

Change Number M-16-00-02	Federal Facility Agreement and Consent Order Change Control Form Do not use blue ink. Type or print using black ink.	Date 6/26/00									
Originator RL/A. Tortoso		Phone 373-9631									
Class of Change <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager											
Change Title In Situ Redox Manipulation Barrier Implementation at the 100-D/DR western chromium-contaminated groundwater plume, 100-HR-3 Groundwater Operable Unit Agreement and Consent Order (Agreement).											
Description/Justification of Change <p>In April 1996, an Interim Remedial Action ROD for the 100-HR-3 Operable Unit was signed by the U.S. Environmental Protection Agency (EPA), State of Washington, Department of Ecology (Ecology), and the U.S. Department of Energy (DOE) directing removal of hexavalent chromium contamination from the groundwater at the 100-H and 100-D/DR reactors areas using pump and treat technology. The pump and treat systems were implemented and are operational.</p> <p>Since the issuance of the 1996 ROD, analysis of the results from pore water sampling along the Columbia River indicate an additional, separate plume of hexavalent chromium contamination southwest of the current 100-D/DR Area pump and treat system. The extent of this plume was subsequently delineated through the installation of groundwater monitoring wells and was determined not captured by the 100-HR-3 Operable Unit pump and treat system.</p> <p>Continued on Page 2</p>											
Impact of Change Remediation schedule will be set through the Remedial Design Report/Remedial Action Work Plan (RDR/RAWP) as appropriate dates in order to effectively drive work and allow measurement of progress. The establishment of the milestones set firm dates to examine the performance of this groundwater remediation effort.											
Affected Documents The Hanford Federal Facility Agreement and Consent Order, as amended											
Approvals <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><u>W. Wade Ballard</u> DOE</td> <td style="width: 20%;"><u>6/29/00</u> Date</td> <td style="width: 50%;"><input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Disapproved</td> </tr> <tr> <td><u>N/A</u> EPA</td> <td>_____ Date</td> <td><input type="checkbox"/> Approved <input type="checkbox"/> Disapproved</td> </tr> <tr> <td><u>Muel A. Weber</u> Ecology</td> <td><u>6/30/00</u> Date</td> <td><input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved</td> </tr> </table>			<u>W. Wade Ballard</u> DOE	<u>6/29/00</u> Date	<input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Disapproved	<u>N/A</u> EPA	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<u>Muel A. Weber</u> Ecology	<u>6/30/00</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
<u>W. Wade Ballard</u> DOE	<u>6/29/00</u> Date	<input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Disapproved									
<u>N/A</u> EPA	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved									
<u>Muel A. Weber</u> Ecology	<u>6/30/00</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved									

RECEIVED
AUG 14 2000

EDMC

RECEIVED

JUL 05 2000

DOE-RL/RLCC

A ROD Amendment was signed by the Tri-Parties in October 1999, changing the selected remedial action specified in the Interim Remedial Action ROD for the 100-HR-3 Operable Unit to deployment of a new innovative technology In Situ Redox Manipulation (ISRM) for remediation of the newly characterized chromium groundwater plume. The technology involves creating a permeable groundwater treatment barrier that reduces the mobility and toxicity of chromium in groundwater. Both a barrier construction plan and a compliance monitoring plan are presented in the Remedial Design Report/Remedial Action Work Plan (RDR/RAWP) (DOE/RL-99-51, Rev. 0, May 2000).

As stated in the ROD Amendment, the installation of a treatment barrier shall be initiated within the 15 months after signing the ROD Amendment and fully implemented by the end of fiscal year 2002, based on current knowledge of the plume and implementability of the treatment technology. Designs and schedules will be implemented in accordance with the RDR/RAWP. The RDR/RAWP schedule separates barrier emplacement into three phases: FY00, FY01, and FY02. Each phase consists of three tasks: Planning, Well Installation, and Well Injection/Extractions (barrier installation).

Milestones are established to track progress of the ISRM emplacement. Ecology, EPA, and DOE Project Managers agree that interim milestones will be established for the following actions:

M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement, Planning, Well Installation, and Barrier Emplacement	12/31/00
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement, Planning, Well Installation, and Barrier Emplacement	12/31/01
M-16-27C	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement, Planning, Well Installation, and Barrier Emplacement	09/30/02