

Tri-Party Agreement

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

1992 ANNUAL UPDATE

AMENDMENT 3

CHANGE FORM M-17-91-05

FOR
PUBLIC COMMENT



NOTE TO THE PUBLIC REGARDING THIS PACKAGE

This package, which is presented for a public comment period of 45 days, is comprised of three closely related documents. These three documents are: the 1992 Annual Update to the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), Amendment 3 to the Tri-Party Agreement and Tri-Party Agreement Change Form M-17-91-05. These three documents are being made available at the same time for two reasons: one is the convenience, to the public, of reviewing three documents at once and the second is that the three documents are closely related and dependent upon one another. The following is a description of the three documents and what they represent:

- The first document is the 1992 Annual Update to the Tri-Party Agreement. An Annual Update is required to be performed to keep the Tri-Party Agreement current with respect to changes that have been approved during the past year. The Annual Update contains the following updated Tri-Party Agreement appendices:
 - Appendix B - a listing of Treatment, Storage and/or Disposal units,
 - Appendix C - a listing of waste sites and operable units,
 - Appendix D - a listing of all current interim and major milestones (including Figure D-1 which graphically depicts the current milestones in a schedule format),
 - Appendix E - a listing of Key Individuals and
 - Appendix F - a listing of Supporting Technical Plans and Procedures

The Annual Update process cannot establish new milestones. This can only be accomplished through the Tri-Party Agreement change system or by an amendment to the Tri-Party Agreement. It must be noted that this Annual Update does portray some changes which have been negotiated and are undergoing public comment concurrently with this Annual Update (Change form M-17-91-05 and Amendment 3). After the public comment period on all three documents is complete, and resulting comments have been considered, the changes and the Annual Update will be finalized. This concurrent review process was utilized so that the changes could be reflected in the Tri-Party Agreement document this year instead of incorporating them one year from now.

- The second document, undergoing public comment in this package, is Amendment 3 to the Tri-Party Agreement. An amendment is a document which can establish new requirements or modify existing requirements in the Tri-Party Agreement and requires the approval of the U.S. Environmental Protection Agency (EPA), the State of Washington Department of Ecology (Ecology) and the U.S. Department Of Energy (DOE). Amendment 3 will adjust the Resource Conservation and Recovery Act permit and closure plan review/revise schedules in the Tri-Party Agreement to reflect the timeframes which have been experienced during the last two years. This change to the schedules will enable each agency (DOE, Ecology, and EPA) to better plan resource requirements as well as provide schedules to the public which show anticipated permitting/closure plan activities. The schedules contained in the Annual Update work schedule under the M-20-00 series of milestones reflect these revised review cycles. After the public comment period is complete and resulting comments have been considered, Amendment 3 will be finalized.

The third document, undergoing public comment in this package, is Tri-Party Agreement Change Form M-17-91-05. A change form is a document which can establish milestones or modify existing ones in the Tri-Party Agreement and requires the approval of the EPA, Ecology and the DOE. Change Form M-17-91-05 will establish, in the Tri-Party Agreement, one new major and 88 new or revised interim milestones. These new milestones are the result of a major re-negotiation of the present milestone M-17-00 and will address all Phase I and Phase II liquid effluent discharges at the Hanford Site. This change form addresses all interim milestones under M-17-00.

It should be noted that Change Form M-17-91-06 which addresses liquid discharges to the 300 Area Process Trenches was approved by Ecology, EPA and DOE on December 19, 1991. This change form is reflected in the 1992 Annual Update to the Tri-Party Agreement. This public comment period will provide an opportunity to discuss this change. Technical information and the rationale for restructuring this interim milestone will be presented at the public meetings. The three parties will be reviewing comments regarding decisions on the future date to cease all wastewater discharges to the 300 Area Process Trenches.

These three documents, which depend upon one another, will bring the Tri-Party Agreement up to date with respect to current changes and needs. This is your opportunity to provide input to the three parties on this important evolution of the Tri-Party Agreement.

Comments should be provided to:

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DRAFT

**Hanford Federal Facility
Agreement and Consent Order**

Volume 2 of 2

Calendar Year 1992 Annual Update

by

**Washington State
Department of Ecology**

**United States
Environmental Protection Agency**

**United States
Department of Energy**

DRAFT

D R A F T

HANFORD FEDERAL FACILITY AGREEMENT

AND

CONSENT ORDER

VOLUME 2 OF 2

CALENDAR YEAR 1992 ANNUAL UPDATE

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**Washington State
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Department of Energy**

March 1992

D R A F T

CALENDAR YEAR 1992 ANNUAL UPDATE

TO THE

HANFORD FEDERAL FACILITY AGREEMENT

AND CONSENT ORDER

Approved for Implementation:

**Paul T. Day, Project Manager
US Environmental Protection Agency**

Date

**David B. Jansen, Project Manager
State of Washington
Department of Ecology**

Date

**Steve H. Wisness, Project Manager
US Department of Energy**

Date

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INTRODUCTION

This document constitutes a revision of the Hanford Federal Facility Agreement and Consent Order (hereafter referred to as "the Agreement") Action Plan. Section 11.3 of the Agreement Action Plan establishes the requirement for an annual update to the Work Schedule which is contained as Appendix D to the Action Plan. In addition, it is the intent of the parties to maintain Appendices B (Listing of Treatment, Storage, and Disposal Groups/Units), C (Prioritized Listing of Operable Units), E (Key individuals) and F (Supporting Technical Plans and Procedures) up-to-date through the annual update process. Therefore, Appendices B, C, D, E, and F of the Agreement Action Plan are being issued as a separate volume from the rest of the Agreement. This revision supersedes Appendices B, C, D, E, and F currently contained in the March 1990 version of Volume 2 of the Agreement. This revision is part of the Agreement Action Plan, and therefore the Agreement.

The DOE certifies as part of this annual update of the Work Schedule that the milestones as previously negotiated have not changed, and that actions being incorporated are consistent with meeting such milestones. If a milestone has to be changed, the change process described in Section 12.0 (of the Agreement Action Plan) will be used.

SUMMARY OF CHANGES

The following summarizes the changes made to Appendices B, C, D, E, and F as part of the Calendar Year 1992 annual update:

Appendix B- Listing of Treatment, Storage, and Disposal Groups/Units

All additions and changes to Appendix B have been highlighted with a shaded box (see Appendix B for exact changes)

Appendix C- Prioritized Listing of Operable Units

Additions:

All additions, including transfers, to appendix C have been highlighted with a shaded box. (See appendix C for exact changes). The following is a list of transfers; all other shaded lines are new entries.

<u>Title of Units:</u>	<u>Original Operable Unit:</u>	<u>Moved To:</u>
UN-200-W-69	200-UP-2	200-RO-2
218-W-7	200-TP-4	200-RO-3
UN-200-W-85	200-RO-2	200-TP-4
UN-200-E-89	200-BP-7	200-BP-1
241-S-151	200-RO-4	200-RO-2
UN-200-W-29	200-TP-5	200-TP-2

Other Changes:

In accordance with approved change form M-12-91-2 operable units 100-NR-1, 100-NR-2 and 100-NR-3 have been combined into two operable units. One operable unit, 100-NR-1, is now a source operable unit containing all waste units within the 100-N Area. The other operable unit, 100-NR-2, is now a ground water operable unit dealing with the ground water beneath the 100-N Area.

In accordance with approved change form M-12-91-3 the 100-FR-1 (source and groundwater) and 100-FR-2 (source only) operable units have been reorganized into three operable units. Two of the new operable units are source operable units, 100-FR-1 and 100-FR-2, dealing with waste units. The third is a groundwater operable unit, 100-FR-3, which will deal with ground water beneath the 100-FR-1 and 100-FR-2 source operable units.

It was determined that since Units 323 Tank 1, 323 Tank 2, 323 Tank 3, and 323 Tank 4 are in a concrete vault, they would not be assigned to an operable unit (previously assigned to Operable Unit 300-FF-3) however, they are still classified as Solid Waste Management Units in WIDS.

Unit UN-200-W-22 (Operable Unit 200-UP-2) was deleted since it was duplicated in UPR-200-W-138.

Unit 116-B-8, Outfall Structure, was retitled to Unit 132-B-6 and remains in Operable Unit 100-BC-1.

The following waste units have been reclassified as an UPR (Unplanned release that is not considered to be a separate waste unit) and are part of another waste site.

<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Reassigned to Waste Unit</u>
200-UP-2	UN-200-W-138	Unplanned Release	216-U-7
200-PO-4	UN-200-E-66	Unplanned Release	216-A-42
200-TP-2	UN-200-W-131	Unplanned Release	241-TX-302B
200-TP-2	UN-200-W-28	Unplanned Release	241-TX-155
200-TP-2	UN-200-W-5	Unplanned Release	241-TX-155
200-TP-4	UN-200-W-21	Unplanned Release	241-TX-302C
200-RO-1	UN-200-W-139	Unplanned Release	216-U-9
200-RO-2	UN-200-W-20	Unplanned Release	241-S-151
200-RO-3	UN-200-W-57	Unplanned Release	233-S PU CONCRETION FACILITY
200-RO-3	UN-200-W-87	Unplanned Release	291-S FAN & FILTER BUILDING
300-IU-1	UN-600-11	Unplanned Release	J. A. JONES CONSTRUCTION PIT #1
200-BP-7	UN-200-E-38	Unplanned Release	241-B-152
200-BP-7	UN-200-E-5	Unplanned Release	241-BX-102
200-BP-7	UN-200-E-75	Unplanned Release	241-B-153
200-PO-3	UN-200-E-70	Unplanned Release	244-AR LIFT STATION

Appendix D- Tables D-1, D-2, and D-3 Listing of Major and Interim Milestones and Figure D-1 Work Schedule

The following summarized changes which have been incorporated into Appendix D Tables D-1, D-2, and D-3 Listing of Major and Interim Milestones and Figure D-1 Work Schedule:

General Changes and Updates

This annual update has revised the previous work schedule by deleting the previous two years (1990 and 1991), providing monthly activity detail for the current year (1992) and providing quarterly detail for the next year (1993). Two new calendar years (1997 and 1998) have been added to the end of the work schedule. The annual update has retained the same format as the original work schedule, with the incorporation of approved milestone changes in accordance with Section 12 of the Agreement Action Plan.

Changes By Major Milestone (milestones not listed were not changed and have only been graphically modified on the Work Schedule according to the general discussion above)

Milestone M-01-00

Approved change form M-01-90-3 has extended major milestone M-01-00 from September 1994 to December 1996 for the completion of 14 Grout Campaigns. The change also established or revised 10 interim milestones (M-01-01 through M-01-05) supporting grout vault construction and filling.

Milestone M-02-00

Approved change form M-02-91-1 has assigned major milestone M-02-00 a due date of "to be determined" along with the reestablishment of two interim milestones (M-02-01 and M-02-02). These two milestones require the submittal of a redefinition study for tank disposal activities and the establishment of new milestones supporting pretreatment activities.

Milestone M-03-00

Approved change form M-03-90-2 has extended the due date for milestone M-03-01 from July 1991 to April 1992 for the start of construction of the HWVP.

Milestone M-05-00

Approved change form M-05-90-2 revised the number of tanks to be stabilized under milestone M-05-02 from 5 to 4.

Approved change form M-05-90-03 adjusted the number of tanks to be stabilized under the interim milestones supporting major milestone M-05-00 (from 9 in 1991 to 4, from 9 in 1993 to 11, from 9 in 1994 to 8, and from 5 in 1995 to 10). The major milestone date of September 1995 to complete the interim stabilization of all but the two high-heat tanks was not changed.

Milestone M-10-00

Approved change form M-10-90-1 reduced the number of core samples to be obtained for interim milestones M-10-04 and M-10-05 and redistributed these delayed core samples to interim milestones in subsequent years. The major milestone M-10-00 remained unchanged.

Approved change form M-10-90-2 extended the due date for interim milestone M-10-04 from December 1990 to September 1991 and reduced M-10-06 from 24 samples to 20 samples. Interim milestone M-10-05 was redefined to cover the preparation of an integrated waste sampling plan and M-10-13 was added requiring the restoration of rotary mode sampling capability. No changes were made to the September 1998 Major Milestone M-10-00.

Approved change form M-10-91-1 has corrected an inconsistency which existed in change form M-10-90-2. Change form M-10-90-2 contained two different due dates for newly negotiated milestone M-10-13 "Restore rotary mode sampling capability at the Hanford Site". Change form M-10-91-1 has established the correct date as September 1992, which is reflected in this annual update.

Milestone M-12-00

Approved change form M-12-90-4 has changed major milestone M-12-00 scope to 15 interim milestones requiring submittal of work plans (the 5 interim milestones deleted will be included in major milestone M-13-00). Additionally the interim milestones under M-12-00 have been revised to require rescoped work plans reflecting revised past practice strategy.

Approved change form M-12-91-3 which has reorganized the 100-FR-1 (source and groundwater) and 100-FR-2 (source only) operable units into three operable units. Two of the new operable units are source operable units, 100-FR-1 and 100-FR-2, dealing with waste units. The third is a groundwater operable unit, 100-FR-3, which will deal with ground water beneath the 100-FR-1 and 100-FR-2 source operable units. This change request has reworded milestone M-12-13A to include the newly created operable unit 100-FR-3 within it's scope.

Milestone M-13-00

Approved change form M-12-90-4 has extended the due date for M-13-00 from beginning in calendar year 1992 to beginning in calendar year 1993.

Milestone M-14-00

Approved change form M-14-90-2 extended the due date for interim milestone M-14-01 from September 1990 to November 1990.

Milestone M-15-00

Approved change form M-15-90-1 established interim milestones M-15-02A, M-15-02B and M-15-02C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 200-BP-1 operable unit per the approved work plan.

Approved change form M-15-90-2 established interim milestones M-15-03A, M-15-03B and M-15-03C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 300-FF-1 operable unit per the approved work plan.

Approved change form M-15-90-4 established interim milestones M-15-04A, M-15-04B and M-15-04C requiring the submittal of Feasibility Studies and Remedial Investigation reports for the 300-FF-5 operable unit per the approved work plan.

Approved change form M-15-90-6 established a target date of February 1993 for submittal of a Remedial Investigation Phase I report for the 200-BP-1 operable unit per the approved work plan.

Approved change form M-15-91-2 consolidated milestones M-15-01B and M-15-01C into a single milestone M-15-01B/C requiring the submittal of a final Remedial Investigation/Feasibility Study report with a submittal date of December 1992.

Milestone M-17-00

Approved change form M-17-89-1 has deleted interim milestone M-17-07.

Approved Amendment 2 to the Agreement has established 3 new liquid effluent interim milestones;

- M-17-11 requiring the completion of numerous interim operating restrictions on liquid effluent streams at the Hanford Site (this interim milestone and its associated Table D-5 are deleted and replaced with stream specific milestones by change form M-17-91-5)
- M-17-12 requiring the submittal of sampling and analysis plans for liquid effluent streams at the Hanford Site (this interim milestone and its associated Table D-4 are deleted and replaced with stream specific milestones by change form M-17-91-5)
- M-17-13 requiring the submittal of a methodology for assessing impact of liquid discharge on groundwater at disposal sites.

Change form M-17-91-5 (not approved at the time of the release of this draft annual update) documents the changes resulting from the renegotiation of all the previous liquid effluent milestones. These changes have been incorporated into this draft annual update. Change form M-17-91-5 will enter the public comment process concurrently with this annual update and a final disposition will be made after public comments are considered. Any changes to change form M-17-91-5 which occur subsequent to public comment and before its approval will be incorporated into this annual update.

Change form M-17-91-5 has deleted liquid effluent interim milestone M-17-02 and revised interim milestones M-17-04, M-17-08, and M-17-09. Change form M-17-91-5 has also established 86 new interim milestones (M-17-14 through M-17-44), 1 new major milestone (M-17-00B) and revised the current major milestone M-17-00 (now M-17-00A) dealing with the disposition of liquid effluent streams at the Hanford Site.

Approved change form M-17-91-6 has deleted milestone M-17-06 and replaced it with a series of milestones (M-17-06A through M-17-06E) requiring numerous actions dealing with cessation of discharges to the 300 Area process trenches.

Milestone M-20-00

Approved Amendment 1 to the Agreement added interim milestone M-20-47 requiring the submittal of a RCRA Part B permit application for the 200 Area LERF by June 1991.

Approved change form M-20-90-1 has changed the due date for interim milestone M-20-32 from September 1992 to August 15, 1994.

Approved change form M-20-90-2 has changed the due date for interim milestone M-20-18 from June 1991 to December 1991 and changed the milestone requirement from the submittal of a RCRA Part B permit application to the submittal of a closure plan. This change form also deleted interim milestone M-23-10.

Approved change form M-20-90-3 has changed the due date for interim milestone M-20-14 from March 1991 to June 1991 and changed the milestone requirement from the submittal of a RCRA Part B permit application to the submittal of a closure plan.

Approved change form M-20-90-4 has changed the definition of Milestone M-20-21 from requiring the submittal of a RCRA Part B Permit application for the B Plant to requiring the establishment of a new interim milestone for the submittal of a RCRA Part B permit application or a closure plan. The due date for completion of M-20-21 is now January 1992.

Approved change form M-20-91-3 has changed the due date for interim milestone M-20-20 from August 1991 to April 1992 and has added the 3100 Hazardous Waste Treatment Unit to the scope of the RCRA Part B permit application required by the milestone.

Change form M-17-91-5 (not approved at the time of the release of this draft annual update) documents the changes resulting from the renegotiation of all the previous liquid effluent milestones. As part of the change form two new M-20-00 interim milestones have been added. The new milestones are M-20-49 and M-20-50.

Amendment 3 to the Tri-Party Agreement (not approved at the time of the release of this draft annual update) will adjust the time periods for the review and revision cycles of RCRA Part B permit applications and closure plans. Amendment 3 has been incorporated into this annual update pending and subject to approval of the Amendment. The target dates appearing in the Work Schedule after submittal of a RCRA Part B permit application or closure plan are based upon the following time periods:

<u>Action</u>	<u>Part B Applications</u>	<u>Closure Plans</u>
1. Ecology Review (Rev. 0)	120 days	90 days
2. DOE Response (NOD Response Table)	120 days	90 days
3. Ecology Review Response Table	120 days	90 days
4. Unit Managers Issue Resolution	90 days	60 days
5. DOE Issue Revision 1	120 days	90 days
6. Ecology Review Revision 1	120 days	90 days
7. DOE Response (NOD Response Table)	120 days	90 days
8. Ecology Review	90 days	60 days
9. Unit Managers Issue Resolution	90 days	60 days
10. DOE Issue Revision 2	90 days	60 days
11. Ecology Review	90 days	60 days
12. DOE Response (NOD Response Table)	90 days	60 days
13. Ecology Review	90 days	60 days
14. Unit Managers Issue Resolution	90 days	60 days
15. DOE Page Change Revisions	90 days	60 days
16. Public Review/Draft Permit	90 days	60 days

Milestone M-23-00

Approved change form M-23-90-4 changed the due date for the T-Plant treatment by generator request portion of interim milestone M-23-01 from June 1990 to September 1990.

Approved change form M-20-90-2 deleted interim milestone M-23-10.

Milestone M-24-00

Approved change form M-24-91-2 has changed the requirement for interim milestone M-24-17 from 4 RCRA wells at the 1324-N/NA ponds to 3 and added 1 RCRA well to the 1325-N site resulting in no changes to the total number of monitoring wells in calendar year 1991.

Approved change form M-24-91-3 changed the due date for Major Milestone M-24-00 (for 1990) and interim milestone M-24-07 from December 1990 to October 7, 1991.

Change form M-24-91-4 (not approved at the time of the release of this draft annual update) has been incorporated into this annual update pending and subject to approval of the change form. This change request establishes interim milestones for the installation of 21 calendar year 1992 RCRA wells (interim milestones M-24-19 through M-24-26).

Change form M-24-91-5 (not approved at the time of the release of this draft annual update) has been incorporated into this annual update pending and subject to approval of the change form. This change request further establishes additional interim milestones for the installation of 6 additional calendar year 1992 RCRA wells (interim milestones M-24-27 through M-24-29).

Milestone M-26-00

Approved Amendment 1 to the Agreement added major milestone M-26-00 requiring the submittal of a Hanford Land Disposal Restrictitons Plan for Mixed Wastes by October 1990. Amendment 1 also established 4 interim milestones (M-26-01 through M-26-04) requiring the completion of Land Disposal Restrictions activities related to major milestone M-26-00.

Milestone M-27-00

Approved change form M-12-90-4 has added major milestone M-27-00 requiring the submittal of Aggregate Area Management Study Reports for the 200 Area by September 1992. The change form also established 11 interim milestones requiring the submittal of individual reports (M-27-01 through M-27-11).

Milestone M-28-00

Approved change form M-12-90-4 has added major milestone M-28-00 requiring the submittal of soils and groundwater background determination documents by April 1992. The change form also established 4 interim milestones requiring the submittal of individual documents supporting major milestone M-28-00 (M-28-01 through M-28-04).

Milestone M-29-00

Approved change form M-12-90-4 has added major milestone M-29-00 requiring the submittal of documentation describing Hanford risk assessment methodology by March 1992. The change form also established 3 interim milestones requiring the submittal of individual documents supporting major milestone M-29-00 (M-29-01 through M-29-03).

Milestone M-30-00

Approved change form M-12-90-4 has added major milestone M-30-00 requiring the completion of integrated general investigations and studies for the 100-Area by September 1993. The change form also established 5 interim milestones requiring the completion of several related activities supporting major milestone M-29-00 (M-29-01 through M-29-03).

Milestone M-31-00

Approved change form M-31-91-1 has added major milestone M-31-00 requiring the construction of additional double-shell tank capacity by a date which has yet to be determined. The change form also established 2 interim milestones (M-31-01 and M-31-02) and 4 target dates (M-31-01T1 and M-31-02T1 through M-31-02T3) requiring the completion of several related activities supporting major milestone M-31-00.

Appendix E- Key Individuals

David Jansen has replaced Tim Nord as the Project Manager for Ecology.

Bub Loiselle has replaced Grechen Schmidt as the Community Relations Contact for the EPA.

Mary Getchell has replaced Mary Kelly as the Community Relations Contact for Ecology.

Addresses and telephone numbers have been updated for the key individuals.

Appendix F- Supporting Technical Plans and Procedures

Approved Amendment 1 to the Agreement added Appendix F to the Agreement and specifically placed it in Volume 2. The listed status for the documents contained within Appendix F has also been updated.

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 1 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
D-1-1	100-D Ponds (120-D-1)	100-DR-1	X
T-1-1	105-DR (122-DR-1) Sodium Fire Facility		X
D-1-2	1301-N/1325-N Liquid Waste Disposal Facilities	100-NR-1	X
	116-N-1 Crib		
	116-N-3 Crib		
T-1-2	1324-N/1324-NA Liquid Waste Facilities	100-NR-1	X
	120-N-1 Pond		
	120-N-2 Neutralization Unit		
T-1-3**	1706-KE Treatment Facility (116-KE6 A-D):		X
	1706-KE Waste Accumulation Tank		
	1706-KE Ion Exchange Column		
	1706-KE Solidification Unit (Evaporator)		
	1706-KE Condensate Tank		

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 2 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
T-1-4	183-H Solar Evaporation Basins (116-H-6)	100-HR-1	X
S-2-8	200 East Area Liquid Effluent Retention Facility (LERF)		X Storage
T-2-1	200-E8 Borrow Pit Demolition Site		X
T-2-2	200-W Ashpit Demolition Site		X
T-2-3***	204-AR Waste Unloading Station		X Treatment
S-2-7	207-A South Retention Basin	200-PO-5	X
D-2-1	2101-M Pond		X
D-2-2	216-A-10 Crib	200-PO-2	X
D-2-3	216-A-29 Ditch	200-PO-5	X
D-2-4	216-A-36B Crib	200-PO-2	X
D-2-10	216-A-37-1 Crib	200-PO-4	X
D-2-5	216-B-3 Pond System:	200-BP-11	X
	216-B-3 Pond		
	216-B-3A Pond		
	216-B-3B Pond		
	216-B-3C Pond		
	216-B-3-3 Ditch		

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 3 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
S-2-3	Double-Shell Tanks		Storage
	241-AN Farm (7 tanks)		
	241-AP Farm (8 tanks)		
	241-AW Farm (6 tanks)		
	241-AY Farm (2 tanks/2 diversion boxes)		
	241-AZ Farm (2 tanks)		
	241-SY Farm (3 tanks)		
	241-EW-151 Vent Station Catch Tank		
	244-AR Vault		
	244-CR Vault		
	244-TX Receiver Tank		
	244-BX Receiver Tank		
	244-U Receiver Tank		
	244-S Receiver Tank		
	244-A Receiver Tank		
S-2-9	241-CX-70 Tank	200-SO-1	X
D-2-6	216-B-63 Trench	200-BP-8	X
D-2-7	216-S-10 Pond and Ditch	200-RO-1	X
	216-S-10D Ditch		
	216-S-10P Pond		

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 4 of 11)

Group Number	Treatment, Storage, and Disposal Group/Units	Operable Unit (if applicable)	Closure*	Operating Permit	Planned Action
D-2-8	216-U-12 Crib	200-UP-2	X		
D-2-9	Low-Level Burial Grounds				
	218-E-10				Landfill
	218-E-12B				Landfill
	218-W-3A				Landfill
	218-W-3AE				Landfill
	218-W-4B				Landfill
	218-W-4C				Landfill
	218-W-5				Landfill
	218-W-6				Landfill
S-2-1	Purex Tunnels 1 and 2				Storage
	218-E-14				
	218-E-15				
T-2-4**	221-T Containment System Test Facility				
TS-2-1	222-S Laboratories Treatment Tanks and Storage Building			X	
	222-S Storage Pad				Storage
	*** 219-S Hot Waste Facility Tank 1C2				Treatment
	*** 219-S Hot Waste Facility Tank 103				Treatment

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 5 of 11)

Group Number	Group/Units	Planned Action		
		Operable Unit (if applicable)	Closure*	Operating Permit
S-2-2	224-T Transuranic Storage and Assay Facility (TRUSAF)			Storage
S-2-4	Single-Shell Tanks		X	
	241-A Farm (6 tanks/2 diversion boxes)	200-P0-3		
	241-AX Farm (4 tanks/1 diversion box)	200-P0-3		
	241-B Farm (16 tanks/5 diversion boxes)	200-BP-7		
	241-BX Farm (12 tanks/6 diversion boxes)	200-BP-7		
	241-BY Farm (12 tanks/3 diversion boxes)	200-BP-7		
	241-C Farm (16 tanks/6 diversion boxes)	200-P0-3		
	241-S Farm (12 tanks/2 diversion boxes)	200-R0-4		
	241-SX Farm (15 tanks/2 diversion boxes)	200-R0-4		
	241-T Farm (16 tanks/6 diversion boxes)	200-TP-6		
	241-TX Farm (18 tanks/4 diversion boxes)	200-TP-5		
	241-TY Farm (6 tanks/1 diversion boxes)	200-TP-5		
	241-U Farm (16 tanks/8 diversion boxes)	200-UP-3		
T-2-5***	241-Z Treatment Tank (D-5)			Treatment
T-2-6	242-A Evaporator			Treatment
S-2-5	2727-S Nonradioactive Dangerous Waste Storage Facility		X	

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 6 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
TS-2-2	Hexone Storage and Treatment		X
	276-S-141 Tank		
	276-S-142 Tank		
	Railcar Storage Tanks (Future)		
	Distillation System (Future)		
	Incinerator (Future)		
T-3-1	300 Area Solvent Evaporator		X
TS-3-1	300 Area Waste Acid System		X
	313 Building Waste Acid Neutralization Tank		
	313 Building Centrifuge		
	313 Filter Press		
	333 Building Chromium Treatment Tanks (2 tanks)		
	***311 Neutralized Waste Tanks (2 tanks)		
	334-A Waste Acid Storage Tank (3 tanks)		

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 7 of 11)

Group Number	Group/Units	Planned Action	
		Closure*	Operating Permit
S-3-1	303-K Contaminated Waste Storage Facility	X	Treatment
T-3-2	303-M Uranium Oxide Facility		
TS-3-2	304 Concretion Facility and Storage Area	X	
	304 Concretion Facility 304 Storage Area		
S-3-2	305-B Storage Facility		Storage
D-3-1	300 Area Process Trenches (316-5)	X	300-FF-1
T-3-3**	324 Sodium Removal Pilot Plant		Treatment
T-3-4	325 Waste Treatment Facility		Treatment

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 8 of 11)

Group Number	Treatment, Storage, and Disposal Group/Units	Planned Action	
		Closure*	Operating Permit
TS-3-3	3718-F Alkali Metal Treatment and Storage Facility	X	
	3718-F Burn Shed		
	3718-F Treatment Tank #1		
	3718-F Treatment Tank #2		
	3718-F Alkali Metal Treatment Facility Storage		Treatment
T-4-1	400 Area Maintenance and Storage Facility (MASF)		
S-4-1	4843 FFTF Sodium Storage Facility	X	
D-6-1	600 Area Nonradioactive Dangerous Waste Landfill	X	
S-6-1	616 Nonradioactive Dangerous Waste Storage Facility		Storage
TS-2-3	B Plant		
	B Plant Waste Concentrator		Treatment
	B Plant Settle and Decant Tank		Treatment
	B Plant Filter		Treatment
	B Plant Radioactive Organic Waste Solvent Tank #1		Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 9 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Operating Permit
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #2		Storage
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #3		Storage
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #4		Storage
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #5		Storage
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #6		Storage
	B Plant Radioactive Organic Waste		Storage
	Solvent Tank #7		Storage
	B Plant Storage Area		Storage
	B Plant Waste Pile		Storage
T-X-1	Biological Treatment Test Facilities		Treatment
TD-2-1	Grout		Treatment/Landfill
	Grout Treatment Facility		Treatment
	Grout Treatment Facility Landfill		Treatment/Landfill
TS-2-4	Hanford Central Waste Complex		Treatment
	Waste Receiving and Processing (WRAP) Facility (Future)		Treatment
	Radioactive Mixed Waste Storage Facility		Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 10 of 11)

Treatment, Storage, and Disposal		Planned Action	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
TS-2-5	Hanford Waste Vitrification Plant (HWVP) (Future)		Treatment/Storage
T-X-2	Physical and Chemical Treatment Test Facilities		Treatment
TS-2-6	Purex		
	*** Neutralization Tank E-5		Treatment
	*** E-F11 Concentrator		Treatment
	*** Neutralization Tank G-7		Treatment
	Ammonia Distillate Treatment System (Future Tank)		Treatment
	*** Neutralization Tank F-18		Treatment
	*** Neutralization Tank F-15		Treatment
	*** Neutralization Tank F-16		Treatment
	*** Neutralization Tank U3		Treatment
	*** Neutralization Tank U4		Storage
	Purex Waste Piles		
TS-3-4	Simulated High-Level Waste Slurry Treatment and Storage		X (or) Treatment/Storage

APPENDIX B

Listing of Treatment, Storage, and Disposal Groups/Units. (sheet 11 of 11)

<u>Treatment, Storage, and Disposal</u>		<u>Planned Action</u>	
Group Number	Group/Units	Operable Unit (if applicable)	Closure* Operating Permit
T-2-7***	T Plant Treatment Tank		Treatment
T-X-3	Thermal Treatment Test Facilities		Treatment
T-11-1	1100 Area Hanford Patrol Academy Demolition Area		Treatment

*Post-Closure Permit required if closed as a land disposal unit in accordance with Subsection 6.3.3.
 **Part A permit application may be withdrawn because unit(s) never handled or never will handle hazardous waste.
 ***Part A permit application may be withdrawn due to reclassification of unit(s) as treatment by generator.

APPENDIX C

Prioritized Listing of Operable Units. (sheet 1 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
1	1100-EM-1	1100-1	Acid Pit	EPA	CPP
		1100-2	Solvent Pit		CPP
		1100-3	Antifreeze Pit		CPP
		Horn Rapids Disposal	Landfill		CPP
		1100-4	Antifreeze Tank		CPP
		UN-1100-5	Unplanned Release		CPP
		UN-1100-6	Unplanned Release		CPP
2	300-FF-1 (GW addressed by 300-FF-5)	300 Ash Pits	Pit	EPA	CPP
		300 Filter Backwash Pond	Pond		CPP
		300 Retired Filter Backwash	Pond		CPP
		300 Retired RLWS*	Sewer		CPP
		300 Area RLWS* and 340 complex	Sewer		CPP
		300 Area sanitary sewer system	Sewer		CPP
		307	Retention Basin		CPP
		316-1	Pond		CPP
		316-2	Pond		CPP
		316-3	Trench		CPP
		316-5	Trench		TSD (D-3-1)
		(300 Area Process Trenches)			
		618-12	Burial Ground		CPP
		618-4	Burial Ground		CPP
		618-5	Burial Ground		CPP
		628-4	Burn Pit		CPP
		UN-300-1	Unplanned Release		CPP
		UN-300-2	Unplanned Release		CPP
		UN-300-11	Unplanned Release		CPP
		UN-300-14	Unplanned Release		CPP
UN-300-31	Unplanned Release	CPP			
UN-300-41	Unplanned Release	CPP			
UN-300-FF-1	Unplanned Release	CPP			
2A	300-FF-5 (GW Operable Unit [O.U.]	300-FF-1	Source O.U.	EPA	CPP
		300-FF-2	Source O.U.		CPP
		300-FF-3	Source O.U.		CPP

CPP = CERCLA Past-Practice
 RPP = RCRA Past-Practice
 TSD = Treatment, Storage, and Disposal
 *RLWS = Radioactive Liquid Waste Sewer

APPENDIX C

Prioritized Listing of Operable Units. (sheet 2 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
3	200-BP-1	216-B-43	Crib	EPA	CPP
		216-B-44	Crib		CPP
		216-B-45	Crib		CPP
		216-B-46	Crib		CPP
		216-B-47	Crib		CPP
		216-B-48	Crib		CPP
		216-B-49	Crib		CPP
		216-B-50	Crib		CPP
		216-B-57	Crib		CPP
		216-B-61	Crib		CPP
		UN-200-E-89	Unplanned Release		RPP
		UN-200-E-110	Unplanned Release		CPP
		UN-200-E-63	Unplanned Release		CPP
		UN-200-E-9	Unplanned Release		CPP
4	100-HR-1 (GW addressed by 100-HR-3)	116-H-1	Trench	Ecology	RPP
		116-H-2	Trench		RPP
		116-H-3	French Drain		RPP
		116-H-4	Crib		RPP
		116-H-5	Outfall Structure		RPP
		116-H-6 (183-H)	Retention basin		TSD (T-1-4)
		116-H-7	Retention basin		RPP
		116-H-9	Crib		RPP
		126-H-2	Demolition and Inert Landfill		RPP
		132-H-1	Stack		RPP
		132-H-3	Pump Station		RPP
		1607-H2	Septic Tank		RPP
		1607-H3	Septic Tank		RPP
4A	100-HR-3 (GW O.U.)	100-HR-1	Source O. U.	Ecology	RPP
		100-HR-2	Source O. U.		RPP
		100-DR-1	Source O. U.		RPP
		100-DR-2	Source O. U.		RPP
		100-DR-3	Source O. U.		RPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 3 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
5	100-DR-1 (GW addressed by 100-HR-3)	116-D-1A	Trench	Ecology	RPP
		116-D-1B	Trench		RPP
		116-D-2	Crib		RPP
		116-D-3	French Drain		RPP
		116-D-4	French Drain		RPP
		116-D-5	Outfall Structure		RPP
		116-D-6	French Drain		RPP
		116-D-7	Retention basin		RPP
		116-D-9	Crib		RPP
		116-D-10	Pit		RPP
		116-DR-1	Trench		RPP
		116-DR-2	Trench		RPP
		116-DR-5	Outfall Structure		RPP
		116-DR-9	Retention basin		RPP
		120-D-1	Ponds		TSD (D-1-1)
		120-D-2	Storage Tank		RPP
		126-D-1	Ash pit		RPP
		126-D-2	Demolition and Inert Landfill		RPP
		126-D-3	Brine Pit		RPP
		128-D-2	Burn Pit		RPP
		130-D-1	Storage tank		RPP
		132-D-1	Building		RPP
		132-D-2	Building		RPP
		132-D-3	Pump Station		RPP
		1607-D2	Septic tank		RPP
		1607-D4	Septic tank		RPP
		1607-D5	Septic tank		RPP
628-3	Burn Pit	RPP			
6	100-BC-1 (GW addressed by 100-BC-5)	116-B-1	Trench	EPA	CPP
		116-B-10	French drain		CPP
		116-B-11	Retention basin		CPP
		116-B-12	Crib		CPP
		116-B-13	Trench		CPP
		116-B-14	Trench		CPP
		116-B-15	Pit		CPP
		116-B-16	Storage Tank		CPP
		116-B-2	Trench		CPP
		116-B-3	Crib		CPP
		116-B-4	French Drain		CPP
		116-B-5	Crib		CPP
		116-B-6A	Crib		CPP
		116-B-6B	Crib		CPP

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Prioritized Listing of Operable Units. (sheet 4 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	100-BC-1	116-B-7	Outfall Structure		CPP
	(GW addressed	116-B-9	French Drain		CPP
	by 100-BC-5)	116-C-1	Trench		CPP
	(Continued)	116-C-5	Retention basin		CPP
		118-B-5	Burial Ground		CPP
		118-B-7	Burial Ground		CPP
		118-B-10	Pit		CPP
		120-B-1	Sump		CPP
		126-B-1	Ash pit		CPP
		126-B-2	Demolition and Inert Landfill		CPP
		126-B-3	Demolition and Inert Landfill		CPP
		126-B-4	Brine Pit		CPP
		128-B-1	Burning pit		CPP
		128-B-2	Burning Pit		CPP
		128-B-3	Burning Pit		CPP
		128-C-1	Burning Pit		CPP
		132-B-1	Building		CPP
		132-B-3	Stack		CPP
		132-B-4	Building		CPP
		132-B-5	Building		CPP
		132-B-6	Outfall structure		CPP
		132-C-2	Outfall structure		CPP
		1607-B1	Septic Tank		CPP
		1607-B2	Septic Tank		CPP
		1607-B3	Septic Tank		CPP
		1607-B4	Septic Tank		CPP
		1607-B5	Septic Tank		CPP
		1607-B6	Septic Tank		CPP
		1607-B7	Septic Tank		CPP
6A	100-BC-5	100-BC-1	Source O. U.	EPA	CPP
	(GW O.U.)	100-BC-2	Source O. U.		CPP
		100-BC-3	Source O. U.		CPP
		100-BC-4	Source O. U.		CPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 5 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
7	100-KR-1 (GW addressed by 100-KR-4)	116-KE-4	Retention Basin	EPA	CPP
		116-KW-3	Retention Basin		CPP
		116-K-1	Crib		CPP
		116-K-2	Trench		CPP
		116-K-3	Outfall Structure		CPP
7A	100-KR-4 (GW O.U.)	100-KR-1	Source O. U.	EPA	CPP
		100-KR-2	Source O. U.		CPP
		100-KR-3	Source O. U.		CPP
8	100-NR-1	116-N-1 (1301-N)	Crib	Ecology	TSD (D-1-2)
		116-N-2	Storage Tank		RPP
		116-N-3 (1325-N)	Crib		TSD (D-1-2)
		124-N-4	Septic Tank		RPP
		128-N-1	Burning Pit		RPP
		UN-100-N-4	Unplanned Release		RPP
		UN-100-N-5	Unplanned Release		RPP
		UN-100-N-8	Unplanned Release		RPP
		UN-100-N-9	Unplanned Release		RPP
		UN-100-N-13	Unplanned Release		RPP
		UN-100-N-14	Unplanned Release		CPP
		UN-100-N-17	Unplanned Release		RPP
		UN-100-N-20	Unplanned Release		RPP
		UN-100-N-24	Unplanned Release		RPP
		UN-100-N-25	Unplanned Release		RPP
		UN-100-N-26	Unplanned Release		RPP
		UN-100-N-31	Unplanned Release		RPP
		120-N-1 (1324-N)	Pond		TSD (T-1-2)
		120-N-2 (1324-NA)	Neutralization unit		TSD (T-1-2)
		120-N-3	French Drain		RPP
		120-N-5	Neutralization unit		RPP
		120-N-6	French Drain		RPP
		120-N-7	French Drain		RPP
		120-N-8	French Drain		RPP
		124-N-1	Septic Tank		RPP
		124-N-2	Septic Tank		RPP
		124-N-5	Septic Tank		RPP
		124-N-6	Septic Tank		RPP
		124-N-7	Septic Tank		RPP
		124-N-8	Septic Tank		RPP
		124-N-9	Septic Tank		RPP
124-N-10	Sewer	RPP			
	130-N-1	Pond	RPP		

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Prioritized Listing of Operable Units. (sheet 6 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	100-NR-1 (Continued)	UN-100-N-5	Unplanned Release		RPP
		UN-100-N-6	Unplanned Release		RPP
		UN-100-N-11	Unplanned Release		RPP
		UN-100-N-15	Unplanned Release		RPP
		UN-100-N-18	Unplanned Release		RPP
		UN-100-N-19	Unplanned Release		RPP
		UN-100-N-21	Unplanned Release		RPP
		UN-100-N-22	Unplanned Release		RPP
		UN-100-N-23	Unplanned Release		RPP
		UN-100-N-33	Unplanned Release		RPP
		UN-100-N-34	Unplanned Release		RPP
		UN-600-17	Unplanned Release		RPP
		116-N-4	Storage Tank		
		118-N-1	Silos		
		124-N-3	Septic Tank		
		UN-100-N-1	Unplanned Release		
		UN-100-N-2	Unplanned Release		RPP
		UN-100-N-3	Unplanned Release		
		UN-100-N-7	Unplanned Release		
		UN-100-N-10	Unplanned Release		
		UN-100-N-12	Unplanned Release		
		UN-100-N-29	Unplanned Release		
		UN-100-N-30	Unplanned Release		
		UN-100-N-32	Unplanned Release		
		UN-100-N-35	Unplanned Release		
9	100-NR-2 (GW O.U.)	100-NR-1	Source O.U.	Ecology	RPP
10	100-FR-1	116-F-1	Trench	EPA	CPP
		116-F-10	French Drain		CPP
		116-F-11	French Drain		CPP
		116-F-12	French Drain		CPP
		116-F-13	French Drain		CPP
		116-F-14	Retention basin		CPP
		116-F-15	Crib		CPP
		116-F-16	Outfall		CPP
		116-F-2	Trench		CPP
		116-F-3	Trench		CPP
		116-F-4	Crib		CPP
		116-F-5	Crib		CPP
		116-F-6	Trench		CPP
		116-F-7	French Drain		CPP
		116-F-8	Outfall Structure		CPP
		116-F-9	Trench		CPP

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Prioritized Listing of Operable Units. (sheet 7 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	100-FR-1 (Continued)	126-F-2	Demolition and Inert Landfill		CPP
		128-F-2	Burning Pit		CPP
		132-F-3	Building		CPP
		132-F-4	Stack		CPP
		132-F-5	Building		CPP
		132-F-6	Pump Station		CPP
		1607-F2	Septic Tank		CPP
		1607-F3	Septic Tank		CPP
		1607-F4	Septic Tank		CPP
		1607-F5	Septic Tank		CPP
		1607-F6	Septic Tank		CPP
		UN-100-F-1	Unplanned Release		CPP
10A	100-FR-3 (GW O.U.)	100-FR-1	Source O.U.	EPA	CPP
		100-FR-2	Source O.U.		CPP
11	200-UP-2	200 West constr. surface laydown area	Burial ground	Ecology	CPP
		207-U	Retention Basin		CPP
		216-U-1&2	Crib		CPP
		216-U-12	Crib		TSD (D-2-8)
		216-U-14	Ditch		CPP
		216-U-15	Trench		CPP
		216-U-16	Crib		CPP
		216-U-17	Crib		CPP
		216-U-3	French Drain		CPP
		216-U-4	Reverse Well		CPP
		216-U-4A	French Drain		CPP
		216-U-4B	French Drain		CPP
		216-U-5	Trench		CPP
		216-U-6	Trench		CPP
		216-U-7	French Drain		CPP
		216-U-8	Crib		CPP
		241-U-151	Diversion Box		CPP
		241-U-152	Diversion Box		CPP
		241-U-302	Catch tank		CPP
		241-U-361	Settling Tank		CPP
		241-UX-154	Diversion Box		CPP
		241-UX-302	Catch Tank		CPP
		241-WR Vault	Vault		CPP

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Prioritized Listing of Operable Units. (sheet 8 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-UP-2 (Continued)	2607-W5	Septic Tank		CPP
		2607-W7	Septic Tank		CPP
		UN-200-W-6	Unplanned Release		CPP
		UN-200-W-19	Unplanned Release		CPP
		UN-200-W-33	Unplanned Release		CPP
		UN-200-W-39	Unplanned Release		CPP
		UN-200-W-46	Unplanned Release		CPP
		UN-200-W-48	Unplanned Release		CPP
		UN-200-W-55	Unplanned Release		CPP
		UN-200-W-60	Unplanned Release		CPP
		UN-200-W-78	Unplanned Release		CPP
		UN-200-W-86	Unplanned Release		CPP
		UN-200-W-101	Unplanned Release		CPP
		UN-200-W-117	Unplanned Release		CPP
		UN-200-W-118	Unplanned Release		CPP
		UN-200-W-125	Unplanned Release		CPP
		UN-200-W-161	Unplanned Release		CPP
12	100-BC-2 (GW addressed by 100-BC-5)	116-C-2A	Crib	EPA	CPP
		116-C-2B	Pump Station		CPP
		116-C-2C	Sand Filter		CPP
		116-C-3	Storage Tank		CPP
		116-C-6	Pit		CPP
		118-C-2	Storage Tank		CPP
		132-C-1	Stack		CPP
		132-C-3	Building		CPP
		1607-B8	Septic Tank		CPP
		1607-B10	Septic Tank		CPP
		1607-B11	Septic Tank		CPP
13	200-BP-5	216-B-5	Reverse Well	EPA	CPP
		216-B-56	Crib		CPP
		216-B-59A	Trench		CPP
		216-B-59B	Retention Basin		CPP
		216-B-9TF	Crib		CPP
		241-B-154	Diversion Box		CPP
		241-B-302-B	Catch Tank		CPP
		241-B-361	Settling Tank		CPP
		UN-200-E-7	Unplanned Release		CPP
		UN-200-E-45	Unplanned Release		CPP

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 9 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
14	100-DR-2 (GW Addressed by 100-HR-3)	116-DR-3	Trench	Ecology	RPP
		116-DR-4	Crib		RPP
		116-DR-6	Trench		RPP
		116-DR-7	Crib		RPP
		116-DR-8	French Drain		RPP
		118-D-5	Burial Ground		RPP
		126-DR-1	Demolition and Inert Landfill		RPP
		132-DR-1	Pump Station		RPP
		1607-D3	Septic Tank		RPP
15	200-ZP-1	216-Z-1&2TF	Crib	EPA	CPP
		216-Z-1A	Drain Field		CPP
		216-Z-3	Crib		CPP
		216-Z-12	Crib		CPP
		216-Z-13	French Drain		CPP
		216-Z-14	French Drain		CPP
		216-Z-15	French Drain		CPP
		216-Z-18	Crib		CPP
		241-Z-361	Settling Tank		CPP
		2607-Z	Septic tank		CPP
		UN-200-W-11	Unplanned Release		CPP
		UN-200-W-23	Unplanned Release		CPP
		UN-200-W-74	Unplanned Release		CPP
		UN-200-W-75	Unplanned Release		CPP
		UN-200-W-89	Unplanned Release		CPP
		UN-200-W-103	Unplanned Release		CPP
		UN-200-W-90	Unplanned Release		CPP
		UN-200-W-91	Unplanned Release		CPP
UN-200-W-159	Unplanned Release	CPP			
16	100-KR-2 (GW Addressed by 100-KR-4)	130-KE-1	Storage tank	EPA	CPP
		130-KW-1	Storage tank		CPP
		116-KE-1	Crib		CPP
		116-KE-2	Crib		CPP
		116-KE-3	Reverse Well		CPP
		116-KW-1	Crib		CPP
		116-KW-2	Reverse Well		CPP
		118-K-1	Burial Ground		CPP
		120-KE-8	Brine pit		CPP

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 10 of 29)

Priority	Operable Unit	Title of Units	Unit Type	Lead Regulatory Agency	Unit Category
	100-KR-2 (GW Addressed by 100-KR-4) (Continued)	120-KW-6 126-K-1 1607-K4 1607-K6 130-KE-2 130-kw-2 130-K-1 130-K-2 UN-100-K-1	Brine pit Demolition and Inert Landfill Septic Tank Septic Tank Storage Tank Storage Tank Storage Tank Storage Tank Unplanned Release		CPP CPP CPP CPP CPP CPP CPP CPP
17	200-BP-4	216-B-11A&B 216-B-51 216-B-7A&B 216-B-8TF	Reverse Well French drain Crib Crib		
18	200-BP-11	216-B-3 (B Pond) 216-B-3-1 216-B-3-2 216-B-3-3 216-B-3A 216-B-3B 216-B-3C 216-E-25 UN-200-E-14 UN-200-E-92	Pond Ditch Ditch Ditch Pond Pond Pond Pond Unplanned Release Unplanned Release	Ecology	TSD (D-2-5) RPP RPP TSD (D-2-5) TSD (D-2-5) TSD (D-2-5) TSD (D-2-5) RPP RPP RPP
19	200-PO-2	216-A-10 216-A-15 216-A-2 216-A-21 216-A-27 216-A-31 216-A-36A 216-A-36B 216-A-38-1 216-A-4 216-A-45 216-A-5 299-E24-111 UN-200-E-117	Crib French Drain Crib Crib Crib Crib Crib Crib Crib Crib Crib Crib Injection Well Unplanned Release		TSD (D-2-2) TSD (D-2-4)

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 11 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-PO-2 (Continued)	UN-200-E-13 UN-200-E-22 UN-200-E-25 UN-200-E-39 UN-200-E-40 UN-200-E-97	Unplanned Release Unplanned Release Unplanned Release Unplanned Release Unplanned Release Unplanned Release		
20	200-PO-5	207-A 216-A-1 216-A-16 216-A-17 216-A-18 216-A-19 216-A-20 216-A-23A 216-A-23B 216-A-24 216-A-29 216-A-34 216-A-7 216-A-8 216-A-524 241-A-302B 2607-EC UN-200-E-56 UN-200-E-67	Retention Basin Crib French Drain French Drain Trench Trench Trench French Drain French Drain Crib Ditch Ditch Crib Crib Control Structure Catch Tank Septic Tank Unplanned Release Unplanned Release		TSD (D-2-3)
B	100-BC-3 (GW Addressed by 100-BC-5)	118-B-2 118-B-3 118-B-4 118-B-6	Burial Ground Burial Ground Burial Ground Burial Ground	EPA	CPP CPP CPP CPP
B	100-BC-4 (GW addressed by 100-BC-5)	118-B-1 118-C-1 1607-B9	Burial Ground Burial Ground Septic Tank	EPA	
B	100-DR-3 (GW Addressed by 100-HR-3)	116-DR-10 118-D-1 118-D-2 118-D-3 118-D-4 118-DR-1 128-D-1 1607-D1	Pit Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Burning pit Septic Tank	Ecology	

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 12 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
B	100-FR-2	118-F-1	Burial Ground		
		118-F-2	Burial Ground		
		118-F-3	Burial Ground		
		118-F-4	Burial Ground		
		118-F-5	Burial Ground		
		118-F-6	Burial Ground		
		118-F-7	Burial Ground		
		118-F-9	Burial Ground		
		120-F-1	Trench		
		126-F-1	Ash pit		
		128-F-1	Burning pit		
		128-F-3	Burning Pit		
		1607-F1	Septic Tank		
B	100-HR-2 (GW Addressed by 100-HR-3)	118-H-1	Burial Ground	Ecology	RPP
		118-H-2	Burial Ground		RPP
		118-H-3	Burial Ground		RPP
		118-H-4	Burial Ground		RPP
		118-H-5	Burial ground		RPP
		126-H-1	Ash pit		RPP
		128-H-1	Burning pit		RPP
		128-H-2	Burning pit		RPP
		128-H-3	Burning pit		RPP
		132-H-2	Building		RPP
		1607-H1	Septic Tank		RPP
		1607-H4	Septic Tank		RPP
		B	100-KR-3 (GW Addressed by 100-KR-4)		120-KE-1
120-KW-2	French Drain			CPP	
120-KE-3	Trench			CPP	
120-KE-2	French Drain			CPP	
120-KW-5	Storage Tank			CPP	
120-KE-6	Storage Tank			CPP	
120-KE-9	Brine pit			CPP	
120-KW-1	French Drain			CPP	
120-KW-7	Brine pit			CPP	
128-K-1	Burning pit			CPP	
128-K-2	Burning pit			CPP	
130-K-3	Storage tank			CPP	
1607-K1	Septic Tank			CPP	
1607-K2	Septic Tank			CPP	
1607-K3	Septic Tank			CPP	
1607-K5	Septic Tank	CPP			

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 14 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
200-PO-1 (Continued)		216-A-3	Crib		
		216-A-32	Crib		
		216-A-33	French Drain		
		216-A-35	French Drain		
		216-A-40	Trench		
		216-A-41	Crib		
		216-A-9	Crib		
		218-E-1	Burial Ground		
		218-E-13	Burial Ground		
		241-A-151	Diversion Box		
		241-A-302A	Catch Tank		
		2607-E6	Septic Tank		
		2607-EA	Septic Tank		
		UN-200-E-10	Unplanned Release		
		UN-200-E-11	Unplanned Release		
		UN-200-E-12	Unplanned Release		
		UN-200-E-15	Unplanned Release		
		UN-200-E-19	Unplanned Release		
		UN-200-E-20	Unplanned Release		
		UN-200-E-26	Unplanned Release		
		UN-200-E-28	Unplanned Release		
		UN-200-E-31	Unplanned Release		
		UN-200-E-33	Unplanned Release		
		UN-200-E-35	Unplanned Release		
		UN-200-E-42	Unplanned Release		
		UN-200-E-49	Unplanned Release		
		UN-200-E-58	Unplanned Release		
		UN-200-E-60	Unplanned Release		
		UN-200-E-65	Unplanned Release		
		UN-200-E-88	Unplanned Release		
		UN-200-E-96	Unplanned Release		
UN-200-E-114	Unplanned Release				
UN-200-E-142	Unplanned Release				
B	200-PO-4	216-A-30	Crib		
		216-A-37-1	Crib		
		216-A-37-2	Crib		
		216-A-42	Retention Basin		
		216-A-6	Crib		
		2607-EL	Septic Tank		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 15 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
B	200-S0-1	200-E Power Ditch	House Ditch		
		216-C-1	Crib		
		216-C-10	Crib		
		216-C-2	Reverse Well		
		216-C-3	Crib		
		216-C-4	Crib		
		216-C-5	Crib		
		216-C-6	Crib		
		216-C-7	Crib		
		216-C-9	Pond		
		218-C-9	Burial Ground		
		241-CX-70	Storage Tank		
		241-CX-71	Neutralization Tank		
		241-CX-72	Storage Tank		
		2607-E5	Septic Tank		
		2607-E7A	Septic Tank		
		Hot Semi-Works Valve Pit	Valve Pit		
		UN-200-E-36	Unplanned Release		
		UN-200-E-37	Unplanned Release		
		UN-200-E-98	Unplanned Release		
		UN-200-E-141	Unplanned Release		
B	200-TP-1	216-T-21	Trench		
		216-T-22	Trench		
		216-T-23	Trench		
		216-T-24	Trench		
		216-T-25	Trench		
		216-T-32	Crib		
		216-T-36	Crib		
		216-T-5	Trench		
		216-T-7TF	Crib		
B	200-TP-2	2607-WT	Septic Tank		
		200-W Powerhouse Pond	Pond		
		216-T-13	Trench		
		216-T-18	Crib		
		216-T-19TF	Crib		
		216-T-20	Trench		
		216-T-26	Crib		
		216-T-27	Crib		
		216-T-28	Crib		
		216-T-31	French Drain		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 16 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-TP-2 (Continued)	241-TX-152	Diversion Box		
		241-TX-155	Diversion Box		
		241-TX-302B	Catch Tank		
		UN-200-W-14	Unplanned Release		
		UN-200-W-29	Unplanned Release		
		UN-200-W-99	Unplanned Release		
		UN-200-W-113	Unplanned Release		
		UN-200-W-135	Unplanned Release		
B	200-TP-4	216-T-1	Ditch		
		216-T-10	Trench		
		216-T-11	Trench		
		216-T-2	Reverse Well		
		216-T-29	Crib		
		216-T-3	Reverse Well		
		216-T-33	Crib		
		216-T-34	Crib		
		216-T-35	Crib		
		216-T-8	Crib		
		216-T-9	Trench		
		218-W-8	Burial Ground		
		241-T-361	Settling Tank		
		241-TX-154	Diversion Box		
		241-TX-302C	Catch Tank		
		2607-W3	Septic Tank		
		2607-W4	Septic Tank		
		UN-200-W-2	Unplanned Release		
		UN-200-W-3	Unplanned Release		
		UN-200-W-4	Unplanned Release		
		UN-200-W-8	Unplanned Release		
		UN-200-W-27	Unplanned Release		
		UN-200-W-38	Unplanned Release		
		UN-200-W-58	Unplanned Release		
		UN-200-W-65	Unplanned Release		
		UN-200-W-67	Unplanned Release		
		UN-200-W-73	Unplanned Release		
		UN-200-W-77	Unplanned Release		
		UN-200-W-85	Unplanned Release		
		UN-200-W-98	Unplanned Release		
		UN-200-W-102	Unplanned Release		
		UN-200-W-137	Unplanned Release		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 17 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
B	200-ZP-2	207-Z 216-Z-10 216-Z-16 216-Z-17 216-Z-4 216-Z-5 216-Z-6 216-Z-7 216-Z-8 216-Z-9 2607-W8 2607-WA 2607-Z8 UN-200-W-79 UN-200-W-130	Retention Basin Reverse Well Crib Trench Trench Crib Crib Crib French Drain Trench Septic Tank Septic Tank Septic Tank Unplanned Release Unplanned Release		
B	200-IU-3	Central Landfill Original Central Landfill NRDW* Landfill 6607-1 6607-2 UN-600-12	Landfill Landfill Landfill Septic Tank Septic Tank Unplanned Release		TSD (D-6-1)
B	300-FF-2 (GW Addressed by 300-FF-5)	300 Vitrification Test Site 618-1 618-13 618-2 618-3 618-7 618-8 618-9	Test treatment Facility Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground	EPA	CPP CPP CPP CPP CPP CPP CPP
B	300-FF-3 (GW Addressed by 300-FF-5)	300 Interim Filter Backwash Disposal 309-TW-1 309-TW-2 309-TW-3 315 Retired Drain Field 331 Drain field	Neutralization Unit Storage Tank Storage Tank Storage Tank Drain Field Drain Field	EPA	CPP CPP CPP CPP CPP

CPP = CERCLA Past-Practice
 RPP = RCRA Past-Practice
 TSD = Treatment, Storage, and Disposal
 * = Arid Lands Ecology Reserve

APPENDIX C

Prioritized Listing of Operable Units. (sheet 18 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	300-FF-3 (GW Addressed by 300-FF-5) (Continued)	331 Trench 1 331 Trench 2 335 & 336 Retired Drain Fields 618-6 UN-300-4 UN-300-10 UN-300-12 UN-300-13 UN-300-17 UN-300-18 UN-300-39 UN-300-40 UN-300-42 UN-300-43 UN-300-44 UN-300-45 UN-300-5 UN-300-7	Trench Trench Drain Fields Burial Ground Unplanned Release Unplanned Release		CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP CPP
C	100-IU-2	628-1 East White Bluffs Landfill White Bluffs Landfill J. A. Jones #2	Burning pit Landfill Landfill Burial Ground		
C	100-IU-3	USBR* 2,4-D Burial Site Wahulke Slope NIKE Missile Base	Landfill Test Treatment or Support Facility		
C	1100-EM-2	1100 Hoist Rams 1100 HWSA* 1100 Steam Pad Tank #2 1100 Steam Pad Tank #3 1100 Used Oil Tank #4 1100 Used Oil Tank #5 1100 Used Oil Tank #6 700 Area Waste Solvent Tank	Storage Tank Staging Area Storage Tank Storage Tank Storage Tank Storage Tank Storage Tank Storage Tank		

CPP = CERCLA Past-Practice
RPP = RCRA Past-Practice
TSD = Treatment, Storage, and Disposal
* = Arid Lands Ecology Reserve

APPENDIX C

Prioritized Listing of Operable Units. (sheet 19 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
C	1100-EM-3	1208 HWSA	Staging Area		
		1226 HWSA	Staging Area		
		1234 Storage Yard	Staging Area		
		1240 HWSA	Staging Area		
		Jones Yard HWSA	Staging Area		
		Underground Used Oil Tank	Storage Tank		
		UN-3000-1	Unplanned Release		
C	1100-IU-1	6652-C SSL**	Septic Tank		
		Active Septic Tank			
		6652-C SSL**	Septic Tank		
		Inactive Septic Tank			
		6652-I ALE***	Septic Tank		
		Septic Tank			
		6652-G ALE	Septic Tank		
		Septic Tank			
		Rattlesnake Mtn. NIKE Missile Base	Test Treatment or Support Facility		
C	200-BP-10	218-E-2	Burial Ground		
		218-E-2A	Burial Ground		
		218-E-4	Burial Ground		
		218-E-5	Burial Ground		
		218-E-5A	Burial Ground		
		218-E-9	Burial Ground		
		UN-200-E-61	Unplanned Release		
		UN-200-E-95	Unplanned Release		
		UN-200-E-112	Unplanned Release		
C	200-BP-3	216-B-35	Trench		
		216-B-36	Trench		
		216-B-37	Trench		
		216-B-38	Trench		
		216-B-39	Trench		
		216-B-40	Trench		
		216-B-41	Trench		
		216-B-42	Trench		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

* = Arid Lands Ecology Reserve

** = Space Science Laboratory

*** = Hazardous Waste Staging Area

APPENDIX C

Prioritized Listing of Operable Units. (sheet 20 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
C	200-BP-6	216-B-10A	Crib		
		216-B-10B	Crib		
		216-B-13	French Drain		
		216-B-4	Reverse Well		
		216-B-6	Reverse Well		
		216-B-60	Crib		
		218-E-6	Burial Ground		
		218-E-7	Burial Ground		
		241-BX-154	Diversion Box		
		241-BX-155	Diversion Box		
		241-BX-302B	Catch Tank		
		241-BX-302C	Catch Tank		
		241-ER-152	Diversion Box		
		270-E Condensate Neutralization Tank	Neutralization Tank		
		2607-E3	Septic Tank		
		2607-E4	Septic Tank		
		Tile Field South of 218-E-4	Drain Field		
		UN-200-E-1	Unplanned Release		
		UN-200-E-2	Unplanned Release		
		UN-200-E-3	Unplanned Release		
		UN-200-E-41	Unplanned Release		
		UN-200-E-44	Unplanned Release		
		UN-200-E-52	Unplanned Release		
		UN-200-E-54	Unplanned Release		
		UN-200-E-55	Unplanned Release		
		UN-200-E-69	Unplanned Release		
		UN-200-E-80	Unplanned Release		
UN-200-E-85	Unplanned Release				
UN-200-E-87	Unplanned Release				
UN-200-E-90	Unplanned Release				
UN-200-E-103	Unplanned Release				
UN-200-E-140	Unplanned Release				
C	200-BP-8	207-B	Retention Basin		
		216-B-2-1	Ditch		
		216-B-2-2	Ditch		
		216-B-2-3	Ditch		
		216-B-63	Ditch		TSD (D-2-6)
		2607-E9	Septic Tank		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 21 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
C	200-BP-9	200 Area construction pit	Pit		
		216-B-12	Crib		
		216-B-55	Crib		
		216-B-62	Crib		
		216-B-64	Retention Basin		
		241-ER-151	Diversion Box		
		241-ER-311	Catch Tank		
		UN-200-E-64	Unplanned Release		
C	200-NO-1	216-N-1	Pond		
		216-N-2	Trench		
		216-N-3	Trench		
		216-N-4	Pond		
		216-N-5	Trench		
		216-N-6	Pond		
		216-N-7	Trench		
C	200-PO-6	200-E burning pit	Pit		
		218-E-12A	Burial Ground		
		218-E-8	Burial Ground		
		UN-200-E-62	Unplanned Release		
C	200-RO-1	216-S-10D	Ditch		TSD (D-2-7)
		216-S-10P	Pond		TSD (D-2-7)
		216-S-11	Pond		
		216-S-16D	Ditch		
		216-S-16P	Pond		
		216-S-17	Pond		
		216-S-172	Control structure		
		216-S-19	Pond		
		216-S-25	Crib		
		216-S-5	Crib		
		216-S-6	Crib		
		216-U-9	Ditch		
		2607-WZ	Septic Tank		
		2904-S-160	Control structure		
		2904-S-170	Control structure		
		2904-S-171	Control structure		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 22 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
C	200-RO-2	207-S	Retention Basin		
		216-S-1&2	Crib		
		216-S-13	Crib		
		216-S-15	Pond		
		216-S-18	Trench		
		216-S-23	Crib		
		216-S-3	French Drain		
		216-S-7	Crib		
		216-S-8	Trench		
		216-S-9	Crib		
		218-W-9	Burial Ground		
		241-S-151	Diversion Box		
		241-S-302A	Catch Tank		
		241-SX-302	Catch Tank		
		UN-200-W-32	Unplanned Release		
		UN-200-W-34	Unplanned Release		
		UN-200-W-41	Unplanned Release		
		UN-200-W-42	Unplanned Release		
		UN-200-W-49	Unplanned Release		
		UN-200-W-50	Unplanned Release		
		UN-200-W-52	Unplanned Release		
		UN-200-W-69	Unplanned Release		
		UN-200-W-82	Unplanned Release		
		UN-200-W-83	Unplanned Release		
		UN-200-W-108	Unplanned Release		
		UN-200-W-109	Unplanned Release		
		UN-200-W-114	Unplanned Release		
UN-200-W-123	Unplanned Release				
UN-200-W-127	Unplanned Release				
C	200-RO-3	207-SL	Retention Basin		
		216-S-12	Trench		
		216-S-14	Trench		
		216-S-20	Crib		
		216-S-22	Crib		
		216-S-26	Crib		
		218-W-7	Burial Ground		
		240-S-151	Diversion Box		
		240-S-152	Diversion Box		
		240-S-302	Catch Tank		
		2607-W6	Septic Tank		

CPP = CERCLA Past-Practice

RPP = RCRA Past-Practice

TSD = Treatment, Storage, and Disposal

APPENDIX C

Prioritized Listing of Operable Units. (sheet 23 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-RO-3 (Continued)	UN-200-W-116 UN-200-W-30 UN-200-W-35 UN-200-W-43 UN-200-W-56 UN-200-W-61	Unplanned Release Unplanned Release Unplanned Release Unplanned Release Unplanned Release Unplanned Release		
C	200-TP-3	207-T 216-T-12 216-T-14 216-T-15 216-T-16 216-T-17 216-T-4-1D 216-T-4-2 216-T-4A 216-T-4B 216-T-6 UN-200-W-7 UN-200-W-63	Retention Basin Trench Trench Trench Trench Trench Ditch Ditch Pond Pond Crib Unplanned Release Unplanned Release		
C	200-UP-1	216-S-21 216-S-4 216-U-10 216-U-11 216-U-13 216-Z-11 216-Z-19 216-Z-1D 216-Z-20 2607-W9 UN-200-W-68	Crib French Drain Pond Ditch Trench Ditch Ditch Ditch Crib Septic Tank Unplanned Release		
C	200-ZP-3	218-W-1 218-W-1A 218-W-2 218-W-2A 218-W-3 218-W-4A 218-W-11 2607-WWA Z-Plant Burning Pit UN-200-W-44 UN-200-W-132	Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Burial Ground Septic Tank Pit Unplanned Release Unplanned Release		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 24 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
C	200-IU-4	Hanford Townsite Landfill	Landfill		
		Hanford Trailer Camp Landfill	Landfill		
		213 J & K	Crib		
		P-11	Crib		
		UN-600-16	Unplanned Release		
		UN-600-18	Unplanned Release		
		UN-600-19	Spill		
C	300-IU-1	316-4	Crib		
		618-10	Burial Ground		
		618-11	Burial Ground		
		J. A. Jones #1	Landfill		
C	300-FF-4	4713-B French drain	French Drain		
		4722-B French drain	French Drain		
		4722-C French drain	French Drain		
		French drain #10	French Drain		
		French drain #10A	French Drain		
		French drain #1A	French Drain		
		French drain #1B	French Drain		
		French drain #2	French Drain		
		French drain #3	French Drain		
		French drain #4	French Drain		
		French drain #5	French Drain		
		French drain #6	French Drain		
		French drain #7	French Drain		
		French drain #8	French Drain		
		French drain #9	French Drain		
		403 French drain	French Drain		
		4721 French drain	French Drain		
		400 Area process pond and sewer	Pond		
		400 Area retired french drains	French Drain		
		400 Area retired sanitary pond	Pond		
		400 Area retired septic tanks	Septic Tank		
		Sand bottom trench	Trench		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 25 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	300-FF-4 (Continued)	Sanitary sewer Sanitary tile field 4831 laydown hazardous staging UN-400-1	Drain Field Drain Field Staging area Unplanned Release		
D	100-IU-4	Sodium dichromate barrel disposal	Landfill		
D	100-IU-5	White Bluffs pickling acid	Crib		
D	200-SS-1	200-E Powerhouse Ash Pit 218-E-3 2607-E1 2607-E7B 2607-E8 2607-EH 2607-EK 2607-EM 2607-EP 2607-EQ 2607-ER 2607-GF Chemical tile field north of 2703-E	Ash pit Burial ground Septic tank Septic tank Drain field		
D	200-SS-2	200 West Ash Disposal Basin 200 West Burning Pit 200-W Powerhouse Ash Pit 216-W-LC 2607-W1 2607-W2 UN-200-W-88	Ash pit Burning pit Ash pit Crib Septic Tank Septic Tank Unplanned Release		
D	200-IU-1	Exploratory Shaft HWSA Exploratory Shaft Septic Tank 6607-3	Staging Area Septic Tank Septic Tank		

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 27 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-BP-7	UN-200-E-79	Unplanned Release		RPP
	(Continued)	UN-200-E-101	Unplanned Release		RPP
		UN-200-E-105	Unplanned Release		RPP
		UN-200-E-109	Unplanned Release		RPP
*	200-PO-3	216-A-39	Crib	Ecology	RPP
		216-C-8	French Drain		RPP
		241-A Tank Farm (6 units)	Single-Shell Tank		TSD (S-2-4)
		241-A-152	Diversion Box		RPP
		241-A-153	Diversion Box		RPP
		241-A-350	Catch Tank		RPP
		241-A-417	Catch Tank		RPP
		241-A-A	Diversion Box		RPP
		241-A-B	Diversion Box		RPP
		241-AR-151	Diversion box		RPP
		241-AX Tank Farm (4 units)	Single-shell tank		TSD (S-2-4)
		241-AX-151	Diversion box		RPP
		241-AX-152-CT	Catch tank		RPP
		241-AX-152-DS	Diversion box		RPP
		241-AX-155	Diversion box		RPP
		241-AX-501	Valve pit		RPP
		241-AX-A	Diversion box		RPP
		241-AX-B	Diversion box		RPP
		241-C Tank Farm (16 units)	Single-shell tank		TSD (S-2-4)
		241-C-151	Diversion box		RPP
		241-C-152	Diversion box		RPP
		241-C-153	Diversion box		RPP
		241-C-252	Diversion box		RPP
		241-C-301C	Catch tank		RPP
		241-CR-151	Diversion box		RPP
		241-CR-152	Diversion box		RPP
		241-CR-153	Diversion box		RPP
		241-ER-153	Diversion box		RPP
		2607-ED	Septic tank		RPP
		2607-EG	Septic tank		RPP
		2607-EJ	Septic tank		RPP

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

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APPENDIX C

Prioritized Listing of Operable Units. (sheet 28 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-PO-3	UN-200-E-16	Unplanned Release		RPP
	(Continued)	UN-200-E-18	Unplanned Release		RPP
		UN-200-E-27	Unplanned Release		RPP
		UN-200-E-47	Unplanned Release		RPP
		UN-200-E-48	Unplanned Release		RPP
		UN-200-E-68	Unplanned Release		RPP
		UN-200-E-72	Unplanned Release		RPP
		UN-200-E-81	Unplanned Release		RPP
		UN-200-E-82	Unplanned Release		RPP
		UN-200-E-86	Unplanned Release		RPP
		UN-200-E-91	Unplanned Release		RPP
		UN-200-E-118	Unplanned Release		RPP
		UN-200-E-94	Unplanned Release		RPP
		UN-200-E-99	Unplanned Release		RPP
		UN-200-E-100	Unplanned Release		RPP
		UN-200-E-107	Unplanned Release		RPP
*	200-RO-4	241-S Tank Farm (12 units)	Single-shell tank	Ecology	TSD (S-2-4)
		241-S-152	Diversion box		RPP
		241-S-302B	Catch tank		RPP
		241-S-A	Valve pit		RPP
		241-S-B	Valve pit		RPP
		241-S-C	Valve pit		RPP
		241-S-D	Valve pit		RPP
		241-SX Tank Farm (15 units)	Single-shell tank		TSD (S-2-4)
		241-SX-151	Diversion box		RPP
		241-SX-152	Diversion box		RPP
		UN-200-W-10	Unplanned Release		RPP
		UN-200-W-80	Unplanned Release		RPP
		UN-200-W-81	Unplanned Release		RPP
*	200-TP-5	241-TX Tank Farm (18 units)	Single-shell tank	Ecology	TSD (S-2-4)
		241-TX-153	Diversion box		RPP
		241-TX-302A	Catch tank		RPP
		241-TXR-152	Diversion box		RPP
		241-TXR-153	Diversion box		RPP
		241-TY Tank Farm (6 units)	Single-shell tank		TSD (S-2-4)

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

APPENDIX C

Prioritized Listing of Operable Units. (sheet 29 of 29)

<u>Priority</u>	<u>Operable Unit</u>	<u>Title of Units</u>	<u>Unit Type</u>	<u>Lead Regulatory Agency</u>	<u>Unit Category</u>
	200-TP-5 (Continued)	241-TY-153 241-TY-302A 241-TY-302B 242-T-151 2607-WI 2607-WTX UN-200-W-17 UN-200-W-76 UN-200-W-100	Diversion box Catch tank Catch tank Diversion box Septic tank Septic tank Unplanned Release Unplanned Release Unplanned Release		RPP RPP RPP RPP RPP RPP RPP RPP RPP
*	200-TP-6	241-T Tank Farm (16 units) 241-T-151 241-T-152 241-T-153 241-T-252 241-T-301 241-T-302 241-TR-152 241-TR-153 UN-200-W-62 UN-200-W-64 UN-200-W-97	Single-Shell tank Diversion box Diversion box Diversion box Diversion box Catch tank Catch tank Diversion box Diversion box Unplanned Release Unplanned Release Unplanned Release	Ecology	TSD (S-2-4) RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP
*	200-UP-3	241-U Tank Farm (16 units) 241-U-153 241-U-252 241-U-301 241-U-A 241-U-B 241-U-C 241-U-D 241-UR-151 241-UR-152 241-UR-153 241-UR-154 244-UR 2607-WUT UN-200-W-71	Single-shell tank Diversion box Diversion box Catch tank Diversion box Diversion box Diversion box Diversion box Diversion box Diversion box Diversion box Diversion box Diversion box Diversion box Receiving vault Septic tank Unplanned Release	Ecology	TSD (S-2-4) RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP RPP

Note: *This operable unit contains single-shell tanks and is not prioritized with other operable units. Schedules for RFI/CMS work plans and subsequent characterization are being developed as part of the SST system closure/corrective action work plan.

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APPENDIX D
WORK SCHEDULE

- Listing of Currently Identified Interim and Major Milestones
- Time-Scaled Logic Networks

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 1 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-01-00	Complete 14 grout campaigns of double-shell tank waste by December 1996 and maintain currency with feed thereafter.	Dec. 1996
M-01-01	Complete a total of 3 grout campaigns of double-shell tank wastes (includes one campaign of phosphate-sulfate waste) (Replaced by M-01-01A and M-01-01B.)	Sept. 1991
M-01-01A	Complete and verify 2 campaigns of double-shell tank waste (this includes one campaign of phosphate-sulfate waste)	Sept. 1993
M-01-01B	Complete 1 additional campaign of double-shell tank waste (this makes a total of three campaigns including 1 phosphate-sulfate waste campaign)	Dec. 1993
M-01-02	Complete 3 campaigns of double-shell tank waste in CY 1994	Dec. 1994
M-01-02A	Initiate construction of vaults 106-109	Nov. 1992
M-01-03	Complete 4 campaigns of double-shell tank waste in CY 1995	Dec. 1995
M-01-03A	Initiate construction of vaults 110-113	Nov. 1993
M-01-04	Complete 4 campaigns of double-shell tank waste in CY 1996	Dec. 1996
M-01-04A	Initiate construction of vault 114	Nov. 1994
M-01-05	Commitments for additional grout campaigns after December 1996 will be incorporated as interim milestones	Biennially beginning Sept. 1996

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 2 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-02-00	<p>Initiate pretreatment of double-shell tank waste.</p> <p>Double-shell tank waste pretreatment is required prior to disposal of high-activity tank wastes. Pretreatment supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions which are stored in double-shell tanks. Removal of the wastes from double-shell tanks and disposal in grout or glass will allow double-shell tank space to be made available for single-shell tank waste</p>	TBD
M-02-01	Submit to Ecology and EPA the double-shell tank waste disposal program redefinition study	Dec. 1991
M-02-02	Incorporate additional interim milestones to support pretreatment of double-shell tank waste	Jan. 1992
M-03-00	<p>Initiate Hanford Waste Vitrification Plant operations.</p> <p>Waste which is pretreated in B Plant will be designated for disposal in either glass or grout. Pending treatment and final disposal, the wastes must be stored in double-shell tanks. Completion of the vitrification plant will enable the pretreated waste to be removed from double-shell tanks, thus allowing double-shell tank space to be made available for single-shell tank waste. The HWVP also supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions which are stored in double-shell tanks. Initiation of operations is defined to be hot startup</p>	Dec. 1999 ¹
M-03-01	<p>Initiate HWVP construction</p> <p>"Initiation of HWVP construction is defined as start of HWVP site preparation (includes site grading, roads, generic site utilities such as</p>	April 1992

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 3 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-03-01 (Continued)	sewer, domestic water, construction powers, security fencing and construction support buildings, initiation of procurment for long-lead HWVP construction materials and by December 1991, initiate design of HWVP canister storage building)"	
M-03-02	Complete HWVP construction	June 1998 ¹
M-04-00	Provide annual reports of tank waste treatability studies. Wastes stored in double-shell and single-shell tanks, as well as newly generated wastes destined to be stored in the double-shell tanks, will be studied to determine the most appropriate treatment/disposal method. Studies to determine the long-term feasibility of grout or glass for disposal of these wastes are included in the scope of this milestone	Annually Beginning Sept. 1990
M-04-01	Provide letter to Ecology describing work scope to be included in Sept. 1990 report	Dec. 1989
M-05-00	Complete single-shell tank interim stabilization. Complete the single-shell tank interim stabilization activities (removal of pumpable liquid from those 51 single-shell tanks not yet stabilized) for all single-shell tanks except 241-C-105 and 241-C-106. All 149 tanks, including 241-C-105 and 241-C-106 will be interim stabilized and interim isolated by September 1996	Sept. 1995
M-05-01	Interim stabilize 3 single-shell tanks	Sept. 1989
M-05-02	Interim stabilize an additional 4 single-shell tanks	Sept. 1990

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 4 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-05-03	Interim stabilize an additional 4 single-shell tanks	Sept. 1991
M-05-04	Interim stabilize an additional 9 single-shell tanks	Sept. 1992
M-05-05	Interim stabilize an additional 11 single-shell tanks	Sept. 1993
M-05-06	Interim stabilize an additional 8 single-shell tanks	Sept. 1994
M-05-07	Interim stabilize an additional 10 single-shell tanks (stabilization complete except for 241-C-105 and 241-C-106)	Sept. 1995
M-05-08	Interim stabilize Tanks 241-C-105 and 241-C-106	Sept. 1996
M-05-09	Complete interim stabilization and interim isolation of all 149 single-shell tanks	Sept. 1996
M-06-00	Develop single-shell tank waste retrieval technology and complete scale-model testing. Various waste retrieval technologies will be evaluated for retrieving each of the several types of single-shell tank wastes. Emphasis will be placed on optimizing waste removal while minimizing personnel exposure. Promising technologies will be evaluated for each waste type and one or more will be selected for testing using simulated waste in a scale model (minimum 1:12 scale) tank	June 1994
M-06-01	Identify waste retrieval technologies to be tested in scale-model tank	Oct. 1990
M-06-02	Initiate waste retrieval testing in scale-model tank	Oct. 1992
M-07-00	Initiate full-scale demonstration of waste retrieval technology. A full-scale waste retrieval demonstration at a pre-selected single-shell tank will follow scale model testing of waste retrieval technologies (Milestone M-06-00). This	Oct. 1997

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 5 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-07-00 (Continued)	demonstration will be complete when it succeeds in removing no less than 95 percent of the radioactive and chemical waste inventory from the single-shell tank. If any waste remains in the tank or the surrounding soil, final tank closure will proceed under an approved closure plan in Milestone M-08 or M-09. Demonstration initiation is defined as startup of the waste retrieval equipment in the selected single-shell tank	
M-07-01	Submit tank selection criteria, retrieval options and recommended tank selection to Ecology for concurrence	Oct. 1993
M-07-02	Ecology concurrence/non-concurrence of tank selection criteria, retrieval options, and tank selection	Dec. 1993
M-07-03	Complete final design for installation of piping and other required waste removal equipment	Dec. 1994
M-07-04	Submit completion date and completion criteria for full-scale demonstration project to Ecology for concurrence	Oct. 1997
M-07-05	Ecology concurrence/non-concurrence of completion date/criteria	Dec. 1997
M-08-00	Initiate full-scale tank farm closure demonstration project.	June 2004
	The full-scale tank farm demonstration project will include waste retrieval and the installation of a final cover. Decisions as to the appropriate disposal of wastes, tanks, contaminated piping, and soils will follow detailed characterization and regulatory agency approval as part of the closure process. For purposes of this milestone, initiation is defined as full-scale waste retrieval. The full-scale demonstration will serve to verify the various technologies being developed for tank farm closures	

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 6 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-08-01	Submit tank farm selection criteria, closure method(s), tank farm selection rationale, and recommended tank farm selection to Ecology for approval	Jan. 1999
M-08-02	Complete final design for the installation of required piping and other required waste removal equipment	Jan. 2001
M-08-03	Submit tank farm closure plan for selected tank farm to Ecology for approval	Dec. 2003
M-09-00	<p>Complete closure of all 149 single-shell tanks.</p> <p>Closure and removal of required waste from the 149 single-shell tanks will be effected in accordance with the approved closure plan(s). As stated in the Hanford Defense Waste-Environmental Impact Statement Record of Decision, a supplemental EIS will be prepared prior to making any final decisions regarding disposal of single-shell tank waste. The final closure plan(s) will address the recommendations of the supplemental EIS</p>	June 2018
M-09-01	Complete preparation of supplemental EIS and issue draft for public review	June 2002
M-09-02	Submit closure plan to Ecology for approval	Dec. 2003
M-10-00	<p>Complete analyses of at least two complete core samples from each single-shell tank</p> <p>Obtain and analyze a minimum of two core samples from each single-shell tank. Samples will be collected and analyzed to determine the characteristics of significant waste strata to support timely development of tank waste retrieval technology and to assist in preparation of single-shell tank closure plans and the supplemental EIS. Additional sampling may be determined to be necessary to ensure representative samples are obtained from each tank. Samples will be collected and analyzed in accordance with a single-shell tank waste</p>	Sept. 1998

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 7 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-10-00 (continued)	analysis plan approved by Ecology. Data from this initial characterization may be adequate to identify those tanks whose waste will be retrieved. Additional sampling and analysis will be necessary to justify any decision to leave tank waste in place	
M-10-01	Submit draft waste sampling and analysis plan to National Academy of Sciences, Ecology, and EPA	March 1989
M-10-02	Submit waste sampling and analysis plan to Ecology for approval	May 1989
M-10-03	Obtain 15 core samples from 2 tanks (reference sampling tanks)	Dec. 1989
M-10-04	Obtain 4 core samples from 2 single-shell tanks (SSTs)	Sept. 1991
M-10-05	Issue "Integrated Plan - Sampling and Analysis of Hanford Site Wastes Measuring Greater Than 10 mREM per Hour"	March 1992
M-10-06	Obtain 20 core samples from single-shell tanks (SSTs)	Sept. 1992
M-10-07	Obtain 24 core samples from 12 tanks	Sept. 1993
M-10-08	Obtain 44 core samples from 22 tanks	Sept. 1994
M-10-09	Obtain 48 core samples from 24 tanks	Sept. 1995
M-10-10	Obtain 48 core samples from 24 tanks	Sept. 1996
M-10-11	Obtain 48 core samples from 24 tanks	Sept. 1997
M-10-12	Obtain 38 core samples from 19 tanks	Sept. 1998
M-10-13	Restore rotary mode sampling capability at the Hanford Site	Sept. 1992

Table D-1. Major and Interim Milestones--Disposal of Tank Waste.
(sheet 8 of 8)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-11-00	<p>Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.</p> <p>The expanded laboratory hot cells will provide analytical capabilities for waste analyses from single-shell tanks, double-shell tanks, and B Plant pretreatment processing. The hot cells will provide at least double the sample throughput capacity from that which is currently available at the 222-S Laboratory</p>	June 1994
M-11-01	Complete conceptual design for hot cell expansion	June 1989
M-11-02	Complete definitive design for hot cell expansion	March 1992

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 1 of 5)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-12-00	Submit RI/FS or RFI/CMS work plans for 15 operable units.	June 1992
M-12-01	Submit 1100-EM-1 Operable Unit Work Plan (groundwater and source operable unit)	Jan. 1989
M-12-02	Submit 200-BP-1 Operable Unit Work Plan (groundwater and source operable unit)	Feb. 1989
M-12-03	Submit 300-FF-1 Operable Unit Work Plan (source operable unit)	March 1989
M-12-04	Submit 300-FF-5 Operable Unit Work Plan (groundwater operable unit)	Sept. 1989
M-12-05 ¹	Submit 100-HR-1 Operable Unit Work Plan (source operable unit)	June 1989
M-12-05A	Submit rescoped RFI/CMS work plan for 100-HR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-06 ¹	Submit 100-HR-3 Operable Unit Work Plan (groundwater operable unit)	June 1989
M-12-06A	Submit rescoped RFI/CMS work plan for 100-HR-3 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-07 ¹	Submit 100-DR-1 Operable Unit Work Plan (source operable unit)	Oct. 1989
M-12-07A	Submit rescoped RFI/CMS work plan for 100-DR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-08	Submit 100-BC-1 Operable Unit Work Plan (source operable unit)	June 1990

¹Work plan will be prepared in accordance with CERCLA guidance but will reflect RCRA terminology.

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 2 of 5)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-12-08A	Submit rescoped RI/FS work plan for 100-BC-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-09	Submit 100-BC-5 Operable Unit Work Plan (groundwater operable unit)	June 1990
M-12-09A	Submit rescoped RI/FS work plan for 100-BC-5 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Sept. 1991
M-12-10	Submit 100-KR-1 Operable Unit Work Plan (source operable unit)	Aug. 1990
M-12-10A	Submit rescoped RI/FS work plan for 100-KR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Oct. 1991
M-12-11	Submit 100-KR-4 Operable Unit Work Plan (groundwater operable unit)	Aug. 1990
M-12-11A	Submit rescoped RI/FS work plan for 100-KR-4 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Oct. 1991
M-12-12 ¹	Submit 100-NR-1 Operable Unit Work Plan (source and groundwater operable unit)	Dec. 1990
M-12-12A	Submit rescoped RFI/CMS work plan for 100-NR-1 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Dec. 1991
M-12-13	Submit 100-FR-1 Operable Unit Work Plan (source and groundwater operable unit)	April 1991
M-12-13A	Submit rescoped RI/FS work plans for 100-FR-1 and 100-FR-3 operable units, in accordance with final "Hanford Past-Practice Strategy Document"	Nov. 1991

¹Work plan will be prepared in accordance with CERCLA guidance but will reflect RCRA terminology.

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 3 of 5)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-12-14 ¹	Submit 100-NR-3 Operable Unit Work Plan (source and groundwater operable unit)	Dec. 1990
M-12-14A	Submit rescoped RFI/CMS work plan for 100-NR-2 operable unit, in accordance with final "Hanford Past-Practice Strategy Document"	Dec. 1991
M-12-15	Submit 200-UP-2 operable unit work plan (source and groundwater operable unit) or an agreed upon alternate work plan based on results of the U-Plant Aggregate Area Management	June 1992
M-12-16	Submit 100-BC-2 Operable Unit Work Plan (source and groundwater operable unit)	Aug. 1991 DELETED
M-12-17	Submit 200-BP-5 Operable Unit Work Plan (source and groundwater operable unit)	Oct. 1991 DELETED
M-12-18	Submit 100-DR-2 Operable Unit Work Plan (source operable unit)	Dec. 1991 DELETED
M-12-19	Submit 200-ZP-1 Operable Unit Work Plan (source and groundwater operable unit)	Feb. 1992 DELETED
M-12-20	Submit 100-KR-2 Operable Unit Work Plan (source and groundwater operable unit)	April 1992 DELETED
M-13-00	Submit six RI/FS or RFI/CMS work plans per year.	Annually Beginning CY 1993
M-14-00	Complete construction and initiate operations of a low-level mixed waste laboratory. The low-level mixed waste laboratory will provide analytical capabilities to analyze hazardous waste samples, those containing low levels of radioactivity as well as those that are strictly hazardous. The new laboratory will be sized in accordance with the design specifications of the project Conceptual Design Report	Jan. 1992
M-14-01	Complete definitive design for a low-level mixed waste laboratory	Nov. 1990

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 4 of 5)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-15-00	Complete the RI/FS (or RFI/CMS) process for all operable units. All operable units (including groundwater operable units) will have been investigated through the RI/FS (or RFI/CMS) process, and the public comment period will be completed. Specific remedial actions for each operable unit will be selected	Sept. 2005
M-15-01A	Submit draft 1100-EM-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	Dec. 1990
M-15-01B/C	Submit final 1100-EM-1 Remedial Investigation/ Feasibility Study report to EPA and Ecology for review	Dec. 1992
M-15-02A	Submit draft 200-BP-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	May 1993
M-15-02B	Submit draft 200-BP-1 Remedial Investigation Phase 2 report to EPA and Ecology for review	April 1994
M-15-02C	Submit draft 200-BP-1 Feasibility Study Phase 3 report and proposed plan to EPA and Ecology for review	March 1995
M-15-03A	Submit draft 300-FF-1 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	Sept. 15, 1992
M-15-03B	Submit draft 300-FF-1 Remedial Investigation Phase 2 report to EPA and Ecology for review	Dec. 15, 1993
M-15-03C	Submit draft 300-FF-1 Feasibility Study Phase 3 report to EPA and Ecology for review	Aug. 15, 1994
M-15-04A	Submit draft 300-FF-5 Feasibility Study Phase 1 and 2 report to EPA and Ecology for review	July 15, 1993

Table D-2. Major and Interim Milestones--Cleanup of Past-Practice Units.
(sheet 5 of 5)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-15-04B	Submit draft 300-FF-5 Remedial Investigation Phase 2 report to EPA and Ecology for review	Aug. 15, 1994
M-15-04C	Submit draft 300-FF-5 Feasibility Study Phase 3 report to EPA and Ecology for review	June 15, 1995
M-16-00	Complete the remedial actions for all operable units	Sept. 2018

Remedial actions will be completed for each operable unit in accordance with the schedules developed as part of the remedial design (RD)/remedial action (RA) or corrective measure implementation (CMI) work plan

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 1 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-00A	<p>Complete liquid effluent treatment facilities/ upgrades for all Phase I streams.</p> <p>Hanford currently has 19 Phase I liquid effluent streams being discharged to cribs, ponds, or ditches. Phase I streams are defined in the "Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site", September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/remedial actions. Liquid effluent streams are classified as Phase I streams based upon radionuclide/chemical content, regulatory requirements relative to the waste disposal unit, chemical spill potential, and waste disposal unit life expectancy. Each of the Phase I effluent streams shall be either treated or eliminated, as defined in the above referenced report</p> <p>Interim milestones for Phase I Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge</p> <p>Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules</p>	June 1995
M-17-00B	<p>Complete implementation of "Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment" (BAT/AKART) for all Phase II liquid effluent streams at the Hanford Site.</p>	Oct. 1997

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 2 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-00B (Continued)	<p>Hanford's 14 Phase II liquid effluent streams are discharged to cribs, ponds, ditches, or routed to storage facilities. Phase II streams are defined in the "Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site", September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/remedial actions</p> <p>All Phase II effluent streams, except those which have been eliminated (e.g., the 209-E Reflector Water and 163-N Demineralizer Liquid Effluent), are managed through a sequence of interim milestones. Interim milestones for Phase II Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge</p> <p>Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules</p> <p>The October 1997 completion date for Milestone M-17-00B shall remain unchanged unless all parties agree that a change is necessary in accordance with Article XL of the Tri-Party Agreement. The parties recognize that the milestone may be revised to accelerate or delay implementation of BAT/AKART based on the results of the BAT/AKART evaluations for each of the nine Phase II liquid effluent streams included in Milestone M-17-00B. Negotiations on the schedule for implementation of BAT/AKART at each of the Phase II liquid effluent streams shall be finalized by December 1992. Such negotiations shall be based on the BAT/AKART evaluations, the complexity of the required treatment and any other technology necessary to meet effluent guidelines and permitting requirements set forth by Ecology and EPA. DOE will assure Ecology and EPA of meaningful and fully funded</p>	

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 3 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-00B (Continued)	participation in the BAT/AKART determination for each of the following Phase II liquid effluents: B-Plant Cooling Water AY/AZ Tank Farm Steam Condensate 242-A Evaporator Cooling Water 242-A Evaporator Steam Condensate 241-A Tank Farm Cooling Water 244-AR Vault Cooling Water 183-D Filter Backwash 284-E Power Plant Wastewater 400 Area Secondary Cooling Water	
M-17-01	Complete B Pond bypass system installation	Oct. 1990
M-17-02	Complete PUREX ammonia scrubber distillate treatment system	Jan. 1995 DELETED
M-17-03	Complete PUREX demineralizer regeneration neutralization system upgrades	Sept. 1989
M-17-04	Cease discharge of the B Plant Chemical Sewer to the 216-B-3 Pond system Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-04A	Submit the Sampling and Analysis Plan for the B Plant Chemical Sewer to the EPA and Ecology as a primary document	Jan. 1992
M-17-04B	Discontinue the discharge of the B Plant Chemical Sewer to the 216-B-63 Ditch. Reroute this effluent to the 216-B-3 Pond system via the B Plant Cooling Water	Feb. 1992
M-17-04C	Complete construction of 'B Plant Aqueous Make-up Unit (AMU) Area Upgrades' (Project W-004). No chemical inventory will be stored in B Plant AMU tanks until project completion. The chemical addition lines to these tanks will be blanked off, effective September 1991, and will remain so until initiation of acceptance testing	July 1992
M-17-04D	Complete construction of 'B Plant Environmental Compliance Upgrades' (Project W-010H)	July 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 4 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-05	Select 300 Area Process Trench effluent treatment option and establish schedule for implementing treatment and ceasing liquid discharges	March 1990
M-17-06	Cease all discharges to 300 Area Process Trenches	Dec. 1991 DELETED
M-17-06A	Limit discharges to the 300 Area Process Trenches to less than or equal to 400 gallons per minute, averaged over the calendar month	Dec. 1991
M-17-06B	Submit the 300 Area Process Sewer Effluent characterization report based on the October 1991 sampling, to EPA and Ecology	March 1992
M-17-06C	Provide a shut-down plan to EPA and Ecology for the 300 Area Process Trenches. This shut-down plan shall allow for the safe, expeditious, and orderly shut-down of effluents to the 300 Area Process Trenches. This plan shall identify impacts of the shut-down on Agreement activities	April 1992
M-17-06D	Submit to EPA and Ecology the final report detailing the results of the 300 Area Process Trench Expedited Response Action (316-5 Trenches)	July 1992
M-17-06E	Submit to EPA and Ecology an updated <u>Assessment of Potential Environmental Impacts from Continued Discharge to the 300 Area Process Trenches at Hanford</u> , to be based on all available information. This information shall include but not be limited to the characterization of the effluent and the results of the 300 Area Process Trench Expedited Response Action	July 1992
M-17-07	Complete secondary waste treatment system	June 1995 DELETED
M-17-08	Initiate full scale hot operations for '200 Area Treated Effluent Disposal Facility' (Project W-049H), with permitted disposal of effluent to either the soil column or surface water	June 1995
M-17-08A	Submit '200 Area Treated Effluent Disposal Facility' (Project W-049H) design-construction schedule to the EPA and Ecology as a primary document	Feb. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 5 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-08B	<p>Implement BAT/AKART at the generating facilities which will discharge to '200 Area Treated Effluent Disposal Facility' (Project W-049H). Those effluents included in the project scope include:</p> <ul style="list-style-type: none"> Plutonium Finishing Plant Wastewater 242-S Evaporator Steam Condensate 2101-M Laboratory Wastewater 284-W Powerplant Wastewater T Plant Laboratory Wastewater T Plant Wastewater 222-S Laboratory Wastewater PUREX Chemical Sewer <ul style="list-style-type: none"> - PUREX Steam Condensate - PUREX Cooling Water UO3/U Plant Wastewater UO3 Plant Process Condensate B Plant Steam Condensate B Plant Process Condensate B Plant Chemical Sewer 200E Laundry (New Stream) 	June 1995
M-17-09	Initiate full scale hot operations of '300 Area Treated Effluent Disposal Facility' (Project L-045H), with permitted disposal of treated effluent to surface water	Dec. 1994
M-17-09A	Complete definitive design of '300 Area Treated Effluent Disposal Facility' (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document	July 1993
M-17-10	Cease all liquid discharges to hazardous waste land disposal units unless such units have been clean closed in accordance with RCRA	June 1995
M-17-11	Complete actions specified in Appendix D, Table D-5. (Interim Operating Restrictions, and Impact Assessments)	As specified in Table D-5 DELETED (actions reassigned)
M-17-12	Complete actions specified in Appendix D, Table D-4. (Sampling and Analysis Plans)	As specified in Table D-4 DELETED (actions reassigned)
M-17-13	Submit methodology for assessing impact of liquid discharge on groundwater at disposal sites to EPA and Ecology as a primary document	Oct. 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 6 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-13A	Submit a schedule, as a primary document, for implementation of the impact assessment methodology, including but not limited to sites listed below. An assessment will not be required if all disposal to the receiving site has been ceased 1325-N Liquid Waste Disposal Facility 216-Z-20 Crib 216-U-14 Ditch 216-U-17 Crib 216-B-3 Pond system 216-S-26 Crib 216-T-4-2 Ditch 216-T-1 Ditch 284W Powerhouse Pond 2101-M Pond 216-W-LWC Crib D Pond 216-B-63 Ditch 400 Area Pond	30 days after approval notification by EPA and Ecology
M-17-14	Initiate full scale hot operations of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H), with permitted discharge of treated effluent to the soil column	Oct. 1994
M-17-14A	Submit the Architect/Engineering firm design-construction schedule for '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) to the EPA and Ecology	Feb. 1992
M-17-14B	Initiate pilot plant testing for '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) after the effective date of the RD & D Permit. This testing will incorporate the use of actual evaporator process condensate as it is available	June 1992
M-17-14C	Submit Federal Delisting petition for treated effluent from '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) in accordance with 40 CFR 260.22 to the EPA	Aug. 1993
M-17-14D	Initiate Operational Test Procedures for the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) using simulants and/or actual LERF-stored wastes, with recycle to the LERF basins	June 1994
M-17-15	Cease discharge to the 1325-N Liquid Waste Disposal Facility (LWDF) system	June 1995

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 7 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-15A	Limit discharges to the LWDF to less than or equal to 2 gallons per minute, averaged over the calendar month. Discharge flow rate shall be determined by measuring the sumps before and after pumping or through monitoring at the discharge to the 1325-N LWDF	Sept. 1991
M-17-15B	Submit the N Reactor effluent BAT/AKART evaluation to the EPA and Ecology	Jan. 1992
M-17-15C	Submit a plan to cease discharge of all liquid effluents to the 1325-N LWDF to EPA and Ecology. This plan shall be based on the implementation of BAT/AKART	Jan. 1992
M-17-15D	Submit to EPA and Ecology an NPDES permit modification request for the N Reactor effluent	June 1992
M-17-16	Cease all discharges to the 216-Z-20 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08"	June 1995
M-17-16A	Limit discharge of the Plutonium Finishing Plant Wastewater to the 216-Z-20-Crib to less than or equal to 160 gallons per minute, averaged over the calendar month	Sept. 1991
M-17-16B	Install a flume for the Plutonium Finishing Plant Wastewater for the purposes of flow rate measurement. Thereafter the flow rate shall be measured by the flume and automatically recorded on a strip chart recorder	Dec. 1991
M-17-16C	Complete definitive design of 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H) and submit design documentation to the EPA and Ecology as a primary document	Dec. 1992
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by '291-Z Closed Loop Cooling' (Project C-040) and 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H). Reduce the discharge to the 216-Z-20 Crib to less than or equal to 75 gallons per minute, averaged over the calendar month	Jan. 1994
M-17-16E	Complete 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H)	May 1994

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 8 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-17	<p>Cease discharge of the U03/U Plant Wastewater to the 216-U-14 Ditch</p> <p>Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See Milestone M-17-08</p>	June 1995
M-17-17A	<p>Except as specified below, limit discharge of the wastewater to the ditch to less than or equal to 450 gallons per minute, averaged over the calendar month. During the Stabilization run, limit the discharge of wastewater to the ditch to less than or equal to 750 gallons per minute, averaged over the calendar month. Measurement of the discharge flow rate shall be by an instantaneous flow rate recorder system with data recording by a strip chart</p> <p>Note: The Stabilization Run of the U03/U Plant refers to the operation of the Plant in the Calcination Mode as described in the U03/U Plant Wastewater Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage</p>	Sept. 1991
M-17-17B	<p>Cease discharge of the 216-U-14 Ditch surface contamination control water. Limit the 216-U-14 Ditch surface contamination control water point source discharge at less than or equal to 300 gallons per minute, as estimated through engineering calculations, until the completion of the Stabilization Run. At the completion of the Stabilization Run, cease the existing contamination control water point source discharge and initiate construction of the engineered surface contamination control solution. The use of clean water during construction is allowed for dust control. This dust control water shall not exceed 300 gpm and must be discontinued by February 1992</p>	Feb. 1992
M-17-17C	<p>Complete a study which evaluates the need for and feasibility of rerouting the U03/U Plant Wastewater to an alternative site and submit it to the EPA and Ecology</p>	May 1992
M-17-17D	<p>Limit U03/U Plant Wastewater effluent flow to less than or equal to 250 gallons per minute, averaged over the calendar month</p>	Dec. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 9 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-18	Cease discharge of the 242-S Evaporator Steam Condensate to the 216-U-14 Ditch Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-18A	Limit the discharge of steam condensate to the ditch to less than or equal to 50 gallons per minute. This flow rate is based on the maximum design flow	Sept. 1991
M-17-18B	Replace the air sample pump at the 242-S Evaporator and eliminate the seal water contribution to the 242-S Evaporator Steam Condensate	Sept. 1992
M-17-19	Cease discharge to the 216-U-17 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-19A	Limit the discharge of the U03 Plant Process Condensate to the 216-U-17 Crib to less than or equal to 10 gallons per minute, averaged over the calendar month. Operate and test the efficiency of the Fibermist Eliminator throughout the duration of the U03/U Plant Stabilization Run. Discharge of the U03 Process Condensate shall be further limited after the Stabilization Run to less than or equal to 2 gallons per minute, averaged over the calendar month. Discharge flow rate shall be calculated based on a batch counter Note: The Stabilization Run of the U03/U Plant refers to the operation of the Plant in the Calcination Mode as described in the U03 Plant Process Condensate Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage	Sept. 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 10 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-20	Implement BAT/AKART for the PUREX Plant Process Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14	June 1995
M-17-20A	Cease all discharge to the 216-A-45 Crib	Sept. 1991
M-17-21	Implement BAT/AKART for the PUREX Plant Ammonia Scrubber Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14	June 1995
M-17-21A	Cease all discharge to the 216-A-36B Crib	Sept. 1991
M-17-22	Cease discharge of the PUREX Plant Steam Condensate to the 216-B-3 Pond system	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-22A	Discontinue discharge of the PUREX Plant Steam Condensate to the 216-A-30 and 216-A-37-2 Crib. Reroute effluent flow to the 216-B-3 Pond system via the PUREX Chemical Sewer. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-30 and 216-A-37-2 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 11 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-23	Cease discharge of the PUREX Plant Cooling Water to the 216-B-3 Pond system	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-23A	Reroute the PUREX Plant Cooling Water effluent to the 216-B-3 Pond system via the PUREX Chemical Sewer. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992
M-17-24	Cease discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-24A	Complete PUREX reconfiguration and source control to minimize volume and reroute the remaining PUREX Cooling Water and Steam Condensate to the 216-B-3 Pond system via the PUREX Chemical Sewer. Limit the discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system to less than or equal to 600 gallons per minute, averaged over the calendar month. Measurement of the discharge flow volume shall be by a combination of magnetic and pneumatic flowmeters with data recording by a strip chart recorder. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	June 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 12 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-25	<p>Cease all discharge to the 216-B-55 Crib. There shall be no further soil column discharge of B Plant Steam Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-55 Crib may resume if supported by the environmental assessment agreed to by EPA and Ecology</p> <p>Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08</p>	Sept. 1991
M-17-26	<p>Cease discharge to the 216-B-62 Crib. There shall be no further soil column discharge of B Plant Process Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-62 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology</p> <p>Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08</p>	Sept. 1991
M-17-27	<p>Submit the Sampling and Analysis Plan for the B Plant Cooling Water to the EPA and Ecology as a primary document</p>	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 13 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-28	Cease discharge to the 216-A-08 Crib. There shall be no further soil column discharge of this effluent until BAT/AKART is implemented; in the interim, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-08 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology	Sept. 1991
M-17-29	Implement BAT/AKART for the 242-A Evaporator Process Condensate	October 1994
M-17-29A	Cease all discharges to the 216-A-37-1 Crib. No soil column disposal of this effluent shall occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14. Upon restart of the 242-A Evaporator in Fiscal Year 1992, process condensate will be routed to the LERF basins for storage and eventual processing via the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H)	Sept. 1991
M-17-30	Submit the Sampling and Analysis Plan for the 242-A Evaporator Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-31	Submit the Sampling and Analysis Plan for the 242-A Evaporator Steam Condensate to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 14 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-32	Complete 'Tank Farm Ventilation Upgrade' (Project W-030)	Dec. 1996
M-17-32A	Submit the Sampling and Analysis Plan for the 241-A Tank Farm Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-33	Submit the Sampling and Analysis Plan for the 244-AR Vault Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-34	Cease all discharges to the 216-W-LWC Crib	Jan. 1995
M-17-34A	Submit the Sampling and Analysis Plan for the 2724-W Laundry Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-34B	Complete construction of Laundry Effluent 2724-W Wastewater treatment project (B-697)	Jan. 1992
M-17-35	Cease discharge of the Decontamination Laundry Facility liquid effluent to the 216-B-3 Pond system	June 1995

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 15 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-35A	Complete definitive design of 'Decontamination Laundry Facility' (Project B-503) and submit design documentation to the EPA and Ecology as a primary document	Sept. 1992
M-17-35B	Submit the construction test plan for 'Decontamination Laundry Facility' (Project B-503) to the EPA and Ecology as a primary document	April 1993
M-17-35C	Complete construction of 'Decontamination Laundry Facility' (Project B-503)	October 1994
M-17-35D	Initiate full-scale hot operations of the Decontamination Laundry Facility with discharge of BAT/AKART effluent to the 216-B-3 Pond system	Jan. 1995
M-17-36	Submit the Sampling and Analysis Plan for the 183-D Filter Backwash to the EPA and Ecology as a primary document	April 1992
M-17-37	Submit the Sampling and Analysis Plan for the 284-E Powerplant Wastewater to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan	April 1992
M-17-38	Cease all discharges to the 284-W Powerplant Pond Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-38A	Submit the Sampling and Analysis Plan for the 284-W Powerplant Wastewater to the EPA and Ecology as a primary document	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 16 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-39	Cease all discharges to the 216-S-26 Crib Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-39A	Submit the Sampling and Analysis Plan for the 222-S Laboratory Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-40	Cease all discharges to the 216-S-10 Ditch	October 1991
M-17-41	Cease all discharge to the 216-T-4-2 Ditch Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-41A	Submit the Sampling and Analysis Plan for the T Plant Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-42	Cease all discharges to the 216-T-1 Ditch Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	June 1995
M-17-42A	Submit the Sampling and Analysis Plan for the T Plant Laboratory Wastewater to the EPA and Ecology as a primary document	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 17 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-17-43	Cease all discharges to the 2101-M Pond	June 1995
	Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08	
M-17-43A	Eliminate effluent contributions to the 2101-M Laboratory Wastewater from 2 of 9 HVAC coolers serving the 2101-M Laboratory	Jan. 1992
M-17-43B	Submit the Sampling and Analysis Plan for the 2101-M Laboratory Wastewater to the EPA and Ecology as a primary document	Jan. 1992
M-17-44	Submit the Sampling and Analysis Plan for the 400 Area Secondary Cooling Water to the EPA and Ecology as a primary document	April 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 18 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-18-00	Complete Waste Receiving and Processing (WRAP) Module I construction and initiate operations.	Sept. 1996
	The WRAP Module I is required to sort and repackage wastes that are planned to be retrieved from retrievable storage units. Much of the waste currently stored in the retrievable storage units is anticipated to be radioactive mixed waste. Some of the radioactive waste stored on the pads is known to contain extremely hazardous waste as well as federally land-banned waste	
M-18-01	Complete construction of WRAP Module I	Sept. 1995
M-19-00	Complete WRAP Module II construction and initiate operations.	Sept. 1999
	The WRAP Module II will include waste treatment capabilities to minimize land disposal of low-level radioactive waste and radioactive mixed waste. The September 1999 completion date of WRAP Module II is critical to achieving compliance for the management of wastes that are prohibited from land disposal and extended storage	
M-19-01	Complete construction of WRAP Module II	Sept. 1998
M-20-00	Submit Part B permit applications or closure plans for all RCRA TSD units.	May 1996
	All Part B permit applications, closure plans, and post-closure permit applications will be submitted to Ecology and the EPA by May 1996. Individual unit submittals will occur as shown in the Appendix D work schedules. Scheduled submittal dates shall be enforceable as interim milestones	
M-20-01	Submit HWVP (TS-2-5) Part B to Ecology and EPA	July 1989

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 19 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-20-02	Submit 616 Storage Facility (S-6-1) Part B to Ecology and EPA	July 1989
M-20-03	Submit Single-Shell Tank System (S-2-4) Closure/Corrective Action Work Plan to Ecology and EPA	Sept. 1989
M-20-04	Submit 2101-M Pond (D-2-1) Closure Plan to Ecology and EPA	Sept. 1989
M-20-05	Submit Central Waste Complex - RMW Storage (B-2-4) Part B to Ecology and EPA	Oct. 1991
M-20-06	Submit Low-Level Burial Grounds (D-2-9) Part B to Ecology and EPA	Dec. 1989
M-20-07	Submit Nonradioactive Dangerous Waste Landfill (D-6-1) Closure/Post-Closure Plan to Ecology and EPA	Aug. 1990
M-20-08	Submit 305-B Storage Facility (S-3-2) Part B to Ecology and EPA	Jan. 1990
M-20-09	Submit 216-B-3 Pond (D-2-5) Closure/Post-Closure Plan to Ecology and EPA	March 1990
M-20-10	Submit 300 Area Waste Acid System (TS-3-1) Closure Plan to Ecology and EPA (includes 311 Tanks)	June 1990
M-20-11	Submit PUREX Tunnels (S-2-1) Part B to Ecology and EPA	Sept. 1990
M-20-12	Submit Central Waste Complex - (TS-2-4) WRAP Part B to Ecology and EPA	Oct. 1991
M-20-13	Submit 303-K Storage Area (S-3-1) Closure Plan to Ecology and EPA	April 1990
M-20-14	Submit 4843 Alkali Metal Storage Facility (S-4-1) Closure Plan to Ecology and EPA	June 1991
M-20-15	Submit 304 Concretion Facility (TS-3-2) Closure Plan to Ecology and EPA	April 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 20 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-20-16	Submit Double-Shell Tanks (S-2-3) Part B to Ecology and EPA	June 1991
M-20-17	Submit 242-A Evaporator (T-2-6) Part B to Ecology and EPA	June 1991
M-20-18	Submit 3718-F Alkali Metal Treatment and Storage Facility (TS-3-3) Closure Plan to Ecology and EPA	Dec. 1991
M-20-19	Submit Simulated High-Level Slurry Treatment/Storage (TS-3-4) Closure Plan to Ecology and EPA	Sept. 1989
M-20-20	Submit 325 Waste Treatment Unit and 3100 Hazardous Waste Treatment Unit Part B to Ecology and EPA	April 1992
M-20-21	Establish new interim milestone date for submittal of B Plant Part B Permit Application or Closure Plan	Jan. 1992
M-20-22	Submit 222-S Laboratory (TS-2-1) Part B to Ecology and EPA	Dec. 1991
M-20-23	Submit TRUSAF Storage (S-2-2) Part B to Ecology and EPA	June 1992
M-20-24	Submit PUREX (TS-2-6) Part B to Ecology and EPA	Sept. 1992
M-20-25	Submit Hanford Patrol Academy Demolition Sites (T-11-1) Part B to Ecology and EPA	Nov. 1992
M-20-26	Submit Ashpit Demolition Site (T-2-2) Closure Plan to Ecology and EPA	Nov. 1992
M-20-27	Submit Hexone Storage and Treatment (TS-2-2) Closure Plan to Ecology and EPA	Nov. 1992
M-20-28	Submit E-8 Borrow Pit Demolition Site (T-2-1) Closure Plan to Ecology and EPA	Nov. 1992
M-20-29	Submit MASF (T-4-1) Part B to Ecology and EPA	Nov. 1993

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 21 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-20-30	Submit 303-M Oxide Facility (T-3-2) Part B to Ecology and EPA	Oct. 1992
M-20-31	Submit 1301-N/1325-N (D-1-2) Closure Plan/ Post-Closure Plan to Ecology and EPA	May 1994
M-20-32	Submit 300 Area Process Trenches (D-3-1) Closure/Post-Closure Plan to Ecology and EPA	Aug. 15, 1994
M-20-33	Submit 216-A-10 Crib (D-2-2) Closure/ Post-Closure Plan to Ecology and EPA	March 1996
M-20-34	Submit 216-A-36B Crib (D-2-4) Closure/ Post-Closure Plan to Ecology and EPA	March 1996
M-20-35	Submit 1324-N/1324-NA (T-1-2) Closure Plan to Ecology and EPA	Sept. 1994
M-20-36	Submit 216-A-29 Ditch(D-2-3) Closure/ Post-Closure Plan to Ecology and EPA	May 1996
M-20-37	Submit 216-U-12 Crib (D-2-8) Closure Plan/ Post-Closure Plan to Ecology and EPA	Nov. 1994
M-20-38	Submit 216-B-63 Trench (D-2-6) Closure Plan to Ecology and EPA	May 1996
M-20-39	Submit 216-S-10 Pond and Ditch (D-2-7) Closure Plan to Ecology and EPA	May 1996
M-20-40	Submit 100-D Ponds (D-1-1) Closure Plan to Ecology and EPA	Feb. 1993
M-20-41	Submit 105-DR (T-1-1) Closure Plan to Ecology and EPA	Sept. 1990
M-20-42	Submit Thermal Treatment (T-X-3) Part B to Ecology and EPA	Dec. 1993
M-20-43	Submit Physical/Chemical Treatment (T-X-2) Part B to Ecology and EPA	Dec. 1994
M-20-44	Submit Biological Treatment (T-X-1) Part B to Ecology and EPA	Dec. 1995

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 22 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-20-45	Submit petitions to Ecology to withdraw Part A permit applications for 332 Storage Facility, 1706-KE Treatment Facility, 2727-WA Sodium Storage Facility, 221-T Alkali Metal Treatment and Storage Facility, and 324 Sodium Treatment Pilot Plant	June 1989
M-20-46	Submit petitions to Ecology to manage the following facilities as "treatment by generator" facilities: T Plant Treatment Tank, 222-S Treatment Tank, PUREX Treatment Tanks, 204-AR Waste Unloading Facility, and 241-Z Treatment Tank	June 1989
M-20-47	Submit Part B permit application for 200 East Area LERF to EPA and Ecology	June 1991
M-20-49	"Submit RCRA research, development and demonstration (RD&D) permit application for the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility (Project C-018H) pilot plant testing in accordance with 40 CFR 270.65."	Oct. 1991
M-20-50	"Submit complete RCRA Part B permit application for the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility (Project C-018H) to Ecology for approval, which includes 80% design detail and available pilot plant test results, to Ecology as a primary document."	Aug. 1993
M-21-00	Submit RCRA interim status compliance assessments for all TSD units.	April 1989
	RCRA operational units and those undergoing closure will be assessed for compliance with RCRA and state Dangerous Waste interim status requirements. Part A applications which will be withdrawn or units not yet constructed are not included in these assessments. Copies of the assessment documentation will be provided to Ecology within 30 days of assessment completion. The last assessment will be completed by March 31, 1989. Facilities to be assessed by March 31, 1989, include tank farms, low-level burial grounds, Plutonium Finishing Plant, PUREX, B Plant,	

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 23 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-21-00 (Continued)	N Reactor, 100 K Area Fuel Storage, Fast Flux Text Facility, T Plant, 222-S, 616 Storage Facility, Central Waste Complex, Nonradioactive Dangerous Waste Landfill, 300 Area Fuel Fabrication Facilities, Patrol demolition site, 4843 Sodium Storage Facility, 3718-F Alkali Metal Treatment and Storage, single-shell tanks, hexone tanks, 183-H, 2727-S, 300 Area Solvent Evaporator, 105-DR Sodium Fire Facility, E-8 Borrow Pit, 200 West Ash Pit, 216-U-12 Crib, 2101-M Pond, 216-S-10 Ditch and Pond, and 100-D Ponds.	
M-22-00	Establish enforceable compliance action schedules. Schedules will be developed for review and approval by Ecology and the EPA for any actions identified in the interim status compliance assessments that are necessary to ensure compliance with interim status requirements. Specific compliance actions will become enforceable interim milestones under M-23-00.	Dec. 1989
M-22-01	Submit petitions or requests for variance from interim status standards to Ecology and EPA.	Sept. 1989
M-23-00	Complete Interim Status Corrective Actions. Complete actions identified in interim status compliance assessments (M-21-00) excluding groundwater monitoring and closure plans. Petitions for modification of inspection and labeling requirements were submitted to Ecology in September 1989 (M-21-01). Pending resolution, inspections and labeling will be performed per existing operations procedures.	Sept. 1991
M-23-01	Resubmit Treatment by Generator Requests for: T-Plant, 222-S, PUREX and 204-AR.	Sept. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 24 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-23-02	Resubmit Request for Part A Permit Application withdrawal for the following facilities: 221-T Containment System Test Facility and the 324 Sodium Removal Pilot Plant	Jan. 1990
M-23-03	Complete Waste Analysis Plans for Double Shell Tanks, 242-A Evaporator, and B Plant active TSD units. Waste Analysis Plans will be upgraded when additional laboratory capabilities are available pursuant to Milestones M-11-00 and M-14-00	Dec. 1990
M-23-04	Complete Waste Analysis Plans for 4843 Storage Facility and Single Shell Tanks	June 1990
M-23-05	Complete Contingency Plans for Low-Level Burial Grounds, 4843 Storage Facility, Central Waste Complex, T-Plant, TRUSAF, and 616	June 1990
M-23-06	Complete Contingency Plans for Single-Shell Tanks, Double-Shell Tanks and 242-A Evaporator	Oct. 1990
M-23-07	Complete Interim Status Corrective Actions for 222-S Storage Pad	March 1990
M-23-08	Complete Interim Status Corrective Actions for 4843 Storage Facility	June 1990
M-23-09	Notify Ecology of Decision on Operating Status of 3718-F Alkali Metal Treatment Facility	Sept. 1990
M-23-10	If Operational, Complete Interim Status Corrective Actions for 3718-F	Sept. 1991 DELETED
M-23-11	Complete Interim Status Corrective Actions for Single Shell Tanks	Dec. 1990
M-23-12	Complete Interim Status Corrective Actions for Double Shell Tanks	Dec. 1990
M-23-13	Complete Interim Status Corrective Actions for 242-A Evaporator	Dec. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 25 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-23-14	Complete Interim Status Corrective Actions for Low-Level Burial Grounds	Jan. 1991
M-23-15	Complete Interim Status Corrective Actions for TRUSAF (224-T)	June 1990
M-23-16	Complete Interim Status Corrective Actions for 616 facility	June 1990
M-23-17	Complete Interim Status Corrective Actions for Central Waste Complex	June 1990
M-23-18	Complete Interim Status Corrective Actions for B-Plant	Sept. 1991
M-23-19	Complete All B-Plant Cell 4 Corrective Actions	Dec. 1990
M-23-20	Complete Interim Status Corrective Actions for T-Plant.	Jan. 1991
M-24-00	Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and 50 per year thereafter until all land disposal units and single-shell tanks are determined to have RCRA compliant monitoring systems	Annually Beginning CY 1989

USDOE will install groundwater monitoring wells around RCRA land disposal units and the single-shell tanks at the rate described above until Ecology determines that all such groundwater monitoring systems meet the requirements of WAC 173-303-645.

Installation of groundwater wells shall mean that wells have been drilled, adequately sealed, and screened over no more than 15 feet of the aquifer unless otherwise approved by Ecology, that all pumps and associated sampling equipment have been installed, and that such wells have been developed sufficiently to provide satisfactory samples for all parameters to be analyzed.

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 26 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	Specific units to receive groundwater wells and the number of wells to be installed at each unit will be identified in Appendix D in two-year intervals (i.e., CY 1989 and CY 1990 now, CY 1990 and CY 1991 at the next annual update, etc.). Such schedules will be enforceable as interim milestones.	
M-24-01	Install 10 additional wells around the Low-Level Burial Grounds for a total of 45 RCRA groundwater wells	Dec. 1989
M-24-02	Install 5 additional wells around B Pond for a total of 9 RCRA monitoring wells	Dec. 1989
M-24-03	Install 12 wells around the SSTs for a total of 12 RCRA monitoring wells	Dec. 1989
M-24-04	Install 2 additional wells around the grout vault area for a total of 7 RCRA monitoring wells	Dec. 1989
M-24-05	Install 1 additional well around the Grout Vault Area for a total of 8 RCRA monitoring wells	Dec. 1990
M-24-06	Install 6 additional wells around the Low-Level Burial Grounds for a total of 51 RCRA monitoring wells	Dec. 1990
M-24-07	Install 11 additional wells around the SSTs for a total of 23 RCRA monitoring wells (Note: Major Milestone M-24-00 for 1990 was also extended to October 7, 1991 to reflect this change.)	Oct. 7, 1991
M-24-08	Install 4 wells around the B-63 Trench for a total of 4 RCRA monitoring wells	Dec. 1990
M-24-09	Install 3 wells around the S-10 Ditch and Pond for a total of 3 RCRA monitoring wells	Dec. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 27 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-24-10	Install 4 wells around the U-12 Crib for a total of 4 RCRA monitoring wells	Dec. 1990
M-24-11	Install 1 additional well around B Pond for a total of 37 RCRA monitoring wells	Dec. 1990
M-24-12	Install 18 additional RCRA wells around low-level burial grounds (69 total)	Dec. 1991
M-24-13	Install 3 RCRA wells around 216-S10-Pond	Dec. 1991
M-24-14	Install 4 additional RCRA wells around the 100-D Ponds	Dec. 1991
M-24-15	Install 10 additional RCRA wells around the SSTs (33 total)	Dec. 1991
M-24-16	Install 7 additional RCRA wells around the B-Pond (17 total)	Dec. 1991
M-24-17	Install 3 additional RCRA wells around the 1324-N/NA and 1 around the 1325-N Ponds	Dec. 1991
M-24-18	Install 4 additional RCRA wells around the 216-A-29 ditch	Dec. 1991
M-24-19	Install 10 additional RCRA wells around the low-level burial grounds (79 total)	Dec. 1992
M-24-20	Install 2 additional RCRA wells around the Grout facility (10 total)	Dec. 1992
M-24-21	Install 2 RCRA wells around the 1301-N Crib (9 total)	Dec. 1992
M-24-22	Install 1 additional RCRA well around the 1324-N Pond (12 total)	Dec. 1992
M-24-23	Install 1 additional RCRA well around the S-10 Pond and Ditch (7 total)	Dec. 1992
M-24-24	Install 2 additional RCRA wells around the B-63 Trench (6 total)	Dec. 1992
M-24-25	Install 2 additional RCRA wells around the 216-A-29 Ditch (9 total)	Dec. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 28 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-24-26	Install 2 RCRA wells around the NRDWL (9 total)	Dec. 1992
M-24-27	Install 1 additional RCRA well around the 100-D Ponds (5 total)	Dec. 1992
M-24-28	Install 2 additional RCRA wells around the B-Pond (19 total)	Dec. 1992
M-24-29	Install 2 additional RCRA wells around the SSTs (35 total)	Dec. 1992
M-25-00	<p>Provide annual reports of studies/efforts that are in progress to identify alternatives to land disposal of radioactive mixed wastes</p> <p>The annual reports will provide information regarding actions taken to minimize waste generation, recycle/reclaim wastes, or treat wastes</p> <p>No interim milestones to be identified; each annual report is tracked as a major milestone</p>	<p>Annually Beginning March 1990</p>
M-26-00	<p>Submit "Hanford Land Disposal Restriction Plan for Mixed Wastes" (LDR Plan) in accordance with "Requirements for the Hanford LDR Plan" issued by EPA and Ecology, dated April 10, 1990</p> <p>Land disposal restriction (LDR) requirements include limitations on storage of specified hazardous wastes (including mixed wastes). In accordance with approved plans and schedules, DOE shall develop and implement treatment technologies necessary to achieve full compliance with LDR requirements for mixed wastes at the Hanford Site. LDR plans and schedules shall be developed with consideration of other Action Plan milestones and will not become effective until approved by EPA (or Ecology upon authorization to administer LDR pursuant to Section 3006 of RCRA). Disposal of LDR wastes at any time is prohibited except in accordance with applicable LDR requirements. DOE shall comply with all applicable LDR requirements</p>	Oct. 1990

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 29 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	for nonradioactive wastes at all times. The LDR Plan will include, but not be limited to the following:	
	<ul style="list-style-type: none"> a. Waste Characterization Plan; b. Storage Report; c. Treatment Report; d. Treatment Plan; e. Waste Minimization Plan; f. A schedule, depicting the events necessary to achieve full compliance with LDR requirements; g. A process for establishing interim milestones. 	
M-26-01	Submit an Annual Hanford Land Disposal Restrictions Report in accordance with the LDR Plan to cover the period from October 1 through September 30.	Annually Beginning October 1991
	The reports shall include a description of activities taken in accordance with the LDR Plan and prior annual reports to achieve full compliance with LDR requirements. The reports shall update all information contained in the LDR Plan and the prior annual report, including plans and schedules.	
M-26-02	Establish interim milestones for LDR compliance	Annually Beginning October 1990
	Schedules for achieving compliance with LDR requirements at TSD mixed waste units (or as otherwise approved) shall be developed in accordance with the LDR Plan and the annual reports. Such schedules will be subject to review and approval by EPA (or Ecology upon authorization to administer LDR pursuant to Section 3006 of RCRA).	
M-26-03	Cease discharge of 242-A Evaporator process condensate effluent to LERF units	Dec. 1994
	DOE may discharge process condensate effluent from the 242-A Evaporator to Liquid Effluent Retention Facility (LERF) units from December 1990 through December 1994 if (1) the placement of such effluent	

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 30 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-26-03 (Continued)	into LERF is necessary for completion of milestones required by the Agreement; (2) interim status authorization includes these units or a RCRA permit covering these units has been issued; (3) the units satisfy the requirements of 40 CFR Part 264, Subpart K, or 40 CFR Part 265, Subpart K; (4) the units maintain a floating cover which minimizes evaporation; (5) the units comply with all applicable hazardous waste requirements; and (6) prior certification of compliance with 40 CFR 268.4(a)(3) is submitted in accordance with 40 CFR 268.4(a)(4). Discharges of effluent containing hazardous waste subject to the land disposal restrictions other than process condensate from the evaporator to LERF is prohibited.	
M-26-04	Remove all hazardous waste residues from the 242-A Evaporator LERF units	June 1995
	Remove all hazardous waste residues (including any liquid waste) that do not meet LDR treatment standards and applicable prohibition levels imposed by regulation or statute and residues from wastes prohibited from land disposal where no treatment standards have been established and no prohibition levels apply, or which are not delisted pursuant to 40 CFR 260.22 and WAC 173-303-072.	
M-27-00	Submit all Aggregate Area Management Study Reports (AAMSR) for the 200 Area to EPA and Ecology as secondary documents. These documents shall be prepared in accordance with the objective of the "Hanford Past-Practice Investigation Strategy" and the outlines provided in the "200 Area Aggregate Area Management Study Guidelines," both of which are included in Appendix F.	Sept. 1992
M-27-01	Submit methodology and format for AAMSR (to be included as Chapter 1 of each AAMSR) to EPA and Ecology as secondary documents	June 1991

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 31 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-27-02	Submit AAMSR for U-Plant Waste Management Area (for all source term operable units with "200-UP" designations)	Jan. 1992
M-27-03	Submit AAMSR for Z-Plant Waste Management Area (for all source term operable units with "200-ZP" designations)	Feb. 1992
M-27-04	Submit AAMSR for REDOX Waste Management Area (for all source term operable units with "200-RO: designations)	March 1992
M-27-05	Submit AAMSR for T-Plant Waste Management Area (for all source term operable units with "200-TP" designations and for operable unit 200-SS-2)	April 1992
M-27-06	Submit AAMSR for PUREX Waste Management Area (for all source term operable units with "200-PO" designations)	May 1992
M-27-07	Submit AAMSR for B-Plant Waste Management Area (for all source term operable units with "200-BP" designations [except for the 200-BP-1 operable unit] and for operable units 200-SS-1 and 200-IU-6)	June 1992
M-27-08	Submit AAMSR for Semi-Works Waste Management Area (for all source term operable units with "200-SO" designations)	July 1992
M-27-09	Submit AAMSR for 200-North Waste Management Area (for all operable units with "200-NO" designations, including groundwater impacted by the source terms)	Aug. 1992
M-27-10	Submit AAMSR for 200-West Groundwater Aggregate Area, including all groundwater impacted by the 200-West Area source term operable units	Sept. 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 32 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-27-11	Submit AAMSR for 200-East Groundwater Aggregate Area, including all groundwater impacted by the 200-East Area source term operable units	Sept. 1992
M-28-00	Submit all soils and groundwater background determination documents to EPA and Ecology.	April 1992
M-28-01	Submit soils background sampling and analysis plan and quality assurance project plan (secondary document)	June 1991
M-28-02	Submit background methodology description document for soils and groundwater (secondary document)	July 1991
M-28-03	Submit soils study report (primary document), establishing background values for soil at the Hanford Site and include report in Appendix F	Feb. 1992
M-28-04	Submit evaluation report on existing groundwater data (primary document) establishing background values for groundwater at the Hanford Site and include report in Appendix F	April 1992
M-29-00	Develop and submit documentation to EPA and Ecology describing Hanford risk assessment methodology	March 1992
M-29-01	Identify and submit descriptions of codes and models (secondary document) to be used in risk assessment	Sept. 1991
M-29-02	Submit a plan for development of area-wide groundwater models to support risk assessment and to evaluate impacts of changing groundwater flow fields (secondary document)	Dec. 1991
M-29-03	Submit risk assessment methodology document (primary document) and include document in Appendix F	March 1992

Table D-3. Major and Interim Milestones--Permitting and Closures of TSD Units. (sheet 33 of 33)

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-30-00	Complete integrated general investigations and studies for the 100-Area	Sept. 1993
M-30-01	Submit a report (secondary document) to EPA and Ecology evaluating the impact to the Columbia River from contaminated springs and seeps, as described in the operable unit work plans listed in M-30-03	Feb. 1992
M-30-02	Submit a plan (primary document) to EPA and Ecology to determine cumulative health and environmental impacts to the Columbia River, incorporating results obtained under M-30-01	May 1992
M-30-03	Complete all non-intrusive field work as identified in draft work plans for the following operable unit work plans: 100-HR-1, 100-HR-3, 100-DR-1, 100-BC-1, 100-BC-5, 100-KR-1, 100-KR-4, 100-NR-1, 100-NR-2, 100-FR-1 and 100-FR-3	Sept. 1992
M-30-04	Submit a report (secondary document) to EPA and Ecology evaluating the interaction of Columbia River and the unconfined aquifer for aquifer hydraulic parameters	Sept. 1992
M-30-05	Install all field instrumentation and initiate monitoring activities necessary to perform long-term evaluation of Columbia River and unconfined aquifer interaction, in accordance with the tasks defined in operable unit work plans listed in M-30-03	Sept. 1993
M-31-00	Provide additional double-shell tank capacity. Construction complete.	TBD
M-31-01	Complete the Conceptual Design Reports (CDR) for up to four (4) tanks. DOE-RL will propose appropriate milestones for tank construction upon completion of conceptual design	Sept. 1992
M-31-02	Recommend additional double-shell tank milestone(s)	Sept. 1992

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND	CY 1992												CY 1993				1994	1995	1996	1997	1998
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
MAJOR <input type="radio"/> TARGET DATE <input type="radio"/> INTERIM <input type="checkbox"/> INTEGRATION <input type="checkbox"/>	<p>M-12-06A 100-1R-3 GROUNDWATER OPERABLE UNIT</p> <p>COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 - RFOCAS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-06 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-07A 100-DR-1</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 - RFOCAS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-07 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-08A 100-BC-1</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 - RIFS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-08 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-09A 100-BC-6 GROUNDWATER OPERABLE UNIT</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED SEPTEMBER 1991 - RIFS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-09 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-0A 100-101-1</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED OCTOBER 1991 - RIFS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-10 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-11A 100-1R-4 GROUNDWATER OPERABLE UNIT</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED OCTOBER 1991 - RIFS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-11 UPON WORK PLAN APPROVAL</p>																				
<p>M-12-0A 100-1R-1</p>	<p>COMPLETE: RESCOPED WORK PLAN SUBMITTED DECEMBER 1991 - RFOCAS ACTIVITY MILESTONES WILL BE ADDED UNDER M-15-12 UPON WORK PLAN APPROVAL</p>																				

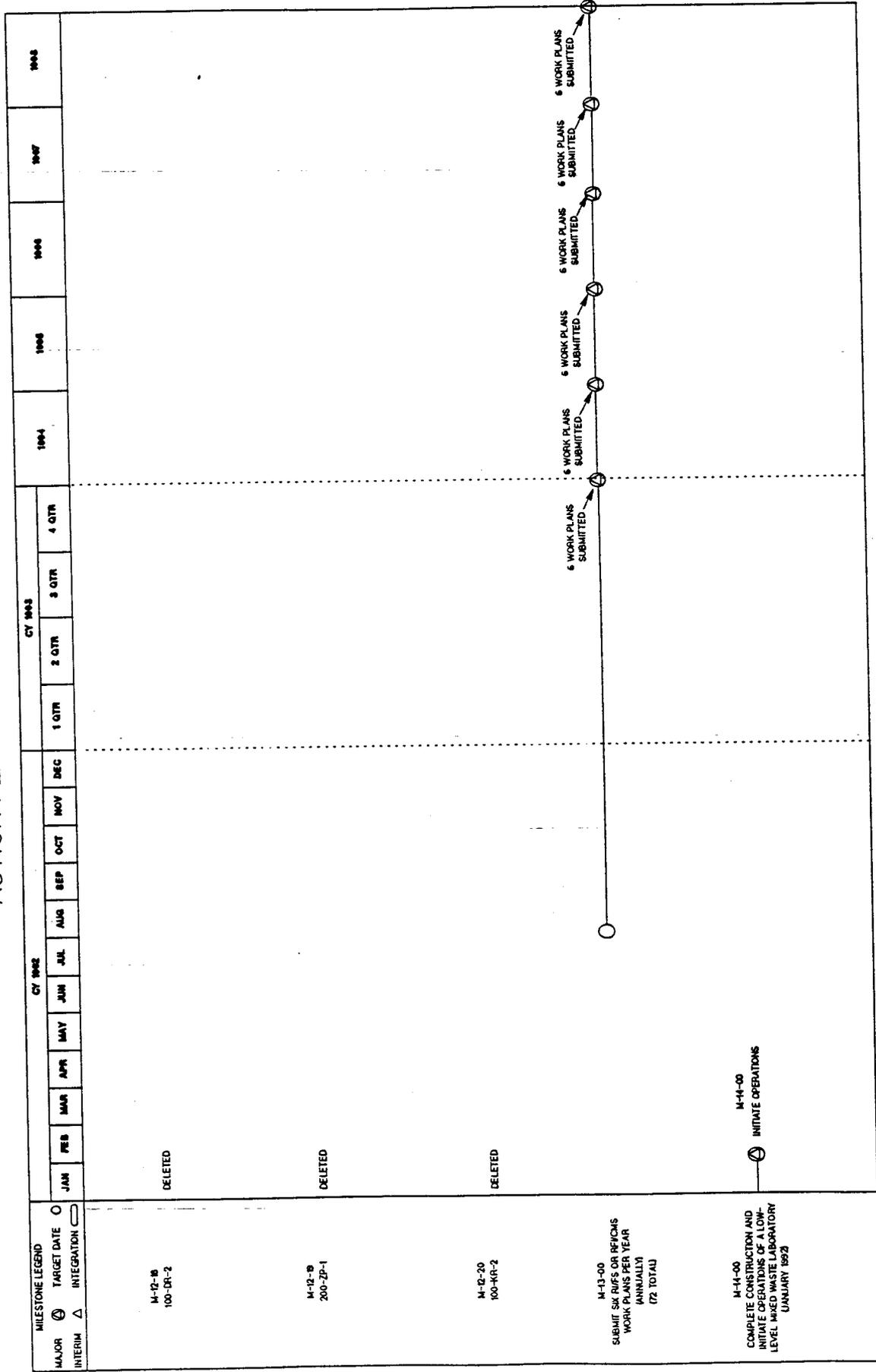
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND	TARGET DATE	CY 1992												CY 1993				1994	1995	1996	1997	1998
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
MAJOR INTERIM	<input type="checkbox"/> <input type="checkbox"/>	<p>M-12-13A 100-FR-1 AND 100-FR-3</p> <p>COMPLETE: WORK PLAN SUBMITTED NOVEMBER 1991 - RIF'S ACTIVITY MILESTONES WILL BE ADDED UNDER M-6-13 UPON WORK PLAN APPROVAL</p>																				
M-12-14 100-IR-2		<p>COMPLETE: RESCORED WORK PLAN SUBMITTED DECEMBER 1991 - RIF'S ACTIVITY MILESTONES WILL BE ADDED UNDER M-6-14 UPON WORK PLAN APPROVAL</p>																				
M-12-16 200-UP-2		<p>M-12-16 SUBMIT WORK PLAN FOR 200-UP-2 OR AN AGREED UPON ALTERNATIVE</p> <p>RIF'S ACTIVITY MILESTONES WILL BE ADDED UNDER M-6-6 UPON WORK PLAN APPROVAL</p>																				
M-12-16 100-BC-2		<p>DELETED - SCOPE INCLUDED IN MAJOR MILESTONE M-13-00</p>																				
M-12-17 200-BP-6		<p>DELETED - SCOPE INCLUDED IN MAJOR MILESTONE M-13-00</p>																				

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

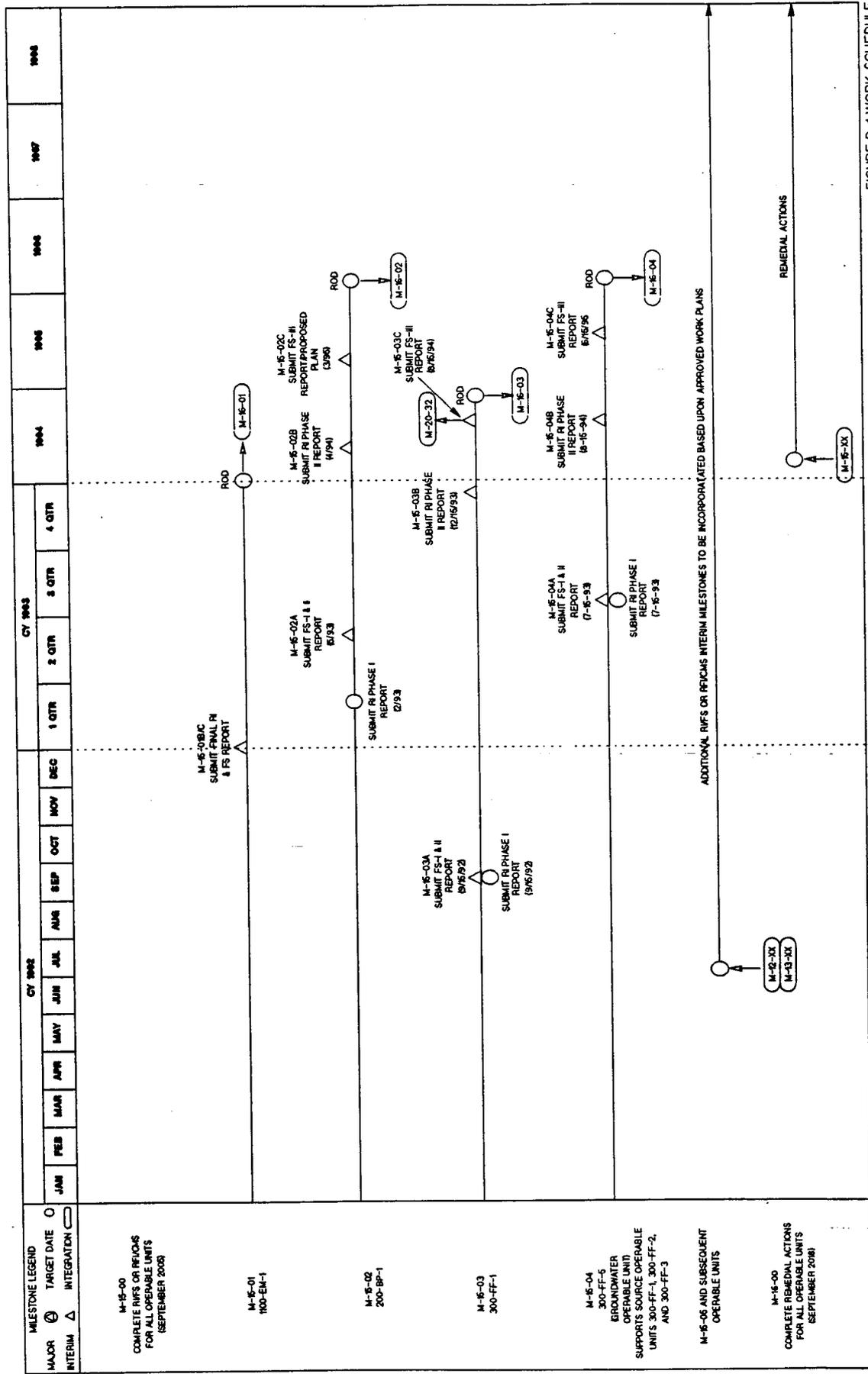


FIGURE D-1 WORK SCHEDULE

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MAJOR MILESTONE TARGET DATE	CY 1992												1993	1994	1995	1996	1997	1998					
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC							1 QTR	2 QTR	3 QTR	4 QTR	
M-17-00 COMPLETE LIQUID EFFLUENT TREATMENT FACILITIES UPGRADES FOR ALL PHASE I STREAMS AND BAT/WART FOR ALL PHASE I LIQUID EFFLUENT STREAMS AT THE HANFORD SITE M-17-00A LUNE 1990 M-17-00B OCTOBER 1990																				M-17-00A COMPLETE LIQUID EFFLUENT TREATMENT FACILITIES UPGRADES FOR ALL PHASE I STREAMS BY 6/90	M-17-00B COMPLETE BAT/WART FOR ALL PHASE I LIQUID EFFLUENT STREAMS AT THE HANFORD SITE BY 10/90		
M-17-01 COMPLETE B POND BY-PASS SYSTEM INSTALLATION																							
M-17-02 COMPLETE PUREX AMMONIA SCRUBBER DISTILLATE TREATMENT SYSTEM																							
M-17-03 COMPLETE PUREX DEMINERALIZER REGENERATION NEUTRALIZATION SYSTEM UPGRADES																							
B PLANT CHEMICAL SEWER																							
M-17-04 CEASE DISCHARGE OF THE B PLANT CHEMICAL SEWER TO THE 216-B-3 POND SYSTEM BY 6/95																							
M-17-05 SELECT 300 AREA PROCESS TRENCH EFFLUENT TREATMENT OPTION AND ESTABLISH SCHEDULE FOR IMPLEMENTING TREATMENT AND CEASING LIQUID DISCHARGES BY 3/90																							
300 AREA PROCESS TRENCHES																							
M-17-06 CEASE ALL DISCHARGES TO 300 AREA PROCESS TRENCHES BY 12/94																							
M-17-06A,B,C,D,E 300 AREA PROCESS TRENCH MANAGEMENT																							

SEE DETAILS BELOW

COMPLETED

DELETED (SEE M-17-14, M-17-20 AND M-17-21)

COMPLETED

M-17-04A - SUBMIT SAMPLING AND ANALYSIS PLAN FOR B PLANT CHEMICAL SEWER TO EPA AND ECOLOGY

M-17-04B - DISCONTINUE THE DISCHARGE OF B PLANT CHEMICAL SEWER TO 216-B-63 DITCH, REROUTE EFFLUENT FLOW TO 216-B POND SYSTEM VIA B PLANT COOLING WATER

M-17-04C - COMPLETE CONSTRUCTION OF B PLANT ANAL UPGRADES PROJECT W-004

M-17-04D - COMPLETE CONSTRUCTION OF B PLANT ENVIRONMENTAL COMPLIANCE UPGRADES, PROJECT W-004

COMPLETED

M-17-06A LIMIT DISCHARGES TO 300 AREA PROCESS TRENCHES TO 400 GPM OR LESS AVERAGED OVER THE CALENDAR MONTH BY 12/94

M-17-06B SUBMIT THE 300 AREA PROCESS SEWER EFFLUENT CHARACTERIZATION REPORT TO EPA AND ECOLOGY BY 3/92

M-17-06C PROVIDE A SHUT-DOWN PLAN TO EPA AND ECOLOGY FOR THE 300 AREA PROCESS TRENCHES BY 4/92

M-17-06D SUBMIT TO EPA AND ECOLOGY THE FINAL REPORT DETAILING THE RESULTS OF THE 300 AREA PROCESS TRENCH EXPEDITED RESPONSE ACTION (D16-6 TRENCHES) BY 7/92

M-17-06E SUBMIT TO EPA AND ECOLOGY THE UPDATED ASSESSMENT OF POTENTIAL ENVIRONMENTAL IMPACTS FROM CONTINUED DISCHARGE TO THE 300 AREA PROCESS TRENCHES AT HANFORD BY 7/92

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND MAJOR TARGET DATE INTERIM INTEGRATION	CY 1992												CY 1993				1994	1995	1996	1997	1998			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR								
N-REACTOR EFFLUENT M-17-5B CEASE DISCHARGE TO THE 026-H LIQUID WASTE DISPOSAL (LWDF) SYSTEM BY 6/95	M-17-5B SUBMIT AN NPDES PERMIT MODIFICATION REQUEST FOR THE REACTOR EFFLUENT TO EPA & ECOLOGY												M-17-5C SUBMIT DEFINITIVE DESIGN FOR PFP LIQUID LOW-LEVEL WASTE SYSTEM MODIFICATION PROJECT B-6004 BY 12/92				M-17-5D IMPLEMENT CLOSED LOOP COOLING FOR 231-2, 234-5Z, AND 236-2 BUILDINGS AND REDUCE DISCHARGE TO THE 216-2-20 CRIB TO LESS THAN OR EQUAL TO 75 GPM BY 1/94				M-17-5E CEASE DISCHARGE TO THE 026-H LIQUID WASTE DISPOSAL (LWDF) SYSTEM BY 6/95			
PFP WASTEWATER M-17-5C CEASE ALL DISCHARGE TO THE 216-2-20 CRIB BY 6/95	M-17-5C SUBMIT A PLAN TO CEASE DISCHARGE OF ALL LIQUID EFFLUENTS TO THE 026-H LWDF TO EPA AND ECOLOGY												M-17-5D LIMIT UO3JU PLANT WASTEWATER EFFLUENT FLOW TO LESS THAN OR EQUAL TO 250 GPM BY 12/92				M-17-5E COMPLETE PFP LIQUID LOW-LEVEL WASTE SYSTEM MODIFICATION PROJECT B-6004 BY 6/94				M-17-5F CEASE DISCHARGE OF UO3JU PLANT WASTEWATER TO THE 216-U-14 DITCH BY 6/95			
UO3JU PLANT WASTEWATER M-17-7 CEASE DISCHARGE OF UO3JU PLANT WASTEWATER TO THE 216-U-14 DITCH BY 6/95	M-17-7B - CEASE THE 216-U-14 DITCH SURFACE CONTAMINATION CONTROL WATER DISCHARGE												M-17-7C - COMPLETE A STUDY WHICH EVALUATES THE NEED FOR AND FEASIBILITY OF REROUTING THE UO3JU PLANT WASTEWATER TO AN ALTERNATE SITE AND SUBMIT TO EPA AND ECOLOGY				M-17-7D CEASE DISCHARGE OF 242-S EVAPORATOR STEAM CONDENSATE TO THE 216-U-14 DITCH BY 6/95							
242-S EVAPORATOR STEAM CONDENSATE M-17-8 CEASE DISCHARGE OF 242-S EVAPORATOR STEAM CONDENSATE TO THE 216-U-14 DITCH BY 6/95	M-17-8B - REPLACE THE AIR SAMPLE PUMP AND ELIMINATE THE SEAL WATER CONTRIBUTION TO THE 242-S EVAPORATOR STEAM CONDENSATE												M-17-8C CEASE DISCHARGE OF 242-S EVAPORATOR STEAM CONDENSATE TO THE 216-U-14 DITCH BY 6/95				M-17-8D CEASE DISCHARGE TO THE 216-U-17 CRIB BY 6/95							
UO3 PLANT PROCESS CONDENSATE M-17-19 CEASE DISCHARGE TO THE 216-U-17 CRIB BY 6/95	M-17-19 IMPLEMENT PUREX PLANT PROCESS CONDENSATE BATAKART BY 6/95												M-17-20 IMPLEMENT PUREX PLANT PROCESS CONDENSATE BATAKART BY 6/95				M-17-21 IMPLEMENT PUREX PLANT AMMONIA SCRUBBER CONDENSATE BATAKART BY 6/95							

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MILESTONE LEGEND MAJOR <input type="checkbox"/> TARGET DATE <input type="checkbox"/> INTERIM <input type="checkbox"/> INTEGRATION <input type="checkbox"/>	CY 1992												CY 1993				1994	1995	1996	1997	1998				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR									
242-A EVAPORATOR PROCESS CONDENSATE M-17-29 IMPLEMENT 242-A EVAPORATOR PROCESS CONDENSATE BATAKHART BY 10/94																	M-17-29 IMPLEMENT 242-A EVAPORATOR PROCESS CONDENSATE BATAKHART BY 10/94								
242-A EVAPORATOR COOLING WATER M-17-30 SUBMIT SAMPLING AND ANALYSIS PLAN FOR 242-A EVAPORATOR COOLING WATER BY 4/92																									
242-A EVAPORATOR STEAM CONDENSATE M-17-31 SUBMIT SAMPLING AND ANALYSIS PLAN FOR 242-A EVAPORATOR STEAM CONDENSATE BY 4/92																									
241-A TANK FARM COOLING WATER M-17-32 COMPLETE PROJECT W-030 "TANK FARM VENTILATION UPGRADE" BY 12/96																									
244-AR VAULT COOLING WATER M-17-33 SUBMIT SAMPLING AND ANALYSIS PLAN FOR 244-AR VAULT COOLING WATER BY 4/92																									
2724-W LAUNDRY WASTEWATER M-17-34 CEASE ALL DISCHARGES TO THE 26-W-LWC CRB BY 9/95																									
2724-W LAUNDRY WASTEWATER M-17-34 CEASE ALL DISCHARGES TO THE 26-W-LWC CRB BY 9/95																									
2724-W LAUNDRY WASTEWATER M-17-34 CEASE ALL DISCHARGES TO THE 26-W-LWC CRB BY 9/95																									

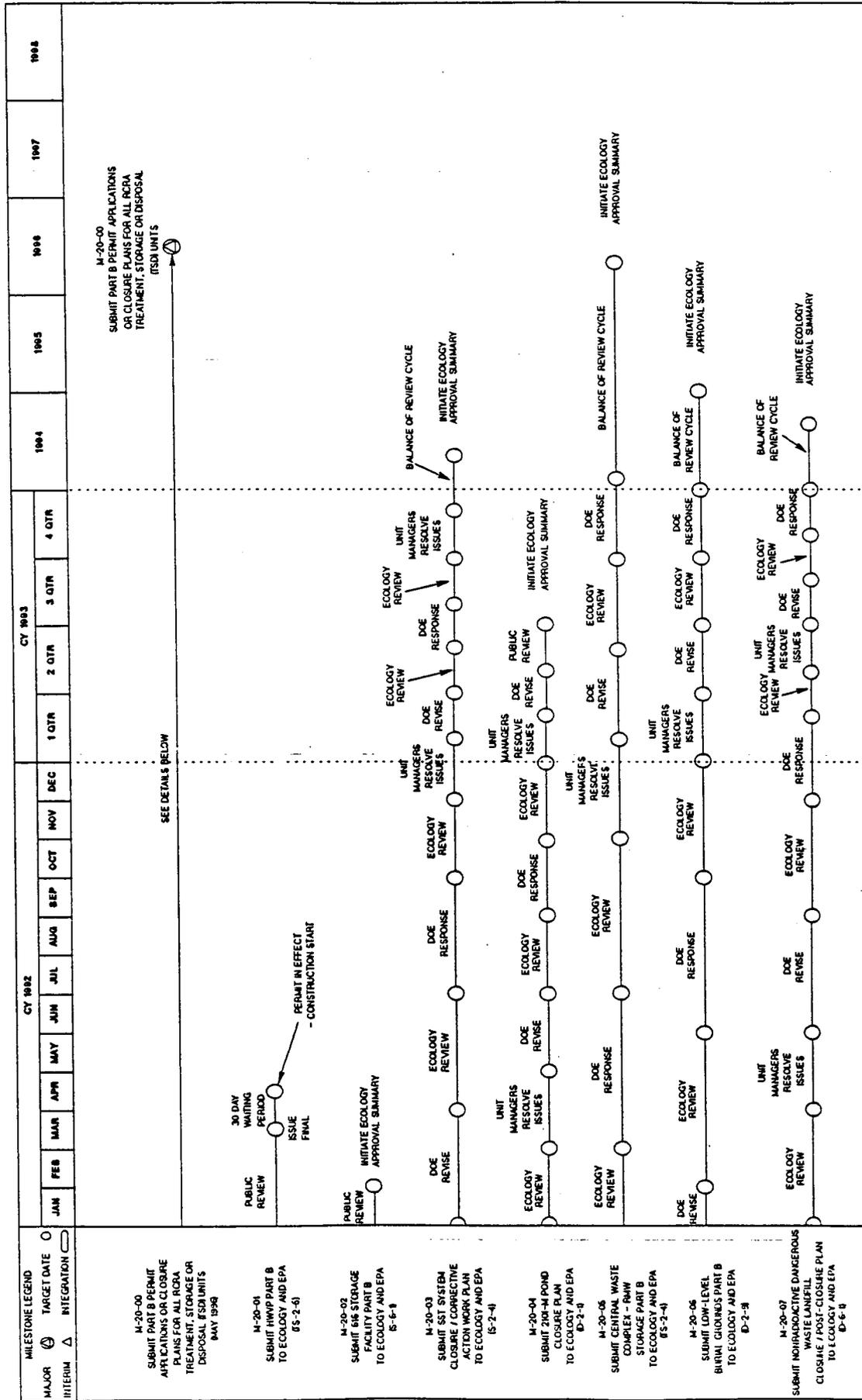
FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MAJOR ITEM	CY 1993												1994	1995	1996	1997	1998
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC					
MILESTONE LEGEND MAJOR TARGET DATE <input type="checkbox"/> ITEM <input type="checkbox"/> INTEGRATION <input type="checkbox"/>																	
DECONTAMINATION LAUNDRY FACILITY M-17-35 CEASE DISCHARGE OF THE DECONTAMINATION LAUNDRY FACILITY EFFLUENT TO THE 216-B-3 POND SYSTEM BY 6/96	COMPLETE DECONTAMINATION LAUNDRY FACILITY (DLF) FACILITY PROJECT B-403 M-17-36A COMPLETE DEFINITIVE DESIGN OF THE DECONTAMINATION LAUNDRY FACILITY (DLF) EFFLUENT TO THE 216-B-3 POND SYSTEM BY 1/93 M-17-35D INITIATE FULL-SCALE HOT OPERATIONS OF DLF WITH DISCHARGE OF BATIMORIT M-17-35C COMPLETE CONSTRUCTION OF THE DLF BY 10/94 M-17-36 CEASE DISCHARGE OF THE DECONTAMINATION LAUNDRY FACILITY EFFLUENT TO THE 216-B-3 POND SYSTEM BY 6/96																
183-D FILTER BACKWASH M-17-36 SUBMIT THE SAMPLING AND ANALYSIS PLAN FOR THE 183-D FILTER BACKWASH BY 4/92	M-17-35B SUBMIT THE DLF CONSTRUCTION TEST PLAN BY 4/93																
284-E POWERPLANT WASTEWATER M-17-37 SUBMIT THE SAMPLING AND ANALYSIS PLAN FOR THE 284-E POWERPLANT WASTEWATER BY 4/92	M-17-37 SUBMIT THE SAMPLING AND ANALYSIS PLAN FOR THE 284-E POWERPLANT WASTEWATER BY 4/92																
284-W POWERPLANT WASTEWATER M-17-38 CEASE ALL DISCHARGES TO THE 284-W POWERPLANT POND BY 6/96	M-17-38 CEASE ALL DISCHARGES TO THE 284-W POWERPLANT POND BY 6/96																
222-S LABORATORY WASTEWATER M-17-39 CEASE DISCHARGES TO THE 216-S-26 CRB BY 6/96	M-17-39 CEASE DISCHARGES TO THE 216-S-26 CRB BY 6/96																
S PLANT WASTEWATER M-17-40 CEASE DISCHARGE TO THE 216-S-10 DITCH BY 10/91	COMPLETE																

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE



FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MAJOR INTERIM	CY 1992												CY 1993				1994	1995	1996	1997	1998
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
M-25-00 PROVIDE ANNUAL REPORTS OF STUDIES EFFORTS THAT ARE IN PROGRESS TO IDENTIFY ALTERNATIVES TO LAND DISPOSAL OF RADIOACTIVE MIXED WASTES	DEVELOP ISSUE REPORT																				
M-26-00 SUBMIT HAZARDOUS LAND DISPOSAL RESTRICTIONS PLAN FOR MIXED WASTE	COMPLETE																				
M-26-01 SUBMIT ANNUAL HAZARDOUS LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH THE LDR PLAN	DEVELOP ISSUE REPORT																				
M-26-02 ESTABLISH INTERIM MILESTONES FOR LDR COMPLIANCE	ESTABLISH MILESTONES																				
M-26-03 CEASE DISCHARGE OF 242-A EVAPORATOR PROCESS CONDENSATE EFFLUENT TO LERF UNITS																					
M-26-04 REMOVE ALL HAZARDOUS WASTE RESIDUES FROM THE 242-A EVAPORATOR LERF UNITS																					
M-27-00 SUBMIT ALL AGGREGATE AREA MANAGEMENT STUDY REPORTS (AMASR) FOR THE 200 AREA TO EPA AND ECOLOGY																					
M-27-01 SUBMIT METHODOLOGY AND FORMAT FOR AMASR TO EPA AND ECOLOGY																					
M-27-02 SUBMIT AMASR FOR U PLANT WASTE MANAGEMENT AREA																					
M-27-03 SUBMIT AMASR FOR Z PLANT WASTE MANAGEMENT AREA																					

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MAJOR MILESTONE LEGEND	CY 1992												CY 1993						
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR	1993	1997	1998
<p>○ TARGET DATE</p> <p>△ INTERIM</p> <p>□ INTEGRATION</p>																			
<p>M-28-02</p> <p>SUBMIT BACKGROUND METHODOLOGY DESCRIPTION DOCUMENT FOR SOILS AND GROUNDWATER</p>	COMPLETE																		
<p>M-28-03</p> <p>SUBMIT SOILS STUDY REPORT ESTABLISHING BACKGROUND VALUES FOR SOIL AT THE HANFORD SITE AND INCLUDE REPORT IN APPENDIX F</p>	<p>△ M-28-03</p> <p>SUBMIT SOILS STUDY REPORT ESTABLISHING BACKGROUND VALUES FOR SOIL AT THE HANFORD SITE AND INCLUDE REPORT IN APPENDIX F</p>																		
<p>M-28-04</p> <p>SUBMIT EVALUATION REPORT ON EXISTING GROUNDWATER DATA ESTABLISHING BACKGROUND VALUES FOR GROUNDWATER AT THE HANFORD SITE AND INCLUDE REPORT IN APPENDIX F</p>	<p>△ M-28-04</p> <p>SUBMIT EVALUATION REPORT ON EXISTING GROUNDWATER DATA ESTABLISHING BACKGROUND VALUES FOR GROUNDWATER AT THE HANFORD SITE AND INCLUDE REPORT IN APPENDIX F</p>																		
<p>M-29-00</p> <p>DEVELOP AND SUBMIT DOCUMENTATION TO EPA AND ECOLOGY DESCRIBING HANFORD RISK ASSESSMENT METHODOLOGY</p>	<p>⊙ M-29-00</p> <p>DEVELOP AND SUBMIT DOCUMENTATION TO EPA AND ECOLOGY DESCRIBING HANFORD RISK ASSESSMENT METHODOLOGY</p>																		
<p>M-29-01</p> <p>IDENTIFY AND SUBMIT DESCRIPTIONS OF CODES AND MODELS TO BE USED IN RISK ASSESSMENT</p>	COMPLETE																		
<p>M-29-02</p> <p>SUBMIT PLAN FOR DEVELOPMENT OF AREA WIDE GROUNDWATER MODELS TO SUPPORT RISK ASSESSMENT AND EVALUATE IMPACTS OF CHANGING GROUNDWATER FLOW FIELDS</p>	COMPLETE																		
<p>M-29-03</p> <p>SUBMIT RISK ASSESSMENT METHODOLOGY DOCUMENT AND INCLUDE DOCUMENT IN APPENDIX F</p>	<p>△ M-29-03</p> <p>SUBMIT RISK ASSESSMENT METHODOLOGY DOCUMENT AND INCLUDE DOCUMENT IN APPENDIX F</p>																		
<p>M-30-00</p> <p>COMPLETE INTEGRATED GENERAL INVESTIGATIONS AND STUDIES FOR RD AREA</p>	<p>⊙ M-30-00</p> <p>COMPLETE INTEGRATED GENERAL INVESTIGATIONS AND STUDIES FOR RD AREA</p>																		

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

ACTION PLAN WORK SCHEDULE

MAJOR MILESTONE LEGEND TARGET DATE INTERIM	CY 1992												CY 1993				1994	1995	1996	1997	1998
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1 QTR	2 QTR	3 QTR	4 QTR					
M-30-01 SUBMIT A REPORT TO EPA & ECOLOGY EVALUATING THE IMPACT TO THE COLUMBIA RIVER FROM CONTAMINATED SPRINGS AND SEEPS	△																				
M-30-02 SUBMIT A PLAN TO EPA & ECOLOGY TO DETERMINE CUMULATIVE HEALTH AND ENVIRONMENTAL IMPACT TO THE COLUMBIA RIVER																					
M-30-03 COMPLETE ALL NONINTRUSIVE FIELD WORK IN OPERABLE UNITS: 100-FR-1, 100-FR-2, 100-FR-3, 100-BC-1, 100-BC-2, 100-BC-3, 100-BC-4, 100-BC-5, 100-NR-1, 100-NR-2, 100-NR-3 AND 100-FR-3																					
M-30-04 SUBMIT A REPORT TO EPA & ECOLOGY EVALUATING THE INTERACTION OF COLUMBIA RIVER AND UNCONFINED AQUIFER FOR AQUIFER HYDRAULIC PARAMETERS																					
M-30-05 INSTALL ALL FIELD INSTRUMENTATION AND INITIATE MONITORING ACTIVITIES NECESSARY TO PERFORM LONG-TERM EVALUATION OF COLUMBIA RIVER AND THE UNCONFINED AQUIFER INTERACTION																					
M-31-00 PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY																					
M-31-01 COMPLETE CONCEPTUAL DESIGN REPORTS FOR UP TO FOUR (4) TANKS.																					
M-31-02 RECOMMEND ADDITIONAL DOUBLE-SHELL TANK MILESTONES FOR 100 AREA																					

**APPENDIX E
KEY INDIVIDUALS**

Hanford Project Manager	U.S. Environmental Protection Agency Region 10	Washington State Department of Ecology	U.S. Department of Energy Richland Operations
	Paul Day Environmental Protection Agency Region 10 712 Swift Blvd. Suite 5 Richland, WA 99352 (509) 376-6623	David Jansen Washington Department of Ecology Nuclear and Mixed Waste Management Program P.O. Box 47600 Olympia, WA 98504 (206) 438-7021	Steve Wisness U.S. Department of Energy Field Office Richland P.O. Box 550 Richland, WA 99352 (509) 376-6798
Community Relations Contact	Bub Loisel Environmental Protection Agency Region 10 HW-117 1200 Sixth Avenue Seattle, WA 98101 (206) 553-6901	Mary Getchell Washington Department of Ecology Nuclear and Mixed Waste Management Program P.O. Box 47600 Olympia, WA 98504 (206) 459-6862	Ken Morgan U.S. Department of Energy Field Office Richland P.O. Box 550 Richland, WA 99352 (509) 376-7162

APPENDIX F

Supporting Technical Plans and Procedures

Document	Status
Strategy for Handling and Disposing of Purgewater at the Hanford Site, Washington	MHC-MR-0039 Approved by DOE, EPA Ecology on August 21, 1990
Data Quality Strategy for Hanford Site Characterization	"Proposed Data Quality Strategy for Hanford Site Characterization," WHC-SD-EN-AP-023, issued Jan. 19, 1991
Environmental Investigation and Site Characterization Manual (contains specific procedures governing Site investigation activities)	CM-7-7 Issued, September 1988
Data Reporting Requirements for the Hanford Site	To be developed
Guidance on Preparation of Laboratory Quality Assurance Plans	Draft issued
Data Validation Guidelines for Contract Laboratory Program Organic Analyses	MHC-CM-5-3 issued August 31, 1990
Data Validation Guidelines for Contract Laboratory Program Inorganic Analyses	MHC-CM-5-3 issued August 31, 1990

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
AND THE
STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

IN THE MATTER OF:

The U.S. Department of Energy,
Richland Operations Office,
Richland, Washington

)
) THIRD AMENDMENT OF
) HANFORD FEDERAL FACILITY
) AGREEMENT AND CONSENT ORDER -
)

Respondent) EPA Docket Number: 1089-03-04-120
) Ecology Docket Number: 89-54

In accordance with Article XXXIX of the Hanford Federal Facility Agreement and Consent Order ("Agreement") the Parties hereto agree to the following amendments to the Agreement:

LIST OF AMENDMENTS TO TRI-PARTY AGREEMENT

Item Number	Location	Change	Action Plan
1.	Section 9.2.1 Title	Add underlined text as noted:	9.2.1 Primary Documents (with exception of Part B permit applications and <u>Closure/Postclosure plans</u>)
2.	Figure 9-1, Footnote	Remove text as noted by <u>strikeout</u> :	* With exception of 60 days for RI/FS work plans and <u>RFI/CMS work plans and closure plans</u>
3.	Figure 9-1, Title	Add underlined text as noted:	Figure 9-1. Review and Comment on Primary Documents. (See Figure 9-2 for Part B <u>Permit Application and Closure/Postclosure Plan Review</u>)

LIST OF AMENDMENTS TO TRI-PARTY AGREEMENT

Item Number	Location	Change
4.	Section 9.2.2, A11	<p>Modify text as noted: (underline indicates text to be added and strikethrough indicates text to be removed)</p> <p><u>9.2.2 Part B Permit Applications and Closure/Postclosure Plans (Operations and Postclosure)</u></p> <p>The process for review of Part B Permit Applications and Closure/Postclosure Plans will be different than for other primary documents due to the size and complex nature of these documents. In addition, Part B Permit Applications do not receive final "approval" from the regulatory agencies. These documents, when complete, are used to form permit conditions. Portions of the applications will be incorporated into the permit along with permit conditions.</p> <p>Figure 9-2 shows the process for review of Part B Permit Applications and Closure/Postclosure Plans. Upon receiving these documents from the DOE, the lead regulatory agency has a period of 90 days to will provide comments as outlined in Figure 9-2 Section 9.2.1 on the first submittal, and 60 days on subsequent submittals. It is understood by the parties that in many cases the lead regulatory agency will extend the comment period for a specified period of time to accommodate the complexity and size of the document.</p> <p>If the Part B permit application or Closure/Postclosure Plan is determined to be incomplete, comments will be transmitted by the lead regulatory agency in the form of an NOD. Upon receiving an NOD, the DOE will</p>

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Item Number Location

Change

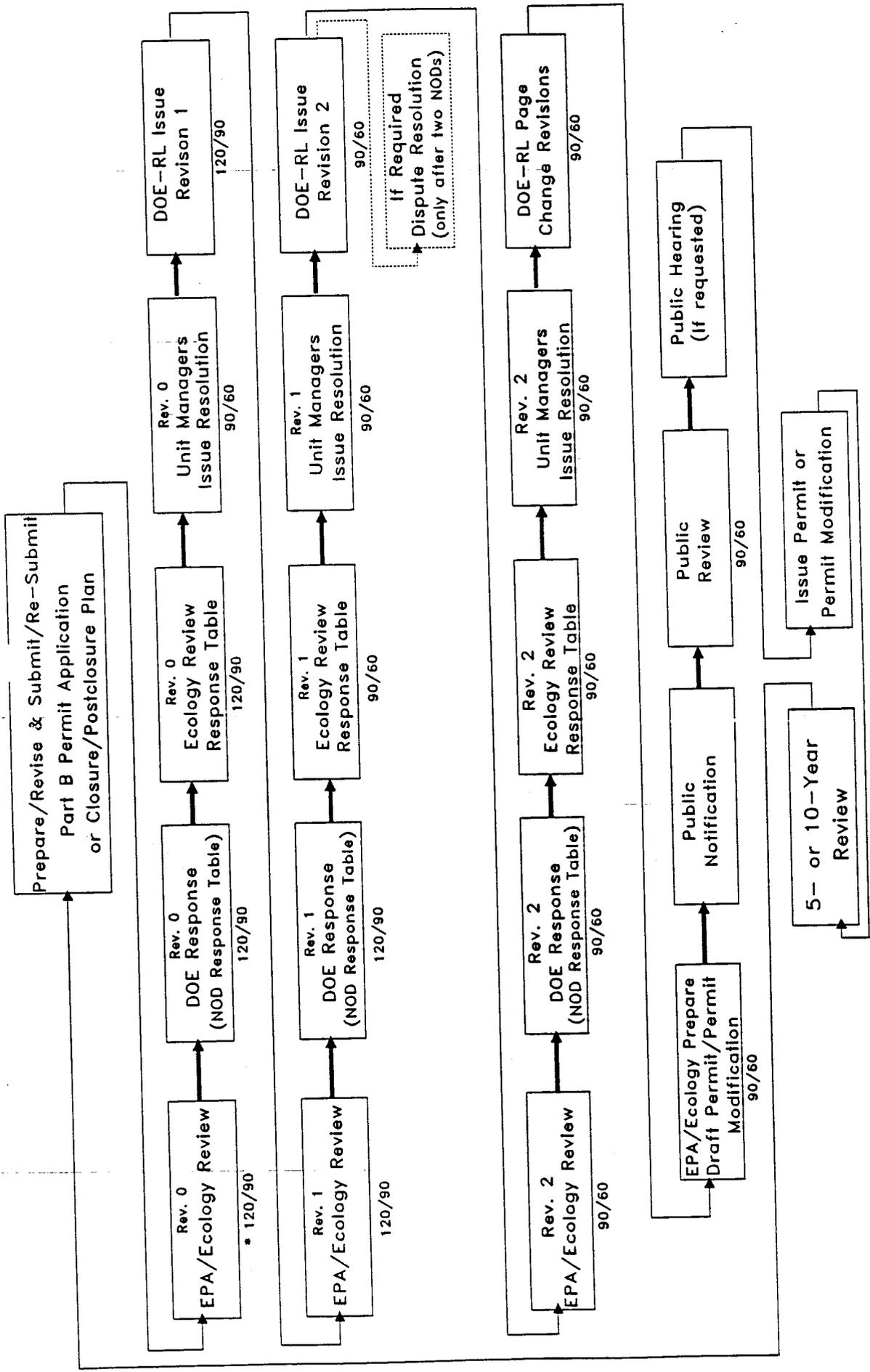
update the application document as necessary within ~~90 days~~ in by following the review/response process to the first NOD, and ~~60 days for subsequent NOD's cycles as outlined in Figure 9-2.~~ With concurrence of the lead regulatory agency, the update may be in the form of either supplemental information to, or a revised portion of, the previously submitted Part B Permit Application or Closure/Postclosure Plan. If the DOE is unable to comply with this timeline, it may request an extension within 30 days of receipt of the NOD. This request will include specific justification for granting an extension, a detailed description of actions to be taken, and the proposed date for resubmittal of the application.

Dispute resolution for NODs cannot be initiated until two NODs have been issued by the lead regulatory agency, unless agreed to by all parties. Once an application or closure plan is determined by the lead regulatory agency to be complete, the agency will begin drafting the permitting document. The permitting actions are also shown in Figure 9-2. The process for development and maintenance of the Hanford Site permit is discussed in Section 6.2

In addition to standard public notification procedures, the public will be informed about proposed permit and closure actions in the "Hanford Newsletter" and at quarterly public meetings. However, it is anticipated that in many cases, comments from the public will result in a public hearing on the draft permit document. All comments on the draft permit document, including those received during the public hearing will be addressed in a

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5.	Figure 9-2	response summary and incorporated in accordance with 173-303-840(7) and (9) WAC. Public hearing opportunities are further discussed in Section 10.7.
		Delete current Figure 9-2 and replace with new Figure 9-2 as displayed on next page of this amendment.



DOE = U.S. Department of Energy
 Ecology = State of Washington Department of Ecology
 EPA = U.S. Environmental Protection Agency
 NOD = Notice of Deficiency

• Permit or Closure/Postclosure Days for Completion

Figure 9-2. Part B Permit Application and Closure/Postclosure Plan Process Flowchart.

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Item Number	Location	Change
6.	Section 9.6, second paragraph, eighth line of text	Reference to section 9.7 is incorrect, 9.6.3 is the correct reference.

IT IS SO AGREED:

Each undersigned representative of a Party certifies that he or she is fully authorized to enter into this Agreement and Action Plan and to legally bind such Party to this Agreement and Action Plan. The amendments shall be effective upon the date on which this amendment agreement is signed by the Parties. Except as amended herein, the existing provisions of the Agreement shall remain in full force and effect.

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

Dana A. Rasmussen
Regional Administrator, Region 10
U.S. Environmental Protection Agency

Date

FOR THE UNITED STATES DEPARTMENT OF ENERGY:

John D. Wagoner
Manager,
U.S. Department of Energy
Richland Field Office

Date

FOR THE WASHINGTON STATE DEPARTMENT OF ECOLOGY:

Chuck Clarke
Director
Department of Ecology

Date

Change Number M-17-91-05	FEDERAL FACILITY AGREEMENT AND CONSENT ORDER CHANGE CONTROL FORM <small>Do not use blue ink. Type, or print using black ink.</small>	Date 1-20-92
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Originator D. E. Kelley	Phone 373-4745
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Class of Change <input checked="" type="checkbox"/> I - Signatories (Section 13.0) <input type="checkbox"/> II - Project Manager <input type="checkbox"/> III - Unit Manager

Change Title RENEGOTIATION OF M-17-00 LIQUID EFFLUENT MILESTONES
--

Description/Justification of Change <p>This change package will modify the existing Hanford Federal Facility Agreement and Consent Order (Agreement) major Milestone M-17-00 and the interim milestones M-17-02, M-17-04, M-17-08, M-17-09, M-17-10, M-17-11, M-17-12, M-17-13, M-20-49, and M-20-50. These changes are necessary to:</p> <ul style="list-style-type: none"> * Incorporate new direction provided by Environmental Protection Agency (EPA) and Washington Department of Ecology (Ecology) comments on the "Liquid Effluent Study". * Incorporate milestones and commitment language for the 14 Phase II liquid effluent streams, which were not included in the original Agreement language. <p style="text-align: center;">See continuation on Page 2.</p>
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Impact of Change <p>This change will provide a more inclusive set of milestones and a greater level of regulatory control and oversight of liquid effluents at the Hanford Site. It should be noted that this change does not affect interim milestones M-17-06A through M-17-06E.</p>

Affected Documents <p>Hanford Federal Facility Agreement and Consent Order Action Plan Table D-3 and Figure D-1. Tri-Party Agreement Milestone M-20 will be modified; tables D4 and D5 will be deleted.</p>
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Approvals	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE	Date _____
EPA	Date _____
Ecology	Date _____

Description/Justification of Change (continued)

- * Re-assign previous interim milestone commitments found in Milestones M-17-11 and M-17-12 on an effluent stream specific basis to facilitate tracking and compliance.
- * Incorporate interim milestones for major liquid effluent management and treatment projects required to meet the major milestone. These interim milestones include provision for EPA and Ecology review of design documentation, initiation of full scale hot operations of the facilities, and the submittal of RCRA permit applications.
- * Replace unenforceable target dates with enforceable interim milestones.

The need to incorporate such changes was determined soon after comments were received from Ecology and EPA on the Liquid Effluent Study. The modification of the M-17-00 milestone language occurred in a two step negotiating process.

Initial negotiations were completed in May, 1991 and incorporated into the Agreement upon sign-off of a publically-reviewed amendment on September 9, 1991. The elements of this amendment included a relative prioritization of the 33 major streams, development of interim operating restrictions for the high priority streams and receiving sites, development of Sampling and Analysis Plans, the development of an impact assessment methodology, and a commitment to develop milestones for the remaining streams and effluent treatment/disposal projects by September, 1991. These commitments are found interim milestones M-17-11, M-17-12, and M-17-13. This change package reassigns the scope of these commitments to other interim milestones within M-17 which have been arranged on a stream specific basis to facilitate tracking and compliance.

Final negotiations were completed in October, 1991 and are summarized by the proposed milestones and commitment language in this Agreement change package. These negotiations resulted in the development of 2 major milestones and 86 interim milestones (which include those previously negotiated in May). It should be noted that these are interim milestones which are enforceable via the provisions of the Agreement, unenforceable M-17 target milestones are eliminated by this change. Due to the number of interim milestones supporting M-17, it is not anticipated that target milestones will be established for this milestone.

The proposed milestones which are included in this change package can be summarized as follows:

- * Interim operating restrictions- These are included for those streams or disposal sites which were identified as being of high priority from a standpoint of potential environmental impact. These specifically include flow restrictions and reduction values, expressed in terms of gallons per minute, dates by which discharges to selected disposal sites must be discontinued, and any special studies which were determined to be necessary (such as evaluations of the need for accelerated treatment\filtration of select streams).

Description/Justification of Change (continued)

- * Sampling and analysis plans- These plans were negotiated to provide the necessary documentation to support the collection and analysis of effluent samples and to support the "representative nature" of such samples. Sampling and analysis plan submittal dates were developed for those effluent streams which will continue to be discharged. These plans will be submitted to the EPA and Ecology for approval.
- * Cease discharge dates- The proposed interim milestones include cease discharge dates for 22 soil column disposal sites.
- * Major liquid effluent treatment or management projects- These interim milestones will provide EPA and Ecology with check points to assure that these projects are making timely progress to support the M-17-00 completion date and the proposed date for the initiation of hot operations of these facilities.

Interim milestone M-17-02, "Complete PUREX ammonia scrubber distillate treatment system by January, 1995", is superseded by interim milestones M-17-14, M-17-14A, M-17-14B, M-17-14C, M-17-14D, M-20-49, and M-20-50 of this change package. The treatment of this effluent stream will be accomplished by the 242-A Evaporator/PUREX Plant Condensate Treatment Facility (i.e., Project C-018H), which will initiate full scale hot operations by October 1994. Therefore, this change package represents a 3 month acceleration of treatment capacity for this effluent stream.

The change package is the result of intensive negotiations between the Department of Energy, Richland Operations Office (RL) and Headquarters (HQ), Washington State Department of Ecology, and the Environmental Protection Agency, Hanford Office that occurred from July, 1991 to October, 1991. These negotiations have involved contributions from Ecology, EPA, DOE-RL and DOE-HQ, Unit Managers, Project Managers, and the Agreement signatories from all three agencies. The wording and timing of the interim and co-major milestones in this Change Package have been agreed to by the three agencies.

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M-17-00A June, 1995

Complete liquid effluent treatment facilities/upgrades for all Phase I streams.

Hanford currently has 19 Phase I liquid effluent streams being discharged to cribs, ponds, or ditches. Phase I streams are defined in the Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site, September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/remedial actions. Liquid effluent streams are classified as Phase I streams based upon radionuclide/chemical content, regulatory requirements relative to the waste disposal unit, chemical spill potential, and waste disposal unit life expectancy. Each of the Phase I effluent streams shall be either treated or eliminated, as defined in the above referenced report.

Interim milestones for Phase I Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge.

Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules.

M-17-00B October 1997

Complete implementation of Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) for all Phase II liquid effluent streams at the Hanford Site.

Hanford's 14 Phase II liquid effluent streams are discharged to cribs, ponds, ditches, or routed to storage facilities. Phase II streams are defined in the Annual Status Report of the Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site, September 1988. Some of the cribs, ponds, or ditches are RCRA waste disposal units. These, along with others, are located in areas requiring inactive site investigations/remedial actions.

All Phase II effluent streams, except those which have been eliminated (e.g., the 209-E Reflector Water and 163-N Demineralizer Liquid Effluent), are managed through a sequence of

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interim milestones. Interim milestones for Phase II Streams include the development and implementation of an impact assessment methodology, sampling and analysis plans, treatment system design and construction commitments, interim flow restrictions and dates for ceasing discharge.

Specific interim/target milestone dates for each stream and any associated treatment or disposal facilities are included in the Appendix D work schedules.

The October 1997 completion date for Milestone M-17-00B shall remain unchanged unless all parties agree that a change is necessary in accordance with Article XL of the Tri-Party Agreement. The parties recognize that the milestone may be revised to accelerate or delay implementation of BAT/AKART based on the results of the BAT/AKART evaluations for each of the nine Phase II liquid effluent streams included in Milestone M-17-00B. Negotiations on the schedule for implementation of BAT/AKART at each of the Phase II liquid effluent streams shall be finalized by December 1992. Such negotiations shall be based on the BAT/AKART evaluations, the complexity of the required treatment and any other technology necessary to meet effluent guidelines and permitting requirements set forth by Ecology and EPA. DOE will assure Ecology and EPA of meaningful and fully funded participation in the BAT/AKART determination for each of the following Phase II liquid effluents:

- B-Plant Cooling Water
- AY/AZ Tank Farm Steam Condensate
- 242-A Evaporator Cooling Water
- 242-A Evaporator Steam Condensate
- 241-A Tank Farm Cooling Water
- 244-AR Vault Cooling Water
- 183-D Filter Backwash
- 284-E Power Plant Wastewater
- 400 Area Secondary Cooling Water

[M-17-02 January 1995 (deleted by this change package)

Complete PUREX ammonia scrubber distillate treatment system.]

B Plant Chemical Sewer

M-17-04 June 1995

Cease discharge of the B Plant Chemical Sewer to the 216-B-3 Pond system.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

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M-17-04A January 1992

Submit the Sampling and Analysis Plan for the B Plant Chemical Sewer to the EPA and Ecology as a primary document.

M-17-04B February 1992

Discontinue the discharge of the B Plant Chemical Sewer to the 216-B-63 Ditch. Reroute this effluent to the 216-B-3 Pond system via the B Plant Cooling Water.

M-17-04C July 1992

Complete construction of 'B Plant Aqueous Make-up Unit (AMU) Area Upgrades' (Project W-004). No chemical inventory will be stored in B Plant AMU tanks until project completion. The chemical addition lines to these tanks will be blanked off, effective September 1991, and will remain so until initiation of acceptance testing.

M-17-04D July 1992

Complete construction of 'B Plant Environmental Compliance Upgrades' (Project W-010H).

200 Area Treated Effluent Disposal Facility (Project W-049H)

M-17-08 June 1995

Initiate full scale hot operations for '200 Area Treated Effluent Disposal Facility' (Project W-049H), with permitted disposal of effluent to either the soil column or surface water.

M-17-08A February 1992

Submit '200 Area Treated Effluent Disposal Facility' (Project W-049H) design-construction schedule to the EPA and Ecology as a primary document.

M-17-08B June 1995

Implement BAT/AKART at the generating facilities which will discharge to '200 Area Treated Effluent Disposal Facility' (Project W-049H). Those effluents included in the project scope include:

- * Plutonium Finishing Plant Wastewater
- * 242-S Evaporator Steam Condensate
- * 2101-M Laboratory Wastewater
- * 284-W Powerplant Wastewater
- * T Plant Laboratory Wastewater

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- * T Plant Wastewater
- * 222-S Laboratory Wastewater
- * PUREX Chemical Sewer
 - PUREX Steam Condensate
 - PUREX Cooling Water
- * U03/U Plant Wastewater
- * U03 Plant Process Condensate
- * B Plant Steam Condensate
- * B Plant Process Condensate
- * B Plant Chemical Sewer
- * 200E Laundry (New Stream)

300 Area Treated Effluent Disposal Facility (Project L-045H)

M-17-09 December 1994

Initiate full scale hot operations of '300 Area Treated Effluent Disposal Facility' (Project L-045H), with permitted disposal of treated effluent to surface water.

M-17-09A July 1993

Complete definitive design of '300 Area Treated Effluent Disposal Facility' (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document.

Cease Discharge to Hazardous Waste Land Disposal Units

M-17-10 June 1995

Cease all liquid discharges to hazardous waste land disposal units unless such units have been clean closed in accordance with RCRA.

Interim Operating Restrictions

[M-17-11 Date as specified in Table D-5 (action re-assigned by this change package, table deleted)

Complete Actions specified in Appendix D, Table D-5]

Sample and Analysis Plans

[M-17-12 Date as specified in Table D-4 (action re-assigned by this change package, table deleted)

Complete Actions specified in Appendix D, Table D-4]

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Impact Assessments

M-17-13 October 1991

Submit methodology for assessing impact of liquid discharge on groundwater at disposal sites to EPA and Ecology as a primary document.

M-17-13A 30 days after approval notification by EPA and Ecology

Submit a schedule, as a primary document, for implementation of the impact assessment methodology, including but not limited to sites listed below. An assessment will not be required if all disposal to the receiving site has been ceased.

- * 1325-N Liquid Waste Disposal Facility
- * 216-Z-20 Crib
- * 216-U-14 Ditch
- * 216-U-17 Crib
- * 216-B-3 Pond system
- * 216-S-26 Crib
- * 216-T-4-2 Ditch
- * 216-T-1 Ditch
- * 284W Powerhouse Pond
- * 2101-M Pond
- * 216-W-LWC Crib
- * D Pond
- * 216-B-63 Ditch
- * 400 Area Pond

242-A Evaporator/PUREX Plant Condensate Treatment Facility (Project C-018H)

M-17-14 October 1994

Initiate full scale hot operations of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H), with permitted discharge of treated effluent to the soil column.

M-17-14A February 1992

Submit the Architect/Engineering firm design-construction schedule for '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) to the EPA and Ecology.

M-17-14B June 1992

Initiate pilot plant testing for '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) after the effective date of the RD & D Permit. This testing will incorporate the use of actual evaporator process condensate as it is available.

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- M-17-14C August 1993
- Submit Federal Delisting petition for treated effluent from '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) in accordance with 40 CFR 260.22 to the EPA.
- M-17-14D June 1994
- Initiate Operational Test Procedures for the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H) using simulants and/or actual LERF-stored wastes, with recycle to the LERF basins.

N Reactor Effluent

- M-17-15 June 1995
- Cease discharge to the 1325-N Liquid Waste Disposal Facility (LWDF) system.
- M-17-15A September 1991
- Limit discharges to the LWDF to less than or equal to 2 gallons per minute, averaged over the calendar month. Discharge flow rate shall be determined by measuring the sumps before and after pumping or through monitoring at the discharge to the 1325-N LWDF.
- M-17-15B January 1992
- Submit the N Reactor effluent BAT/AKART evaluation to the EPA and Ecology.
- M-17-15C January 1992
- Submit a plan to cease discharge of all liquid effluents to the 1325-N LWDF to EPA and Ecology. This plan shall be based on the implementation of BAT/AKART.
- M-17-15D June 1992
- Submit to EPA and Ecology an NPDES permit modification request for the N Reactor effluent.

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Plutonium Finishing Plant Wastewater

M-17-16 June 1995

Cease all discharges to the 216-Z-20 Crib.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-16A September 1991

Limit discharge of the Plutonium Finishing Plant Wastewater to the 216-Z-20 Crib to less than or equal to 160 gallons per minute, averaged over the calendar month.

M-17-16B December 1991

Install a flume for the Plutonium Finishing Plant Wastewater for the purposes of flow rate measurement. Thereafter the flow rate shall be measured by the flume and automatically recorded on a strip chart recorder.

M-17-16C December 1992

Complete definitive design of 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H) and submit design documentation to the EPA and Ecology as a primary document.

M-17-16D January 1994

Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by '291-Z Closed Loop Cooling' (Project C-040) and 'Plutonium Finishing Plant Liquid Low-Level Waste System Modification' (Project B-680H). Reduce the discharge to the 216-Z-20 Crib to less than or equal to 75 gallons per minute, averaged over the calendar month.

M-17-16E May 1994

Complete 'Plutonium Finishing Plant Liquid Low Level Waste System Modification' (Project B-680H).

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U03/U Plant Wastewater

M-17-17 June 1995

Cease discharge of the U03/U Plant Wastewater to the 216-U-14 Ditch.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See Milestone M-17-08.

M-17-17A September 1991

Except as specified below, limit discharge of the wastewater to the ditch to less than or equal to 450 gallons per minute, averaged over the calendar month. During the Stabilization run, limit the discharge of wastewater to the ditch to less than or equal to 750 gallons per minute, averaged over the calendar month. Measurement of the discharge flow rate shall be by an instantaneous flow rate recorder system with data recording by a strip chart.

Note: The Stabilization Run of the U03/U Plant refers to the operation of the Plant in the Calcination Mode as described in the U03/U Plant Wastewater Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage.

M-17-17B February 1992

Cease discharge of the 216-U-14 Ditch surface contamination control water. Limit the 216-U-14 Ditch surface contamination control water point source discharge at less than or equal to 300 gallons per minute, as estimated through engineering calculations, until the completion of the Stabilization Run. At the completion of the Stabilization Run, cease the existing contamination control water point source discharge and initiate construction of the engineered surface contamination control solution. The use of clean water during construction is allowed for dust control. This dust control water shall not exceed 300 gpm and must be discontinued by February 1992.

M-17-17C May 1992

Complete a study which evaluates the need for and feasibility of rerouting the U03/U Plant Wastewater to an alternative site and submit it to the EPA and Ecology.

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M-17-17D December 1992

Limit U03/U Plant Wastewater effluent flow to less than or equal to 250 gallons per minute, averaged over the calendar month.

242-S Evaporator Steam Condensate

M-17-18 June 1995

Cease discharge of the 242-S Evaporator Steam Condensate to the 216-U-14 Ditch.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-18A September 1991

Limit the discharge of steam condensate to the ditch to less than or equal to 50 gallons per minute. This flow rate is based on the maximum design flow.

M-17-18B September 1992

Replace the air sample pump at the 242-S Evaporator and eliminate the seal water contribution to the 242-S Evaporator Steam Condensate.

U03 Plant Process Condensate

M-17-19 June 1995

Cease discharge to the 216-U-17 Crib.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-19A September 1991

Limit the discharge of the U03 Plant Process Condensate to the 216-U-17 Crib to less than or equal to 10 gallons per minute, averaged over the calendar month. Operate and test the efficiency of the Fibermist Eliminator throughout the duration of the U03/U Plant Stabilization Run.

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Discharge of the UO3 Process Condensate shall be further limited after the Stabilization Run to less than or equal to 2 gallons per minute, averaged over the calendar month. Discharge flow rate shall be calculated based on a batch counter.

Note: The Stabilization Run of the UO3/U Plant refers to the operation of the Plant in the Calcination Mode as described in the UO3 Plant Process Condensate Stream Specific Report. The Stabilization Run will occur over a short period of time and is necessary to convert Plant inventory to a more stable form for storage.

PUREX Plant Process Condensate

M-17-20 June 1995

Implement BAT/AKART for the PUREX Plant Process Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14.

M-17-20A September 1991

Cease all discharge to the 216-A-45 Crib.

PUREX Plant Ammonia Scrubber Condensate

M-17-21 June 1995

Implement BAT/AKART for the PUREX Plant Ammonia Scrubber Condensate. No soil column disposal of this effluent will occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14.

M-17-21A September 1991

Cease all discharge to the 216-A-36B Crib.

PUREX Plant Steam Condensate

M-17-22 June 1995

Cease discharge of the PUREX Plant Steam Condensate to the 216-B-3 Pond system.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

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M-17-22A June 1992

Discontinue discharge of the PUREX Plant Steam Condensate to the 216-A-30 and 216-A-37-2 Cribs. Reroute effluent flow to the 216-B-3 Pond system via the PUREX Chemical Sewer. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-30 and 216-A-37-2 Cribs may resume if supported by the environmental impact assessment agreed to by EPA and Ecology. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

PUREX Plant Cooling Water

M-17-23 June 1995

Cease discharge of the PUREX Plant Cooling Water to the 216-B-3 Pond system.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-23A June 1992

Reroute the PUREX Plant Cooling Water effluent to the 216-B-3 Pond system via the PUREX Chemical Sewer. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

PUREX Plant Chemical Sewer

M-17-24 June 1995

Cease discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-24A June 1992

Complete PUREX reconfiguration and source control to minimize volume and reroute the remaining PUREX Cooling Water and Steam Condensate to the 216-B-3 Pond system via the PUREX Chemical

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Sewer. Limit the discharge of the PUREX Plant Chemical Sewer to the 216-B-3 Pond system to less than or equal to 600 gallons per minute, averaged over the calendar month. Measurement of the discharge flow volume shall be by a combination of magnetic and pneumatic flowmeters with data recording by a strip chart recorder. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

B Plant Steam Condensate

M-17-25 September 1991

Cease all discharge to the 216-B-55 Crib. There shall be no further soil column discharge of B Plant Steam Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-55 Crib may resume if supported by the environmental assessment agreed to by EPA and Ecology.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

B Plant Process Condensate

M-17-26 September 1991

Cease discharge to the 216-B-62 Crib. There shall be no further soil column discharge of B Plant Process Condensate until BAT/AKART is implemented; until that time, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-B-62 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

B Plant Cooling Water

M-17-27 April 1992

Submit the Sampling and Analysis Plan for the B Plant Cooling Water to the EPA and Ecology as a primary document.

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AY/AZ Tank Farm Steam Condensate

M-17-28 September 1991

Cease discharge to the 216-A-08 Crib. There shall be no further soil column discharge of this effluent until BAT/AKART is implemented; in the interim, the effluent will be routed to double-shell tanks. Following implementation of BAT/AKART and approval of a Sampling and Analysis Plan, discharge to the 216-A-08 Crib may resume if supported by the environmental impact assessment agreed to by EPA and Ecology.

242-A Evaporator Process Condensate

M-17-29 October 1994

Implement BAT/AKART for the 242-A Evaporator Process Condensate.

M-17-29A September 1991

Cease all discharges to the 216-A-37-1 Crib. No soil column disposal of this effluent shall occur until BAT/AKART is implemented as part of '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H). See Milestone M-17-14. Upon restart of the 242-A Evaporator in Fiscal Year 1992, process condensate will be routed to the LERF basins for storage and eventual processing via the '242-A Evaporator/PUREX Plant Condensate Treatment Facility' (Project C-018H).

242-A Evaporator Cooling Water

M-17-30 April 1992

Submit the Sampling and Analysis Plan for the 242-A Evaporator Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

242-A Evaporator Steam Condensate

M-17-31 April 1992

Submit the Sampling and Analysis Plan for the 242-A Evaporator Steam Condensate to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

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241-A Tank Farm Cooling Water

M-17-32 December 1996

Complete 'Tank Farm Ventilation Upgrade' (Project W-030).

M-17-32A April 1992

Submit the Sampling and Analysis Plan for the 241-A Tank Farm Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

244-AR Vault Cooling Water

M-17-33 April 1992

Submit the Sampling and Analysis Plan for the 244-AR Vault Cooling Water to the EPA and Ecology as a primary document. Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

2724-W Laundry Wastewater

M-17-34 January 1995

Cease all discharges to the 216-W-LWC Crib.

M-17-34A January 1992

Submit the Sampling and Analysis Plan for the 2724-W Laundry Wastewater to the EPA and Ecology as a primary document.

M-17-34B January 1992

Complete construction of Laundry Effluent 2724-W Wastewater treatment project (B-697).

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Decontamination Laundry Facility (Project B-503)

M-17-35 June 1995

Cease discharge of the Decontamination Laundry Facility liquid effluent to the 216-B-3 Pond system.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-35A September 1992

Complete definitive design of 'Decontamination Laundry Facility' (Project B-503) and submit design documentation to the EPA and Ecology as a primary document.

M-17-35B April 1993

Submit the construction test plan for 'Decontamination Laundry Facility' (Project B-503) to the EPA and Ecology as a primary document.

M-17-35C October 1994

Complete construction of 'Decontamination Laundry Facility' (Project B-503).

M-17-35D January 1995

Initiate full-scale hot operations of the Decontamination Laundry Facility with discharge of BAT/AKART effluent to the 216-B-3 Pond system.

183-D Filter Backwash

M-17-36 April 1992

Submit the Sampling and Analysis Plan for the 183-D Filter Backwash to the EPA and Ecology as a primary document.

284-E Powerplant Wastewater

M-17-37 April 1992

Submit the Sampling and Analysis Plan for the 284-E Powerplant Wastewater to the EPA and Ecology as a primary document.

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Effective September 1991, discharge to the 216-B-3 Pond System is allowed, and may continue provided such discharge is consistent with the closure schedule and strategy in any Ecology approved 216-B-3 Pond System Closure Plan.

284-W Powerplant Wastewater

M-17-38 June 1995

Cease all discharges to the 284-W Powerplant Pond.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-38A April 1992

Submit the Sampling and Analysis Plan for the 284-W Powerplant Wastewater to the EPA and Ecology as a primary document.

222-S Laboratory Wastewater

M-17-39 June 1995

Cease all discharges to the 216-S-26 Crib.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-39A January 1992

Submit the Sampling and Analysis Plan for the 222-S Laboratory Wastewater to the EPA and Ecology as a primary document.

S Plant Wastewater

M-17-40 October 1991

Cease all discharges to the 216-S-10 Ditch.

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T Plant Wastewater

M-17-41 June 1995

Cease all discharge to the 216-T-4-2 Ditch.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-41A January 1992

Submit the Sampling and Analysis Plan for the T Plant Wastewater to the EPA and Ecology as a primary document.

T Plant Laboratory Wastewater

M-17-42 June 1995

Cease all discharges to the 216-T-1 Ditch.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-42A April 1992

Submit the Sampling and Analysis Plan for the T Plant Laboratory Wastewater to the EPA and Ecology as a primary document.

2101-M Laboratory Wastewater

M-17-43 June 1995

Cease all discharges to the 2101-M Pond.

Note: This effluent is contained within the scope of '200 Area Treated Effluent Disposal Facility' (Project W-049H). See milestone M-17-08.

M-17-43A January 1992

Eliminate effluent contributions to the 2101-M Laboratory Wastewater from 2 of 9 HVAC coolers serving the 2101-M Laboratory.

M-17-43B January 1992

Submit the Sampling and Analysis Plan for the 2101-M Laboratory Wastewater to the EPA and Ecology as a primary document.

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400 Area Secondary Cooling Water

M-17-44 April 1992

Submit the Sampling and Analysis Plan for the 400 Area Secondary Cooling Water to the EPA and Ecology as a primary document.

Related TPA interim milestones for submission of RCRA permits (i.e., M-20) to be included in this change package:

M-20-49 October 1991

Submit RCRA Research, Development and Demonstration (RD & D) permit application for the 242-A Evaporator/PUREX Plant Condensate Treatment Facility (Project C-018H) pilot plant testing in accordance with 40 CFR 270.65.

M-20-50 August 1993

Submit complete RCRA Part B permit application for the 242-A Evaporator/PUREX Plant Condensate Treatment Facility (Project C-018H) to Ecology for approval, which includes 80% design detail and available pilot plant test results, to Ecology as a primary document.