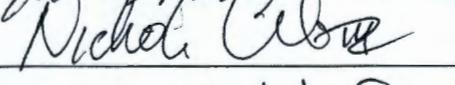
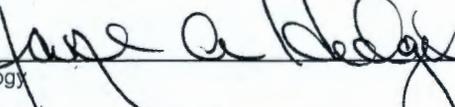
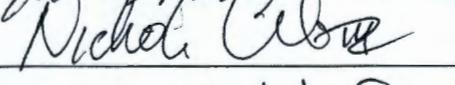
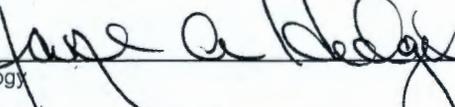
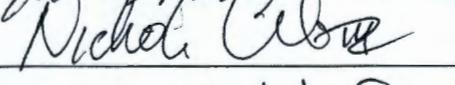
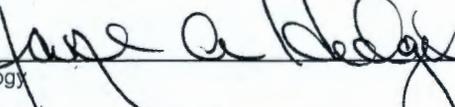


Change Number M-16-06-01	Federal Facility Agreement and Consent Order Change Control Form Do not use blue ink. Type or print using black ink.	Date February 15, 2006																														
Originator K. M. Thompson		Phone (509) 373-0750																														
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager																																
Change Title Establish Interim Milestone M-016-14, Complete Construction of a Permeable Reactive Barrier at 100-N.																																
Description/Justification of Change <p>The U. S. Department of Energy has agreed to construct and evaluate the effectiveness of a permeable reactive barrier, utilizing apatite sequestration technology as part of the CERCLA Remedial Investigation/Feasibility Study process and consistent with the requirement to evaluate alternative remedial technologies consistent with the 1999 Interim Remedial Action Record of Decision for the 100-NR-01 and 100-NR-02 Operable Units, Hanford Site, Benton County, Washington (ROD). The proposed treatability test for the treatment technology is consistent with the requirements and remedial action objectives of the ROD for Interim Action issued in 1999. Therefore, an "Explanation of Significant Difference" to the ROD for Interim Action is not required to construct the proposed barrier and evaluate the performance of this technology.</p> <p style="text-align: right;">Description/Justification of Change continued on page 2.</p> <div style="text-align: right; font-size: 2em; font-weight: bold; border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED FEB 28 2006 EDMC </div>																																
Impact of Change Two new M-16 milestones are established for the construction and evaluation of a 300 foot permeable reactive barrier utilizing apatite sequestration at 100-N.																																
Affected Documents Hanford Federal Facility Agreement and Consent Order, as amended.																																
Approvals <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%;">2/22/06</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%;">Approved</td> <td style="width: 10%;">Disapproved</td> </tr> <tr> <td>DOE</td> <td>Date</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2/22/06</td> <td style="text-align: center;">X</td> <td>Approved</td> <td>Disapproved</td> </tr> <tr> <td>EPA</td> <td>Date</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2/23/06</td> <td style="text-align: center;">X</td> <td>Approved</td> <td>Disapproved</td> </tr> <tr> <td>Ecology</td> <td>Date</td> <td></td> <td></td> <td></td> </tr> </table>			2/22/06	X	Approved	Disapproved	DOE	Date					2/22/06	X	Approved	Disapproved	EPA	Date					2/23/06	X	Approved	Disapproved	Ecology	Date				Page 1 of 2
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Description/Justification of Change continued:

The P&T as currently configured has been demonstrated to not meet the remedial action objectives (RAOs) of the 1999 ROD for Interim Action. It has been determined that the barrier technology should be tested under ambient field conditions to best evaluate the technology's effectiveness. The ROD for Interim Action allows the pump-and-treat system to be shut-down with Ecology approval; therefore no Explanation of Significant Difference (ESD) to the 1999 ROD for Interim Action is needed to shut-down the system. -

Therefore, the P&T system will be placed into cold standby status as follows:

- The pumping will cease upon approval of this change request;
- The treatment media removed;
- The system drained of water;
- The major system components will be readily available for restart until such time as a new alternative is chosen.

A 300 ft permeable reactive barrier as described in the document "Strontium-90 Treatability Test Plan for 100-NR-02 Groundwater Operable Unit; DOE-RL-2005-96, Draft A" (TTP) utilizing apatite sequestration will be in place by December 2006. The performance of the barrier will be evaluated after it has been in place 12 months.

During the 12-month period, DOE may, at its discretion and with notice to Ecology, perform further injections or other actions to enhance the performance of the barrier consistent with the approved treatability test plan. Following the 12-month evaluation period, a draft proposed plan to amend the ROD for Interim Action or to propose a new ROD will be submitted to Ecology by March 2008. Thereafter, the pump and treat system will remain in cold standby and DOE will continue to monitor barrier performance until the draft proposed plan is approved. The proposed plan will evaluate the performance of the 300-ft barrier as well as other alternatives including the pump and treat and select an appropriate effective alternative or combination of alternatives in accordance with CERCLA requirements. Other alternatives have been evaluated (e.g. the existing pump and treat system and technologies identified in DOE-RL, 2004. "Evaluation of Strontium-90 Treatment Technologies for 100-NR-2", Letter Report submitted to Ecology, October 2004)

Approval of this change form establishes 2 new interim milestones M-016-14(a) and M-016-14(b) in the Hanford Federal Facility Agreement and Consent Order, Appendix D as follows:

M-016-14(a)	Complete construction of a 300 foot permeable reactive barrier utilizing apatite sequestration at 100-N as described in "Strontium-90 Treatability Test Plan for 100-NR-02 Groundwater Operable Unit; DOE-RL-2005-96, Draft A".	December 31, 2006
M-016-14(b)	Submit a draft CERCLA Proposed Plan (PP) to either amend the 1999 100-NR-01/NR-02 ROD for Interim Action or to propose a new ROD. The PP will evaluate the permeable reactive barrier technology as well as other alternatives and select a new alternative in accordance with CERCLA requirements.	March 31, 2008