

Change Number M-91-06-02	Federal Facility Agreement and Consent Order Change Control Form Do not use blue ink. Type or print using black ink.	Date 4/28/2006
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Class of Change
 I – Signatories II – Executive Manager III – Project Manager

Change Title
Modification of Hanford Federal Facility Agreement and Consent Order (Agreement) interim milestone M-91-40 retrieval sequence modification.

Description/Justification of Change
This change request is required to allow for concurrent retrieval actions in multiple burial grounds. Per discussions between RL and Ecology staff, the agencies agreed efficiencies could be gained if retrieval actions were performed concurrently versus sequentially and that volumes retrieved out of the originally prescribed sequence could be applied to the milestone completion rates identified by the M-91-40 interim milestone. Additionally, if specific boxes and large containers can not be removed from a trench within sixty days of being exposed DOE shall notify Ecology. Ecology will inspect the container and impose specific conditions for that waste container to prevent releases to the environment.

(Continued on page 6)

Impact of Change
This change will allow for a more efficient retrieval of contact handled retrievably stored waste (RSW). No impact is created to worker health or the environment from the modification of this interim milestone.

Affected Documents
The Hanford Federal Facility Agreement and Consent Order, as amended.

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EDMC

Approvals

Ecology  4/28/06 Approved Disapproved
Date

DOE-RL  4/28/06 Approved Disapproved
Date

EPA _____ Approved _____ Disapproved
Date

Modifications to existing Tri-Party Agreement milestones are denoted with ~~strikeout~~; new milestone/text are denoted with **shading**.

M-91-40	<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"> • 1,200 CUBIC METERS (CUMMULATIVE) BY 12/31/04, • 2,700 CUBIC METERS (CUMMULATIVE) BY 12/31/05, • 4,700 CUBIC METERS (CUMMULATIVE) BY 12/31/06, • 7,200 CUBIC METERS (CUMMULATIVE) BY 12/31/07, • 9,700 CUBIC METERS (CUMMULATIVE) BY 12/31/08, • 12,200 CUBIC METERS (CUMMULATIVE) BY 12/31/09, • COMPLETE RETRIEVAL OF CH-RSW BY 12/31/2010. <p>DOE SHALL CONTINUE RETRIEVAL ACTIONS IN 218-W-4C UNTIL ALL CH RSW IS RETRIEVED. SUBSEQUENT RETRIEVAL ACTIONS SHALL BE UNDERTAKEN SEQUENTIALLY AT BURIAL GROUNDS 218-E-12B, 218-W-3A, AND 218-W-4B. CONCURRENT RETRIEVAL ACTIONS CAN BE CONDUCTED IN MULTIPLE BURIAL GROUNDS. IF SPECIFIC BOXES AND 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. RETRIEVAL OF WASTE OUT OF THE ORDERED SEQUENCE SHALL NOT BE COUNTED TOWARD THE MILESTONE REQUIREMENT UNLESS JOINTLY AGREED TO BY ECOLOGY AND DOE. DOE MAY REQUEST SUCH APPROVAL WITH RESPECT TO WASTE IN BOXES AND LARGE CONTAINERS. IN REVIEWING SUCH REQUESTS, IN DETERMINING SUCH CONDITIONS ECOLOGY WILL CONSIDER AMONG OTHER FACTORS; WHETHER THE WASTE CONTAINER HAS BEEN UNCOVERED, INSPECTED AND FOUND TO BE INTACT AND NOT POSING A THREAT TO HUMAN</p>	DUE DATES AS INDICATED IN THE DESCRIPTIVE TEXT OF THIS MILESTONE
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~~HEALTH AND THE ENVIRONMENT (OR RE-PACKAGED TO PREVENT RELEASE TO THE ENVIRONMENT) AND EXISTING DOCUMENTATION DOES NOT INDICATE CONCERNING THE PRESENCE OF FREE LIQUIDS. ECOLOGY MAY CONDITION ITS AGREEMENT ON A DOE COMMITMENT TO PERFORM ADDITIONAL SPECIFIED REQUIREMENTS (E.G. CONTAINER INSPECTIONS, COVERING CONTAINERS, ETC.) TO PREVENT RELEASES TO THE ENVIRONMENT.~~

~~THE RETRIEVAL SEQUENCE IS PRIORITIZED BASED ON ENVIRONMENTAL RISK AND INTENDED TO ENSURE THAT DOE FIRST RETRIEVE WASTE FROM THE 218-W-4C BURIAL GROUND, WHICH HAS POTENTIAL CARBON TETRACHLORIDE CONTAMINATION ISSUES, AND TO SUBSEQUENTLY RETRIEVE WASTES FROM BURIAL GROUND 218-E-12B AND 218-W-3A WHERE CONTAINERS WERE PLACED IN CONFIGURATIONS THAT ALLOWED DIRECT CONTACT WITH THE SOIL. DOE SHALL CONCLUDE RETRIEVAL ACTIONS WITH BURIAL GROUND 218-W-4B.~~

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.

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. DOE PROVIDED ECOLOGY WITH A DRAFT 218-W-4C SAP ON 8/12/03. ECOLOGY'S INTENTION IS TO ISSUE A FINAL SAP WITHIN 30 DAYS. WITH RESPECT TO THE REMAINING BURIAL GROUNDS, DOE WILL PROVIDE ECOLOGY WITH UPDATED SAPS, IF NEEDED, FOR REVIEW AND APPROVAL AT LEAST 45 DAYS PRIOR TO STARTING RETRIEVAL IN EACH BURIAL GROUND. DOE WILL IMPLEMENT APPROVED SAPS, AS A REQUIREMENT OF THIS MILESTONE, DURING RETRIEVAL OF ALL RSW.

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.

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, AND SHALL SPECIFICALLY IDENTIFY INDIVIDUAL BOXES AND LARGE CONTAINERS THAT CANNOT BE DESIGNATED BASED ON AVAILABLE PROCESS KNOWLEDGE. FOR THE BOXES AND 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 (SIX MONTHS AFTER THE RH AND LARGE CONTAINER MLLW FACILITIES AND/OR CAPABILITIES ARE REQUIRED TO BE OPERATIONAL). FOR BOXES AND 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 (SIX MONTHS AFTER THE RH AND LARGE CONTAINER TRANSURANIC FACILITIES AND/OR CAPABILITIES ARE REQUIRED TO BE OPERATIONAL).
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).
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:
 - START VAPOR EXTRACTION BY NOVEMBER 15, 2003, TO REDUCE CARBON TETRACHLORIDE VAPORS.
 - START RETRIEVAL IN TRENCH 4 BY JANUARY 15, 2004
 - COMPLETE RETRIEVAL OF TRENCH 4 BY DECEMBER 31, 2006. (WITH THE EXCEPTION OF THOSE BOXES AND LARGE CONTAINERS THAT THE PARTIES HAVE AGREED, IN WRITING, MAY BE RETRIEVED OUT OF SEQUENCE.)

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.

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).

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.

EACH REQUIREMENT OF THIS MILESTONE IS CONSIDERED A DISTINCT WORK REQUIREMENT INDEPENDENTLY SUBJECT TO THE ENFORCEMENT PROVISIONS OF THE AGREEMENT.

Justification

Concurrent retrieval from multiple burial grounds will allow for continued retrieval when unexpected problems are uncovered that would otherwise halt retrieval if it were required to be done sequentially. The concurrent retrieval of waste will provide early identification of retrieval issues and allow for greater time and flexibility to safely resolve the issues and provide for more efficient use of resources across the retrieval project. Concurrent retrieval of waste will allow for a higher confidence of completing the retrieval of contact handled retrievably stored waste by or before the 12/31/2010 interim milestone due date.