

Change Number M-43-93-01	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 G. L. Crawford		Phone (509) 373-5896															
Class of Change <input checked="" type="checkbox"/> I - Signatories (Section 13.0) <input type="checkbox"/> II - Project Manager <input type="checkbox"/> III - Unit Manager																	
Change Title Establish Milestones for Tank Farm Upgrades Program																	
Description/Justification of Change <p>Establish new major milestone, "M-43-00, Complete Tank Farm Upgrades, June 2005."</p> <p>This major milestone (M-43-00) and associated interim milestones are additions to the HFFACO, to include the Tank Farm Restoration and Upgrades to support safe storage and disposal operations.</p> <ul style="list-style-type: none"> <li>• M-43-01 Complete Project W-030 Tank Farm Ventilation Upgrades      Dec 1996</li> </ul> <p>Project W-030 is an ongoing project which will replace the ventilation system for the AY and AZ Tank Farm. It does not include replacement of the annulus ventilation systems, they are addressed in Project W-3148.</p> <ul style="list-style-type: none"> <li>• M-43-01-T01 Complete Definitive Design for W-030      July 1994</li> <li>• M-43-01A Start Construction of W-030      Oct 1994</li> <li>• M-43-01B Complete Construction of W-030      Oct 1996</li> <li>• M-43-01C Begin Operation of W-030      Dec 1996</li> </ul> <p style="text-align: right;">(Continued on next page)</p>																	
Impact of Change <p>The proposed change adds the Tank Farm Upgrades series M-43 milestones, and replaces Milestone M-17-32.</p> <p>The agreement to communicate project information contained here does not effect the normal permitting process for these projects.</p>																	
Affected Documents Hanford Federal Facility Agreement and Consent Order, Appendix D (Table D-1 and Figure D-1 Work Schedule).																	
<table border="0"> <tr> <td>Approvals</td> <td style="text-align: center;"><input checked="" type="checkbox"/> Approved</td> <td style="text-align: center;"><input type="checkbox"/> Disapproved</td> </tr> <tr> <td colspan="3">           This change form approved by Amendment Four to the Hanford Federal Facility Agreement and Consent Order executed by the signatories on January 25, 1994.         </td> </tr> <tr> <td> <u>John Wagoner</u>            DOE         </td> <td></td> <td> <u>January 25, 1994</u>            Date         </td> </tr> <tr> <td> <u>Gerald Emison</u>            EPA         </td> <td></td> <td> <u>January 25, 1994</u>            Date         </td> </tr> <tr> <td> <u>Mary Riveland</u>            Ecology         </td> <td></td> <td> <u>January 25, 1994</u>            Date         </td> </tr> </table>			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.			<u>John Wagoner</u> DOE		<u>January 25, 1994</u> Date	<u>Gerald Emison</u> EPA		<u>January 25, 1994</u> Date	<u>Mary Riveland</u> Ecology		<u>January 25, 1994</u> Date
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• M-43-02 Complete Project W-314B Double Shell Tank Ventilation Upgrade Jun 2002

Project W-314B will evaluate the condition of all existing double shell tank (DST) primary and annulus ventilation systems, and will replace or upgrade selected systems as required. Project W-030 is currently replacing the primary tank ventilation systems on the AY and AZ tanks (annulus systems not included). Therefore, Project W-314B will not address those systems. Also being evaluated for inclusion in Project W-314B are: replacement of the ventilation systems on Tank A-105, replacement of the SX Farm ventilation system, and installing ventilation systems for the Double Contained Receiver Tanks.

The Department of Energy and the State of Washington have agreed to participate in Study Analysis Sessions to define scope and requirements for this project. The Department of Energy will provide Washington State Department of Ecology and Department of Health invitations to these sessions with a minimum 1 week notice. The Washington State Department of Ecology and Department of Health will provide participants in these Study Analysis Sessions.

- M-43-02-T01 Provide the Washington State Department of Ecology and Department of Health the project Engineering Study, and scope statement. Feb 1994
- M-43-02-T02 Provide the Washington State Department of Ecology and Department of Health the project Functions and Requirements. Apr 1994
- M-43-02-T03 Provide the Washington State Department of Ecology and Department of Health the project Conceptual Design Statement of Work and Conceptual Design Criteria. Jun 1994
- M-43-02A Provide the Washington State Department of Ecology and Department of Health the project Conceptual Design Report. May 1995
- M-43-02-T05 Provide the Washington State Department of Ecology and Department of Health the Project Design Criteria. Sep 1995
- M-43-02-T06 Receive DOE-HQ project validation to request congressional funding. Jun 1995
- M-43-02-T07 Start Definitive Design for W-314B. Jan 1997
- M-43-02-T08 Complete Definitive Design for W-314B. Jan 1999
- M-43-02-T09 Start construction of W-314B. Mar 1999
- M-43-02B Complete construction of W-314B. Dec 2001
- M-43-02C Start operation of W-314B. June 2002
- M-43-03 Provide the Washington State Department of Ecology and Department of Health the results of the Single Shell Tank ventilation upgrades needs analysis. Mar 1997

The needs analysis will evaluate all Single Shell Tanks ventilation systems for replacement, where a ventilation system exists. Where no ventilation system exists on Single Shell Tanks, each tank or system of tanks will be evaluated for the need for a ventilation system.

Critical factors in determining the need for and type of ventilation system for a particular tank or system of tanks will be the retrieval schedule and the service life of any proposed ventilation system.

The Department of Energy and the State of Washington have agreed to participate in Study Analysis Sessions to define requirements for this analysis. The Department of Energy will provide Washington State Department of Ecology and Department of Health invitations to these sessions with a minimum 1 week notice. The Washington State Department of Ecology and Department of Health will provide participants in these Study Analysis Sessions.

- M-43-04 Complete Project W-314A Tank Farm Integrated Instrumentation System Upgrade Jun 2002

Project W-314A, will provide an integrated instrumentation system for Tank Farms. The project will evaluate the current status of instrumentation and related equipment and integrate it appropriately with ongoing near term upgrades, related programs, and projects. This system will include sensing elements, data communication, data reduction, and data analysis systems.

The Department of Energy and the State of Washington have agreed to participate in Study Analysis Sessions to define scope and requirements for this project. The Department of Energy will provide Washington State Department of Ecology and Department of Health invitations to these sessions with a minimum 1 week notice. The Washington State Department of Ecology and Department of Health will provide participants in these Study Analysis Sessions.

- M-43-04-T01 Provide the Washington State Department of Ecology and Department of Health the project Engineering Study, and scope statement. Mar 1994
- M-43-04-T02 Provide the Washington State Department of Ecology and Department of Health the project Functions and Requirements. May 1994
- M-43-04-T03 Provide the Washington State Department of Ecology and Department of Health the project Conceptual Design Statement of Work and Conceptual Design Criteria. Jun 1994
- M-43-04A Provide the Washington State Department of Ecology and Department of Health the project Conceptual Design Report. May 1995
- M-43-04-T04 Provide the Washington State Department of Ecology and Department of Health the Project Design Criteria. Sep 1995
- M-43-04-T05 Receive DOE-HQ project validation to request congressional funding. Jun 1995
- M-43-04-T06 Start Definitive Design for W-314A. Jan 1996
- M-43-04-T07 Complete Definitive Design for W-314A. Nov 1998
- M-43-04B Provide the Washington State Department of Ecology and Department of Health an integrated level 3 schedule showing all phases of project construction. Dec 1998
- M-43-04-T08 Start construction of W-314A. Dec 1998
- M-43-04C Complete construction of W-314A. Dec 2001

- M-43-04D Start operation of W-314A. Jun 2002
- M-43-05 Complete Project W-314C Transfer System Upgrades Jun 2004

Project W-314C, will provide compliant waste transfer lines to connect the single shell tank farms with the new cross-site transfer line, being provided by Project W-058 (addressed in Milestone M-43-07). Project W-314C will provide a waste receiving station at each single shell tank farm, where waste will be collected from waste retrieval systems. Waste will then be transmitted to the cross-site transfer line system for transfer to its destination. This project is being closely coordinated with retrieval efforts to assure the transfer lines interfaces are well defined and that the lines will be in place to support retrieval schedules.

The Department of Energy and the State of Washington have agreed to participate in Study Analysis Sessions to define scope and requirements for this project. The Department of Energy will provide Washington State Department of Ecology and Department of Health invitations to these sessions with a minimum 1 week notice. The Washington State Department of Ecology and Department of Health will provide participants in these Study Analysis Sessions.

- M-43-05-T01 Provide the Washington State Department of Ecology the project Engineering Study, and scope statement. Feb 1995
- M-43-05-T02 Provide the Washington State Department of Ecology the project Functions and Requirements. Apr 1995
- M-43-05-T03 Provide the Washington State Department of Ecology the project Conceptual Design Statement of Work and Conceptual Design Criteria. Jun 1995
- M-43-05A Provide the Washington State Department of Ecology the project Conceptual Design Report. May 1996
- M-43-05-T05 Provide the Washington State Department of Ecology the Project Design Criteria. Sep 1996
- M-43-05-T06 Receive DOE-HQ project validation to request congressional funding. Jun 1996
- M-43-05-T07 Start Definitive Design for W-314C. Jan 1998
- M-43-05-T08 Complete Definitive Design for W-314C. Nov 2000
- M-43-05-T09 Start construction of W-314C. Mar 2000
- M-43-05B Complete construction of W-314C. Dec 2003
- M-43-05C Start operation of W-314C. Jun 2004
- M-43-06 Complete Project W-314D Tank Farm Electrical Upgrade Jun 2005

Project W-314D, will evaluate and provide necessary upgrades to the Tank Farms electrical distribution systems to support retrieval and bring the systems into compliance with current codes and standards at the time of design. The high voltage distribution system will not be addressed by Project W-314D. The high voltage system is being evaluated and upgraded as a part of a separate program.

The Department of Energy and the State of Washington have agreed to participate in Study Analysis Sessions to define scope and requirements for this project. The Department of Energy will provide Washington State Department of Ecology and

Department of Health invitations to these sessions with a minimum 1 week notice. The Washington State Department of Ecology and Department of Health will provide participants in these Study Analysis Sessions.

- M-43-06-T01 Provide the Washington State Department of Ecology the project Engineering Study, and scope statement. Feb 1996
- M-43-06-T02 Provide the Washington State Department of Ecology the project Functions and Requirements. Apr 1996
- M-43-06-T03 Provide the Washington State Department of Ecology the project Conceptual Design Statement of Work and Conceptual Design Criteria. Jun 1996
- M-43-06A Provide the Washington State Department of Ecology the project Conceptual Design Report. May 1997
- M-43-06-T05 Provide the Washington State Department of Ecology the Project Design Criteria. Sep 1997
- M-43-06-T06 Receive DOE-HQ project validation to request congressional funding. Jun 1997
- M-43-06-T07 Start Definitive Design for W-314D. Jan 1999
- M-43-06-T08 Complete Definitive Design for W-314D. Oct 2001
- M-43-06-T09 Start construction of W-314D. Mar 2001
- M-43-06-B Complete construction of W-314D. Dec 2004
- M-43-06-C Start operation of W-314D. Jun 2005
- M-43-07 Complete Project W-058 Replacement of Cross-Site Transfer System Feb 1998

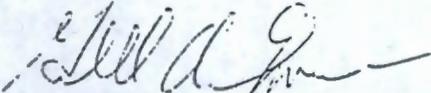
Project W-058, will provide encased pipelines to connect the SY Tank Farm in 200 West Area, with the 200 East Area tank farms by way of its interface with the 244-A Lift Station. The system will replace parts of the existing cross site transfer system which are nearing the end of their useful life and portions which are not in compliance with current codes and regulations.

- M-43-07-T01 Complete Definitive Design for W-058. Aug 1995
- M-43-07A Start Construction of W-058. Nov 1995
- M-43-07B Complete Construction of W-058. Aug 1997
- M-43-07C Cross Site Transfer System Operational Feb 1998

IT IS SO AGREED:

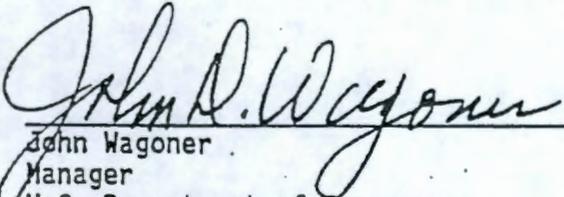
Each undersigned representative of a Party certifies that he or she is fully authorized to enter into this Agreement and Action Plan and to legally bind such Party to this Agreement and Action Plan. These change requests and amendments shall be effective upon the date on which this amendment agreement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

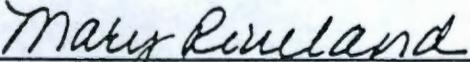
1-25-94  
Date

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