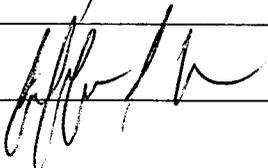
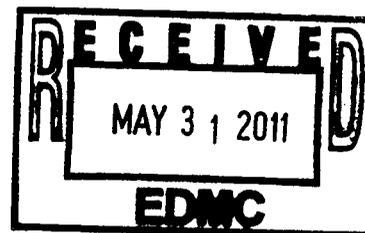


Change Number M-45-11-05	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date April 30, 2011
Originator Jeremy M. Johnson, DOE-ORP Tank Farms Programs & Projects Division		Phone (509) 376-1866
Class of Change <input type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input checked="" type="checkbox"/> III - Project Manager		
Change Title Modify two of the dates of completion for the new M-045-91 Target Dates for Single-Shell Tanks (SSTs) implementing the expert panel's recommendations and to better align the work and provide enhanced comprehensive documents.		
Description/Justification of Change Hanford Federal Facility Agreement and Consent Order (HFFACO), Milestone M-045-91, requires that the U.S. Department of Energy (DOE), Office of River Protection (ORP) incorporate the Expert Panel's findings to develop an Integrity Assessment Program for the SSTs. This change modifies completion dates of target milestones M-045-91-F T02 and M-045-91B-T01 to better align the work being completed under the M-045-91 milestone series to improve the Tri-Parties understanding of Single-Shell Tank (SST) integrity. Continued on page 2		
Impact of Change This is a minor change of dates for two M-045-91 Target Milestones and does not significantly impact environmental or worker safety or other TPA requirements.		
Affected Documents The HFFACO as amended and Hanford Site internal planning, management, and budget documents (e.g., River Protection Project System Plan, Baseline Control documents, and related work authorizations and directives).		
Approvals		
DOE	 _____	5/24/11 <input checked="" type="checkbox"/> Approved _____ Disapproved _____ <small>Date</small>
EPA	N/A _____	_____ Approved _____ Disapproved _____ <small>Date</small>
Ecology	 _____	5/25/11 <input checked="" type="checkbox"/> Approved _____ Disapproved _____ <small>Date</small>

Description/Justification of Change (continued)



The first proposed change is to clarify a calendar date of September 30, 2014 for the completion of M-045-91B-T01 "Sidewall Core Testing Results" or Expert Panel Recommendation SI-3. Previously the milestone stated a completion date of September 2014.

The second proposed change is to extend the completion date for M045-91F-T02 "Common Factors of Liner Failures" or Expert Panel Recommendation LD-6 from January 31, 2012 to July 31, 2013. This extension better aligns the work being performed for both M-045-91F-T02 "Common Factors of Liner Failures" with M045-91F-T04 "Expanded Leak Assessments" and Expert Panel Recommendation LD-1, due July 31, 2013.

The attached table contains the specific milestones modifications to the Tri-Party Agreement under Appendix D of the Action Plan.

Specific changes to Tri-Party Agreement Appendix D are displayed with double underline to indicate addition of text and by ~~strikeout~~ to indicate deletion of text.

M-045-91B	DOE shall submit a Sampling and Analysis Plan to Ecology, for approval, for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology. DOE shall implement the EPA Data Quality Objectives (DQO) process (EPA/240/B-06/001, February 2006) in consultation with Ecology to develop the Sampling and Analysis Plan. The DQO will consider whether the coring should be conducted and whether tank A-106 or an alternate tank should be cored. Archived concrete samples will be retained for possible chemical resistance testing.	December 30, 2011
M-045-91B-T01	DOE shall provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete core obtained from Tank A-106 or alternate tank.	September 30 , 2014
M-045-91C	DOE shall implement the DQO process, in consultation with Ecology, to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43116, Rev 0, Expert Panel Report for Hanford Site Single-Shell Integrity Project.	September 30, 2011
M-045-91D	DOE shall submit to Ecology, for approval, an analytical test plan for the cores removed from the C-107 plug.	March 31, 2012
M-045-91D-T01	DOE shall provide Ecology a report containing the results and interpretation of testing, and analysis, performed on the concrete dome samples obtained from the Tank C-107 plug.	May 31, 2013
M-045-91E	DOE shall provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013.	September 30, 2013
M-045-91F	DOE shall provide to Ecology, for approval, a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through -T04.	December 31, 2013
M-045-91F-T01	DOE shall provide to Ecology as a HFFACO secondary document, a report evaluating the applicability to Hanford SSTs, of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site.	January 31, 2012
M-045-91F-T02	DOE shall provide to Ecology as a HFFACO secondary document a report, evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation. For purposes of this milestone, the SSTs that have leaked are identified through the RPP-32681, Rev 0, Process to Assess Tank Farm Leaks in Support of Retrieval and Closure Planning.	January 31, 2012 <u>July 31, 2013</u>
M-045-91F-T03	DOE shall provide to Ecology, as a HFFACO secondary document, a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs.	May 31, 2013

M-045-91F-T04	<p>DOE shall provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Process to Assess Tank Farm Leaks in Support of Retrieval and Closure Planning, leak assessment reports. This report will use an interagency assessment process as described in Section 4.0 of RPP-32681, Rev 0.</p> <p>The report will include identification and evaluation of leak locations and leak causes (including chemistry stress corrosion cracking - SCC) for at least the twenty 100-series tanks currently identified as having leaked; include a leak rate estimate for tanks A-105 and U-104; and include a recommendation whether to update and revise the leak assessment reports to include the leak information. Additional leaking tanks identified as the process continues will be included in the report.</p> <p>For purposes of this milestone, the terms, "confirmed leaker," "assumed leaker," and "leaker" are equivalent descriptions.</p>	July 31, 2013
M-045-91G	<p>DOE shall provide, for Ecology approval, a Summary Conclusions Report of Structural Analyses of Record (AOR) for SSTs. This report shall provide conclusions from the four separate AORs and be certified by an IQRPE.</p> <p>530, 000 gallon tanks (B, BX C, T and U Farms) 750, 000 gallon tanks (BY, S, TX and TY Farms) 1,000,000 gallon tanks (A, AX and SX Farms) 55,000 gallon tanks (B, C, T and U Farms)</p>	April 30, 2014
M-045-91G-T01	<p>Provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 530, 000 gallon tanks (B, BX, C, T and U Farms)</p>	September 30, 2011
M-045-91G-T02	<p>DOE shall provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 750, 000 gallon tanks (BY, S, TX and TY Farms)</p>	January 31, 2012
M-045-91G-T03	<p>DOE shall provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 1,000,000 gallon tanks (A, AX and SX Farms)</p>	September 30, 2012
M-045-91G-T04	<p>DOE shall provide to Ecology the Structural Analyses of Record final documentation for SSTs for: 55,000 gallon tanks (B, C, T and U Farms)</p>	October 31, 2013

M-045-91G-T05	<p>DOE shall provide a Report to Ecology documenting and evaluating the Visual Inspection of 12 SSTs, per the criteria listed in Table 3.3, "Criteria for Single Shell Tank Inspections", in RPP-PLAN-46847, Rev.0, "Visual Inspection Plan for Single-Shell Tanks and Double-Shell Tanks"</p> <p>By visually inspecting these tanks, future inspections can be prioritized to focus first on tanks that have similar characteristics to tanks that have shown signs of degradation.</p>	March 31, 2011
M-045-91G-T06	<p>DOE shall provide a Report to Ecology documenting and evaluating the Visual Inspection of 12 SSTs, per criteria in M-045-91G-T05. The need for additional visual inspections will be jointly decided by Ecology and ORP following March 31, 2012 (submittal of the report that meets this Target Date).</p>	March 31, 2012
M-045-91H	<p>DOE shall submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date.</p>	July 31, 2015
M-045-91I	<p>DOE shall provide, to Ecology, an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify. The analysis supporting the certification shall be performed in accordance with the requirements identified for analysis in WAC 173-303-640(2) and will include a due diligence review of RPP-10435. IQRPE certification of the SST leak integrity is not required. A work plan and schedule for additional integrity assessment activities will be submitted as a change package to cover any time period between the end date of the IQRPE certification and the end date of the mission.</p>	September 30, 2018