

Change Number M-15-93-04	Federal Facility Agreement and Consent Order Change Control Form Do not use blue ink. Type or print using black ink.	Date Jan. 25, 1994												
Originator K.M. Thompson	Phone 376-6421													
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Project Manager <input type="checkbox"/> III - Unit Manager														
Change Title ESTABLISH MILESTONES FOR A TREATABILITY TEST AT A BURIAL GROUND IN THE 100-B AREA														
Description/Justification of Change Establish the following target date and milestones: <table border="0"> <tr> <td data-bbox="158 762 344 793">M-15-16A-T01</td> <td data-bbox="373 762 1185 854">Finalize the scope of work for the 100-B Area Burial Ground Treatability Test before starting the test plan.</td> <td data-bbox="1248 762 1522 793">February 15, 1994</td> </tr> <tr> <td data-bbox="158 887 283 917">M-15-16A</td> <td data-bbox="373 887 1169 948">Submit to the EPA and Ecology the 100-B Area Burial Ground Test Plan.</td> <td data-bbox="1248 887 1376 917">May 1994</td> </tr> <tr> <td data-bbox="158 981 283 1011">M-15-16B</td> <td data-bbox="373 981 1110 1042">Commence remedial field work for the 100-B Area Burial Ground.</td> <td data-bbox="1248 981 1423 1011">August 1994</td> </tr> <tr> <td data-bbox="158 1075 283 1105">M-15-16C</td> <td data-bbox="373 1075 1138 1136">Submit to the EPA and Ecology a 100-B Area Burial Ground Field Work Report.</td> <td data-bbox="1248 1075 1376 1105">May 1995</td> </tr> </table> <p style="text-align: center;">Description continued on page 2 of this change form.</p>			M-15-16A-T01	Finalize the scope of work for the 100-B Area Burial Ground Treatability Test before starting the test plan.	February 15, 1994	M-15-16A	Submit to the EPA and Ecology the 100-B Area Burial Ground Test Plan.	May 1994	M-15-16B	Commence remedial field work for the 100-B Area Burial Ground.	August 1994	M-15-16C	Submit to the EPA and Ecology a 100-B Area Burial Ground Field Work Report.	May 1995
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Impact of Change None.	 MAR 17 2003 EDMC													
Affected Documents Hanford Federal Facility Agreement and Consent Order, Action Plan, Appendix D.														
Approvals <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved This change form approved by Amendment Four to the Hanford Federal Facility Agreement and Consent Order executed by the signatories on January 25, 1994. <table border="0"> <tr> <td data-bbox="158 1725 903 1766"><u>John Wagoner</u> DOE</td> <td data-bbox="918 1725 1099 1766">January 25, 1994 Date</td> </tr> <tr> <td data-bbox="158 1790 903 1831"><u>Gerald Emison</u> EPA</td> <td data-bbox="918 1790 1099 1831">January 25, 1994 Date</td> </tr> <tr> <td data-bbox="158 1855 903 1896"><u>Mary Riveland</u> Ecology</td> <td data-bbox="918 1855 1099 1896">January 25, 1994 Date</td> </tr> </table>		<u>John Wagoner</u> DOE	January 25, 1994 Date	<u>Gerald Emison</u> EPA	January 25, 1994 Date	<u>Mary Riveland</u> Ecology	January 25, 1994 Date							
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ACTION:

Conduct a treatability test at a burial ground in the 100-B Area to obtain additional engineering information for remedial design of burial grounds receiving waste generated from 100 Area removal actions. The test will consist of collecting waste for analysis for development of waste acceptance criteria, evaluations of safety considerations for contingency planning, waste removal and transportation technology, and verification of existing information from historical records.

BACKGROUND:

The 100 Area burial grounds, such as the 118-B-1, contain a great variety of different waste forms as per historical records. Some of the wastes were segregated into specific trenches during disposal. The waste types range from typical office trash to chemical and radiologically contaminated equipment. The 118-B-1 Burial Ground first received wastes in 1944 and continued to receive wastes until 1973. The 118-B-1 Burial Ground was sampled for radionuclide contaminants in April 1976 and reported by Dorian and Richards (1978). The 118-B-1 Burial Ground is the preferred site (to conduct a treatability test) as selected by the U.S. Environmental Protection Agency (EPA) and State of Washington Department of Ecology (Ecology).

SCOPE:

The 118-B-1 Burial Ground is part of the 100-BC-2 Operable Unit. The strategy negotiated between the Tri-Party signatories and being used for burial grounds in the 100 Area relies on existing information and the observational approach to achieve remediation goals. The data generated from the exhumation of selected trenches in the 118-B-1 Burial Ground will help evaluate existing information on waste forms and other engineering information that is useful in planning the remediation. This information includes but is not limited to the following:

- o Types of waste media that will need to be addressed.
- o Amount of overburden covering trenches.
- o Depth of waste material in trenches.
- o Analytical Screening techniques to utilize during remediation.
- o Types of contaminants for Safety planning, removal and transportation equipment, data for treatment or immobilization considerations and Waste Acceptance Criteria development.
- o Segregation, decontamination and volume reduction (compaction).

The exhumation of the test pits in the 118-B-1 Burial Ground will be no less than 5000 cubic yards and up to 10,000 cubic yards. The waste generated from the test pits will be managed as "investigation-derived-waste" or returned to the excavation in a manner that will facilitate final remediation. The majority of the wastes will be handled in a manner similar to test pit wastes. The specifics of the waste management will be detailed in the treatability test plan.

An individual burial ground is heterogeneous and an excavation study may not be sufficient to develop a complete and comprehensive analog for waste acceptance criteria or analogous site strategies. Other contingencies may be found to be necessary in the planning for remediating any burial ground regardless of any prior burial ground knowledge or experience. The proposed tests will, however, serve to help identify the probability of a specific waste scenario to occur during remediation.

ASSUMPTIONS:

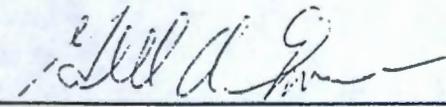
- Use field screening techniques for contamination identification with minimal lab samples for confirmation. No high activity samples will be collected.
- Utilize information and techniques from the 100-HR-1 Excavation Treatability Study.
- The Scope of Work including number and location of trenches selected will be negotiated and agreed to by the EPA, Ecology, and the U.S. Department of Energy, Richland Operations Office (RL) before starting the Test Plan.
- Wastes will be returned to the excavation in the reverse order of the removal or will be handled as "investigation-derived-waste".

0151-251514

IT IS SO AGREED:

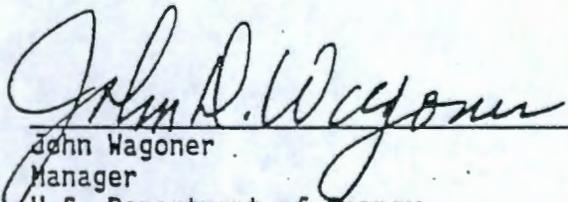
Each undersigned representative of a Party certifies that he or she is fully authorized to enter into this Agreement and Action Plan and to legally bind such Party to this Agreement and Action Plan. These change requests and amendments shall be effective upon the date on which this amendment agreement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

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:


Gerald Emison
Acting Regional Administrator
Region 10
U.S. Environmental Protection Agency

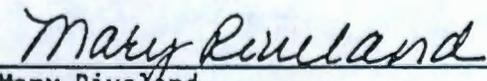
1-25-94
Date

FOR THE UNITED STATES DEPARTMENT OF ENERGY:


John Wagoner
Manager
U.S. Department of Energy
Richland Operations Office

1/25/94
Date

FOR THE WASHINGTON STATE DEPARTMENT OF ECOLOGY:


Mary Riveland
Director
State of Washington
Department of Ecology

1/25/94
Date

50027-AP1P146