRTC	0.0	0.0	0.0	0.0	0.0		0.0		
	GPP/LI	0.1	0.3	0.1	0.1	0.2		0.0		
	Total TW04	4.0	3.9	1.9	(0.2)	2.0		0.0		

### Process Waste Support

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status

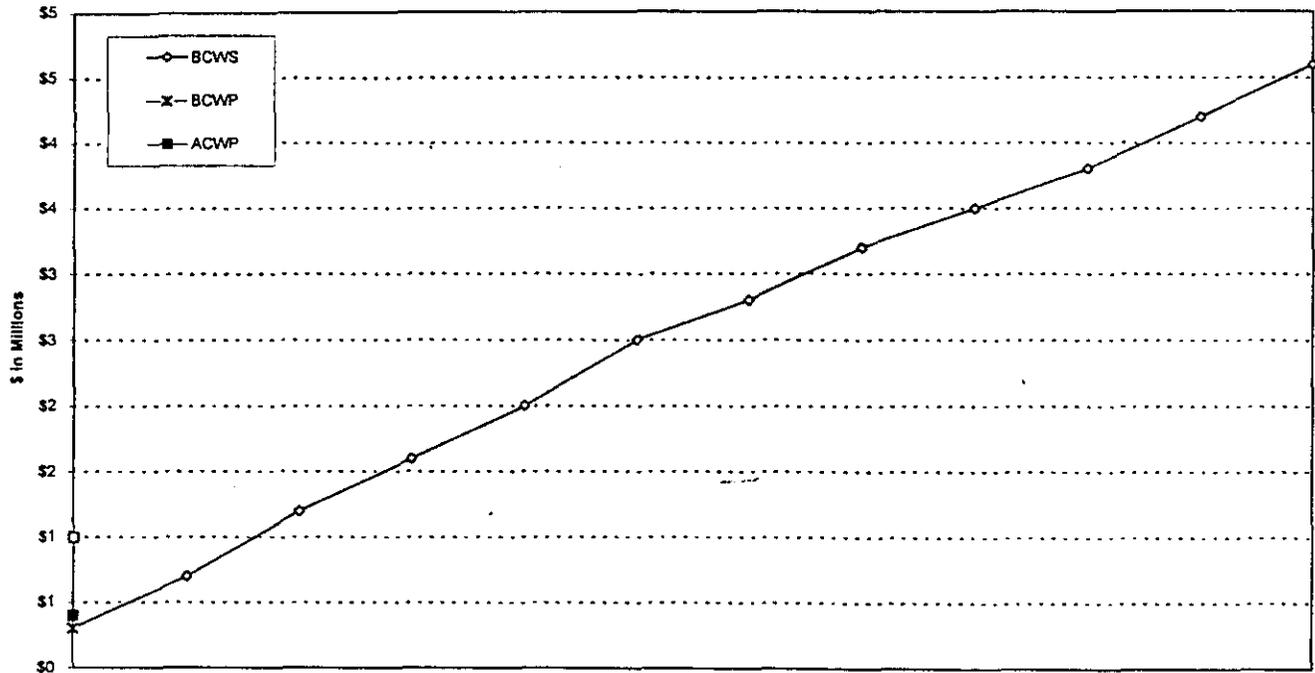


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7
BCWP	0.5											
ACWP	0.3											
SV	(0.1)											
CV	0.1											

Note: BCWS data indicates PHMC data only.

				FYTD					PTS	
				BCWS	BCWP	ACWP	SV	CV	Cur BSLN	
1.1.3.5	Process Waste Support			Expense	0.5	0.5	0.3	(0.1)	0.1	0.0
				CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
				GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal TW05				0.5	0.5	0.3	(0.1)	0.1	0.0

### Immobilized Tank Waste Storage & Disposal FY 1999 Cost/Schedule Performance - All Fund Types - Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	0.3	0.7	1.2	1.6	2.0	2.5	2.8	3.2	3.5	3.8	4.2	4.6
BCWP	0.3											
ACWP	0.4											
SV	0.0											
CV	(0.1)											

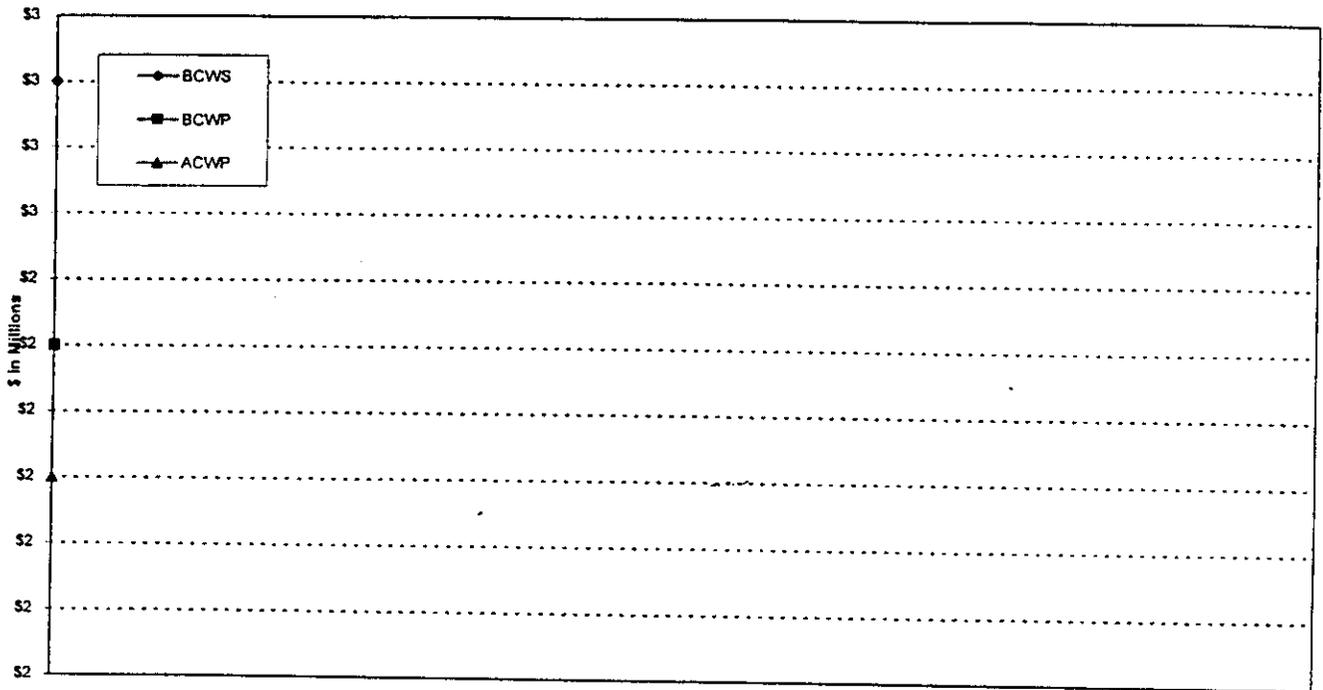
Note: BCWS data indicates PHMC data only.

	FYTD					PTS Cur BSLN	
	BCWS	BCWP	ACWP	SV	CV		
PBS							
TW09	Expense	0.3	0.3	0.4	0.0	(0.1)	0.0
	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
	Total TW09	0.3	0.3	0.4	0.0	(0.1)	0.0

\$ in Millions

### TWRS Project Management

FY 1999 Cost/Schedule Performance - All Fund Types -- Cumulative to Date Status

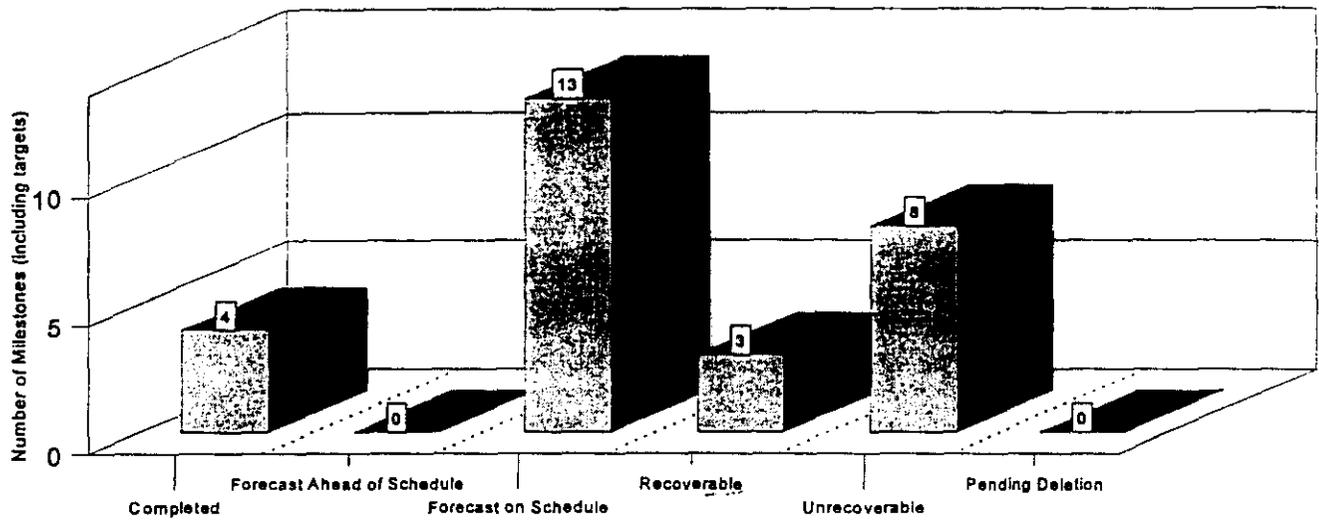


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	2.6											
BCWP	2.4											
ACWP	2.3											
SV	(0.2)											
CV	0.2											

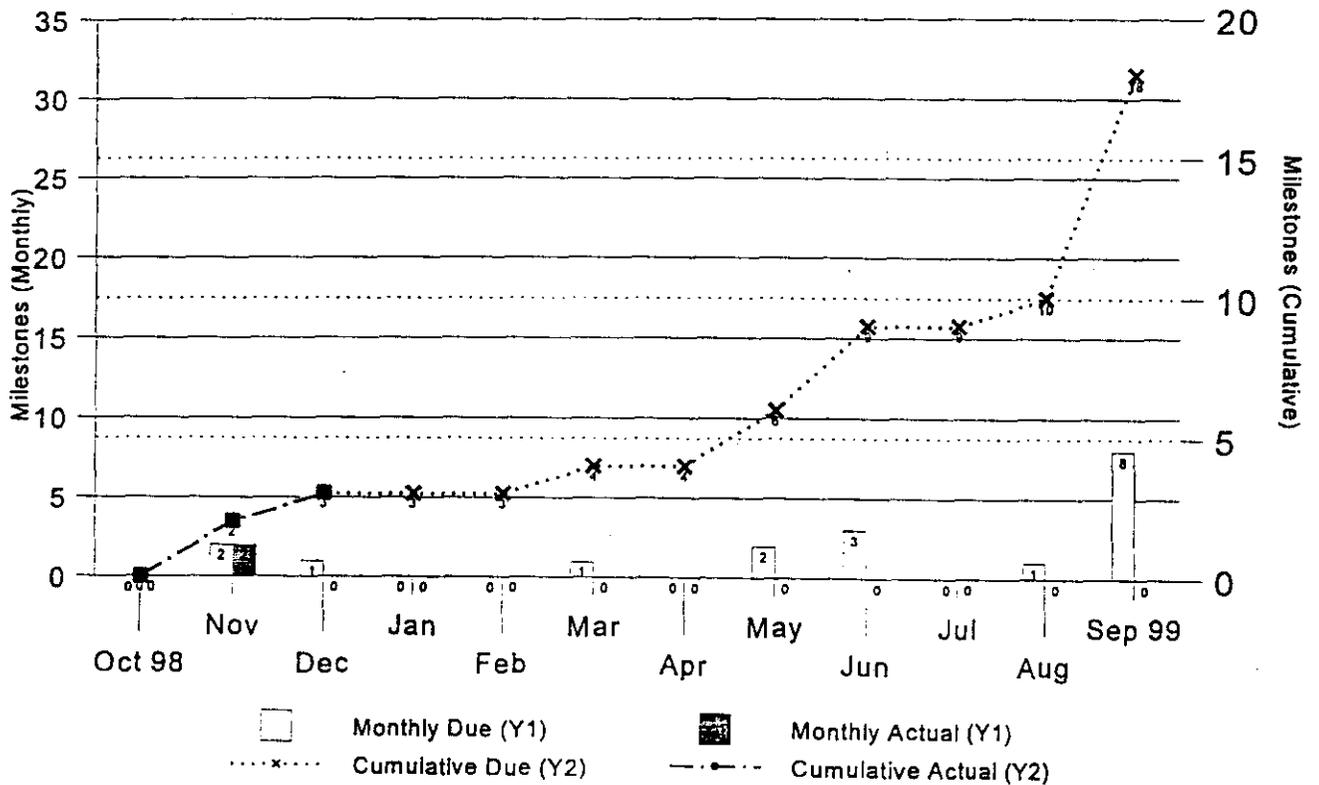
		FYTD					PTS
		BCWS	BCWP	ACWP	SV	CV	Cur BSLN
PBS							
TW10	Expense	2.6	2.4	2.3	(0.2)	0.2	0.0
	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0
	Total TW10	2.6	2.4	2.3	(0.2)	0.2	0.0

\$ in Millions

### FY 1999 Milestone Performance



### FY 1999 Milestone Plan



Fiscal Year 1999 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion
				Ahead of Schedule	On Schedule			
M-32-00	Complete Identified Dangerous Waste Tank Corrective Actions.	9/30/99				X		
M-32-06	Complete 244-AR Vault Interim Status Tank Actions.	TBD				X		
M-32-06-T01	Complete and Submit Integrity Assessment Report and Identified Upgrades for 244-AR Vault Interim Status Tank System. Provide a Schedule to Address any Deficiencies Related to Tank System Compliance.	TBD				X		
M-40-12	Resolve Nuclear Criticality Safety Issue.	9/30/99			X			
M-41-00	Complete Interim Stabilization of all SST's.	9/30/00					X	
M-41-22	Start Interim Stabilization of 6 SST's.	9/30/97					X	
M-41-23	Start Interim Stabilization of 8 SST's.	3/31/98					X	

Fiscal Year 1999 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion
				Ahead of Schedule	On Schedule			
M-41-24	Start Interim Stabilization of 9 SSTs.	9/30/98					X	
M-41-25	Start Interim Stabilization of 3 SSTs.	3/31/99					X	
M-41-26	Start Interim Stabilization of 2 SSTs.	9/30/99					X	
M-41-27-T03	Complete Salt Well Pumping of 5 SSTs	9/30/98					X	
M-41-27-T04	Complete Salt Well Pumping of 8 SSTs.	9/30/99					X	
M-43-12	Start Construction for Upgrades in the First Tank Farm.	6/30/99	X					
M-44-13C	Submit Draft WRD to Ecology for FY 2000.	6/30/99			X			
M-44-14C	Submit Final WRD for FY 2000 to Ecology.	8/31/99			X			
M-44-15C	Issue Characterization Deliverables Consistent with WRD Developed for FY 1999.	9/30/99			X			
M-44-16C	Complete Input of Characterization Information for HLW Tanks per WRD Sampling into Electronic Database. Offsite Access to be Available to EPA and Ecology.	9/30/99			X			

## Fiscal Year 1999 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion
				Ahead of Schedule	On Schedule			
M-45-02D	Submit Annual Update of SST Retrieval Sequence Document for Ecology Approval.	9/30/99			X			
M-45-03A	Initiate Sluicing Retrieval of C-106.	10/31/97	X					
M-45-09D	Submit Annual Progress Reports on the Development of Waste Tank Leak Monitoring and Mitigation Activities in Support of M-45-08.	9/30/99			X			
M-45-10A-T1	Submit DOE Approved DQO for Tank Waste Retrieval.	5/31/99			X			
M-46-00F	Double Shelf Tank Space Evaluation.	9/30/99			X			
M-46-01E	Concurrence of Additional Tank Acquisition.	11/30/98			X			
M-50-04-T02	Initiate Definitive Design of the HLW Pretreatment Facility.	11/30/98	X					
M-51-03-T02	Initiate Definitive Design of the HLW Vitrification Facility.	12/31/98			X			
M-51-04B-T1	Submit Approved DQO for HLW Feed Staging.	5/31/99			X			
M-90-12	Submit Revised Canister Storage Facility Part A Dangerous Waste Permit Application to Ecology.	6/30/99			X			
TOTAL			4	0	13	3	8	0

\*See footnote on page 1.

**Change Request M-41-98-01**

Submitted to Ecology July 2, 1998. Disapproved by Ecology on July 16, 1998. DOE invoked dispute on July 21, 1998; elevated to IAMIT on August 20, 1998. Dispute extended at Director level pending outcome of M-41-22 and M-41-23 discussions.

**Change Request M-45-98-03  
SST Corrective Action  
Groundwater/Vadose Zone**

Dispute resolution for proposed SST corrective action elevated to IAMIT on August 21, 1998. Dispute resolution and corrective action request suspended on September 11, 1998. Negotiations scheduled October 7, 1998 through December 4, 1998. Extended through December 11, 1998.

**Milestone M-32-00, "Complete Identified Dangerous Waste Tank Corrective Actions"**

Status:

- Contracts in place for design evaluation of 3 DCRTs, 8 catch tanks, and 28 DSTs and for examination of 3 DCRTs and 8 catch tanks.
- Examination of 244-S DCRT is complete.
- UT examination of tank AN-105 has started.

Planned Activities:

- Complete 244-S DCRT assessment by December 1998.
- 244-A DCRT will be the next DCRT examined.
- Complete four DST ultrasonic test examinations by July 31, 1999.
- Complete other DST ancillary equipment assessments by FY 1999 (DCRTs, catch tanks, 204-AR Unloading Station, A350 Lift Station).

**Milestone M-40-00, "Mitigate/Resolve Tank Safety Issues for High Priority Watchlist Tanks"**

Status:

- Work on M-40-12 "Resolve Nuclear Criticality Safety Issue" is on schedule (9/99).

Issues:

- M-40-07 dispute extended to December 15, 1998 at IAMIT level.

Planned Activities:

- Finalize and issue Organic Solvent Safety document.
- Submit organic complexant issue resolution documentation to Ecology for M-40-00.
- Remove organic complexant tanks from the Watchlist.
- Continue to refine the analysis tool and framework for DST and SST safety issue resolution.

**Milestone M-41-00, "Complete Single Shell Tank Interim Stabilization"**

Status:

- Single-shell tanks 241-T-104, 241-T-110, 241-SX-104, and 241-SX-106 are being interim stabilized.
- Total gallons of liquid waste pumped, as of June 1, 1998: tank T-104 pumped 22,911 gallons, tank T-110 pumped 18,083 gallons, tank SX-104 pumped 41,996 gallons, and tank SX-106 pumped 12,370 gallons.
- Engineering and Field preparation work in progress to support Tanks S-102, S-103, and S-106 pump starts.
- In order to allow timely interim stabilization of the remaining 29 single-shell tanks, RL approved co-mingling of waste. To prevent potential impacts to Phase I Privatization several limiting conditions were included.

- Technical Team includes DOE, Ecology, and PHMC management and staff, recommends new sequence and target schedule on October 28, 1998.

Issues:

- DOE detail evaluation and validation of the Project Plan Rev. 3 basis of estimate review, RL intended to perform in parallel with its development, placed on hold pending Contractor completion. Forecast dates for Contractor completion of basis of estimate documentation and the Project Plan Rev. 3 are December 15, 1998 and January 15, 1999, respectively.

Planned Activities:

- Finalize negotiations with the State of Washington.
- Perform hydro test of existing lines identified to support for by-pass of the 244-S DCRT. Hydro test start date reforecast from October 1998 to December 1998.
- Prepare tanks S-102, S-103, and S-106 for FY 1999 pump starts.
- Validate detail basis of estimate documentation and establish a life-cycle cost, schedule, and technical scope baseline for the Single-Shell Tank Interim Stabilization Project.
- Determine method for retrieval of organic layer in tank 241-C-103.

**Milestone M-43-00, "Tank Farm Upgrades"**

- M-43-11, "Provide the W-314 Project Construction Schedule to Ecology" (9/30/98)

Status:

- Submitted letter to WDOE transmitting schedule on August 20, 1998.
- Submitted letter to WDOE notifying completion of M-43-12 on August 6, 1998, due on September 30, 1999.
- Completed the design of AZ Tank Farm Upgrades in September 1998.

Issues:

- The project is currently re-baselining all its Phase 1 activities due to the new BNFL milestones, changes to the project 200 East package, and to capture tank farm resource availability issues. This activity is scheduled to be completed in early January 1999.

Planned Activities:

- Complete re-baseline report by January 1999.
- Complete design of the Master Pump Shutdown Package by December 1999.
- Continue conceptual design activities for the new "200E Waste Transfer System."
- Continue construction activities on the AN Farm Upgrades package.

**Milestone M-44-00A, "Issue Tank Characterization Reports (TCRs) Based on Process Knowledge, Prior Characterization Data, and Validated Empirical Data Acquired After May 1989 for 177 Hanford High Level Waste Tanks."**

Status:

- Issued Waste Information Requirements Document (WIRD) quarterly report for the period of July 1, 1998 to September 30, 1998.
- Obtained core samples from tanks AZ-102, SY-101, and TX-113. Obtained grab samples from tanks S-102, S-106, and U-105. Sampling status as of November 29, 1998 is as follows:

	Tanks Scheduled/Completed	Samples Scheduled/Completed	FY 1999 Commitment
Auger	0/0	0/0	0
Push	1/0	3/0	21
Rotary	1/1	2/1	
Vapor	0/0	0/0	0
Grab	3/3	3/3	23.8

- Laboratory Analytical Reports (LARs) were completed and accessible on the Tank Characterization Database for the following tanks: S-111, AN-105, S-102, SX-105, TX-118, and U-109.
- Plan to deliver 7 new and 10 revised TCRs for FY 1999.

Privatization:

- PAS 1 Casks were certified for use on September 18, 1998. These casks will be used to transport large sample volumes to BNFL.
- The first shipment of AN-102 samples was staged at 222-S and relinquished to BNFL on 10/5/98 and a second shipment was made on October 27, 1998.

Sampling:

- New RMCS sampler design being implemented that will enhance/increase sample recovery.
- Use of new sampler design will begin in second quarter FY 1999.

Partnering Team Meetings:

- The Partnering Team is continuing to meet. The team is composed of new members from DOE and the PHMC.
- The goals of the Partnering Team are to address and develop solutions to potential problem areas in a timely fashion and maintain an open dialog between DOE, Ecology, and the PHMC.

- The next Partnering Team Meeting will be held in January 1999.

Issues:

- Lack of laboratory capability to perform particle size and viscosity testing is an issue affecting completion of laboratory work support TCRs and SY-101. Particle size analysis became available 12/1/98 and viscosity analysis is scheduled to be online January 1, 1999. Discussions are underway with various potential labs to perform this analysis in the interim.
- Sampling is behind schedule due to problems working with authorization basis for 101-SY, weather delays, and TX-113 contamination issue.

Planned Activities:

- M-44-13C: Submit Draft Waste Information Requirements Document (WIRD) to Ecology for FY 2000; due date June 15, 1999.
- M-44-14C: Submit Final Waste Information Documents (WIRD) for FY 2000 to Ecology; due date August 23, 1999.
- M-44-15C: Issue Characterization Deliverables Consistent with Waste Information Requirements Document (WIRD) developed for FY 1999; due date September 20, 1999.
- Issue 17 Tank Characterization Reports; due date September 20, 1999.
- M-44-16C: Complete input of Characterization data for HLW tanks for which sampling and analysis were completed per the FY 1999 Waste Information Requirements Document (WIRD) into electronic database. Provide offsite access to the database to EPA and Ecology; due date September 30, 1999.

**M-45-00, "Complete Closure of All Single-Shell Tank Farms"**

Status:

- M-45-02D: SST Retrieval Sequence
  - Update the Tank Waste Remediation System Operations and Utilization Plan.
- M-45-03A: C-106 Sluicing
  - Status.
- M-45-09D: Leak Monitoring/Detection and Mitigation
  - Work initiated for FY 1999 update of the Annual Progress Report on Leak Monitoring/Detection and Mitigation.

Issues:

- Path forward on C-106 sluicing.

Planned Activities:

- Continue movement of waste from C-106 to AY-102 by mid-November.
- Review of the FY 1999 MYWP in December.

**Milestone M-46-00, "Double-Shell Tank Space Evaluation"**

**Milestone M-50-00, "Complete Pretreatment Processing of Hanford Tank Wastes"**

**Milestone M-51-00, "Complete Vitrification of Hanford High Level Tank Wastes"**

**Milestone M-60-00, "Complete Vitrification of Hanford Low Level Tank Wastes"**

**Milestone M-61-00, "Complete Pretreatment and Immobilization of Hanford Low Activity Tank Wastes"**

**Milestone M-90-00, "Complete acquisition of new facilities, modifications of existing facilities, and/or modifications of planned facilities, as necessary to conduct interim storage of Immobilized High Level Waste and storage/disposal of Immobilized Low Activity Tank Waste"**

Status:

- M-90-01, Submit Interim Storage and Disposal ILAW and Interim Storage IHLW PMPs to Ecology" (12/97)
  - Project Management Plans were completed and delivered to Ecology in December 1997.
  - Ecology and DOE have agreed to update the PMP following the rebaselining to the privatization contract.
  - Revised PMPs are scheduled for September 1999.
- M-90-05T, Submit final ILAW disposal facility Performance Assessment to Ecology for review (12/01)
  - Performance Assessment has been transmitted to DOE-HQ and Ecology (6/98).
- M-90-07T, Complete ILAW disposal facility conceptual design (6/00)
  - Project W-520 90% conceptual design is complete.
  - Conceptual design effort is on hold pending completion of alternative analysis.
- M-90-12, Submit revised canister storage facility Part A (06/99)
  - NOI for Project W-464 prepared.
  - NOI transmittal to Ecology on hold pending completion of IHLW storage alternatives analysis, TPA negotiations for privatization, and need date for starting permit process.

**M-20-00, Submit Part B Permit Applications**

- M-20-56, Submit canister storage facility Part B (12/00)
  - On hold pending completion of IHLW alternatives analysis, TPA negotiations for TWRS privatization, and need date for permits.
- M-20-57, Submit interim ILAW facility Part B permit application to Ecology (12/2000)
  - On hold pending completion of ILAW alternatives analysis, TPA negotiations for TWRS privatization, and need date for permits.

**Issues:**

- Modification of Project W-465 scope from storage to disposal has not been resolved.
- DOE will be requesting sealed source determination for IHLW canisters and ILAW containers from DOH.
- Revisions to the privatization contract have changed the need dates for Projects W-464, W-465, and W-520; dates are no longer consistent with TPA M-90 and M-20 milestone dates.

**Planned Activities:**

- Complete ILAW and IHLW alternatives analyses with contractor recommendations for Projects W-464, W-465, and W-520 due to DOE in March 1999.
- Submit M-90 and M-20 Change Request for W-465 scope change to Ecology for consideration (depending on recommended alternatives).
- Rebaseline ILAW and IHLW plans in Multi-Year Program Plan.
- DOE-HQ review of ILAW Performance Assessment scheduled for January 1999.
- Update ILAW and IHLW Project Plans and submit to Ecology.

**Other**

- Permitting

**Clean Air Act**

- Non-radioactive air emissions notice of construction for using a portable exhauster for saltwell pumping of single-shell tanks was approved by WDOE, October 1998.
- Radioactive notice of construction for saltwell pumping of single-shell tanks was approved by WDOH, December 1998.
- C-106 sluicing efforts have been temporarily halted due to exceeding the VOC limits in the notice of construction and worker health and safety issues. Efforts to resolve all issues are in progress.

**Resource Conservation and Recovery Act Activities**

- Ecology needs to identify a point-of-contact for TWRS RCRA permit applications.
- Double-Shell Tank RCRA Part B Permit Application.

- Discussions are needed with the new Ecology TWRS Program and Permitting representatives regarding revision of the Part B permit schedule in response to the one-year extension granted by Ecology.
  - Eight chapters completed (Chapters 1, 5, 7, 8, 9, 10, 12, and 13).
  - Two chapters (6 and 11) and the recent revision to the DST Waste Analysis Plan (WAP) are with Ecology for review.
  - Five chapters are outstanding (Chapters 2, 3, 4, 14, and 15).
- 
- Final Safety Analysis Report (FSAR)
    - Final FSAR is currently under Tier II review by TWRS
    - Approval authority was delegated from DOE-HQ to RL
    - Approval planned in FY 1998
    - Transition from TWRS BIO to FSAR will commence in FY 1999.
- 
- Vadose Zone  
Status:
    - TPA negotiations between DOE and Ecology for RCRA Corrective Actions for the SST WMAs that have impacted groundwater are ongoing. Negotiations were to conclude on December 4, 1998; however, the parties have agreed to extend the negotiations one week to December 11, 1998.
    - Continued data collection and analysis for existing boreholes under the spectral gamma logging program.
- 
- Issues:
- Characterization activities for the SST WMAs are on hold pending an agreement with Ecology.
- 
- Planned Activities:
- Plan and conduct near term interim measure activities for SST WMAs.
  - Agree on technical framework for vadose zone characterization efforts and begin preparation of work plans.
- 
- Public Involvement
    - Health Safety and Waste Management Committee
      - January 13, 1999, Richland
      - February 17, 1999, Richland
    - Hanford Advisory Board
      - February 11-12, 1999, Tri-Cities
      - April 8-9, 1999, Kennewick (tentative)



from J. Thompson  
M-44-00 Supplement

### Status of the Information for Privatization Phase I Tanks

The data for the tanks which have been completed are now available in the Tank Characterization Data Base (TCD).

<u>Tank</u>	<u>Completion Date</u>	<u>Scheduled Completion Date</u>	<u>Data Quality Objectives (DQO) Applied</u>
AN-102	9/3/98		Low Activity Waste (LAW)
AN-103	10/21/98		LAW
AN-104	10/7/98		LAW
AN-105	10/29/98		LAW
AN-107		12/16/98	LAW
AW-101		12/31/98	LAW
AZ-102		4/10/99	LAW and High Level Waste (HLW)
C-104		9/30/99	HLW
SY-101		9/30/99	LAW & Retrieval

Characterization is scheduled to sample and analyze three tanks in FY-99 for Privatization. These tanks are AZ-101, C-104, and SY-101.

Handout from Mark Ramsay  
M-46-00

TWRS TPA Project Managers' Meeting 12/10/98

**Received Department of Ecology Letter Re: "Ecology's Response to the U.S. Department of Energy (USDOE) Recommendations on New Tanks Pursuant to M-46-01E", dated November 30, 1998**

**The letter effectively renders TPA milestone M-46-01E incomplete.**

**RL is actively attempting to setup meeting to discuss the contents of the letter.**

~~TPA milestone change process must be initiated.~~ *delete is unnecessary*

**RL response to the Ecology letter will be issued next week.**

**Plan:**

**Engage in appropriate discussions to address meaningful cost effective path forward for waste processing, in light of limited DST space.**

**Tentatively, by end of March 1999, issue revision to OWVP document.**

from Peter Furlong

**M-50, 51, 50, 61-00, Treatment and Immobilization of Hanford Tank Waste**

BNFL continues to work on deliverables. The series of near term deliverables include:

Item No	Deliverable Description	Part B-1 Due Date after ATP
B-1-1	Project Management Plan	60 days
B-1-2	Integrated Master Plan	90 days & 120 Days
B-1-3	Initial Cost Documentation Package	120
B-1-6	Development Requirements Document	90 days
B-1-9	Engineering and Design Standard Document	90 days
B-1-10	Functional Specification	90 days
B-1-13	Facility Design and Operations Philosophy	90 days
B-1-18A	Engineering Execution Plan	90 days
B-1-20	Systems Analysis and Optimization Studies	120 days
B-1-33	Design Safety Features Documentation	60 days
B-1-39	Draft Risk Assessment Work Plan	120 days
B-1-51	Business and Financing Schedule	90 days
B-1-51	Project Document to Support Financing	270 days
B-1-53	Project Company Documentation	270 days
B-1-55	Project Facility Pro-Forma	120 - 180 days
B-1-60	Estimate of Termination Liability	120 days
B-1-70	Interface Control Documents - Revision	180 days

Comments on the Project Management Plan have been provided to BNFL.

Reviews of the 90 day deliverable are on-going. Comments will be provided to BNFL by Dec 24, 98.



50007



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

November 30, 1998

Mr. George Sanders  
U.S. Department of Energy  
P.O. Box 550, MSIN: A5-15  
Richland, WA 99352

Dear Mr. Sanders:

Re: Ecology's Response to the U.S. Department of Energy (USDOE) Recommendations on New Tanks Pursuant to M-46-01E

The Washington State Department of Ecology (Ecology) has completed its review of the latest version of the *Operational Waste Volume Projection (OWVP)*, *HNF-SD-WM-ER-029, Rev. 24*. This projection brings new urgency to the decision on building new tank space capacity at Hanford. Under any projection that includes single shell tank (SST) waste retrieval, new tank capacity is required within the time frame of the projection, with additional capacity likely needed beyond the projected time frame.

The OWVP itself has serious shortcomings in the assumptions used for the projections, in that none of the scenarios used accurately reflect the actual site planning or the requirements of the Hanford Federal Facility Agreement and Consent Order (Consent Order). Ecology understands that the major impacts to the waste volume projection were undergoing major revisions during the creation of this projection. These major impacts include treatment capacity and timing, SST interim stabilization liquid volume and timing, and C-106 waste retrieval volume and timing. A new analysis needs to be conducted and should reflect site planning, Consent Order requirements, retrieval of C-106 in late 1998/early 1999 and subsequent SST waste retrieval in compliance with the M-45 milestones, interim stabilization liquids of up to 7 million gallons complete in 2004, and treatment capacity available in 2006.

Current projections show that available tank space is exceeded in the 2004 to 2006 time frame. With no firm commitment to date from USDOE to obtain tank waste treatment capacity, even these projections may underestimate the need for new tank space. Given the 6-8 years required for the new double shell tank capacity to become available, a decision must be made almost immediately to build new tank space in order for the Hanford site to fulfill its mission of waste retrieval and treatment.

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DEC 01 1998  
DOE-RL/RLSC

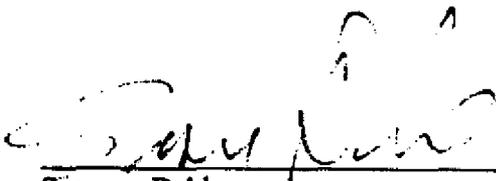
Mr. George Sanders  
November 30, 1998  
Page 2

As currently written, the OWVP would require USDOE to begin the process of acquiring new tank capacity. Since this action is a major decision for the Tank Waste Remediation System (TWRS) program, we suggest that the OWVP be re-calculated using the latest information from the various elements of the program, and be resubmitted to Ecology by January 31, 1999. Ecology and USDOE can then review the new projection, which will be more accurate and meaningful, and consider the need for new tanks by March 31, 1999. If the data continue to show the need for new tank space for Hanford to fulfill its TWRS mission, creation of new milestones for tank construction will occur at that time, in accordance with milestone M-46-01E.

If this is acceptable to you, please respond in writing to us no later than December 16, 1998.

Sincerely,

  
\_\_\_\_\_  
Tony Valero  
TWRS Storage Project Manager  
Nuclear Waste Program

  
\_\_\_\_\_  
Suzanne Dahl  
TWRS Disposal Project Manager  
Nuclear Waste Program

TV:SD:sb

cc: Doug Sherwood, EPA  
Maureen Hunemuller, USDOE  
Jackson Kinzer, USDOE  
Ken Lang, USDOE  
Brad Erlandson, LMHC  
Owen Kramer, LMHC  
Larry Arnold, FDH  
Tony Umek, FDH  
Marilyn Reeves, HAB  
J.R. Wilkinson, CTUIR  
Donna Powaukee, NPT  
Russell Jim, YIN  
Mary Lou Blazek, ODOE  
Administrative Record: TWRS - OWVP