

Meeting Minutes  
 July 27, 2004  
 Tri-Party Agreement Milestone Review

0063244

Approval: Michael A. Wilson  
 Michael A. Wilson (H0-57)  
 Ecology IAMIT Representative

Date: 11/16/04

Approval: J. B. Hebdon  
 J. B. Hebdon, (A5-12)  
 Chairperson and RL IAMIT Representative

Date: 12/06/04

Approval: Jim E. Rasmussen  
 Jim E. Rasmussen (H6-60)  
 ORP IAMIT Representative

Date: 11/16/04

Approval: Nick Ceto  
 Nick Ceto (B5-01)  
 EPA Chairperson and IAMIT Representative

Date: 11/22/04

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Minutes Prepared by: Eileen Murphy-Fitch  
 Approval: Eileen Murphy-Fitch (A4-25)  
 Fluor Hanford, Inc.

Date: 10/26/04

Aromi, E. S.	CHG	H6-63	LaRue, D. N.	BHI	H0-20
Bartus, D.	EPA	H0-57	Leary, K. D.	RL	A6-38
Bazzell, K. D.	RL	A3-04	Mattlin, E. M.	RL	A5-11*
Bond, R.	Ecology	H0-57	McCormick, M. S.	RL	A5-11
Borghese, J. V.	FH	E3-65	McKarns, T. C.	RL	A5-15
Brown, M. E.	Ecology	H0-57*	McKenney, D. E.	FG	H8-44
Buxbaum, M.	FH	B3-53*	Miskho, A. G.	FH	H8-40
Cameron, C.	EPA	B5-01	Morrison, R. D.	FH	A4-25*
Clark, C. E.	RL	A5-15	Murphy-Fitch, E. J.	FH	A4-25*
Charboneau, B. L.	RL	A6-33	Niles, K. S.	ORL	
Charboneau, S. L.	RL	A5-11	Olinger, S.	RL	A6-43
S. Cimon	ODE		Piippo, R. E.	FH	A4-25
Cusack, L.	Ecology	H0-57*	Price, J.	Ecology	H0-57*
Cummins, G. D.	FH	H8-12	Romine, L. D.	RL	A6-33
Dagan, E. B.	RL	A5-15	Schepens, R. J.	RL	H6-60
Earley, L.	RL	A5-11	Skinnarland, E. R.	Ecology	H0-57
Faulk, D.	EPA	B5-01	Sobotta, P.	NPT	
Foley, B. L.	RL	A6-38	Sinton, G.	RL	A6-38
Ford, B. H.	FH	E6-35	Thompson, S.	FH	H8-12
Fritz, L.	FH	H8-44	VanMason, E.	Ecology	H0-57
French, M.	RL	A6-38	Watson, D.	FH	X3-79
Gadbois, L.	EPA	B5-01	Wilde, R.	FH	H8-44
Gallagher, R.	FH	H5-20	Williams, J. D.	FH	R3-62
Harris, S.	CTUIR		Winterhalder, J. A.	FH	E6-35
Hebdon, J. B.	RL	A5-15	Wilson, M. A.	Ecology	H0-57
Hedges, D.	Ecology	H0-57	Wilson, B. W.	Ecology	H0-57
Henry, D.	ODE		Wolf, A.	CTUIR	
Hertzel, J. S.	FH	A4-25	<b>Administrative Record</b>	EDMC	H6-08*
Hildebrand, R. D.	RL	A6-38*	<i>*w/Attachments File</i>		
Hopkins, A.	FH	H8-25			
Jackson, D. E.	RL	A4-52			
Jackson, G. W.	FH	H5-20			
Jackson, R.	FH	E6-35			
Jim, R.	YIN				

**Tri-Party Agreement Milestone Review**  
**July 27, 2004**

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**Spent Nuclear Fuel (Tri-Party Agreement Milestone M-034-00)**

Start: 10:00 a.m.

Stop: 10:31 a.m.

The public comment period is complete for the Class I Tri-Party Agreement Change Request M-034-04-01, *Acceleration of K Basins Sludge Treatment and Disposal, Basin Remediation, and Delay in Sludge Retrieval*. Five public comments were received, (State of Oregon, HAB, Yakima Indian Nation, and two unaffiliated commenter); comment responses are being developed.

Although the transfer of SNF fuel is almost complete, the Project is becoming more challenging. The remaining fuel is in poor condition and is difficult to remove. Welding of the fuel canisters is going well with 20-23 canisters ahead of schedule.

RL reported that there was a fatality at the Savannah River Plant July 26, 2004. DOE-HQ has requested that all sites review existing procedures and ensure adequate oversight of subcontractor work and that appropriate safety requirements are flowing down to the subcontractors. This review may result in some contractor work stoppage/delay in the near future.

No significant issues/concerns resulting in follow-on activities were identified during the presentation. Presentation is attached.

**Central Plateau (M-013, M-015, M-016, M-020, and M-024)**

Start: 10:31 a.m.

Stop: 11:25 a.m.

Ecology is concerned that Tri-Party Agreement Major Milestone M-13-000, *Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-SW-2, Radioactive Landfills and Dumps OU*, due December 31, 2004, will be missed due to a disagreement between the Parties about the technical scope for characterizing 15 pre-1970 radioactive burial grounds. RL has proposed submitting the draft work plan without the 15 sites with the agreement that the work plan will be amended to add them. RL is also considering proposing a phased approach that could be included in the December draft. Ecology has requested collaborative negotiations to reach agreement on the workplan scope. Ecology is concerned that they can't get a response from RL.

RL stated the M-024 milestone series. A Tri-Party Agreement Change Request is in process adding 15 wells for FY 2007. Ecology stated that they had received comments from their attorney and tentatively did not have any significant comments.

The pump-and-treat in K area for Cr continues to be an issue. EPA does not agree with the pumping schedule proposed RL and stated that RL needs to find the funds to resolve the issue. RL stated that they are looking at different technologies to resolve the Cr issue.

RL is looking at suspending the pump and treat in 100-NR-2. The pump-and-treat would be shutdown to install a new passive barrier. This work would take about 1 ½ years to complete. Ecology stated that if

this is the path forward, it needs to be communicated to the stakeholders and this communication needs to happen soon. RL agreed.

No significant issues/concerns resulting in follow-on activities were identified during the presentation. Presentation is attached.

**PFP Transition (Tri-Party Agreement Milestone M-083-00)**

Start: 11:08 a.m.

Stop: 11:25 a.m.

In the next few weeks PFP will receive ~250 employees from the SNF project and plan to have ~30 D&D teams working in the field at PFP. Approximately 920 folks will be working at PFP by September 30, 2004. A question was raised on EPA approval of Ecology EE/CAs. EPA plans to have a meeting next week to decide if they need to be involved with the approval of the EE/CAs.

No significant issues/concerns resulting in follow-on activities were identified during the presentation. Presentation is attached.

**Land Disposal Restriction Report (Tri-Party Agreement Milestone M-026-01)**

Start: 11:26 a.m.

Stop: 11:28 a.m.

The CY 2003 Land Disposal Restriction (LDR) Report was delivered to Ecology on April 28, 2004. Ecology extended their review of the CY 2003 LDR Report until September 14, 2004, so that an M-026 inspection can be conducted for the 241-CX Tank System Treatability Group (specifically the quality of the data used to generate the 2410CS data sheets). Ecology's comments are expected by September 14, 2004.

Presentation attached.

**Acquisition of Facilities to TSD TRU/TRUM, LLMW (M-091)**

Start: 11:28 a.m.

Stop: 11:40 a.m.

RL reported that completion of Tri-Party Agreement Interim Milestones M-091-12A, *Complete Thermal Treatment of 240 m<sup>3</sup> of Contact-Handled Low-Level Mixed Waste (CH-LLMW)* due December 31, 2004, and M-091-12, *Complete Thermal Treatment of 360 m<sup>3</sup> of CH-LLMW* due December 31, 2005, continues to be an issue. Two request for proposals (RFPs) for additional thermal treatment capacity were issued and responses are currently in review. The thermal treatment schedule will be re-evaluated and may require a Tri-Party Agreement change request proposing an alternative schedule.

Presentation is attached.

**Facilities for Cs/Sr, Sodium and SCW (River Corridor Project portion of Tri-Party Agreement Milestone M-092)**

Start: 11:40 a.m.

Stop: 11:48 a.m.

The project status was presented. Ecology requested that RL explain their path forward for the capsules – will Yucca Mountain accept them? RL will meet with Ecology on the disposition of the capsules.

Action: Meet with Ecology on the disposition of the capsules  
Actionee: Mark French, RL

Presentation Attached.

**Permitting/Closure Plans (Tri-Party Agreement Milestone M-020)**

Start: 11:48 a.m.

Stop: 11:55 a.m.

Status and planned accomplishments were discussed. Presentation attached.

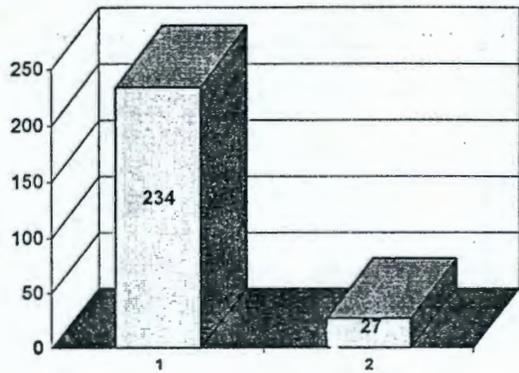
# CENTRAL PLATEAU MILESTONE REVIEW



3<sup>rd</sup> Quarter FY 2004

# CENTRAL PLATEAU MILESTONES

## Central Plateau TPA Milestone Statistics (Major & Interim Milestones)



Major Milestone	Compliance Due Date	Total Active*	Milestone Number	Compliance Due Date	Milestone Description
M-13-00 Submit Work Plans for RFI/CMS or RI/FS Studies	12/31/2004 (M-13-000)	1	M-13-00N(C)	09/30/04	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan For The 200-UR-1
			M-13-00O	12/31/04	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan For The 200-SW-1
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00)	9	M-15-41C(C)	03/31/04	Submit Draft 200-TW-1 OU & 200-TW-2 OU FS & Proposed Plan
			M-15-39B(C)	05/31/04	Submit Draft A 200-CS-1 Chemical Sewer Group RI Report
			M-15-43B(C)	06/30/04	Submit 200-PW-2 OU RI Report Including Past Practice Waste Sites
			M-15-40C	10/31/04	Submit Draft A 200-CW-5 Pond/Z Ditches Cooling Water Group FS
			M-15-46A	10/31/05	Submit 200 Area Chemical Laboratory Waste OUs RI Report
			M-15-39C	11/30/05	Submit Draft A 200-CS-1 Chemical Sewer Group FS and Proposed Plan
			M-15-43C	12/31/05	Submit 200-PW-2 OU FS and Proposed Plan/Permit Modification
			M-15-44A	12/31/05	Submit 200-MW-1 OU RI Report
			M-15-46B	09/30/06	Submit 200 Area Chemical Laboratory Waste OUs FS
			M-15-44B	12/31/06	Submit 200-MW-1 OU FS and Proposed Plan
			M-15-00C	12/31/08	Complete 200 Area Non-Tank Farm OU Pre-ROD Site Investigations
M-15-00	12/31/08	Complete RI/FS (or RFI/CMS) Process for All Operable Units			
M-16-00 Remedial Design / Remedial Action	9/30/2024 (M-16-00)	3	M-16-66	09/30/04	Initiate Intermediate Design & Authorization Safety Analysis
			M-16-67	03/31/07	Submit Design Report, Schedule, Work Plan for 618-10/11
			M-16-00	09/30/24	Complete Remedial Actions for All Non-Tank Farm Operable Units
M-20-00 Submit Closure Plans for All RCRA TSD Units	12/31/2008 (M-20-00) (Shared with FH)	5	M-20-39	11/30/05	Submit 216-S-10 Pond & Ditch Closure Plan to Ecology
			M-20-33	12/31/05	216-A-10/216-A-36B/216-A-37-1 Crib Closure/Post Closure Plans
			M-20-54	12/31/08	Submit 241-CX Tank System Closure/Postclosure Plan
			M-20-00B	12/31/08	Submit 216 & 241 Areas Closure/Post Closure Plans
			M-20-00	12/31/08	Submit Part B Permit Applications or Closure/RCRA TSD Units
M-24-00** RCRA Groundwater Monitoring	Annually	9	M-24-57A(C)	12/31/03	DOE Shall Install a Minimum of 15 Wells by 12/31/03
			M-24-57B(C)	06/30/04	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57C	08/01/04	Conclude Negotiations & Revise M-024-57 by 08/01/04
			M-24-57D	12/31/04	DOE Shall Install a Cumulative of 30 Wells by 12/31/04
			M-24-57E	06/30/05	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57F	08/01/05	Conclude Negotiations & Revise M-024-57 by 08/01/05
			M-24-57G	12/31/05	DOE Shall Install a Cumulative of 45 Wells by 12/31/05
			M-24-57H	06/30/06	DOE Initiates Discussions Annually to Reaffirm Selected Wells
			M-24-57I	08/01/06	Conclude Negotiations & Revise M-024-57 by 08/01/06
			M-24-57J	12/31/06	DOE Shall Install a Cumulative of 60 Wells by 12/31/06
M-24-00O	TBD	Complete Well Installations in Accordance with RCRA/CERCLA GW Reqs			

6 --- MILESTONE COMPLETED IN FY04 (C)

### TOTAL ACTIVE MILESTONES

27

\* Includes TPA changes requests approved thru March 31, 2004.

\*\* M-24-00/57 Modified by Change Request M-24-02-02 Approved March 01, 2004

# **WASTE SITE REMEDICATION & FACILITIES**

**M-013-00**

**M-015-00**

**M-016-00**

**WASTE SITE REMEDIATION PROJECTS  
FY 2004 TPA MILESTONE SUMMARY  
(Major & Interim Milestones)**

**Status as of: June 30, 2004**

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast		
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule
	M-015-41C	Submit 200-TW-1 & TW-2 OU FS and PP including Past Practice Waste Sites in 200-PW-5 Fission Product-Rich Process Waste Group	3/31/04	3/30/04		X			
	M-015-39B	Submit 200-CS-1 Chemical Sewer Group RI Report	5/31/04	5/27/04	X				
	M-013-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-UR-1 Unplanned Releases	6/30/04	6/30/04		X			
	M-015-43B	Submit 200-PW-2 OU RI Report including Past Practice Waste Sites in the 200-PW-4 General Process Waste Group	6/30/04	6/24/04	X				
	M-016-66	Initiate Intermediate Design and Authorization Safety Analysis for Remedial Actions (618-10/11)	9/30/04	9/30/04				X	

## WASTE SITE REMEDIATION ACCOMPLISHMENTS

### 200 Area Waste Site Remediation

The Draft A Remedial Investigation Report for the 200-CS-1 Operable Unit was submitted to the regulators on May 27, 2004, meeting TPA Milestone M-015-39B.

The Draft A Remedial Investigation Report for the 200-PW-2/200-PW-4 Operable Units was submitted to the regulators on June 24, 2004, meeting TPA Milestone M-015-43B.

The Draft A Remedial Investigation/Feasibility Study Work Plan and Engineering Evaluation/Cost Analysis for the 200-UR-1 Operable Unit was submitted to the regulators on June 30, 2004, meeting TPA Milestone M-013-00N.

The Tri-Party Agreement Appendices B and C were modified (Change Number C-03-01) to establish a new soil operable unit (200-UW-1) for selected waste sites in the U Plan area. The change request was approved by the parties on April 23, 2004. The 200-UW-1 Proposed Plan is in its final revision to be submitted as Draft C for EPA Region 10 review. This revision clarifies RCRA/CERCLA integration, refines the alternatives, clarifies intruder scenarios, and provides a path forward in dealing with impacts of deep vadose contamination on the underlying groundwater system.

The Rev.0 Work Plan for the 200-PW-1, 200-PW-3, and 200-PW-6 OU Group (plutonium- and/or organic-rich) was approved on April 26, 2004. Pre-job planning is in progress. The remedial investigations are scheduled for late FY2004 and for FY2005. The remedial investigation report is scheduled to be completed by June 30, 2006.

Interim TPA milestones were established for the 200-PW-1, 200-PW-3, and 200-PW-6 OUs under Change Number M-15-01-05. Milestones were established for the submittal of the Remedial Investigation Plan by June 30, 2006 and of the

Feasibility Study and Proposed Plan by September 30, 2007.

The 200-CW-5, 200-CW-2, 200-CW-4, and 200-SC-1 Rev. 1 consolidated work plan for these OUs was finalized and transmitted to DOE/RL on April 1, 2004. Comments received on the OU Remedial Investigation (RI) Report from the regulators in December 2003 have been incorporated. The final document is planned for transmittal in July 2004 to DOE/RL and the regulators.

Progress continues on development of the data quality objectives (DQO) and sampling analysis plan to support completion of the 200 Area NPL site ecological risk assessment needs.

Planning efforts were initiated for the remedial investigation activities for the 200-MW-1 OU. Field activities are scheduled to begin in the 4<sup>th</sup> quarter.

Planning efforts were initiated for the remedial investigation activities for the 200-LW-1 and 200-LW-2 OUs. Field activities are scheduled to be completed in the 4<sup>th</sup> quarter.

Planning efforts were initiated for additional remedial investigation activities supporting the 200-PW-2 OU work at the 216-S-7 Crib. Field activities are scheduled to be completed in the 4<sup>th</sup> quarter.

Development of the 200-SW-1 and 200-SW-2 OU Group (nonradioactive and radioactive landfills and dumps) Work Plan continues. Issues include 40 CFR 191 as an applicable or relevant and appropriate requirement for these OUs and the use of process knowledge. The DQO for this work plan is in progress. The work plan will be submitted to the regulators by December 31, 2004 under Tri-Party Agreement milestone M-013-000.

Remedial design activities continued for the 618-10 and 618-11 Burial Grounds in support of TPA Milestone M-16-66.

## WASTE SITE REMEDIATION ISSUES

### U Plant Soil Waste Sites

**Issue-** The characterization and remediation planning approach for pipelines in the U Plant area is not progressing at a pace that is satisfactory to the regulators due to primarily budgetary constraints.

**Impact** - Delays in the regional closure at the U Plant area.

**Status-** Meetings continued between RL and ORP and their Subcontractors in developing characterization and remediation criteria for central plateau pipelines. These criteria will be documented in the 200-IS-1 work plan. A focused pipeline EE/CA for the U Plant area is planned in FY05 using the characterization and remediation criteria developed in the 200-IS-1 work plan.

### 200-PW-2 and 200-PW-4 Work Plan Approval

**Issue-** Outstanding comments remain on the 200-PW-2 and 200-PW-4 Operable Units Work Plan. The comments include the need for a borehole in a hexone waste site.

**Impact-** No further impact; the issue has been resolved.

**Status-** A comment resolution meeting was held with Ecology on May 14 and all remaining issues were resolved. Finalization and issuance of Revision 1 of the work plan is underway.

Planning is underway to drill a borehole in the 216-S-7 Crib. The additional characterization data will be included in the Feasibility Study which follows the RI report so the associated FY04 and FY05 TPA milestones should not be negatively impacted.

### 200-IS-1 and 200-ST-1 Work Plan Approval

**Issue-** Ecology has requested that the pits, lines, tanks, and boxes (200-IS-1) and septic tanks

(200-ST-1) work plan be revised to include additional information on "likely response scenarios and potentially applicable technologies and operable units that may address site problems." This would require a revision to the Rev. 0 document.

**Impact-** Approval of the work plan is required to support planned field work in the spring of 2005. Ecology expects the revision prior to approval.

**Status-** USDOE is preparing a Revision 1 work plan. One unresolved issue is the interface between RL and ORP; the latter has programmatic responsibility for some waste sites included in these operable units that are not addressed by the work plan. RL and ORP are working on options to resolve this issue that results in a logical and consistent process for addressing sites in both programs.

### 200-TW-1, 200-TW-2, and 200-PW-5 RI Report Approval

**Issue** – The regulators provided comments in a letter dated March 2, 2004, concerning the fate and transport modeling performed for the representative waste sites. The regulators provided conditional approval of the RI Report pending resolution of the modeling comments.

**Impact** - Approval of the RI Report is contingent on resolving these comments.

**Status** – Based on coordination with EPA, Ecology, and the USGS, RL has conducted additional modeling runs that incorporate agreed upon modifications and sensitivity analysis. Preliminary results of these modeling runs have been provided to EPA, Ecology, and the USGS in June, 2004, for review. EPA has indicated that the USGS cannot provide comments until July 19, 2004. The RI Report will be revised to incorporate the modeling results once the regulators and the USGS are satisfied with the additional modeling results.

**200-TW-1, 200-TW-2, and 200-PW-5 FS  
Report Review**

**Issue-** Ecology comments on the Draft A report stated, "the FS as structured now is extremely complex and impossible to process within the TPA prescribed review period. The task of reviewing and commenting on the proposed remedy will be arguably impossible for the general public. USDOE in consultation with the regulatory agencies needs to develop a strategic approach to the remedy selection and public involvement for same." This opinion has the potential to significantly impact the current ROD strategy for the Central Plateau OUs.

**Impact-** Approval of the FS and proposed plan could be delayed and would not support the accelerated remedial actions at BC Cribs and Trenches.

**Status-** Regulator comments on the Draft A report urged its retraction and replacement with a focused FS (FFS) for the BC Cribs and Trenches Area to support an accelerated decision for those sites. The FS for the remaining waste sites would be placed in abeyance until a ROD for the BC Cribs and Trenches Area is issued. Submitting a FFS for

the BC Cribs and Trenches is planned for the 4<sup>th</sup> Quarter FY 2004. The overall ROD strategy is being revisited by an ongoing IAMIT subcommittee.

**200-SW-1 and 200-SW-2 Work Plan**

**Issue-** Ecology believes that the TPA milestone M-13-000 to deliver a draft RI/FS work plan by December 31, 2004, will be missed due to a disagreement about the technical scope for characterizing 15 pre-1970 radioactive burial grounds (there are 76 total waste sites in the work plan).

**Impact-** Impacts would be those associated with a missed major milestone.

**Status-** DOE has proposed submitting the draft work plan without the 15 sites, then later amending the work plan to add them in. DOE is also considering proposing a phased approach that could be in the December draft. Ecology has requested collaborative negotiations to reach agreement on the work plan scope.

# TPA Milestone Summary Schedule

Status as of: June 30, 2004

Updated July 01, 2004 10:00 AM

Operable Unit	Fiscal 2002				Fiscal 2003				Fiscal 2004				Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010			
	By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th
<b>200 Area Remedial Action</b>	Note 1 - 'Ecology believes this is at risk'																																			
200 Area Work Plans					M-13-00L 12/26/02(A) Submit 3 200 NFL RI/FS (RFI/CMS) Work Plans M-13-26 12/26/01(A) Submit Plutonium/Organic-Rich Process Waste Group (200-PW-7) Work Plan				M-13-00M 12/30/02(A) Submit 1 200 NFL RI/FS (RFI/CMS) Work Plan for 200-IS-1 OU, Includes waste sites in 200-ST-1				M-13-00N 08/30/04(A) Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for 200-UR-1 OU				M-13-00O (Note 1) Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for 200-SW-2 OU, Includes waste sites in 200-SW-1																			
200 Area Assessments					M-15-38A 10/23/02(A) Submit 200-CW-1FS/PP Proposed RCRA Permit Mod for Gable Min Pond/B Pond & Ditch Cooling Waste Group ...				M-15-40B 05/30/02(A) Submit 200-CW-5 U Pond / Z Ditches Cooling Water Group RI Report Including Past Practice Waste Sites in 200-CW-2, 200-CW-4 & 200-SC-1				M-15-40C Submit 200-CW-5 FS/PP for U Pond / Z Ditches Cooling Water Group, Including Past Practice Waste Sites in 200-CW-2, 200-CW-4, & 200-SC-1				M-15-46A Submit 200 Area Chemical Lab Waste OUs RI Report M-15-44A Submit 200-MW-1 OU RI Report M-15-46B Submit 200 Area Chemical Lab Waste OUs FS M-15-44B Submit 200-MW-1 FS & Proposed Plan																			
200-CS-1					M-15-39A 09/29/03(A) Complete Chemical Sewer Group field Work Through Sample Collection & Analysis M-15-39B 05/27/04(A) Submit 200-CS-1 Chemical Sewer Group RI Report				M-15-39C Submit 200-CS-1 FS/PP/Proposed RCRA Permit Mod for Chemical Sewer Group																											
200-TW-1 / 200-TW-2	M-15-41B 10/23/02(A) Submit 200-TW-1 & 200-TW-2 OU RI Report to Regulators, Including Past Practice Waste Sites in 200-PW-5				M-15-41C 03/30/04(A) Submit 200-TW-1 & 200-TW-2 OU FS/Proposed Plan to Regulators, Including 200-PW-5																															
200-PW-2					M-15-43B 06/24/04(A) Submit 200-PW-2 OU RI Report Including Past Practice Waste Sites in 200-PW-4				M-15-43C Submit 200-PW-2 OU FS/PP/Proposed RCRA Permit Mod Including Past Practice Waste Sites in 200-PW-4																											
200 Area Common					M-15-47 06/27/02(A) Submit PP to Regulators to Conduct RA for Source Control at High-Risk Waste Sites Which Includes an Engineering Evaluation of an Engineered Surface Barrier																				M-15-00 Complete RI/FS (or RFI/CMS) Process for All Operable Units M-15-00C Complete All 200 Area Non-Tank Farm OU Pre-ROD Site Investigations Under Approved Work Plan Schedules											
200 Area Closure Plans													M-20-39 Submit 218-S-10 Pond Ditch Closure/ Post Closure Plan to Ecology in Coord with/ FS for 200-CS-1 (w/ coord under M-15-39C) M-20-33 Submit 218-A-10, 218-A-36B, 218-A-37-1 Crib & 207-A South Retention Basin Closure/Post Closure Plan to Ecology in Coord w/FS for 200-PW-2 (w/ coord under M-15-43C)												M-20-54 Submit 314-CX-70, -71, -72 Tanks Closure/ Post Closure Plan to Ecsl in Coord w/ 200-IS-1 FS Scheduled under M-13-00M M-20-00B Submit Closure/Post Closure Plans for 218-A-10, 218-A-36B, 218-A-37-1, 207-A South Retention Basin 218-S-10 Pond, 218-S-10 Ditch, 341-CX-71, and 241-CX-72											

Major Milestone  
 Interim Milestone  
 Forecast  
 Complete  
 Unrecoverable  
 'At Risk'  
 (P) Pending Change Request  
 RCRA Permit Commitment

## FACILITIES ACCOMPLISHMENTS

Completed demolition of the 233-S Plutonium Concentration Facility. The final site stabilization and waste removal actions are being completed in July 2004.

The Action Memorandum for the Non-time Critical Removal Action For The 224B Plutonium Concentration Facility was approved on June 2, 2004. The Removal Action Work Plan, the Air Monitoring Plan, the Waste Management Plan and the Sampling and Analysis Plan for the associated B Plant Construction Laydown Yard were approved on June 23, 2004. The removal action for the laydown yard was initiated immediately upon the approval of those plans. The removal action for the 224-B building is being deferred and will likely coincide with future remedial activities at B Plant.

12 of the 22 buildings in the B Plant Construction Laydown Yard have been demolished as of July 9. Demolition of the remaining structures is expected to be completed by August 2004.

The Engineering Evaluation/Cost Analysis (EE/CA) for the U Plant Ancillary Facilities was submitted to RL for transmittal to the regulators in June 2004. The goal of having the EE/CA available for public comment in the August timeframe will support the start of the removal action in the fall of 2004. The removal action for the U Plant Ancillary Facilities supports overall U Plant zone remedial actions.

The Feasibility Study/Proposed Plan (FS/PP) for the Proposed Remediation of the 221-U Canyon Disposition Initiative (CDI) has been revised to incorporate regulator comments. Workshops with key regulator staff are planned for August to confirm that comments have been appropriately addressed. The final FS/PP are expected to be completed in September 2004 for final regulator review in anticipation of public comment in the December/January timeframe.

## FACILITIES ISSUES

None to Report



# **GROUNDWATER REMEDIATION PROJECT**

**M-013-00**

**M-024-00**

**GROUNDWATER REMEDIATION PROJECT  
FY 2004 TPA MILESTONE SUMMARY  
(Major & Interim Milestones)**

**Status as of: June 30, 2004**

PBS	Milestone	Title	Compliance Date	Forecast/ Actual Date	Completed		Forecast		
					Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	Behind Schedule
	M-024-57A	Complete required well installations in accordance with RCRA and CERCLA groundwater requirements. Install a minimum of 15 wells by 12/31/03.	12/31/03	12/31/03		X			
	M-024-57B	DOE Initiates Discussions Annually to Reaffirm Selected Wells	6/30/04	6/30/04	X				
	M-024-57C	Conclude Negotiations & Revise M-024-57	8/1/04	8/1/04				X	

## GROUNDWATER REMEDIATION ACCOMPLISHMENTS

Draft B RI/FS work plan for the 200-UP-1 operable unit is being reviewed by Ecology. The title of this report is *Remedial Investigation /Feasibility Study Work Plan for the 200-UP-1 Groundwater Operable Unit*, DOE-RL-92-76.

EPA and DOE/RL comments were received on the *Remedial Investigation/Feasibility Study Work Plan for the 200-ZP-1 Groundwater Operable Unit*, DOE/RL-2003-55. Draft comment responses have been developed and are under review.

The three 100 Area pump-and-treat systems (100-KR-4, 100-NR-2 and 100-HR-3) and the 200-ZP-1 OU are all operating above 90% availability for FY 04. For the 200-ZP-1 OU, replacements for current extraction wells 1 and 4 have been installed. Extraction well 1 is in operation. Well 4 was put on line however, it is waiting for the repair of a failed gasket.

Three extraction wells are currently pumping within the 200-UP-1 OU. Due to technical difficulties during the 1<sup>st</sup> quarter of FY04, the 200-UP-1 pump-and-treat system is currently showing 88% availability through mid June 2004. The 200-UP-1 OU is pumping >50 gpm throughout the remainder of the year to ensure that a 50 gpm average, as required by the interim action record of decision, is achieved at the end of CY 2004.

Vapor extraction at Trench T-04 in the 218-W-4C Burial Ground was completed on May 3, 2004.

As of June, 2004, 6 wells have been completed and accepted, drilling and completion of another 9 wells is underway for completion of the M-024 CY 2004 milestone.

A total of 146 wells were decommissioned as of June 2004.

The DQO Process was initiated in October 2003 for the evaluation of impacts at 100 N to aquatic and riparian ecoreceptors. The schedule for the DQO and SAP was revised so that seasonal sampling could be included. The final report will be issued in October, 2005 rather than October

2004 as previously planned. The revised schedule will also allow better coordination with the River Corridor Risk Assessment so that appropriate sample media are collected for both assessments. This change has been documented in CN135 Post-ROD Change Notice for the 100-NR-2 Operable Unit.

Laboratory studies supporting the 100-NR-2 strontium-90 (Sr-90) treatment options of phytoremediation and in situ formation of apatite at PNNL are progressing. Core samples were collected during drilling of a new monitoring well near the center of the former N springs. The core samples will be used to help assess Strontium-90 mobility and extraction efficiency based on site-specific media properties.

Work continued on remedial actions to address an additional area of chromium contaminated groundwater in the 100 D Area. A targeted pump and treat system was selected for the near term to minimize the impact of contaminated groundwater on the river and to achieve mass reduction of hexavalent chromium. Construction of the extraction and injection network and associated treatment system nears completion. Startup of an initial 40 -50 gpm system is scheduled for July 2004.

A focus group of outside experts was assembled to evaluate possible causes of the ISRM breakdown and to make recommendations for a mitigation plan. The group met at Hanford on March 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup>.

The focus group report has been received and recommends investigation of the ISRM barrier. Investigation activities will be initiated in the next quarter. As a follow up to this focus group another group will come late July /early August to evaluate amendments to the barrier. In addition to these two groups, a group came in May and reviewed the Pump and Treat systems. Their report is expected in July 2004.

## GROUNDWATER REMEDIATION ISSUES

None to Report

# TPA Milestone Summary Schedule

Status as of: June 30, 2004  
Updated July 01, 2004 10:15 AM

	Fiscal 2002				Fiscal 2003				Fiscal 2004				Fiscal 2005				Fiscal 2006				Fiscal 2007				Fiscal 2008				Fiscal 2009				Fiscal 2010							
	By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter				By Quarter							
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th				
618-10/618-11 Burial Grounds													○ M-16-66 Initiate Intermediate design and ASA for Remedial Actions																											
Groundwater																																								
Common																																								
100-HR-3																																								

M-24-51 thru -55  
M-24-51 09/05/01(A), M-24-52 09/29/01(A), M-24-54 10/18/01(A), M-24-53 55.11/08/01(A)  
Install 11 Monitoring Wells at SST WMA B-BX-B, U, S-SX, T-TX-TY  
M-24-00M 11/08/01(A)  
Install RCRA Groundwater Monitoring Wells at Rate from 0 to 50 In CY 2001 (if required)

M-24-56 12/18/02(A)  
Install 2 Monitoring Wells at SST WMA TX-TY  
M-24-00N 12/18/02(A)  
Install RCRA Groundwater Monitoring Wells at Rate from 0 to 50 In CY 2002 (if required)

M-24-57A 12/31/03(A)  
DOE Shall install a minimum of 15 Wells by 12/31/03

M-24-57B 08/30/04(A)  
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57C  
Conclude Negotiations & Revise M-24-57 by 08/01/04

M-24-57D  
DOE Shall Install a Cumulative of 30 Wells by 12/31/04

M-24-57E  
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57F  
Conclude Negotiations & Revise M-24-57 by 08/01/05

M-24-57G  
DOE Shall Install a Cumulative of 45 Wells by 12/31/05

M-24-57H  
DOE Initiates discussions Annually to Reaffirm Selected Wells

M-24-57I  
Conclude Negotiations & Revise M-24-57 by 08/01/08

M-24-57J  
DOE Shall Install a Cumulative of 60 Wells by 12/31/08

M-24-000 (TBD)  
Complete Well Installations with RCRA/CERCLA Groundwater Requirements

Major Milestone  
 Interim Milestone  
 Forecast  
 Complete  
 Unrecoverable  
 'At Risk'  
 (P) Pending Change Request  
 RCRA Permit Commitment

**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
Quarterly Presentation  
July 27, 2004**



**Greg Sinton, RL Project Lead  
Woody Russell, ORP Project Lead**

**Eric Van Mason, Ecology Lead**



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**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 27, 2004**

- **Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually**
  - LDR Report is designated as a primary document in accordance with the Tri-Party Agreement
- **The CY 2003 LDR Report (M-026-01N) was submitted to Ecology on April 28, 2004**
  - Ecology extended their review of the CY 2003 LDR Report so that an M-026 inspection can be conducted for the 241-CX Tank System Treatability Group (specifically the quality of the data used to generate the 241-CX data sheets)
  - Ecology comments are expected no later than September 14, 2004
  - Clarification questions were answered at the June LDR PMM.



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**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 27, 2004**

- Program Manager Meetings (PMMs) continue to be an effective tool for dialogue and as a venue to resolve outstanding actions outlined in the March 14, 2002, Resolution Agreement
  - One action remains open from the March 14, 2002, Settlement Agreement (Consolidation of Requirements Document)
  - Issues or concerns identified during the conduct of workscope or outyear activities are statused during the PMMs



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**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
July 27, 2004**

Actions Planned for Next Six Months

- Ecology approve CY 2003 LDR Report in accordance with the Tri-Party Agreement Action Plan, Chapter 9.0, *Documentation and Records*
- Publish and distribute CY 2003 LDR Report
- Identify system enhancements for CY 2004 LDR Report
- Continue the monthly PMMs focusing on requirements consolidation and PMM commitments/actions

Tri-Party Agreement M-91 Milestone Series  
Quarterly Presentation

G. L. Sinton  
U.S. Department of Energy,  
Richland Operations Office

July 27, 2004

M-91 Status Summary 7/27/04

Milestone	Due Date(s)	Status Summary	Comments
General Comments			<p>1) In this current table "On-Schedule" means it is anticipated the milestone will be met. At present the baseline is being revised to realign the scope/schedule to match the agreement. FH has submitted "baseline adjustment" information which is currently in RL review.</p> <p>2) M-91 requirements are extensive and continue well out into the future. This status table will generally only cover items due within about the next four years. A separate "Outyear table" identifies the other M-91 milestones, and the related M-16-93 milestone.</p>
M-91-03: Submit TRUM/MLLW PMP	12/31/03, 3/31/09, 3/31/13	On Schedule	<ul style="list-style-type: none"> <li>M-91-03 PMP approved by Ecology on May 12, 2004</li> </ul>
M-91-05-T01: Complete RH and or large TRUM retrieval Engineering Study/FDC	12/31/07	On Schedule (planning)	
M-91-12: CH-MLLW Thermal Treatment (600 m <sup>3</sup> cumulative)	12/31/05	Treatment capacity it not currently believed to be available to meet this milestone	<ul style="list-style-type: none"> <li>PMP was revised to show the existing milestone dates for thermal treatment in response to Ecology comments</li> <li>Two RFPs for additional thermal treatment capacity have been issued and responses are currently in review.</li> <li>Based on review of the responses to the RFPs the thermal treatment schedule will be re-evaluated based on all existing information. It is likely that a TPA Change request will be prepared proposing an alternative schedule.</li> <li>Discussions with Ecology on the thermal treatment schedule should begin in August.</li> <li>45 m<sup>3</sup> of CH-MLLW have been thermally treated as of the end of March that will count toward this milestone.</li> </ul>

M-91 Out-year Milestone Status Summary 7/27/04

Milestone	Due Date(s)	Status Summary	Comments
<b>General Comments</b>			1) This table is intended to identify the M-91 milestones that are not covered in the more detailed near term M-91 Status Summary Table. These milestones are generally those with due dates four or more years in the future.
<b>M-91-00:</b> Major Milestone for acquisition of needed facilities/capabilities for mixed and suspect MLLW, and TRUM and suspect TRUM.	TBD	On Schedule (planning)	
<b>M-91-01:</b> Facility/Capability Interim Milestone (RH and/or large container TRUM)	6/30/12	On Schedule (planning)	
<b>M-91-15:</b> RH MLLW and/or Large Size MLLW Treatment	6/30/08	On Schedule (Planning)	"COMPLETE ACQUISITION OF FACILITIES AND/OR CAPABILITIES AND INITIATE TREATMENT OF RH-MLLW AND CH MLLW IN BOXES AND LARGE CONTAINERS"
<b>M-91-41:</b> Retrieval and Designation of RH RSW (regardless of size)	See Comment column	On Schedule (Planning)	<ul style="list-style-type: none"> <li>• 1/1/11: Initiate retrieval of RH RSW</li> <li>• 12/31/14: Complete non-caisson RH RSW retrieval</li> <li>• 12/31/18: Complete 4B RH RSW retrieval</li> </ul>
<b>M-91-43:</b> Designation and treatment of RH and or Large Size MLLW	See Comment Column	On Schedule (Planning)	<ul style="list-style-type: none"> <li>• 12/31/08: Complete designation of RH MLLW and or Large Size MLLW in storage.</li> <li>• 6/30/08: Begin RH and or large size MLLW treatment at rate of 300 cubic meters per year</li> <li>• Treated 50.4 m<sup>3</sup> of MLLW-07 in March, bringing the total since 12/31/02 to 99.7 m<sup>3</sup></li> </ul>

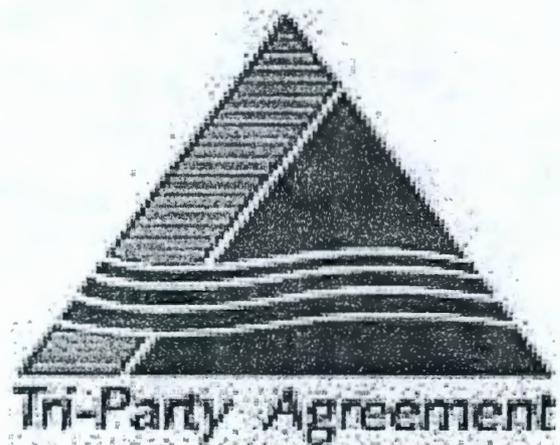
## Tri-Party Agreement M-91 Milestone Series Quarterly Presentation

### Actions Planned for Next Six Months

- Continue with MLLW treatment, RSW retrieval, and waste processing
- Finish realignment of baseline with M-91 and M-16 agreement change packages
- Award new Thermal Treatment contract(s)
- Begin thermal treatment schedule discussions with Ecology
- Submit revised Oct-Dec burial grounds sampling and analysis results report (July)
- Prepare 218-E-12B burial ground SAP (Submit to Ecology in August)

# Cesium/Strontium Capsule Dry Storage Project

## TPA Quarterly Review



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

07/27/04

# Cesium/Strontium Capsule Dry Storage Project

## Milestone Summary

- **TPA Milestone M-92-00**  
Compete acquisition of new facilities, modification of existing facilities necessary for the storage, treatment/ processing and disposal of Hanford site cesium and strontium capsules, bulk sodium and 300 area special case waste.
- **TPA Milestone M-92-01 – 12/31/2009**  
Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities and/or modification of planned facilities necessary for site wide consolidation, storage prior to commercial use, or treatment and/or repackaging by DOE TWRS (ORP).
- **TPA Milestone M-92-05 – 6/30/2007**  
DOE will assess the viability of directly disposing of Hanford Cs/Sr capsules at the National High-Level Waste Repository.

## Cesium/Strontium Capsule Dry Storage Project 6-Month Look Ahead

- Dry storage project cancelled due to allocation of funding to higher priority compliance projects.
  - Contract close-out discussion on-going with Transnuclear

# Special Case Waste 340 Building

- Completed the 340 complex portion of Tri Party Agreement Milestone M-92-16 (Complete removal and transfer and initiate storage of Phase III 300 Area Special Case Waste).
  - The tanks have been emptied to minimum heel similar as was done in B Plant and PUREX and subsequent evaporation has lowered the levels further to significantly below minimum heel levels. Ecology was given a tour and presentation showing how difficult it will be to remove these heels along with the unnecessary exposure there would be to the worker. DOE has agreed that the intent of this portion of the milestone has been met and has directed FH not to perform additional work. These tanks and heels will be dispositioned under M-94-01.
- Activities described in Project Management Plan HNF-5068, Revision 1A are deferred to the River Corridor Contractor as managed/directed under Tri Party Agreement Milestone M-94-04.
  - The PMP deliverables are the milestones M-92-14, -15, and -16. The intent of deferring to M-94-04 is to disposition the minimum heels in the vault tanks as part to the D&D program.
- Report of Closure submitted to WDOH for Permitted 340-A Building Tank solids removal activities pursuant to Washington Administrative Code 246-247-080(6).
  - The Report of Closure is required by WDOH to allow classifying the stack as a minor stack for emissions. This Report of Closure states that operations have permanently ceased in these tanks. EPA has agreed that current emissions warrant the minor stack classification. If direction is given in the future to remove the heels, the stack will be redesignated as a major stack. It is expected that the tanks with heels will be removed intact to be dispositioned in T-Plant during the D&D process.



## M-20 Milestone Review Permits and Closure Plans

Presented by:

Tony McKarns  
U.S. Department of Energy

July 27, 2004

### Closure Plan Milestone Status

**M-20-33**

**12/31/2005**

Submit 216-A-10 Crib, 216-A-36B Crib, 216-A-37-1 Crib, and 207-A South Retention Basin Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-PW-2 Uranium-Rich Process Waste Group Operable Unit (coordinate under M-15-43C)

**M-20-39**

**11/30/2005**

Submit 216-S-10 Pond and Ditch Closure/Postclosure Plans to Ecology in coordination with the Feasibility Study for the 200-CS-1 Chemical Sewer Group Operable Unit (coordinate under M-15-39C)

**M-20-54**

**12/31/2008**

Submit 241-CX-70 Storage Tank, 241-CX-71 Neutralization Tank, 241-CX-72 Storage Tank, 241-CX Storage Tank Closure/Postclosure Plan to Ecology in coordination with the 200-IS-1 Tanks/Lines/Pits/ Boxes Operable Unit Work Plan Feasibility Study scheduled under M-13-00M.

#### Current Milestone Status:

On schedule to meet milestones. The closure plans are to be integrated into the feasibility studies per the M-20 Milestones. DOE is actively working with the regulators on these integrations through the U Plant Waste Sites FFS and the 200-CW-1 FS.



### Accomplishments – last 3 months

- Ecology approved Part A permit applications for 1706-KE Water Treatment System (Rev. 5), Hexone Storage and Treatment Facility (Rev. 5), T Plant Complex (Rev. 10), 183-H Solar Evaporation Basins (Rev. 5A), 300 Area Process Trenches (Rev. 5A), Central Waste Complex (Rev. 7), and Waste Receiving and Processing Facility (Rev. 4).
- Ecology accepted the clean closure certification for 105-DR Large Sodium Fire Facility.
- Ecology responded to Class 1 modification for 9/30/2003, approving all modifications except those for Attachment 6, Hanford Well Maintenance and Inspection Plan.
- Ecology responded to Class 1 modification for 12/31/2003.
- Ecology denied Class 2 modifications pertaining to groundwater for the General Information Portion, LERF/ETF, 300 Area Process Trenches, and the 183-H Solar Evaporation Basins.
- Ecology reclassified Class 2 modifications for the Waste Treatment and Immobilization Plant as Class 3 modifications.



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### Planned Actions – next 6 months

- DOE and Ecology continue NOD workshops for the LLBG.
- DOE and Ecology begin NOD workshops for the DST permit application.
- DOE and Ecology negotiate a schedule to resubmit the T Plant Part B permit application.
- DOE and Ecology establish permitting path forward for CWC and WRAP.
- DOE and Ecology resolve comments on the groundwater portion of the 216-U-12 Crib Closure Plan, in conjunction with the proposed plan for the 200-UW-1 Operable Unit.
- DOE respond to Ecology requests on 9/30/2003 and 12/31/2003 Class 1 modification denials.
- DOE submit to Ecology 105-DR Large Sodium Fire Facility front page of Part A stamped "Closed" with current date.
- DOE submit groundwater monitoring plan for 1324-N Surface Impoundment and 1324-NA Percolation Pond.



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# **Hanford Spent Nuclear Fuel Project**

## ***Tri-Party Agreement M-34 Milestone Review***



***U.S. Department of Energy,  
Richland Operations Office  
Third Quarter FY 2004***

***July 27, 2004***

*Hanford Spent Nuclear Fuel Project*

**TPA Milestone Status**  
*Remaining Milestones Due Fiscal Year 2004-2009*

<b>Number</b>	<b>Milestone Title</b>	<b>Due Date</b>	<b>Status/Comments</b>
M-34-08	Initiate full scale K-East Basin sludge removal	12/31/2002	* Deleted, see note below
M-34-28	Complete removal of 1,619 MTHM from the K-West Basin	12/31/2003	Completed 1/13/04
M-34-25-T01	Complete transfer of K-East Basin SNF to K-West Basin	5/31/2004	Completed 7/1/04
M-34-18B	Complete removal of all K Basin SNF	7/31/2004	Projected completion 8/31/04
M-34-10	Complete sludge removal from K Basins	8/31/2004	* Deleted, see note below
M-34-23	Start K East water removal	9/30/2004	Planned to be met by removal of water from K East discharge chute
M-34-09-T01	Complete K Basins rack & canister removal	1/31/2005	* Deleted, see note below
M-34-24	Complete K-East Basin water removal	9/30/2005	* Deleted, see note below
M-34-21-T01	Initiate full-scale K-West Basin water removal	12/31/2005	* Date change, see note below
M-34-22	Complete K-West Basin water removal	8/31/2006	* Deleted, see note below
M-34-00A	Complete removal of K Basins and their content	3/31/2009	* Scope change, see note below

\* **NOTE:** Milestones and due dates are derived from the proposed Tri-Party Agreement Change Request M-34-04-01, which were based on the tentative agreement on Negotiations for Accelerations of K Basin Sludge Treatment and Disposal, Basin Remediation, and Delay in Sludge Retrieval signed by DOE-RL and EPA on April 29, 2004



*Hanford Spent Nuclear Fuel Project*

**TPA Milestone Status**  
***Remaining Milestones Due Fiscal Year 2004-2009***

<b>Number</b>	<b>Milestone Title</b>	<b>Due Date</b>	<b>Status/Comments</b>
M-034-30	Initiate Sludge Treatment	2/28/07	* Added, see note below
M-034-31	Complete Sludge Treatment	10/31/07	* Added, see note below
M-034-32	Complete removal of K East Basin Structure	3/31/07	* Added, see note below
M-034-33	Containerize K East Sludge; Sludge containerization initiation Sludge containerization complete	10/31/04 3/1/05	* Added, see note below
M-034-34	Complete removal of K East Sludge	1/31/06	* Added, see note below
M-034-35	Containerize K West Sludge	6/30/06	* Added, see note below

\* **NOTE: Milestones and due dates are derived from the proposed Tri-Party Agreement Change Request M-34-04-01, which were based on the tentative agreement on Negotiations for Accelerations of K Basin Sludge Treatment and Disposal, Basin Remediation, and Delay in Sludge Retrieval signed by DOE-RL and EPA on April 29, 2004**



## ***Significant Accomplishments and Status***

- **Fuel Removal**

- Completed transfer of containerized fuel from K East Basin to K West Basin (July 1, 2004)
- Shipped 43 Multi-Canister Overpacks (MCOs) from K West Basin to Cold Vacuum Drying Facility (CVDF) between April 15, 2004 and July 12, 2004

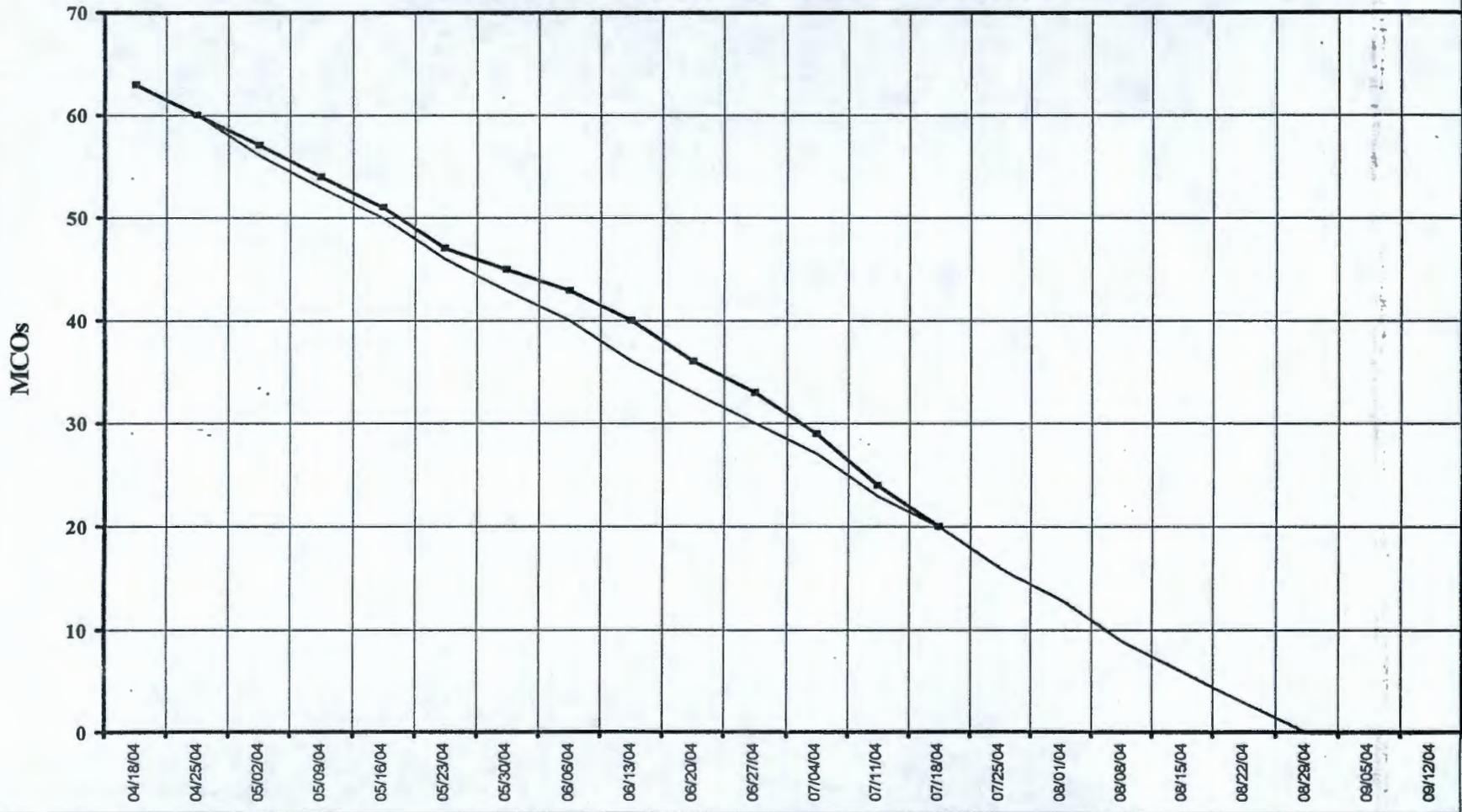
- **Process time improvement for MCO Shipments**

- 166 hours per MCO in March (5 MCOs shipped)
    - 68 hours per MCO in April (11 MCOs shipped)
    - 56 hours per MCO in May (13 MCOs shipped)
    - 52.75 hours per MCO in June (14 MCOs shipped)
    - 38.75 hours per MCO in July (7 MCOs shipped month to date in less than 2 full weeks)



# Significant Accomplishments and Status (continued)

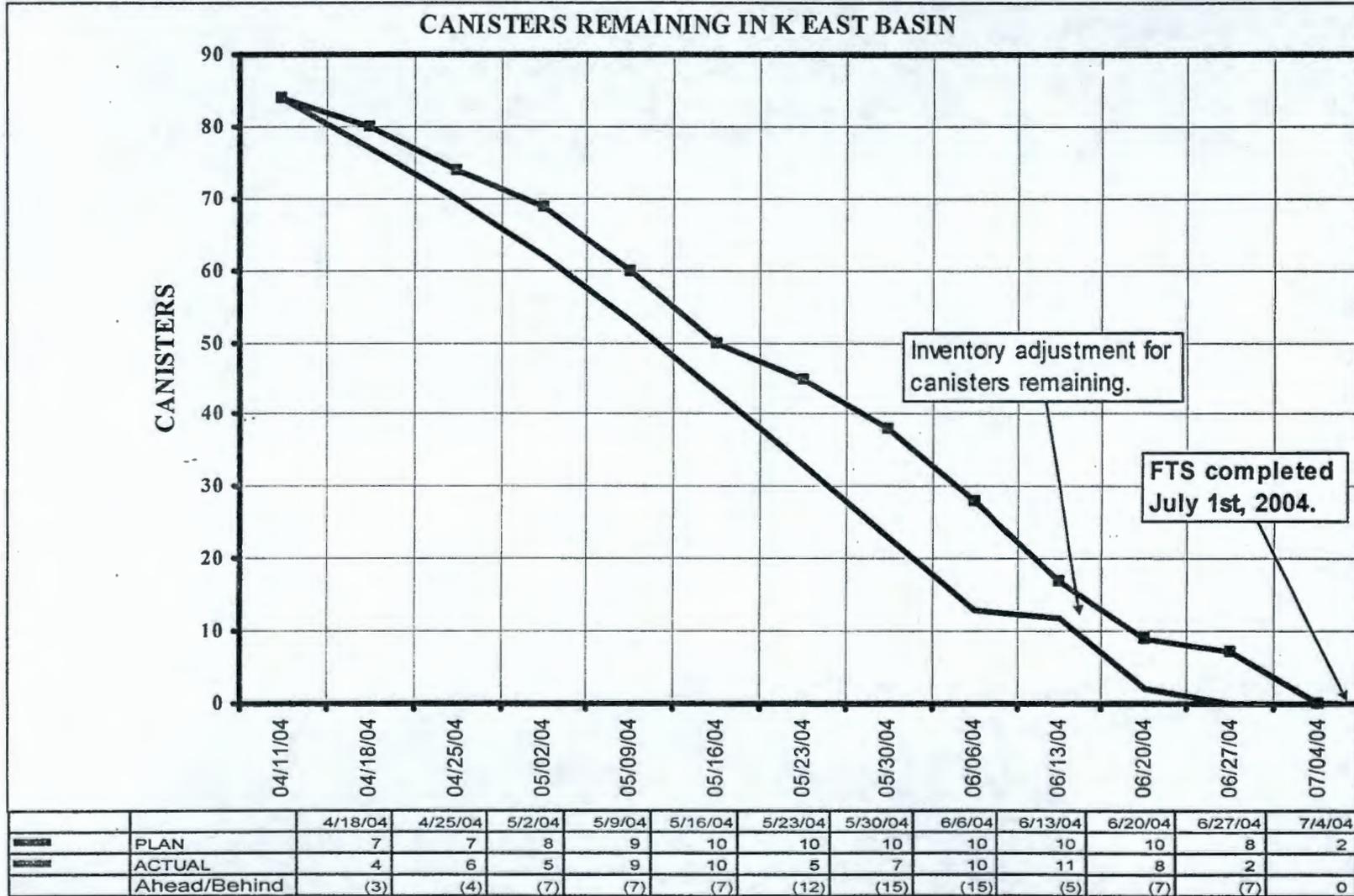
MCOs REMAINING TO BE LOADED WITH SNF



	4/25/04	5/2/04	5/9/04	5/16/04	5/23/04	5/30/04	6/6/04	6/13/04	6/20/04	6/27/04	7/4/04	7/11/04	7/18/04	7/25/04	8/1/04	8/8/04	8/15/04	8/22/04	8/29/04	9/5/04	9/12/04
PLAN	3	4	3	3	4	3	3	4	3	3	3	4	3	4	3	4	3	3	3		
ACTUAL	3	3	3	3	4	2	2	3	4	3	4	5	4								
Ahead/Behind	0	(1)	(1)	(1)	(1)	(2)	(3)	(4)	(3)	(3)	(2)	(1)	0								



# Significant Accomplishments and Status (continued)



# Significant Accomplishments and Status (continued)

MCOs REMAINING TO BE WELDED



	4/18/04	5/16/04	6/13/04	7/11/04	8/8/04	9/5/04	10/3/04	10/31/04	11/28/04	12/26/04	1/23/05	2/20/05	3/20/05	4/17/05	5/15/05	6/12/05	7/10/05	8/7/05	9/4/05
PLAN	238	225	211	197	187	178	160	151	133	115	106	88	70	56	43	25	7		
ACTUAL	210	194	183	174															
FORECAST	210	194	183	174	163	154	136	127	109	91	82	64	46	32	19	1			
Ahead/Behind				23															



## ***Significant Accomplishments and Status (continued)***

- **Sludge Removal and Disposition:**

- **Successfully completed contractor and DOE-HQ Operations Readiness Review (ORR) for North Loadout Pit (NLOP) sludge removal**
- **Initiated sludge removal into large diameter containers**
- **Completed fabrication of containers for K East Basin sludge containerization**
- **Issued Request for Interest (RFI) notice and conducted vendor forum for sludge stabilization and packaging contract**
- **Issued Request for Proposal (RFP) on July 12, 2004, to secure contractor for sludge stabilization and packaging**
  - ***Contract to be awarded in October 2004***



## ***Significant Accomplishments and Status (continued)***

- **Deactivation**

- **K East Basin Discharge Chute Grouting**

- Grouting contract for K Basins awarded May 3, 2004
- RD/RA Work Plan Supplement for K Basins Discharge Chute Grouting approved by EPA and RL on July 1, 2004
- Completed test pour mock-up fabrication and shipped to vendor site for initial testing observed by FH in June
- Issued technical report (HNF-D&D 21397, Rev 0) documenting *KE discharge chute past and current conditions demonstrating absence of fuel and sludge*

- **K East Basin Debris Removal**

- Installed size reduction tools and made significant progress in cutting and relocating debris to facilitate canister removal
- Completed demolition of existing waste load out station (Testing/Mock-ups performed in new load out station set up in 190-KE facility and will be installed in 105-KE)



## ***Upcoming Activities***

### **Fuel Removal**

- Complete removal of spent nuclear fuel in August 2004

### **Sludge Retrieval and Disposition**

- Continue K East NLOP sludge removal into LDCs
- Complete mock up testing on sludge containerization system
- Continue preparations to treat NLOP sludge
  - *Plan being revised to treat sludge at T Plant vs. 325 Facility*
- Revise K Basin CERCLA decision documentation to reflect accelerated sludge disposal pathway
  - *Focused Feasibility Study for the K Basins Interim Remedial Action*
  - *Proposed Plan K Basins Interim Remedial Action*
  - *Record of Decision*
- Submit remedial design changes for EPA approval
  - *K East Basin sludge containerization*
  - *K East to K West Basin sludge transfer*
  - *K West Basin floor and pit sludge containerization*
- Award sludge stabilization and packaging contact

### **Deactivation**

- Issue sludge removal end point criteria for EPA review and approval
- Complete contractor testing of grout mix/pour to qualify design; project observation of test pour and sawcutting
- Complete FH management Self-Assessment for Grouting the K East Discharge Chute
- Complete K East Dewatering Plan



## ***SNF Project Issues/Concerns***

### **Programmatic Issues:**

- Issuance of remote handled (RH) TRU waste acceptance criteria (WAC) for WIPP

### **Issue Resolution Status:**

- Draft RH TRU WAC has been prepared



## ***Performance Measurement Terminology***

### **BCWS (Budgeted Cost of Work Scheduled)**

- *BCWS represents the baseline budget for a scope of work over time. BCWS is normally combined with a term such as "Current Period" or "Fiscal Year to Date (FYTD)" to identify the time period the BCWS is associated with. BCWS is created by spreading the baseline cost estimate for a scope of work across its schedule activity duration based on the expected monthly level of activity. BCWS is the basis for the funding requested to perform a scope of work and is maintained through a documented change control process*

### **BCWP (Budgeted Cost of Work Performed)**

- *BCWP represents the value of the work actually accomplished during a period based upon its budgeted value or BCWS. BCWP is a measure of the value of work based upon the physical work reported complete per the baseline schedule status update*

### **ACWP (Actual Cost of Work Performed)**

- *ACWP represents the actual costs incurred to perform the work that was completed during a period and recorded as BCWP. For any particular period, ACWP includes accruals for costs not invoiced or booked associated with work that was performed during the period*

### **SCHEDULE VARIANCE (SV)**

- *SV represents the difference between the work actually accomplished and the work planned or scheduled during any particular time period. (SV= BCWP-BCWS) A positive SV reflects an ahead of schedule situation while a negative SV reflects that work is behind the scheduled plan*

### **COST VARIANCE (CV)**

- *CV represents the difference between the budgeted value of the work actually accomplished and the actual costs incurred to perform the work. (CV=BCWP-ACWP) A positive CV reflects the work being accomplished for less than its budgeted value and a negative CV reflects the work costing more to complete than planned*

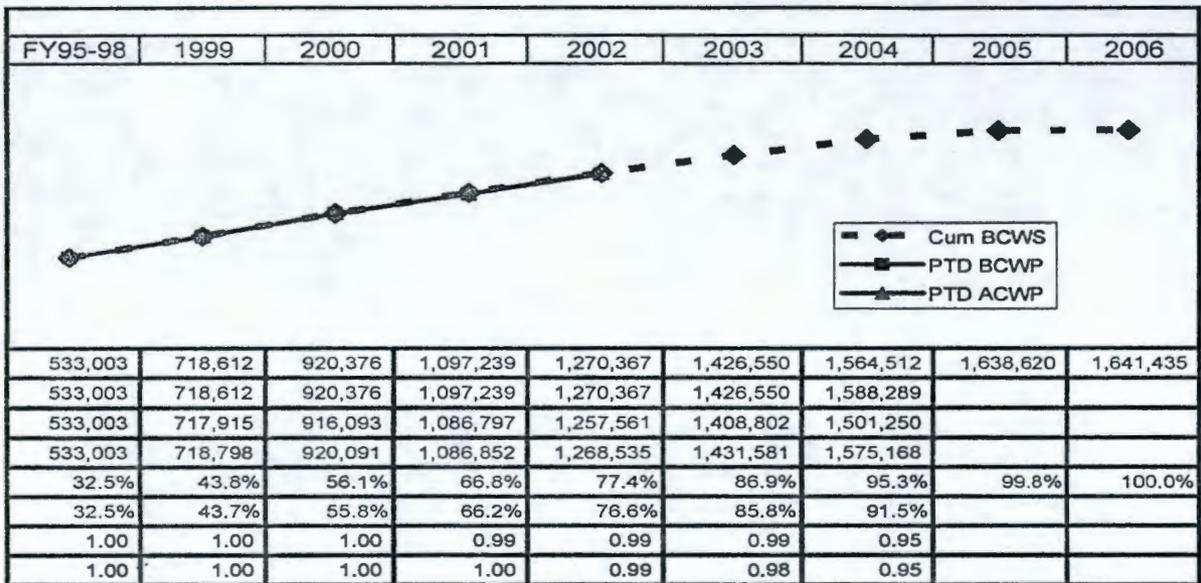
### **BAC (Budget at Completion)**

- *BAC represents the total baseline budget for a scope of work associated with either a fiscal year or life cycle. BAC is the summary of all monthly BCWS values for a scope of work within the fiscal year or life cycle. On a fiscal year end report the FYTD BCWS will equal the FY BAC*



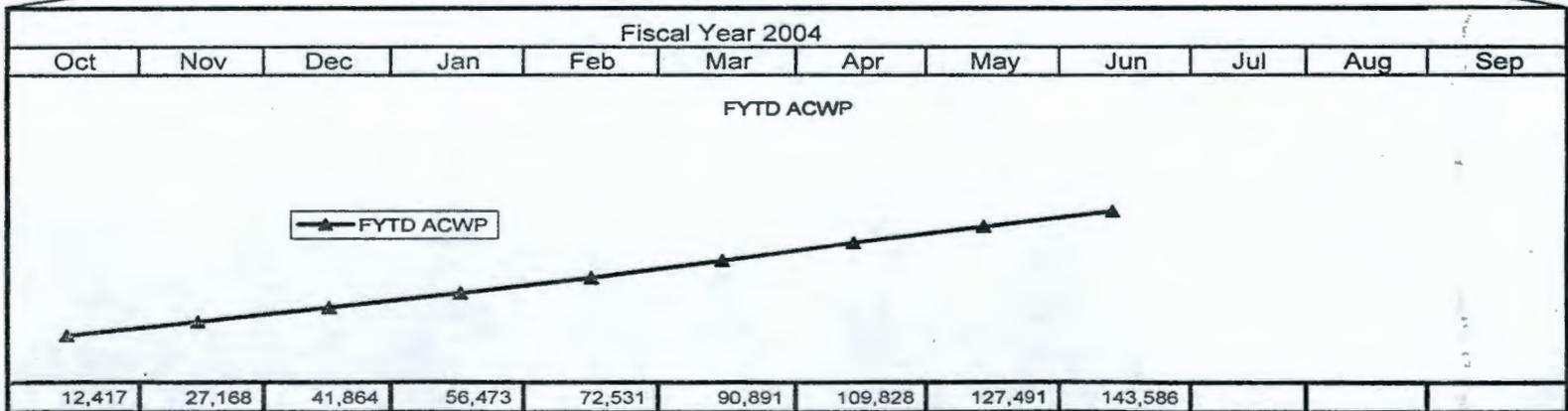
Hanford Spent Nuclear Fuel Project

**SNF Project – Total Project Baseline**



Life Cycle	
*BAC=	1,641,435
EAC=	1,641,435
BCWS=	1,588,289
BCWP=	1,501,250
ACWP=	1,575,168
SV=	(87,039)
CV=	(73,918)

\* Current BAC reflects a 10-month acceleration to the TPA completion date.



\* The Project is being rebaselined consistent with new performance agreements.

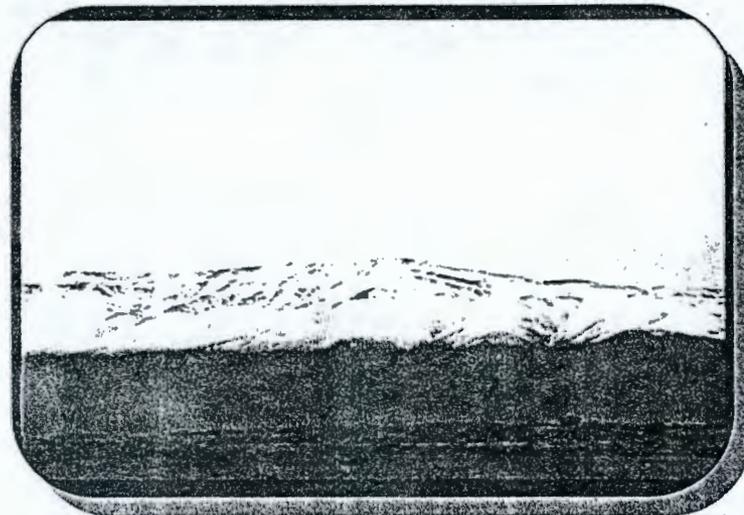
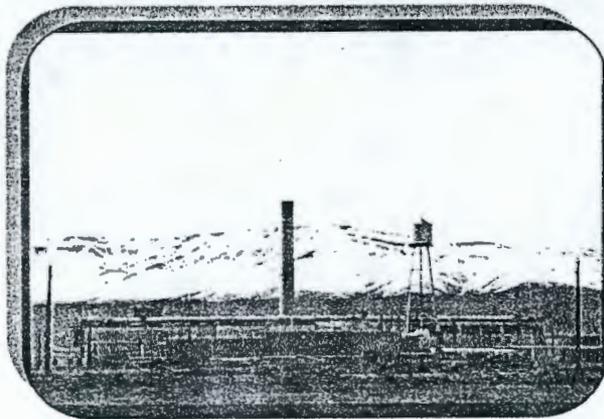


### SNF Stabilization and Disposition Project Performance through Third Quarter FY 2004

		(\$ in thousands) By PBS	<u>FYTD ACWP</u>
PBS RL-0012	Fuel and Operations		\$ 92,525
PBS RL-0012	Sludge Retrieval and Disposition		\$ 29,167
PBS RL-0012	D&D Deactivation		\$ 7,895
PBS RL-0012	Closure Services		\$ 13,999
<b>TOTAL</b>			<u>\$ 143,586</u>



# PFP Closure Project



## Milestone

## TPA-M-83

July 27, 2004  
Tri-Party Agreement Milestone  
Status Report

Ecology Project Manager - R. Bond  
DOE-RL Project Director – S. Charboneau  
FH Project Manager – M. B. Lackey  
FH Environmental – A. M. Hopkins

# M-83 Status for Interim Milestones Through 2006 (as of 6/30/04)

TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-31	6/30/05	DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS	On Schedule
M-083-14	9/30/06	COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL	On Schedule
M-083-40	9/30/06	COMPLETE TRANSITION AND DISMANTLEMENT OF 232-Z BLDG INCINERATOR	On Schedule

# Major Accomplishments

- Completed the transloading of all 5 Interim storage casks (ISCs) to Interim Storage Vaults (ISVs)
- Completed the repackaging of all 358 of the 3013 outer containers identified as having excess weld porosity
- Completed demolition of 4 PFP facilities (MO-834/839, 234-ZB and 234-ZC) and excessed 1 building (MO-264).
- Currently 32% complete for legacy hold-up removal and disposition.
- Analytical and Standards Labs cleanout continues with 14 hoods completed
- The completion of cleanout activities in the 232-Z chemical mix room has allowed this room to be down posted to a Radioactive Material Area status
- Implemented the D&D Documented Safety Analysis (DSA)

## **Planned Activities**

- **Ecology approval of the Data Quality Objective and the Sampling Analysis Plan for 232-Z**
- **EPA approval of the 232-Z Action Memo**
- **Transmit to Ecology the 232-Z Removal Action Work Plan**
- **Transmit to Ecology the Balance of Plant EE/CA and the DQO and SAP for Balance of Plant.**

# Schedule / Cost Performance

## Fiscal Year to Date Status (\$000s)

PROGRESS BASE	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-11 PFP Closure Project	\$90,409	\$84,948	\$83,970	(\$5,461)	-6.0%	\$978	1.2%	\$132,370
Closure Services	\$15,382	\$15,382	\$14,831	\$0	0.0%	\$551	3.6%	\$31,976
<b>TOTAL</b>	<b>\$105,790</b>	<b>\$100,329</b>	<b>\$98,800</b>	<b>(\$5,461)</b>	<b>-5.2%</b>	<b>\$1,529</b>	<b>1.5%</b>	<b>\$164,346</b>

*Status through June 2004 month end*

# PHMC Schedule / Cost Performance

## Fiscal Year to Date Status

### **FYTD Schedule Variance, Progress Base (\$5.5M):**

- The unfavorable FYTD schedule variance is due primarily to the behind schedule performance in D&D activities. The behind schedule D&D progress is primarily due to earlier issues related to NDA portable plutonium holdup measurements which have now been resolved. As anticipated, the delayed D&D work has caused an unfavorable variance in solid waste operations as well.

### **FYTD Cost Variance, Progress Base \$1.5M:**

- The favorable cost variance is due to early completion of stabilization processing, noted maintenance and solid waste operation efficiencies which have been offset somewhat by unfavorable costs in D&D work progress performed to date (i.e., NDA measurement issues, DSA implementation impacts, etc.). The positive cost variance in Closure Services is a result of projected closure services efficiencies that may be offset with the seasonal maintenance activities and fab services outsourcing and uncosted system upgrades which are in development.

# Issues

## ■ Regulatory Issue:

- 232-Z NOC

## ■ Non-Regulatory Issues:

- Decision on Consolidation of Nuclear Material