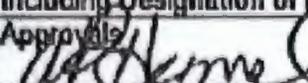
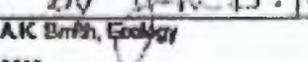
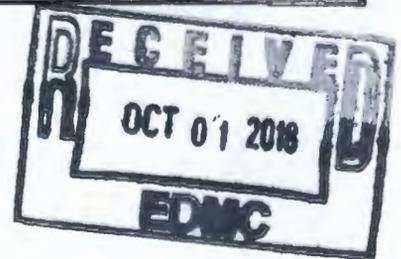


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Change Number M-92-18-02	Federal Facility Agreement and Consent Order Change Control Form	Date 03/28/2018
Originator Al Farabee	Phone (509) 376-8089	
Class of Change <input type="checkbox"/> I - Signatories	<input checked="" type="checkbox"/> II - Executive Managers	<input type="checkbox"/> III - Project Managers
Change Title Modification of Interim Milestone M-092-09 (Bulk Sodium)		
Description/Justification of Change <p>This change control form modifies the due date for Interim Milestone M-092-09 from "09/30/2018" to "12/31/2026."</p> <p>This change control form also changes the scope of Interim Milestone M-092-09 from a commitment to establish milestones and target dates, to actual identification of the interim and target milestones for processing and disposal of Hanford site sodium.</p> <p>The Record of Decision in the Final Tank Closure and Waste Management Environmental Impact Statement for the Hanford Site states that "bulk sodium inventories located at Hanford will be converted to caustic sodium hydroxide in a sodium reaction facility at Hanford, and then stored for ultimate use in the WTP." The largest demand for the sodium hydroxide is in the WTP Pretreatment Facility, which will operate from 2033 to 2047, according to the Amended Consent Decree Between Department of Energy (DOE) and State of Washington, Case 2:08-cv-05085-RMP, Document 222, dated March 11, 2016.</p> <p>Interim Milestone M-092-09 will be changed to require a conceptual design report (30% design) for the sodium reaction facility to be submitted to the Washington State Department of Ecology (Ecology) by December 31, 2026.</p> <p>Newly proposed Target Milestones M-092-09-T01 and M-092-09-T02 set forth the remaining actions to complete the preliminary and final designs for the sodium reaction facility to be submitted to the Ecology. Target Milestones M-092-09-T01 and M-092-09-T02 will be converted to interim enforceable milestones based on each prior milestone.</p>		
Impact of Change This change control form modifies interim milestone M-092-09 and establishes target milestones M-092-09-T01 and M-092-09-T02.		
Affected Documents HFFACO (Tri-Party Agreement) Action Plan Appendix D, "Work Schedule Milestones and Target Dates Including Designation of Lead Regulatory Agency."		
Approvals  W.F. Harrel, DOE by  K. Smith by  A.K. Smith, Ecology N/A EPA	Date 9/27/18 Date 9/27/28 Date	Approved <input checked="" type="checkbox"/> Disapproved _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Approved _____ Disapproved _____ Approved _____ Disapproved _____
		Page 1 of 3





**Description/Justification of Change (continued)**

Until needed for use in WTP, it is safer to continue to store the bulk sodium than to convert it to a much larger volume of aqueous sodium hydroxide.

The change to Interim Milestone M-092-09, establishing a date of December 31, 2026 for conceptual design, and newly proposed Target Milestones M-092-09-T01 and M-092-09-T02 to complete the design are included in this change form.

**Authorized Changes**

Modifications to the HFFACO are displayed by using double underline to indicate added text and ~~strikeout~~ to indicate deleted text.

Number	Milestone	Due Date
<p><b>M-092-09</b> Lead Regulatory Agency: Ecology</p>	<p><del>Establish milestones and/or target dates if needed for acquisition of new facilities, modifications of existing facilities, and /or modification of planned facilities necessary for storage, treatment/processing, and disposal of Hanford site sodium.</del></p> <p><u>Submit to Ecology, a Conceptual Design Report Package (30% design) for the sodium reaction facility/capability to convert Hanford bulk sodium to aqueous sodium hydroxide to be used in the Hanford Waste Treatment and Immobilization Plant (WTP).</u></p> <p><u>The Conceptual Design Report package shall include the Conceptual Design Report, Functional Requirements Document, Functional Design Criteria Document, preliminary drawings, DOE expectations for safety in design (or a preliminary hazard analysis report if below nuclear Hazard Category 3), preliminary cost estimate, and preliminary schedule for the design, construction, and operation of the facility.</u></p> <p><u>The preliminary schedule for the design, construction and operation of the facility referred to in the paragraphs above shall not be enforceable.</u></p> <p><u>DOE shall submit with the Conceptual Design Package a TPA Change Control Form (in accordance with TPA Action Plan Section 12.0) to replace the M-092-09-T01 target date for Preliminary Design with an enforceable interim milestone drawn from the conceptual design package schedule with allowance added to address schedule margin.</u></p>	<p>09/30/2018</p> <p><u>12/31/2026</u></p>

**Authorized Changes (continued)**

Modifications to the HFFACO are displayed by using double underline to indicate added text and ~~strikeout~~ to indicate deleted text.

Number	Milestone	Due Date
<p><b><u>M-092-09-T01</u></b>  <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Submit to Ecology, a Preliminary Design Report package (60% design) for the sodium reaction facility to convert Hanford bulk sodium to aqueous bulk sodium.</u></p> <p><u>The Preliminary Design Report package shall include the Preliminary Design Report and updated documents including: Functional Requirements Document, Functional Design Criteria Document, preliminary drawings, DOE expectations for safety in design (or a preliminary hazard analysis report if below nuclear Hazard Category 3), preliminary cost estimate, and preliminary schedule for the design, construction, and operation of the facility.</u></p> <p><u>This target date will be updated and converted to an enforceable interim milestone in accordance with the TPA Change Control Form submitted pursuant to M-092-09.</u></p> <p><u>DOE shall submit with the Preliminary Design Package a TPA Change Control Form (in accordance with TPA Action Plan Section 12.0) to replace the M-092-09-T02 target date for Final Design with an enforceable interim milestone drawn from the preliminary design package schedule with allowance added to address risk-informed schedule margin.</u></p>	<p><u>06/30/2028</u></p>
<p><b><u>M-092-09-T02</u></b>  <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Submit to Ecology, a Final Design Report (90%-100%) design package for the sodium reaction facility to convert Hanford bulk sodium to aqueous bulk sodium.</u></p> <p><u>The Final Design Report package shall include the Final Design Report and updated documents including: Functional Requirements Document, Functional Design Criteria Document, final drawings, DOE expectations for safety in design (or a preliminary hazard analysis report if below nuclear Hazard Category 3), cost estimate, schedule for the design, construction, and operation of the facility, and punchlist, if needed.</u></p> <p><u>This target date will convert to an enforceable milestone in accordance with the TPA Change Control Form submitted pursuant to M-092-09-T01.</u></p>	<p><u>09/30/2029</u></p>