

Change Number M-51-93-01	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 W. C. Miller		Phone (509) 372-0255						
Class of Change <input checked="" type="checkbox"/> I - Signatories <input type="checkbox"/> II - Project Manager <input type="checkbox"/> III - Unit Manager								
Change Title Establish milestones for immobilization of high level tank waste								
<p data-bbox="82 646 1474 1140">Description/Justification of Change New milestones for immobilizing high level waste resulting from processing Hanford tank waste are being established to reflect the results of Tank Waste Remediation System rebaselining by the DOE, negotiations among the three parties to the Tri Party Agreement, and values received from the public, stakeholders and other affected parties. These changes reflect the shift in emphasis from early treatment of waste currently stored in double-shell tanks to early retrieval of waste from older single-shell tanks and, in the near term, treatment and disposal of the low-level fraction of the Hanford tank waste. Treatment and disposal of high level waste is not a near-term, critical path activity for retrieval of waste from the single-shell tanks and closure of the single-shell tank farms. High level waste treatment and disposal will be a critical path activity for completion of the tank waste treatment program. The shift in priority for high level waste treatment allows the deferral of this component of the overall treatment and disposal system until appropriate designs are developed based on this revised strategy. The following milestones and target dates are established for this activity:</p> <p data-bbox="82 1161 1474 1203">M-51-00 Complete vitrification of Hanford high level tank waste December 2028</p> <p data-bbox="1076 1224 1474 1266">(Continued on next page)</p>								
Impact of Change This change eliminates the M-03 series of milestones for the Hanford Waste Vitrification Plant and establishes a new series (M-51) for high level waste vitrification.								
Affected Documents Hanford Federal Facility Agreement and Consent Order Action Plan, Appendix D								
<p data-bbox="82 1539 1474 1581">Approvals <u> X </u> Approved <u> </u> Disapproved</p> <p data-bbox="82 1581 1474 1633">This change form approved by Amendment Four to the Hanford Federal Facility Agreement and Consent Order executed by the signatories on January 25, 1994.</p> <table data-bbox="82 1665 1185 1852"> <tr> <td data-bbox="82 1665 836 1728">John Wagoner DOE</td> <td data-bbox="836 1665 1185 1728">January 25, 1994 Date</td> </tr> <tr> <td data-bbox="82 1728 836 1791">Gerald Emison EPA</td> <td data-bbox="836 1728 1185 1791">January 25, 1994 Date</td> </tr> <tr> <td data-bbox="82 1791 836 1852">Mary Riveland Ecology</td> <td data-bbox="836 1791 1185 1852">January 25, 1994 Date</td> </tr> </table>			John Wagoner DOE	January 25, 1994 Date	Gerald Emison EPA	January 25, 1994 Date	Mary Riveland Ecology	January 25, 1994 Date
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Gerald Emison EPA	January 25, 1994 Date							
Mary Riveland Ecology	January 25, 1994 Date							

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Description/Justification of Change, continued

- M-51-01 Provide report to Ecology and EPA on evaluation of alternative concepts for treatment and disposal of high level Hanford tank wastes. December 1994
- Some innovative approaches, such as privatization of the high-level waste vitrification facility, have recently been proposed which may have significant schedule, cost, or environmental advantages which could improve the new program strategy.
- Options may be identified which have the potential to significantly improve the tank waste disposal strategy. A systems engineering approach will be used to define and evaluate the options. This evaluation is not intended to provide options which marginally improve the reference strategy. Options which maintain or enhance environmental conditions and 1) significantly improve reference case schedules or 2) substantially reduce cost while maintaining or improving reference case schedules will be proposed through the approved change control process.
- M-51-01-T01 Provide EPA and Ecology with results of evaluation and a decision to proceed/not proceed with the ECA proposal for vitrification. June 1994
- M-51-02 Complete melter tests and select reference melter September 1998
- This milestone will provide confirmation that melter development has successfully produced a melter compatible with the sludge pretreatment technology to be deployed (see milestone M-51-03) and will complete processing in the required timeframe.
- M-51-03-T01 Submit conceptual design (to include selected capacity and process) of HLW vitrification facility September 1998
- M-51-03-T02 Initiate definitive design of the HLW vitrification facility December 1998
- M-51-03-T03 Initiate construction of the HLW vitrification facility June 2002
- M-51-03-T04 Complete construction of the HLW vitrification facility December 2007
- M-51-03 Initiate hot operations of the HLW vitrification facility December 2009

This strategy is based on the following:

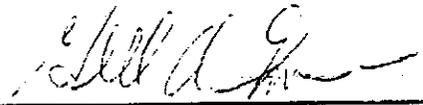
Sludge washing and enhanced sludge washing will result in the production of a "reasonable" volume of HLW or number of HLW containers requiring repository disposal such that other established sludge treatment processes will not result in significant overall cost savings or schedule improvements.

9101 DEC 1994

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.

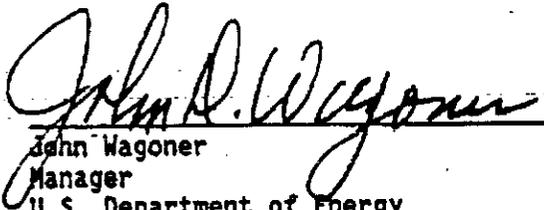
FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:



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

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