

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>Description/Justification of Change</p> <p>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>M-51-00      Complete vitrification of Hanford high level tank waste      December 2028</p> <p style="text-align: right;">(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>Approvals      <input checked="" type="checkbox"/> Approved      <input type="checkbox"/> Disapproved</p> <p>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> <p><u>John Wagoner</u>      <u>January 25, 1994</u> DOE      Date</p> <p><u>Gerald Emison</u>      <u>January 25, 1994</u> EPA      Date</p> <p><u>Mary Riveland</u>      <u>January 25, 1994</u> Ecology      Date</p>		

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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

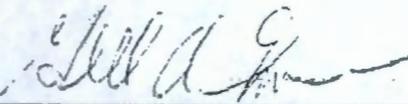
This strategy is based on the following:

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.

IT IS SO AGREED:

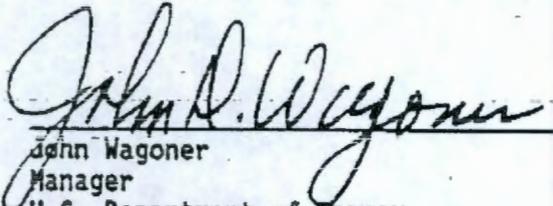
Each undersigned representative of a Party certifies that he or she is fully authorized to enter into this Agreement and Action Plan and to legally bind such Party to this Agreement and Action Plan. These change requests and amendments shall be effective upon the date on which this amendment agreement 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

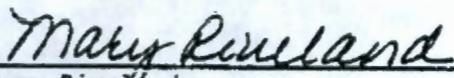
1-25-94  
Date

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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