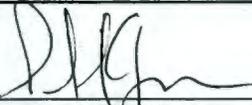


Meeting Minutes

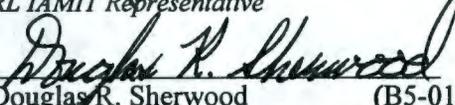
October 26th, 1999

Hanford Federal Facility Agreement and Consent Order Milestone Review

0052351

Approval: 
 Peter M. Knollmeyer (A5-11)
 RL IAMIT Representative

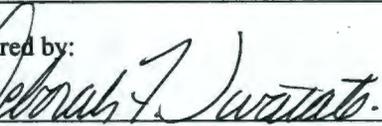
Date: 12/22/99

Approval: 
 Douglas R. Sherwood (B5-01)
 EPA IAMIT Representative

Date: 12/15/99

Approval: 
 Michael A. Wilson (B5-18)
 Ecology IAMIT Representative

Date: 12/15/99

Minutes Prepared by:
 Approval: 
 Deborah F. Iwatate (A5-15)
 Fluor Daniel Hanford, Inc.

Date: 12/15/99 **RECEIVED**
 JAN 13 2000

EDMC

DISTRIBUTION

Ballard, W.	RL	A5-12
Blazek, M. L.	ODOE	OR *
Cusack, L.	Ecology	B5-18 *
Erlandson, B. G.	LMHC	R1-51
Hertz, J. S.	FDH	H8-67 *
Iwatate, D. F.	FDH	A5-15 *
Jarvis, M. F.	RL	A5-15
Jim, R.	YN	
Kjarmo, K. J.	E2	A1-14 *
Knollmeyer, P. M.	RL	A5-11
Loscoe, P. G.	RL	S7-41
Miskho, A. G.	FDH	H6-06
Morrison R. D.	FDH	A1-14 *

Murphy-Fitch, E. J.	FDH	A1-14 *
Piippo, R. E.	FDH	A5-15 *
Rodriguez, H. M.	RL	A5-15
Sanders, G. H.	RL	A5-15 *
Sherwood, D. R.	EPA	B5-01 *
Skinnarland, E. R.	Ecology	B5-18
Sobczyk, S.	Nez Perce	
Stanley, R.	Ecology	Lacey *
Tilden, H. T.	PNNL	P8-34
Wilkinson, J. R.	CTUIR	
Wilson, M. A.	Ecology	B5-18 *
Yerxa, J. K.	RL	A5-15
Administrative Record	EDMC	H6-08 *

Other/Attendees:

Black, D. G.	WMH	G1-27
Clark, C. E.	RL	A5-15
Dagan, E. B.	RL	S7-55
Day, P. T.	MacTec	R3-11
Escamillo, J. M.	DOE/SFO	S7-41
Gadbois, L. E.	EPA	B5-01
Goody, C. E.	FDH	H8-67
Guercia, R. F.	RL	S7-55

Hales, J. W.	FDH	A3-02
Jones, R. G.	FDH	R3-11
McDonald, K. M.	WMH	H6-06
McKenny, D. E.	WMH	G1-32
Rodriguez, C. A.	IT/SFO	S7-41
Sherwood, A. R.	WMH	G1-30
Sonnichsen, J. C.	WMH	G1-30
Wallace, J.	Ecology	B5-18

* w/Attachments

File: MS Minutes.OCT99.doc

General

Mr. D. Sherwood provided information that the new EPA Operations Office Manager for Region 10 (Mr. Rick Albright) will be starting in his new position in January 2000.

Regarding the Hanford Site RCRA Permit – Mr. Sherwood requested confirmation that DOE had received Ecology input, regarding concern/disagreement in the wording of the corrective action portion of the permit. Mr. Clark confirmed receipt of the Ecology input, acknowledged the Ecology concern, and explained that the permit would continue to be worked over the next few months.

M-34-00 Spent Nuclear Fuel

DOE Division Director: P. Loscoe
Contractor Manager: R. Jones
Presenter: C. Rodriguez

Start: 9:45am Finish: 10:10am

Presentation of information provided in handout /Attachment 1.

All milestones with the M-34-00 series were reported as, "On Schedule".

- M-34-13A-T01 Delayed to 10/21/99. Letter sent within 60-days
- M-34-15A-T01 Verified that this event is on track and that final walkdowns were in progress. Will be completed on schedule, by the end of the month (October)
- Notice received within past week that the SNF Project was fully funded for FY-2000 (\$190M)
- Photos were available at the meeting of the Cold Vacuum Drying Facility, and discussed (additional photos not provided in the handout. Contact: Carole Rodriguez)
- Open House/Tour of the Canister Storage Building announced (11/3/99 – 11am to 1pm). Contact: Michelle Gerber

Regarding CSB progress – D. Sherwood questioned whether contracts/work on the Multi-Canister Over packs and baskets were within budget. Assured that the work was within the budget range.

Regarding K-Basins Safety Analysis (SAR) review – noted that the SAR was received back (approved) from RL 10/14/99. Pointed out that any future/new safety issues, arising after the SAR, would be handled through a different process that would include review against the SAR and the Authorization Safety Basis.

Regarding the Phased Startup Initiative – D. Sherwood questioned whether the process of phased startup would impact any other milestones, target dates, events. Assured that there would be no impacts. P. Day and C. Rodriguez briefly explained the schedule logic that provided that confidence.

Regarding upcoming events – noted that extra efforts were being applied to two events (CSB FSAR update to RL – 12/31/99 and obtaining RL approval of the CSB FSAR (goal) 12/29/99) to try to achieve completion ahead of schedule. Achieving these goals would relieve some pressure on completion of follow-on activities.

P. Loscoe noted that the resolution of the Cask Loadout System design and leak mitigation task has a new emphasis due, in part, to the relationship to the canister drop issue. Also, noted that the CSB Cask Drop Analysis feeds into the CSB FSAR task and completion goal.

M-20-00 Permits and Closure Plans

DOE Division Director: J. Rasmussen
Contractor Manager: R. Engelmann
Presenter: C. Clark

Start: 10:15am Finish: 10:40am

Presentation of information provided in handout/Attachment 2.

There was discussion regarding whether 224-T TRUSAF was appropriately designated as a Key Facility, as stated in the presentation. Attendees agreed that this was an **incorrect** designation and that 224-T should be addressed under Section 8 of the TPA.

Additional information was provided regarding accomplishments of the past 3 months (Att. 2, Handout pg. 2):

- 222-S Laboratory Complex, Revision 8 - *Ongoing*
- B-Plant Complex, Revision 7 - *Currently in Ecology hands*
- Central Waste Complex, Revision 6 - *Heading for appeal, following dispute*
- IHLW Interim Storage Facility, Revision 0 - *Ecology has accepted (involves part of the CSB)*
- Low Level Burial Ground, Revision 12 - *On Hold. SEPA needs solid waste EIS to complete*
- Purex Plant, Revision 9 - *Ongoing. Close to approval*
- T-Plant Complex, Revision 8 - *Ongoing. Completion complicated by change of mission*
- WRAP Facility, Revision 2 - *Headed for appeal*

The transfer of co-operator responsibilities from FDH to BHI, and the submittal of a revised/new Hanford Facility Dangerous Waste Part A Permit reflects the prime contractor changes that have recently taken place (Att. 2, Handout pg. 2).

Submittal of revised/new Hanford Facility Dangerous Waste Part A permit application Form 3s for, 1) DST System Part A, 2) SST System Part A, 3) Grout Treatment Facility Part A, and 4) 204-AR Waste Unloading Station Part A, all reflect the (new) LMHC co-authorship and responsibility (Att. 2, Handout pg. 2).

Three reviews are ongoing simultaneously: Hanford Facility RCRA Permit, 1) Modification E documentation to Ecology, 2) Public Comment on the permit Revision 6, and 3) Public Comment on the permit transfer of corrective action authority from EPA to Ecology. It was noted in the presentation that the Finalized Permit Modification Schedule through the year 2004, includes all of the ORP units. (Att. 2, Handout pg. 3)

There was discussion regarding whether a Form 3 was needed/appropriate for the 2401-W Storage Building (partial closure of the Central Waste Complex (CWC)). This discussion is ongoing. (Att. 2, Handout pg. 4)

M-32-00 Waste Tanks/Corrective Action (non-TWRS Milestones)

DOE Division Director: J. Augustenburg
Contractor Manager: R. Engelmann
Presenter: R. Guercia

Start: 10:40am Finish: 10:45am

Presentation of information provided in handout/Attachment 3.

Milestones M-32-01 through M-32-07 were reported as "Complete". It was noted that milestone M-32-08 had been deleted. There was no further discussion about any aspect of this presentation.

NOTE: Milestone M-32-06 is an ORP milestone that is currently being worked through the dispute process. Mr. D. Sherwood requested that Milestone M-32-06 be placed on the agenda for the next (i.e., November) IAMIT meeting.

M-26-01 Land Disposal Restrictions (LDR) Annual Report

DOE Division Director: G. Sanders
Contractor Manager: E. Aromi
Presenter: M. Jarvis

Start: 10:45am Finish: 11:10am

Presentation of information provided in handout/Attachment 4.

Mr. D. Sherwood questioned whether the designation of this milestone was correct – stating that he thought this was actually the, "M-26-00", milestone. Also questioned whether the, "-01", designator was correct, and whether it should have been, "-0i", or "-01i". This was researched during the meeting and the, "M-26-01", label was found to be correct. Mr. Sherwood confirmed this finding and agreed that the designation currently used, was correct. Mr. Sherwood also acknowledged that this item was NOT the M-26-00 milestone, as he had originally questioned.

In the presentation of the Accomplishments/Activities topic, it was noted that, 1) resolution of TPA and NOC issues resulting from Ecology's 6/3/99 NOC, and 2) implementation of the TPA dispute process via the 10/18/99 Statement of Dispute, would be combined via the 10/26/99 IAMIT meeting action (*"Approval of LDR Dispute Resolution Extension"*).

M-19-00 Mixed Waste Treatment

M-91-00 Acquisition of Facilities to TSD TRU/TRUM, LLMW and GTC3

DOE Division Director: J. Augustenburg

Contractor Manager: R. Engelmann

Presenter: R. Guercia

Start: 11:10am Finish: 11:20am

Presentation of information provided in handout/Attachment 5.

Brief walk-through of main schedule items shown in handout (summary) schedule.

Noted that M-91-07 ("*Complete Project W-113 for Post 1970 CH TRU/TRUM retrieval*"), due 9/2004, was in jeopardy due to funding restrictions/constraints. (Att. 5, Handout, pg. 4)

Noted that M-19-00 was currently running ahead of schedule, with the completed processing of 371 cubic meters of CH-LLMW waste vs the milestone goal of 246 cubic meters by 9/2000. (Att. 5, Handout, pg. 5)

Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review



Carole Rodriguez
U.S. Department of Energy,
Richland Operations

October 26, 1999



Tri-Party Agreements through December 31, 2000

Spent Nuclear Fuel Project

<i>TPA Milestone</i>	<i>Description</i>	<i>Responsible Managers</i>	<i>Due Date</i>
M-34-03	Submit Proposed Plan and Focused Feasibility Study for Remedial Action for the K Basins	Eric Gerber (Paul Day)	11/30/98 <i>(Complete 11/20/98)</i>
M-34-05-T01	Submit report on quantities, character, and management of K Basins debris	Jim Wicks (Dave Watson)	Annual <i>(Complete 5/24/99)</i>
M-34-11-T01	Complete construction of K West Basin Integrated Water Treatment System	Dean Siddoway (Bob Rasmussen)	6/30/99 <i>(Complete 6/21/99)</i>
M-34-13A-T01	Complete construction and installation of K West Basin Spent Nuclear Fuel Retrieval System	Dean Siddoway (Bob Rasmussen)	7/31/99 <i>(Complete 9/30/99)</i>
M-34-15A-T01	Complete two bays of the Cold Vacuum Drying Facility construction and installation	Dean Siddoway (Mike Wiemers)	10/31/99
M-34-14A	Complete K West Basin Cask Facility Modifications	Dean Siddoway (Bob Rasmussen)	2/29/00
M-34-04	Submit Remedial Design Report/ Remedial Action Work Plan for the K Basins	Dan Kimball (Paul Day)	3/31/00
M-34-15B-T01	Complete remaining bay(s) of the Cold Vacuum Drying Facility construction and installation	Dean Siddoway (Mike Wiemers)	6/30/00
M-34-13B-T01	Complete construction and installation of K East Basin Spent Nuclear Fuel Retrieval System	Dean Siddoway (Bob Rasmussen)	11/30/00
M-34-16	Initiate removal of K West Basin Spent Nuclear Fuel	Jim Wicks (Jim Mathews)	11/30/00
M-34-06-T01	Initiate K West Basin spent nuclear fuel canister cleaning operations	Dean Siddoway (Bob Rasmussen)	12/31/00

TPA Milestone Status

- Milestone M-34-15A-T01 "Complete two bays of the Cold Vacuum Drying Facility construction and installation. The first two bays of the Cold Vacuum Drying Facility shall be constructed, all process equipment installed, and acceptance tests completed"
 - Status: *On schedule*
- Milestone M-34-14A "Complete K West Cask Facility modifications. The K West Cask System Facility modifications shall be constructed, installed and acceptance test(s) completed"
 - Status: *On schedule*
- Milestone M-34-04 "The DOE shall submit a Remedial Design Report/Remedial Action Work Plan for the K Basins Interim Action to EPA and Ecology for approval. This Work Plan shall be constrained by these (M-34-98-01A) Agreement milestones and target dates, and shall propose detailed schedules for initiating and completing activities required for the removal of hazardous substances from K Basins (spent nuclear fuel, sludge, debris and water)"
 - Status: *On schedule*
- Milestone M-34-15B-T01 "Complete remaining bay(s) of the Cold Vacuum Drying Facility construction and installation. The remaining bay(s) of the Cold Vacuum Drying Facility shall be constructed, all process equipment installed, and acceptance tests completed"
 - Status: *On schedule*
- Milestone M-34-13B-T01 "Complete construction and installation of K East Basin Spent Nuclear Fuel Retrieval System. The K East Basin spent nuclear fuel retrieval system shall be constructed, installed, and acceptance test(s) completed"
 - Status: *On schedule*



TPA Milestone Status (Continued)

- Milestone M-34-16 "Initiate removal of K West Basin Spent Nuclear Fuel. The Cold Vacuum Drying (CVD) Facility and Canister Storage Building (CSB) shall be ready to receive spent nuclear fuel. The spent nuclear fuel transport system shall be operable. The K West Basin spent nuclear fuel retrieval system shall begin retrieving, cleaning, and packaging spent nuclear fuel, and the first Multi-Canister Overpack of spent nuclear fuel will be loaded and transported to the Cold Vacuum Drying Facility for processing"
 - Status: *On schedule*
- Milestone M-34-06-T01 "Initiate K West spent nuclear fuel canister cleaning operations. Canister cleaning operations consist of removal of all contents from each canister and processing of the canisters through the radioactive decontamination apparatus"
 - Status: *On schedule*



Significant Accomplishments

- **K West Basin Fuel Removal Projects**
 - ***Completed construction and installation of the Fuel Retrieval System in K West Basin (M-34-13A-T01)***
- **Cold Vacuum Drying Facility progress**
 - ***Received and installed the process water conditioning skid and ion exchange modules (IXMs)***
 - ***Released contractor to procure long lead components for Bay 3 Process Equipment Skid (PES) and Hood***
 - ***Completed construction and installation of first two bays; acceptance tests in progress***
- **Canister Storage Building progress**
 - ***Completed sample station installation and pre-operational testing***



Significant Accomplishments ***(Continued)***

- **Placed contracts for Multi-Canister Overpacks and baskets**
- **Environmental Protection Agency (EPA) issued Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Record of Decision for K Basin Remediation**
- **Nuclear Safety Documentation**
 - ***Multi-Canister Overpack Topical Report submitted to RL (10/15/99)***
 - ***Cold Vacuum Drying Facility FSAR and TSR submitted to RL (10/15/99)***
 - ***K Basins Safety Analysis Review***
 - **Submitted updated SAR (9/30/99)**
 - **Received SER from RL (10/14/99)**
- **Developed integrated schedule for Phased Startup Initiative (PSI)**



Phased Startup Initiative

- **Scope**
 - ***Integrated operation of the Fuel Retrieval System (FRS) and Integrated Water Treatment System (IWTS), such that cold testing and processing with dummy fuel precedes testing with actual fuel***
- **Purpose**
 - ***Determine how FRS and IWTS will respond while processing actual fuel***
 - ***Identify problems for early mitigation***
 - ***Validate the functional requirements of the design***
 - ***Enhance probability of achieving M-34-16, Initiate Removal of K West Basin SNF***
- **Benefits**
 - ***Operator proficiency***
 - ***Prepare for Operational Readiness***
 - ***Verify equipment operations***



Upcoming Activities

- **RL Approve CVD FSAR (November 15, 1999)**
- **RL Approve MCO Topical (November 15, 1999)**
- **Submit CSB FSAR update to RL (November 30, 1999)**
- **Start functional testing Phase 1 of IWTS & FRS as part of PSI (December 31, 1999)**
- **Start installation of CSB lower impact absorbers (December 15, 1999)**
- **Submit CTFM Cask Loadout FSAR update to RL (December 20, 1999)**
- **RL approve CSB FSAR (Goal: December 29, 1999)**
- **RL approve CTFM Cask Loadout FSAR update (January 24, 2000)**
- **Start installation of CSB overpack plugs (January 24, 2000)**
- **CSB welding station installation (February 2, 2000)**
- **Start installation of CSB standard plugs (March 1, 2000)**
- **Start functional testing Phase 3 of IWTS & FRS as part of PSI (May 31, 2000)**



SNF Project Issues/Concerns

- **Budget for FY2000**
- **Resolution of Cask Loadout System design and leak mitigation for K East Basin with EPA**
- **Canister Storage Building Cask Drop Analysis**
- **Resolution of Fuel Crumbling Phenomena**



Permitting and Regulatory Issues

- None

Non-TPA Regulatory Issues with Potential to Impact TPA Milestones

- None



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

\$ in 000s

	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SCHEDULE VARIANCE</u>	<u>COST VARIANCE</u>	<u>BAC</u>
EXPENSE	\$129,863	\$126,469	\$126,566	(\$3,394)	(\$96)	\$129,863
CAPITAL EQUIPMENT	15,278	15,183	15,773	(95)	(590)	15,278
GENERAL PLANT PROJ	85	85	82	(0)	3	85
LINE ITEM	<u>44,844</u>	<u>43,176</u>	<u>43,375</u>	<u>(1,668)</u>	<u>(199)</u>	<u>44,844</u>
TOTAL	\$190,070	\$184,912	\$185,795	(\$5,157)	(\$883)	\$190,070

Schedule Variance

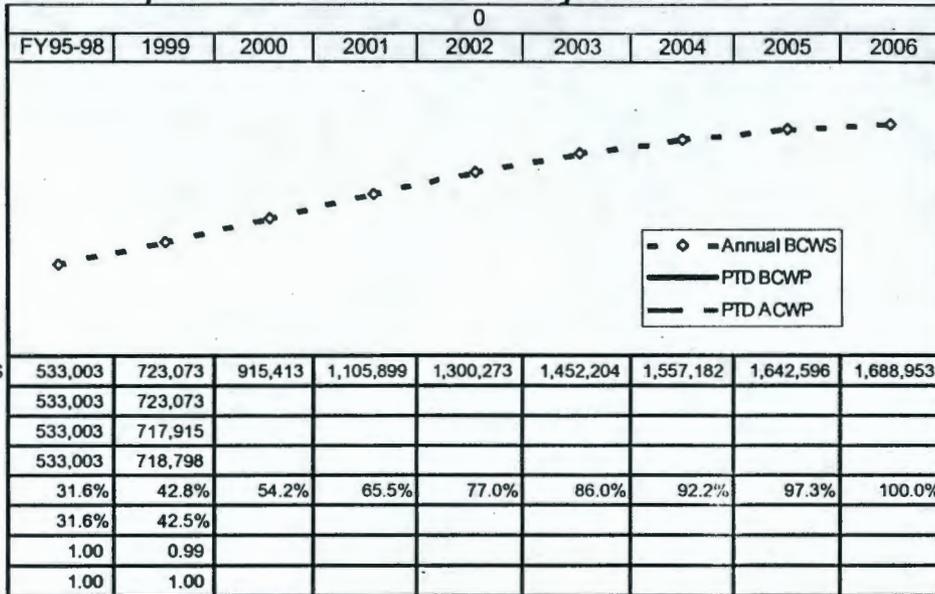
- Within tolerance (2.7%)

Cost Variance

- Within tolerance (.48%)



Hanford Spent Nuclear Fuel Project



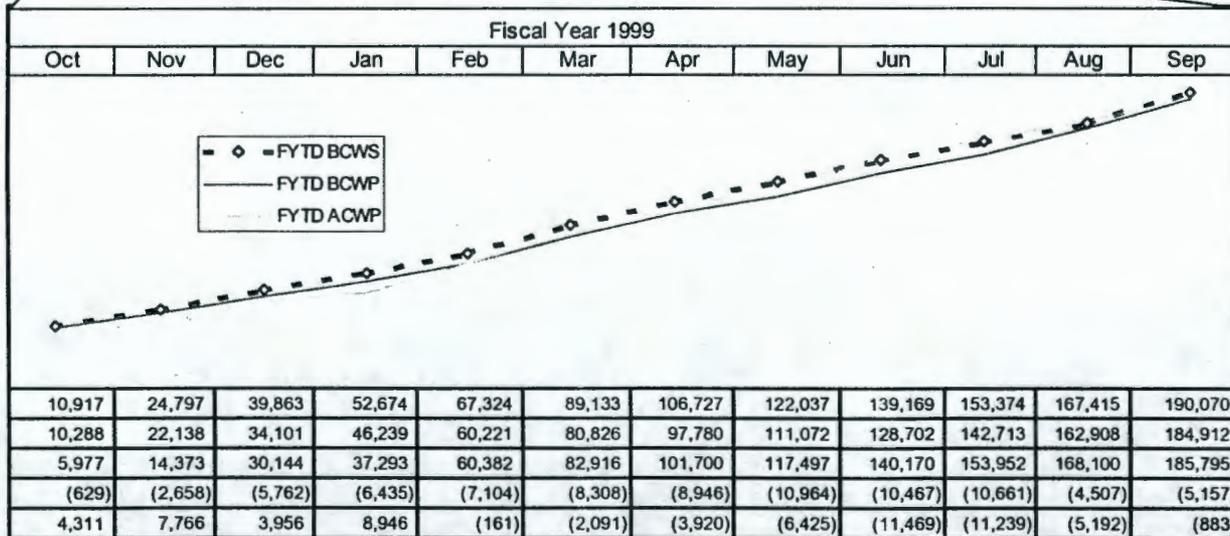
Life Cycle	
*BAC=	1,714,888
EAC=	1,714,888
CV=	0
Trend=	-

* Includes \$25,935K for FY2007

Year End	
BCWS	190,070
Forecast	190,070
Delta	-

Project to Date	
BCWS=	723,073
BCWP=	717,915
ACWP=	718,798
SV=	(5,157)
CV=	(883)

SNF Project - Total Project Baseline



Hanford Spent Nuclear Fuel Project

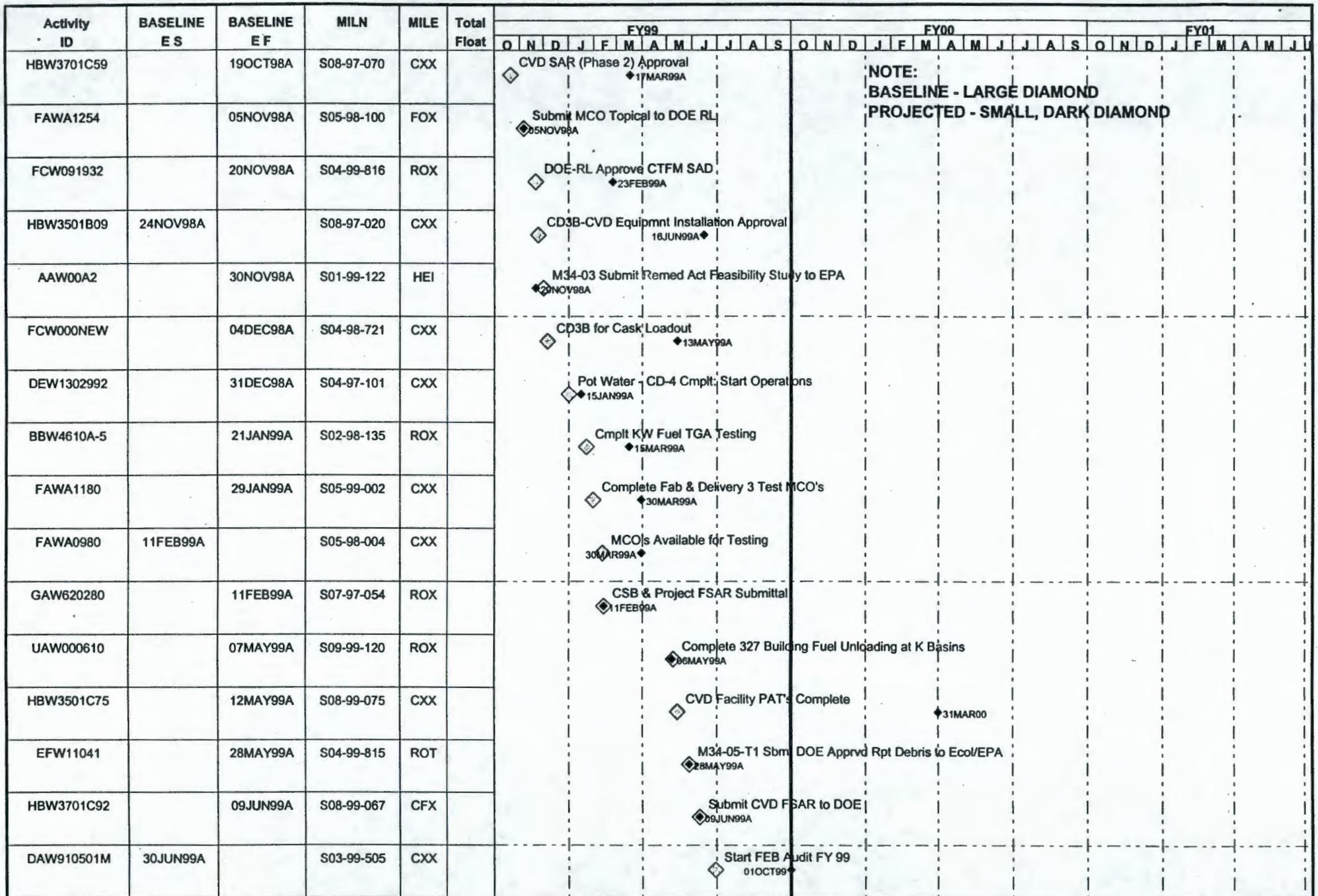
(\$ IN 000'S)

—FYTD—

EXPENSE:	BCWS	BCWP	ACWP	SCHED VAR	COST VAR	FYTD	FYTD	BAC
						ESTIMATED ACTUALS	ESTIMATED COST VAR	
Project Management and Integration	27,220	27,125	23,924	(95)	3,201	23,924	3,201	27,220
* Site Wide SNF Projects (327 Fuel Transfer)	2,032	2,032	1,887	(0)	146	1,887	146	2,032
Project Mgmt. and Integration (Project Fee)	7,005	7,005	7,005	0	(0)	7,005	(0)	7,005
* K Basins Maint. and Oper. (Through F.M.)	34,149	34,024	36,035	(125)	(2,012)	36,035	(2,012)	34,149
Site Wide SNF Projects (N Basin Fuel Mvmt.)	44	44	44	0	1	44	1	44
K Basins Maint. and Oper. (Assoc. w/ Transition)	0	0	(1)	0	1	(1)	1	0
K Basin Project Support	619	619	497	0	122	497	122	619
* K Basins Facility Projects (Des/ Mod/ Const)	7,642	7,642	7,682	0	(40)	7,682	(40)	7,642
* Fuel Retrieval Project (Des/ Mod/ Const)	13,666	13,355	14,332	(311)	(977)	14,332	(977)	13,666
* Water Treatment (Des/ Mod/ Const)	1,089	1,089	1,533	0	(444)	1,533	(444)	1,089
* Debris Removal Project (Des/ Mod/ Const)	346	346	288	0	58	288	58	346
* MCO Acquisition (Des/ Mod/ Const)	6,236	5,234	6,039	(1,002)	(805)	6,039	(805)	6,236
Cask Transportation System (Des/ Mod/ Const)	299	265	194	(34)	71	194	71	299
* K Basin Cold Vacuum Facility (Des/ Mod/ Const)	2,817	2,817	3,211	0	(394)	3,211	(394)	2,817
Debris Removal Project. (During F.M.)	0	0	0	0	(0)	0	(0)	0
* SNF Relocation Common Operations	19,266	17,445	16,503	(1,821)	941	16,503	941	19,266
* K Basin CVD Facility (Operations)	330	330	240	0	90	240	90	330
* Sludge Removal Project (Des/ Mod/ Const)	475	475	461	(0)	14	461	14	475
* Sludge Treatment Project (Des/ Mod/ Const)	2,485	2,485	2,419	0	67	2,419	67	2,485
Sludge Retrieval/ Removal Operations	0	0	0	0	(0)	0	(0)	0
Transition Project Management	144	144	105	(0)	39	105	39	144
* Canister Storage Bldg. Facility (Des/ Mod/ Const)	2,439	2,439	2,663	0	(224)	2,663	(224)	2,439
* Canister Storage Building Operations	381	381	265	0	116	265	116	381
* Site Wide SNF (Des/ Move Fuel to 200 ISA)	<u>1,179</u>	<u>1,173</u>	<u>1,240</u>	<u>(6)</u>	<u>(67)</u>	<u>1,240</u>	<u>(67)</u>	<u>1,179</u>
SUBTOTAL EXPENSE	129,863	126,469	126,566	(3,394)	(96)	126,566	(96)	129,863
CAPITAL EQUIPMENT:								
Project Management and Integration	0	0	(0)	0	0	(0)	0	0
* K Basins Facility Projects (Des/ Mod/ Const)	2,014	2,014	2,790	(0)	(776)	2,790	(776)	2,014
* Water Treatment (Des/ Mod/ Const)	7,968	7,968	7,863	(0)	105	7,863	105	7,968
* Cask Transportation System (Des/ Mod/ Const)	0	0	5	0	(5)	5	(5)	0
* SNF Relocation Common Operations	0	0	49	0	(49)	49	(49)	0
* Canister Storage Bldg. Facility (Des/ Mod/ Const)	<u>5,296</u>	<u>5,201</u>	<u>5,065</u>	<u>(95)</u>	<u>136</u>	<u>5,065</u>	<u>136</u>	<u>5,296</u>
SUBTOTAL CAPITAL EQUIPMENT	15,278	15,183	15,773	(95)	(590)	15,773	(590)	15,278
GENERAL PLANT PROJECTS:								
* Site Wide SNF (200 ISA Des/ Const)	<u>85</u>	<u>85</u>	<u>82</u>	<u>(0)</u>	<u>3</u>	<u>82</u>	<u>3</u>	<u>85</u>
SUBTOTAL GENERAL PLANT PROJECTS	85	85	82	(0)	3	82	3	85
LINE ITEM:								
Project Management and Integration	0	0	(523)	0	523	(523)	523	0
* K Basin Cold Vacuum Facility (Des/ Mod/ Const)	26,271	24,871	26,139	(1,400)	(1,268)	26,139	(1,268)	26,271
* Canister Storage Bldg. Facility (Des/ Mod/ Const)	<u>18,573</u>	<u>18,305</u>	<u>17,759</u>	<u>(268)</u>	<u>546</u>	<u>17,759</u>	<u>546</u>	<u>18,573</u>
SUBTOTAL LINE ITEM	44,844	43,176	43,375	(1,668)	(199)	43,375	(199)	44,844

SNF Project Financial Status thru September





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

Project Start	01OCT99		Early Bar
Project Finish	28SEP46		Projected Bar
Data Date	01OCT99		Progress Bar
Run Date	22OCT99		

BTPB

SPENT NUCLEAR FUEL PROJECT
 MONTHLY MILESTONE REPT (FY99-11/00)
 BASELINE vs. CURRENT SCHEDULE

Sheet 1 of 3

LT-63, Current Data Date 10/01/99			
Date	Revision	Checked	Approved

M-20 MILESTONE STATUS PERMITS AND CLOSURE PLANS



Clifford E. Clark
U.S. Department of Energy, Richland Operations Office
Site Services

October 26, 1999

ACCOMPLISHMENTS (last 3 months)

◆ Closure Plans

- ◆ 224-T TRUSAF was designated as a Key Facility and closure plan was removed from Modification E schedule
- ◆ 100 D Ponds closure was approved by Ecology with a request to re-submit the Part A, Form 3, page 1 stamped "Closed 8/9/99".



ACCOMPLISHMENTS (last 3 months)

Part A's:

- ◆ Submitted revised/new Hanford Facility Dangerous Waste Part A Permit Application, Form 3s, for the following units:
 - ◆ 222-S Laboratory Complex, Revision 8
 - ◆ B Plant Complex, Revision 7
 - ◆ CWC Revision 6
 - ◆ IHLW Interim Storage Facility, Revision 0
 - ◆ LLBG, Revision 12
 - ◆ Purex Plant, Revision 9
 - ◆ T Plant Complex, Revision 8
 - ◆ WRAP Facility, Revision 2

ACCOMPLISHMENTS (cont.) (last 3 months)

Part A's:

- ◆ Transferred co-operator responsibilities from FDH to BHI
 - ◆ 216-B-63 Trench
 - ◆ B Plant
 - ◆ Purex Plant
- ◆ Submit revised/new Hanford Facility Dangerous Waste Part A permit application, Form 3s, for the following units:
 - ◆ New Part A, Form 1, listing DOE as the Owner/Operator, and LMHC as a Co-operator.
 - ◆ DST System Part A, Form 3
 - ◆ Single-Shell Tank System Part A, Form 3
 - ◆ Grout Treatment Facility Part A, Form 3
 - ◆ 204-AR Waste Unloading Station Part A, Form 3

ACCOMPLISHMENTS (last 3 months)

◆ Part B

- ◆ Submitted Part B permit application update packages to Ecology (7/1/99) for inclusion in Modification E of the Hanford Facility RCRA Permit for the following units:
 - ◆ CWC
 - ◆ Waste Receiving and Processing Facility

◆ Form 2

- ◆ Ecology approved the Form 2, addressing continued DOE/RL waste management activities at the property formerly referred to as the 1100 Area on July 27, 1999, with an effective date on April 12, 1999. Ownership of this property was transferred to the Port of Benton on 9/30/98. The new ID number issued for the U.S. DOE Richland Industrial Center is WAH000009159.
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ACCOMPLISHMENTS (last 3 months)

◆ Hanford Facility RCRA Permit (Permit)

- ◆ Quarterly Class 1 modification packages submitted to Ecology in accordance with Permit Condition I.C.3 (7/2/99, 10/7/99)
 - ◆ Submitted Modification E documentation (616 Part B update package and 300 Area Waste Acid Treatment System Closure Plan) to Ecology (6/1/99)
 - ◆ Public comment period (60 days) began for Revision 6 of the Permit (10/4/99)
 - ◆ Public comment period (60 days) began for Permit transfer of corrective action authority from EPA to Ecology (10/18/99)
 - ◆ Completed Annual 300 Area Inspection
 - ◆ Completed Annual 200 East Area Inspection
 - ◆ Completed Annual Low River Inspection
 - ◆ Submitted remaining Modification E documentation (CWC and WRAP Part B update packages) to Ecology (7/1/99)
 - ◆ Finalized Permit Modification Schedule (Attachment 27) through the year 2004
-
- 

PLANNED ACTION (next 6 months)

Closure Plans

- ◆ Continue closure activities and/or discussions associated with the following units:
 - ◆ 616 Nonradioactive Dangerous Waste Storage Facility
 - ◆ 2401-W Storage Building (partial closure of CWC)
 - ◆ 221-T T Plant Canyon Tank System
 - ◆ 303-K Storage Facility
- ◆ Establish closure strategy for the 1706-KE Waste Treatment System



PLANNED ACTION (next 6 months)

Part A

- ◆ Resolve issues associated with submittal of the following Part A Permit Application, Form 3s:
 - ◆ Waste Encapsulation and Storage Facility, Revision 0
 - ◆ Revise Low-Level Burial Grounds to address Ecology comments.
 - ◆ Revise 216-B-63, Revision 4 to address Ecology comments



PLANNED ACTION (next 6 months)

◆ **Part B**

- ◆ Continue efforts associated with finalization of the following Part B permit applications for inclusion in Modification F of the Hanford Facility RCRA Permit:
 - ◆ 222-S Laboratory Complex



PLANNED ACTION (next 6 months)

◆ **Interim Status Requirements**

- ◆ Begin discussions on implementation of interim status requirements at WESF



PLANNED ACTION (next 6 months)

◆ Hanford Facility RCRA Permit (Permit)

- ◆ Submit Quarterly Class 1 Modification package to Ecology in accordance with Permit Condition I.C.3 (1/10/00)
- ◆ Submit annual closure cost estimate report to Ecology (10/30/99)
- ◆ Submit noncompliance report to Ecology (3/31/00)
- ◆ Submit annual dangerous waste report to Ecology (3/31/00)
- ◆ Public comment period ends for Revision 6 of the Permit (12/6/99)
- ◆ Public comment period ends for Permit transfer of corrective action authority from EPA to Ecology (12/20/99)
- ◆ Ecology issues final modification decision and responsiveness summary for Revision 6 of the Permit (12/31/99)



**Interim Status Dangerous Waste Tank
Systems Hanford Federal Facility
Agreement and Consent Order
Milestone M-32-00**

October 26, 1999

Milestone Description

"Complete Identified Dangerous Waste Tank Corrective Actions" - September 1999

M-32-00 establishes Tri-Party Agreement compliance schedules for correcting known compliance deficiencies in certain Hanford interim status dangerous waste tank systems while allowing the continued operation of those tank systems.

Deliverables and Baseline Schedules

- M-32-01 Complete PFP Actions - Dec 94**
- M-32-02 Complete 219-S Actions - June 99***
*Per TPA Change Request M-32-98-01
- M-32-03 Complete T Plant Actions - Sept 99**
- M-32-04 Complete DST Actions - June 94**
- M-32-05 Complete 242-A Evaporator Actions – May 94**
- M-32-06 Complete 244-AR Actions - prior to restart**
- M-32-07 Complete B Plant Actions - June 96**
- M-32-08 Complete Grout Actions – Deleted**
*Per TPA Change Request M-32-99-01

Milestone Assessment

- **Milestones due but not complete (next six months)**

None

- **Milestones in jeopardy (beyond six months)**

None

Interim Milestone M-32-02 219-S (222-S Lab)

Significant Accomplishments (last three months)

- **Project W-178 (tank system upgrades): Submitted TPA Interim Milestone M-32-02 completion notification to Ecology and EPA (06/28/99). Closed out project.**

Interim Milestone M-32-03

T-Plant (Project W-259/2706-T upgrades)

Significant Accomplishments (last three months)

- **Approved TPA Change Control Form M-32-99-03 clarifying Project W-259 rescope (06/17/99).**
- **Completed facility start-up activities (07/16/99).**
- **Start- up of new 2706-T Facility tank system (07/16/99).**
- **Submitted TPA Interim Milestone M-32-03 completion notification to Ecology (09/21/99). Closed out project.**

<p style="text-align: center;">LAND DISPOSAL RESTRICTIONS ANNUAL REPORT</p> <p style="text-align: center;">M-26-01</p> <p style="text-align: center;">Office of Regulatory Liaison M. F. Jarvis October 26, 1999</p>	<p><u>Milestone Description</u></p> <ul style="list-style-type: none"> • M-26-01 Submit an annual Hanford Site LDR Report accordance with the LDR Plan to cover the period from April 1 through March 31. • Deliverables Submit the "2000 Hanford Site Land Restrictions for Mixed Waste" to EPA and Ecology (M-26-01J). • Schedule Report submitted annually by April 30.
<p><u>RL Program Manager's Assessment of Contractor Performance</u></p> <ul style="list-style-type: none"> • Satisfactory performance, on schedule. <p><u>Accomplishments/Activities</u></p> <ul style="list-style-type: none"> • Working to resolve TPA and NOC issues resulting from Ecology June 3, 1999 NOC. • Implementing TPA dispute process (see Ecology September 17, 1999 Letters, below) with Statement of Dispute dated October 18, 1999. <p><u>Milestone Assessment - schedule and technical</u></p> <ul style="list-style-type: none"> • RL believes milestone submittals have been complete and on schedule. • Ecology maintains that the 1998 and 1999 LDR reports have deficiencies. 	<p><u>Planned Actions</u></p> <ul style="list-style-type: none"> • Resolve former alleged violation 1, 2, and 3 issues under the TPA dispute resolution process and alleged violation 4 under the NOC process. Begin LDR 2000 report preparation process November 12, 1999. <p><u>Potential Impacts on TPA</u></p> <ul style="list-style-type: none"> • Possibility of negotiating Milestone M-26-01 and/or requirements document language to reflect current needs.
<p><u>Budget</u></p> <p>Budget data is not available for FY 1999 because the budget for this report has been combined with several other environmental reports. The report itself is considered within the expected cost range with no unexpected costs to date. (Annual budget in the past has been around \$100K). NOC-related activities were unplanned and are adding costs to various programs.</p>	<p><u>Ecology September 17, 1999 Letters</u></p> <ul style="list-style-type: none"> • Approved 60-day extension of NOC response for alleged violation # 4 (to December 8, 1999). • Removed alleged violations 1, 2, and 3 from NOC and placed them under the TPA dispute resolution process. • Responded to August 18, 1999 RL comment response letter, placing former alleged violations 1, 2, and 3 associated corrective measures under the TPA dispute resolution process.

M-19-00 & M-91-00

WASTE PROGRAMS DIVISION
R. F. Guercia
October 1999

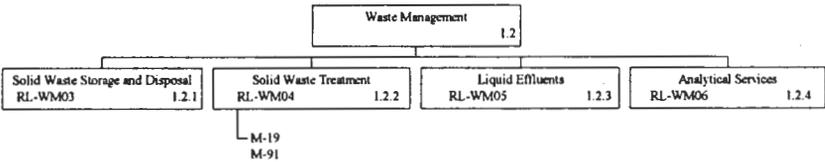
TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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MILESTONE DESCRIPTION

TPA MILESTONE	DESCRIPTION
M-19-00	Complete treatment and/or direct disposal of at least 1,644 cubic meters of contact handled low level mixed waste already in storage as of October 1, 1995, as well as newly generated Hanford Site low level mixed waste. Cumulative treatment and/or direct disposal rates will be at least 246 cubic meters by the end of FY 2000, 822 cubic meters by the end of FY 2001, and 1,644 cubic meters by the end of FY 2002.
M-91-00	Complete the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford site TRU/TRUM, LLMW, and GTC3.

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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WORK BREAKDOWN STRUCTURE



TPA1099.pdf 10/26/99

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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MILESTONE SCHEDULE

WBS (ADS)	BASELINE DATE	FISCAL YEAR 1999												STATUS				
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1.2.2 (RL-WM04) Solid Waste Treatment	9/30/99															(M-19-01) Initiate treatment of CH-LLMW	● ¹	RL submitted closure letter to Ecology July 20, 1999.
	12/31/98															(M-91-02) Initiate processing of CH-TRU/TRIM at WRAP 1	● ¹	Milestone completed November 1998.
	6/30/99															(M-91-10) Submit Hanford Site LLMW and GTC3 Waste PMP to Ecology	● ¹	PMP submitted to Ecology June 28, 1999.
MILESTONE TYPES:		○ ^M TPA MILESTONE	○ ^I TPA INTERIM	⊙ ^{DOE-10}	⊙ ^{DOE-FO}	◇ ^{FORECAST}	⊙ ^{DOE-RL}											

TPA1099.pdf 10/26/99

TPA MILESTONE REVIEW		WASTE MANAGEMENT PROJECT											OCTOBER 1999			
MILESTONE SCHEDULE																
WBS (ADS)	BASELINE DATE	FISCAL YEAR 2000														
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.2.2 (RL-WM04) Solid Waste Treatment	6/30/00													(M-91-03) Submit Hanford Site TRU/TRUM PMP to Ecology	○ ¹	On Schedule. To be funded using FY1999 carryover (savings).
	9/30/00													(M-91-04) Complete Construction of Retrieval Facility. Initiate TRU Retrieval	● ¹	TRU Retrieval began July 22, 1999. 269 drums assayed. 214 TRU/55 LLW. Partially funded in FY 2000 using FY1999 carryover (savings).
	9/30/00													(M-19-00) Cumulative Treatment Rate 246 cubic meters	▲	
MILESTONE TYPES:		○ ^M TPA MILESTONE	⊖ DOE-HQ	◇ FORECAST												
		○ ^I TPA INTERIM	⊗ DOE-RL	△ Treatment Rate												
TPA1099.ppt 10/26/99																

TPA MILESTONE REVIEW		WASTE MANAGEMENT PROJECT											OCTOBER 1999			
MILESTONE SCHEDULE																
WBS (ADS)	BASELINE DATE	FISCAL YEAR 2001														
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.2.2 (RL-WM04) Solid Waste Treatment	12/31/00													(M-91-11-T01) Submit LLMW Engineering Study/FDC.	○ ¹	Draft completed, based on PMP. Awaiting Ecology acceptance of PMP.
	12/31/00													(M-91-12) Initiate Thermal Treatment of LLMW.	○ ¹	On Schedule.
	6/30/00													(M-91-13) Initiate Disposal of LLMW.	● ¹	Trench 34 in Disposal Mode September 15, 1999.
	9/30/01													(M-19-00) Cumulative Treatment Rate 822 cubic meters	▲	Currently at 371 cubic meters (see Scorecard).
MILESTONE TYPES:		○ ^M TPA MILESTONE	⊖ DOE-HQ	◇ FORECAST												
		○ ^I TPA INTERIM	⊗ DOE-RL	△ Treatment Rate												
TPA1099.ppt 10/26/99																

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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MILESTONE EXCEPTION REPORT

TPA MILESTONE	FUTURE MILESTONES IN JEOPARDY
M-91-07	"Complete Project W-113 for Post 1970 CH TRU/TRUM retrieval" by September 2004.

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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M-19 ACCOMPLISHMENTS

WBS 1.2.2.3	M-19-01-T03
	<u>LOW LEVEL MIXED WASTE TREATMENT</u>
	Initial shipments of waste to ATG occurred in September 1999. More waste has been staged and is ready to ship for treatment at ATG.
	25 cubic meters of backlog soils moved from storage to direct disposal.
	WERF Burn completed. Awaiting residue returns for stabilization in FY2000.

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
----------------------	--------------------------	--------------

M-19-00 SCORECARD

“Treat and/or directly dispose of at least 246 cubic meters of CH-LLMW by September 2000, 822 cubic meters by September 2001, and 1,644 by September 2002”	Quantity in cubic meters
M-19 Waste:	
– Macroencapsulation Pilot	183
– Long Length Equipment	95
– Backlog Soils Disposal (1997)	54
– Backlog Soils Disposal (1999)	25
– B Plant Organic Liquid (TBP)	11
– Mixed Waste from PNNL	2
– Lead Decontamination Project	1
TOTAL M-19 WASTE	371

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
----------------------	--------------------------	--------------

M-91 ACCOMPLISHMENTS

WBS 1.2.2.3	M-91 LLMW and TRU Waste Facilities
	<p>Submitted LLMW PMP June 28, 1999.</p> <p>Initiated retrieval of TRU waste at 218-W-4C, Trench 29. Assayed 269 drums in preparation for moving TRU drums to CWC and LLW drums to another trench.</p> <p>Initiated disposal of CH-LLMW at 218-W-5, Trench 34.</p>

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
----------------------	--------------------------	--------------

PLANNED ACTIONS

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-19-00	Receive WERF Burn residues for stabilization and disposal in the Mixed Waste Trench.	3/30/2000
M-19-00	Treat 1060 cubic meters (560 m ³ is FY1999 scope, 500 m ³ is new scope) of mixed low-level waste using the non-thermal treatment contract with ATG. Treatment is currently scheduled to begin in January, 2000.	9/30/2000

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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PLANNED ACTIONS (continued)

TPA MILESTONE SUPPORTED	DESCRIPTION	SCHEDULED COMPLETION DATE
M-91-07	Renegotiate milestones to match funding profile.	12/31/1999
M-91-03	Prepare the Hanford Site TRU/TRUM Waste Project Management Plan.	6/30/2000
M-91-04	Retrieve a minimum of 400 drums.	9/30/2000

TPA1088.ppt 10/28/99

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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EXPENSE COST PERFORMANCE
(\$ in Millions)

WBS	FY 1999 TO DATE (Sep)					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST		VARIANCE	BAC	EAC	FY99	EXPECTED FINDER FY 99	PROJECTED CARRYOVER WORK	
	SCHED	PERF	WORK	PERF							
1.2.2.3 M-19 AND M-91 TREATMENT	1.6	1.0	0.9	<0.6>	0.1	1.6	6.5	0.9	6.1	5.82	Carryover: \$3.1 M T for C \$0.32 M TRU Retrieval \$0.1 M TSD Aging Drums \$0.2 M ATG Treatment

\$2.053 M deferred to FY2000 due to ATG Delays (CR WM-99-010)

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TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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EXPENSE COST VARIANCE ANALYSIS

WBS	COST VARIANCE \$106K	
1.2.2.3	(Description and Cause: - LLMW treatment administrative costs and thermal treatment planning did not require as much outside technical support as planned.	(Impacts and Corrective Action: No impacts.

TPA1099.pdf 10/26/99

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
----------------------	--------------------------	--------------

EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS	SCHEDULE VARIANCE \$649K	
	(Description and Cause:)	(Impacts and Corrective Action:)
1.2.2.3	<ul style="list-style-type: none"> ATG permitting has delayed LLMW treatment contract. Construction work could not start without the permit. 	<ul style="list-style-type: none"> ATG permit was effective 7/7/99 and construction has been started. The construction delays limit the volume of waste that could be shipped to 29 cubic meters. Work will be performed in FY2000.

TPA1099 ppt 10/26/99

TPA MILESTONE REVIEW	WASTE MANAGEMENT PROJECT	OCTOBER 1999
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M-19 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-19-00	8/98	ATG's final draft permit was issued to public review by Ecology and EPA almost two months behind schedule.	The current implementation schedule for non-thermal treatment of 560 cubic meters using the contract with ATG is extremely tight.	ATG Treatment of Hanford LLMW will begin in FY2000, instead of FY1999 as originally planned.

TPA1099 ppt 10/26/99

TPA MILESTONE
REVIEW

WASTE MANAGEMENT PROJECT

OCTOBER 1999

M-91 ISSUES

TPA MILESTONE	DATE IDENT	ISSUE	IMPACT	STATUS
M-91-07	6/99	Milestone cannot be accomplished as written due to funding limitations.	Replacement milestone will need to be renegotiated.	Replacement milestone will be based on funding profile.

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