

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

PROJECT MANAGERS MEETING  
2420 Stevens Center, Room 126  
Richland, Washington

November 14, 1995  
2:00 p.m. to 4:00 p.m.

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting (PMM).

*E. M. Greager*

Date: 1/14/96

E. M. Greager, Contractor Representative, Westinghouse Hanford Company

*D. E. Jackson*

Date: 1-16-96

D. E. Jackson, Unit Manager, Department of Energy, Richland Operations Office

*R. W. Wilson*

Date: 01/23/96

R. W. Wilson, Unit Manager, Washington State Department of Ecology



Purpose: Discuss current status and issues related to Milestone M-32-00.

Meeting minutes are attached. The minutes are comprised of the following:

- Attachment 1 - Agenda
- Attachment 2 - Summary of Discussion, Agreements and Actions
- Attachment 3 - Attendance List
- Attachment 4 - B Plant Status/Issue Presentation
- Attachment 5 - Proposed B Plant Change Control Form M-32-95-02
- Attachment 6 - Proposed 340/RLWS Change Control Form M-32-95-01

MILESTONE M-32-00  
PROJECT MANAGERS MEETING  
2420 Stevens Center, Room 126  
Richland, Washington

November 14, 1995  
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Agenda

I. MILESTONE M-32 ISSUES

- a. PFP - C-031H transfer piping leak test  
T Plant - Engineering evaluation of updated CDR  
DST - Ultrasonic testing equipment delays
- b. 219-S - Project W-178 (tank upgrades) status  
Project W-087 (line replacement) scope change (does not impact milestone scope)
- c. B Plant - Revision to interim milestone M-32-07 and target action M-32-07-T05
- d. 340 - 340 Vault tank integrity assessment  
340 Complex management strategy  
Generator Building visual inspections

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Summary of Discussion, Agreements and Actions

- A. R. Sherwood (WHC) provided the following updates on PFP, T Plant, and DST:
  - PFP - Work plans are in place, and awaiting Plant approval, to perform the transfer piping leak test on the lines between 236-Z and 241-Z. These lines are not in use and may never be used. This test has been identified as a pre-start item.
  - T Plant - Project W-259 (tank system upgrades) has been rescoped (canyon has been removed from the project). An engineering evaluation of the updated CDR is being drafted and will be submitted to Ecology.
  - DST - Ultrasonic equipment testing has been delayed. The ultrasonic equipment was not assembled as required. An alternative company is being sought. Work progresses towards the drafting of a new DST interim milestone in M-32.
- 219-S: M. J. Hall (WHC) and J. J. Beyer (WHC) provided the following update:

Project W-178, Phase I construction has begun. During construction, the 219-S vault will have an interim system configuration that will allow the facility to continue operating though at a diminished capacity. Tank 104 (new) will be installed with a new secondary containment liner and will be operational while existing Tanks 101 and 102 undergo an assessment evaluation. The project will use these existing tanks once the evaluation is successfully completed. The evaluation report is expected in approximately four weeks. Mr. Beyer invited Ecology to review the evaluation criteria. Mr. Greager suggested that Ecology could use this opportunity as one of their "technical assistance" visits.

A new proposed target action for Project W-178 committing to the completion of construction will need to be proposed. A change control form is expected to be submitted by December 1995.

Project W-087, Phase I (replacement lines between 219-S and 244 DCRT) completion of construction is expected by late February. A short readiness assessment period is expected and no notification to Ecology will be made (none need) before starting up this part of the line. An assessment package meeting the WAC 173-303-640(3) requirements and having an IQRPE 's signature will be completed by that time.

Phase II (replacement lines between 222-S and 219-S) decommissioning, decontamination, and disposal of existing lines within the hot tunnels of 222-S has been deferred due to budget reductions. The rescoping of this work will not impact the target action (M-32-02-T02) scope or completion date.

- B Plant: S. E. Killoy (WHC) handed out a status/issue presentation on the B Plant interim milestone (attachment 4). This presentation provided updates on target actions M-32-07-T01 through -T05 and justification on the change control form revision to -T05 and addition of -T06.

As part of the change control form (M-32-95-02, attachment 5), a revision to the completion date on -T05 was proposed. The proposed June 1996 date was selected based on time needed to reduce organic solvent waste radioactive levels to acceptable shipping levels. Ecology wanted to verify that the June 1996 date was sufficient time to accomplish this. Mr. Killoy confirmed that it was.

Target action -T06 was added to provide a method of managing the aqueous waste generated during operations to remove radionuclides from the organic solvent waste. This target action will provide a plan on the taking of samples for use by Tank Farms, so that a transfer method, piping route and tank can be designated for the removal of the aqueous waste from B Plant. Mr. Wilson asked that this plan include the management strategy to be used while the aqueous waste is still in B Plant (i.e., if tank currently holding the aqueous waste leaks, identify what tank waste will be moved to...)

Changing the second paragraph of proposed target action -T06 to read "After completion of target action M-32-07-T06, continue daily monitoring..." was suggested by F. T. Calapristi (WHC). This change was acceptable to all and will be incorporated.

- 340/RLWS: R. W. Szelmezcza (WHC) provided an update on the 340 Vault tank integrity assessment and on the condition of the RLWS valve boxes.

The integrity assessment is on schedule; a visual examination of the vault has been completed and a holding test on the 340 tanks is scheduled to be completed by December 1995. The test will be performed after their next shipment and the test medium will be incorporated into the shipment after that.

The RLWS valve boxes have all been visually inspected. All but one box are in good condition. The one box that is in need of repair is not used for transfer of dangerous waste. R. W. Wilson (Ecology) asked if waste could be detected and removed before spilled liquid would top the valve boxes' coating height. Mr. Szelmezcza assured that waste would be detected and removed before spilled liquid would top the valve boxes' coating height. Pictures of the valve box interiors are available.

S. L. Jones (PNL) outlined the visual inspection program for the RLWS within generator buildings. Mr. Stanley gave copies of the memo that implemented the program to Mr. Wilson and assured him that it had received approval from the appropriate level of management.

Mr. Wilson was also given a copy of the proposed 340/RLWS interim milestone (M-32-95-01, attachment 6). Mr. Wilson said that he would pass on the proposed interim milestone and the information from this discussion to C. D. Stuart (Ecology) who was unable to attend this meeting.

**Attachment 3**  
Attendance List



**Attachment 4**

**B Plant Status/Issue Presentation**

B PLANT STATUS/ISSUES (M-32-07)  
M-32 UNIT MANAGERS MEETING  
November 14, 1995

STATUS

- M-32-07-T01: COMPLETED ON 4/30/94
- M-32-07-T02: COMPLETED ON 10/31/94
- M-32-07-T03: FINAL REPORT SUMMARIZING RESULTS OF TESTING UNDER REVIEW BY IQRPE. ON SCHEDULE FOR COMPLETION AND SUBMITTAL TO ECOLOGY BY 12/31/95.
- M-32-07-T04: ORGANIC WASTE CONSOLIDATED INTO TWO TANKS. EXTERNAL VISUAL INSPECTION AND STRUCTURAL INTEGRITY TEST (STATIC HOLD TEST) ON SCHEDULE FOR COMPLETION BY 12/31/95.
- M-32-07-T05: INITIAL CHEMICAL SEPARATIONS OF RADIONUCLIDES COMPLETED ON 9/19/95. FURTHER SEPARATIONS NEEDED TO SUPPORT DISPOSITION ALTERNATIVES. AGREEMENT REACHED WITH ECOLOGY ON NOVEMBER 1, 1995 TO MODIFY LANGUAGE AND COMPLETION DATE TO SUPPORT ADDITIONAL WORK (SEE ISSUES FOR PROPOSED CHANGES).

## ISSUES

### M-32-07-T05 REVISION:

- CHANGE CONTROL FORM ATTACHED.

### AQUEOUS WASTE ISSUES (FROM ORGANIC STRIKES):

- 7,000 GALLONS OF AQUEOUS WASTE BEING STORED IN PERMITTED TANKS IN B PLANT CANYON.
- WASTE GENERATED DURING CAUSTIC STRIKES ON ORGANIC.
- WASTE WILL BE TRANSFERRED TO DSTs AT TANK FARMS.
- TANK FARMS RECEIPT OF WASTE
  - WASTE STILL MUST BE CHARACTERIZED TO MEET TANK COMPATIBILITY REQUIREMENTS.
  - ROUTES NEED TO BE ESTABLISHED BASED ON CHARACTERIZATION (i.e., TOC, Sr).
- SCHEDULE FOR TRANSFER UNDETERMINED (See Change Control Form)
- PERFORM DAILY MONITORING OF TANK VOLUMES UNTIL TRANSFER OF WASTE TO DSTs.
- PLANNED FOR REMOVAL FROM TANKS BY DECEMBER 1995 WHEN M-32-07-T04 AND T05 WERE NEGOTIATED. TRANSFERS DELAYED BY VARIOUS TECHNICAL ISSUES (e.g., routing, characterization)
- APPROVAL FROM ECOLOGY TO CONTINUE DAILY MONITORING OF AQUEOUS TANK WASTE VOLUMES IN LIEU OF PERFORMING VISUAL INSPECTIONS, INTEGRITY TESTING/ASSESSMENTS, OR SECONDARY UPGRADES UNTIL WASTE TRANSFERRED TO DSTs.

**Attachment 5**

Change Control Form M-32-95-02

Change Number M-32-95-02	<b>Federal Facility Agreement and Consent Order          Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	Date Nov. 14, 1995
Originator S. E. Killoy		Phone (509) 372-0183
Class of Change <input type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager		
Change Title Revision to B Plant Interim Milestone M-32-07 and to Target Action M-32-07-T05 and addition of Target Action M-32-07-T06.		
Description/Justification of Change <p>The completion date for the B Plant interim milestone M-32-07 is being changed due to the modifications (discussed below).</p> <p>Target action M-32-07-T05 is being revised to reflect actions required to support current disposition plans for the B Plant organic solvent waste. M-32-07-T05 was originally established to provide for actions to reduce the radionuclide content of the waste in support of waste characterization, storage, and evaluation of disposition alternatives. A disposal facility has been identified to handle the B Plant waste if radiological levels can be reduced to meet transportation and the disposal facilities requirements. The revisions to M-32-07-T05 will support this action. In the event that radiological levels in the waste cannot be reduced to meet the necessary criteria for disposal, parallel alternatives for compliant storage outside of the B Plant canyon are being pursued.</p> <p>See attached sheet for continuation:</p>		
Impact of Change <p>This change establishes a new completion date for B Plant interim milestone M-32-07 and target action M-32-07-T05. It also revises the scope of target action M-32-07-T05 and adds target action M-32-07-T06. These changes do not impact any other Tri-Party Agreement interim or major milestone.</p>		
Affected Documents <p>Affected Document: Hanford Federal Facility Agreement Consent Order, Appendix D, Table D.</p>		
Approvals  DOE _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved EPA _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved Ecology _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved		

(Description/Justification of Change continued)

Target action M-32-07-T06 is being added to establish a management strategy for the dangerous waste tanks storing aqueous solution resulting from earlier chemical separation activities that reduced the radionuclide levels in the B Plant organic waste. These tanks were not previously included in M-32-07 because the waste was scheduled to be transferred to the tank farms double shell tanks before the end of December 1995. Existing monitoring equipment for the tanks includes tank level monitoring (air-purged dip tube system) and high level alarms. Surveillance of the tank level monitoring, and data collection is conducted daily.

Modify the following interim milestone and target action completion dates and target action scope, and add the following additional target date to M-32-07:

M-32-07	Complete B Plant Interim Status Tank Actions	June 1996
M-32-07-T05	Perform operations to separate radionuclides from the organic solvent waste to support disposition of the waste to an offsite disposal facility, or compliant interim storage.	June 1996
M-32-07-T06	Provide a plan and schedule for transferring the aqueous waste, generated during operations to separate radionuclides from the organic solvent waste, from the B Plant canyon to the Tank Farms double shell tanks.	Feb 1996

Continue daily monitoring of overflow/leak detection devices (e.g., tank level detection, high level alarms) until aqueous waste is removed from B Plant and transferred to the Tank Farms double shell tanks for long term storage. No additional visual inspections, integrity tests, integrity assessments, or secondary containment upgrades will be performed in FY 1996.

**Attachment 6**

Change Control Form M-32-95-01

Change Number <b>M-32-95-01</b>	<b>Federal Facility Agreement and Consent Order          Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	Date <b>11/06/95</b>												
Originator <b>Anna V. Beard</b>		Phone <b>(509) 376-7472</b>												
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager														
Change Title <b>Addition of interim milestone M-32-09 and associated target dates for the 340 Complex/Associated Radioactive Liquid Waste System (RLWS).</b>														
Description/Justification of Change <b>Establish the following new milestones:</b> <table border="0" style="width: 100%; margin-top: 20px;"> <tr> <td style="width: 15%; vertical-align: top;">M-32-09</td> <td style="width: 65%;">Complete Identified 340 Complex/Associated RLWS Dangerous Waste Tank Corrective Actions.</td> <td style="width: 20%; text-align: right; vertical-align: bottom;">September 1996</td> </tr> <tr> <td style="vertical-align: top;">M-32-09-T01</td> <td>Complete and submit integrity assessment report for the 340 Vault dangerous waste tank system. Provide a schedule to address any deficiencies described in the report related to tank system compliance (340 Complex deficiencies not addressed in this schedule will be addressed in the management strategy of target action M-32-09-T02).</td> <td style="text-align: right; vertical-align: bottom;">September 1996</td> </tr> <tr> <td style="vertical-align: top;">M-32-09-T02</td> <td>Implement 340 Complex management strategy for dangerous waste tank system issues.</td> <td style="text-align: right; vertical-align: bottom;">November 1995</td> </tr> <tr> <td style="vertical-align: top;">M-32-09-T03</td> <td>Implement procedure to provide visual inspections within 24 hours of use for piping in generator buildings which are not equipped with leak detection and secondary containment.</td> <td style="text-align: right; vertical-align: bottom;">November 1995</td> </tr> </table> <p>(Continued on the following page)</p>			M-32-09	Complete Identified 340 Complex/Associated RLWS Dangerous Waste Tank Corrective Actions.	September 1996	M-32-09-T01	Complete and submit integrity assessment report for the 340 Vault dangerous waste tank system. Provide a schedule to address any deficiencies described in the report related to tank system compliance (340 Complex deficiencies not addressed in this schedule will be addressed in the management strategy of target action M-32-09-T02).	September 1996	M-32-09-T02	Implement 340 Complex management strategy for dangerous waste tank system issues.	November 1995	M-32-09-T03	Implement procedure to provide visual inspections within 24 hours of use for piping in generator buildings which are not equipped with leak detection and secondary containment.	November 1995
M-32-09	Complete Identified 340 Complex/Associated RLWS Dangerous Waste Tank Corrective Actions.	September 1996												
M-32-09-T01	Complete and submit integrity assessment report for the 340 Vault dangerous waste tank system. Provide a schedule to address any deficiencies described in the report related to tank system compliance (340 Complex deficiencies not addressed in this schedule will be addressed in the management strategy of target action M-32-09-T02).	September 1996												
M-32-09-T02	Implement 340 Complex management strategy for dangerous waste tank system issues.	November 1995												
M-32-09-T03	Implement procedure to provide visual inspections within 24 hours of use for piping in generator buildings which are not equipped with leak detection and secondary containment.	November 1995												
Impact of Change <p>This interim milestone does not impact any other Tri-Party Agreement interim or major milestone.</p>														
Affected Documents <p>Hanford Federal Facility Agreement Consent Order Action Plan, Appendix D, Table D and Action Plan Work Schedule.</p>														
Approvals <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 30%; border-bottom: 1px solid black;">DOE</td> <td style="width: 15%; border-bottom: 1px solid black;">Date</td> <td style="width: 15%; text-align: center;">___ Approved</td> <td style="width: 15%; text-align: center;">___ Disapproved</td> </tr> <tr> <td style="border-bottom: 1px solid black;">EPA</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="text-align: center;">___ Approved</td> <td style="text-align: center;">___ Disapproved</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Ecology</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="text-align: center;">___ Approved</td> <td style="text-align: center;">___ Disapproved</td> </tr> </table>		DOE	Date	___ Approved	___ Disapproved	EPA	Date	___ Approved	___ Disapproved	Ecology	Date	___ Approved	___ Disapproved	
DOE	Date	___ Approved	___ Disapproved											
EPA	Date	___ Approved	___ Disapproved											
Ecology	Date	___ Approved	___ Disapproved											

This new interim milestone establish Tri-Party Agreement target action schedules for the 340 Complex/Associated RLWS dangerous waste tank system while allowing their continued operations.

The 340 Waste Handling Facility serves as a central collection point for the 300 Area Radioactive Liquid Waste System (RLWS). The RLWS is a network of tanks and piping with serves Hanford research and development laboratories in the 300 Area.

Another service that the 340 facility provides is a safe and convenient disposal pathway for radioactive liquid wastes from 300 Area facilities undergoing closure and D&D. The 340 facility also packages and ships solid LLW for small generators and facilities undergoing closure and D&D in the 300 Area.

Note: The 340 Complex includes the 340 facility and transfer piping between the facility up to the first flange connection within the generator buildings. The 340 facility is comprised of the 340 Vault, the 340-A Building and the 340-B building.

340 COMPLEX STRATEGY  
M-32-09-T02

Additions to this strategy may be needed based on the 340 Vault integrity assessment findings (target action M-32-09-T01).

340 Vault:

- Continue to provide overflow controls, tank level monitoring, and leak detection at the 340 Vault.
- Continue to provide inspections of data gathered from leak detection monitoring equipment of the 340 Vault every operating day.
- Continue to provide capability of removing spills of dangerous waste from the 340 Vault within 24 hours of a spill or leak and continue operations without further secondary containment, daily visual inspections, and without annual integrity testing.

340 Complex Piping Systems:

- Maintain existing double-wall piping and continuous leak detection for the underground piping.
- Continue to provide continuous leak detection for piping in valve boxes and continue operations without integrity assessments and annual integrity testing.
- Designate the RLWS (outside buildings) as an underground piping system.
- Continue to provide inspections of data gathered from leak detection monitoring equipment of the underground RLWS every operating day.

340-A Tanks:

- Dedicate 340-A tanks for contingency purposes.
- Continue to provide continuous leak detection of the 340-A building sump.
- Continue to provide inspections of data gathered from leak detection monitoring equipment of the 340-A sump every operating day.
- Continue to provide capability of removing spills of dangerous waste from the 340-A sump within 24 hours of a spill or leak and continue operations without further secondary containment, daily visual inspections, integrity assessments, and without annual integrity testing.

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

Project Managers Meeting Minutes  
November 14, 1995

Distribution List

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G. C. Triner	WHC	T3-28
D. W. Wilson	WHC	S6-70
R. W. Wilson	Ecology	B5-18

Administrative Record: TPA Milestone M32-00:  
T-2-5, TS-2-1, T-2-7, TS-2-3, S-2-3  
[Care of EDMC, WHC (H6-08)]

Please send comments on distribution list to A. R. Sherwood, H6-20, 376-6391.