

# START

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Change Number M-40-94-01	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date March 18, 1994
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Class of Change  
 I - Signatories       II - Project Manager       III - Unit Manager

Change Title  
M-40-13 Design and Fabricate a Spare Mixer Pump for Tank 241-SY-101. September 1994.

Description/Justification of Change

A revision is requested to Milestone M-40-13, "Document 100% Design Completion of Permanent Mitigation Pump for Tank 241-SY-101." The milestone currently reads as follows: "Design a permanent mixer pump for tank 241-SY-101. The permanent mixer pump will have a design life exceeding five years and will replace the test pump that is currently installed in the tank. July 1994."

It is proposed that the milestone be revised to read: "Design and Fabricate a Spare Mixer Pump for Tank 241-SY-101. The spare pump will have a design life exceeding five years and will replace the test pump that is currently installed in the tank in the event that it fails. September 1994."

In accordance with the original milestone, a permanent mitigation pump is scheduled to be designed by July 1994. This permanent pump would be ready for installation in Tank 241-SY-101 by March 1995. Until then, a premature failure of the test pump would allow the tank to revert to its previous unsafe condition. A spare pump, similar to the current test pump, can be fabricated much sooner than a newly designed permanent pump, thereby reducing the time at risk. Minor design improvements will improve the design life of the spare pump to that planned for the original permanent pump. In addition, significant cost savings would be realized in Fiscal Year 1995.

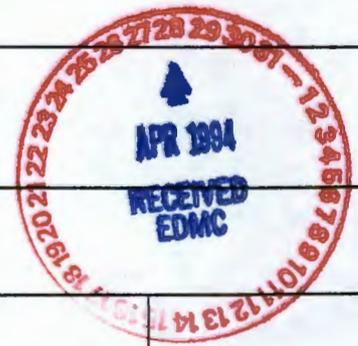
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Impact of Change  
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Affected Documents  
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Approvals

<u>[Signature]</u> DOE	4/20/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
<u>[Signature]</u> EPA	4/26/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
<u>[Signature]</u> Ecology	4/26/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved



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M-40-94-01 (cont.)

Description/Justification of Change (cont.)

The new milestone date of September 1994 includes both the design and fabrication of the spare pump. This is a significant improvement in the overall schedule for having a replacement pump available. Tank behavior is expected to provide sufficient time for the preparation and safe installation of the spare pump, should the test pump fail.

A decision on whether to complete a new design and fabricate a permanent mixer pump will be deferred, and the design effort halted. If the current test pump continues to operate satisfactorily, then a permanent pump of a new design will not be needed for the mitigation of the flammable gas hazards in this tank.

Impact of Change

The time when Tank 241-SY-101 is at risk of reverting to its previous unsafe behavior in the event of a premature failure of the test pump will be reduced by six months.

Overall fiscal year (FY) 1994 costs will be increased. A cost saving one cost account will be realized in FY 1994 by deferring completion of the 100% design on the new pump, but this will be more than offset by the cost to fabricate the spare pump in FY 1994. Future outlays to acquire a newly designed pump and to test the new pump will be considerably reduced. Total cost savings of more than \$5 million are anticipated in FY1995 if a newly designed pump is not needed.

Affected Documents

Hanford Federal Facility Agreement and Consent Order Action Plan - Appendix D, Work Schedule.

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