

# START

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Change Number M-40-94-04	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date August 12, 1994
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Class of Change  
 I - Signatories       II - Project Manager       III - Unit Manager

Change Title  
Revise Plan for Installation of Thermocouple Trees in Ferrocyanide Tanks

Description/Justification of Change

Milestone M-40-02 currently requires upgrading of temperature monitoring capabilities in the ferrocyanide tanks by April 1995. An interim milestone M-40-02B requires installation and operation of six of twelve new thermocouple (TC) trees in the ferrocyanide tanks by September 1994.

It is proposed that these milestones be revised to read as follows:

M-40-02 Upgrade temperature monitoring capabilities in ferrocyanide tanks. 9/30/95

Install and operate upgraded temperature monitoring capabilities in ferrocyanide tanks. This upgraded monitoring capability shall provide sufficient data on the temperature characteristics of the tanks to meet safety requirements. The installation of upgraded temperature monitoring in ferrocyanide tanks will allow continued operation of the tanks. This work will provide needed temperature information so that operating safety parameters can be assessed for the ferrocyanide tanks.

(Continued on page 2)

Impact of Change

Upgrade of the temperature monitoring capabilities in the ferrocyanide tanks will be delayed by five months to accommodate additional tank waste sampling requirements. The number of thermocouple trees to be installed will be reduced from twelve to seven.

Affected Documents

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

Approvals			
DOE <i>[Signature]</i>	8/25/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
EPA <i>[Signature]</i>	8/25/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
Ecology <i>[Signature]</i>	8/25/94	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

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Description/Justification (cont.)

M-40-02B Install two of seven new thermocouples.

4/30/95

Install two new thermocouple (TC) trees. Work includes procurement of required equipment, material, installation, and connection to the Tank Monitor and Control System (TMACS.)

There are two reasons for requesting this change:

1. Thermocouple tree installation is dependent upon the availability of tank risers for this purpose. Sampling for characterization of the tank waste also requires use of the tank risers and must be accomplished prior to installation of the TC trees in the available risers. Initial waste sampling plans were to take only two samples from a given tank, but sampling requirements have changed at the recommendation of the Defense Nuclear Facilities Safety Board. Multiple samples will be taken from some of these tanks, thus tying up additional risers until the sampling is completed for these tanks. In addition, recent surveys have found that some tanks do not have enough risers after the TC tree is installed to take the minimum two samples. The proposed milestone dates are based on work done on the new characterization schedule which gives priority to those tanks scheduled to receive new TC trees.

2. When these milestones were established there were twelve Ferrocyanide Watchlist tanks which required temperature monitoring upgrades. Two tanks have been recommended to the Department of Energy (DOE) for removal from the Watch List (241-BX-102 and 106,) and approval is in progress. Two of the tanks did not require installation of new TC trees since they already contained TC trees with replaceable elements (241-BY-105 and 106;) and one new TC tree was installed in April 1994 (241-BY-107.) This leaves only seven tanks to have TC trees installed. In the event DOE does not approve removal of tanks 241-BX-102 and 106 from the Watch List, TC trees will also be installed in those two tanks.

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