

Meeting Minutes  
February 1, 2005  
Tri-Party Agreement Milestone Review

0065706

Approval: *Michael A. Wilson* Date: 6/28/05  
for **Michael A. Wilson** (H0-57)  
Ecology IAMIT Representative

Approval: *Matthew S. McCormick* Date: 6/28/05  
**Matthew S. McCormick**, Chairperson (A5-11)  
RL IAMIT Representative

Approval: *Jim E. Rasmussen* Date: 6/28/05  
for **Jim E. Rasmussen** (H6-60)  
ORP IAMIT Representative

Approval: *Nick Ceto* Date: 6/28/05  
**Nick Ceto** (B1-46)  
IAMIT Representative

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Minutes Prepared by:

Approval: *Eileen Murphy-Fitch* Date: 6/25/05  
**Eileen Murphy-Fitch** (A4-25)  
Fluor Hanford, Inc.

EDMC

Aromi, E. S.	CHG	H6-08	LaRue, D. N.	BHI	H0-20
Bartus, D.	EPA	H0-57	Leary, K. D.	RL	A6-38
Bohnee, G.	NPT		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
Ceto, N.	EPA	B5-01*	Moy, S. K.	RL	A6-38
Charboneau, B. L.	RL	A6-33	Murphy-Fitch, E. J.	FH	A4-25*
Charboneau, S. L.	RL	A5-11	Niles, K. S.	Oregon	
Cimon, S.	Oregon		Olinger, S.	ORP	H6-60
Cusack, L.	Ecology	H0-57*	Pak, Paul	RL	A5-16
Dagan, E. B.	RL	A5-15	Piippo, R. E.	FH	A4-25
Dusek, L.	FH	R3-62	Price, J.	Ecology	H0-57
Erickson, L.	RL	A3-04	Rasmussen, J. E.	ORP	H6-60
Faulk, D.	EPA	B1-46	Romine, L. D.	RL	A6-33
Faulkner, D.	RL	A5-11	Schwier, J.	RL	A7-27
Foley, B. L.	RL	A6-38	Schepens, R. J.	RL	H6-60
Ford, B. H.	FH	E6-35	Skinnarland, E. R.	Ecology	H0-57
Fritz, L.	FH	H8-12	Sobotta, P.	NPT	
French, M.	RL	A6-38	Sinton, G.	RL	A6-38
Gadbois, L.	EPA	B1-46	Thompson, S.	FH	H8-12
Gallagher, R.	FH	H5-20	VanMason, E.	Ecology	H0-57
Harris, S.	CTUIR		Watson, D.	FH	X3-79
Hayn, B.	CTUIR		Wilde, R.	FH	H8-44
Hedges, J.	Ecology	H0-57	Williams, J. D.	FH	H8/49
Hertz, J. S.	FH	A4-25	Winterhalder, J. A.	FH	E6-35
Hildebrand, R. D.	RL	A6-38	Wilson, M. A.	Ecology	H0-57
Hopkins, A.	FH	H8-25	Administrative Record	EDMC	H6-08*
Huffman, L.	RL	A5-15	*w/Attachments File		
Jackson, D. E.	RL	A4-52			
Jackson, G. W.	FH	H5-20			
Jim, R.	YIN				
Langstaff, D. C.	RL	A4-70			

**Central Plateau  
Tri-Party Agreement Milestone Review  
February 1, 2005**

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Lori Huffman was introduced as the Acting Director of the Office of Environmental Services. Ms. Huffman will be the Acting Director for the next six months. Mr. Briant Charbonneau will become the OES Acting Director in the June/July 2005 timeframe. Matt McCormick, Assistant Manager for the Central Plateau, will be the RL representative to the Inter Agency Management Integration Team (IAMIT).

**K Basin Closure Project (Tri-Party Agreement Milestone M-034-00)**

Start: 10:02 a.m.

Stop: 10:20 a.m.

Sludge containerization (Tri-Party Agreement Milestone M-034-33B) will not be completed by the March 31, 2005, Tri-Party Agreement due date. The quantity of debris mixed with the sludge in the K East Basin Weasel Pit and the discovery of cracks in the basin structure are impacting schedule and causing the expenditure of resources. A recovery plan/path forward is underway and will be discussed with EPA. RL stated that based on on-going nuclear safety evaluation and engineering analysis, there appears to be no structural concerns related to the wall cracks inspected to date.

The initial assessment of canisters shipped to ERDF based on earlier identified waste characterization issues was completed. Of the 357 boxes shipped, 333 boxes have passed the first and second screening; the remaining 24 canisters are undergoing more detailed screenings. EPA took exception to the use of "passed" for the first and second screenings and asked that RL provide them with the data/information that supports that position.

Action: EPA requested that they be provided the rationale/basis that the 333 boxes passed the first and second screening and are no longer an issue.

Actionee: David Faulkner, RL

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

Start: 10:28 a.m.

Stop: 11:00 a.m.

Groundwater Remediation

Thirty-eight groundwater monitoring wells were installed during CY 2003 and 2004, exceeding the cumulative 30 wells agreed to under Tri-Party Agreement Interim Milestone M-024-57D. The draft Treatability Test Plan for Fixation of Chromium in the Groundwater at 100-K was submitted in December 2004 and approved in January 2005. Discussions will be initiated with Ecology in March 2005 to identify/propose/prioritize the wells to be installed for the next four years (execution year plus three outyears). Discussion continues on the adequacy of the characterization of the downstream extent of the hexavalent chromium plume.

Action: Determine the impacts of reduced funding in FY 2005 on groundwater monitoring/remediation. Provide results to EPA and Ecology.

Actionee: Mike Thompson, RL

Facilities and Waste Site Remediation

RL and Ecology are beginning a series of workshops to address Ecology's concern on the completeness of the 200-SW-1 and 200-SW-2 RI/FS Work Plan that was submitted in December 2004 completing Tri-Party Agreement Major Milestone M-013-00M. Accomplishments include completion of characterization boreholes, regulator acceptance of the Proposed Plan for the Canyon Disposition Initiative for U Plant Canyon Building (221-U), and, issuance of the U Plant Ancillary Action Memorandum.

Issue resolution continues for the land use assumptions and risk assessment scenarios presented in 200-PW-2/200-PW-4 RI Report; proposed milestones for U Plant underground pipelines; scope of the 200-SW-1/200-SW-2 Work Plan; finalization of Waste Sites ROD Strategy; and, method and schedule for transition facilities in S&M to CERCLA. The availability of

resources for document reviews, approval of the B Plant and PUREX stack downgrades, and the 209-E Facility potential to emit were also discussed.

Action: Determine the impacts of reduced funding in FY 2005 for waste sites.  
Provide results to EPA and Ecology

Actionee: Larry Romine, RL

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

Start: 10:20 a.m.

Stop: 10:28 a.m.

Tri-Party Agreement Interim Milestone M-083-31, *Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms*, was completed well ahead of the June 30, 2005, due date. Remaining Tri-Party Agreement milestones are scheduled for early completion. Accomplishments include removal and disposal of 55% of legacy holdup; demolished 2904-ZA (the 8<sup>th</sup> of 10 PFP Facilities to be demolished by September 2006); 12 entries into PRF; RCRA closure of the LLW HA-20MB glove box; approval of the deactivation notice of construction; and, placement of the 232-Z Demolition Project under the requirements of CERCLA.

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

Start: 11:20 a.m.

Stop: 11:25 a.m.

The CY 2004 Land Disposal Restriction (LDR) Report was approved by Ecology November 23, 2004 and distribution is underway. Work was initiated on the CY 2004 LDR Report scheduled for completion by April 30, 2005 (Tri-Party Agreement Interim Milestone M-026-01O). Matt McCormick asked Ecology and EPA if they would entertain moving away from the LDR Report given the information is available in other documents (e.g., M-091 Project Management Plan) or possibly changing the frequency of submittal. Follow-on discussions will occur.

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

Start: 11:25 a.m.

Stop: 11:36 a.m.

Contracts were awarded to Permafrix and PEcoS for thermal treatment. Five shipments of thermal treatment waste were shipped to Permafrix (82 m<sup>3</sup> cubic meters); when treated, Tri-Party Agreement Interim Milestone M-091-12A will be complete. As of January 24, 2005, 1855 m<sup>3</sup> were retrieved. A total of 3355 m<sup>3</sup> has been treated as of December 31, 2004. Anticipate that the backlog will be completed by 2009.

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

Start: 11:36 a.m.

Stop: 11:48 a.m.

Capsule disposition into the national repository is still being negotiated (Tri-Party Agreement Interim Milestone M-092-05, due June 30, 2007). Refined repository waste acceptance criteria is not anticipated until 2010. Once accepted for repository, Hanford capsules will be "last in line" following commercial fuel, INEEL, Hanford and SRS spent fuels, Hanford HLW, then other HLW as approved. Studies are complete that show the capsule(s) meet thermal and corrosion requirements for safe repository storage. Engineering studies are complete and provide the basis for justifying storage in a national repository. Basic documentation addressed known repository storage requirements for 2003.

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

Start: 11:48 a.m.

Stop: 11:55 a.m.

The status and planned accomplishments for Permits/Closure Plans was presented.

# Groundwater Remediation



# CENTRAL PLATEAU MILESTONE REVIEW



*Tri-Party Agreement*

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

February 1, 2005

# Milestone Status

<b>TPA Number</b>	<b>Commitment Date</b>	<b>Milestone Title</b>	<b>Status</b>
M-24-57D	12/31/04	DOE Shall Install a Cumulative of 30 Wells by 12/31/04	Complete
M-24-57E	06/30/05	DOE Initiates Discussions Annually to Reaffirm Selected Wells	Ahead of Schedule
M-24-57F	08/01/05	Conclude Negotiations and Revise M-24-57 by 08/01/05	Ahead of Schedule
M-24-57G	12/31/05	Doe Shall Install a Cumulative of 45 Wells by 12/31/05	Ahead of Schedule
M-24-57H	06/30/06	DOE Initiates Discussions Annually to Reaffirm Selected Wells	On Schedule
M-24-57I	08/01/06	Conclude Negotiations and Revise M-24-57 by 08/01/06	On Schedule
M-24-57J	08/01/06	Doe Shall Install a Cumulative of 60 Wells by 12/31/06	On Schedule
M-24-00	TBD	Complete Well Installations in Accordance with RCRA/CERCLA Requirements	-----

# Major Accomplishments

- Thirty-eight groundwater monitoring wells were installed during calendar years 2003 and 2004, exceeding the cumulative 30 wells agreed to in Tri-Party Agreement (TPA) Milestone M-24-57D
- The Draft *Treatability Test Plan for Fixation of Chromium in the Groundwater at 100-K* was submitted to EPA for review on 12/30/04
- Initiated reconfiguration of the 100-HR-3 extraction/injection well system at the 100-H Area in December 2004
- The RCRA Quarterly Groundwater Monitoring Report for April-June 2004 was submitted on schedule to Ecology and EPA on 11/03/04
- Annual Hanford Seismic Report for fiscal year 2004 was distributed on 12/03/04

# Major Accomplishments (continued)

- Revised Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit (OU) was submitted on 12/08/04 and approved by EPA on 01/11/05
- Draft report, "Contaminants of Potential Concern at 300-FF-5" was provided to EPA on 12/13/04. This report updates findings from the early 1990s, and will support the CERCLA 5-year ROD review and the uranium plume FFS
- A 2-D cross section reactive transport model of the 300 Area uranium plume was completed on 10/28/04, to simulate and evaluate the impact of aquifer versus river-water chemistry on uranium mobility

# Planned Activities

## Next 3 – 6 Months

- Issue final RI/FS Work Plan for the 200-UP-1 Groundwater OU – March 2005
- Complete design for the 200-ZP-1 Groundwater OU pump and treat expansion – expected February 2005
- Continue implementing remedial investigations within the 200-UP-1 and 200-ZP-1 Operable Units – ongoing
- Finalize the Treatability Test Plan for 100-KR-4 – February 2005
- Implement the Treatability Test Plan for 100-KR-4 – July 2005
- Complete and transmit the July-September 2004 RCRA Groundwater Monitoring Quarterly Report to Ecology – February 2005

# Planned Activities

## Next 3 – 6 Months

(continued)

- Transmit revised 200-PO-1 OU Sampling & Analysis Plan to Ecology – March 2005
- Transmit the final report, “Hanford Site Groundwater Monitoring for Fiscal Year 2004 to EPA and Ecology, Tribes, stakeholders, and the public – March 2005
- Continue laboratory and modeling investigations of uranium in groundwater at the 300 Area to support the 300-FF-5 ROD and CERCLA 5-Year Review – ongoing
- Meet with EPA to discuss 200-BP-5 OU RI/FS schedule – February/March 2005

# Groundwater Schedule/Cost Performance

## Fiscal Year to Date Status (\$Ms)

		<b>Budgeted Cost of Work Scheduled</b>	<b>Budgeted Cost of Work Performed</b>	<b>Actual Cost of Work Performed</b>	<b>Schedule Variance \$</b>	<b>Schedule Variance %</b>	<b>Cost Variance \$</b>	<b>Cost Variance %</b>	<b>Budget At Completion</b>
<b>RL-0030</b>	Soil & Water Remediation - Grndwtr/Vados	\$9.1	\$6.9	\$7.6	(\$2.2)	(23.9%)	(\$0.7)	(10.2%)	\$47.2
	<b>Total</b>	<b>\$9.1</b>	<b>\$6.9</b>	<b>\$7.6</b>	<b>(\$2.2)</b>	<b>(23.9%)</b>	<b>(\$0.7)</b>	<b>(10.2%)</b>	<b>\$47.2</b>

# Issues

## Regulatory Issues

- EPA does not agree that characterization of the downstream extent of the hexavalent chromium plume at 100-KR-4 was met
  - Further discussion will occur during a February meeting

## Non-Regulatory Issues Potentially Impacting TPA Milestones

- No non-regulatory issues identified at this time

# Project Manager's Assessment

- Environmental – Good
- Safety – Excellent
- Budget – Concern
- Schedule -- Good

# FACILITIES AND WASTE SITE REMEDIATION



# Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
<b>M-13-00</b>	<b>Submit Work Plans for RI/FS or RFI/CMS Studies</b>		
M-13-00O	12/31/04	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan for the 200-SW-2 OU	Comp per RL Behind per Ecology
<b>M-15-00</b>	<b>Site Investigations / Feasibility Studies</b>		
M-15-40C	10/31/04	Submit Draft A 200-CW-5 Pond/Z Ditches Cooling Water Group FS	Complete
M-15-46A	10/31/05	Submit 200 Area Chemical Laboratory Waste OUs RI Report	On Schedule
M-15-39C	11/30/05	Submit Draft A 200-CS-1 Chemical Sewer Group FS and Proposed Plan	On Schedule
M-15-43C	12/31/05	Submit 200-PW-2 OU Feasibility Study/Proposed Plan & Permit Mod	On Schedule
M-15-44A	12/31/05	Submit 200-MW-1 OU Remedial Investigation Report	On Schedule
M-15-45A	06/30/06	Submit Plutonium/Organic-Rich OU Remedial Investigation Report	On Schedule
M-15-46B	09/30/06	Submit 200 Area Chemical Laboratory Waste OUs FS	On Schedule
M-15-44B	12/31/06	Submit 200-MW-1 OU Feasibility Study and Proposed Plan	On Schedule
M-15-45B	09/30/07	Submit Plutonium/Organic-Rich OU Feasibility Study 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	-----
<b>M-16-00</b>	<b>Remedial Design / Remedial Action</b>		
M-16-67	03/31/07	Submit Design Report, Schedule, and Work Plan for 618-10 and 618-11	-----
M-16-00	09/20/24	Complete Remedial Actions for all Non-Tank Farm Operable Units	-----
<b>M-20-00</b>	<b>Submit Closure Plans for all RCRA TSD Units</b>		
M-20-39	11/30/05	Submit 216-S-10 Pond and Ditch Closure Plan to Ecology	On Schedule
M-20-33	12/31/05	Submit 216-A-10/216-A-36B/216-A-37-1 Crib Closure/Post Closure Plans	On Schedule

# Major Accomplishments

- The following documents were submitted on the dates noted below:
  - 200-CW-5/200-CW-2/200-CW-4 and 200-SC-1 Rev. 0 Feasibility Study and Proposed Plan – 10/29/04
  - 200-UW-1 Draft C Feasibility Study and Proposed Plan – 11/29/04
  - 200-CS-1 Rev. 0 Remedial Investigation report – 11/30/04
  - 200-SW-1/200-SW-2 Draft A consolidated Work Plan – 12/20/04
  - 200-IS-1/200 ST-1 Rev. 1 Work Plan – 12/22/04
- The following characterization boreholes were completed as noted below:
  - 216-Z-7 Crib borehole – 12/29/04; information will support development of RI report and 200-PW-2/200-PW-4 FS and Proposed Plan due 12/31/05

# Major Accomplishments (continued)

- 216-U-3 French Drain borehole – 12/20/04; information will support development of the 200-MW-1 RI report due 12/31/05
- 216-T-28 Crib borehole – 12/02/04; information will support development of 200-LW-1 RI report due 10/31/05
- BC Cribs and Trenches geophysical characterization data, in conjunction with the 216-B-26 borehole sampling results, support the conclusion that a groundwater impact is not imminent
- Proposed Plan for the Canyon Disposition Initiative for the U Plant Canyon Building (221-U) was accepted by the regulatory agencies; public comment period ended on 1/31/05
- U Plant Ancillary Action Memorandum was issued 11/23/04, and field work has begun

# Planned Activities

## Next 3 – 6 Months

- Resolve issues associated with Ecology comments on 200-PW-2/200-PW-4 RI report and issue Rev. 0 – targeted April 2005
- Begin collaborative discussions with Ecology on scope of the 200-SW-1/200-SW-2 Draft A Work Plan – February 2005
- Submit 200-UR-1 Rev. 0 Work Plan to Ecology – Feb/March 2005
- Submit 200-UW-1 Rev. 0 Feasibility Study and Proposed Plan to Ecology – March 2005
- Conduct 200-PW-1 carbon tetrachloride dispersed vadose zone plume remedial investigation field activities (e.g., passive soil vapor survey's) – continuing
- Complete drilling of the vertical well (C3426) at 216-Z-9 – January 2005

# Planned Activities

## Next 3 – 6 Months (continued)

- Perform additional geophysical characterization (high resolution resistivity) and associated ground truthing in the BC Cribs and Trenches area – continuing
- Transition all work associated with the 618-10 and 618-11 Burial Grounds to the new River Corridor contractor – upon contract award
- Perform U Plant Ancillaries removal action – initiated & ongoing
- Ecological sampling for CP ecological risk assessment – initiated
- Support EPA and Ecology in ROD development for CDI – schedule discussions to be initiated in February 2005.

# Waste Sites Schedule/Cost Performance Fiscal Year to Date Status (\$000s)

	BCWS	BCWP	ACWP	SV \$	CV \$	SV %	CV %	BAC
4.1.2.5.1 - 200 NPL Common Source Assessment	269.1	296.5	308.7	27.4	(12.2)	10.2%	(4.1%)	1,673.7
4.1.2.5.2 - 200-BP1-1 Hanford Prototype Barrier	6.8	6.8	2.8	0.0	4.0	0.0%	59.4%	31.1
4.1.2.5.3 - 200-CS-1 Chemical Sewer Group	91.4	61.7	0.8	(29.7)	60.9	(32.5%)	96.6%	342.9
4.1.2.5.5 - 200-CW-1 Gable Mtn/B Pond CWG	0.1	0.0	1.5	(0.1)	(1.5)	(69.8%)	(3741.8%)	64.7
4.1.2.5.6 - 200-CW-5 U Pond/Z-Ditches CWG	6.7	10.6	36.6	4.2	(27.9)	62.3%	(257.7%)	104.0
4.1.2.5.7 - 200-PW-1 Pu-Rich Waste Group	707.3	226.0	288.4	(481.3)	(62.4)	(68.0%)	(27.6%)	2,266.8
4.1.2.5.8 - 200-PW-2 Uranium-Rich Process	208.3	261.9	367.1	53.6	(105.2)	25.8%	(40.2%)	443.6
4.1.2.5.9 - 200-TW-1 Scavenged Waste Group	28.6	0.0	5.6	(28.6)	(5.6)	(100.0%)	0.0%	91.6
4.1.2.5.10 - 200-IS-1 Tanks/Boxes/Pits/Lines Group	3.1	19.8	68.0	16.7	(48.1)	539.7%	(242.9%)	1,321.7
4.1.2.5.11 - 200-UR-1 Unplanned Releases Waste Group	0.0	3.3	6.4	3.3	(3.1)	0.0%	(94.7%)	0.0
4.1.2.5.12 - U Plant Regional Closure	707.3	317.7	669.5	(389.6)	(351.7)	(55.1%)	(110.7%)	4,876.8
4.1.2.5.13 - B/C Cribs, Trenches & Cntl Area Remediation	466.0	246.0	216.5	(219.9)	29.6	(47.2%)	12.0%	2,182.6
4.1.2.5.14 - 200-LW-1 200A Chem Lab Waste Group	83.3	220.4	566.1	137.1	(345.8)	164.6%	(156.9%)	256.8
4.1.2.5.15 - 200-MW-1 Misc. Waste Group	111.3	232.0	202.8	120.7	29.2	108.4%	12.6%	290.8
4.1.2.5.16 - 200-SW-1 Non-Radioactive Landfills & Dump Group	19.0	77.7	81.7	58.7	(4.0)	309.7%	(5.1%)	850.4
4.1.2.5.19 - Burial Ground Sampling & Analysis	170.1	168.3	42.5	(3.8)	123.9	(2.2%)	74.5%	396.9
<b>Total</b>	<b>2,878.4</b>	<b>2,147.1</b>	<b>2,867.2</b>	<b>(731.3)</b>	<b>(720.0)</b>	<b>(25.4%)</b>	<b>(33.5%)</b>	<b>15,194.7</b>

# Issues

- Land use assumptions and risk assessment scenarios presented in 200-PW-2/200-PW-4 Remedial Investigation report – discussions continue to support April issuance of RI report
- Disagreement over proposed milestones for remediation of U Plant underground pipelines – further discussion expected
- Disagreement over scope of 200-SW-1/200-SW-2 RI Work Plan – collaborative discussions begin February 2005
- Finalization of Waste Sites ROD Strategy with Tri-Parties and, as necessary, realignment of TPA Milestones
- Method and schedule for transitioning facilities in Surveillance & Maintenance to CERCLA activity needs to be established

# Issues (continued)

- EPA resources continue to be challenged with potential to delay the review of documents for much of this year
- B Plant (EPA approved, WDOH has not) and PUREX (neither EPA nor WDOH have approved) stack downgrades
- 209-E Facility potential to emit (major versus minor stack) issue for which an ALARACT demonstration is being performed to resolve

# Project Manager's Assessment

- Environmental – Good
  - Safety – Excellent
  - Budget – Concern
  - Schedule -- Good

# **Hanford K Basins Closure Project**

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



***U.S. Department of Energy,  
Richland Operations Office  
First Quarter FY 2005***

***February 1, 2005***

Hanford Spent Nuclear Fuel Project

## **TPA Milestone Status**

### **Remaining Milestones Due Fiscal Year 2004-2009**

Number	Milestone Title	Due Date	Status/Comments
M-34-33	Containerize K East Sludge, All K East Sludge is placed in containers Sludge containerization initiation (10/31/2004) Sludge containerization complete (03/01/2005)	As Specified in descriptive text of this milestone	Sludge containerization was initiated on 10/31/2004. Sludge containerization completion by 03/01/2005 will not be met. See issues.
M-34-21-T01	Initiate full scale K West Basin water removal.	12/31/2005	On schedule.
M-34-34	Complete removal of K East Sludge.	01/31/2006	On schedule.
M-34-35	Containerize K-West Sludge All K West Sludge is placed in containers.	06/30/2006	On schedule.
M-34-30	Initiate Sludge Treatment This interim milestone will be complete following treatment and packaging of the first unit of sludge into a form that is certifiable for disposal offsite.	02/28/2007	On schedule.
M-34-32	Complete Removal of the K East Basin Structure This interim milestone will be complete when spent nuclear fuel, sludge, debris and water are removed from the K East Basin and the upper building and concrete basin are removed.	03/31/2007	On schedule.
M-34-31	Complete Sludge treatment This interim milestone will be complete following treatment and package of all sludge for disposal offsite.	10/31/2007	On schedule.
M-34-00A	Complete removal of the K Basins and their contents. Note: Unless otherwise noted, the term "K Basins" is used to denote both K East and K West Basins. This milestone will be complete when both K East and K West Basins, spent nuclear fuel, sludge, debris, and water are removed.	03/31/2009	On schedule.



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

### **Sludge Removal and Disposition**

Relocated sludge and debris in the Tech View Pit and Weasel Pit of K East basin to make room for installation of sludge containers. Weasel Pit cleanout still in progress.

Completed installation of sludge containers in the K East Basin except for those planned for the Weasel Pit.

Initiated containerization of K East Basin sludge on October 31, 2004.

Placed contract with BNFL on November 16, 2004 for the design, procurement, installation, and operation of the K Basin sludge treatment and packaging system.

Completed loading the first large diameter container (LDC) of K East Basin North Loadout Pit Sludge and transferred LDC to T Plant on January 5, 2005.

Completed design of the system for transferring the K East Basin sludge to the K West Basin that also included sludge retrieval proof in principle testing that was conducted at the 305 Building using a surrogate material.

### **Debris Removal and Disposition**

Removed over 200 long handled tools once used for fuel removal operations from each of the K East and K West Basins

Initiated removal and size reduction of underwater fuel storage racks in the center and west bays of the K West Basin to make room for the sludge containers to be installed there.

Shredder was delivered for size reduction of underwater hoses and cables along with a washer for cleaning the shredded debris.

Completed the initial assessment of canisters shipped to ERDF based on earlier identified waste characterization issues. Of the 357 boxes of canisters shipped, 333 boxes passed the first and second screening. Subsequent and more detailed screenings are pending the laboratory analysis results on other canisters for more detailed isotopic ratio definition.



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

### **K Basin Deactivation and Demolition**

Completed demolition of existing 105KE load-out station.

DOE-RL approved grouting the K West Basin discharge chute.

Initiated documentation to confirm the condition of the K West Basin discharge chute to define its grouted configuration.

Began the process of defining the functions and requirements for the demolition of the basin as well as the contract specifications for the upcoming procurement action for demolition of the K East Basin.

Issued a "Request for Interest" to identify vendors interested in bidding on the demolition, removal and transport to burial of the K East Basin and received 12 replies of interest.

Initiated development of the DQO/SAP for disposal of the 105KE Sand Filter.

Fabricated 30 "baskets" for the sludge project for 105KE debris gathering and/or removal.

Completed the 30 percent design of the hydrolasing spoils recovery system and submitted the statement of work for the remaining design and fabrication for approval.



## ***Upcoming Activities***

### **Fuel Removal**

- Collect and stage "Found Fuel" scrap for removal

### **Sludge Retrieval and Disposition**

- Continue K East NLOP Sludge Removal into LDCs
- Install sludge containers in the K East Basin Weasel Pit
- Complete installation of flocculation system in K East Basin to enhance the sludge containerization process
- Transfer K East Basin floor sludge into the sludge containers in the Weasel Pit.
- Initiate facility modifications at T Plant for the treatment and packaging of K East Basin NLOP sludge
- Perform in process design reviews of the sludge treatment and packaging process.
- Complete the design of the K West Basin to CVDF sludge transfer system.

### **Debris Removal**

- Debris is being removed. Shipments to ERDF are on hold while issues associated with the SAP are resolved.
- Remove and size reduce racks once used for storage of fuel in the K West Basin.
- Remove and size reduce debris from the K East Basin to support the planned demolition approach, i.e. grout and remove.



## ***Upcoming Activities (continued)***

### **Deactivation**

- Complete two value engineering sessions, one on basin demolition and one on basin water quality.
- Conduct a vendor information exchange forum on K East Basin demolition prior to initiating formal procurement action.
- Delivery of the cutting arm and garnet collection system and development of the installation and testing work package.
- Release the hydrolasing head and pressure system statement of work.
  
- Issue a D&D functions and requirements (F&R's) document associated with the demolition of the K East.
- Initiate work to remove transite siding for interior and exterior walls at the K East Basin.

### **CERCLA and Regulatory Documentation**

- Issue Proposed Plan Revision and Focus Feasibility Study-Addendum for use in amending the K Basin CERCLA ROD.
- Initiate and complete the public review cycle of the proposed CERCLA ROD changes defined in the Proposed Plan Revision.
- Prepare the DQO and SAP used for characterization of K East Basin demolition waste.
- DOE-RL and EPA approval of the K Basin End Point Criteria
- Initiate preparation of the remedial design report and remedial action work plan for the sludge treatment and packaging process as well as the demolition of the K East Basin.



## ***KBC Project Issues/Concerns***

### **Programmatic Issues:**

- Issuance of remote handled (RH) TRU waste acceptance criteria (WAC) for WIPP
- Timely issuance of the K Basin CERCLA ROD amendment prior to May 25, 2005
- QA Program for the management of K Basin waste
- Discovery of previously unknown conditions in the K East Basin are impacting schedule and causing the expenditure of resources that had not been planned.
  - (a). Quantity of debris mixed in with the sludge in the K East Basin Weasel Pit
  - (b). Discovery of cracks in the basin structure on December 28, 2004 that had been earlier covered up by sludge and debris, e.g. the Weasel Pit walls, has led to evaluations of the hazards, consequences, and risks to the worker and public per DOE's codified nuclear safety rules under 10CFR830.

### **Issue Resolution Status:**

Draft RH TRU WAC has been prepared

- Public review cycle for K Basin CERCLA ROD amendment is scheduled to run from January 19 to February 22. Traditional post ROD documents, e.g. remedial design report and remedial action may have to be submitted to EPA in advance of ROD amendment to maintain schedule.
- FH has initiated action to add definition to the K Basin Closure Project QA Program Plan for those aspects associated with the management of waste following its generation.
- Previously unknown conditions are being addressed in timely and responsible manner:
  - (a). Debris and sludge continues to be removed from the Weasel Pit.
  - (b). Pending completion of a video inspection of the Weasel Pit floor, sludge containers will still be installed at this location. Based on on-going nuclear safety evaluation and engineering analysis, there is no structural concern related to the wall cracks inspected to date.



## **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)**

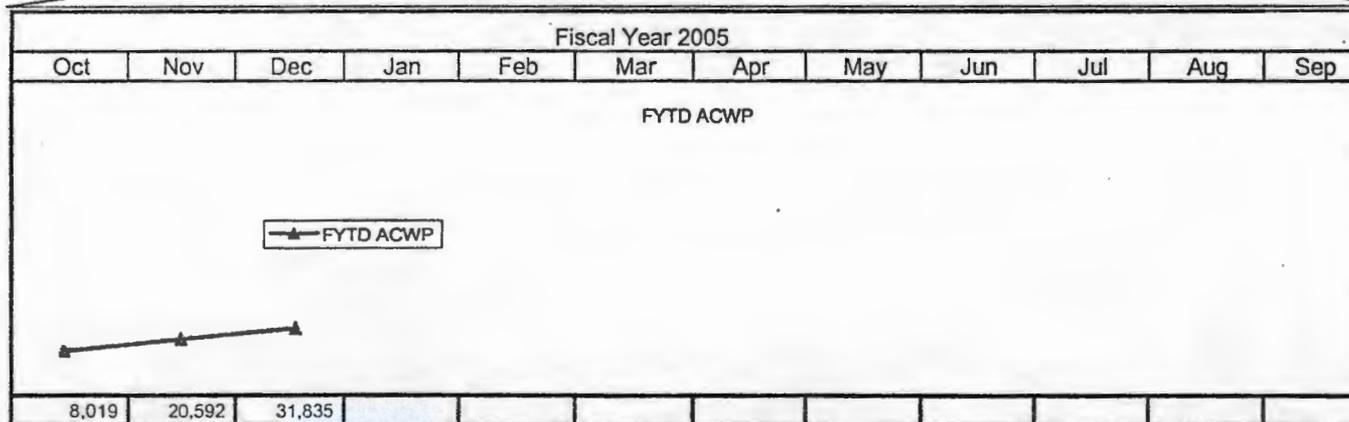
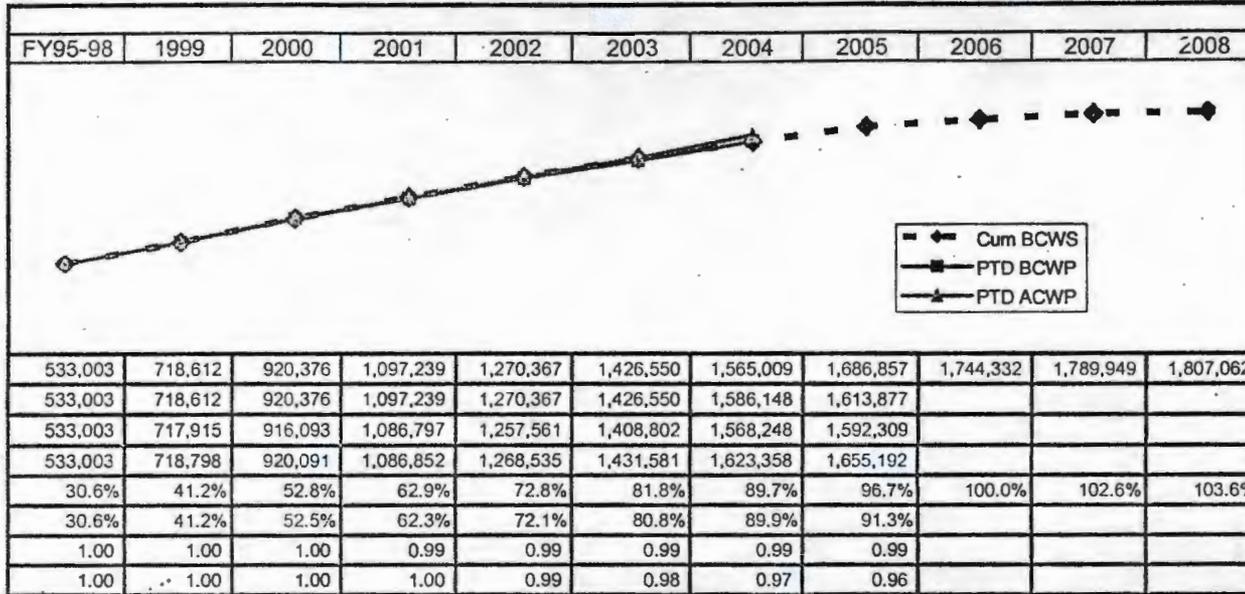
- *CV represents the difference between the budgeted value of the work actually accomplished and the actual costs incurred to perform the work. ( $CV = BCWP - ACWP$ ) A positive CV reflects the work being accomplished for less than its budgeted value and a negative CV reflects the work costing more to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



# KBC Project – Total Project Baseline



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



## ***KBC Stabilization and Disposition Project Performance through First Quarter FY 2005***

		(\$ in thousands)	<u>FYTD</u> <u>ACWP</u>
		<b>By PBS</b>	
PBS RL-0012	Fuel and Operations		\$ 13,634
PBS RL-0012	Sludge Retrieval and Disposition		\$ 13,123
PBS RL-0012	D&D Deactivation		\$ 1,727
PBS RL-0012	Closure Services		\$ 3,351
<b>TOTAL</b>			<u>\$ 31,835</u>





## M-20 Milestone Review Permits and Closure Plans

Presented by:

Tony McKarns  
U.S. Department of Energy

February 1, 2005

### 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 EPA and Ecology on these integrations through the U Plant Waste Sites FFS and the 200-CW-1 FS.



### Hanford Facility RCRA Permit Status

- The Hanford Facility RCRA Permit expired on 9/27/04. On 9/1/04, Ecology concurred that the DOE package submitted for Permit renewal was sufficiently complete per WAC 173-303-840(1)(b) to begin preparing a draft permit. DOE continues to operate under the current Hanford Facility RCRA Permit, until a new Permit is in effect.
- Central Waste Complex, Waste Receiving and Processing Facility, and T Plant Complex are waiting a decision on offsite shipments and Ecology's acceptance of the SW EIS.
- 222-S Laboratory Complex is waiting Ecology's acceptance of the SW EIS, before proceeding.



### Accomplishments – last 3 months

- DOE submitted Class 1 modifications to Ecology for quarter ending 12/31/04.
- DOE submitted to Ecology the Closure/Postclosure Cost report 10/31/04.
- Ecology issued a final RCRA Permit for the Bulk Vitrification Unit (effective 1/12/05)



### Planned Actions – next 6 months

- DOE submit to Ecology the Annual Noncompliance Report by 3/1/05.
- DOE submit Class 1 modifications to Ecology for quarter ending 3/31/05.
- DOE and Ecology complete NOD workshops for the DST Part B application by 4/05.
- DOE will submit modified IDF part B application
- DOE submit groundwater monitoring plan for 1324-N Surface Impoundment and 1324-NA Percolation Pond.
- DOE and Ecology continue NOD workshops for the LLBG.
- 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.



### Planned Actions – next 6 months (cont.)

- Ecology develop draft Hanford Facility RCRA Permit.
- Ecology respond to Class 1 modifications submitted for quarter ending 3/31/04, 6/30/04, 9/30/04, and 12/31/04.
- Ecology issue NOD comments for the Immobilized High Level Waste Interim (IHLW) Storage Unit Part B permit application. NOD workshops scheduled to begin 12/31/05.
- Ecology approve closure of the 1324-N Surface Impoundment and 1324-NA Percolation Pond.
- Ecology and DOE resolve comments on the closure plan for the 216-B-3 TSD unit, in conjunction with the CERCLA feasibility study for the 200-CW-1 and 200-CW-3 operable units.
- Ecology provide NOD comments for:
  - SST System Closure Plan, Revision 2
  - Immobilized High-Level Waste Storage Unit (IHLW) Part B permit application
- Ecology issue Permit conditions for the Integrated Disposal Facility (IDF).
- Ecology provide comments on the Draft Waste Encapsulation Storage Facility (WESF) Part B Permit Application, Revision 0.



**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
Quarterly Presentation  
February 1, 2005**



**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)  
February 1, 2005**

- Tri-Party Agreement requires that a Hanford Site Land Disposal Restrictions (LDR) Report be submitted annually
- The CY 2003 LDR Report was approved by Ecology on November 23, 2004 (M-026-01N)
  - Distributed the CY 2003 LDR Report in January 2005
- Initiated CY 2004 LDR Report preparations
  - Contractor input was due January 21, 2005
  - Submit the CY 2004 LDR Report (M-026-01O) no later than April 30, 2005



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**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
February 1, 2005**

- PMMs continue to be an effective tool for dialogue and as a venue to resolve outstanding actions
  - 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 stated during the PMMs



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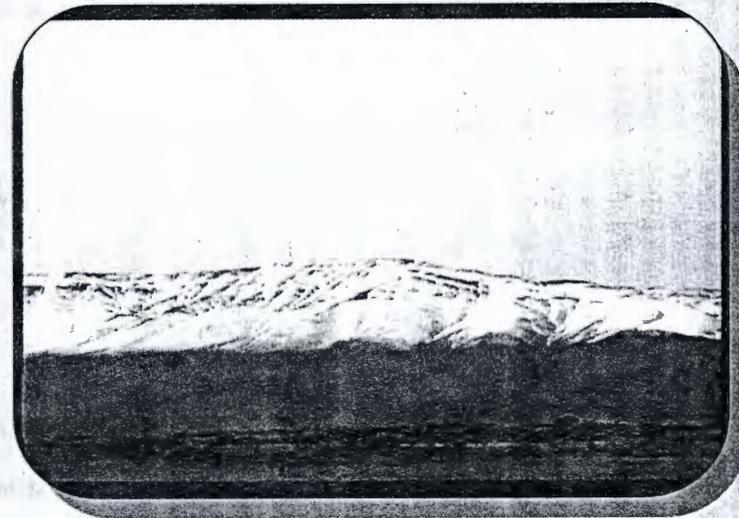
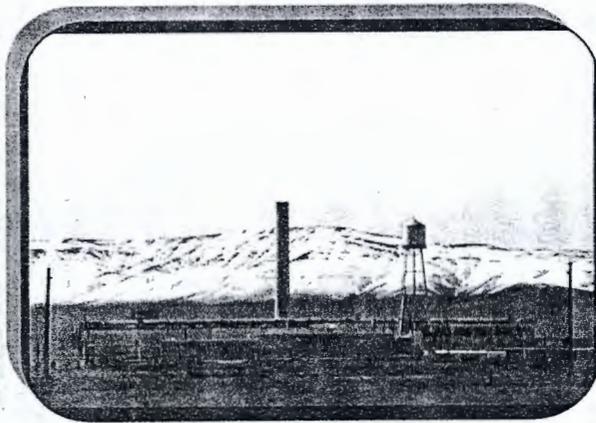
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**Land Disposal Restrictions Report  
(Tri-Party Agreement Milestone M-26-01)  
February 1, 2005**

Actions Planned for Next Six Months

- Submit the CY 2004 LDR Report by April 30, 2005 (M-026-010)
- Continue the monthly PMMs focusing on requirements consolidation and PMM commitments/actions

# PFP Closure Project



## Milestone

## TPA-M-83

February 2005  
Tri-Party Agreement Milestone  
Status Report

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

# M-83 Status for Interim Milestones Through 2006 (as of 12/30/04)

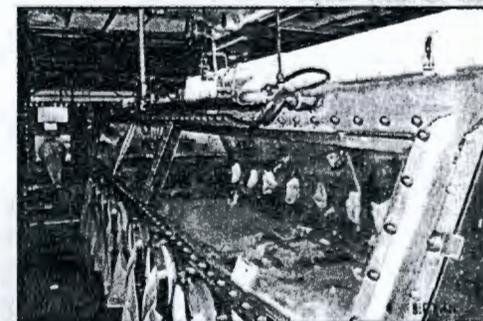
TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-31	6/30/05	DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS	<i>Complete</i>
M-083-14	9/30/06	COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL	Ahead of Schedule
M-083-40	9/30/06	COMPLETE TRANSITION AND DISMANTLEMENT OF 232-Z BLDG INCINERATOR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

# Major Accomplishments

- Completed removal and disposition of 55% of legacy hold-up
- Completed demolition of 2904-ZA, the 8<sup>th</sup> of 10 PFP facilities to be demolished by 9/06
- Twelve entries into Plutonium Reclamation Facility (PRF) canyon were completed
- Completed last transfer from 241-Z to Tank Farms on 11/08/04 and completed M-083-31, isolation to Tank Farms on 12/08/04
- Completed RCRA closure of the LLW HA-20MB glovebox on October 28, 2004



*South Canyon Airlock Cleanup*



*HA-20MB*

## Major Accomplishments

- Deactivation Notice of Construction (NOC) was approved December 28<sup>th</sup> by RL, EPA and Washington State Department of Health (WDOH) superseding 9 existing NOCs
- On December 17, 2004, the final documents were approved by RL and Ecology to place the 232-Z Demolition Project under the requirements of CERCLA

## **Planned Activities**

- **Above-Grade Structures EE/CA Comment Response**
- **Above-Grade Structures Action Memo**
- **Above-Grade Structures Removal Action Work Plan**
- **DQO and SAP for the Above-Grade Structures**
- **Ecology Approval of HA-20MB Clean Closure**
- **Submittal of the HA-20MB Part A, Form 3**

# Schedule / Cost Performance

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

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Cost Variance \$	Budget At Completion
RL-11 PFP Closure Project	\$38.3	\$34.0	\$31.0	-\$4.3	\$3.0	\$181.9
Closure Services	\$7.4	\$7.4	\$8.1	\$0.0	-\$0.7	\$33.7
<b>TOTAL</b>	<b>\$45.7</b>	<b>\$41.4</b>	<b>\$39.1</b>	<b>-\$4.3</b>	<b>\$2.3</b>	<b>\$215.6</b>

*Status through December 2004 month end*

# PHMC Schedule / Cost Performance

## Fiscal Year to Date Status

### **FYTD Schedule Variance (\$4.3M):**

- The unfavorable FYTD schedule variance is due primarily to packaging and shipment of SNM due to delay in authorization to ship, 232-Z D&D activities impacted by higher than anticipated volume of loose debris and requirements for process equipment removal, 241-Z cover block issues, design/constructability issues associated with pencil tank removal, solid waste disposal activities and D&D program management/Operations Support activities behind due to delayed D&D activities, delays in startup of box counter; partially offset by progress on D&D activities to transition 234-5Z

### **FYTD Cost Variance \$2.3M:**

- Favorable cost variance due to use of existing lab team to accelerate process equipment removal activities, no costs received for disposition of waste through December, lower cost in transition operations support due to a reduction in additional staff ramp-up required to support D&D activities and lower than planned support costs (consumables) for D&D, under accrual on box counter procurement; partially offset by legacy hold-up continued charges during fissile movement outage and use of overtime to recover schedule and increased Regulatory Compliance support

# Issues

## ■ Regulatory Issues:

- None

## ■ Non-Regulatory Issues:

- Decision on Consolidation of Nuclear Material

Tri-Party Agreement M-91 Milestone Series  
Quarterly Presentation

G. L. Sinton

U.S. Department of Energy,  
Richland Operations Office

February 1, 2005

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

### Significant Accomplishments of Last Three Months:

- Ecology and DOE approved changes to the M-91-12/12A thermal treatment milestones October 4, 2004
- FHI awarded thermal treatment contracts to Permafix and PEcoS
- Completed five shipments of thermal treatment waste to Permafix (82 cubic meters): Enough to meet M-91-12A, when treated
- Retrieved 509 m<sup>3</sup> of RSW since the last quarterly report (9/30/04-1/24/05), bringing the total to 1855 m<sup>3</sup> as of 1/24/05
- Finalized 218-E-12B SAP (Ecology approval 1/20/05)
- Treated 398 m<sup>3</sup> of M-91-42 MLLW (Oct-Dec), bringing the total to 3355 m<sup>3</sup> as of 12/31/04.

M-91 Status Summary 1/25/05

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.</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 three years. A separate "Outyear table" identifies the other M-91 milestones.</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)	11/16/07	On Schedule	<ul style="list-style-type: none"> <li>The milestone schedule was revised based on currently available information concerning available treatment capacity including the responses to recent RFPs. A revised milestone schedule was approved by Ecology and DOE on October 4, 2004.</li> <li>162 m<sup>3</sup> of CH-MLLW have been thermally treated as of the end of November that will count toward the M-91-12/12A milestones.</li> </ul>
M-91-12A: CH-MLLW Thermal Treatment (240 m <sup>3</sup> )	9/30/05	On-Schedule	<ul style="list-style-type: none"> <li>See M-91-12 comments</li> <li>FHI has awarded a contract with Permafix for thermal treatment of MLLW. The fifth shipment under this contract left that Hanford site for PermaFix on December 14<sup>th</sup></li> </ul>

			<p>bringing the total shipped to Permafix in FY05 to 82.45 cubic meters. This provides enough waste to meet the M-91-12A milestone, when treated. Under the contract PermaFix has up to 9 months to treat the waste and return the residues. M-91-12A will be met ahead of schedule, depending on actual turn-around time at Permafix.</p> <ul style="list-style-type: none"> <li>The PEcoS thermal treatment contract was awarded on December 6<sup>th</sup>, which should provide additional capacity assuming the PEcoS system is successfully permitted and becomes operational.</li> </ul>
<p><b>M-91-40:</b> Retrieval and designation of CH-RSW (regardless of size)</p>	<p>2700 m<sup>3</sup> cumulative retrieved by 12/31/05 and annual retrieval volumes through 2010 plus various other requirements</p>	<p>On Schedule</p>	<ul style="list-style-type: none"> <li>Fourth quarterly SAP report was submitted to Ecology December 16, 2004. (No new data).</li> <li>218-E-12B SAP was approved by Ecology January 20, 2005.</li> <li>218-W-3A and W-4B SAPs in preparation.</li> <li>1855 m<sup>3</sup> of RSW retrieved as of 1/24/05.</li> <li>Reached 1200 cubic meters retrieved four months ahead of the 12/31/04 due date. Completion letter transmitted to Ecology 12/7/04</li> </ul>
<p><b>M-91-42:</b> Treatment of non-large size CH-MLLW</p>	<p>Annual treatment requirements through 12/31/09</p>	<p>On Schedule (or ahead of schedule)</p>	<ul style="list-style-type: none"> <li>3355 m<sup>3</sup> of the MLLW subject to this milestone (MLLW-2 through MLLW-10 excluding MLLW-7) has been dispositioned as of the end of December. (3260 m<sup>3</sup> required by 12/31/05)</li> <li>Note: The M-91-42 progress quantity indicated above currently only includes waste dispositioned by FH. The actual progress numbers may be slightly higher due to waste subject to the milestone treated by other contractors. These numbers are from the M-91 tracking system and have not yet been validated.</li> <li>Ahead of schedule due to successful 183-H project.</li> <li>The quantities in this milestone are based on the 2002 LDR</li> </ul>

			report. Therefore, the cumulative volumes toward meeting this milestone are based on a start date of 12/31/02 (LDR report inventory date).
<b>M-91-45:</b> RH and or Large Size Waste Annual Report	9/30/04 and annually thereafter	On Schedule	<ul style="list-style-type: none"> <li>The 2004 report was submitted to Ecology 9/30/04</li> </ul>
<b>M-16-93:</b> Submit implementation workplan for acquisition of capabilities necessary to prepare TRU/M waste generated by CERCLA clean-up actions at Hanford for disposal at WIPP	9/30/2006	On Schedule (Planning)	<ul style="list-style-type: none"> <li>The date of this milestone seems somewhat early. IT may be better to align it with the M-15-00 12/31/08 complete RI/FS for all operable units milestone.</li> </ul>

Fn: M-91 PMM Status table1-25-05

M-91 Out-year Milestone Status Summary 1/25/05

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>

<b>M-91-44:</b> Designation of Newly Generated and Stored RH and or Large Size Transuranic Waste	See Comment Column	On Schedule (Planning)	<ul style="list-style-type: none"><li>• Designate all RH and or large size transuranic waste in storage by 12/31/12</li></ul>
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Fn: M-91 PMM Status Table Outyears1-25-05

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

## Actions Planned for Next Six Months

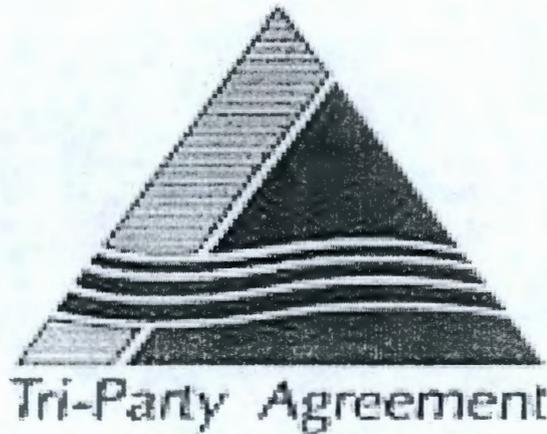
- Continue with MLLW treatment, RSW retrieval, and waste processing on schedule
- Meet M-91-12A ahead of schedule
- Begin disposal of non-TRU retrieval waste in ERDF
- Finalize 218-W-4B and 218-W-3A SAPs
- Submit SAP quarterly reports

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

## Issues

- None

Cesium/Strontium Capsule Dry Storage Project  
TPA Quarterly Review



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

02/01/05

# Cesium/Strontium Capsule Dry Storage Project Milestone Summary

- **TPA Milestone M-92-00**

Complete 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.

# Cs/Sr Capsule Dry Storage Project

- M-92-01 Completed
- Closure letter is being prepared for transmittal

## **Action:**

**Provide Ecology with the basis for disposing Cs/Sr capsules at Yucca Mountain. Ecology has requested this information for at least a year but have not received a response from RL yet.**

# Response

- Matt McCormick did meet with Ms Cusack on the subject.
- Points discussed
  - RL would look at the application Yucca Mountain submits to NRC.
  - Application was to be submitted December 2004.
  - RL will do an analysis comparing the requirements in the application with the current configuration of the capsules to see if they are within the safety envelope for disposal.

From MOA between EM and RW - Disposition of DOE SNF or HLW that does not meet acceptance criteria shall be agreed to by Office of Civilian Radioactive Waste Management (RW) and EM in accordance with the following:

- **Nonconforming DOE SNF or HLW ( i.e., capsules)** To request RW acceptance of nonconforming DOE SNF or HLW, EM shall submit an action plan for correction or disposition for review and approval. The action plan must adequately identify and describe the nonconformance, any action to change or correct the nonconformance and an evaluation of how the nonconformance will impact CRWMS requirements.
- RW shall either approve or disapprove the action plan within four (4) months of receipt.
  - Approval by the EM and RW Administrators, and it becomes part of the records package to which the action plan applies.
  - Disapproval shall be accompanied by an explanation.

Disposition of DOE SNF or HLW that does not meet acceptance criteria shall be agreed to by RW and EM in accordance with the following

- **Nonstandard DOE SNF or HLW** - After approval of the action plan, RW will advise EM within four (4) months as to the technical feasibility of accepting nonstandard DOE SNF or HLW according to the Integrated Acceptance Schedule, and any schedule adjustment for such services.
- EM shall implement the approved actions and document in the records package that the action plan has been completed.
- EM shall bear such responsibility for any costs which RW may incur in connection with acceptance of nonstandard DOE SNF or HLW.

# Cs/Sr Capsule Disposal M-92-05

- Capsule disposal in national repository still to be negotiated. (TPA M-92-05)
- Refined repository waste acceptance criteria is not anticipated until 2010.
- Once accepted for repository, Hanford capsules will be “last in line” following commercial fuel, INEEL, Hanford and SRS spent fuels, Hanford HLW, then other HLW as approved.
- Studies have been completed to show the capsules meet thermal and corrosion requirements for safe repository storage.

# Cs/Sr Capsule Disposal M-92-05

- Engineering studies have been completed. These studies provide basis for justifying storage in national repository. Basis documentation addressed known repository storage requirements for 2003. Studies are as follows:
  - WMP-17265, Rev. 0, Summary Report for Capsule Dry Storage Project
  - WMP-16938, Rev. 0, Capsule Characterization Report for Dry Storage Project
  - WMP-19637, Rev. 0, Corrosion Report for Dry Storage Project
  - WMP-16940, Rev. 0, Thermal Analysis of a Dry Storage Concept for Capsule Dry Storage Project

# Cs/Sr Capsule Disposal M-92-05

- Basis documentation is summarized as follows:
- WMP-16938: Thermal aging, corrosion, radiation, and other potential degradation processes had minimal impact on structural integrity of the capsules.
- WMP-19637: Corrosion rates are negligible after 5 years.
- WMP-16940: Thermal requirements meet 2540 Watt limit for repository

# 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 PMP 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.