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Change Number M-43-95-01	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date March 23, 1995
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Originator M.L. Ramsay / M.A. McLaughlin	Phone (509)376-7924/(509)376-4084
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Class of Change
 I - Signatories II - Project Manager III - Unit Manager

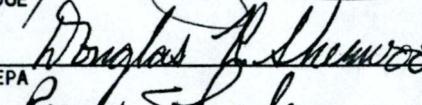
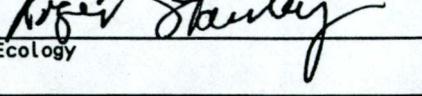
Change Title
 Revise the M-43-02, M-43-04, M-43-05, & M-43-06 series of milestones to reflect the current management approach to Project W-314, the application of the current Systems Engineering approach, and the current project status.

Description/Justification of Change
 See attached pages 2 through 5.

Impact of Change
 The delay in approval of Key Decision 0 (KD-0) has caused a one year minimum slip in the project schedule. This change to the milestone series allows for flexibility in schedule built around the receipt date of KD-0 approval. There is no change to the project completion date.

Affected Documents
 Hanford Federal Facility Agreement and Consent Order Action Plan, Appendix D.

Approvals

 DOE	<u>3/29/95</u> ✓ Approved ___ Disapproved <small>Date</small>
 EPA	<u>4/20/95</u> ___ Approved ✓ Disapproved <small>Date</small>
 Ecology	<u>4/12/95</u> ___ Approved ✓ Disapproved <small>Date</small>



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DESCRIPTION (cont.)

The existing series of milestones to be changed is shown below:

M-43-02	COMPLETE PROJECT W-314B DOUBLE SHELL TANK VENTILATION UPGRADE.	6/30/2002
M-43-02-T06	RECEIVE DOE-HQ PROJECT VALIDATION TO REQUEST CONGRESSIONAL FUNDING (FOR PROJECT W-314B DOUBLE SHELL TANK VENTILATION UPGRADE).	6/30/1995
M-43-02-T07	START DEFINITIVE DESIGN FOR W-314B.	1/31/1997
M-43-02-T08	COMPLETE DEFINITIVE DESIGN FOR W-314B.	1/31/1999
M-43-02-T09	START CONSTRUCTION FOR W-314B.	3/31/1999
M-43-02A	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AND DEPARTMENT OF HEALTH THE PROJECT CONCEPTUAL DESIGN REPORT (OF PROJECT W-314B DOUBLE-SHELL TANK UPGRADE).	5/31/1995
M-43-02B	COMPLETE CONSTRUCTION OF W-314B (DOUBLE SHELL TANK VENTILATION UPGRADE).	12/31/2001
M-43-02C	START OPERATION OF W-314B (DOUBLE SHELL TANK VENTILATION UPGRADE).	6/30/2002
M-43-04	COMPLETE PROJECT W-314A TANK FARM INTEGRATED INSTRUMENTATION SYSTEM UPGRADES.	6/30/2002
M-43-04-T05	RECEIVE DOE-HQ PROJECT VALIDATION TO REQUEST CONGRESSIONAL FUNDING (FOR W-314A TANK FARM INTEGRATED INSTRUMENTATION SYSTEM UPGRADE).	6/30/1995
M-43-04-T06	START DEFINITIVE DESIGN FOR W-314A.	1/31/1996
M-43-04-T07	COMPLETE DEFINITIVE DESIGN FOR W-314A.	11/30/1998
M-43-04-T08	START CONSTRUCTION OF W-314A.	12/31/1998
M-43-04A	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AND DEPARTMENT OF HEALTH THE PROJECT CONCEPTUAL DESIGN REPORT (FOR PROJECT W-314A TANK FARM INTEGRATED INSTRUMENTATION SYSTEM UPGRADE).	5/31/1995
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 (FOR PROJECT W-314A TANK FARM INTEGRATED INSTRUMENTATION SYSTEM UPGRADE).	12/31/1998

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Description (cont.)

M-43-04C	COMPLETE CONSTRUCTION OF W-314A.	12/31/2001
M-43-04D	START OPERATION OF W-314A.	6/30/2002
M-43-05	PROJECT W-314C TRANSFER SYSTEM UPGRADES	6/30/2004
M-43-05-T06	RECEIVE DOE-HQ PROJECT VALIDATION TO REQUEST CONGRESSIONAL FUNDING (FOR PROJECT W-314C TRANSFER SYSTEM UPGRADES).	6/30/1996
M-43-05-T07	START DEFINITIVE DESIGN FOR W-314C.	1/31/1998
M-43-05-T08	COMPLETE DEFINITIVE DESIGN FOR W-314C.	11/30/2000
M-43-05-T09	START CONSTRUCTION OF W-314C.	3/31/2000
M-43-05A	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY THE PROJECT CONCEPTUAL DESIGN REPORT (PROJECT W-314C TRANSFER SYSTEM UPGRADES).	5/31/1996
M-43-05B	COMPLETE CONSTRUCTION OF W-314C.	12/31/2003
M-43-05C	START OPERATION OF W-314C.	6/30/2004
M-43-06	COMPLETE PROJECT W-314D TANK FARM ELECTRICAL UPGRADE.	6/30/2005
M-43-06-T06	RECEIVE DOE-HQ PROJECT VALIDATION TO REQUEST CONGRESSIONAL FUNDING (FOR PROJECT W-314D TANK FARM ELECTRICAL UPGRADE).	6/30/1997
M-43-06-T07	START DEFINITIVE DESIGN FOR W-314D.	1/31/1999
M-43-06-T08	COMPLETE DEFINITIVE DESIGN FOR W-314D.	10/31/2001
M-43-06-T09	START CONSTRUCTION OF W-314D.	3/31/2001
M-43-06A	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY THE PROJECT CONCEPTUAL DESIGN REPORT (FOR PROJECT W-314D TANK FARM ELECTRICAL UPGRADE).	5/31/1997
M-43-06B	COMPLETE CONSTRUCTION OF W-314D.	12/31/2004
M-43-06C	START OPERATION OF W-314D.	6/30/2005
The above milestones will be deleted and replaced with the following:		
M-43-08	COMPLETE PROJECT W-314 TANK FARM RESTORATION AND SAFE OPERATIONS MAJOR SYSTEMS ACQUISITION	6/30/2005

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Description (cont.)

M-43-08-T01	RECEIVE DOE-HQ PROJECT VALIDATION TO REQUEST CONGRESSIONAL FUNDING FOR W-314.	6/30/1996
M-43-08-T02	START DEFINITIVE DESIGN FOR W-314.	1/31/1997
M-43-08-T03	COMPLETE DEFINITIVE DESIGN FOR W-314.	6/30/2004
M-43-08-T04	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AND DEPARTMENT OF HEALTH AND EPA AN INTEGRATED LEVEL 3 SCHEDULE SHOWING ALL PHASES OF PROJECT CONSTRUCTION FOR PROJECT W-314, WHICH SHALL PROVIDE THE BASIS FOR ESTABLISHING ADDITIONAL CONSTRUCTION MILESTONES.	12/31/1998
M-43-08-T05	START CONSTRUCTION OF W-314.	12/31/1998
M-43-08-T06	COMPLETE CONSTRUCTION OF W-314.	12/31/2004
M-43-08A	PROVIDE THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AND DEPARTMENT OF HEALTH, AND EPA THE DESIGN CONFIGURATION BASELINE FOR PROJECT W-314.	5/31/1996
M-43-08B	VALIDATE TARGET MILESTONE DATES (IN ORDER TO CONVERT TO INTERIM MILESTONES) FOR PROJECT W-314 DESIGN AND CONSTRUCTION ACTIVITIES BASED UPON THE COMPLETED DESIGN CONFIGURATION BASELINE.	7/31/1996
M-43-08C	COMPLETE TURNOVER OF ALL W-314 SYSTEMS TO OPERATIONS.	6/30/2005

Justification

This change is driven by three distinct causes. Although the milestones above combine the causes into a single output, the justification is best understood if taken in three pieces.

First is the justification for combining the four distinct series of interim milestones.

Project W-314 is a Major Systems Acquisition (MSA) project. It formerly consisted of four sub-projects:

W-314A Tank Farm Integrated Instrumentation System Upgrades

W-314B Double Shell Tank Ventilation Upgrades

W-314C Transfer System Upgrades

W-314D Tank Farm Electrical Upgrades.

Each of the sub-projects was planned for a slightly different schedule.

During the Engineering Studies for these projects it became clear that the integration and management of this project in design and construction would be improved if they were combined into a single project on a single schedule. Therefore, the former sub-projects have been combined into a single MSA with no sub-projects retaining the Project W-314 designation. As a result the four series of TPA interim milestones are combined in this change request to a single milestone series.

Justification (cont.)

Second is the change in wording from Conceptual Design Report to Design Configuration Baseline.

TWRS is in the process of converting from the traditional project management approach and documentation to a systems engineering approach. Under the new systems engineering approach, the Conceptual Design Report is being replaced by the Design Configuration Baseline (DCBL). The DCBL will include design concepts and requirements, as well as systems engineering project basis documentation. Therefore, the milestone which formerly called for submittal of a Conceptual Design Report was reworded to call for the submittal of a Design Configuration Baseline.

Third, and last, is the change to reflect the current project status.

A budget restructuring change is being processed to transfer from project W-314 the waste transfer systems which support waste retrieval from single shell tanks. This scope is being transferred to the Retrieval Program which will administer the work. This transfer of responsibility will allow that scope to be more closely integrated with its primary purpose, waste retrieval from the single shell tanks. Upgrades to transfer systems for the single shell tanks will occur incrementally as needed to support the retrieval of waste from the single shell tanks.

Under the DOE Project Management System, DOE Headquarters is required to approve critical points in the project process. The current delays to Project W-314 have been caused by a delay in approval of Key Decision-0 (KD-0) which is required before conceptual design activities can begin. Approval of this decision by DOE-HQ was requested by DOE-RL in June 1994. Approval of KD-0, originally scheduled for July 1994, was required before October 1, 1994 to avoid schedule delays. KD-0 was approved on February 15, 1995.

As a result, the milestone for completion of the W-314 DCBL is logically tied to two things:

- Receipt of KD-0 from DOE-HQ.
- 12 months to prepare the DCBL, subsequent to receipt of KD-0.

The milestone to validate the target dates for design and construction activities is based on anticipated approval of the project cost and schedule baselines before July 31 following completion of the DCBL.