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Office of River Protection

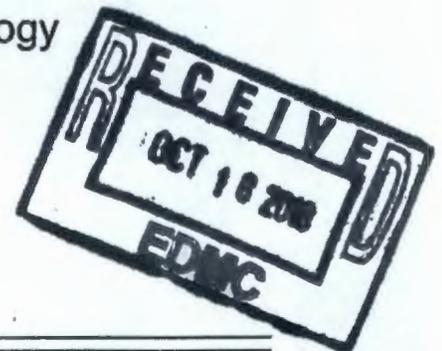
Tri-Party Agreement

Quarterly Milestone Review



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

July 27, 1999



Agenda

Office of River Protection Tri-Party Agreement Quarterly Milestone Review July 27, 1999

Topic	Leads	Time
FY 1999 Cost and Schedule Performance Overview	Jon Peschong	9:00
FY 1999 ORP Tri-Party Agreement Milestones Status/Issues/Planned Activities	Suzanne Dahl/Hector Rodriguez	9:15
<ul style="list-style-type: none"> • M-32-00, Complete Identified Dangerous Waste Tank Corrective Actions 	Dana Bryson/Mark Ramsey/Tony Valero	9:25
<ul style="list-style-type: none"> • Interim Stabilization 	Dana Bryson/Lina Pacheco/Casey Ruud	9:35
<ul style="list-style-type: none"> • M-43-00, Tank Farm Upgrades 	Dana Bryson/Jim Navarro/Dick Heggen	9:45
<ul style="list-style-type: none"> • M-46-00, Double-Shell Tank Space Evaluation 	Dana Bryson/Mark Ramsay/Scott McKinney	10:10
<ul style="list-style-type: none"> • M-40-00, Safety Issue Resolution 	Joe Voice/Craig Groendyke/Tony Valero	10:25
<ul style="list-style-type: none"> • M-44-00, Tank Waste Characterization 	Jim Poppiti/Jim Thompson/Dave Dougherty	10:40
<ul style="list-style-type: none"> • M-45-00, Single-Shell Tank Closure 	Jim Poppiti/Bob Lober/Scott McKinney	10:50
<ul style="list-style-type: none"> • M-50, 51, 60, 61-00, Treatment and Immobilization of Hanford Tank Waste 	Bill Taylor/Neil Brown/John Grantham	11:10
<ul style="list-style-type: none"> • M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW 	Bill Taylor/Phil LaMont/Bob Jullan	11:25
Other <ul style="list-style-type: none"> • Vadose Zone 	Jim Poppiti/Rob Yasek/ Roger Stanley	11:40



COST/SCHEDULE PERFORMANCE - ALL FUND TYPES

PHMC ONLY

(Dollars in Millions)

PBS / TITLE		FISCAL YEAR TO DATE						ANNUAL DATA			
		BUDGET COST		ACTUAL COST	VARIANCE			HANDI DAC	FYSF	ANTICIP'D FY99 FUNDING (AWA #5)	
		WORK SCHED	WORK PERF	WORK PERF	SCHED	SCHED % ¹	COST				COST % ¹
EXPENSE/CENRTC											
TW01	CHARACTERIZATION	24.2	18.5	19.2	(5.7)	(23.5) %	(0.7)	(3.9) %	41.3	34.3	34.8
TW02	SAFETY	10.5	9.0	13.0	(1.5)	(13.8) %	(4.0)	(44.0) %	17.3	29.9	29.0
TW03	OPER'NS & MAINTENANCE	72.8	68.9	72.0	(3.7)	(5.2) %	(3.1)	(4.5) %	129.1	131.4	130.2
	W-314 - TF Rest'n - LI	6.8	5.9	6.3	(0.9)	(13.5) %	(0.4)	(6.5) %	11.5	12.1	12.9
	W-430 - TF Vent Ugrds - LI	0.0	0.0	0.0	0.0	0.0 %	0.0	0.0 %	0.0	0.0	0.0
	TOTAL OPS	79.4	74.8	78.3	(4.6)	(5.9) %	(3.5)	(4.6) %	140.6	143.5	143.1
TW04	RETRIEVAL PROJECT	29.8	24.0	26.1	(5.8)	(19.3) %	(2.1)	(6.6) %	50.4	49.6	49.6
	W-311 - Init Tank Ret'vt-LI	2.0	2.0	3.0	0.0	(0.8) %	(1.0)	(51.2) %	4.1	5.6	7.5
	TOTAL RETRIEVAL	31.8	26.0	29.1	(5.8)	(18.1) %	(3.1)	(11.8) %	54.5	55.2	57.1
TW05	PROCESS WASTE SUPPORT	0.5	0.5	0.4	0.0	(13.3) %	0.1	17.1 %	0.7	0.7	0.7
TW08	PRIVATZN INFRASTRUCTUR	2.1	1.9	1.1	(0.2)	(8.6) %	0.8	44.6 %	3.9	2.8	2.8
	W-519 - Priv Infra Spt -LI	1.1	1.0	0.9	(0.1)	(14.5) %	0.1	3.3 %	8.7	4.4	8.7
	TOTAL INFRASTRUCTURE	3.2	2.9	2.0	(0.3)	(10.6) %	0.9	30.8 %	12.6	7.0	11.3
TW09	STORAGE & DISPOSAL	2.9	2.6	2.0	(0.3)	(9.9) %	0.8	20.8 %	4.5	4.5	4.5
TW10	MANAGEMENT SYSTEMS	21.0	20.6	12.7	(0.4)	(1.8) %	7.9	38.5 %	37.0	27.3	29.9
	HTI (EM-50)	4.1	3.0	1.8	(1.1)	(28.7) %	1.2	40.2 %	7.2	1.8	1.8
	DOH PASSBACK	0.0	0.0	0.0	0.0	0.0 %	0.0	0.0 %	0.0	(4.7)	(4.7)
	REPROGRAM'G LOSS	0.0	0.0	0.0	0.0	0.0 %	0.0	0.0 %	0.0	0.0	(3.0)
	TOTAL EXPENSE/CENRTC	167.7	149.0	148.3	(18.7)	(11.1) %	0.7	0.5 %	291.4	277.4	275.4
	TOTAL LINE ITEM	9.9	8.9	10.2	(1.0)	(11.1) %	(1.3)	(15.5) %	24.3	22.1	29.1
	TOTAL TWRS	177.6	157.9	158.5	(19.7)	(11.1) %	(0.6)	(0.4) %	315.7	299.5	304.5

¹ Schedule and Cost percentages calculated based on \$ in thousands.

**FY 1999 Cost/Schedule Variance Summary
Through April 1999**

PBS	Description and Cause	Impact/Corrective Action
<p>TW01 Tank Waste Characterization</p>	<p>Cost Variance (-3.9%): Within the 5.0% threshold.</p> <p>Schedule Variance (-23.5%): The unfavorable schedule variance is due to delays in planned core sampling activities caused by inclement weather (wind) and truck equipment problems.</p>	<p>Corrective Action: None required.</p> <p>Corrective Action: Schedule recovery will be accomplished with targeted use of overtime. BCR signed in May to revise sampling schedule consistent with recent funding reductions.</p>
<p>TW02 Tank Safety Issue Resolution</p>	<p>Cost Variance (-44.0%): The unfavorable cost variance is due to 101-SY Level Rise work being initiated prior to approval of Baseline Change Requests.</p> <p>Schedule Variance (-13.8%): The unfavorable schedule variance is due to: 1) incorporation of additional data review workshops to revise the flammable gas accident analysis model; and, 2) the Retained Gas Sampling Final Results Report is behind schedule due to the need for additional information to complete the report.</p>	<p>Corrective Action: Baseline Change Requests approved in April and June.</p> <p>Corrective Action: 1) A revised MOU is being prepared. The project will be rebaselined once the MOU is approved. 2) The RGS final results report is anticipated to be complete in August 1999.</p>
<p>TW03 Tank Farm Operations</p>	<p>Cost Variance (-4.6%): Within the 5.0% threshold.</p> <p>Schedule Variance (-5.9%): Within the 7.5% threshold.</p>	<p>Corrective Action: Approval of Interim Stabilization Baseline Change Request consistent with the Consent Decree will eliminate most of the variances. (The BCR was approved in May.)</p>
<p>TW04 Retrieval Project</p>	<p>Cost Variance (-11.8%): The unfavorable cost variance is due to:</p> <ol style="list-style-type: none"> 1. HTI cost overruns. 2. General equipment repair funding is being consumed earlier than planned. 3. Costs for prior year W-211 equipment procurement are being posted as equipment is delivered. <p>Schedule Variance (-18.1%): The unfavorable schedule variance is due to:</p> <ol style="list-style-type: none"> 1. Closeout of W-151 activities. 2. Retrieval engineering work started late due to unavailability of resources and procedural problems encountered in the 222-S Lab. 3. Vadose Zone Characterization plan has been delayed pending TPA negotiations. 	<p>Corrective Action:</p> <ol style="list-style-type: none"> 1. Resolution of HTI funding shortfalls is in process. 2. None required. 3. An unfavorable cost variance will exist for this activity. <p>Corrective Action:</p> <ol style="list-style-type: none"> 1. Change requests signed in April. 2. None required. Schedule recovery expected. 3. Change request signed in June.

PBS	Description and Cause	Impact/Corrective Action
<p>TW05 Process Waste Support</p>	<p>Cost Variance (+17.1%): The favorable cost variance is due to FY 1999 ICD preparations being less than planned due to joint effort with BNFL and costs to disposition waste treatability residues were less than planned.</p> <p>Schedule Variance (-13.3%): The unfavorable schedule variance is due the FY 1999 ICD updates have starting slower than planned.</p>	<p>Corrective Action: Variance will be used to offset overruns in Interface Implementation Plans.</p> <p>Corrective Action: None required.</p>
<p>TW08 Privatization Infrastructure</p>	<p>Cost Variance (+30.8%): The favorable cost variance results from planned activities requiring less resources than planned.</p> <p>Schedule Variance (-10.6%): W-519 ground preparation work deferred.</p>	<p>Corrective Action: None required.</p> <p>Corrective Action: BCR approved in April.</p>
<p>TW09 Immobilized Tank Waste</p>	<p>Cost Variance (+20.8%): The favorable cost variance is due to rescoping of project tasks and utilization of less project resources than planned. In addition, the ILAW/IHLW AGAs required more analysis and evaluation than planned</p> <p>Schedule Variance (-9.9%): The unfavorable schedule variance is due to: 1) Project W-464 "IHLW Interim Storage Facility" Project Management Plan delayed due to completion of the AGA; 2) delay of Project W-465 "ILAW Storage Facility" revalidation to June; and, 3) waste form testing is being schedule awaiting EM-50 screen of glass composition.</p>	<p>Corrective Action: AGA expenses will be covered with cost savings realized through effective management of other activities.</p> <p>Corrective Action: Work is forecast to be completed on schedule.</p>
<p>TW10 Management Systems</p>	<p>Cost Variance (+38.5%): Site indirect passback credits and FY 1998 award fee over accrual for all of ORP are being held in this account.</p> <p>Schedule Variance (-1.8%): Within the 7.5% threshold.</p>	<p>Corrective Action: None required.</p> <p>Corrective Action: None required.</p>

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		<i>under discussion/disagreement</i>				X
M-32-08	Complete Grout Interim Status Tank Actions.	TBD		<i>approved deletion</i>				X
M-32-08-T01	Complete and Submit Integrity Assessment Report For Grout Interim Status Tank System. Complete Activities Required to Correct Any Deficiencies Described in The Report Related to Tank System Compliance.	TBD		"		"		X
M-40-12	Resolve Nuclear Criticality Safety Issue.	9/30/99			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.	9/30/99					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 WIRD to Ecology for FY 2000.	6/30/99	X					
M-44-14C	Submit Final WIRD for FY 2000 to Ecology.	6/31/99			X			
M-44-15C	Issue Characterization Deliverables Consistent with WIRD Developed for FY 1999.	9/30/99			X			
M-44-16C	Complete Input of Characterization Information for HLW Tanks per WIRD Sampling into Electronic Database. Offsite Access to be Available to EPA and Ecology.	9/30/99			X			
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 Phase II Tank Waste Retrieval.	5/31/99					X	
M-46-00F	Double Shell 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 Phase II 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			7	0	7	1	6	4

<p>Change Request M-41-98-01</p>	<p>Submitted to Ecology July 2, 1998. Disapproved by Ecology on July 16, 1998. DOE invoked dispute on July 2, 1998; elevated to IAMIT on August 20, 1998. Dispute extended at Director level pending outcome of M-41-22 and M-41-23 discussions.</p> <p>The M-41 Tri-Party Agreement change package and the consent decree are out for public comment from March 3 through May 3, 1999. Materials have been sent to the Public Information Repositories and have been posted on the Internet. The public comment period will be extended to approximately May 17, 1999 on this change request to be inclusive of a public meeting in Hood River, OR, currently scheduled for May 12, 1999. The parties have agreed that work will proceed as proposed in the Consent Decree.</p> <p>Approximately five sets of comments were taken at the Hood River meeting. The change request will be finalized after the comments are dispositioned. Responses to public comments are still pending as of 6/30/99.</p>
<p>Change Request M-45-98-03 SST Corrective Action Groundwater/Vadose Zone</p>	<p>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. Dispute reinstated December 18, 1998 at IAMIT level. Dispute resolved January 8, 1999. Change package in public comment February 16, 1999 through April 1, 1999.</p> <p>The public comment period will be extended to approximately May 17, 1999 on this change request to be inclusive of a public meeting in Hood River, OR, currently scheduled for May 12, 1999. The parties have agreed that work will proceed as proposed in the negotiated milestones.</p> <p>Approximately five sets of comments were taken at the Hood River meeting. The change request will be finalized after the comments are dispositioned. Responses to public comments are still pending as of 6/30/99.</p>
<p>M-40-07 Dispute</p>	<p>The dispute concerning completion of Interim Milestone M-40-07 (C-103 Ventilation System) was invoked on April 9, 1997, and was extended at the IAMIT level through January 26, 1999. The dispute will be resolved when the Interim Stabilization Consent Decree is finalized.</p>
<p>M-32-99-01 Complete Grout Interim Status Tank Actions</p>	<p>Dispute Resolution process was initiated by DOE on July 12, 1999. The change request was subsequently signed by Ecology on July 14, 1999. The change request deleted an interim milestone and target date from the M-32-00 series.</p>

**M-32-99-02 244-AR Vault
Interim Status Tank Actions**

Dispute Resolution process was initiated by DOE on July 12, 1999. The change request would delete an Interim milestone and target date from the M-32-00 series. Project managers from DOE and Ecology are currently working to resolve issues.

**M-45-99-01 Add Interim
Milestone M-45-03B "Complete
Sluicing Retrieval of Tank 241-
C-106 Sludge"**

A draft change request was sent to Ecology on June 3, 1999. DOE has not received formal comments on the change request from Ecology as of July 16, 1999.

Interim Stabilization Consent Decree

Status June 1, 1998 to April 11, 1999:

- Single-Shell Tanks (SSTs) 241-T-104, 241-T-110, 241-SX-104, 241-SX-106 and 241-S-102 are being Interim stabilized.
- Approximately 190,000 gallons of pumpable liquid waste removed, 3.1% of the original 6.2 M total gallons: T-104 pumped 30,244 gallons, T-110 pumped 25,928 gallons, SX-104 pumped 87,530, SX-106 pumped 33,203 gallons, SX-102 pumped 13,092.
- S-102 pumping commenced March 18, 1999 and initial pumping criteria achieved March 25, 1999. 244-S by-pass has been complete for the S Tank Farm.
- Engineering and Field preparation work in progress to support Tanks S-103, S-106, and U-103 pump starts.

Potential Issue:

- The following key ORP activities are scheduled to occur within the August - October time frame:
 1. August - Cross-Site Transfer (2nd planned cross-site transfer in FY99), originating at DST SY-102,
 2. September - SY-101 Transfer to SY-102, and
 3. September/October - Initial U Farm Tank Pump Start.

Due to current procedural requirements, the above activities must be performed sequentially. If the above individual schedules are not maintained, other sequential schedules may be impacted.

Planned Activities:

- April 27, 1999, initial pump start for Tank S-106 is forecast for April 16, 1999.
- Prepare S-102 and S-103 for FY99 pumping starts.
- Prepare U-Farm for an initial U-Farm tank start by October 1999 start.

- Complete study that would support by-passing the U-DCRT.
- Evaluate potential procedural changes necessary to allow continual pumping of tanks during DCRT or cross-site transfers.
- Charter an integrated process improvement team for the Single-Shell Tank Interim Stabilization Project.
- Determine method for retrieval of organic layer in Tank 241-C-103.

Milestone M-32-00, "Complete Identified Dangerous Waste Tank Corrective Actions" Completed 6/94

DST INTERIM MILESTONE M-32-04 HAS BEEN COMPLETED. DST ASSESSMENT ACTIVITIES LISTED BELOW WERE NOT INCORPORATED INTO THE MILESTONE M-32-00

DST Assessment Status:

- DST UT examination progress:

AN-105	Complete
AY-102	Complete
AN-106	Complete
AZ-101	Complete
241-S-304 Catch Tank	Complete

- Design evaluation progress:

AW Tank Farm	complete
AN Tank Farm	95% complete
AY Tank Farm	90% complete
AZ Tank Farm	90% complete
AP Tank Farm	80% complete
SY Tank Farm	55% complete
244-BX DCRT	Complete
244-TX DCRT	Complete
244-A DCRT	90% complete
241-A-350 Lift Station	80% complete
204-AR Waste Unloading Facility	90% complete
241-S-304 Catch Tank	Complete
241-UX-302A Catch Tank	Complete

*244 AR Facility
Grout Facility (approved)*

241-TX-302C Catch Tank	Complete
241-U-301B Catch Tank	Complete
241-AZ-151 Catch Tank	Complete
241-ER-311 Catch Tank	95% complete
241-AX-152 Catch Tank	95% complete
241-EW-151 Catch Tank	85% complete

DST Assessment Planned Activities:

- Evaluate 244-BX-started
- Evaluate 241-TX-302C Catch Tank
- Evaluate 241-Ux-302A Catch Tank
- Evaluate 241-Az-151 Catch Tank
- Evaluate 241-Ax-152 Catch Tank
- Evaluate 204-AR Waste Unloading Facility
- Evaluate 244-A DCRT
- Evaluate 244-TX DSCR

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).
- Provided briefing to Ecology on current status of SY-101.

Issues:

- M-40-07 dispute to be resolved with the approval of the Interim Stabilization Consent Decree.
- Level rise in SY-101 has a potential to impact M-40-00 for that tank.

Planned Activities:

- Continue to implement SY-101 Level Rise Remediation Project Plan.
- Submit organic solvent documentation to DOE-HQ to resolve safety issue.

SCOPE all day session to determine future SCOPE determine future emissions in next month

basis

analyze methods log

- Continue to refine the analysis tool and framework for DST and SST safety issue resolution and removing tanks from the Watchlist.
- Prepare briefing for Ecology on resolution of nuclear criticality safety issue.

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

Planned Activities:

- Complete design of the Master Pump Shutdown Package by June 2000.
- Complete design activities for the new "200E Waste Transfer System" by September 1999.
- Continue construction activities on the AN Farm Upgrades package, complete by July 2002.
- Complete design rebaseline of Phase 2 activities by September 1999.

Milestone M-44-00A, "Complete delivery of information requirements as identified in the annually submitted Waste Information Requirements Documents (WIRD)."

Status:

- The Draft TSB-WIRD was sent to Ecology on June 10, 1999 for review and comment. The TPA Milestone M-44-13C was completed more than two weeks early, the original due date was June 30, 1999.
- Obtained one grab sample from AY-102 and one from U-102. Completed the second core samples on TX-118 and TX-113. Obtained one vapor sample from AY-102.

Sampling status as of June 27, 1999 is as follows:

	Tanks	Samples	FY99
	Scheduled/Completed	Scheduled/Complete	Commitment
Auger	0/0	0/0	0
Push	1/1	3/3	13
Rotary	4/3	7/5	
Vapor	0/0	0/0	0
Grab	10/8	10.2/8.2	16

shift from safety issues into design/optimization issues

- Completed two Laboratory Analytical Reports (LARs) for tanks U-103 and AP-107. PA TWR 6.2.4 (6 Core Sample LARs and 8 Grab Sample LARs) was completed on 6/16/99.

Status/Issues/Planned Activities

July 1999

- Plan to deliver a total of 17 new and revised Tank Characterization Reports (TCRs) for FY 1999, currently 9 TCRs (77.5%) are complete. Seven of the 9 completed TCRs have been sent to Ecology. The other 2 TCRs are being reviewed by ORP.

Privatization:

- FY 1999 activities are complete. Current actions support FY 2000 shipments.

Sampling:

- The knife edge seal sampler insert was deployed on the second core on TX-113 and on tank TX-118. Sample recovery has improved significantly (TX-118 recovery has ranged from 1.5 to 7 inches per 19 inch segment).

Partnering Team Meetings:

- A meeting is scheduled for July 13, 1999 with the Partnering Team to discuss Ecology's comments on the Draft TSB-WIRD due August 31, 1999 (M-44-14C).

Issues:

No issues to report for the month of June.

Planned Activities:

- M-44-13C: Submit Draft Waste Information Requirements Document (WIRD) to Ecology for FY 2000; Due Date 6/30/99.
- M-44-14C: Submit Final Waste Information Requirements Document (WIRD) for FY 2000 to Ecology; Due Date 8/31/99.
- M-44-15C: Issue Characterization Deliverables Consistent with Waste Information Requirements Document (WIRD) Developed for FY 1999; Due Date 9/30/99.
- 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 9/30/99.

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

Status:

- M-45-02D: SST Retrieval Sequence
 - Will meet milestone 9/30/99.

Does not meet TPA? compliant w/ 2018
Archived

*12057
200 days
for sample
analysis*

- Current Tank Waste Remediation System Operations and Utilization Plan (TWRSOUP) issued May 5. Briefing on TWRSOUP was provided to Ecology (Dahl, McKinney, Skurla, Hegan) as part of the DST waste feed delivery workshop May 7. Copy provided to Ecology on May 7, 1999.

- M-45-03A: C-106 Sluicing

Status:

- As of June 3, 1999, an estimated 4 ft of sludge has been transferred to tank AY-102 from C-106 in 8 batches.
- Batch transfer of June 1999 was successfully run for 10 hours, and transferred an estimated 9 in. of sludge.
- Peak VOC level was 75 ppm compared to the NOC limit of 500 ppm.
- Solids return was between 8% and 12%.
- RL approved the request to proceed with the 3rd campaign.
- Campaign 3 for transfer of C-106 waste is scheduled for July 21, 1999 to start retrieval of the last 2 ft of sludge.
- Thermal response in AY-102 is better than the original estimate.
- C-106 temperature is steadily declining and currently below 150 degrees F compared to 225 degrees F before the start of sluicing.

*4 1/2 ft since
now*

TPA Change Request:

- Waiting on response from Ecology on the TPA change request submitted to Ecology on June 8, 1999 to add TPA milestone M-45-036 for completion of sluicing on December 31, 1999.

Planned Activities:

- Next sluicing to transfer the 5th ft. of waste in July, 1999.
- M-45-09D: Leak Monitoring/Detection and Mitigation
 - Will meet milestone 9/30/99.
 - Efforts underway to assess and integrate risk-based leak loss analyses utilizing uncertainty into leak detection for phase 2 sequencing.

Planned Activities:

- Ecology and DOE will have follow-on meetings to discuss SST retrieval planning. Time, date, and agenda TBD as of May 13. Ecology and DOE are discussing agenda items of interest.

July 1999

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

Status:

- DST Decision Study underway and will be provided to Ecology in the April-May time frame.

Issues:

- No issues to report.

Planned Activities:

- Begin development of OWVP for Rev. 25 in April-May time frame.

end result of all milestones after 2008
very different premises
study premises: what do we need to do to not build new DSTs.
milestone states: evaluate whether or not you need new DSTs.

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"

Contract Deliverables Received or Planned to be Received May through August 1999

Item #	Contract Description	BNFL Schedule	Resubmitted
B-1-50	Financing Plan – Final	5/24/99	
B-1-52	Project Documents to Support Financing (Draft)	5/24/99	
B-1-5	Monthly Status Report	5/28/99	
B-1-41	Screening Level Risk Assessment	6/8/99	
B-1-5	Monthly Status Report	7/30/99	
B-1-19	Early Construction Procurement Study	8/24/99	
B-1-54	Draft Financial Documents	8/24/99	
B-1-57	Draft Equity Commitment Documentation	8/24/99	
B-1-11	Basis of Design Document	11/23/98	6/28/99
B-1-53	Project Company Documentation	5/24/99	
B-1-32	Quality Assurance Plan		5/27/99
B-1-70	Updated ICD group 2	6/2/99	
B-1-3	Initial Cost Documentation Package, Revised Part 2	12/15/98	6/14/99
B-1-35	Preliminary Dangerous Waste Permit Application	3/24/99	5/6/99
B-1-30	Quality Assurance Provisions Document Revision 1	2/22/99	5/20/99
B-1-49	Financing Plan (initial draft)	2/24/99	5/24/99
B-1-51	Business and Finance Schedule	11/23/98	5/24/99

Status:

- All BNFL deliverables and DOE reviews have been completed on schedule.
- Pricing/re-pricing Contract negotiations underway.
- Contract negotiations on changes resulting from System Analysis and Optimization Studies underway.

- BNFL and DOE are working to establish a revised permitting schedule.
- DOE has not concurred with the Integrated Master Plan (B-1-2). Approach to obtain concurrence defined.
- Pilot melter has been operating for more than 2 months and is achieving design throughput.
- Destructive evaluation of the M-Area melter has commenced.

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)
 - Revised PMPs based on the BNFL contract dates are scheduled for September 1999. It is assumed TPA negotiations will be consistent with BNFL contract dates.
- M-90-05T, Submit final ILAW disposal facility Performance Assessment to Ecology for review (12/01)
 - On June 18, 1999, ORP formally provided to the Low-Activity Waste Federal Review Group (LFRG) subteam on the technical rationale and program plans for obtaining glass test data that will show glass meets performance requirements. The LFRG subteam tentatively agreed to recommend to the LFRG conditional acceptance of the PA pending successful outcome of the testing. A LFRG team meeting is scheduled for Hanford on August 16-17, 1999.
- M-90-07T, Complete ILAW disposal facility conceptual design (6/00)
 - ILAW alternative analysis was completed on 1) new concrete vault facility versus 2) grout vaults plus smaller new facility.
 - Ranking was extremely close. New facility offered slightly lower life cycle cost and grout vaults offered reduced near-term capital requirements.
 - DOE has officially decided to adopt grout vault alternative (Project W-465) and pursue reductions in cost of new facility.
 - New FY99 workscope has been initiated to study a remote-handled trench concept and grout vault access.
- M-90-03, Initiate ILAW interim storage facility construction (06/01)
 - Project W-465 is tentatively planned as a FY02 start.

- M-90-11, Complete canister storage building construction (12/02)
 - IHLW alternatives study complete. DOE accepts contractor recommendation to stay with canister storage building.
 - Project W-464 is tentatively planned as a FY01 start.
- M-90-12, Submit revised canister storage facility Part A (06/99)
 - NOI for Project W-464 prepared and submitted 1/15/99.
 - The Canister Storage Building Part A was submitted on 6/28/99.

M-20-00, Submit Part B Permit Applications

- M-20-56, Submit canister storage facility Part B (12/00)
 - On hold pending completion of 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 TPA negotiations for TWRS privatization and need date for permits.

Issues:

- Modification of Project W-465 scope from storage to disposal needs to be completed. Impacts on conclusions in Tank Waste Remediation System Final EIS being evaluated.
- 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:

- Submit M-90 and M-20 Change Request for W-465 scope change to Ecology for consideration.
- Rebaseline ILAW and IHLW plans in Multi-Year Program Plan.

Clean Air Act

- The NOC revision on Project W-320 for further sluicing of tank 241-C-106 was formally sent from RL to WDOE formalizing previous agreements on April 4, 1999. This revision was approved by Ecology.

- The Notice of New Source Review Exemption Request on Project W-314 was sent on March 22, 1999. No notice has been received to proceed with a NOC so in accordance with WAC 173-400-100(5)(c) the exemption should be approved by April 23, 1999. This exemption was approved by default.
- The Notification of New Source Review Exemption for the Vadose Zone Project was sent to WDOE on May 18, 1999.

DST Part B Permitting

- 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 approved March 31, 1999
- Transition plan from TWRS BIO to FSAR submitted to DOE for review.

Vadose Zone

Status:

- **M-45-50: Complete development of a spectral gamma logging baseline for SST farms (9/29/00)**
 - The high-rate detector has been received. Currently undergoing calibration, this detector, which is on schedule to be deployed in mid-August, will be used to relog those boreholes with gamma in the initial detector.
 - The T Tank Farm Report is on schedule to be issued in September 1999.
- **M-45-51: Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 1 RFI/CMS Work Plan for Single-Shell Tank (SST) Waste Management Areas (WMAs) (8/31/99)**
 - The RFI/CMS workshop report has been issued for DOE review.

- **M-45-52: Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX (10/29/99)**
 - The first steps of planning a for the work plans have been initiated and planning and conducting DQO meetings for the WMA S-SX will be completed. A DQO summary report and site specific work plan for WMA S-SX will be prepared.
- **M-45-52-T01: Submit to Ecology for review and approval as an Agreement secondary document a Preliminary site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX (4/30/99)**
 - Comment resolution and modifications to the Draft Preliminary work plan are completed. The work plan has been revised and issued to Ecology for approval.
- **M-45-56: Complete implementation of agreed-to interim measures (TBD)**
 - Ecology and DOE will meet in late July 1999 for the specific purpose of assessing the adequacy of information and the need for the establishment of additional Agreement interim measures.
- **M-45-56-T01: Summarize results of engineering studies and recommendations on isolating water lines in or near SST WMAs, sealing abandoned wells in or near SST WMAs, and controlling surface drainage at SST WMAs and submit these results to Ecology (10/15/99)**
 - The engineering study is continuing on schedule to be completed in October 1999.
- **M-45-57: Complete upgrading of leak-tight caps on monitoring drywells around SSTs (6/30/99)**
 - LMHC Tank Farm Operations have completed field activities to upgrade borehole caps.
- **M-45-59-T01: Summarize results of Innovative Treatment Remedial Demonstration workshop, with conclusions and recommendations for test and evaluation of Interim surface barrier concepts and submit these results to Ecology (7/31/99)**
 - The workshop report was completed and is in the process of being transmitted to Ecology to meet the July 1999 milestone.

Public Involvement

- Health Safety and Waste Management Committee
 - August 4, 1999, Richland
- Hanford Advisory Board
 - September 9 & 10, 1999, Seattle

- Dollars and Sense Committee
 - August 10, 1999, Richland
- ER Committee
 - *8/12/99* August 12, 1999, Richland

Cancelled

Agenda

Office of River Protection Tri-Party Agreement Quarterly Milestone Review July 27, 1999

Topic	Leads	Time
FY 1999 Cost and Schedule Performance Overview	Jon Peschong <i>-Patty Marchese</i>	9:00
FY 1999 ORP Tri-Party Agreement Milestones Status/Issues/Planned Activities	Suzanne Dahl/Hector Rodriguez	9:15
<ul style="list-style-type: none"> • M-32-00, Complete Identified Dangerous Waste Tank Corrective Actions 	Dana Bryson/Mark Ramsey/Tony Valero	9:25
<ul style="list-style-type: none"> • Interim Stabilization 	Dana Bryson/Lina Pacheco/Casey <i>Rud</i>	9:35
<ul style="list-style-type: none"> • M-43-00, Tank Farm Upgrades 	Dana Bryson/ <u>Jim Navarro</u> /Dick Heggen	9:45
<ul style="list-style-type: none"> • M-46-00, Double-Shell Tank Space Evaluation 	Dana Bryson/ <u>Mark Ramsay</u> /Scott McKinney	10:10
<ul style="list-style-type: none"> • M-40-00, Safety Issue Resolution 	<u>Joe Voice</u> /Craig Groendyke/Tony Valero	10:25
<ul style="list-style-type: none"> • M-44-00, Tank Waste Characterization 	Jim Poppiti/Jim Thompson/Dave Dougherty	10:40
<ul style="list-style-type: none"> • M-45-00, Single-Shell Tank Closure 	Jim Poppiti/Bob Lober/Scott McKinney	10:50
<ul style="list-style-type: none"> • M-50, 51, 60, 61-00, Treatment and Immobilization of Hanford Tank Waste 	Bill Taylor/Neil Brown/John Grantham	11:10
<ul style="list-style-type: none"> • M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW 	Bill Taylor/Phil LaMont/Bob Julian	11:25
Other	Jim Poppiti/Rob Yasek/ Roger Stanley	11:40
<ul style="list-style-type: none"> • Vadose Zone 		

Project Review

**Lockheed Martin Hanford Corporation
River Protection Project**

****FINAL**
JUNE 1999**

**TOTAL RPP COST/SCHEDULE PERFORMANCE - ALL FUND TYPES
(INCLUDING ALL DIRECT FUNDED ACTIVITIES)
(Dollars in Millions)**

07/26/99

PERF-JUN(ALLFT)

PBS / TITLE	FISCAL YEAR TO DATE							ANNUAL DATA		
	BUDGET COST		ACTUAL COST	VARIANCE				HANDI/ RL BAC	JUNE FYSF	ANTICIP'D FY99 FUNDING
	WORK SCHED	WORK PERF	WORK PERF	SCHED	SCHED % ¹	COST	COST % ¹			
ALL FUND TYPES										
TW01 CHARACTERIZATION	26.1	24.3	24.3	(1.8)	(7.0) %	0.0	0.1 %	35.5	34.2	34.7
TW02 SAFETY	22.7	22.5	21.3	(0.2)	(1.0) %	1.2	5.6 %	32.1	35.0	35.0
TW03 OPER'NS & MAINT	101.1	95.5	91.2	(5.6)	(5.6) %	4.3	4.5 %	135.6	129.3	130.8
W-314 - TF Rest'n - LJ	9.6	8.5	8.6	(1.1)	(11.3) %	(0.1)	(2.0) %	11.5	12.5	12.9
W-030 - TF Vent Ugrds - LJ	0.0	0.0	0.0	0.0	0.0 %	0.0	0.0 %	0.0	0.0	0.1
TOTAL OPS	110.7	104.0	99.8	(6.7)	(6.0) %	4.2	4.0 %	147.1	141.8	143.8
TW04 RETRIEVAL PROJECT	37.1	34.1	35.6	(3.0)	(7.8) %	(1.5)	(3.6) %	50.5	50.4	50.0
W-211 - Init Tank Ret'vl-LJ	2.8	2.6	3.6	(0.2)	(8.0) %	(1.0)	(37.1) %	4.6	4.8	7.4
TOTAL RETRIEVAL	39.9	36.7	39.2	(3.2)	(7.8) %	(2.5)	(6.0) %	55.1	55.2	57.4
TW05 PROCESS WASTE SUPPORT	5.5	5.2	5.4	(0.3)	(5.7) %	(0.2)	(2.7) %	7.8	7.8	7.8
TW08 PRIVAT'ZN INFRASTRUCTUR	2.2	2.2	1.3	0.0	(0.2) %	0.9	39.6 %	3.0	2.7	2.7
W-519 - Priv Infra Spt -LJ	2.6	1.2	1.3	(1.4)	(55.6) %	(0.1)	(7.6) %	8.7	3.2	8.7
TOTAL INFRASTRUCTURE	4.8	3.4	2.6	(1.4)	(30.1) %	0.8	23.4 %	11.7	5.9	11.4
TW09 STORAGE & DISPOSAL	3.8	3.6	2.9	(0.2)	(4.6) %	0.7	20.1 %	5.3	5.1	5.3
TW10 MANAGEMENT SYSTEMS	25.8	25.4	17.2	(0.4)	(1.6) %	8.2	32.4 %	34.8	27.6	27.6
HANFORD TANK INITIATIVE(E	5.7	3.4	2.1	(2.3)	(40.1) %	1.3	38.7 %	8.3	2.2	2.2
DOH PASSBACK									0.0	(0.5)
FUNDING SHORTFALL									0.0	(1.5)
TOTAL RPP EXP/ICE	230.0	216.2	201.3	(13.8)	(6.0) %	14.9	7.1 %	312.9	294.3	294.1
TOTAL RPP LI	15.0	12.3	13.5	(2.7)	(18.5) %	(1.2)	(10.0) %	24.8	20.5	29.1
TOTAL RPP	245.0	228.5	214.8	(16.5)	(6.7) %	13.7	6.2 %	337.7	314.8	323.2

¹ Schedule and Cost percentages calculated based on \$ in thousands.

River Protection Project June 1999

Schedule Variance -\$16.5M / -6.7%

- **TW01 Waste Characterization (-\$1.8M / +7.0%)** - Within threshold.
Impacts: No impacts. Major milestones and PAs will be met on schedule.
Corrective Action: None required. Anticipate schedule recovery by year-end.
- **TW02 Safety Issue Resolution (-\$0.2M / -1.0%)** - Within threshold.
Impacts: No impacts.
Corrective Action: None required.
- **TW03 Tank Farm Operations (-\$6.7M / -6.0%)** - Interim Stabilization SX and U Farm time phasing, and Project W-314 rebaselining BCR (TWR-99-056) not being approved as of June month-end.

Impacts: No impacts. PAs and milestones will be met on schedule.

Corrective Action: Approximately \$3M of the Interim Stabilization schedule variance will be recovered as work progresses throughout the remaining months of the fiscal year. SX Farm and ancillary work activities are being deferred via BCR TWR-99-071, which is at ORP for approval. The schedule variance for Project W-314 will be reduced upon approval and implementation of the new baseline (TWR-99-056). The BCR is at ORP for approval.

River Protection Project June 1999

Schedule Variance (continued)

- **TW09 Immobilized Waste Storage & Disposal (-\$0.2M / -4.6%) - Within threshold.**

Impact: No impacts.

Corrective Action: None required.

- **TW10 Management Support (-\$0.4M / -1.6%) – Within threshold.**

Impact: No impacts.

Corrective Action: None required.

- **EM-50 Hanford Tanks Initiative (-\$2.3M / 40.1%) - Work scope suspended.**

Impacts: Work scope deleted/deferred.

Corrective Action: BCR TWR-99-071 has been approved--will be reflected in July data.

River Protection Project June 1999

Cost Variance (continued)

- **TW04 Waste Retrieval (-2.5M / -6.0%)** – Resources expended for equipment repairs/modifications to develop a VOC abatement concept and make repairs to jumper for Tank 241-C-106, and costs for prior year W-211 equipment procurements are being posted as equipment is delivered. Performance was taken in prior years as fabrication progressed on the equipment.

Impacts: Funds for general equipment repairs were consumed earlier than planned; however, no overrun is projected as contingency for C-106 was planned in September. Project W-211 FYTD variance will remain.

Corrective Action: BCR TWR-00-072 will replan the contingency to cover unanticipated repair costs and accelerate an additional 2 feet of sluicing from FY 2000 to FY 1999. No corrective action is required for W-211 as the project-to-date cost performance is within the variance threshold. A letter has been sent from FDH to ORP requesting that the cost variance related to Project W-211 be excluded from the fiscal year-end cost variance calculations.

- **TW05 Process Waste Support (-\$0.2M / -2.7%)** - Within threshold.

Impact: No impacts.

Correction Action: None required.

- **TW08 Privatization Infrastructure (+\$0.8M / +23.4%)** - Underruns in Program Management, Waste Management, Dyncorp. and Project W-519, "Privatization Phase I Infrastructure" due to using fewer resources than originally planned.

Impacts: None.

Corrective Action: Underruns will be used to complete remaining work scope including the MYWP and baseline update. Approximately \$300K has been made available for other RPP priority work.

Consent Decree Status, Complete Single-Shell Tank Interim Stabilization

Status June 1, 1998 to July 27, 1999:

- Single-Shell Tanks (SSTs) 241-T-104, 241-T-110, 241-SX-104, 241-SX-106, 241-S-102 and S-106 are being interim stabilized.
- Approximately 410,460 gallons of pumpable liquid waste removed, 6.6% of the original 6.2 M total gallons: T-104 pumped 30,755 gallons, T-110 pumped 33,983 gallons, SX-104 pumped 121,405 gallons, SX-106 pumped 89,601 gallons, S-102 pumped 34,426, S-103 pumped 13,636 and S-106 pumped 86,660 gallons.
- S-103 pumping commenced June 4, 1999 and initial pumping criteria achieved June 12, 1999. 244-S DCRT by-pass complete for the S Tank Farm.
- Engineering and Field preparation work in progress to support Tanks U-103, U-105, U-102 and U-109 pump starts.

Potential Issue:

1. The following key ORP activities are scheduled to occur within the August - October time frame:

- August - Cross-Site Transfer (2nd planned cross-site transfer in FY99), originating at DST SY-102,
- September - SY-101 Transfer to SY-102, and
- September/October - Initial U Farm Tank Pump Start.

Procedures have been modified to allow simultaneous saltwell pumping while performing transfers (i.e. DCRT and cross-site)

2. Tanks T-104 and T-110 have not achieved the interim stabilization pumping criteria. Both tanks contained over 50,000 gallons of pumpable liquids and when operating continue to pump at a rate above .05 gallons per minute.

Current planning basis assumes increased resource requirements as pumping rates decrease down to the sludge portion of the pumping curve. Interim Stabilization may incur potential impacts to cost and schedule should Tanks T-104 and T-110, scheduled to complete within the 2nd and 3rd quarters of fiscal year 1999, continue to dribble into fiscal year 2000. Potential impact to be evaluated at fiscal year end.

3. Planned pumping efficiencies of 45% minimum have not been achieved. Cumulative average pumping efficiency approximately 33%. Potential inability to recover baseline volumes and achieve outyear consent decree volumes. Life-cycle impact to baseline schedule and consent decree commitments is currently being evaluated by LMHC.

Planned Activities:

7/27/99

Status/Issues/Planned Activities

July, 1999

- Engineering and Field preparation work in progress to support Tanks U-103, U-105, U-102 and U-109 for Fiscal Year 2000 pump starts.
- By-pass the 244-S DCRT the SX Tank Farm and 244-U for U Tank Farm.
- Prepare U-Farm for an initial U-Farm tank start by October 1999 start
- Charter an integrated process improvement team for the Single-Shell Tank Interim Stabilization Project.
- Determine method for retrieval of organic layer in Tank 241-C-103.

7/27/99

Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review



Larry Gadbois,
***U.S. Environmental
Protection Agency***

Bob Holt,
***U.S. Department of Energy,
Richland Operations***

July 27, 1999

Activity ID	E LINE ES	BASELINE EF	MILN	MILE	Total Float	FY99												FY00																	
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
HBW3701C59		19OCT98	S08-97-070	CXX	30	CVD SAR (Phase 2) Approval ◆17MAR99A																													
FAWA1254		05NOV98	S05-98-100	FOX	63	Submit MCO Topical to DOE RL ◆05NOV98A																													
FCW091932		20NOV98	S04-99-816	ROX	102	DOE-RL Approve CTFM SAD ◆23FEB99A																													
HBW3501B09	24NOV98		S08-97-020	CXX	71	CD3B-CVD Equipmnt Installation Approval ◆16JUN99A◆																													
AAW00A2		30NOV98	S01-99-122	HEI	173	M34-03 Submit Remed Act Feasibility Study to EPA ◆20NOV98A																													
FCW000NEW		04DEC98	S04-98-721	CXX	102	CD3B for Cask Loadout ◆13MAY99A																													
DEW1302992		31DEC98	S04-97-101	CXX	151	Pot Water - CD-4 Cmpl: Start Operations ◆15JAN99A																													
BBW4610A-5		21JAN99	S02-98-135	ROX	29	Cmpl KW Fuel TGA Testing ◆15MAR99A																													
FAWA1180		29JAN99	S05-99-002	CXX	208	Complete Fab & Delivery 3 Test MCO's ◆30MAR99A																													
UAW000610		03FEB99	S09-99-120	ROX	656	Complete 327 Building Fuel Unloading at K Basins ◆05MAY99A																													
FAWA0980	11FEB99		S05-98-004	CXX	208	MCO's Available for Testing ◆30MAR99A◆																													
GAW620280		11FEB99	S07-97-054	ROX	28	CSB & Project FSAR Submittal ◆11FEB99A																													
HBW3701C92		11MAR99	S08-99-067	CFX	3	Submit CVD FSAR to DOE ◆05JUN99A																													
DAW710302C		12APR99	S03-98-611	ROX	28	Submit 100K FSAR to DOE-RL for Review & Approval ◆22SEP99																													
HBW3501C75		12MAY99	S08-99-075	CXX	113	CVD Facility PAT's Complete ◆09JUL99																													
GAW620295		25MAY99	S07-97-053	ROX	28	CSB FSAR & Project FSAR Approval ◆21DEC99																													

NOTE:
 BASELINE - LARGE DIAMOND
 PROJECTED - SMALL, DARK DIAMOND

Project Start 01OCT92
 Project Finish 26SEP46
 Data Date 01OCT98
 Run Date 27JUL99

Legend:
 [Solid Bar] Early Bar
 [Dashed Bar] Projected Bar
 [Dotted Bar] Progress Bar

BTPB

SPENT NUCLEAR FUEL PROJECT
 MONTHLY MILESTONE REPORT - FY99
 BASELINE vs. CURRENT SCHEDULE

Sheet 1 of 3

LT-63, Current Data Date 06/28/99

Date	Revision	Checked	Approved

Status SNF Project Performance Agreements

- **Complete K West Fuel Retrieval System**
 - **Performance Agreement due date August 5, 1999**
 - **Status - negotiation of percent of completion underway with RL**
 - **TPA Target M-34-13A-T01 due date July 31, 1999**
 - **Status - behind schedule**
 - **RL to submit letter to EPA to extend to September 30, 1999**
 - **Comments**
 - **All components installed except primary cleaning machine**



Status SNF Project Performance Agreements (Continued)

- **Complete K West Integrated Water Treatment System**
 - **Performance Agreement due date July 7, 1999**
 - **Status - completed ahead of schedule**
 - **TPA target M-34-11-T01 due date June 30, 1999**
 - **Status - completed ahead of schedule**
 - **Comments**
 - **None**
- **Complete Sampling and Welding Station installation and testing**
 - **Performance Agreement due date September 28, 1999**
 - **Status - on schedule**
 - **Not a TPA Target or Interim milestone**
 - **Comments**
 - **None**



Status SNF Project Performance Agreements (Continued)

- **Complete pre-operational testing of MCO Handling Machine**
 - ***Performance Agreement due date June 22, 1999***
 - **Status - Missed by 4 days (Completed June 26, 1999)**
 - ***Not a TPA Target or Interim milestone***
 - ***Comments***
 - **Approval of fee pending at RL**
- **Complete MCO Cask Loadout System in K West Basin**
 - ***Performance Agreement due date August 10, 1999***
 - **Status - behind schedule**
 - ***Interim TPA milestone M-34-14A due date September 30, 1999***
 - **Status - behind schedule**
 - ***Comments***
 - **TPA Change Control submitted to regulators for extension to April 30, 1999**



Status SNF Project Performance Agreements (Continued)

- **Complete CVD Process Equipment Acceptance Testing for first two bays**
 - **Performance Agreement due date September 30, 1999**
 - **Status - on schedule**
 - **TPA Target M-34-15A-T01 due date October 31, 1999**
 - **Status - on schedule**
 - **Comments**
 - **Change/Renegotiation of PA requested by contractor; RL denied**



Status SNF Project Performance Agreements (Continued)

- **Submit Safety Analysis Reports and the MCO Topical Report**
 - *Performance Agreement due dates - schedule renegotiated with RL*
 - **Status**
 - *Final schedule undergoing review/approval by RL*
 - *Five of seven baseline elements on target*
 - *Submit 100K FSAR reported as “change/renegotiation required” by contractor (issue on 14 week slip)*
 - *All 14 stretch elements missed*
 - *Not a TPA Target or Interim milestone*
 - **Comments**
 - **Refer to nuclear safety documentation slide**



Status SNF Project Performance Agreements (Continued)

- **Implement Integrated Environmental Safety and Health Management System for Spent Nuclear Fuels Project**
 - ***Performance Agreement due date September 1, 1999***
 - **Status - on schedule**
 - ***Not a TPA Target or Interim milestone***
 - ***Comments***
 - **None**



Hanford Spent Nuclear Fuel Project

**Spent Nuclear Fuel Project
Financial Status thru June
(based on early start schedule)**

\$ in 000s					SCHEDULE	COST	<u>BAC</u>
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>VARIANCE</u>	<u>VARIANCE</u>		
EXPENSE	\$93,142	\$88,583	\$91,277	(\$4,559)	(\$2,693)	\$128,979	
CAPITAL EQUIPMENT	14,951	11,472	12,322	(3,479)	(850)	17,974	
LINE ITEM	<u>31,076</u>	<u>28,646</u>	<u>36,572</u>	<u>(2,429)</u>	<u>(7,926)</u>	<u>45,103</u>	
TOTAL	\$139,169	\$128,702	\$140,170	(\$10,467)	(\$11,469)	\$192,056	

Schedule Variance

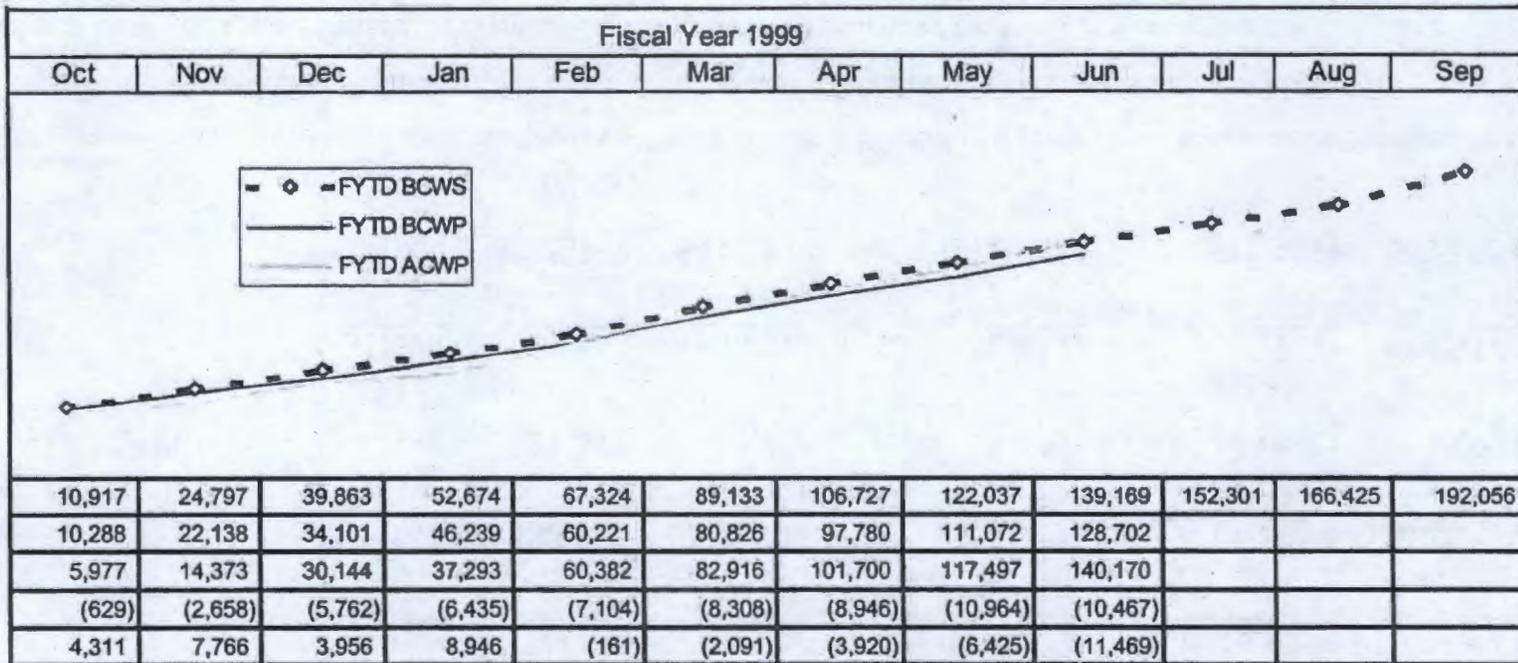
- (37%) CVD procurements awarded late and construction activities behind. Deliveries and construction completion will support TPA Dates.
- (14%) IWTS KE design activities not started due to resource availability. Construction schedule supports TPA dates.
- (14%) FRS KW construction delayed due to late equipment delivery. Construction schedule supports TPA dates.
- (7%) KE MLS facility design & construction modification activities behind schedule. Work deferred to support KW activities.
- (9%) Characterization floor pit sludge & canister sludge sample pretreatment behind schedule. Work deferred to support KW activities.
- (4%) KW MLS installation work delayed due to cask drop analysis issue resolution. Current recovery schedule supports start of fuel movement.
- (5%) Miscellaneous.

Cost Variance

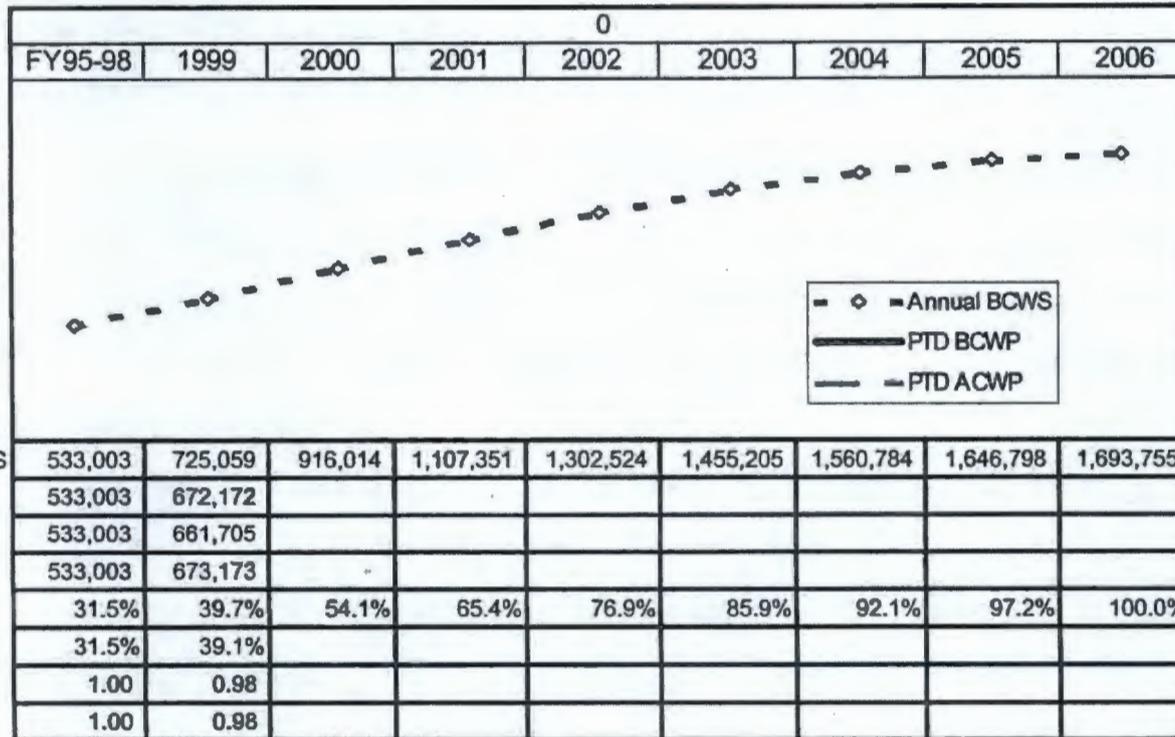
- (68%) CVD Title III engineering costs higher than planned due to safety driven changes; fixed price construction costs higher than planned due to design issues; BCR in process.
- (28%) K Basin facility maintenance costs higher resulting from reducing maintenance backlog; FDNW construction support higher than planned.



SNF Project Baseline Fiscal Year 1999



SNF Project - Total Project Baseline



Life Cycle	
*BAC=	1,719,690
EAC=	1,719,690
CV=	0
Trend=	-

*Includes \$25,935K for FY2007

Year End	
BCWS	192,056
Forecast	192,056
Delta	-

Project to Date	
BCWS=	672,172
BCWP=	661,705
ACWP=	673,173
SV=	(10,467)
CV=	(11,469)



Significant Accomplishments

- **K West Basin Fuel Removal Projects**
 - ***Construction/acceptance testing of the Integrated Water Treatment System in K West Basin (M-34-11-T01) completed***
 - ***Installation of Fuel Retrieval System (FRS) process tables and Manipulator arms completed***
 - ***Construction/acceptance testing of FRS (Target M-34-13A-T01) delayed to September 1999; redesign/testing of primary cleaning machine (fuel tumbling basket) required***
 - ***Modifications K East and West Basin drain valves completed***
- **Completed fabrication and delivery of three training MCOs for cold testing activities**
- **Completed fuel shipments from 327 Building to K East Basin**
- **Established alternative path forward for sludge removal/disposal**



Significant Accomplishments

(Continued)

- **Nuclear Safety Documentation**
 - ***CSB FSAR in RL/Contractor review cycle***
 - **Final revision due August 4, 1999**
 - **Unresolved issue - MCO drop analysis**
 - ***Multi-Canister Overpack Topical Report in review cycle***
 - **Contractor revision with response to RL comments due July 28, 1999**
 - **Structural analysis remains unresolved**
 - ***Cold Vacuum Drying Facility FSAR at RL for technical review***
 - **Formal RL comments to contractor August 18, 1999**
 - **No significant issues open at this time**
 - ***K Basins Safety Analysis Review***
 - **Being updated to support early start hot operations**
 - **On schedule for completion and approval in October 1999**



Significant Accomplishments **(Continued)**

- **Cold Vacuum Drying Facility progress**
 - *Received and installed the first process equipment skid*
 - *Received and installed the process water conditioning skid*
- **Canister Storage Building progress**
 - *Completed placement of all 220 tube assemblies in Vault 1*
 - *Completed installation and pre-operational acceptance testing of the MCO Handling Machine*
- **Submitted revised Focus Feasibility Study and Proposed Plan to EPA (Milestone M-34-03)**
- **Submitted Annual Debris Report to EPA (Milestone M-34-05-T01)**



Upcoming Activities

- **DOE approval of 100K SAR annual update (July 1999)**
- **Procurement of MCOs (July 1999)**
- **Complete CVD First 2 bays construction acceptance test (August 1999)**
- **Complete KW FRS construction and installation (September 1999)**
- **DOE/Regulators sign Record of Decision on Focus Feasibility Study (September)**
- **DOE approve CVD FSAR (November 1999)**
- **Begin Facilities Evaluation Board (FEB) Audit (tentatively re-scheduled for early December 1999)**
- **DOE approve of CSB FSAR (December 1999)**



SNF Project Issues/Concerns

- **Canister Storage Building Cask Drop Analysis**
- **Resolution of Fuel Crumbling Phenomena**



CLS Issue

- **Review of the cask drop analysis for the cask loadout system (CLS) identified non-conservative leakage estimates;**
 - ***Damage at wall/floor joint can be extensive***
 - ***Damage can result in basin leak rates that exceed safety authorization basis***
 - ***Will impact completion of milestone M34-014A (9/30/99)***



Permitting and Regulatory Issues

- **None**



Non-TPA Regulatory Issues with Potential to Impact TPA Milestones

- None

