

Current as of August 25, 2008

**APPENDIX D**

**WORK SCHEDULE**

Listing of Currently Identified Interim and Major Milestones and  
Target Dates

NOTES:

Major Milestones are indicated by a -00 suffix (example, M-21-00). Interim Milestones are indicated by a suffix greater than zero (example, M-22-02). A target date is indicated by a "T" (example, M-21-02-T01). See Section 2.0 of this Action Plan for more details.

Milestones and target dates which are completed, or have been deleted by an approved Tri-Party Agreement change request, are not displayed in Appendix D and have been archived.

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-015-00	COMPLETE THE RI/FS (OR RFI/CMS) PROCESS FOR ALL OPERABLE UNITS. IN INSTANCES WHERE RCRA AUTHORITY REQUIRES INVESTIGATION OF PAST PRACTICE UNITS, ECOLOGY AGREES, PURSUANT TO ECOLOGY'S DANGEROUS WASTE REGULATIONS, THAT DOE MAY SATISFY THE REQUIREMENTS FOR AN RFI/CMS REPORT BY SUBMITTING AN RI/FS REPORT.	12/31/2011
M-015-00C LEAD AGENCY: DUAL	COMPLETE ALL 200 AREA NON-TANK FARM OPERABLE UNIT SITE INVESTIGATIONS UNDER APPROVED WORK PLAN SCHEDULES THROUGH SUBMITTAL OF FEASIBILITY STUDY REPORTS AND A RECOMMENDED REMEDY(IES). IN INSTANCES WHERE RCRA AUTHORITY REQUIRES INVESTIGATION OF PAST PRACTICE UNITS, ECOLOGY AGREES, PURSUANT TO ECOLOGY'S DANGEROUS WASTE REGULATIONS, THAT DOE MAY SATISFY THE REQUIREMENTS FOR AN RFI/CMS REPORT BY SUBMITTING AN RI/FS REPORT. THE RECOMMENDED REMEDY(IES) WILL BE SUFFICIENTLY COMPREHENSIVE TO SATISFY THE TECHNICAL REQUIREMENTS OF RCRA, HAZARDOUS WASTE MANAGEMENT ACT (HWMA), AND CERCLA STATUTORY AUTHORITIES AND RESPECTIVE REGULATIONS WITH RESPECT TO ALL HAZARDOUS SUBSTANCES, PURSUANT TO THE HFFACO ARTICLE IV PARAGRAPH 17 AND ACTION PLAN SECTION 5.4.	12/31/2011
M-015-17A	SUBMIT A 200-UP-1 OU COMBINED REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT AS WELL AS A PROPOSED PLAN TO ECOLOGY.	11/30/2010
M-015-21A	SUBMIT 200-BP-5 OU FEASIBILITY STUDY AND PROPOSED PLAN TO EPA.	10/31/2010
M-015-25C	SUBMIT A REMEDIAL INVESTIGATION (RI) PHASE II FOR THE 200-PO-1 GROUNDWATER OPERERABLE UNIT.	12/30/2009
M-015-38B	SUBMIT A REVISED FEASIBILITY STUDY REPORT AND REVISED PROPOSED PLAN FOR 200-CW-1 TO ECOLOGY.	11/30/2010
M-015-40E	SUBMIT A FEASIBILITY STUDY REPORT AND PROPOSED PLAN FOR OU 200-SC-1.	12/31/2010
M-015-42D	SUBMIT A REVISED FEASIBILITY STUDY REPORT AND REVISED PROPOSED PLAN FOR 200-TW-1 AND 200-PW-5 OUS TO EPA.	12/31/2011
M-015-42E	SUBMIT A REVISED FEASIBILITY STUDY REPORT AND A REVISED RECOMMENDED REMEDY(IES) FOR 200-TW-2 OU TO ECOLOGY.	12/31/2011
M-015-43D	SUBMIT THE FEASIBILITY STUDY REPORT AND A REVISED RECOMMENDED REMEDY(IES) FOR 200-PW-2 AND 200-PW-4 OUS TO ECOLOGY.	12/31/2010
M-015-44B	SUBMIT 200-MW-1 OU FEASIBILITY STUDY REPORT AND PROPOSED PLAN TO EPA.	09/30/09
M-015-49A	SUBMIT AN ENGINEERING EVALUATION/COST ANALYSES FOR THE 200-MG-1 OU, WHICH INCLUDES MODEL GROUP 1 WASTE SITES, TO ECOLOGY (SEE APPENDIX C OF CHANGE REQUEST C-06-02).	12/31/2008

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-015-49A-T01	A DRAFT ACTION MEMORANDUM FOR THE 200-MG-1 OU WILL BE SUBMITTED WITH A PROPOSED SET OF M-016 SERIES OF INTERIM MILESTONES TO ESTABLISH SPECIFIC SCHEDULES, ADJUSTED TO SITE PRIORITIES, TO COMPLETE THE REMEDIATION FIELD WORK BY 2024. THE PROPOSED SET OF M-016 MILESTONES WILL INCLUDE A PROCESS TO RE-EVAULATE PRIORITIES ANNUALLY.	TBD (WITHIN 30 DAYS OF COMPLETION OF THE EE/CA PUBLIC COMMENT PERIOD
M-015-49B	SUBMIT AN ENGINEERING EVALUATION/COST ANALYSIS FOR THE 200-MG-2 OU, WHICH INCLUDES MODEL GROUP 1 WASTE SITES, TO EPA (SEE APPENDIX C CHANGE REQUEST C-06-02).	12/31/2008
M-015-49B-T01	A DRAFT ACTION MEMORANDUM FOR THE 200-MG-2 WILL BE SUBMITTED BY DOE WITH A PROPOSED SET OF M-016 SERIES OF INTERIM MILESTONES TO ESTABLISH SPECIFIC SCHEDULES, ADJUSTED TO SITE PRIORITIES, TO COMPLETE THE REMEDIATION FIELD WORK BY 2024. THE PROPOSED SET OF M-016 MILESTONES WILL INCLUDE A PROCESS TO RE-EVALUATE PRIORITIES ANNUALLY.	TBD (WITHIN 30 DAYS OF COMPLETION OF THE EE/CA PUBLIC COMMENT PERIOD
M-015-51	SUBMIT A REVISED FEASIBILITY STUDY REPORT AND PROPOSED PLAN FOR THE 200 BC CRIBS AND TRENCHES FOR THE NEW OU 200-BC-1 TO EPA, THAT WILL INCLUDE THE RESULTS OF THE TREATABILITY TESTS FOR 200 BC CRIBS AND TRENCHES.	04/30/2010
M-016-00 LEAD AGENCY: DUAL (see note)	COMPLETE REMEDIAL ACTIONS FOR ALL NON-TANK FARM OPERABLE UNITS.  NOTE: SEE OPERABLE UNIT LRA DESIGNATION LISTING IN APPENDIX C.	09/30/2024
M-016-00A	COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100 AREAS.  COMPLETION OF INTERIM RESPONSE ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD OR ACTION MEMORANDUM REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN OR REMOVAL ACTION WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS.	12/31/2012
M-016-00B	COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS INCLUDING THE 618-10 AND 618-11 BURIAL GROUNDS.  COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAIN EPA APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00.	09/30/2018

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-016-14B	SUBMIT A DRAFT CERCLA PROPOSED PLAN (PP) TO EITHER AMEND THE 1999 100-NR-01/NR-02 ROD FOR INTERIM ACTION OR TO PROPOSE A NEW ROD. THE PP WILL EVALUATE THE PERMEABLE REACTIVE BARRIER TECHNOLOGY AS WELL AS OTHER ALTERNATIVES AND SELECT A NEW ALTERNATIVE IN ACCORDANCE WITH CERCLA REQUIREMENTS.	12/31/09
M-016-47	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 D AREA.	12/31/2011
M-016-49	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 F AREA.	12/31/2008
M-016-50	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 H AREA.	10/31/2008
M-016-51	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 H AREA.	12/31/2011
M-016-51-T01	COMPLETE EXCAVATION OF 1 OF 5 100-H BURIAL GROUNDS (118-H-1, 118-H-2, 118-H-3, 118-H-4, OR 118-H-5).COMPLETION OF EXCAVATION MEANS THAT ALL CONTAMINATION HAS BEEN EXCAVATED FROM THE WASTE SITE OR BURIAL GROUND AS DETERMINED BY THE RELEVANT INTERIM ACTION RECORD OF DECISION, RADIOLOGICAL SURVEYS HAVE BEEN COMPLETED TO CONFIRM CLEANUP LEVELS HAVE BEEN ATTAINED, WASTE ANOMALIES ARE IDENTIFIED AND STABILIZED FOR TREATMENT, AND THE BURIAL GROUND IS STABILIZED PENDING BACKFILL AT A LATER DATE.	12/31/2009
M-016-51-T02	COMPLETE EXCAVATION OF A TOTAL OF 3 OF 5 100-H BURIAL GROUNDS (118-H-1, 118-H-2, 118-H-3, 118-H-4, OR 118-H-5) COMPLETION OF EXCAVATION MEANS THAT ALL CONTAMINATION HAS BEEN EXCAVATED FROM THE WASTE SITE OR BURIAL GROUND AS DETERMINED BY THE RELEVANT INTERIM RECORD OF DECISION, RADIOLOGICAL SURVEYS HAVE BEEN COMPLETED TO CONFIRM CLEANUP LEVELS HAVE BEEN ATTAINED, WASTE ANOMALIES ARE IDENTIFIED AND STABILIZED FOR TREATMENT, AND THE BURIAL GROUND IS STABILIZED PENDING BACKFILL AT A LATER DATE.	12/31/2010
M-016-52	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 K AREA INCLUDING CLOSURE OF THE 1706-KE WASTE TREATMENT SYSTEM IN ACCORDANCE WITH SECTION 5.5 OF THE AGREEMENT ACTION PLAN.	07/31/2009
M-016-53	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 K AREA.	12/31/2012
M-016-55	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 N AREA.	12/31/2012
M-016-56	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR 100-IU-2 AND 100-IU-6.	12/31/2008
M-016-57	INITIATE SOIL REMEDIATION AT K EAST BASIN. INITIATE FULL SCALE REMEDIAL ACTION OF THE 105-KE FUEL STORAGE BASIN SITE WITHIN ONE MONTH OF COMPLETING MILESTONE M-34-32.	10/31/2009
M-016-58	INITIATE SOIL REMEDIATION AT K WEST BASIN. INITIATE FULL SCALE REMEDIAL ACTION OF THE 105-KW FUEL STORAGE BASIN WASTE SITE WITHIN ONE MONTH OF COMPLETING MILESTONE M-34-00A.	04/30/2009

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-016-61	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE REMAINING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (618-2, 618-3, 618-5 AND 618-7).	12/31/2008
M-016-62	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, AND 618-13 (SEE TABLE 1 IN TPA CHANGE REQUEST M-16-01-06).	12/31/2012
M-016-64	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06).	09/30/2010
M-016-69	COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS TO INCLUDE CONFIRMATORY SAMPLING OF ALL CANDIDATE SITES LISTED IN THE 300-FF-2 ROD (EXCEPT FOR 618-10 AND 618-11 BURIAL GROUNDS). COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAINS EPA APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. COMPLETION OF CONFIRMATORY SAMPLING IS DEFINED AS THE COMPLETION OF THE SAMPLING NECESSARY TO DETERMINE WHETHER OR NOT THE WASTE SITE MEETS CRITERIA FOR CLEANUP OR CAN BE CLOSED OUT FROM THE WASTE INFORMATION DATA SYSTEM (WIDS) AS DEFINED IN THE RD/RA WORK PLAN. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00.	09/30/2015
M-016-73	INITIATE SUBSTANTIAL AND CONTINUOUS SOIL REMEDIATION AT THE 618-1 BURIAL GROUND.	09/30/2008
M-016-74	COMPLETE INTERIM REMEDIATION, (TO INCLUDE EXCAVATION LOADOUT, CLOSEOUT SAMPLING, BACKFILL AND REVEGETATION), FOR ALL 300 AREA "INSIDE THE FENCE" WASTE SITES NORTH OF APPLE STREET, EXCEPT THAT FOR THE 300-RLWS, 300-15, 300-4, 300-268 AND 300-123 WASTE SITES REMEDIATION NEED ONLY BE COMPLETED THROUGH EXCAVATION AND LOADOUT.	09/30/2012
M-016-75	INITIATE SUBSTANTIAL AND CONTINUOUS REMEDIATION ON THE 309 FACILITY DEDICATED RADIOACTIVE LIQUID WASTE SEWER (300 RLWS) AND THE 300 AREA PROCESS SEWER (300-15) SYSTEMS.  DEDICATED SEWERS SHALL BE CONSIDERED LINES THAT SERVE NO OTHER BUILDINGS THAN THE 309 FACILITY, AND BE LOCATED WITHIN THE QUADRANGLE FORMED BY THE FOLLOWING STREETS: REDWOOD STREET, NEW MEXICO AVENUE, CYPRESS STREET, AND CALIFORNIA AVENUE.	09/30/2013
M-016-93A	SUBMIT AN IMPLEMENTATION WORKPLAN TO EPA FOR THE ACQUISITION OF CAPABILITIES NECESSARY TO PREPARE TRU AND TRUM WASTE GENERATED BY CERCLA CLEANUP ACTIONS AT THE HANFORD SITE FOR DISPOSAL AT THE WASTE ISOLATION PILOT PLANT (WIPP). THIS WORKPLAN WILL REFLECT RETRIEVAL DECISIONS, PROJECTED WASTE VOLUMES, AND SCHEDULES FROM ALL CERCLA CLEANUP ACTIONS AUTHORIZED IN RECORDS OF DECISION AND ACTION MEMORANDA AT THE	12/31/2009

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>HANFORD SITE, AND WILL PROVIDE FOR UPDATES AND REVISIONS AS NEW INFORMATION BECOMES AVAILABLE (AT A MINIMUM, THE WORKPLAN MUST BE REVISED IN 2009 (AFTER ALL 200 AREA RODS ARE ISSUED) AND IN 2012). AS PART OF THE APPROVAL PROCESS, EPA WILL CONSULT WITH ECOLOGY TO ENSURE THE WASTES FROM CERCLA OPERABLE UNITS FOR WHICH ECOLOGY IS THE LEAD REGULATORY AGENCY ARE PROPERLY PLANNED FOR. THIS WORKPLAN WILL PROVIDE A SCHEDULE FOR ACQUIRING THE CAPABILITIES FOR TRU AND TRUM MANAGEMENT NECESSARY TO SUPPORT ALL CERCLA CLEANUP ACTIONS. IN ORDER TO AVOID DUPLICATIVE REQUIREMENTS, THE M-16-93 WORKPLAN WILL INTEGRATE PLANS DEVELOPED PURSUANT TO THE M-91 MILESTONES TO PROVIDE CAPABILITIES FOR RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE WHERE SUCH CAPABILITIES ALSO CAN BE USED FOR CERCLA TRU/TRUM WASTE. THE WORKPLAN WILL BE SUBMITTED PURSUANT TO SECTION 11.6 OF THE TRI-PARTY AGREEMENT.</p>	
M-016-93B	<p>SUBMIT AN IMPLEMENTATION WORKPLAN TO EPA FOR THE ACQUISITION OF CAPABILITIES NECESSARY TO PREPARE TRU AND TRUM WASTE GENERATED BY CERCLA CLEANUP ACTIONS AT THE HANFORD SITE FOR DISPOSAL AT THE WASTE ISOLATION PILOT PLANT (WIPP). THIS WORKPLAN WILL REFLECT RETRIEVAL DECISIONS, PROJECTED WASTE VOLUMES, AND SCHEDULES FROM ALL CERCLA CLEANUP ACTIONS AUTHORIZED IN RECORDS OF DECISION AND ACTION MEMORANDA AT THE HANFORD SITE, AND WILL PROVIDE FOR UPDATES AND REVISIONS AS NEW INFORMATION BECOMES AVAILABLE (AT A MINIMUM, THE WORKPLAN MUST BE REVISED IN 2009 (AFTER ALL 200 AREA RODS ARE ISSUED) AND IN 2012). AS PART OF THE APPROVAL PROCESS, EPA WILL CONSULT WITH ECOLOGY TO ENSURE THE WASTES FROM CERCLA OPERABLE UNITS FOR WHICH ECOLOGY IS THE LEAD REGULATORY AGENCY ARE PROPERLY PLANNED FOR. THIS WORKPLAN WILL PROVIDE A SCHEDULE FOR ACQUIRING THE CAPABILITIES FOR TRU AND TRUM MANAGEMENT NECESSARY TO SUPPORT ALL CERCLA CLEANUP ACTIONS. IN ORDER TO AVOID DUPLICATIVE REQUIREMENTS, THE M-16-93 WORKPLAN WILL INTEGRATE PLANS DEVELOPED PURSUANT TO THE M-91 MILESTONES TO PROVIDE CAPABILITIES FOR RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE WHERE SUCH CAPABILITIES ALSO CAN BE USED FOR CERCLA TRU/TRUM WASTE. THE WORKPLAN WILL BE SUBMITTED PURSUANT TO SECTION 11.6 OF THE TRI-PARTY AGREEMENT.</p>	12/31/2012
M-016-94	<p>COMPLETE INTERIM REMEDIAL ACTIONS AT 100-B/C AREA (NOT COVERED BY M-16-045).</p>	12/31/2009
M-020-00 LEAD AGENCY: ECOLOGY	<p>SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POSTCLOSURE PLANS FOR ALL RCRA TSD UNITS EXCEPT 303-M OXIDE FACILITY AND 1706-KE WASTE TREATMENT SYSTEM. PERMIT APPLICATIONS, CLOSURE, AND POST-CLOSURE PLANS WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL. INDIVIDUAL UNIT SUBMITTALS (ENFORCEABLE AS INTERIM MILESTONES) WILL OCCUR AS SHOWN IN APPENDIX D.</p> <p>PRECLOSURE WORK PLANS WILL BE PREPARED AND SUBMITTED FOR APPROVAL FOR TSD UNITS WHICH WILL ACHIEVE CLOSURE IN</p>	12/31/2008

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CONJUNCTION WITH THE DISPOSITION OF THE FACILITY IN WHICH THEY ARE CONTAINED.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-20 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-20 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	
M-020-00B	<p>SUBMIT CLOSURE/POST-CLOSURE PLANS FOR 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72. THE 303-M OXIDE FACILITY CLOSURE/POST CLOSURE, PER APPROVED CHANGE FORM M-20-92-05, IS COVERED SEPARATELY UNDER M-94-01 AND THE 1706-KE WASTE TREATMENT SYSTEM CLOSURE/POST CLOSURE IS COVERED SEPARATELY UNDER M-16-52.</p>	12/31/2008
M-020-54	<p>SUBMIT 241-CX-70 STORAGE TANK, 241-CX-71 NEUTRALIZATION TANK, 241-CX-72 STORAGE TANK CLOSURE/POST CLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE 200-IS-1 TANKS/LINES/PITS/BOXES OPERABLE UNIT WORK PLAN FEASIBILITY STUDY SCHEDULED UNDER M-13-00M.</p>	12/31/2008
M-024-000 LEAD AGENCY: ECOLOGY	<p>COMPLETE REQUIRED WELL INSTALLATIONS IN ACCORDANCE WITH THE RCRA AND CERCLA GROUNDWATER REQUIREMENTS. THE M-24 MILESTONE SERIES WILL BE CLOSED WHEN THE PARTIES AGREE THAT SUFFICIENT RCRA AND CERCLA GROUNDWATER WELLS ARE IN PLACE AND OPERATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION.</p>	TO BE DETERMINED
M-024-58 LEAD AGENCY: ECOLOGY	<p>INITIATE DISCUSSIONS OF WELL COMMITMENTS TO REAFFIRM THE SELECTED WELLS AND RECOMMEND ANY NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE CONSISTENT WITH SITE-WIDE CLEAN-UP PRIORITIES.</p>	JUNE 1 2008 AND ANNUALLY THEREAFTER
M-024-59-T01 LEAD AGENCY: ECOLOGY	<p>CONCLUDE DISCUSSIONS OF WELL COMMITMENTS INITIATED UNDER M-024-58 AND ADD A NEW INTERIM M-024 MILESTONE COMMITMENT FOR DECEMBER 31, 2011 TO INCORPORATE NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE.</p>	09/01/2008

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-024-60	<p>DOE SHALL INSTALL A MINIMUM OF 30 (60 WELLS CUMULATIVE IN CY2008 AND CY 2009) OF THE 90 WELLS IDENTIFIED IN ATTACHMENT 1 OF TPA CHANGE PACKAGE M-24-07-02.</p> <p>SINCE ALL WELLS ARE DRILLED IN CERCLA OR RCRA PAST PRACTICE OPERABLE UNITS, THE PARTIES AGREED THAT THE MOST EFFECTIVE AND EFFICIENT METHOD OF MANAGING WASTES FROM ALL HANFORD WELL DEVELOPMENT DRILLING WOULD BE TO DISPOSE OF THE WASTE IN THE HANFORD ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF). THIS WORKSCOPE WOULD BE CONDUCTED UNDER THE M-024 SERIES MILESTONES AND WILL NEED TO MEET ERDF DISPOSAL REQUIREMENTS THROUGHOUT THE TIMELY SUBMITTAL OF CERCLA SAMPLING AND ANALYSIS PLANS (OR REVISIONS TO EXISTING CERCLA SAMPLING AND ANALYSIS PLANS) FOR THE APPROPRIATE OPERABLE UNIT, APPROVED BY THE ASSIGNED LEAD REGULATORY AGENCY.</p> <p>THE INTEGRATION AND COORDINATION OF WELL DRILLING UNDER THE REVISED TRI-PARTY AGREEMENT M-014 MILESTONE SERIES WILL ASSURE CERCLA NEEDS ARE INCORPORATED INTO THE OVERALL DRILLING CAMPAIGN. IN ADDITION, THE PARTIES REAFFIRMED THEIR COMMITMENT TO SECTION 5.5 OF THE TRI-PARTY AGREEMENT ACTION PLAN, THE NEED TO COORDINATE THE APPLICATION OF REGULATORY REQUIREMENTS, AND THAT PAST-PRACTICE AUTHORITY MAY PROVIDE THE MOST EFFICIENT MEANS FOR ADDRESSING MIXED-WASTE GROUNDWATER CONTAMINATION PLUMES ORIGINATING FROM A COMBINATION OF TSD AND PAST-PRACTICE UNITS.</p> <p>IN ORDER TO ENSURE THAT TSD UNITS WITHIN THE OPERABLE UNITS ARE BROUGHT INTO COMPLIANCE WITH RCRA AND STATE HAZARDOUS WASTE REGULATIONS, THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY) INTENDS, SUBJECT TO PART FOUR OF THE TRI-PARTY AGREEMENT, THAT ALL RESPONSE OR CORRECTIVE ACTIONS, EXCLUDING SITUATIONS WHERE THERE IS AN IMMINENT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT AS DESCRIBED IN SECTION 7.2.3, WILL BE CONDUCTED IN A MANNER WHICH ENSURES COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE HAZARDOUS WASTE MANAGEMENT ACT (HWMA) CHAPTER 70.105 RCW AND IMPLEMENTING REGULATIONS. NOTWITHSTANDING THIS OPERATING ASSUMPTION, ECOLOGY RESERVES THE RIGHT TO EXERCISE ITS AUTHORITY UNDER THE HWMA AND THE HANFORD SITEWIDE RCRA PERMIT, CONDITION II.Y TO REQUIRE GROUNDWATER RESPONSE ACTIONS CONSISTENT WITH WAC 173-303-645 AND/OR 173-303-646. THE MANAGEMENT OF PURGEWATER AND INVESTIGATION DERIVED WASTES FROM EXISTING WELLS AND WELLS UNDER THE REVISED M-024 TRI-PARTY AGREEMENT MILESTONES (INCLUDING TREATMENT, STORAGE, AND DISPOSAL UNIT WELLS), WILL BE MANAGED AS CERCLA WASTES IN ACCORDANCE WITH A CERCLA DECISION DOCUMENT, SAMPLING AND ANALYSIS PLAN, OR WASTE CONTROL PLAN. NON-LIQUIDS WILL BE DISPOSED AT ERDF AS LONG AS THE WASTES MEET ERDF DISPOSAL ACCEPTANCE CRITERIA.</p> <p>PURGEWATER WILL BE STORED AND/OR TREATED AT THE 200 AREA EFFLUENT TREATMENT FACILITY OR THE 600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY, UNLESS THE LEAD REGULATORY AGENCY APPROVES A DISCHARGE REQUEST FOR RETURN TO THE ENVIRONMENT.</p> <p>(THIS MILESTONE SERIES WILL CONTINUE ON A YEARLY BASIS UNTIL SUCH TIME THAT THE PARTIES AGREE THAT SUFFICIENT RCRA AND</p>	12/31/2009



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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CERCLA GROUNDWATER WELLS ARE IN PLACE AND OPERATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION).</p> <p>THIS MILESTONE DOES NOT PRECLUDE OR FORECLOSE THE IMPOSITION OF ADDITIONAL GROUNDWATER WELL INSTALLATIONS PURSUANT TO RCRA PERMITS OR WORK PLANS AND/OR CERCLA WORKPLANS. ADDITIONAL WORK OR MODIFICATION TO WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE XXX OF THE AGREEMENT.</p>	
M-024-60-T01	<p>CONCLUDE DISCUSSIONS OF WELL COMMITMENTS INITIATED UNDER M-024-58 AND ADD A NEW INTERIM M-024 MILESTONE COMMITMENT FOR DECEMBER 31, 2012 TO INCORPORATE NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE.</p>	08/01/2009
M-024-61	<p>DOE SHALL COMPLETE THE CONSTRUCTION OF ALL WELLS LISTED FOR CALENDAR YEAR 2010 AND BEFORE, AS IDENTIFIED IN ATTACHMENT 1 OF TPA CHANGE PACKAGE M-24-08-01.</p> <p>SINCE ALL WELLS ARE DRILLED IN CERCLA OR RCRA PAST PRACTICE OPERABLE UNITS, THE PARTIES AGREED THAT THE MOST EFFECTIVE AND EFFICIENT METHOD OF MANAGING WASTES FROM ALL HANFORD WELL DEVELOPMENT DRILLING WOULD BE TO DISPOSE OF THE WASTE IN THE HANFORD ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF). THIS WORKSCOPE WOULD BE CONDUCTED UNDER THE M-024 SERIES MILESTONES AND WILL NEED TO MEET ERDF DISPOSAL REQUIREMENTS THROUGH THE TIMELY SUBMITTAL OF CERCLA SAMPLING AND ANALYSIS PLANS (OR REVISIONS TO EXISTING CERCLA SAMPLING AND ANALYSIS PLANS) FOR THE APPROPRIATE OPERABLE UNIT, APPROVED BY THE ASSIGNED LEAD REGULATORY AGENCY.</p> <p>THE INTEGRATION AND COORDINATION OF WELL DRILLING UNDER THE REVISED TRI-PARTY AGREEMENT M-014 MILESTONE SERIES WILL ASSURE CERCLA NEEDS ARE INCORPORATED INTO THE OVERALL DRILLING CAMPAIGN. IN ADDITION, THE PARTIES REAFFIRMED THEIR COMMITMENT TO SECTION 5.5 OF THE TRI-PARTY AGREEMENT ACTION PLAN, THE NEED TO COORDINATE THE APPLICATION OF REGULATORY REQUIREMENTS, AND THAT PAST-PRACTICE AUTHORITY MAY PROVIDE THE MOST EFFICIENT MEANS FOR ADDRESSING MIXED-WASTE GROUNDWATER CONTAMINATION PLUMES ORIGINATING FROM A COMBINATION OF TSD AND PAST-PRACTICE UNITS.</p> <p>IN ORDER TO ENSURE THAT TSD UNITS WITHIN THE OPERABLE UNITS ARE BROUGHT INTO COMPLIANCE WITH RCRA AND STATE HAZARDOUS WASTE REGULATIONS, THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY) INTENDS, SUBJECT TO PART FOUR OF THE TRI-PARTY AGREEMENT, THAT ALL RESPONSE OR CORRECTIVE ACTIONS, EXCLUDING SITUATIONS WHERE THERE IS AN IMMINENT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT AS DESCRIBED IN SECTION 7.2.3, WILL BE CONDUCTED IN A MANNER WHICH ENSURES COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE HAZARDOUS WASTE MANAGEMENT ACT (HWMA) CHAPTER 70.105 RCW AND IMPLEMENTING REGULATIONS. NOTWITHSTANDING THIS OPERATING ASSUMPTION, ECOLOGY RESERVES</p>	12/31/2010

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>THE RIGHT TO EXERCISE ITS AUTHORITY UNDER THE HWMA AND THE HANFORD SITEWIDE RCRA PERMIT, CONDITION II.Y TO REQUIRE GROUNDWATER RESPONSE ACTIONS CONSISTENT WITH WAC 173-303-645 AND/OR 173-303-646. THE MANAGEMENT OF PURGEWATER AND INVESTIGATION DERIVED WASATES FROM EXISTING WELLS AND WELLS UNDER THE REVISED M-024 TRI-PARTY AGREEMENT MILESTONES (INCLUDING TREATMENT, STORAGE, AND DISPOSAL UNIT WELLS), WILL BE MANAGED AS CERCLA WASTES IN ACCORANCE WITH A CERCLA DECISION DOCUMENT, SAMPLING AND ANALYSIS PLAN, OR WASATE CONTROL PLAN. NON-LIQUIDS WILL BE DISPOSED AT ERDF AS LONG AS THE WASATES MEET ERDF DISPOSAL ACCEPTANCE CRITERIA. PURGEWATER WILL BE STORED AND/OR TREATED AT THE 200 AREA EFFLUENT TREATMENT FACILITY OR THE 600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY, UNLESS THE LEAD REGULATORY AGENCY APPROVES A DISCHARGE REQUEST FOR RETURN TO THE ENVIRONMENT.</p> <p>(THIS MILESTONE SERIES WILL CONTINUE ON A YEARLY BASIS UNTIL SUCH TIME THAT THE PARTIES AGREE THAT SUFFICIENT RCRA AND CERCLA GROUNDWATER WELLS ARE IN PLACE AND OEPRATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION).</p> <p>THIS MILESTONE DOES NOT PRECLUDE OR FORECLOSE THE IMPOSITION OF ADDITIONAL GROUNDWATER WELL INSTALLATIONS PURSUANT TO RCRA PERMITS OR WORK PLANS AND/OR CERCLA WORKPLANS. ADDITIONAL WORK OR MODIFICATION TO WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE XXX OF THE AGREEMENT.</p>	
M-024-61-T01 LEAD AGENCY: ECOLOGY	CONCLUDE DISCUSSIONS OF WELL COMMITMENTS INITIATED UNDER M-024-58 AND ADD A NEW INTERIM M-024 MILESTONE COMMITMENT FOR DECEMBER 31, 2013 TO INCORPORATE NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE.	08/01/2010
M-024-62	<p>DOE SHALL COMPLETE THE CONSTRUCTION OF ALL WELLS LISTED FOR CALENDAR YEAR 2011 AND BEFORE, AS IDENTIFIED IN ATTACHMENT 1 OF TPA CHANGE PACKAGE M-24-08-01.</p> <p>SINCE ALL WELLS ARE DRILLED IN CERCLA OR RCRA PAST PRACTICE OPERABLE UNITS, THE PARTIES AGREED THAT THE MOST EFFECTIVE AND EFFICIENT METHOD OF MANAGING WASTE FROM ALL HANFORD WELL DEVELOPMENT DRILLING WOULD BE TO DISPOSE OF THE WAS IN THE HANFORD ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF). THIS WORKSCOPE WOULD BE CONDUCTED UNDER THE M-024 SERIES MILESTONES AND WILL NEED TO MEET ERDF DISPOSAL REQUIREMENTS THROUGH THE TIMELY SUBMITTAL OF CERCLA SAMPLING AND ANALYSIS PLANS (OR REVISIONS TO EXISTING CERCLA SAMPLING AND ANALYSIS PLANS) FOR THE APPROPRIATE OPERABLE UNIT, APPROVED BY THE ASSIGNED LEAD REGULATORY AGENCY.</p> <p>THE INTEGRATION AND COORDINATION OF WELL DRILLING UNDER THE REVISED TRI-PARTY AGREEMENT M-024 MILESTONE SERIES WILL</p>	12/31/2011

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ASSURE CERCLA NEEDS ARE INCORPORATED INTO THE OVERALL DRILLING CAMPAIGN. IN ADDITION, THE PARTIES REAFFIRMED THEIR COMMITMENT TO SECTION 5.5 OF THE TRI-PARTY AGREEMENT ACTION PLAN, THE NEED TO COORDINATE THE APPLICATION OF REGULATORY REQUIREMENTS, AND THAT PAST-PRACTICE AUTHORITY MAY PROVIDE THE MOST EFFICIENT MEANS FOR ADDRESSING MIXED-WASTE GROUNDWATER CONTAMINATING PLUMES ORIGINATING FROM A COMBINATION OF TSD AND PAST-PRACTICE UNITS.</p> <p>IN ORDER TO ENSURE THAT TSD UNITS WITHIN THE OPERABLE UNITS ARE BROUGHT INTO COMPLIANCE WITH RCRA AND STATE HAZARDOUS WASTE REGULATIONS, THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY) INTENDS, SUBJECT TO PART FOUR OF THE TRI-PARTY AGREEMENT, THAT ALL RESPONSE OR CORRECTIVE ACTIONS, EXCLUDING SITUATIONS WHERE THERE IS AN IMMINENT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT AS DESCRIBED IN SECTION 7.2.3, WILL BE CONDUCTED IN A MANNER WHICH ENSURES COMPLIANCE WITH THE TECHNICAL REQUIREMENTS OF THE HAZARDOUS WASTE MANAGEMENT ACT (HWMA) CHAPTER 70.105 RCW AND IMPLEMENTING REGULATIONS. NOT WITHSTANDING THIS OPERATING ASSUMPTION, ECOLOGY RESERVES THE RIGHT TO EXERCISE ITS AUTHORITY UNDER THE HWMA AND THE HANFORD SITEWIDE RCRA PERMIT, CONDITION II.Y TO REQUIRE GROUNDWATER RESPONSE ACTIONS CONSISTENT WITH WAC 173-303-645 AND/OR 173-303-646. THE MANAGEMENT OF PURGEWATER AND INVESTIGATION DERIVED WASTES FROM EXISTING WELLS AND WELLS UNDER THE REVISED M-024 TRI-PARTY AGREEMENT MILESTONES (INCLUDING TREATMENT, STORAGE, AND DISPOSAL UNIT WELLS), WILL BE MANAGED AS CERCLA WASTES IN ACCORDANCE WITH A CERCLA DECISION PLAN. NON-LIQUIDS WILL BE DISPOSED AT ERDF AS LONG AS THE WASTES MEET ERDF DISPOSAL ACCEPTANCE CRITERIA. PURGEWATER WILL BE STORED AND/OR TREATED AT THE 200 AREA EFFLUENT TREATMENT FACILITY OR THE 600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY, UNLESS THE LEAD REGULATORY AGENCY APPROVES A DISCHARGE REQUEST FOR RETURN TO THE ENVIRONMENT.</p> <p>(THIS MILESTONE SERIES WILL CONTINUE ON A YEARLY BASIS UNTIL SUCH TIME THAT THE PARTIES AGREE THAT SUFFICIENT RCRA AND CERCLA GROUNDWATER WELLS ARE IN PLACE AND OPERATING TO COMPLY WITH RCRA AND CERCLA REQUIREMENTS FOR GROUNDWATER MONITORING, GROUNDWATER PROTECTION, AND GROUNDWATER REMEDIATION.)</p> <p>THIS MILESTONE DOES NOT PRECLUDE OR FORECLOSE THE IMPOSITION OF ADDITIONAL GROUNDWATER WELL INSTALLATIONS PURSUANT TO RCRA PERMITS OR WORK PLANS AND/OR CERCLA WORKPLANS. ADDITIONAL WORK OR MODIFICATION TO WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE XXX OF THE AGREEMENT.</p>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-024-62-T01	CONCLUDE DISCUSSIONS OF WELL COMMITMENTS INITIATED UNDER M-024-58 AND ADD A NEW INTERIM M-024 MILESTONE COMMITMENT FOR DECEMBER 31, 2014 TO INCORPORATE NEW WELL INSTALLATIONS NEEDED TO MAINTAIN A THREE-YEAR ROLLING PRIORITIZED DRILLING SCHEDULE.	08/01/2011
M-026-01,S, AND INTERVENING YEARS	<p>SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS (LDR) SUMMARY REPORT IN ACCORDANCE WITH THE AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1/1 OF THE PREVIOUS YEAR THROUGH 12/31 OF THE REPORTING YEAR. THE HANFORD LAND DISPOSAL RESTRICTIONS SUMMARY REPORT WILL CONTAIN THE FOLLOWING ELEMENTS:</p> <ul style="list-style-type: none"> <li>• SECTION 1.0 INTRODUCTION</li> <li>• SECTION 1.1 CY 20XX LDR SUMMARY REPORT OVERVIEW (WHERE XX WILL BE THE REPORTING YEAR)</li> <li>• SECTION 1.2: SUMMARY INVENTORY OF WASTE TREATMENT GROUPS AND FORECAST GENERATION RATES</li> <li>• SECTION 1.3, POTENTIAL MIXED WASTE</li> <li>• SECTION 2.0: ASSESSMENTS OF MIXED WASTE STORAGE AREAS AND POTENTIAL MIXED WASTE</li> <li>• SECTION 2.1: INTRODUCTION</li> <li>• SECTION 2.2: ASSESSMENT SCHEDULES</li> <li>• SECTION 3.0: SUMMARY OF CHARACTERIZATION INFORMATION</li> <li>• SECTION 4.0: SUMMARY OF TREATMENT INFORMATION</li> <li>• SECTION 5.0: STORAGE VOLUME AND CONTAINER NUMBERS FOR SELECTED STORAGE LOCATIONS</li> <li>• SECTION 6.0: REFERENCES</li> <li>• TABLE 1-1: STORED VOLUMES OF MIXED WASTE AND GENERATION PROJECTIONS</li> <li>• TABLE 1-2: TREATABILITY GROUP SUMMARY OF STORAGE, CHARACTERIZATION, AND TREATMENT ACTIVITIES</li> <li>• TABLE 1-3: EXPLANATION OF TABLE 1-4, POTENTIAL MIXED WASTE</li> <li>• TABLE 1-4: POTENTIAL MIXED WASTE</li> <li>• TABLE 1-5: HISTORICAL LIST OF MATERIALS DELETED FROM POTENTIAL MIXED WASTE TABLE</li> <li>• TABLE 2-1: SUMMARY OF DOE-RL ASSESSMENT RESULTS</li> <li>• TABLE 2-2: DOE-RL ASSESSMENTS FOR CALENDAR YEARS 2005 THROUGH 2007 (UPDATED FOR NEXT THREE YEARS UNTIL NO ASSESSMENTS ARE SCHEDULED)</li> <li>• TABLE 2-3: SUMMARY OF DOE-ORP ASSESSMENT RESULTS</li> <li>• TABLE 3-1: SUMMARY OF CHARACTERIZATION INFORMATION FOR EACH TREATABILITY GROUP</li> <li>• TABLE 4-1: SUMMARY OF TREATMENT INFORMATION FOR EACH TREATABILITY GROUP</li> <li>• TABLE 5-1: STORAGE VOLUME AND NUMBER OF CONTAINERS FOR SELECTED HANFORD LOCATIONS</li> </ul>	04/30/2008 2009, AND INTERVENING YEARS BETWEEN FULL REPORTS

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>TABLE 5-1 WILL CONTAIN THE STORAGE VOLUME AND THE NUMBER OF CONTAINERS REPORTED FOR THE FOLLOWING HANFORD SITE LOCATIONS: CWC, LLBG, WRAP, PFP, T PLANT COMPLEX, WSCF, 325 HWTU, 324, 327, 200 ETF, AND 222-S.</p> <p>NOTE: THE LIST FOR TABLE 5-1 MAY CHANGE PERIODICALLY. THE CHANGE WILL BE MADE VIA APPROVAL OF THE APPLICABLE PROJECT MANAGERS MEETING MINUTES DOCUMENTED AND APPROVED ON OR BEFORE 11/30 OF EACH YEAR. IF NO CHANGES TO THE LIST ARE INDICATED, THE LIST WILL REMAIN UNCHANGED.</p>	
M-026-01T	<p>SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1/1 OF THE PREVIOUS YEAR THROUGH 12/31 OF THE REPORTING YEAR.</p> <p>DOE'S ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT: 1) WILL BE EQUIVALENT TO (I.E. SHALL MEET ALL SUBSTANTIVE REQUIREMENTS OF) SITE TREATMENT PLANS AS REQUIRED BY THE FEDERAL FACILITY COMPLIANCE ACT OF 1992 (FFCA) AND 2) WILL MEET ALL REQUIREMENTS OF ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000.</p> <p>THE REPORT SHALL INCLUDE A DESCRIPTION OF ACTIVITIES PLANNED AND TAKEN IN ACORDANCE WITH AGREEMENT REQUIREMENTS AND PRIOR ANNUAL LDR REPORTS TO ACHIEVE FULL COMPLIANCE WITH AGREEMENT AND LDR REQUIREMENTS. THE REPORT SHALL UPDATE ALL INFORMATION CONTAINED IN THE LDR PLAN, THE HANFORD LDR SUMMARY REPORTS, AND THE PRIOR ANNUAL LDR REPORT, INCLUDING PLANS AND SCHEDULES.</p> <p>THE FORMAT FOR THE REPORT SHALL BE BASED ON EQUIVALENCY WITH SITE TREATMENT PLAN REQUIREMENTS OF THE FFCA, ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000, AND THE "REQUIREMENTS FOR HANFORD LDR PLAN," ISSUED BY EPA AND ECOLOGY ON APRIL 10, 1990. ADDITIONALLY, THE REPORT SHALL DESCRIBE ANY OTHER STUDIES OR EFFORT THAT HAVE BEEN OR WILL BE UNDERTAKEN TO IDENTIFY ALTERNATIIVES TO LAND DISPOSAL OF MIXED WASTES. THE NONRADIOACTIVE PORTION OF ANY MIXED WASTES THAT ARE REGULATED UNDER WASHINGTON STATE-ONLY REGULATIONS SHALL BE ADDRESSED IN THE REPORT. THE REPORT SHALL BE SUBMITTED AS A PRIMARY DOCUMENT.</p> <p>THE REPORT SHALL DOCUMENT AGREEMENT MAJOR AND INTERIM MILESTONES FOR ACHIEVING COMPLIANCE WITH LDR TREATMENT REQUIREMENTS AT TSD MIXED WASATE UNITS BY: 1) IDENTIFYING AND REPORTING PROGRESS AGAINST AGREEMENT MILESTONES AND 2) PROPOSING THE ESTABLISHMENT OF MILESTONES IN THE INSTANCE OF TSD MIXED WASTES NOT YET COVERED UNDER THE AGREEMENT AND FOR THE MODIFICATION OF CURRENT HFFACO SCHEDULES AS NECESSARY TO ACHIEVE COMPLIANCE WITH LDR TREATMENT REQUIREMENTS IN A MANNER EQUIVALENT TO STPS AS REQUIRED BY THE FFCA. THESE MILESTONES SHALL BE BASED ON SIGNIFICANT EVENTS IDENTIFIED IN THE LDR REORT (I.E. SCHEDULES EQUIVALENT TO THOSE OF SITE</p>	4/30/2010 AND EVERY FIVE YEARS THEREAFTER

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	TREATMENT PLANS AS REQUIRED BY THE FFCA) AND WILL BE SHOWN AS SCHEDULES WHICH ARE UPDATED ANNUALLY AS PART OF THE REPORT. APPROPRIATE MILESTONES WILL BE INCORPORATED IN THE AGREEMENT VIA THE CHANGE PROCESS DEFINED IN SECTION 12 OF THE ACTION PLAN UPON ISSUANCE OF THE APPROVED REPORTS.	
M-026-07B	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2009
M-026-07C	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2014 AND EVERY 5 YEARS THEREAFTER
M-034-00A LEAD AGENCY: EPA	COMPLETE REMOVAL OF THE K BASINS AND THEIR CONTENT. NOTE: UNLESS OTHERWISE NOTED, THE TERM "K BASINS" IS USED TO DENOTE BOTH K EAST AND K WEST BASINS.  THIS MILESTONE WILL BE COMPLETE WHEN BOTH K EAST AND K WEST BASINS, SPENT NUCLEAR FUEL, SLUDGE, DEBRIS AND WATER ARE REMOVED.	03/31/2009
M-034-30	INITIATE SLUDGE TREATMENT.  THIS INTERIM MILESTONE WILL BE COMPLETE FOLLOWING TREATMENT AND PACKAGING OF THE FIRST UNIT OF SLUDGE INTO A FORM THAT IS CERTIFIABLE FOR DISPOSAL OFFSITE.	12/31/2008
M-034-31	COMPLETE SLUDGE TREATMENT.  THIS INTERIM MILESTONE WILL BE COMPLETE FOLLOWING TREATMENT AND PACKAGING OF ALL SLUDGE FOR DISPOSAL OFFSITE.	11/30/2009
M-034-32	COMPLETE REMOVAL OF THE K EAST BASIN STRUCTURE.	09/30/2009
M-035-00 LEAD AGENCY: DUAL	COMPLETE DATA MANAGEMENT ENHANCEMENTS AS NEGOTIATED AND APPROVED IN M-35-00 INTERIM MILESTONES.	To Be Determined
M-035-09G	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2010
M-042-00 LEAD AGENCY: ECOLOGY	PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.	To Be Determined

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
<p>M-045-00 LEAD AGENCY: ECOLOGY</p>	<p>COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS.</p> <p>CLOSURE WILL FOLLOW RETRIEVAL OF AS MUCH TANK WASTE AS TECHNICALLY POSSIBLE, WITH TANK WASTE RESIDUES NOT TO EXCEED 360 CUBIC FEET (CU. FT.) IN EACH OF THE 100 SERIES TANKS, 30 CU. FT. IN EACH OF THE 200 SERIES TANKS, OR THE LIMIT OF WASTE RETRIEVAL TECHNOLOGY CAPABILITY, WHICHEVER IS LESS. IF THE DOE BELIEVES THAT WASTE RETRIEVAL TO THESE LEVELS IS NOT POSSIBLE FOR A TANK, THEN DOE WILL SUBMIT A DETAILED EXPLANATION TO EPA AND ECOLOGY EXPLAINING WHY THESE LEVELS CANNOT BE ACHIEVED, AND SPECIFYING THE QUANTITIES OF WASTE THAT THE DOE PROPOSES TO LEAVE IN THE TANK. THE REQUEST WILL BE APPROVED OR DISAPPROVED BY EPA AND ECOLOGY ON A TANK-BY-TANK BASIS. PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED ABOVE, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX H TO THE AGREEMENT. FOR THE PURPOSES OF THIS AGREEMENT ALL UNITS LOCATED WITHIN THE BOUNDARY OF EACH TANK FARM WILL BE CLOSED IN ACCORDANCE WITH WAC 173-303-610. THIS INCLUDES CONTAMINATED SOIL AND ANCILLARY EQUIPMENT THAT WERE PREVIOUSLY DESIGNATED AS RCRA PAST PRACTICE UNITS. ADOPTING THIS APPROACH WILL ENSURE EFFICIENT USE OF FUNDING AND WILL REDUCE POTENTIAL DUPLICATION OF EFFORT VIA APPLICATION OF DIFFERENT REGULATORY REQUIREMENTS: WAC 173-303-610 FOR CLOSURE OF THE TSD UNITS AND RCRA SECTION 3004(U) FOR REMEDIATION OF RCRA PAST PRACTICE UNITS.</p> <p>ALL PARTIES RECOGNIZE THAT THE RECLASSIFICATION OF PREVIOUSLY IDENTIFIED RCRA PAST PRACTICE UNITS TO ANCILLARY EQUIPMENT ASSOCIATED WITH THE TSD UNIT IS STRICTLY FOR APPLICATION OF A CONSISTENT CLOSURE APPROACH. UPGRADES TO PREVIOUSLY CLASSIFIED RCRA PAST PRACTICE UNITS TO ACHIEVE COMPLIANCE WITH RCRA OR DANGEROUS WASTE INTERIM STATUS TECHNICAL STANDARDS FOR TANK SYSTEMS (I.E., SECONDARY CONTAINMENT, INTEGRITY ASSESSMENTS, ETC.) WILL NOT BE MANDATED AS A RESULT OF THIS ACTION. HOWEVER, ANY EQUIPMENT MODIFIED OR REPLACED WILL MEET INTERIM STATUS STANDARDS. IN EVALUATING CLOSURE OPTIONS FOR SINGLE-SHELL TANKS, CONTAMINATED SOIL, AND ANCILLARY EQUIPMENT, ECOLOGY AND EPA WILL CONSIDER COST, TECHNICAL PRACTICABILITY, AND POTENTIAL EXPOSURE TO RADIATION. CLOSURE OF ALL UNITS WITHIN THE BOUNDARY OF A GIVEN TANK FARM WILL BE ADDRESSED IN A CLOSURE PLAN FOR THE SINGLE-SHELL TANKS.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-45 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-45 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE</p>	<p>09/30/2024</p>

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0. COMPLETION OF THIS MAJOR MILESTONE REQUIRES THE COMPLETION OF THE WORK SCOPE IN ALL PRECEEDING MILESTONES AND TARGET DATES, UNLESS OTHERWISE AGREED TO BY THE PARTIES.</p> <p>ALL WORK UNDER THIS MILESTONE M-45 SERIES SHALL BE CONDUCTED IN COMPLIANCE WITH AGREEMENT REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE PARTIES' AGREEMENT APPENDIX I, "SINGLE-SHELL TANK SYSTEM WASTE RETRIEVAL AND CLOSURE PROCESS".</p>	
M-045-00B	<p>COMPLETE SPECIFIED SST WASTE RETRIEVAL/CLOSURE ACTIVITIES</p> <p>COMPLETE SPECIFIED "NEAR TERM" SST WASTE RETRIEVAL AND INTERIM CLOSURE ACTIVITIES, TO RESULT IN THE RETRIEVAL OF ALL TANK WASTES IN WMA-C SSTs PURSUANT TO THE AGREEMENT CRITERIA IN MILESTONE M-45-00.</p> <p>UNTIL THE WASTE TREATMENT COMPLEX IS OPERATIONAL, THE AMOUNT OF DST SPACE AVAILABLE TO RECEIVE SST WASTE IS LIMITED. THE NEAR TERM FOCUS FOR SST WASTE RETRIEVAL WILL INCLUDE MAXIMIZING THE TRANSFER OF CONTAMINANTS OF CONCERN (LONG-LIVED, MOBILE RADIONUCLIDES) INTO THE DST SYSTEM AND OPTIMIZING WASTE FEED SO AS TO MAINTAIN EFFICIENT WTP OPERATIONS. ADDITIONAL CRITERIA THAT WILL BE CONSIDERED IN TANK SELECTION AND MAY RESULT IN LOWER RISK TANKS BEING RETRIEVED EARLIER IN THE SEQUENCE, INCLUDE:</p> <ul style="list-style-type: none"> <li>• WORKER SAFETY</li> <li>• FACILITATION OF WMA CLOSURES.</li> <li>• THE OPTIMIZATION OF DST SPACE UTILIZATION CONSIDERING RESOURCE LEVELING AND WASTE TRANSFER INFRASTRUCTURE</li> <li>• RETRIEVAL AND CLOSURE REQUIREMENTS FOR ASSOCIATED ANCILLARY EQUIPMENT.</li> </ul> <p>WORK UNDER THIS MILESTONE INCLUDES:            COMPLETION OF FOUR "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS, AND RETRIEVAL OF SUFFICIENT SST WASTE CONTAINING NO LESS THAN 800 CURIES OF CONTAMINANTS OF CONCERN AND OCCUPYING A MINIMUM OF 3 MILLION GALLONS OF DST SPACE. "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS WILL SEEK TO IMPROVE UPON PAST PRACTICE SLUICING (PPS) BASELINE TECHNOLOGY INCLUDING BUT NOT LIMITED TO RETRIEVAL EFFICIENCY, LEAK LOSS DURING RETRIEVAL, AND LEAK DETECTION MITIGATION AND MONITORING (LDMM).</p> <p>RETRIEVAL DEMONSTRATIONS SHALL BE CONDUCTED FOR 1) SALTCAKE DISSOLUTION (AT TANK S-112), 2) MODIFIED SLUICING (AT TANK C-106, 3) VACUUM RETRIEVAL (AT DOE'S C-200 SERIES TANKS), AND 4) MRS (ROBOTIC TECHNOLOGIES) + VACUUM RETRIEVAL AT TANK C-110, C-111, OR C-101 (WHICHEVER IS RETRIEVED FIRST).</p>	<p>09/30/2006            OR AS            OTHERWISE            INDICATED            WITHIN THE            DESCRIPTIVE            TEXT OF            THIS            MILESTONE</p>



**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SLUDGE/HARD HEEL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS.</p> <p>INSTALLATION AND IMPLEMENTATION OF FULL SCALE EXTERNAL-TANK LEAK DETECTION, MONITORING, AND MITIGATION (LDMM) TECHNOLOGIES FOR THE FIRST THREE 100 SERIES TANK RETRIEVALS FOLLOWING TANK S-112. THE BASELINE LDMM SYSTEM (I.E. DRYWELL LOGGING) IS TO BE SUPPLEMENTED, USING AN EXTERNAL-TANK ELECTRICAL RESISTIVITY (ER) METHOD. THE ELECTRICAL RESISTIVITY SYSTEM WILL BE DESIGNED FOR IMPLEMENTATION AT THE THREE TANKS AND FULLY DEPLOYED AT THE FIRST TANK TO BE RETRIEVED. CRITERIA FOR THE DEMONSTRATION AT THE FIRST TANK SHALL BE AGREED TO BY DOE AND ECOLOGY BEFORE THE TECHNOLOGY IS INSTALLED.</p> <ul style="list-style-type: none"> <li>• DOE WILL SUBMIT FOR ECOLOGY APPROVAL A TEST PLAN INCLUDING AN INJECTION TEST, DESCRIBING THE CRITERIA AND METHOD TO TEST THE SELECTED ER. 90 DAYS AFTER THE COMPLETION OF THE TESTING, DOE WILL SUBMIT AN EVALUATION REPORT AND ANY RECOMMENDATION FOR FURTHER DEPLOYMENT.</li> <li>• IF THE PARTIES AGREE THAT THE METHOD IS SUITABLE, ER WILL BE DEPLOYED IN THE SUBSEQUENT APPROPRIATE RETRIEVAL TANKS.</li> <li>• IF THE PARTIES DO NOT AGREE THAT ER IS SUITABLE FOR SUBSEQUENT RETRIEVALS, OR IF THE DATA IS INCONCLUSIVE, ECOLOGY WILL REQUIRE APPLICATION AND/OR DEVELOPMENT OF APPROPRIATE LDMM TECHNOLOGY IN LIEU OF OR IN ADDITION TO ER.</li> </ul> <p>SUBMITTAL AS AGREEMENT PRIMARY DOCUMENTS, TANK WASTE RETRIEVAL WORK PLANS FOR TANKS C-101, C-102, C-103, C-104, C-105, C-107, C-108, C-109, C-110, C-111, C-112, C-201, C-202, C-203, AND C-204. TANKS C-201, C-202, C-203 AND C-204</p> <ul style="list-style-type: none"> <li>○ TANKS C-201, C-202, C-203 AND C-204, (PROVIDE SUPPLEMENTAL INFORMATION BY MARCH 31, 2004 TO INCLUDE START OF RETRIEVAL DATE AS PER APPENDIX I REQUIREMENTS).</li> <li>○ DOE SHALL SUBMIT TWRWP(S) FOR 2 100-SERIES TANKS BY JULY 31, 2004.</li> <li>○ DOE SHALL SUBMIT TWRWP(S) FOR 4 100-SERIES TANKS BY OCTOBER 31, 2004.</li> <li>○ DOE SHALL SUBMIT TWRWP(S) FOR 5 100-SERIES TANKS BY JANUARY 31, 2005.</li> </ul> <p>SUBMITTAL TO ECOLOGY OF CERTIFIED COMPONENT CLOSURE ACTIVITY PLANS FOR THE PRECEDING SSTs IN ACCORDANCE WITH AGREEMENT APPENDIX I.</p>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>SUBMITTAL OF WMA INTEGRATION PLANS FOR WMA-C AND ONE ADDITIONAL WMA BY JUNE 30, 2005.</p> <p>THE SELECTION OF ADDITIONAL SSTs FOR WASTE RETRIEVAL SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF AGREEMENT APPENDIX I, SECTION 2.1.2.</p> <p>IN ADDITION TO THE PRECEDING, DOE WILL PROCESS A BASELINE CHANGE CONTROL, AND ASSOCIATED WORK DIRECTIVES AS MAY BE NECESSARY, CONSISTENT WITH THIS AGREEMENT AND THE PARTIES' MILESTONE M-45-04-01 CHANGE REQUEST NO LATER THAN SEPTEMBER 30, 2004.</p> <p>PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED WITHIN THE ASSOCIATED MILESTONES, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX "H" TO THIS AGREEMENT.</p>	
M-045-00C	<p>INITIATE NEGOTIATION OF SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES AND ASSOCIATED SCHEDULES (FOR THE PERIOD FEBRUARY 2007 THROUGH AUGUST 2008).</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE'S SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVALS, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT, 7.) SCHEDULES FOR WMA ANCILLARY EQUIPMENT WASTE RETRIEVAL AND CLOSURE, 8.) OTHER ACTIVITIES AS MAY BE NECESSARY TO SUPPORT WMA CLOSURES, AND 9.) ACQUISITION OF ADDITIONAL COMPLIANT STORAGE SPACE, E.G., NEW DSTs, IF NEEDED.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 120 DAYS. IN THE EVENT THE PARTIES DO</p>	09/30/2006

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 150 DAYS OF INITIATION OF NEGOTIATIONS.</p>	
M-045-00D	<p>INITIATE NEGOTIATION OF THE SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES FOR THE PERIOD SEPTEMBER 2008 TO SEPTEMBER 2013.</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., PHASE I RFI REPORTS OF ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-55), CORRECTIVE MEASURES STUDIES FOR ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-56, DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE'S SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVAL SEQUENCE, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT, 7.) SCHEDULES FOR WMA ANCILLARY EQUIPMENT WASTE RETRIEVAL AND CLOSURE, 8.) OTHER ACTIVITIES AS MAY BE NECESSARY TO SUPPORT WMA CLOSURES, AND 9.) ACQUISITION OF ADDITIONAL COMPLIANT STORAGE SPACE, E.G., NEW DSTs, IF NEEDED.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTE INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON USING THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 150 DAYS. IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 180 DAYS OF INITIATION OF NEGOTIATIONS.</p>	01/31/2008

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-00E	<p>INITIATE NEGOTIATION OF SST WASTE RETRIEVAL AND CLOSURE ACTIVITIES FOR THE REMAINDER OF THE SST PROGRAM.</p> <p>THESE NEGOTIATIONS WILL ESTABLISH REGULATORY REQUIREMENTS FOR THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM (THROUGH COMPLETION OF CLOSURE AT ALL SST WMAs). NEGOTIATIONS WILL INCLUDE MODIFICATION AS MAY BE NECESSARY OF COMPLETION DATES FOR SST WASTE RETRIEVAL AND SST WMA CLOSURE BASED ON EXPERIENCE GAINED FROM PHASE I RFI REPORTS OF ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-55), CORRECTIVE MEASURES STUDIES FOR ALL SST WMAs (PURSUANT TO AGREEMENT MILESTONE M-45-56), DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE, INFORMATION PERTINANT TO, AND THE OUTCOME OF THE PARTIES' WTP PROCESSING CAPACITY AND SUPPLEMENTAL TREATMENT TECHNOLOGY VIABILITY NEGOTIATIONS (PURSUANT TO AGREEMENT MILESTONE M-62-08), AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE'S SSTs.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE CRITERIA OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION.</p> <p>THE ECOLOGY AND DOE NEGOTIATIONS UNDER THIS MILESTONE SHALL BE COMPLETED WITHIN 120 DAYS. IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE ECOLOGY AND DOE, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN 150 DAYS OF INITIATION OF NEGOTIATIONS.</p>	10/31/2012
M-045-02N	<p>SUBMIT BIENNIAL UPDATES TO SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.</p> <p>THIS PROVIDES FOR A BIENNIAL UPDATE OF A SST RETRIEVAL SEQUENCE DOCUMENT THAT WILL DEFINE THE TANK RETRIEVAL SEQUENCE, SELECTION CRITERIA AND, RATIONALE, REFERENCE RETRIEVAL METHOD(S) FOR EACH TANK, AND THE ESTIMATED RETRIEVAL SCHEDULES. THE RETRIEVAL SEQUENCE DOCUMENT WILL LIST RETRIEVAL METHODOLOGIES TO BE EMPLOYED AND ESTIMATED WASTE VOLUMES TO BE GENERATED DURING RETRIEVAL (TO BE TRANSFERRED TO THE DST'S OR OTHER AVAILABLE SAFE STORAGE). THE REPORT WILL ALSO LIST TANK SELECTION RATIONALE BASED ON THE PRIMARY OBJECTIVE OF MAXIMIZING RISK REDUCTION THROUGH THE RETRIEVAL OF MOBILE, LONG-LIVED RADIONUCLIDES OR POTENTIAL AIRBORNE CONTAMINANTS AND PRINCIPLE NON RADIOLOGICAL HAZARDOUS CONSTITUENTS IN A MANNER WHICH IS</p>	03/01/2008

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>SENSITIVE TO WASTE TREATMENT FACILITY REQUIREMENTS AND INFRASTRUCTURE CONSTRAINTS. THE SEQUENCING WILL ALSO TAKE IN CONSIDERATION DST SPACE AND DST WASTE COMPATABILITY WHEN SELECTING THE SST RETRIEVAL SEQUENCE. TANK SELECTION FOR RETRIEVAL WILL TAKE INTO CONSIDERATION THE CLOSURE OF WASTE MANAGEMENT AREAS AND RESOURCE OPTIMIZATION. THE BIENNIAL UPDATES WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL AS AGREEMENT PRIMARY DOCUMENTS.</p> <p>THIS ALSO PROVIDES FOR A BIENNIEL UPDATE OF THE DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT. THIS NEW MILESTONE REPLACED MILESTONE M-31-02 AND SUBSEQUENTLY M-46-00K, M-46-00L, AND M-46-00M, ETC. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON A BIENNIAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION. ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. WITHIN 60 DAYS OF RECEIVING THE DST TANK SPACE EVALUATION DOCUMENT, THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.</p>	
M-045-02O	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. (SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2010
M-045-02P	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS. (SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2012
M-045-02Q	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.(SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2014
M-045-02R	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2016
M-045-02S	SUBMIT BIENNIAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT (AGREEMENT APPENDIX I. SECTION 2.1.2), AND DOUBLE SHELL TANK SPACE EVALUATION DOCUMENT AND ECOLOGY CONCURRENCE OF ADDITIONAL TANK ACQUISITION WITHIN 60 DAYS.SEE TEXT OF M-45-02N FOR FURTHER DETAILS).	03/01/2018 AND BIENNIALLY THEREAFTER

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-05	RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS. COMPLETE WASTE RETRIEVAL FROM ALL REMAINING SINGLE-SHELL TANKS. RETRIEVAL STANDARDS AND COMPLETION DEFINITIONS ARE PROVIDED UNDER THE MAJOR MILESTONE. THE SCHEDULE REFLECTS RETRIEVAL ACTIVITIES ON A FARM-BY-FARM BASIS. IT ALSO ALLOWS FLEXIBILITY TO RETRIEVE TANKS FROM VARIOUS FARMS IF DESIRED TO SUPPORT SAFETY ISSUE RESOLUTION, PRETREATMENT OR DISPOSAL FEED REQUIREMENTS, OR OTHER PRIORITIES.	09/30/2018
M-045-05-T05	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2007
M-045-05-T06	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2008
M-045-05-T07	INITIATE TANK RETRIEVAL FROM SEVEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2009
M-045-05-T08	INITIATE TANK RETRIEVAL FROM EIGHT ADDITIONAL SINGLE-SHELL TANKS.	09/30/2010
M-045-05-T09	INITIATE TANK RETRIEVAL FROM TEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2011
M-045-05-T10	INITIATE TANK RETRIEVAL FROM 12 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2012
M-045-05-T11	INITIATE TANK RETRIEVAL FROM 14 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2013
M-045-05-T12	INITIATE TANK RETRIEVAL FROM 17 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2014
M-045-05-T13	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2015
M-045-05-T14	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2016
M-045-05-T15	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2017
M-045-05A	<p>COMPLETE WASTE RETRIEVAL FROM TANK S-102.</p> <p>THE S-102 WASTE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) WILL BE SELECTED BASED ON THE PRINCIPLE CRITERIA OF MAXIMIZING THE RETRIEVAL OF MOBILE, LONG-LIVED RADIOISOTOPES AND NON-RADIOLOGICAL HAZARDOUS CONSTITUENTS. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR WASTE RETRIEVAL PURPOSES. RETRIEVAL SHALL BE PERFORMED IN ACCORDANCE WITH GOALS AND CRITERIA SPECIFIED IN M-45-00.</p> <p>COMPLETION OF S-102 WASTE RETRIEVAL IS SUBJECT TO SAFE STORAGE SPACE AVAILABILITY CONSISTENT WITH M-45-00B.</p>	03/31/2007

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-06	COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS IN ACCORDANCE WITH APPROVED CLOSURE/POST CLOSURE PLAN(S).	09/30/2024
M-045-06-T03	INITIATE CLOSURE ACTIONS ON A WMA BASIS. CLOSURE SHALL FOLLOW COMPLETION OF THE RETRIEVAL ACTIONS UNDER PROPOSED MILESTONE M-45-05. CLOSURE WILL BE DEFINED IN AN APPROVED CLOSURE PLAN FOR THE DEMONSTRATION FARM. FINAL CLOSURE IS DEFINED AS ECOLOGY ACCEPTANCE OF DOE'S CERTIFICATION OF COMPLETION OF CLOSURE.	03/31/2012
M-045-06-T04	COMPLETE CLOSURE ACTIONS ON ONE WMA.	03/31/2014
M-045-13	<p>INTERIM COMPLETION OF TANK S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTATION PROJECT.</p> <p>THE S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL SUBMIT A RETRIEVAL DATA REPORT PURSUANT TO AGREEMENT APPENDIX I) BY DECEMBER 31, 2007.</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK BY DECEMBER 31,2007.</li> <li>3. AN UPDATE TO THE S-112 COMPONENT CLOSURE ACTIVITY PLAN HAS BEEN SUBMITTED BY DOE.</li> <li>4. IF APPROPRIATE, DOE HAS REQUESTED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</li> </ol>	06/30/2011 OR AS OTHERWISE INDICATED WITHIN THE DESCRIPTIVE TEXT OF THIS MILESTONE
M-045-15	<p>INTERIM COMPLETION OF TANK S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> <li>1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-102 INITIAL WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL SUBMIT A RETRIEVAL DATA REPORT PURSUANT TO AGREEMENT APPENDIX I). NOTE: THIS CRITERION AND DUE DATE DOES NOT MODIFY MILESTONE M-045-05A.</li> <li>2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK.</li> </ol>	06/30/2011

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>3. AN UPDATE TO THE S-102 COMPONENT CLOSURE ACTIVITY PLAN HAS BEEN SUBMITTED BY DOE.</p> <p>4. IF APPROPRIATE, DOE HAS REQUESTED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.</p>	
M-045-56	<p>COMPLETE IMPLEMENTATION OF AGREED-TO INTERIM MEASURES.</p> <p>SPECIFIC INTERIM MEASURES WILL BE IMPLEMENTED PURSUANT TO AGREEMENT COMMITMENTS (E.G., SEE INTERIM MILESTONE M-45-57). INTERIM MEASURES MAY ALSO BE REQUIRED BY ECOLOGY, PROPOSED BY DOE IN THE SST WMA RFI REPORT (M-45-55) (OR ENGINEERING STUDIES INCLUDING THAT ADDRESSED IN TARGET MILESTONE M-45-56-T01), OR ESTABLISHED BY AGREEMENT OF THE PARTIES AT ANY TIME DURING THE CORRECTIVE ACTION PROCESS. ALSO SEE TABLE 1 OF AGREEMENT CHANGE CONTROL FORM #M-45-98-03.</p> <p>ECOLOGY AND DOE AGREE, AT A MINIMUM, TO MEET YEARLY (BY JULY OR AS NEEDED TO SUPPORT ANNUAL BUDGETING) FOR THE SPECIFIC PURPOSE OF ASSESSING THE ADEQUACY OF INFORMATION, AND THE NEED FOR THE ESTABLISHMENT OF ADDITIONAL AGREEMENT INTERIM MEASURES. ADDITIONAL AGREEMENT INTERIM MEASURES SHALL BE DOCUMENTED THROUGH ESTABLISHMENT OF INTERIM MILESTONES AND ASSOCIATED TARGET DATES AS AGREED NECESSARY BY THE PARTIES.</p>	To Be Determined
M-045-58	<p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A PHASE 2 MASTER WORKPLAN THAT DESCRIBES THE PROPOSED APPROACH FOR THE COMPLETION OF CORRECTIVE ACTION TO MEET FINAL CLOSURE REQUIREMENTS IN THE WASTE MANAGEMENT AREAS AS DESCRIBED IN APPENDIX I, SECTION 2.3.</p>	12/31/08
M-045-59	<p>CONTROL SURFACE WATER INFILTRATION PATHWAYS AS NEEDED TO CONTROL OR SIGNIFICANTLY REDUCE THE LIKELIHOOD OF MIGRATION OF SUBSURFACE CONTAMINATION TO GROUNDWATER AT THE SST WMAS (PENDING THE CMS REPORT, MILESTONE M-45-58, AND IMPLEMENTATION OF OTHER INTERIM CORRECTIVE MEASURES.</p> <p>DECISIONS ON CONTROLLING SURFACE WATER INFILTRATION PATHWAYS WILL BE MADE BY EVALUATING THE ROLE OF SURFACE WATER INFILTRATION AND THE TRANSPORT OF SUBSURFACE CONTAMINATION TO GROUNDWATER. BASED ON THE CORRECTIVE MEASURES STUDY (M-45-58) INTERIM SURFACE BARRIERS AND/OR OTHER INFILTRATION CONTROLS MAY BE REQUIRED.</p>	To Be Determined
M-045-60	<p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT, DOE'S PHASE 2 RFI/CMS WORK PLAN AND SAMPLING ANALYSIS PLAN (SAP) FOR WMA C.</p>	12/31/2008
M-045-61	<p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT, A PHASE 2 RCRA FACILITY INVESTIGATION/CORRECTIVE MEASURES STUDY REPORT FOR WMA C.</p>	12/31/2010



**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-62	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A PHASE 2 CORRECTIVE MEASURES IMPLEMENTATION WORK PLAN FOR WMA C.	07/31/2012
M-047-00	DOE, AND ASSOCIATED CONTRACTORS SHALL COMPLETE ALL WORK NECESSARY IN SUPPORT OF THE ACQUISITION AND OPERATION OF HANFORD SITE HIGH-LEVEL RADIOACTIVE TANK WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES. WORK INCLUDED UNDER THIS MILESTONE SERIES SHALL INCLUDE BUT IS NOT LIMITED TO WORK NECESSARY TO: (1) PROVIDE TIMELY TANK WASTE FEED TO TANK WASTE TREATMENT FACILITIES, (2) PROVIDE ADEQUATE DOUBLE-SHELL TANK (DST) SPACE, (3) PROVIDE NECESSARY INFRASTRUCTURE INCLUDING SOLID WASTE SERVICES AND SECONDARY WASTE TREATMENT (E.G., TANK WASTE TREATMENT FACILITY LIQUID EFFLUENTS). SEE ALSO MILESTONE SERIES M-90-00. THE PARTIES WILL REVISE OR CONFIRM THE DUE DATES FOR MILESTONES M-47-01, M-47-02, M-47-03, M-47-03A, M-47-04, M-47-05 AND M-47-05A WITHIN SIX (6) MONTHS OF AUTHORIZATION TO PROCEED (SEE MILESTONE M-62-04). REVISION, IF NECESSARY, SHALL BE CONSISTENT WITH COMPLETION OF HOT COMMISSIONING BY 1/31/2011, AND COMPLETION OF THE PRETREATMENT AND VITRIFICATION OF NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS AND 25% BY ACTIVITY BY 2/28/2018. COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-47 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-47 MAJOR AND INTERIM MILESTONE REQUIREMENTS. DOE INTERNAL WORK SCHEDULES (I.E., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.	02/28/2018
M-047-03A	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL HIGH-LEVEL WASTE FEED TANK.	03/31/2009
M-047-06	COMPLETE NEGOTIATION OF ADDITIONAL AGREEMENT REQUIREMENTS (MILESTONES, TARGET DATES, AND ASSOCIATED LANGUAGE) GOVERNING WORK NECESSARY TO SUPPORT COMPLETION OF TREATMENT COMPLEX OPERATIONS BY 2018.	06/30/2010
M-050-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT PROCESSING OF HANFORD TANK WASTE.	12/31/2028
M-051-00 LEAD AGENCY: ECOLOGY	COMPLETE VITRIFICATION OF HANFORD HIGH LEVEL TANK WASTE.	12/31/2028

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-061-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT AND IMMOBILIZATION OF HANFORD LOW ACTIVITY WASTE (LAW).	12/31/2028
M-062-00	<p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HIGH LEVEL (HLW) AND LOW ACTIVITY (LAW) TANK WASTES.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-62 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-62 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	12/31/2028
M-062-00A	<p>COMPLETE WTP PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HLW AND LAW TANK WASTES.</p> <p>TANK WASTE PROCESSING SHALL COMPLETE THE WTP PRETREATMENT AND VITRIFICATION OF NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS* AND 25% BY ACTIVITY.</p> <p>*[IN MEETING THIS REQUIREMENT DOE WILL PRETREAT AND VITRIFY NO LESS THAN 6000 METRIC TONS OF SODIUM (IN THE INSTANCE OF LAW FEED) AND 800 METRIC TONS OF WASTE OXIDES (IN THE INSTANCE OF HLW FEED)]</p>	02/28/2018
M-062-01R	<p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S</p>	01/31/2009 SEMI- ANNUALLY BEGINNING JULY 31, 2000

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E., WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.</p>	
M-062-07B	<p>COMPLETE ASSEMBLY OF LOW ACTIVITY WASTE VITRIFICATION FACILITY MELTER #1 SO THAT IT IS READY FOR TRANSPORT AND INSTALLATION IN THE LAW VITRIFICATION BUILDING (BNI BASELINE SCHEDULE ACTIVITY 4DL321A200 AS PART OF DOE CONTRACT NO. DE-AC27-01RV14136), AND COMPLETE SCHEDULE ACTIVITY ID 4DH46102A2-MOVE #1 MELTER INTO THE HIGH LEVEL WASTE VITRIFICATION FACILITY.</p> <p>THIS MILESTONE REPRESENTS 1) THE ASSEMBLY OF LAW MELTER #1 TO THE POINT IT IS READY FOR REFRACTORY AS PART OF BNI BASELINE ACTIVITIES 3EL3212A00 SPECIFICATIONS AND ANALYSIS, 4DL321A000 LAW - PROCURE MATERIAL &amp; EQUIPMENT FOR MELTERS AND 4DL321A200 LAW- ASSEMBLE MELTER #1 (CONTRACT NO. DE-AC27-01RV14136). IN ADDITION, ACTIVITIES 4DL121U100 LAW - ELEV +3 SOUTH MELTER FREP AND 4DL131D000 LAW - ELEV +28 COLUMNS, BEAMS &amp; Q-DECKING AT +48 SHALL BE SUBSTANTIALLY COMPLETED, 2) MOVING THE FIRST HLW MELTER INTO THE HLW FACILITY AS DEFINED IN BNI BASELINE ACTIVITIES ID 4DH46102A2.</p> <p>COMPLETION OF THIS MILESTONE WILL BE MET WHEN 1) LAW MELTER #1 WILL HAVE BEEN FULLY FABRICATED, ASSEMBLED AND READY FOR REFRACTORY MATERIAL TO BE INSTALLED. ASSEMBLY OF THE MELTER IS SCHEDULED TO OCCUR NEAR THE END OF LAW CONSTRUCTION WHEN THE FACILITY IS MOST READY TO HAVE THE ASSEMBLED MELTER MOVED INTO THE LAW CELL WHERE THE REFRACTORY MATERIAL WILL BE INSTALLED. MEETING THIS MILESTONE THEREFORE REPRESENTS SIGNIFICANT ACCOMPLISHMENT OF THE ENGINEERING, DESIGN AND CONSTRUCTION OF THE LAW FACILITY; AND 2) HLW MELTER #1 HAS BEEN FULLY FABRICATED AND MOVED INTO THE HLW VITRIFICATION FACILITY.</p>	12/31/2007
M-062-08	<p>SUBMITTAL OF HANFORD TANK WASTE SUPPLEMENTAL TREATMENT TECHNOLOGIES REPORT, DRAFT HANFORD TANK WASTE TREATMENT BASELINE AND DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP).</p> <p>DOE WILL SUBMIT A SUPPLEMENTAL TREATMENT TECHNOLOGIES REPORT THAT DESCRIBES THE TECHNICAL, FINANCIAL, AND CONTRACTUAL ALTERNATIVES WHICH IN COMBINATION WITH THE WTP AND ANY REQUIRED ADDITIONAL LAW VITRIFICATION FACILITIES, ARE NEEDED TO TREAT ALL OF HANFORD'S TANK WASTES. THE REPORT WILL IDENTIFY AND DESCRIBE VIABLE PATH(S) FORWARD TO COMPLETE TREATMENT OF ALL TANK WASTES BY 12/31/2028. THE REPORT SHALL APPLY THE SAME SELECTION CRITERIA TO ALL OPTIONS AND INCLUDE THE 2<sup>ND</sup> LAW VITRIFICATION FACILITY AS AN OPTION. THE REPORT WILL INCLUDE: THE RESULTS OF ALL WASTE FORM PERFORMANCE DATA (COMPARED AGAINST THE PERFORMANCE OF BOROSILICATE GLASS) FOR</p>	06/30/2006

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ALL THE TREATMENT TECHNOLOGIES BEING CONSIDERED; PERFORMANCE DATA WILL BE ADEQUATE TO MAKE DECISIONS AS TO THE ACCEPTABILITY OF ANY PROPOSED WASTE FORM FOR THE WASTE BEING CONSIDERED, AND DESCRIPTION OF THE CONSIDERED TREATMENT TECHNOLOGIES (INCLUDING SIZE, THROUGHPUT, TECHNICAL VIABILITY, AND LIFE CYCLE COST ESTIMATES).</p> <p>THIS REPORT WILL ALSO INCLUDE A DISCUSSION OF WASTE TREATMENT PLANT THROUGHPUT COMMITMENTS AND THE REALISTIC POTENTIAL FOR ENHANCING THE THROUGHPUT OF CURRENTLY PLANNED MELTERS, PROPOSED ADDITIONAL MELTERS AND POTENTIAL SECOND GENERATION MELTERS INSTALLED AT FIRST MELTER CHANGE OUT.</p> <p>THE DRAFT BASELINE WILL CONTAIN DOE'S PROPOSED APPROACH FOR TREATING ALL HANFORD TANK WASTES (HLW, LAW, AND TRU) BY 12/31/2028 INCLUDING LIFE CYCLE COST ESTIMATES THAT INDICATE PROJECTED FUNDING REQUIREMENTS THROUGH COMPLETION OF THE RIVER PROTECTION PROJECT MISSION, A SCHEDULE FOR CONSTRUCTION AND OPERATION OF PROPOSED NEW FACILITIES AND/OR ENHANCEMENTS TO THE WTP, AND PROJECTED THROUGHPUT FOR EACH FACILITY. THE REPORT AND BASELINE WILL BE ACCOMPANIED BY A DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP) AND DRAFT AGREEMENT CHANGE REQUEST CONTAINING MILESTONES AND ASSOCIATED AGREEMENT REQUIREMENTS SUFFICIENT TO EFFECTIVELY DRIVE ALL REQUIRED WORK, INCLUDING BUT NOT LIMITED TO: 1) THE ESTABLISHMENT OF REQUIREMENTS REGARDING ANY NECESSARY WTP MODIFICATION(S), 2) THE ESTABLISHMENT OF REQUIREMENTS SCHEDULING THE ACQUISITION AND OPERATION OF ANY APPROVED TREATMENT TECHNOLOGY SYSTEMS , 3) THE ESTABLISHMENT OF PRODUCTION METRICS FOR TREATMENT COMPLEX (WTP PLUS ANY SUPPLEMENTAL TREATMENT SYSTEM OR SECOND LAW VITRIFICATION FACILITY) CONSISTENT WITH COMPLETION OF TREATMENT BY 12/31/2028, 4) THE ESTABLISHMENT OF REQUIREMENTS SCHEDULING ACQUISITION AND OPERATION OF FEED DELIVERY SYSTEMS FOR ANY APPROVED SUPPLEMENTAL TECHNOLOGY (M-47 MILESTONES). THE AIP WILL BE FINALIZED WITHIN 30 DAYS OF SUBMITTAL AND PROVIDE THAT NEGOTIATIONS WILL BE COMPLETED WITHIN ONE HUNDRED AND EIGHTY (180) DAYS OF AIP FINALIZATION, AND WILL PROVIDE THAT, IN THE EVENT THE PARTIES DO NOT REACH AGREEMENT WITHIN THIS TIMEFRAME, THE NEGOTIATIONS WILL BE RESOLVED AS A RESOLUTION OF A DISPUTE VIA FINAL DETERMINATION OF THE DIRECTOR OF ECOLOGY PURSUANT TO HFFACO ARTICLE VIII. UNLESS OTHERWISE AGREED BY THE PARTIES, THIS FINAL DETERMINATION WILL BE ISSUED WITHIN SEVEN MONTHS OF AIP FINALIZATION.</p>	
M-062-09	<p>START COLD COMMISSIONING - WASTE TREATMENT PLANT.</p> <p>DOE WILL START COLD COMMISSIONING OF ITS TANK WASTE TREATMENT PLANT. START OF COLD COMMISSIONING IS DEFINED AS INTRODUCTION OF FIRST FEED SIMULANT INTO A PROCESS BUILDING.</p>	02/28/2009

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-062-10	<p>COMPLETE HOT COMMISSIONING - WASTE TREATMENT PLANT.</p> <p>DOE WILL ACHIEVE SUSTAINED THROUGHPUT OF PRETREATMENT, LOW-ACTIVITY WASTE VITRIFICATION AND HIGH-LEVEL WASTE VITRIFICATION PROCESSES, AND DEMONSTRATE WTP TREATMENT COMPLEX AVAILABILITY TO COMPLETE TREATMENT OF NO LESS THAN 10% OF THE TANK WASTE BY MASS AND 25% OF THE TANK WASTE BY ACTIVITY BY DECEMBER 2018.</p>	01/31/2011
M-062-11	<p>SUBMIT A FINAL HANFORD TANK WASTE TREATMENT BASELINE.</p> <p>FOLLOWING THE COMPLETION OF NEGOTIATIONS REQUIRED IN M-62-08, DOE WILL MODIFY ITS DRAFT BASELINE AS REQUIRED AND SUBMIT ITS REVISED, AGREED-TO, BASELINE FOR TREATING ALL HANFORD TANK WASTE (HLW, LAW, AND TRU) BY 12/31/2028.</p>	06/30/2007
M-081-00A LEAD AGENCY: ECOLOGY	<p>COMPLETE FFTF FACILITY TRANSITION AND INITIATE THE SURVEILLANCE AND MAINTENANCE PHASE.</p> <p>COMPLETION OF FFTF TRANSITION WILL INCLUDE, BUT IS NOT LIMITED TO THE COMPLETION OF: 1) DRY CASK STORAGE OF IRRADIATED FUEL, 2) DRY STORAGE OF UNIRRADIATED AND SODIUM BONDED FUEL, 3) SODIUM DRAIN AND STORAGE 4) DEACTIVATION OF THE AUXILIARY PLANT SYSTEMS. WORK UNDER THIS MAJOR MILESTONE WILL BE ACHIEVED BY COMPLETING ALL ACTIVITIES NECESSARY TO ACHIEVE THE END POINT CRITERIA FOR PLACING THE FACILITY IN A SAFE AND STABLE SURVEILLANCE AND MAINTENANCE CONFIGURATION.</p>	2/28/2011
M-081-00A-T05	<p>COMPLETE AUXILIARY PLANT SYSTEMS DEACTIVATION.</p> <p>A MAJOR PORTION OF THE PLANT AUXILIARY SYSTEMS ARE REQUIRED TO SUPPORT HOT SODIUM CIRCULATION PRIOR TO DRAINING THE SODIUM. AS THESE SYSTEMS, AND THE BALANCE OF PLANT SYSTEMS, BECOME AVAILABLE FOR SHUTDOWN, THEY WILL BE DEACTIVATED TO A SAFE, STABLE CONDITION.</p>	2/28/2011
M-081-15	<p>SUBMIT FFTF SURVEILLANCE AND MAINTENANCE PLAN.</p> <p>DOE WILL DEVELOP A PLAN DETAILING S&amp;M ACTIVITIES TO OCCUR AT FFTF DURING THE S&amp;M PHASE. THIS PLAN WILL BE PROVIDED TO EPA AND ECOLOGY FOR REVIEW, AND APPROVAL FOR THE REGULATED UNITS AND/OR HAZARDOUS SUBSTANCES PROPOSED TO REMAIN AT THE FACILITY. THIS PLAN WILL INCLUDE DOCUMENTATION OF LISTS OF HAZARDOUS SUBSTANCES INCLUDING DANGEROUS WASTES THAT REMAIN IN THE FFTF FACILITY UPON COMPLETION OF TRANSITION BECAUSE THE HAZARDOUS SUBSTANCE: (1) CONTAINS NON-DANGEROUS WASTE COMPONENTS THAT ARE HIGHLY RADIOACTIVE, (2) IS PART OF THE PLANT STRUCTURE AND/OR (3) IS AN INTACT PIECE(S) OF EQUIPMENT.</p>	06/30/2010

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
<p>M-083-00A LEAD AGENCY: ECOLOGY</p>	<p>COMPLETE PFP FACILITY TRANSITION &amp; SELECTED DISPOSITION ACTIVITIES.</p> <p>COMPLETION OF THIS MAJOR MILESTONE INCLUDES THE FOLLOWING KEY ELEMENTS: 1) COMPLETION OF ALL ACTIVITIES NECESSARY TO ACHIEVE END POINT CRITERIA ESTABLISHED THROUGH MILESTONE M-83-20 FOR PLACING THE PFP FACILITY IN A SAFE AND STABLE S&amp;M MODE, 2) COMPLETION OF ALL ACTIVITIES DESCRIBED IN THE APPROVED M-83 SERIES INTERIM MILESTONES AND TARGET DATE; AND 3) COMPLETION OF THE BALANCE OF PFP SELECTED DISPOSITION ACTIVITIES PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	<p>09/30/2016</p>
<p>M-083-23</p>	<p>COMPLETE NEGOTIATIONS AS NEEDED FOR REVISING MILESTONES CONSISTENT WITH FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP.</p> <p>IF THE FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP DO NOT SUPPORT THE EXISTING MILESTONES LEADING TO THE PROPOSED END POINT OF A SAFE AND STABLE SLAB-ON-GRADE CONFIGURATION, AND ECOLOGY DETERMINES THAT SUCH MILESTONES ARE NOT NEEDED TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT OR TO ACHIEVE COMPLIANCE WITH APPLICABLE REGULATIONS, THE PARTIES WILL COMPLETE NEGOTIATIONS TO ESTABLISH REVISED MILESTONES CONSISTENT WITH THE DECISION DOCUMENTATION. THIS MILESTONE IS COMPLETE IF NEGOTIATIONS ARE COMPLETED BY THE INDICATED DATE OR IF ECOLOGY DETERMINES THAT NEGOTIATIONS ARE NOT REQUIRED.</p>	<p>03/31/2009</p>
<p>M-083-24</p>	<p>SUBMIT A SURVEILLANCE AND MAINTENANCE (S&amp;M) PLAN AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT SECTION 8.5.4.</p> <p>A S&amp;M PLAN WILL BE SUBMITTED TO ECOLOGY AS LEAD REGULATORY AGENCY. LEAD REGULATORY AGENCY APPROVAL WILL BE SPECIFIC TO INFORMATION AFFECTING REGULATED UNITS AND HAZARDOUS SUBSTANCES IN THE FACILITY. THE S&amp;M PLAN WILL DESCRIBE THOSE ACTIVITIES THAT WILL OCCUR DURING THE S&amp;M PERIOD AND INCLUDE THE FOLLOWING: 1) SURVEILLANCE; (2) MAINTENANCE; (3) QUALITY ASSURANCE; (4) RADIOLOGICAL CONTROLS; (5) HAZARDOUS SUBSTANCE INVENTORY, MANAGEMENT AND PROTECTION; (6) HEALTH AND SAFETY/EMERGENCY PREPAREDNESS; (7) SAFEGUARDS AND SECURITY; AND (8) COST AND SCHEDULE.</p>	<p>06/30/2012</p>
<p>M-083-41</p>	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 216-Z-9 CRIB COMPLEX.</p> <p>REMOVE THE ABOVE-GRADE PORTION OF THE 216-Z-9A, B, &amp; C BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLAN. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY</p>	<p>09/30/2010</p>

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.	
M-083-43	COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PLUTONIUM RECLAMATION FACILITY TO SUPPORT PFP DECOMMISSIONING.  DEACTIVATE AND PREPARE FOR FUTURE DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 242-Z AND 236-Z BUILDINGS.	09/30/2013
M-083-44	COMPLETE TRANSITION OF THE 234-5Z (PLUTONIUM CONVERSION FACILITY) & ZA (PLUTONIUM CONVERSION SUPPORT FACILITY), 243-Z LOW LEVEL WASTE TREATMENT FACILITY, 291-Z EXHAUST BUILDING, AND 291-Z-1 EXHAUST STACK TO SUPPORT PFP DECOMMISSIONING. DEACTIVATE AND PREPARE FOR DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 234-5Z & ZA, 243-Z, AND 291-Z AND 291-Z-1 STACK BUILDINGS.	09/30/2015
M-089-00 LEAD AGENCY: ECOLOGY	COMPLETE CLOSURE OF NON-PERMITTED MIXED WASTE UNITS IN THE 324 BUILDING REC B-CELL, REC D-CELL, AND HIGH LEVEL VAULT.	9/30/2010
M-090-00	COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES AS NECESSARY FOR STORAGE OF HANFORD SITE IHLW AND ILAW, AND DISPOSAL OF ILAW.  COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-90 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-90 MAJOR AND INTERIM MILESTONE REQUIREMENTS.  DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.	To Be Established 6 MONTHS AFTER APPROVAL OF PROJECT MANAGEMENT PLAN
M-090-11	COMPLETE CANISTER STORAGE FACILITY CONSTRUCTION.  COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS AND STARTUP ACTIVITIES NECESSARY FOR CANISTER STORAGE FACILITY RECEIPT OF ALL HANFORD SITE HIGH LEVEL WASTE CANISTERS FROM TANK WASTE TREATMENT PLANT RESULTING FROM COMPLIANCE WITH M-62-00A. FOR PURPOSES OF THIS INTERIM MILESTONE IHLW CANISTER STORAGE IS DEFINED AS THE CAPABILITY FOR STORAGE OF AT LEAST 600 IHLW CANISTERS. INTERIM MILESTONES AND ASSOCIATED TARGET DATES ESTABLISHING WORK SCHEDULES FOR ADDITIONAL IHLW CANISTER STORAGE WILL BE ESTABLISHED DURING NEGOTIATIONS REQUIRED BY MILESTONE M-62-08. FOR PERMITTING PURPOSES	08/31/2010

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>DETAIL DESIGNS OF CRITICAL SYSTEMS INCLUDES THE CANISTER STORAGE TUBE SYSTEM.</p>	
<p>M-091-00</p>	<p>COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND MODIFICATION OF PLANNED FACILITIES NECESSARY FOR RETRIEVAL, STORAGE, AND TREATMENT/PROCESSING, OF ALL HANFORD SITE RCRA MIXED AND SUSPECT MIXED LOW-LEVEL WASTE AND RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE.</p> <p>DEFINITIONS</p> <p>THE FOLLOWING DEFINITIONS APPLY TO THIS SERIES OF MILESTONES</p> <p>"SMALL CONTAINERS" AND LARGE CONTAINERS" AS USED HEREIN HAVE DIFFERENT MEANINGS DEPENDING ON WHETHER THEY ARE USED IN REFERENCE TO MLLW/LLW OR TRANSURANIC WASTE.</p> <p>WHEN REFERRING TO MLLW/LLW, SMALL CONTAINERS ARE CONTAINERS LESS THAN 10 CUBIC METERS, INCLUDING 55 GALLON DRUMS. A LARGE CONTAINER IS ANYTHING NOT DEFINED AS A SMALL CONTAINER.</p> <p>WHEN REFERRING TO TRANSURANIC WASTE, SMALL CONTAINERS ARE 55 GALLON DRUMS OR SMALLER CONTAINERS EVEN IF OVER-PACKED IN 85 GALLON DRUMS, AND NEWLY GENERATED WIPP STANDARD WASTE BOXES (SWB). A WIPP SWB IS A 1.8 CUBIC METER STEEL CONTAINER THAT IS APPROXIMATELY 0.94 METERS IN HEIGHT, 1.8 METERS IN LENGTH, AND 1.4 METERS IN WIDTH AND WAS QUALIFIED BY THE U.S. DEPARTMENT OF ENERGY (USDOE) IN 1988 AS MEETING THE U.S. DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR SPECIFICATION 7A TYPE A PACKAGINGS. A LARGE CONTAINER IS ANYTHING NOT DEFINED AS A SMALL CONTAINER.</p> <p>"CERTIFICATION" AS USED HEREIN IS DEFINED AS COMPLETION OF ALL ACTIVITIES REQUIRED FOR APPROVAL IN THE WIPP WASTE INFORMATION SYSTEM FOR ACCEPTANCE INTO WIPP FOR DISPOSAL.</p> <p>"DESIGNATION" AS USED HEREIN IS DEFINED AS THE PROCESS FOR DETERMINING: (1) WHICH CONTAINERS OF LOW-LEVEL WASTE ARE MLLW; AND, (2) WHICH CONTAINERS OF TRANSURANIC WASTE ARE MIXED TRANSURANIC WASTE (CH-TRUM OR RH-TRUM). DESIGNATION OF WASTE WILL BE PERFORMED PURSUANT TO WAC 173-303-070 THROUGH 100. THESE REGULATIONS ALLOW THE USE OF "ACCEPTABLE KNOWLEDGE," SURROGATE SAMPLING AND OTHER MEASURES FOR DESIGNATION TO MINIMIZE WORKERS' RADIATION EXPOSURE AND TO REDUCE COSTS. WHERE APPLICABLE, DOE INTENDS TO USE INFORMATION GATHERED THROUGH THE CERTIFICATION OF TRANSURANIC WASTE IN SUPPORT OF ITS DESIGNATION OF RELATED LOW-LEVEL WASTE STREAMS. WHERE APPROPRIATE, DOE WILL USE MEASURES ALLOWED UNDER STATE AND FEDERAL REGULATIONS TO PERFORM ACCURATE AND COST EFFECTIVE DESIGNATIONS OF LOW-LEVEL WASTE.</p> <p>"LOW-LEVEL WASTE" AS USED HEREIN IS DEFINED AS RADIOACTIVE WASTE THAT IS NOT SPENT FUEL, HIGH-LEVEL WASTE, TRANSURANIC WASTE, BYPRODUCT MATERIAL, OR NATURALLY OCCURRING RADIOACTIVE</p>	<p>To Be Determined*</p>



**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>MATERIAL. LOW-LEVEL WASTE INCLUDES BOTH "MIXED LOW-LEVEL WASTE" AND "NON-MIXED LOW-LEVEL WASTE." "MIXED LOW-LEVEL WASTE" (MLLW) IS LOW-LEVEL WASTE THAT IS SUBJECT TO RCRA OR 70.105 RCW. "NON-MIXED LOW-LEVEL WASTE" (LLW) IS LOW-LEVEL WASTE THAT IS NOT SUBJECT TO RCRA OR 70.105 RCW. LLW AND MLLW CAN BE CONTACT-HANDLED (CH), I.E., CH-LLW OR CH-MLLW, OR REMOTE-HANDLED (RH), I.E., RH-LLW OR RH-MLLW.</p> <p>"CONTACT HANDLED" (CH) WASTE IS A WASTE PACKAGE WITH A SURFACE DOSE RATE LESS THAN OR EQUAL TO 200 MILLIREM PER HOUR.</p> <p>"REMOTE HANDLED" (RH) WASTE IS A WASTE PACKAGE WITH A SURFACE DOSE RATE GREATER THAN 200 MILLIREM PER HOUR.</p> <p>"RETRIEVABLY STORED WASTE" (RSW) AS USED HEREIN IS DEFINED AS WASTE THAT IS OR WAS BELIEVED TO BE CONTAMINATED WITH SIGNIFICANT CONCENTRATIONS OF TRANSURANIC ISOTOPES WHEN IT WAS PLACED IN THE 218-W-4B, 218-W-4C, 218-W-3A AND 218-E-12B BURIAL GROUND TRENCHES AFTER MAY 6, 1970. DURING THE RETRIEVAL PROCESS, CONTAINERS OF RSW WILL BE SEGREGATED INTO TWO CATEGORIES: (1) CH RSW AND (2) RH RSW. SUBSEQUENT ANALYSIS AND CATEGORIZATION OF RSW PURSUANT TO CH. 70.105 RCW, THE ATOMIC ENERGY ACT, AND THE WIPP LAND WITHDRAWAL ACT WILL RESULT IN MOST OR ALL OF THIS WASTE BEING CLASSIFIED AS ONE OF THE FOLLOWING TYPES OF WASTE: CH-LLW, RH-LLW, CH-MLLW, RH-MLLW, CH-TRU, CH-TRUM, RH-TRU OR RH-TRUM. RSW DOES NOT INCLUDE WASTE IN CONTAINERS THAT HAVE DETERIORATED TO THE POINT THAT THEY CANNOT BE RETRIEVED AND STABILIZED (E.G. PLACED IN OVERPACKS) IN A MANNER THAT WOULD ALLOW THEM TO BE TRANSPORTED AND DESIGNATED WITHOUT POSING SIGNIFICANT RISKS TO WORKERS, THE PUBLIC OR THE ENVIRONMENT. WITH RESPECT TO ANY SUCH CONTAINERS, AND WITH RESPECT TO ANY RELEASE OF RSW, THE DECISION AS TO HOW TO MOVE FORWARD WILL BE DETERMINED THROUGH THE CLEANUP PROCESS SET FORTH IN RCRA, CH. 70.105 RCW, AND/OR CERCLA AS APPROPRIATE. THOSE PROCESSES MAY RESULT IN ADDITIONAL REQUIREMENTS FOR THE REMEDIATION OF SUCH WASTES.</p> <p>"CAISSON WASTE" AS USED HEREIN IS DEFINED AS RSW IN THE 218-W-4B BURIAL GROUND CAISSONS ALPHA-1 THROUGH ALPHA-4.</p> <p>"TRANSURANIC WASTE" AS USED HEREIN IS DEFINED AS WASTE THAT MEETS THE DEFINITION IN SUBSECTION (18) OF SECTION 2 OF THE WASTE ISOLATION PILOT PLANT LAND WITHDRAWAL ACT, PUB. L. 102-579. TRANSURANIC WASTE INCLUDES BOTH MIXED TRANSURANIC (TRUM)WASTE AND NON-MIXED TRANURANIC (TRU)WASTE, AND COMPRISES THE FOLLOWING CATEGORIES: CH-TRU, CH-TRUM, RH-TRU, AND RH-TRUM.</p> <p>"RETRIEVAL OF CH RSW" IS DEFINED AS UNCOVERING CH WASTES WITHIN DOE'S RSW TRENCHES, REMOVING SUCH CH WASTES FROM THE TRENCHES, AND TRANSFERING THE WASTE TO A PERMITTED AND COMPLIANT TREATMENT, STORAGE OR DISPOSAL UNIT, THE</p>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ENVIRONMENTAL RESTORATION AND DISPOSAL FACILITY (ERDF) OR FOR WASTE DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS NON-MIXED TO A STORAGE OR DISPOSAL UNIT THAT DOE DETERMINES IS APPROPRIATE.</p> <p>"RETRIEVAL OF RH RSW" IS DEFINED AS UNCOVERING RH WASTES WITHIN DOE'S RSW TRENCHES AND CAISSONS, REMOVING SUCH RH WASTES FROM THE TRENCHES AND CAISSONS, TRANSFERRING THE WASTE TO A PERMITTED AND COMPLIANT TREATMENT, STORAGE OR DISPOSAL UNIT, THE ENVIRONMENTAL RESTORATION AND DISPOSAL FACILITY (ERDF) OR FOR WASTE DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS NON-MIXED TO A STORAGE OR DISPOSAL UNIT THAT DOE DETERMINES IS APPROPRIATE.</p> <p>TO PROVIDE FURTHER CLARIFICATION OF HOW VOLUMES SHOULD BE DETERMINED IN DIFFERENT M-91 CONTEXTS, AND TO BE CONSISTENT WITH THE VOLUMES OF WASTE LISTED IN THE HANFORD SITE SOLID WASTE INVENTORY TRACKING SYSTEM (SWITS), THE FOLLOWING DESCRIPTIONS ARE PROVIDED:</p> <ul style="list-style-type: none"> <li>• VOLUMES FOR THE PURPOSES OF DETERMINING AMOUNTS RETRIEVED SHALL BE BASED ON THE VOLUME OF THE ORIGINAL CONTAINERS IN RETRIEVABLE STORAGE. FOR EXAMPLE, THE VOLUME OF A 55 GALLON RSW DRUM THAT WOULD BE COUNTED TOWARD "RETRIEVAL" WOULD BE 55 GALLONS (.208 CUBIC METERS), EVEN IF IN THE PROCESS OF RETRIEVAL THE DRUM NEEDED TO BE OVER-PACKED INTO AN 85 GALLON DRUM.</li> <li>• THE VOLUME OF MLLW "TREATED" WILL BE COUNTED AS THE RETRIEVAL VOLUME (FOR RSW) OR THE MLLW PRE-TREATMENT CONTAINER VOLUME (FOR NEWLY GENERATED AND STORED WASTE).</li> <li>• THE VOLUME OF TRANSURANIC WASTE COUNTED AS "CERTIFIED" WILL BE THE VOLUME OF THE CERTIFIED CONTAINER CONTAINING THE WASTE UNLESS THE WASTE IS COMPACTED. IN THE EVENT THAT THE WASTE IS COMPACTED, THE VOLUME OF THE PRE-COMPACTED CONTAINER WILL BE COUNTED.</li> </ul> <p>NOTE: THE REQUIREMENTS OF THIS MILESTONE WITH REGARD TO THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND MODIFICATION OF PLANNED FACILITIES NECESSARY FOR TREATMENT/PROCESSING OF RCRA MIXED AND SUSPECT MIXED TRANSURANIC WASTE APPLY AS SET FORTH IN THE SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.  *NOTE: THE M-91 SERIES MILESTONES (INCLUDING THIS NOTE) DO NOT INCLUDE ANY REQUIREMENTS TO ESTABLISH SCHEDULES FOR THE MANAGEMENT OF PRE-1971 TRU/TRUM. SCHEDULES FOR THE MANAGEMENT OF PRE-1971 TRU/TRUM WILL BE ESTABLISHED, PURSUANT TO APPLICABLE PROVISIONS OF THE HFFACO OTHER THAN THE M-91 SERIES MILESTONES, FOLLOWING THE ISSUANCE OF OPERABLE UNIT RECORDS OF DECISION (RODS).</p>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-091-01	<p>COMPLETE THE ACQUISITION OF CAPABILITIES AND/OR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR RETRIEVAL, DESIGNATION, STORAGE, AND TREATMENT/PROCESSING PRIOR TO DISPOSAL OF ALL HANFORD SITE POST 1970 RH TRUM AND SUSPECT RH TRUM, TRUM IN LARGE CONTAINERS, AND SUSPECT TRUM IN LARGE CONTAINERS.</p> <p>NOTE: THE REQUIREMENTS OF THIS MILESTONE WITH REGARD TO COMPLETING THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR TREATMENT/PROCESSING OF HANFORD SITE POST 1970 RH TRUM AND SUSPECT RH TRUM, TRUM IN LARGE CONTAINERS, AND SUSPECT TRUM IN LARGE CONTAINERS APPLY AS SET FORTH IN THE SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p>	06/30/2012
M-091-03	<p>SUBMIT REVISION OF THE HANFORD SITE TRUM AND MIXED LOW-LEVEL WASTE PROJECT MANAGEMENT PLAN (PMP) TO ECOLOGY PURSUANT TO, AND IN COMPLIANCE WITH THE REQUIREMENTS OF AGREEMENT SECTION 11.5. REVISIONS OF THE PMP SHALL ADDRESS RCRA MIXED AND SUSPECT MIXED TRANSURANIC AND LOW LEVEL WASTE AND WILL CONSIDER AND EXPRESSLY EVALUATE THE IMPACT ON M-91 RETRIEVAL, TREATMENT AND PROCESSING CAPABILITIES, THAT MAY RESULT FROM RETRIEVAL, TREATMENT AND/OR PROCESSING OF ANY OTHER TRANSURANIC OR SUSPECT TRANSURANIC WASTE INCLUDING BUT NOT LIMITED TO OFF-SITE TRANSURANIC WASTE AND HANFORD SITE TRANSURANIC WASTE GENERATED AFTER 1/1/03.</p> <p>ANNUAL REVISIONS OF THE PMP WILL BE SUBMITTED ON JUNE 30 EVERY YEAR STARTING IN 2008 AND CONTINUING UNTIL THE M-91 MILESTONES ARE COMPLETED. THE PMP REVISIONS SHALL INCLUDE PLANS AND SCHEDULES TO MEET ALL THE REQUIREMENTS SET FORTH IN THE M-91 MILESTONE SERIES. EACH REVISION OF THE M-91-03 PMP SHALL, UPON APPROVAL BY ECOLOGY, SUPERSEDE PREVIOUS M-91-03 PMPs. EACH REVISION IS A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THIS AGREEMENT.</p> <p>THE PMP WILL INCLUDE A DESCRIPTION OF COMPLETED AND SCHEDULED WORK RELATING TO RH WASTE AND LARGE CONTAINERS OF RH AND CH WASTE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE M-91 MILESTONE SERIES. THE PMP WILL DOCUMENT WORK COMPLETED DURING THE PREVIOUS FEDERAL FISCAL YEAR AND WORK SCHEDULED FOR THE COMING FISCAL YEAR. THE PMP SHALL IDENTIFY BY CITATION ALL PUBLICLY AVAILABLE REPORTS DESCRIBING PERTINENT PROJECT ISSUES AND ACCOMPLISHMENTS, AND SHALL IDENTIFY ANTICIPATED PROJECTS FOR THE COMING YEAR.</p> <p>WITH RESPECT TO RH MIXED WASTE AND MIXED WASTE IN LARGE CONTAINERS, THE PMP SUBMITTED YEARLY WILL SPECIFICALLY INCLUDE AT LEAST ONE MEASURABLE ACTION(S) TO BE TAKEN BY DOE TO ACQUIRE CAPABILITIES TO MANAGE SUCH WASTES.</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>THE PMP SUBMITTED ON 12/31/2003 WILL NOT BE REQUIRED TO CONTAIN PLANS AND SCHEDULES FOR THE LDR TREATMENT (OR CERTIFICATION IN LIEU OF SUCH TREATMENT AS PROVIDED FOR IN M-91-42 AND M-91-44) OF TRUM WASTE. DOE SHALL REVISE THE PMP TO INLCUDE PLANS AND SCHEDULES FOR LDR TREATMENT (OR CERTIFICATION IN LIEU OF SUCH TREATMENT AS PROVIDED IN M-91-42 AND M-91-44) OF TRUM WASTE BY 12/28/06.</p> <p>PMP REVISIONS WILL BE SUBMITTED TO ECOLOGY FOR REVIEW AND APPROVAL AS PRIMARY DOCUMENTS PURSUANT TO AGREEMENT ACTION PLAN SECTION 9.2.1. DOE SHALL IMPLEMENT THE PLAN AS APPROVED.</p> <p>NOTE: WITH RESPECT TO PMP REVISIONS, THE REQUIREMENTS OF THIS MILESTONE CONCERNING PMP REVISIONS TO ADDRESS TRUM SHALL APPLY AS SET FORTH IN THE ACCOMPANYING SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p>	
M-091-40	<p>REGARDING THE RETRIEVAL AND DESIGNATION OF CONTACT-HANDLED (CH) RETRIEVABLY STORED WASTE (RSW) AND TREATMENT OF SUCH WASTES DESIGNATED AS MIXED TO MEET APPLICABLE FEDERAL AND STATE LAND DISPOSAL RESTRICTION (LDR) STANDARDS (ALL CH RSW WASTE REGARDLESS OF PACKAGE SIZE):</p> <p>1. DOE SHALL RETRIEVE ALL CH-RSW WITHIN BURIAL GROUNDS 218-W-4C, 218-W-4B, 218-W-3A, AND 218-E-12B BY DECEMBER 31, 2010. IN ACHIEVING THIS RETRIEVAL REQUIREMENT, DOE SHALL FIRST INITIATE RETRIEVAL AT ITS BURIAL GROUND 218-W-4C NO LATER THAN NOVEMBER 15, 2003, AND SHALL RETRIEVE RSW AT THE FOLLOWING RATES :</p> <ul style="list-style-type: none"> <li>- 1,200 CUBIC METERS (CUMULATIVE) BY 12/31/04,</li> <li>- 2,700 CUBIC METERS (CUMULATIVE) BY 12/31/05,</li> <li>- 4,700 CUBIC METERS (CUMULATIVE) BY 12/31/06,</li> <li>- 7,200 CUBIC METERS (CUMULATIVE) BY 12/31/07,</li> <li>- 9,700 CUBIC METERS (CUMULATIVE) BY 12/31/08,</li> <li>- 12,200 CUBIC METERS (CUMULATIVE) BY 12/31/09,</li> <li>- COMPLETE RETRIEVAL OF CH-RSW BY 12/31/2010.</li> </ul> <p>CONCURRENT RETRIEVAL ACTIONS CAN BE CONDUCTED IN MULTIPLE BURIAL GROUNDS. IF SPECIFIC LARGE CONTAINERS CANNOT BE REMOVED FROM A TRENCH WITHIN 60 DAYS OF BEING EXPOSED DOE SHALL NOTIFY ECOLOGY WITHIN THE 60 DAY PERIOD. ECOLOGY WILL INSPECT THE CONTAINER AND IMPOSE SPECIFIC CONDITIONS FOR THAT WASTE CONTAINER TO PREVENT RELEASES TO THE ENVIRONMENT. IN DETERMINING SUCH CONDITIONS ECOLOGY WILL CONSIDER AMONG OTHER FACTORS; WHETHER THE WASTE CONTAINER HAS BEEN INSPECTED AND FOUND TO BE INTACT AND NOT POSING A THREAT TO HUMAN HEALTH AND THE ENVIRONMENT(OR RE-PACKAGED TO PREVENT RELEASE TO THE ENVIRONMENT)AND EXISTING DOCUMENTATION CONCERNING THE PRESENCE OF FREE LIQUIDS.</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>2. AS RSW RETRIEVAL PROCEEDS, DOE SHALL SAMPLE AND ANALYZE TRENCH SUBSTRATES WITH THE PURPOSES OF DETERMINING WHETHER OR NOT RELEASES OF CONTAMINANTS TO THE ENVIRONMENT HAVE OCCURRED, AND, IF SO, THE NATURE AND EXTENT OF CONTAMINATION.</p> <p>SUCH SAMPLING AND ANALYSIS SHALL BE IN ACCORDANCE WITH ECOLOGY APPROVED SAMPLING AND ANALYSIS PLANS (SAP). THE SAP WILL BE DEVELOPED USING A DQO PROCESS TO ESTABLISH SAMPLING REQUIREMENTS FOR SAMPLING OF BURIAL GROUND VENT RISERS AND SUBSTRATE SOILS. ECOLOGY APPROVED THE 218-W-4C SAP SEPTEMBER 12, 2003, THE 218-E-12B SAP JANUARY 20, 2005, THE 218-W-3A SAP JUNE 15, 2006, AND THE 218-W-4B SAP JULY 25, 2006. DOE WILL IMPLEMENT APPROVED SAPS, AS A REQUIREMENT OF THIS MILESTONE, DURING RETRIEVAL OF ALL RSW.</p> <p>THE RESULTS OF BURIAL GROUND VENT AND SUBSTRATE SAMPLING AND ANALYSIS PURSUANT TO APPROVED SAPS SHALL BE SUBMITTED TO ECOLOGY BY LETTER REPORTS QUARTERLY. SUCH REPORTS SHALL DOCUMENT RESULTS AND METHODOLOGIES, SHALL ASSESS RESULTS AGAINST REGULATORY REQUIREMENTS, SHALL INCLUDE A DESCRIPTION (OR DESCRIPTIONS) OF DOCUMENTED CONTAMINANT RELEASES TO THE ENVIRONMENT, AND SHALL DESCRIBE PLANNED AND/OR SCHEDULED ADDITIONAL WORK.</p> <p>3. WITHIN 90 DAYS OF RETRIEVAL, DOE SHALL DESIGNATE ALL CH RSW RETRIEVED FROM THE RSW TRENCHES PURSUANT TO WAC 173-303-070 THROUGH 100, OR SHALL SPECIFICALLY IDENTIFY INDIVIDUAL LARGE CONTAINERS THAT CANNOT BE DESIGNATED BASED ON AVAILABLE PROCESS KNOWLEDGE. FOR THE LARGE CONTAINERS DETERMINED TO BE LOW- LEVEL WASTE THAT CANNOT BE DESIGNATED BASED ON THE AVAILABLE PROCESS KNOWLEDGE, DOE SHALL DESIGNATE SAID WASTE ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2008. FOR LARGE CONTAINERS DETERMINED TO BE TRANSURANIC WASTE THAT CANNOT BE DESIGNATED BASED ON THE AVAILABLE PROCESS KNOWLEDGE, DOE SHALL DESIGNATE SAID WASTE ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2012.</p> <p>4. FOR ALL RETRIEVED CH-RSW DETERMINED TO BE LOW LEVEL WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-42(2) AND M-91-43(3).</p> <p>5. IN REGARD TO THE CARBON TETRACHLORIDE VAPOR PLUME IN THE VADOSE ZONE IN THE VICINITY OF TRENCH 4 IN BURIAL GROUND 218-W-4C, DOE SHALL:</p> <ul style="list-style-type: none"> <li>• START VAPOR EXTRACTION BY NOVEMBER 15, 2003, TO</li> </ul>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>REDUCE CARBON TETRACHLORIDE VAPORS.</p> <ul style="list-style-type: none"> <li>• START RETRIEVAL IN TRENCH 4 BY JANUARY 15, 2004</li> <li>• COMPLETE RETRIEVAL OF TRENCH 4 BY DECEMBER 31, 2006. (WITH THE EXCEPTION OF THOSE LARGE CONTAINERS THAT THE PARTIES HAVE AGREED, IN WRITING, MAY BE RETRIEVED OUT OF SEQUENCE.)</li> </ul> <p>RETRIEVAL WILL CONTINUE IN TRENCH 4 UNTIL IT IS COMPLETE. VAPOR EXTRACTION AND RETRIEVAL OPERATIONS IN TRENCH 4 WILL BE INTEGRATED BY DOE TO MINIMIZE POTENTIAL WORKER EXPOSURE TO CARBON TETRACHLORIDE VAPORS, AND TO MITIGATE ANY POSSIBLE RELEASES OF CARBON TETRACHLORIDE FROM TRENCH 4 CONTAINERS.</p> <p>6. FOR ALL RETRIEVED CH-RSW DETERMINED TO BE TRANSURANIC WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN COMPLIANCE WITH THE SCHEDULE IN M-91-42(4) AND M-91-44(3).</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF CH TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP. IF DOE CHOOSES TO CERTIFY IN LIEU OF TREATMENT, IT MAY MEET THE VOLUME REQUIREMENTS SPECIFIED IN THIS MILESTONE FOR ANY GIVEN YEAR BY CERTIFYING CH TRU OR CH TRUM. NOTIFICATION OF CERTIFICATION IN LIEU OF TREATMENT WILL BE PROVIDED ANNUALLY AS PART OF THE CERTIFICATION VOLUME COMPLETION LETTER.</p> <p>NOTE: THE REQUIREMENTS OF ITEM 6 OF THIS MILESTONE APPLY AS SET FORTH IN THE SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p> <p>7. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-41	<p>REGARDING THE RETRIEVAL AND DESIGNATION OF REMOTE HANDLED (RH) RSW (ALL RSW RH WASTE REGARDLESS OF PACKAGE SIZE, INCLUDING THE 200 AREA CAISSONS), AND LDR TREATMENT OF SUCH WASTES DETERMINED TO BE MIXED.</p> <p>1. DOE SHALL INITIATE FULL SCALE RETRIEVAL OF RH RSW BY JANUARY 1, 2011. RETRIEVAL OF NON-CAISSON RH RSW SHALL BE COMPLETED BY DECEMBER 31, 2014. RETRIEVAL OF THE 200 AREA CAISSONS RH RSW IN THE 218-W-4B BURIAL GROUND SHALL BE COMPLETED BY DECEMBER 31, 2018.</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>2. DOE SHALL DESIGNATE ALL RETRIEVED RH RSW PURSUANT TO WAC 173-303-070 THROUGH 100, WITHIN 90 DAYS OF RETRIEVAL.</p> <p>3. FOR ALL RETRIEVED RH-RSW DETERMINED TO BE LOW-LEVEL WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTE TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-43(3).</p> <p>4. FOR ALL RETRIEVED RH-RSW DETERMINED TO BE TRANSURANIC WASTE AND DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100, AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS IN ACCORDANCE WITH THE SCHEDULE PROVIDED IN MILESTONE M-91-44(3). DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF SUCH WASTES FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP.</p> <p>NOTE: THE REQUIREMENTS OF ITEM 4 OF THIS MILESTONE APPLY AS SET FORTH IN THE SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p> <p>5. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-42	<p>REGARDING SMALL CONTAINERS OF: (1) NEWLY GENERATED CH WASTE; AND (2) CH RSW; AND (3) CH WASTE CURRENTLY IN ABOVE-GROUND STORAGE.</p> <p>1. DOE SHALL DESIGNATE ALL NEWLY GENERATED CH WASTE AT THE POINT OF GENERATION. SUCH DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100.</p> <p>2. THERE WERE 5,066 CUBIC METERS OF CH-MLLW IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02 (AS IDENTIFIED IN DOE HFFACO MILESTONE M-26-01 LDR REPORT MLLW TREATABILITY GROUPS MLLW-02 THROUGH MLLW-10, EXCLUDING MLLW-07) THAT HAD NOT BEEN TREATED TO MEET LDR REQUIREMENTS. (THIS VOLUME DOES NOT INCLUDE 600 CUBIC METERS OF WASTE REQUIRING THERMAL TREATMENT, AS THAT WASTE HAS SEPARATE TREATMENT REQUIREMENTS PER M-91-12 AND M-91-12A). APPROXIMATELY 4422 CUBIC METERS OF MLLW SUBJECT TO M-91-42 WAS TREATED BETWEEN 12/31/02 AND 12/31/05. DOE'S 2002 LDR REPORT ESTIMATED GENERATION OF AN ADDITIONAL ANNUAL VOLUME OF APPROXIMATELY 330 CUBIC METERS OF CH-MLLW (AS WASTE TYPES IDENTIFIED IN DOE</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>HFFACO MILESTONE M-26-01 LDR REPORT MLLW TREATABILITY GROUPS MLLW-02 THROUGH MLLW-10, EXCLUDING MLLW-07). IT WAS ALSO ESTIMATED IN 2002 THAT DOE WOULD RETRIEVE APPROXIMATELY 800 CUBIC METERS OF CH-MLLW BY 2010. BASED ON THE CY2005 LDR SUMMARY REPORT AS OF 12/31/05 FOR MLLW SUBJECT TO M-91-42, THERE WERE APPROXIMATELY 2100 CUBIC METERS IN PERMITTED STORAGE, AND 280 CUBIC METERS FORECAST TO BE GENERATED BY THE END OF CY2009.</p> <p>ACCORDING TO THE M-91-PMP (HNF-19169 REV 2) APPROXIMATELY 2550 CUBIC METERS OF M-91-42 MLLW WAS EXPECTED TO BE RETRIEVED BETWEEN 12/31/05 AND 12/31/09. IN ADDITION TO MEETING THE REQUIREMENTS OF M-91-12 AND M-91-12A, DOE SHALL TREAT THE WASTE DESCRIBED ABOVE TO MEET LDR REQUIREMENTS ON A SCHEDULE MEETING, AT MINIMUM, THE FOLLOWING CUMULATIVE TOTALS BASED ON A START DATE OF 12/31/02:</p> <ul style="list-style-type: none"> <li>A. 1630 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/04,</li> <li>B. 3260 CUBIC METERS BY (CUMULATIVE) SHALL BE TREATED BY 12/31/05,</li> <li>C. 4890 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/06,</li> <li>D. 6520 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/07,</li> <li>E. 7,220 CUBIC METERS (CUMULATIVE) SHALL BE TREATED BY 12/31/08, AND</li> <li>F. COMPLETE TREATMENT OF ALL CH-MLLW (5066 CUBIC METERS IN STORAGE AS OF 12/31/02 AS DESCRIBED ABOVE, AND RETRIEVED CH-MLLW AND NEWLY GENERATED CH-MLLW IN THE TREATABILITY GROUPS DESCRIBED ABOVE, AS OF 6/30/09), BY 12/31/09.)</li> </ul> <p>IF CH-MLLW IN THE TREATABILITY GROUPS SUBJECT TO THIS MILESTONE GENERATED DURING THE PERIOD FROM 12/31/02 THROUGH 6/30/09 IS TREATED TO LDR STANDARDS PRIOR TO DELIVERY TO STORAGE OR DISPOSAL, THE ORIGINAL PRE-TREATMENT VOLUME OF THAT WASTE SHALL BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. EXCEPT FOR WASTE ALREADY IN PERMITTED STORAGE AS OF 12/31/02, TREATMENT OF CERCLA WASTE WILL NOT BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. RSW DETERMINED TO BE MLLW IN THE TREATABILITY GROUPS COVERED BY THIS MILESTONE WILL BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE WHEN TREATED.</p> <p>IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-MLLW COVERED BY THIS MILESTONE IS LOWER THAN THE ESTIMATED VOLUMES ANTICIPATED BY THESE MILESTONES DOE WILL ONLY BE REQUIRED TO TREAT THE VOLUME OF WASTE GENERATED, RETRIEVED AND/OR IN STORAGE. IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-MLLW COVERED BY THIS MILESTONE IS SIGNIFICANTLY MORE THAN THE</p>	



**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ESTIMATED VOLUMES THE PARTIES' MAY AGREE TO REVISE THESE REQUIREMENTS.</p> <p>3. AFTER JUNE 30, 2009, DOE SHALL TREAT TO MEET LDR TREATMENT REQUIREMENTS ALL SMALL CONTAINERS OF NEWLY GENERATED CH-MLLW CONTAINING LDR CONSTITUENTS IN COMPLIANCE WITH WAC 173-303-140.</p> <p>4. THERE ARE APPROXIMATELY 440 CUBIC METERS OF CH-TRUM IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02. DOE'S CY 2002 LDR REPORT ESTIMATES THAT IT WILL GENERATE AN ADDITIONAL ANNUAL VOLUME OF APPROXIMATELY 220 CUBIC METERS OF CH-TRUM AND DOE ESTIMATES THEY WILL RETRIEVE APPROXIMATELY 1600 CUBIC METERS OF CH-TRUM BY 2010. CONSIDERING THESE ESTIMATES AND THE CONSIDERABLE UNCERTAINTY ASSOCIATED WITH THEM DOE SHALL TREAT THE WASTE CATEGORIES DESCRIBED ABOVE TO MEET LDR REQUIREMENTS ON THE FOLLOWING SCHEDULE:</p> <ul style="list-style-type: none"> <li>- 700 CUBIC METERS BY 12/31/04;</li> <li>- 1,800 CUBIC METERS (CUMULATIVE) BY 12/31/05;</li> <li>- 3,000 CUBIC METERS (CUMULATIVE) BY 12/31/06;</li> <li>- 4,200 CUBIC METERS (CUMULATIVE) BY 12/31/07;</li> <li>- 600 CUBIC METERS BETWEEN 10/1/2007 AND 9/30/2008;</li> <li>- 6,600 CUBIC METERS (CUMULATIVE) BY 12/31/09;</li> <li>- 7,600 CUBIC METERS (CUMULATIVE) BY 12/31/10;</li> <li>- 8,600 CUBIC METERS (CUMULATIVE) BY 12/31/11.</li> </ul> <p>IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-TRUM COVERED BY THIS MILESTONE IS LOWER THAN THE ESTIMATED VOLUMES ANTICIPATED BY THESE MILESTONES DOE WILL ONLY BE REQUIRED TO TREAT THE VOLUME OF WASTE GENERATED, RETRIEVED AND/OR IN STORAGE. IF THE ACTUAL VOLUME OF NEWLY GENERATED OR RETRIEVED CH-TRUM COVERED BY THIS MILESTONE IS SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES THE PARTIES' MAY AGREE TO REVISE THESE REQUIREMENTS.</p> <p>5. FOR CH TRANSURANIC WASTE NEWLY GENERATED ON OR AFTER 7/1/11 THAT IS DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH 100 AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT SUCH WASTES TO MEET LDR REQUIREMENTS PURSUANT TO WAC 173-303-140 WITHIN ONE YEAR OF GENERATION.</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF CH TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP. IF DOE CHOOSES TO CERTIFY IN LIEU OF TREATMENT, IT MAY MEET THE VOLUME REQUIREMENTS SPECIFIED IN THIS MILESTONE FOR ANY GIVEN YEAR BY CERTIFYING CH TRU OR CH</p>	

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>TRUM, PROVIDED THAT ALL CH TRUM IN PERMITTED STORAGE AS OF 7/1/11 IS TREATED TO MEET LDR REQUIREMENTS OR IS CERTIFIED BY 12/31/2011.</p> <p>NOTE: THE REQUIREMENTS OF ITEMS 4 AND 5 OF THIS MILESTONE APPLY AS SET FORTH IN THE SETTLEMENT AGREEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p> <p>NOTE: IN THE EVENT THAT ITEMS 4 OR 5 BECOME APPLICABLE, AMOUNTS OF CH TRUM CERTIFIED BETWEEN 12/31/02 AND THE DATE ON WHICH ITEMS 4 OR 5 BECOME APPLICABLE SHALL COUNT TOWARDS SATISFACTION OF THE OBLIGATIONS IN ITEMS 4 AND 5.</p> <p>6. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-43	<p>REGARDING: MLLW TREATABILITY GROUP MLLW-07 WASTE AS DEFINED IN THE LDR REPORT WHICH INCLUDES THE MLLW PORTION OF: (1) NEWLY GENERATED RH LOW-LEVEL WASTE; (2) NEWLY GENERATED LARGE CONTAINERS OF CH LOW-LEVEL WASTE; (3) RH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND STORAGE; (4) LARGE CONTAINERS OF CH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND STORAGE; AND (5) RH OR LARGE CONTAINER CH LOW-LEVEL WASTE FROM RETRIEVAL.</p> <p>THERE WERE 81 CUBIC METERS OF RH-MLLW IN PERMITTED STORAGE AT DOE'S CENTRAL WASTE STORAGE COMPLEX (CWC) AND ELSEWHERE AT HANFORD AS OF 12/31/02 (AS IDENTIFIED IN DOE HFFACO MILESTONE M-26-01 LDR REPORT MLLW TREATABILITY GROUPS MLLW-07) THAT HAS NOT BEEN TREATED TO MEET LDR REQUIREMENTS. DOE'S 2002 LDR REPORT ESTIMATED THAT DOE WOULD GENERATE AN ADDITIONAL YEARLY VOLUME OF 280 CUBIC METERS OF WASTE IN THIS TREATABILITY GROUP. IT WAS ALSO ESTIMATED IN 2002 THAT DOE WOULD RETRIEVE APPROXIMATELY 800 CUBIC METERS BY 2010.</p> <p>PER THE 2005 LDR REPORT, AS OF 12/31/05 THERE WERE APPROXIMATELY 305 CUBIC METERS OF RH AND LARGE CONTAINER MLLW (LDR TREATABILITY GROUP MLLW-07) IN PERMITTED STORAGE. APPROXIMATELY 66 CUBIC METERS OF THE RH AND LARGE CONTAINER MLLW WAS FORECAST TO BE GENERATED BETWEEN 12/31/05 AND 12/31/11. IN ADDITION, APPROXIMATELY 2728 CUBIC METERS OF MLLW-07 WAS EXPECTED TO BE OBTAINED FROM RETRIEVAL BETWEEN 12/31/05 AND 12/31/11.</p> <p>1. DOE SHALL DESIGNATE ALL RH LOW-LEVEL WASTE AND LARGE CONTAINERS OF CH LOW-LEVEL WASTE CURRENTLY IN ABOVE-GROUND PERMITTED STORAGE (AS OF JUNE 30, 2003) ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2008.</p> <p>2. DOE SHALL DESIGNATE ALL NEWLY GENERATED RH LOW-LEVEL WASTE AND NEWLY GENERATED LARGE CONTAINERS OF CH-LOW-LEVEL WASTE AT THE POINT OF GENERATION. SUCH</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100.</p> <p>3. DOE SHALL BEGIN TREATING RH MLLW AND LARGE CONTAINERS OF CH MLLW TO MEET LDR TREATMENT REQUIREMENTS AT A MINIMUM RATE OF 300 CUBIC METERS PER YEAR BEGINNING NO LATER THAN JUNE 30, OF 2008. HOWEVER, TREATMENT MAY BE STARTED EARLY SUCH THAT ANY TREATABILITY GROUP MLLW-07 WASTE TREATED BETWEEN 12/31/02 AND 6/30/09 SHALL COUNT TOWARD ACHIEVING THE FIRST 300 CUBIC METERS OF TREATMENT TO BE COMPLETED BY 6/30/09. IF THERE ARE NOT 300 CUBIC METERS OF RH MLLW AND LARGE CONTAINERS OF CH MLLW IN STORAGE IN ANY GIVEN YEAR, THIS MILESTONE REQUIRES THAT DOE TREAT ONLY THAT AMOUNT THAT IS IN STORAGE. IF RH-MLLW IN THE TREATABILITY GROUPS SUBJECT TO THIS MILESTONE GENERATED DURING THE PERIOD FROM 12/31/02 THROUGH 6/30/09 IS TREATED TO LDR STANDARDS PRIOR TO DELIVERY TO STORAGE OR DISPOSAL, THE ORIGINAL PRE-TREATMENT VOLUME OF THAT WASTE SHALL BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. EXCEPT FOR WASTE ALREADY IN PERMITTED STORAGE AS OF 12/31/02, TREATMENT OF CERCLA WASTE WILL NOT BE COUNTED TOWARD MEETING THE VOLUME REQUIREMENTS OF THIS MILESTONE. IF ACTUAL VOLUMES OF NEWLY GENERATED OR RETRIEVED RH AND LARGE CONTAINER MLLW ARE SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES, THIS MILESTONE WILL BE REVISED TO REFLECT ACTUAL VOLUMES.</p> <p>4. EACH ELEMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p>	
M-091-44	<p>REGARDING: (1) NEWLY GENERATED RH TRANSURANIC WASTE; (2) NEWLY GENERATED LARGE CONTAINERS OF CH-TRANSURANIC WASTE; (3) RH TRANSURANIC WASTE CURRENTLY IN ABOVE GROUND STORAGE; 4) LARGE CONTAINERS OF CH TRANSURANIC WASTE CURRENTLY IN ABOVE-GROUND STORAGE; AND (5) LARGE CONTAINER OR RH TRANSURANIC WASTE FROM RETRIEVAL;</p> <p>1. DOE SHALL DESIGNATE ALL RH TRANSURANIC WASTE AND LARGE CONTAINERS OF CH TRANSURANIC WASTE CURRENTLY IN ABOVE-GROUND STORAGE (AS OF JUNE 30, 2003) ACCORDING TO THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100, BY DECEMBER 31, 2012.</p> <p>2. DOE SHALL DESIGNATE ALL NEWLY GENERATED RH TRANSURANIC WASTE AND LARGE CONTAINERS OF TRANSURANIC WASTE AT THE POINT OF GENERATION. SUCH DESIGNATION SHALL COMPLY WITH THE REQUIREMENTS OF WAC 173-303-070 THROUGH 100.</p> <p>3. DOE SHALL BEGIN TREATING RH TRUM AND LARGE CONTAINERS OF CH TRUM TO MEET LDR TREATMENT REQUIREMENTS AT A MINIMUM RATE OF 300 CUBIC METERS PER YEAR BEGINNING NO LATER THAN JUNE 30, 2012. IF THERE ARE NOT 300 CUBIC METERS OF RH TRUM AND LARGE CONTAINERS OF CH TRUM IN STORAGE IN</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>ANY GIVEN YEAR, THIS MILESTONE REQUIRES THAT DOE TREAT ONLY THAT AMOUNT THAT IS IN STORAGE. IF ACTUAL VOLUMES OF NEWLY GENERATED OR RETRIEVED RH TRUM AND LARGE CONTAINER TRUM ARE SIGNIFICANTLY MORE THAN THE ESTIMATED VOLUMES, THIS MILESTONE WILL BE REVISED TO REFLECT ACTUAL VOLUMES.</p> <p>4. AS TO NEWLY GENERATED RH TRUM GENERATED AFTER 12/31/18 THAT IS DESIGNATED IN ACCORDANCE WITH WAC 173-303-070 THROUGH -100 AS MIXED AND AS CONTAINING LDR RESTRICTED CONSTITUENTS, DOE SHALL TREAT OR CERTIFY IN LIEU OF TREATMENT TO MEET LDR REQUIREMENTS WITHIN ONE YEAR OF GENERATION.</p> <p>DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF CH TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP.</p> <p>5. DOE MAY CHOOSE TO COMPLETE CERTIFICATION OF RH AND LARGE CONTAINER TRANSURANIC WASTE FOR DISPOSAL AT WIPP IN LIEU OF LDR TREATMENT, PROVIDED THAT ECOLOGY IS NOTIFIED IN WRITING OF SUCH COMPLETION OF CERTIFICATION, AND ONLY IF, AS OF THE TIME OF CERTIFICATION, SUCH WASTE IS EXEMPT FROM LDR TREATMENT REQUIREMENTS WHEN DISPOSED AT WIPP.</p> <p>NOTE: THE REQUIREMENTS OF ITEMS 3,4, AND 5 OF THIS MILESTONE APPLY AS SET FORTH IN THE SETTLEMENT BETWEEN THE UNITED STATES AND THE STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, DATED OCTOBER 23, 2003.</p> <p>6. EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.</p> <p>7. IF DOE CHOOSES TO CERTIFY IN LIEU OF TREATMENT, (PER REQUIREMENTS IN M-91-44 (4)) IT MAY MEET THE VOLUME REQUIREMENTS SPECIFIED IN M-91-44 FOR ANY GIVEN YEAR BY CERTIFYING RH OR LARGE CONTAINER TRU OR RH OR LARGE CONTAINER TRUM. NOTIFICATION OF CERTIFICATION IN LIEU OF TREATMENT WILL BE PROVIDED ANNUALLY AS PART OF THE CERTIFICATION VOLUME COMPLETION LETTER.</p>	
M-092-00	COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR THE STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE CESIUM AND STRONTIUM CAPSULES (Cs/Sr), BULK SODIUM (Na), AND 300 AREA SPECIAL WASTE (SCW).	To Be Established BY OCTOBER 1998

**Table D. Major and Interim Milestones and Target Dates**

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-092-05	<p>DETERMINE DISPOSITION PATH AND ESTABLISH INTERIM AGREEMENT MILESTONES FOR HANFORD SITE CS/SR CAPSULES.</p> <p>DOE WILL ASSESS THE VIABILITY OF DIRECT DISPOSAL OF THE HANFORD CS/SR CAPSULES AT THE NATIONAL HIGH-LEVEL WASTE REPOSITORY AND PROVIDE A SCHEDULE LEADING TO ITS DISPOSITION. IF DOE CONCLUDES THAT DIRECT DISPOSAL IS A VIABLE AND PREFERRED ALTERNATIVE TO VITRIFICATION, DOE WILL SUBMIT TO ECOLOGY SPECIFIC DOCUMENTATION JUSTIFYING ITS CONCLUSION, WITH A PROPOSED MILESTONE CHANGE REQUEST ESTABLISHING ENFORCEABLE AGREEMENT MILESTONES FOR DISPOSITIONING HANFORD CS/SR CAPSULES.</p>	06/30/2017
M-092-09	ESTABLISH MILESTONES AND/OR TARGET DATES IF NEEDED FOR ACQUISITION OF NEW FACILITIES, MODIFICATIONS OF EXISTING FACILITIES, AND /OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM.	09/30/2018
M-092-16	COMPLETE REMOVAL AND TRANSFER, AND INITIATE STORAGE OF PHASE III 300 AREA SCW WASTE AND MATERIALS. PHASE III INVENTORY WILL CONSIST OF ANY REMAINING 300 AREA SCW WASTES AND MATERIALS.	9/30/2015
M-093-00 LEAD AGENCY: DUAL	COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS. 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS CONSIST OF THE FOLLOWING: 105-D, 105-DR, 105-H, AND 105/109-N (ECOLOGY LEAD), AND 105-B, 105-C, 105-F, 105-KE, AND 105-KW (EPA LEAD).	To Be Determined
M-093-20	COMPLETE 105-N REACTOR INTERIM SAFE STORAGE.	09/30/2012
M-093-22	COMPLETE 105-KE AND 105-KW REACTOR INTERIM SAFE STORAGE.	09/30/2011
M-094-00	<p>COMPLETE DISPOSITION OF 300 AREA SURPLUS FACILITIES TO BE DEFINED AS THE 220 FACILITIES LISTED IN THE HANFORD RIVER CORRIDOR CLOSURE CONTRACT SOLICITATION #DE-RP06-04RL14655.</p> <p>COMPLETION OF FACILITY DISPOSITION IS DEFINED AS THE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. THE CLEANUP OF 300-FF-2 WASTE SITES ASSOCIATED WITH 300 AREA SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH TRI-PARTY AGREEMENT MAJOR MILESTONE M-016-00B.</p>	09/30/2015
M-094-03	COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1).	09/30/2010
M-094-07	COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 6 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720; TO INCLUDE THE 306E, 306W, 3720 AND 305B FACILITIES.	12/30/2009

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	
M-094-08	<p>COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 12 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720.</p> <p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	12/31/2011
M-094-09	<p>COMPLETE THE SELECTED REMOVAL AND/OR REMEDIAL ACTIONS THAT ARE SELECTED FOR 15 OF THE FOLLOWING 19 HIGH PRIORITY FACILITIES: 305B, 306E, 306W, 307 RETENTION BASINS, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 TRENCH AND 3720; TO INCLUDE THE 323 FACILITY AND THE 307 TRENCH.</p> <p>THE 307 TRENCH (ALSO KNOWN AS THE 316-3 WASTE SITE) IS A CANDIDATE WASTE SITE. COMPLETION OF THIS MILESTONE COMMITMENT FOR THE 307 TRENCH INCLUDES THE NECESSARY CHARACTERIZATION TO DETERMINE IF FURTHER REMEDIATION IS NECESSARY AND WILL BE MET WHEN THE SAMPLING RESULTS HAVE BEEN ACCEPTED BY EPA. THE SELECTED REMOVAL ACTION FOR THE OTHER 18 FACILITIES LISTED IS OR IS EXPECTED TO BE COMPLETION OF DEACTIVATION, DECONTAMINATION, DECOMMISSIONING, AND DEMOLITION (D4) OF THE FACILITY. IN ACCORDANCE WITH APPROVED WORK PLANS, FOUNDATION, SUBSURFACE STRUCTURES, AND/OR SOIL CONTAMINATION CAN BE DEFERRED TO A COMPREHENSIVE REMEDIAL ACTION PROGRAM, BUT WASTE SITES WILL BE ESTABLISHED IN THE INTERIM TO TRACK THIS CLEANUP COMMITMENT.</p>	09/30/2013