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River Corridor/K-Basins Closure
Tri-Party Agreement Milestone Review
Meeting Minutes
March 20, 2008

Approval: _____ Date: 4/17/08
J. Hedges (H0-57)
Ecology IAMIT Representative

Approval: _____ Date: 4/17/08
M.S. McCormick (A5-11)
DOE IAMIT Representative

Approval: Craig Cameron for Date: 4/17/08
N. Ceto (B1-46)
EPA IAMIT Representative, Chairperson

Minutes Prepared by: _____ Date: 4/17/08
T.W. Noland (H8-12)
Fluor Federal Services, Inc.

Ayres, J.M.	Ecology	H0-57
Bignell, D.T.*	WCH	H4-25
Bilson, H.E.	FH	H8-20
Blackburn J.E.*	WCH	H4-15
Bond, R.*	Ecology	H0-57
Bohnee, G.	NPT	
Boyd, A.	EPA	B1-46
Buelow, L.C.	EPA	B1-46
Cameron, C.E.	EPA	B1-46
Ceto, N.	EPA	B1-46
Charboneau, S.L.*	RL	A6-33
Cimon, S.*	ODE	
Dagan, E.B.*	RL	A5-11
Donnelly, J.W.*	WCH	H4-22
Engelmann, R.H.	FH	H8-12
Faulk, D.A.*	EPA	B1-46
Fox, M.B.	WCH	B4-24
Franco, J.R.*	RL	A3-04
Gadbois, L.E.*	EPA	B1-46
Guercia, R.F.*	RL	A3-04
Harris, S.	CTUIR	
Hedges, J.	Ecology	H0-57
Henry, D.	OOE	
Horst, L.	OOE	
Jim, R.	Yakama	
Johnson, W.F.*	WCH	H4-22
Knox, K.E.*	KCR	
LaRue, D.N.*	WCH	H0-20
Lobos, R.A.	EPA	B1-46
McCormick, M.S.	RL	A5-11
Niles, K.	OOE	
Noland, T.W.*	FH	H8-12
Peres, M.W.	FH	X3-71
Pettiette, P.L.	WCH	H0-21
Piippo, R.E.*	FH	H8-12
Post, T.C.*	RL	A3-04
Price, J.B.*	Ecology	H0-57
Romine, L.D.	RL	A6-33
Ruscitto, D.G,	FH	A3-06
Russell, R.W.*	ORP	H6-60
Sands, J.P.	RL	A3-04
Skinnarland, E.R.	Ecology	H0-57
Spencer, C.G.*	WCH	H4-24
Stevens, J.M.*	FH	R3-60
Watson, D.J.*	FH	X3-79
Weil, S.R.*	RL	A5-16
Whalen, C.*	Ecology	H0-57
Wilkinson, R.E.	FH	H8-46
Administrative Record		H6-08

*Attendees

River Corridor/FFTF
Tri-Party Agreement Milestone Review
Meeting Minutes
March 20, 2008

River Corridor Project Portion of M-16/M-89/M-93/M-94

DOE distributed a handout summarizing milestone status, accomplishments, planned actions, performance summary, and issues.

River Corridor Milestone Status

M-16-94, Complete Interim Remedial Action at 100-B/C Area (not covered by M-16-45)

EPA asked if the at-risk status for this milestone is due to technical issues or funding. RL responded that it is currently technical issues associated with the path forward once the 35-foot dig is completed. RL is proceeding forward as planned to meet the 12/31/09 date. EPA inquired about the 100-B-27 site. WCH responded that characterization data was recently received on one borehole, but the design has not been done. Funding is currently available in FY-08 for this work, but funding is uncertain for FY-09.

M-93-22, Complete 105-KE and 105-KW Reactor Interim Safe Storage

EPA asked if the KE Reactor Interim Safe Storage (ISS) is still on track. RL responded that the KE Reactor is being turned over from WCH to Fluor Hanford so the KE Basin demolition work can be completed. Following that, the majority of the K work will be turned over to the Central Plateau remediation contract. The ISS will follow the KE Basin demolition. EPA reiterated that they would not want the K West delays to impact the K East ISS.

M-16-45, Complete Interim Remedial Action for 100-B/C Area

EPA congratulated RL and WCH for completion of this milestone.

River Corridor Significant Accomplishments - For Last 3 Months and Planned for Next 3 Months

Ecology inquired about the status of their proposed target milestone to cleanup 3 outlying waste sites in the Gable Mountain area (Pipeline going to Gable Mountain Pond, Suzy Junction, and Suzy Switch). The responsible RL staff for response to this inquiry were not in attendance at the meeting.

RL reported that the optimization study results are indicating that they will be able to go to a one to one ratio for soil to debris at ERDF with the exception of some piping which will require two to one. This should optimize disposal of abandoned heavy equipment into ERDF which was low priority for disposal under the current three to one soil to debris requirements.

Ecology expressed that regarding the River Corridor baseline risk assessment, that if they are not in agreement with the Columbia River component of the Draft 1 work plan, that this is an issue that should be elevated to the IAMIT for resolution. Ecology and RL agreed that the IAMIT dispute resolution process should be used to resolve major technical issues early to avoid delays.

WCH reported that all of the fuel that was found to date was removed from 100-F and taken to K Basins. EPA inquired if there was a strategy to deal with future found fuel and RL responded that this strategy was being developed.

RL noted that the 184N Building is not located in the 300 Area as indicated in the presentation package.

RCC Issues

EPA expressed concern about K East and K West reactor ISS both being under stop work. RL explained that K East ISS could continue and so could K field remediation, but there is a problem in demolition of K East facilities because they provide infrastructure such as utilities for K West . RL also stated that EPA would be getting a briefing soon regarding the schedule for K Area.

Ecology noted that delays in the 100-K milestone could impact closure of the 1706-KE TSD, and the DOE and Ecology should meet to discuss that issue.

K Basins Remediation - M-34 Milestone Review

DOE provided the M-34 milestone status, significant accomplishments, upcoming activities, KBC project risk status, and total project baseline.

K Basins Significant Accomplishments and Status

RL reported that dewatering in K East Basin was completed yesterday (3/19/08). Control density fill is expected to start tomorrow.

RL reported that there are some incompatibility issues with 118-K-1 excavation being performed by WCH and the upcoming demolition support activities for K East Basin. The WCH 118-K-1 excavation will be stopped so the K East Basin demolition can move forward.

K Basins- Risk Status

FH inquired about the status of Removal Action Work Plan and Sampling and Analysis Plan to support excavation of the waste site that is under the K-East Basin. RL stated that there were contract issues to clear up before FH could move forward on the excavation and further discussions were needed on this topic.

Total Project Baseline

The BCRs for D&D and STP were recently approved.

Tri-Party Agreement Major Milestone Management Review
March 20, 2008

Name	Organization	Mail Stop	Phone
Terry Noland	Fluor TPA	H8-12	376-6574
Kathy Knox	Knox Court Reporting		946-5535
Jack Donnelly	WCH	H4-22	372-2043
JEB BLACKBURN	WCH	H4-22	372-9958
[illegible]	Ecology		372-7972
CLIUCK SPENCE	WCH		372-9957
Wayne Johnson	WCH		372-9664
DEENA LaRue	WCH		
STACY CHARBONEAU	DOE		373-3841
Steve Weil	DOE-RL	A5-15	372-0879
John Price	Ecology		372-7921
Rick Bond	Ecology		372-7885
Dale Bignell	WCH		372-9834
Woody Russell	DOE-ORP	H6-60	373-5227
DENNIS Faulk	EPA		
JOE FRANCO	DOE		376-6628
Larry Gadbois	EPA		376-9884
TOM POST	RL		376-3232
SHELLEY CIMON	ODOE		(541) 240-0161
RF Guercia	RL		376-5494
Ellen Dagan	RL	A5-15	376-3811

Tri-Party Agreement Major Milestone Management Review
March 20, 2008

Name	Organization	Mail Stop	Phone
Tom Post	RL	A3-04	376-3232
David Watson	FH	X3-79	373-5250
Michael Stevens	FH		372-9078

Tri-Party Agreement

March 20, 2008

River Corridor/K-Basins Closure Milestone Review

Place:	EPA Conference Room, 309 Bradley Boulevard, Suite 115, Richland, WA
Time:	10:00 am - 11:00 am
Chairperson:	Dennis Faulk

Agenda

10:00 am	M-16-00	Complete Remedial Actions
	M-93-00	Disposition of Surplus Reactors
	M-94-00	300 Area Surplus Facilities
	M-89-00	324 Bldg. Closure of MW Units
10:45 am	M-34-00	K-Basins Closure Project
11:00 am	Adjourn River Corridor Milestone Review	

Hanford K Basins Remediation

Tri-Party Agreement M-34 Milestone Review

U.S. Department of Energy
Richland Operations Office (RL)
River Corridor Project

March 20, 2008

TPA Milestone Status

Remaining Milestones Due Fiscal Year 2008-2009

Number	Milestone Title	Due Date	Status/Comments
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.	12/31/2008	Anticipated to be missed. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 is pending with proposed adjustments to this milestone.
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.	09/30/2009	On Schedule.
M-34-31	Complete Sludge Treatment This interim milestone will be complete following treatment and package of all sludge for disposal offsite.	11/30/2009	Anticipated to be missed. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 is pending with proposed adjustments to this milestone.
M-34-40-T01	Submit a detailed description of overall work scope and interfaces for 100K Area Closure	01/31/2008	Complete.
M-34-40-T02	Submit a detailed schedule and budget profile for 100K Area Closure	03/31/2008	On Schedule.
M-34-40	Submit 100K Area Change Package with proposed milestone changes.	05/31/2008	On Schedule.
M-34-00A	Complete removal of the K Basins and their contents. Unless otherwise noted, the term "K Basins" is used to denote both K East and K West Basins. Note: 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	Anticipated to be missed. Requires completion of M-34-31 that will involve removal of sludge from K West Basin for treatment. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 is pending with proposed adjustments to this milestone.

Significant Accomplishments and Status

Overall Project

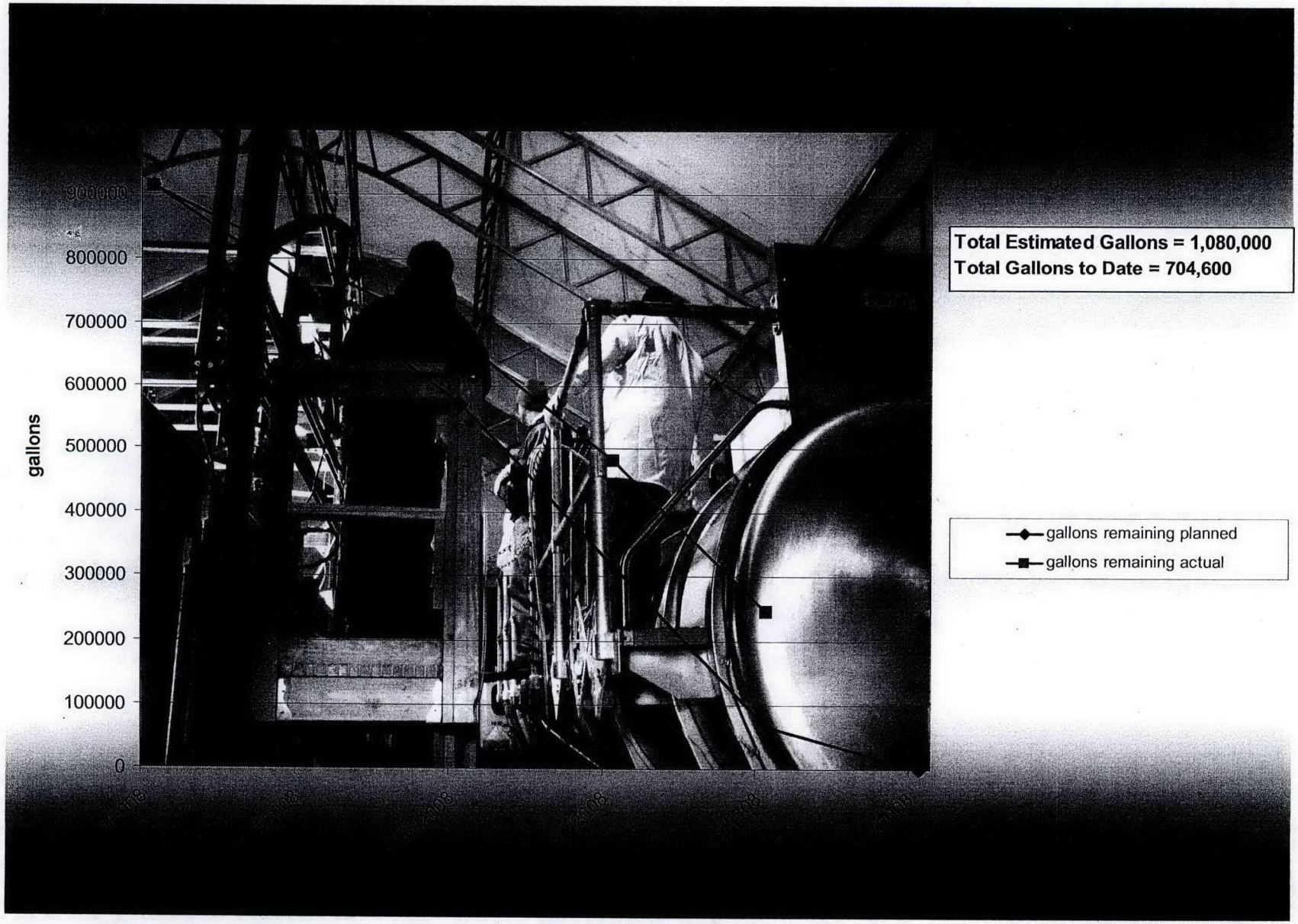
- The management of and progress reporting on M-34 milestones now fall under DOE-RL's River Corridor Project.
- Arrived at a Tri-Party Agreement Dispute Resolution Settlement on Milestone M-34-32.
- Approved Change packages M-34-07-02 and M-34-07-03.

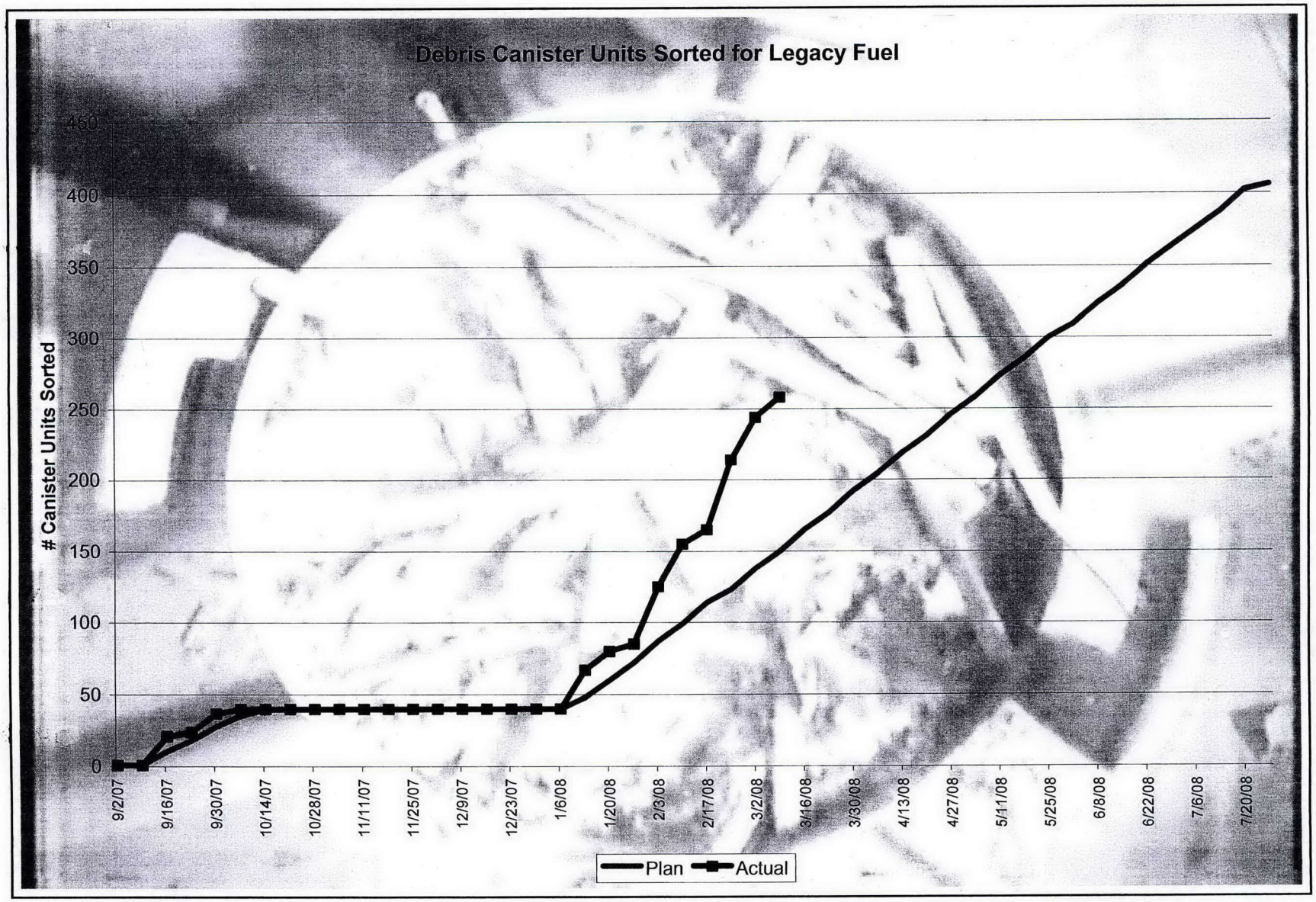
K East Basin

- Started dewatering campaign and as of 3/07/08 704,000 gallons has been shipped to ETF for processing.
- Continuing installation of temporary systems for demolishing KE basin superstructure.
- Completed installation of queue area for waste transfers, trailer support, and most infrastructure to support demolition.

K West Basin / Cold Vacuum Drying Facility

- Completed Final Pass sludge containerization.
- Performing training and maintenance to restore fuel processing equipment to service for upcoming Multi-Canister Overpack shipments of spent nuclear fuel found during sludge and debris removal.
- Continued debris canister sorting to prepare for legacy fuel processing.


gallons
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Total Estimated Gallons = 1,080,000
Total Gallons to Date = 704,600
gallons remaining planned
gallons remaining actual

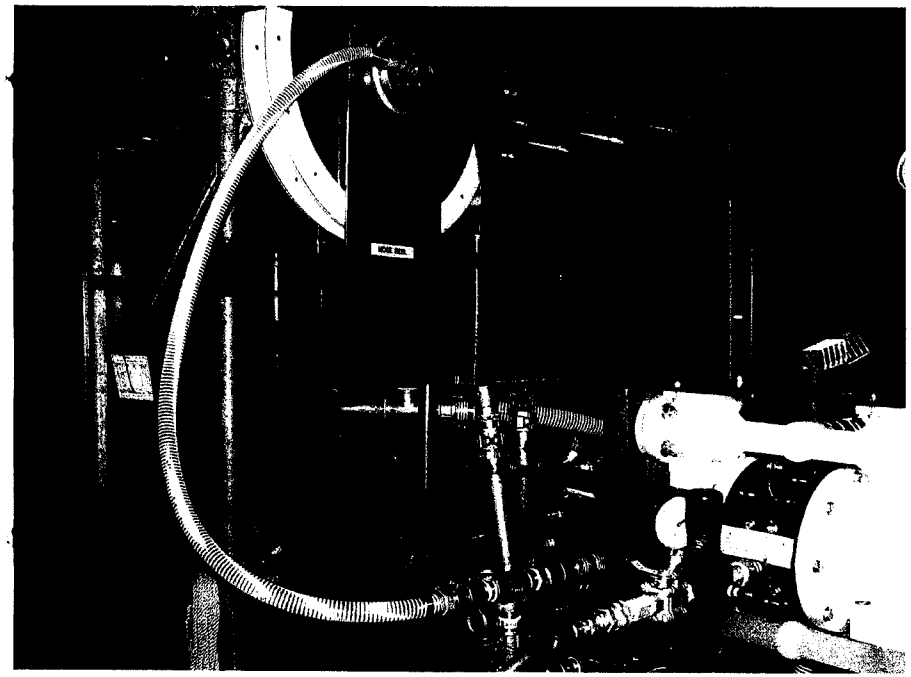

Debris Canister Units Sorted for Legacy Fuel
Canister Units Sorted
0
50
100
150
200
250
300
350
400
450
9/2/07
9/16/07
9/30/07
10/14/07
10/28/07
11/11/07
11/25/07
12/9/07
12/23/07
1/6/08
1/20/08
2/3/08
2/17/08
3/2/08
3/16/08
3/30/08
4/13/08
4/27/08
5/11/08
5/25/08
6/8/08
6/22/08
7/6/08
7/20/08
Plan
Actual

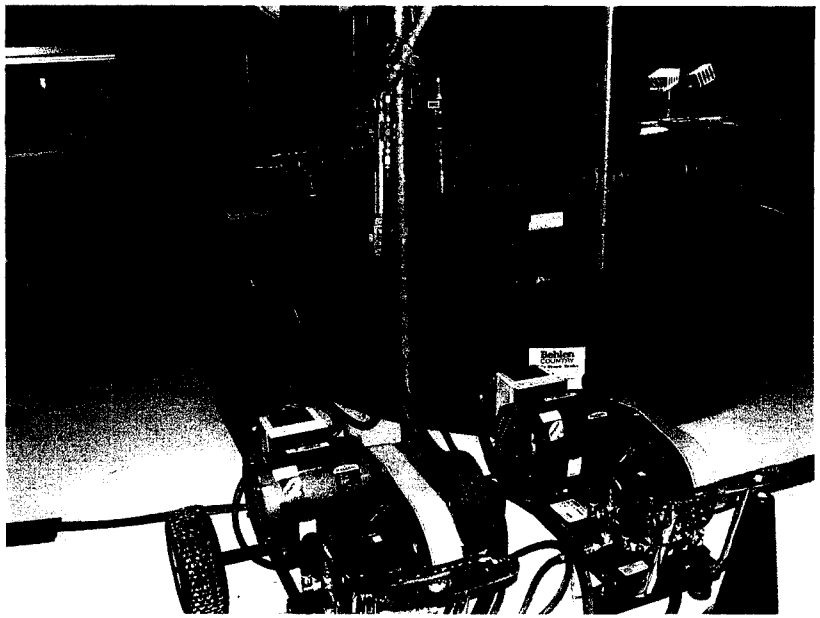
Significant Accomplishments and Status - continued

Sludge Treatment

- Established the Remote Handled TRU Waste Integrated Project Team and approved RHWT Charter for the team's implementation strategy
- Updated and released STP Project Execution Plan (PEP)
- Completed gap/equivalency analysis between WIPP and FH Quality Assurance programs
- Completed the Retrieval System Process Flow Diagrams (PFDs), Process System Description, Functions & Requirements (F&Rs), Piping & Instrument Diagrams (P&IDs)
- Completed Studies and Analysis for both the Packaging System and Transfer System
- Completed Functions & Requirements documents for the Assay System and Drum Handling System
- Initiated external stakeholder review on the DQO Document for Sludge Containerization
- Approved the Settler Tank Sampling Retrieval test plan

Settler Tank Sampling Retrieval Test Loop





Upcoming Activities (Next Three Months)

K East Basin

- Complete Dewatering on the K East Basin.
- Install backfill material into K East Basin.
- Complete the deactivation phase for K East Basin.
- Complete modifications to haul road
- Start removal of prohibitive items prior to demolition.

K West Basin / Cold Vacuum Drying Facility

- Continue debris canister sorting.
- Continue fuel processing equipment training and maintenance for MCO restart.
- Work with Sludge Treatment Project to plan and integrate and sludge sampling work with other basin activities.

Upcoming Activities (Next Three Months)

Sludge Treatment

- Continue with conceptual design activities associated with retrieval, transfer, assay, and treatment by solidification of containerized sludge, and package handling systems
- Downselect to one preferred "Direct Grouting" system technology
- Continue design and testing for Container Sludge Sampling System
- Approve the "DQO Document for Sludge Characterization" that addresses sludge characterization for Containers, Settler Tanks, and Knock Out Pot
- Continue testing for the Settler Tank Sludge Retrieval/Sampling System conceptual design
- Commence development of design and testing for Settler Tank and KOP sludge sampling system
- Continue CD-1 testing for critical technology elements:
    - Investigate sludge rheology modifiers,
    - Develop basic grout/sludge formulations,
    - Assess solids measurement process control instrumentation,
    - Evaluate/develop sludge retrieval hardware, and
    - Evaluate sludge mixing hardware

KBC Project Risk Status

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts. The process by which risks are identified and managed is described in the "KBC Project Risk Management Plan," KBC-28211.

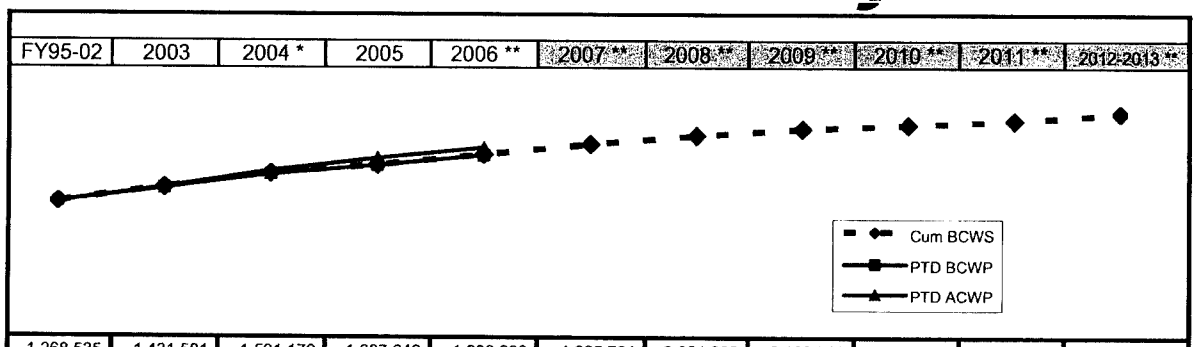
Sub-project	Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence	Emerging Risks	Risk Mitigation
K East Basin	1. Radiological conditions encountered during substructure demolition slow productivity. 2. Inclement weather delays. 3. Dewatering design and installation take longer than anticipated to due to design changes		1. Contingent overtime to maintain schedule. 2. Overtime and schedule contingency.
K West Basin	1. Future fuel and sludge handling will have potential to deposit additional sludge on K West Basin floor. 2. Defining how much sludge can remain in K West to satisfy End Point Criteria. 3. Need to process "found spent nuclear fuel" with a water treatment system with limited remaining life.	1. Retaining previously qualified personnel. 2. Sludge sampling will place demands on limited resources and compete with other priority work (e.g., fuel removal)	1. Identify key personnel; review transfer requests. 2. Develop a bases and determine the radiological source term of sludge remaining on the floor and pits of the basin. 3. Develop decision making process by which it can be determined how much sludge can remain on the floor and pits of the basin for disposition as part of basin demolition.

KBC Project Risk Status - continued

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts. The process by which risks are identified and managed is described in the "KBC Project Risk Management Plan," KBC-28211.

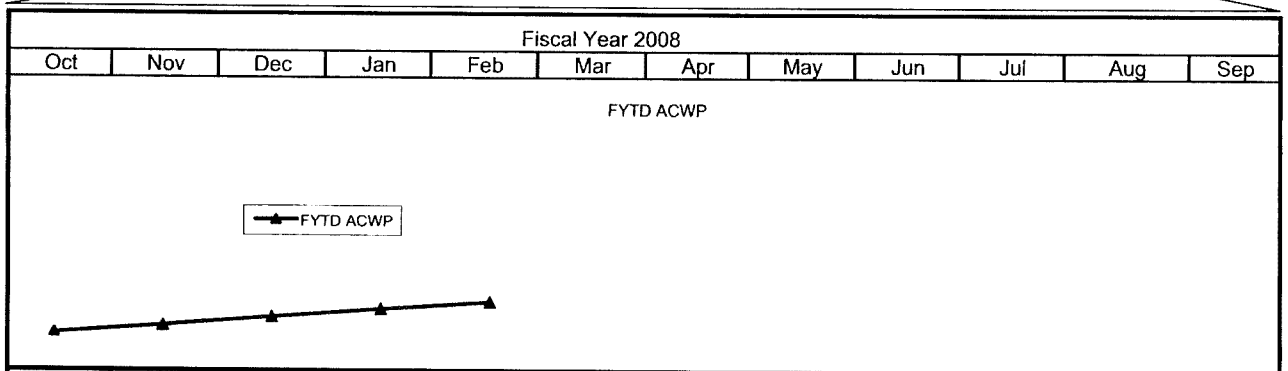
Sub-project	Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence	Emerging Risks	Risk Mitigation
Cold Vacuum Drying Facility (CVDF) Fuel Processing	1. Retaining previously qualified personnel. 2. Equipment failure extends processing duration or preparation efforts. 3. Repairs to the CVD Facility		1. Identify key personnel; review transfer requests; prepare additional training capability and longer training duration. 2. Conduct maintenance as soon as possible; locate and verify spares, order additional as needed. 3. Plan and schedule any repairs to the CVD Facility in a timely manner.
Sludge Treatment	1. Conceptual design takes longer than planned, due to new or changing functions or requirements 2. Results form the Testing program yield different outcome than expected forcing redesign and/or different technology selection. 3. Technical resources availability 4. PAS-1 cask not available when the project requires	1. Obtaining timely feedback from CBFO and it's stakeholders. 2. Schedule and cost impacts associated with need to perform additional sludge sampling and analysis.	1. Continue implementation of the Safety in Design integration, Critical Decision Process, and the Technology Maturation Plan to gain confidence in the Project execution. 2. Continue to engage CBFO in issues regarding K Basins sludge disposition. 3. Perform prototype tests as early as possible. 4. Continue open interface with WCH (owners of the cask on-site)

PBS RL-0012 – Total Project Baseline



	FY95-02	2003	2004 *	2005	2006 **	2007 **	2008 **	2009 **	2010 **	2011 **	2012-2013 **
Cum BCWS	1,268,535	1,431,581	1,591,179	1,687,648	1,808,200	1,925,764	2,021,952	2,100,516	2,147,595	2,199,029	2,284,143
PTD BCWS	1,268,535	1,431,581	1,591,179	1,687,648	1,808,200	1,925,764	1,966,433				
PTD BCWP	1,268,535	1,419,776	1,579,222	1,680,783	1,797,077	1,913,193	1,950,229				
PTD ACWP	1,268,535	1,431,581	1,623,357	1,766,198	1,885,753	1,999,585	2,038,556				
% Sch	55.5%	62.7%	69.7%	73.9%	79.2%	84.3%	88.5%	92.0%	94.0%	96.3%	100.0%
% Cmpl	55.5%	62.2%	69.1%	73.6%	78.7%	83.8%	85.4%				
SPI	1.00	0.99	0.99	1.00	0.99	0.99	0.99				
CPI	1.00	0.99	0.97	0.95	0.95	0.96	0.96				

Life Cycle	
*BAC=	2,284,143
EAC=	2,357,964
BCWS=	1,966,433
BCWP=	1,950,229
ACWP=	2,038,556
SV=	(16,204)
CV=	(88,326)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD ACWP	5,013	13,062	22,520	31,276	38,970							

* PHMC Rebaseline Sludge Retrieval & Disposition Project and Decontamination & Decommission Project

** FH KBC EIR Validated Baseline

PBS RL-012
Project Performance through February FY 2008
($ in thousands)

	FYTD ACWP
Safe and Compliant (Peres)	$ 8,026
Sludge Retrieval and Disposition (Peres)	$ 8,485
Sludge Treatment (Ruscitto)	$ 5,468
K East D&D (Wilkinson)	$ 14,145
Closure Services	$ 2,846
TOTAL	$38,970

RIVER CORRIDOR CLOSURE PROJECT

TPA Quarterly Review

For Period: December 2007 - February 2008

Tri-Party Agreement

River Corridor Milestones:

M-16	M-93
M-89	M-94

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

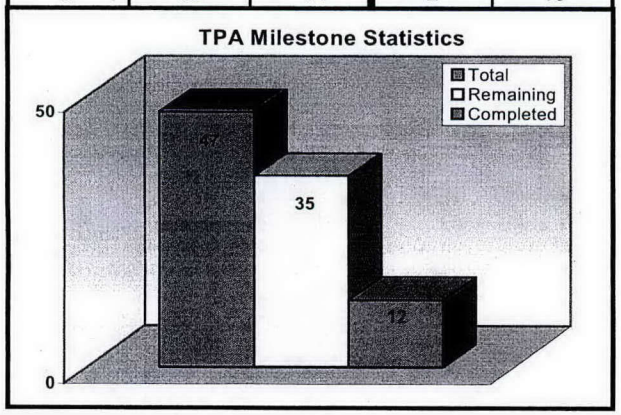
March 20, 2008

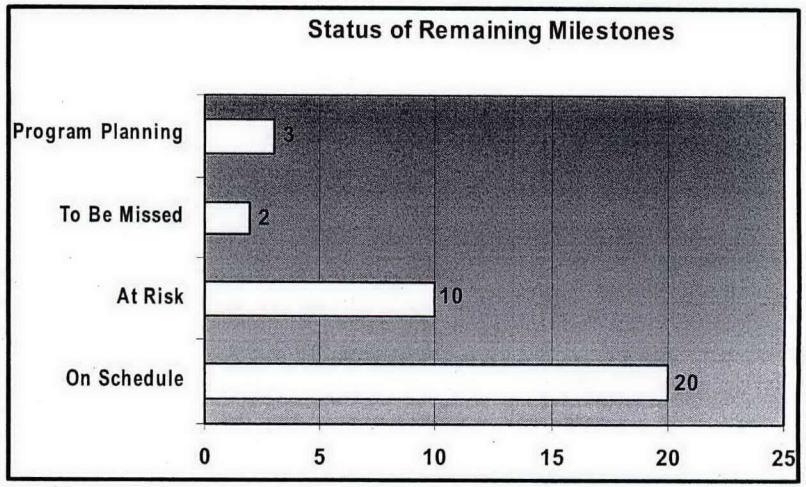
Protecting the Columbia River

E0803018

TPA Milestone Statistics
(Includes Targets and Commitment Milestones)

Total	Remaining	Completed	Completed On	Completed Ahead
47	35	12	2	10





Quarterly Summary (December 2007-February 2008)

- Completed one TPA milestone on 12/30/07 - **M-16-45**, Complete Interim Remedial Action for 100-B/C Area (due 12/31/07).
- TPA change requests:
  -- **M-16-07-07** - approved 1/31/08. **M-16-57** - Initiate KE Basin Soil Remediation - extended due date from 4/30/07 to 10/31/09.

TPA Milestone Status Report

Status as of: February 29, 2008

	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
	M-16 Milestones - Remedial Action / Risk Assessment				
1	M-16-45	12/31/2007	Complete Interim Remedial Action for 100-B/C Area	COMPLETE	Milestone completed on 12/30/07.
2	M-16-67	06/30/2008	Submit a Characterization Sampling and Analysis Plan (SAP) for 618-10 and 618-11 Burial Grounds to EPA for Approval as a Primary Document.	On Schedule	RL provided SAP Notice to Proceed on 2/26/08.
3	M-16-73	09/30/2008	Initiate Substantial and Continuous Soil Remediation at 618-1 Burial Ground	On Schedule	
4	M-16-50	10/31/2008	Initiate Remedial Actions for Remaining Waste Sites for 100-H Area	On Schedule	Excavation scheduled to start 10/1/08.
5	M-16-49	12/31/2008	Complete Interim Remedial Actions for 100-F Area	On Schedule	
6	M-16-56	12/31/2008	Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6	To Be Missed	A draft TPA change package was prepared for RL/EPA discussion. RL incorporating EPA comments and will have follow-on discussions.
7	M-16-61	12/31/2008	Complete Interim Remedial Actions for Remaining High Environmental Priority 300-FF-2 Waste Sites (618-2, 618-3, 618-5, and 618-7)	At Risk	Sites 618-2, 618-3, 618-5 were completed under M-16-60 (12/28/06). Milestone may be impacted due to uncertainties with number/content of drums in 618-7 Burial Ground. Remediation of 618-7 began in December 2007.
8	M-16-58	04/30/2009	Initiate Soil Remediation at K-West Basin	To Be Missed	See M-16-57 status; M-16-58 dependent on M-34 progress.
9	M-16-52	07/31/2009	Initiate Response Actions for Remaining Waste Sites for 100-K Area Including Closure of the 1706-KE Waste Treatment System in Accordance with Section 5.5 of the Agreement Action Plan	At Risk	RL coordinating with K-Basin schedules.
10	M-16-57	10/31/2009 (compliance date) ---------- 08/31/09 (Settlement Agreement date)	Initiate K-East Basin Soil Remediation	On Schedule	RL coordinating with K-Basin schedules.
11	M-16-94	12/31/2009	Complete Interim Remedial Actions at 100-B/C Area (not covered by M-16-45)	At Risk	RL working on design at 100-C-7 to dig to 35 feet.
12	M-16-51-T01	12/31/2009	Complete Excavation of 1 of 5 100-H Burial Grounds (118-H-1, 118-H-2, 118-H-3, 118-H-4, or 118-H-5)	On Schedule	

TPA Milestone Status Report

Status as of: February 29, 2008

	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
13	M-16-64	09/30/2010	Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, and 618-1) (see Table 2 in TPA CR M-16-01-06)	On Schedule	Initial planning only.
14	M-16-51-T02	12/31/2010	Complete Excavation of a Total of 3 of 5 100-H Burial Grounds (118-H-1, 118-H-2, 118-H-3, 118-H-4, or 118-H-5)	On Schedule	
15	M-16-51	12/31/2011	Complete Interim Remedial Actions for 100-H Area	On Schedule	
16	M-16-47	12/31/2011	Complete Interim Remedial Actions for 100-D Area	On Schedule	
17	M-16-74	09/30/2012	Complete Interim Remediation (to include excavation, loadout, closeout sampling, backfill, and revegetation) for all 300 Area "Inside the Fence" Waste Sites North of Apple Street, Except that for the 300-RLWS, 300-15, 300-4, 300-268, and 300-123 Waste Sites, Remediation Need Only Be Completed Through Excavation and Loadout	On Schedule	Initial planning only.
18	M-16-53	12/31/2012	Complete Interim Response Actions for 100-K Area	At Risk	Potential impact due to K-Basin schedule/milestones. See M-16-57 status also. NOTE: Under TPA CR M-34-04-01 – 100-K Area remedial action is not complete until K-Basin sludge shipments for disposal off site have taken place.
19	M-16-55	12/31/2012	Complete Interim Response Actions for 100-N Area	At Risk	Work continues on high-priority remediation activities in River Corridor which generally shows more waste volumes than projected. Remediation of these waste sites continues in order to be protective of groundwater and river, meet current milestones in other areas, and effectively utilize existing resources. Future milestones may be impacted by projected funding.
21	M-16-62	12/31/2012	Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, and 618-13 (see Table 1 in TPA CR M-16-01-06)	On Schedule	
20	M-16-00A	12/31/2012	Complete All Interim Response Actions for the 100 Areas	At Risk	Work continues on high-priority remediation activities in River Corridor which generally shows more waste volumes than projected. Remediation of these waste sites continues in order to be protective of groundwater and river, meet current milestones in other areas, and effectively utilize existing resources. This approach may impact other future milestones based on projected funding. K-Basin schedule may also cause impact.
22	M-16-75	09/30/2013	Initiate Substantial and Continuous Remediation on the 309 Facility Dedicated Radioactive Liquid Waste Sewer (300 RLWS) and the 300 Area Process Sewer (300-15) Systems	On Schedule	Preplanning stage.
23	M-16-69	09/30/2015	Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of All Candidate Sites Listed in 300-FF-2 ROD (except for 618-10 and 618-11 Burial Grounds)	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings.
24	M-16-00B	09/30/2018	Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings.
25	C-16-06C	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area	Program Planning	
26	C-16-06D	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area	Program Planning	

TPA Milestone Status Report

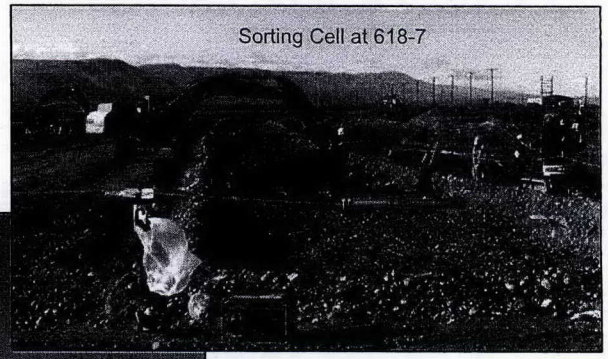
Status as of: February 29, 2008

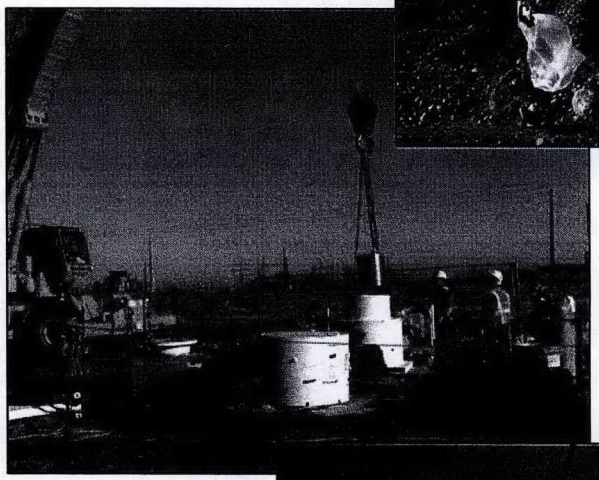
	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
	M-89 Milestones - 324 Bldg Non-Permitted MW Units Closure				
1	M-89-00	09/30/2010	Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault	On Schedule	Planning only.
	M-93 Milestones - Reactors Final Disposition				
1	M-93-22	09/30/2011	Complete 105-KE and 105-KW Reactor Interim Safe Storage	At Risk	Milestone may be impacted by delay of K-Basin schedules under M-34 milestones.
2	M-93-20	09/30/2012	Complete 105-N Reactor Interim Safe Storage	On Schedule	More information is expected upon receipt of subcontractor proposals in March 2008.
3	M-93-00	TBD	Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings. 100 Area surplus production reactor buildings consist of the following: 105-D, 105-DR, and 105-H, 105/109-N (Ecology lead), and 105-B, 105-C, 105-F, 105-KE, and 105-KW (EPA lead).	Program Planning	
	M-94 Milestones - 300 Area Surplus Facilities Disposition				
1	M-94-06	06/30/2008	Complete the Selected Removal and/or Remedial Actions that are Selected for 3 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 333 Facility	On Schedule	Bldg 305B completed in Sep 2006. 306E above-grade (AG) demolition completed 12/22/06; AG loadout completed 5/3/07. Bldg 333 AG demolition was completed 9/28/06; AG loadout completed 2/23/08 with the removal of the Loewy press. Approved deferral form for 333 will complete milestone.
2	M-94-07	12/30/2009	Complete the Selected Removal and/or Remedial Actions that are Selected for 6 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 306E, 306W, 3720, and 305B Facilities	On Schedule	See M-94-06 status. In addition, Bldg 3706 above-grade (AG) demolition completed 6/3/07; AG loadout completed 7/19/07. Bldg 306W AG demolition completed 9/28/07; AG loadout completed 12/15/07. Bldg 3720 AG demolition completed 7/17/07; 3720 below-grade demolition/loadout scheduled for July 2008. 3706 and 306W deferrals will be developed.
3	M-94-03	09/30/2010	Complete Disposition of Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (see TPA CH M-94-01-01, Table 1)	On Schedule	3221,3222,3223,3224 demolished May 2002. 334 and 3225 (November 2005), 334A (December 2005), 303M (June 2006), and 333 (February 2008) demolished/loaded out by WCH. 303M pad remains. Sequenced with M-89-00.
4	M-94-08	12/31/2011	Complete the Selected Removal and/or Remedial Actions that are Selected for 12 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720	On Schedule	See M-94-06/M-94-07 status.
5	M-94-09	09/30/2013	Complete the Selected Removal and/or Remedial Actions that are Selected for 15 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 323 Facility and the 307 Trench	On Schedule	See M-94-06/M-94-07 status.
6	M-94-00	09/30/2015	Complete Disposition of 300 Area Surplus Facilities to be Defined as the 220 Facilities Listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings. Some of the 220 facilities are no longer surplus and need to be removed from this milestone.

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Achieved completion of TPA M-16-45 (100-B/C Area).
- Completed borehole at 100-B-27.
- Completed backfill of 100-D-56 pipeline in support of installation of a groundwater monitoring well.
- Began setup of a 100-D Area second container survey station in support of increasing container loading to an average of 120 containers per day.
- Completed support of 100-F orphan sites sampling.
- Completed revegetation of available waste sites.
- Received RL consent to award 100-H Area remediation subcontract.
- Continued remediation of 118-K-1 trenches.
- Initiated remediation of 300 Area 618-7 Burial Ground; processing drums as encountered.
- Completed 618-10/11 characterization plan; received Notice to Proceed for SAP.
- Completed/issued remediation design for 600-149 Small Arms Range site.
- Approved 6 waste site closure documents during reporting period.
- Conducted a public workshop to support development of a sampling design and a screening level risk assessment methodology for the Columbia River remedial investigation activities.
- Completed Draft A comment dispositions and initiated Draft B development of the *River Corridor Baseline Risk Assessment Report.*
- With the Tri-Parties and Fluor Hanford, further refined the path forward for the final River Corridor ROD strategy including reaching agreement on the decision boundaries for each of the six anticipated final RODs.
- Subcontract for orthophotography/Light Detection and Ranging data collection awarded by PNNL; working pre-flight deliverables.





Preparing SNF Shipment from 100-B/C to K-Basin

M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:

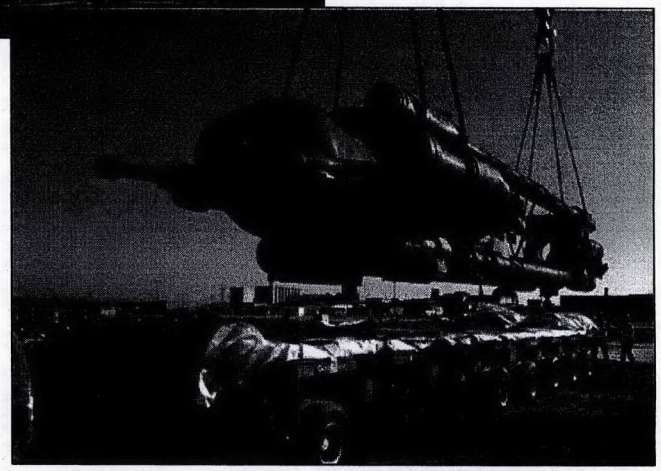
- Performed S&M activities necessary to maintain the 324 building in a safe configuration.

M-93 – Reactors Final Disposition:

- Continued 109N deactivation and hazardous material removal.
- Mobilized for 105N office space hazardous material removal and asbestos abatement.

M-94 – 300 Area Surplus Facilities Disposition:

- Completed deactivation and decommissioning of 6 buildings (184N,184NA,184NE, 184NF,321,337B).
- Completed demolition/loadout of 8 buildings (163N,183N,183NB,183NC,306W,328, 328A,333).
- Completed removal of Loewy press from 333 pad.
- Continued deactivation planning and design of 327 building systems.
- Completed 105DR-Reactor 5-year surveillance.

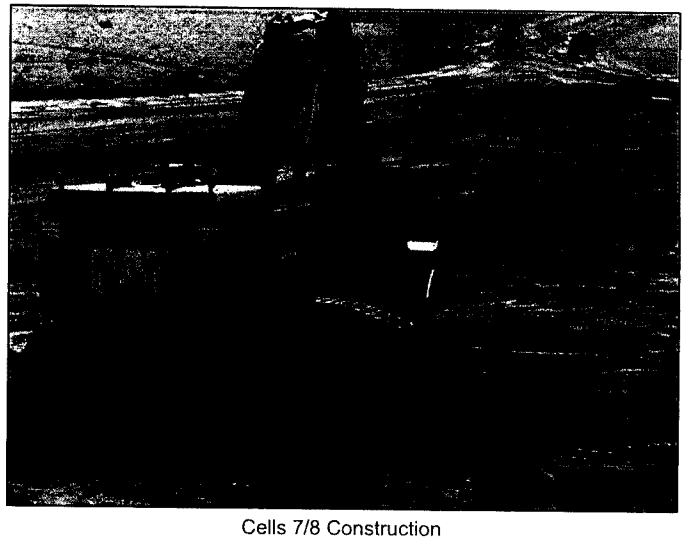


Preparing Loewy Press for Transport to ERDF for Disposal

Significant Accomplishments – For Last 3 Months (cont'd):

Other:

- Completed optimization testing using new compactors; issued final report.
- Awarded ERDF Cells 7/8 construction subcontract; initiated excavation in February.
- Through February 2008, more than 1.2 million tons of contaminated material have been disposed in ERDF since WCH assumed River Corridor cleanup responsibilities (8/27/05). Nearly 7.3 million tons of waste have been disposed since ERDF operations began in July 1996.



Cells 7/8 Construction

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Accelerate 100-D Area remediation activities.
- Prepare CVPs/RSVPs for various 100-F waste sites.
- Award 100-H remediation subcontract and renew submittals.
- Continue excavation of 618-7 trenches.
- Begin development of 618-10/11 SAP.
- Complete SNF shipments from 100-D and 100-K Areas to K-Basins.
- Brief RL/regulators on planned confirmatory sampling for 100-N and 300 Areas.
- Continue to develop Draft B of the *River Corridor Baseline Risk Assessment Report*, implementing key technical resolutions and revising format/content to include groundwater and Inter-Areas.
- Issue the *100-D Area Orphan Sites Evaluation Report*.
- Initiate development of the 100-B/C remedial action report.
- Initiate work plan development for the Columbia River Component of the RCBRA.

M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:

- Relocate personnel out of the 324 building in preparation for deactivation activities in the administrative portions of the building. Characterization activities for hazardous material will begin.

M-93 – Reactors Final Disposition:

- Receive/evaluate 105N/109N demolition/safe storage enclosure bid proposals.
- Commence 105N subcontractor scaffold erection and asbestos abatement.

M-94 – 300 Area Surplus Facilities Disposition:

- Commence 184N Power House demolition.
- Complete 117N Air Filter Building deactivation.
- Complete demolition/loadout of 384.
- Complete ERDF modification design for receiving 327 hot cells.

Other:

- Implement new waste placement methods at ERDF.
- Complete ERDF leachate system upgrades.
- Renegotiate subcontract with Transportation Operations subcontractor.
- Continue Cells 7/8 excavation.

PERFORMANCE SUMMARY

Contract Inception (8/25/05) through February 2008

($K)

	IPB		CUMULATIVE			SCHEDULE VAR		COST VAR	
	BCWS	EAC	BCWS	BCWP	ACWP	$	SPI	$	CPI
D4	630,967	630,967	145,559	175,106	111,048	29,547	1.20	64,058	1.58
Reactor ISS	115,988	115,988	22,855	16,199	10,799	-6,656	0.71	5,400	1.50
Field Remediation	432,751	432,751	135,399	136,638	119,356	1,239	1.01	17,282	1.14
Waste Operations	251,918	251,918	49,496	52,339	74,389	2,843	1.06	-22,050	0.70
ESFC	56,859	56,859	12,507	17,884	13,281	5,377	1.43	4,603	1.35
Mission/General Support	323,259	323,259	92,038	92,038	103,452	0	1.00	-11,414	0.89
Transition	3,979	3,979	3,979	3,979	3,752	0	1.00	227	1.06
Undistributed Budget	7,155	7,155							
Contingency	230,568	230,568							
TARGET COST TOTAL	**2,053,444**	**2,053,444**	**461,833**	**494,183**	**436,076**	**32,351**	**1.07**	**58,107**	**1.13**

Schedule Variance (PMB): $32,351K

- Acceleration of 300 Area and 100-N Area building demolitions.
- 100-F, 100-D, 100-B/C waste site accelerations/completions.
- 100 Area remediation delays due to discovery of chromium, anomalous waste, nuclear safety issues, quantity growth; delay at 618-7 Burial Ground due to high risk nature of the scope.
- Late approval/award of 105N/109N D&D subcontract.
- Stop-work at KE/KW Reactor ISS.

Cost Variance (PMB): $58,107K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- Significant underruns in 300 Area utility charges and S&M activities.
- Favorable cost experienced to-date in remediation of burial grounds and 100-F and 100-B/C Area waste sites, and in confirmatory sampling. Partially offset by increased costs associated with 118-K-1 readiness, 618-10/11 design solution submittal, and significant project support costs at all active dig sites.
- ERDF cost overruns in transport, treatment, and disposal of waste due to operational issues; overrun in purchase and leasing of additional equipment; and transportation and disposal subcontractor mobilization.
- RadCon, Industrial Safety, and Environmental Support services greater than planned.
- Increased Employee Concerns Program, conduct of operations, and regulatory interface resources.

RCC Issues

- **M-16-56 - Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6 (due 12/31/08).** Milestone will be missed.
  Status: At regulator request, remediation of the 600-149 waste site and plutonium criticality lab are high priority sites. A draft TPA change package was prepared. EPA provided comments to RL. Additional discussions will be held

- **M-16-94 - Complete Interim Remedial Actions at 100-B/C Area (not covered by M-16-45) (due 12/31/09).** Chromium contamination.
  Status: RL working on design at 100-C-7 to dig to 35 feet.

- **116-N-1 dispute.**
  Status: 116-N-1 CVP was finalized incorporating resolved comments as agreed to by RL and WCH in an August 2007 meeting. The 116-N-1 Waste Site Reclassification Form (WSRF), Rev. 0 CVP, and the comment response package for remaining unresolved comments were formally transmitted to RL on 9/28/07 for submittal to Ecology for approval. Ecology received the WSRF, signed by RL, at a meeting with RL on 10/24/07. At that time, Ecology indicated that they would reject the waste site reclassification. The 45-day TPA-mandated period ended on 12/8/07. Ecology formally rejected the 116-N-1 WSRF in December. RL submitted a Statement of Dispute to Ecology on 1/17/08, and this dispute is at the IAMIT level. The IAMIT will be evaluating a recommendation to further pursue the dispute at the project manager level.

- **ERDF Soil-to-Debris Ratio**. On 6/18/07 WCH began using daily operational cover (DOC) to maintain the required 3:1 soil-to-debris compaction ratio.
  Status: The ERDF Placement Optimization and Settlement Monitoring Test Plan was approved by RL and EPA. Compaction test pad construction began on 8/13/07 in an effort to reduce the soil-to-debris ratio. Test report was issued, and Waste Material Management Plan will be revised to utilize 1:1 soil-to-debris ratio, except for large steel which will be at a 2:1 soil-to-debris ratio. Upon completion, plan will be transmitted to RL and EPA for approval in March, and upon approval the revised soil-to-debris ratio will be utilized. DOC has not been used to maintain the soil-to-debris ratio since September 2007.