



Department of Energy  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

95-WPD-065

DEC 28 1995

Mr. Mike Wilson, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
P. O. Box 47600  
Olympia, Washington 98504-7600

Dear Mr. Wilson:

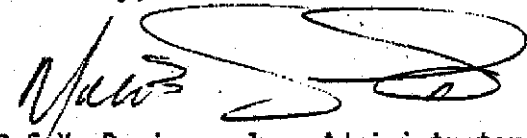
COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) MAJOR MILESTONE M-33-00 AND TARGET DATE M-33-00-T04

The U.S. Department of Energy, Richland Operations Office (RL) submits the two (attached) Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) change packages for the completion of major milestone M-33-00 (acquisition/modification of required solid waste and material facilities) and target milestone M-33-00-T04 (proposing additional milestones).

This submittal initiates formal negotiation between the State of Washington Department of Ecology and RL as agreed to in the previously approved Agreement in Principle for Solid Waste and Materials (M-33), dated June 30, 1995.

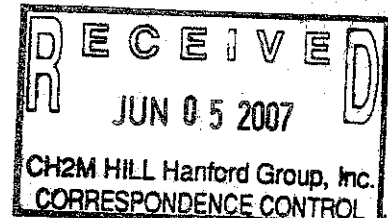
If you have any questions or require additional information, please contact Mr. J. M. Augustenborg on (509) 372-1407.

Sincerely,

  
for P.F.X. Dunigan, Jr., Administrator  
Hanford Tri-Party Agreement

Enclosures

cc w/encl:  
B. Burke, CTUIR  
M. Jaraysi, Ecology  
R. Julian, Ecology  
M. Riveland, Ecology  
R. Stanley, Ecology  
D. Sherwood, EPA  
D. Powaukee, NPT  
L. Arnold, WHC  
R. Jim, YIN



Change Number <b>M-90-95-01</b>	<b>Federal Facility Agreement and Consent Order          Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	Date <b>12/14/95</b>
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Originator <b>C. A. Hansen</b>	Phone <b>376-7434</b>
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Class of Change <input checked="" type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager
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Change Title

Creation of New Major Milestone (M-90) for treatment, storage, and disposal/disposition of solid wastes and materials.

Description/Justification of Change

The M-33 milestone was established to develop additional milestones for Treatment, Storage, and/or Disposal (TSD) of solid waste and materials based on the results of the "Site Wide Systems Analysis". As part of this analysis, an Engineering Study (WHC-SD-WM-ES-341) was completed to evaluate alternatives that could be used as a basis for a Change Package to satisfy the M-33 milestone.

This Engineering Study identified requirements for treatment, interim storage, and disposal/disposition of the Hanford Site solid wastes and materials which are not presently addressed in existing Tri-Party Agreement milestones. This Change Package satisfies the intent of the M-33 milestone by establishing new milestones to provide for disposition of solid wastes and materials.

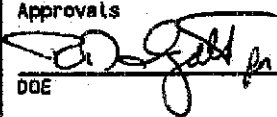
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Impact of Change

This change request fulfills the requirements of Tri-Party Agreement milestone M-33-00 and establishes a new major milestone, interim milestones, and target dates for disposition of solid wastes and materials.

Affected Documents

Hanford Federal Facility Agreement and Consent Order, Fourth Amendment, January 1994, Appendix D (Table D and Action Plan Work Schedule).

Approvals <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">             J.D. Wagoner         </div> <div style="width: 30%;">           Date <u>12/29/95</u> </div> <div style="width: 30%;"> <input checked="" type="checkbox"/> Approved    <input type="checkbox"/> Disapproved         </div> </div> <hr/> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">EPA</div> <div style="width: 30%;">Date _____</div> <div style="width: 30%;"> <input type="checkbox"/> Approved    <input type="checkbox"/> Disapproved         </div> </div> <hr/> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">Ecology</div> <div style="width: 30%;">Date _____</div> <div style="width: 30%;"> <input type="checkbox"/> Approved    <input type="checkbox"/> Disapproved         </div> </div>	
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**Description/Justification of Change (continued)**

The scope of this Change Package is to complete the disposition of Transuranic (TRU) waste, Low Level Mixed Waste (LLMW), Unirradiated Uranium, Strontium and Cesium Capsules, Spent Nuclear Fuel (SNF), Special Case Waste (SCW), Immobilized Low Activity Waste (LAW), and High Level Waste (HLW). Treatment/processing of Hallam and SRE sodium will be addressed by TPA Change Package M-81-95-01. This Change Package addresses disposition of certain nuclear materials in accordance with unenforceable target dates. The inclusion of nuclear materials as subject matter in this Change Package, nor the creation of unenforceable target dates in connection with such material may not be read to imply, nor otherwise be recognized in any manner, as an acknowledgment by the U.S. Department of Energy (DOE) that the U.S. Environmental Protection Agency (EPA) or the Washington Department of Ecology (Ecology) have any regulatory authority over source, special nuclear or by-product materials as defined by the Atomic Energy Act.

The new milestones are:

Milestone Number	Milestone Description	Date Due
M-90-00	Complete Actions Specified by Agreed Interim Milestones Related to Treatment, Storage, and Disposal of Hanford Site Solid Wastes and Materials.	TBD
M-90-01A	Select Methodology for Out-Sourcing or Onsite Capability for Remote-Handled (RH) TRU and for Contact-Handled (CH) Non-Standard Containers of TRU Waste.  This Milestone will require a decision on modifying existing facilities or contracting with a private firm for construction of new facilities for processing of RH TRU and non-standard containers of CH TRU. The method or strategy chosen for TRU processing/treatment will be required to meet the Waste Acceptance Criteria for Disposal at the Waste Isolation Pilot Plant (WIPP).	TBD
M-90-01B	Initiate Processing Operations for RH TRU and for Contact-Handled Non-Standard Containers of TRU Waste.  This Milestone will require initiation of Hot Operations for RH TRU processing/treatment. Capability will also be provided to process/treat other CH TRU wastes that cannot be accepted by WRAP 1. The processing facility (facilities) will be sized to accommodate RH TRU and non-standard containers of CH TRU Waste to be generated.	TBD
M-90-01C	Develop Disposition/Processing Plan for Post-1970 Buried Transuranic and Transuranic Mixed Waste (TRUM)  The Disposition/Processing Plan will provide a risk-based approach for retrieval, repackaging, processing and disposal for Post-1970 Buried TRU and TRUM Wastes. The Disposition Plan will include an assessment of the condition of the existing containers and an evaluation of the risk posed by intrusive retrieval operations.	December 2010

## Description/Justification of Change, (continued)

Milestone Number	Milestone Description	Date Due
M-90-01D	Develop Disposition Plan for Pre-1970 Buried Suspect TRU Wastes to be retrieved from the 618-11 Burial Grounds.  The Disposition Plan for the wastes retrieved in the remediation of the 618-11 Burial Grounds will provide a risk-based approach for the long-term management of these suspect TRU Wastes.	TBD
M-90-02	Complete Disposition of Low-Level Mixed Waste (LLMW).  Disposition of LLMW includes establishing all necessary treatment, storage, and disposal functions for LLMW.	TBD
M-90-02A	Select Methodology for Out-Sourcing or Onsite Capability for Remote Handled (RH) LLMW and for Contact-Handled (CH) Non-Standard Containers of LLMW.  This milestone will require a decision on modifying an existing facility (facilities) or contracting with a private firm for construction of a new facility (facilities) to process RH LLMW and non-standard containers of CH LLMW. The treatment method for LLMW will be required to meet the Land Disposal Restrictions (LDR) Regulations for Treatment.	TBD
M-90-02B	Initiate Processing Operations for RH LLMW and for Contact-Handled Non-Standard Containers of LLMW.  This milestone will require initiation of Hot Operations for treatment of RH LLMW and non-standard containers of CH LLMW at either an onsite facility operated by DOE, or at a private firm. The facility (facilities) will be sized to accommodate all RH LLMW and non-standard containers of CH LLMW to be generated.	TBD
M-90-03-T01	Complete Final Disposition of Unirradiated Uranium.  Disposition of Unirradiated Uranium will include establishing storage and disposal functions for all excess Unirradiated Uranium that cannot be transferred to commercial use.	TBD
M-90-03-T02	Transfer All Excess Unirradiated Uranium Presently Stored in the 300 Area Fuel Supply Facilities and UO <sub>3</sub> Powder Presently Stored in T-Hopper's Adjacent to the U-Plant to a Consolidated Storage Facility.	TBD

## Description/Justification of Change, (continued)

Milestone Number	Milestone Description	Date Due
	This Milestone will provide for the consolidated interim storage of the bulk of the remaining excess Unirradiated Uranium and UO <sub>3</sub> Powder from various onsite locations.	
M-90-03-T03	Complete Final Disposition (Commercial Use or Disposal) of Excess Unirradiated Uranium as Described in Milestone M-90-03-T02.	TBD
	The purpose of this Milestone is to transfer to a facility for future use and/or to repackage and dispose of excess Unirradiated Uranium as described in milestone M-90-03-T02.	
M-90-04-T01	Determine Final Disposition Plans for Cesium and Strontium capsules.	TBD
M-90-05-T01	Complete Transfer of 300 Area Irradiated Fuel to Dry Storage This Milestone will be achieved by the transfer of 300 Area Irradiated Fuel to Dry Storage	December 2015
M-90-05-T02	Complete Transfer of PFP Irradiated Fuel to Dry Storage This Milestone will be achieved by the transfer of PFP Irradiated Fuel to Dry Storage.	December 2015
M-90-05-T03	Complete Transfer of T-Plant Spent Nuclear Fuel to Dry Storage. This milestone will be achieved by the transfer of T-Plant Spent Nuclear Fuel to Dry Storage.	December 2015
M-90-06-T01	Complete Disposition of 300 Area Special-Case Waste and Materials Inventory. This milestone will require establishing treatment (if necessary), storage, and disposal options for the Special-Case Waste and materials inventory currently located in the 300 Area. 300 Area Special-Case Waste and materials include: Federal Republic of Germany (FRG) Melter Residue, Borosilicate Glass Containers, Nonfuel-Bearing Reactor Components, Neptunium Oxide Powder, Strontium Fluoride, and Cesium Chloride.	TBD
M-90-06-T02	Remove Special Case Waste from Building 324 This milestone will require packaging and shipment of the Special Case Waste in the 324 Building to the appropriate treatment, storage, or disposal facility (facilities).	TBD

## Description/Justification of Change, (continued)

Milestone Number	Milestone Description	Date Due
M-90-06-T03	Assess Special Case Waste in Building 325	TBD
	This milestone will require completion of an inventory and an evaluation of the removal options for the Special Case Waste located in the 325 Building. The evaluation of removal options will consider packaging and shipment requirements to meet the Waste Acceptance Criteria for the facility (facilities) that could accept the various waste types.	
M-90-06-T04	Assess Special Case Waste in Building 327	TBD
	This milestone will require completion of an inventory and an evaluation of the removal options for the Special Case Waste located in the 327 Building. The evaluation of removal options will consider packaging and shipment requirements to meet the Waste Acceptance Criteria for the facility (facilities) that could accept the various waste types.	
M-90-06-T05	Assess Special Case Waste in the Remaining 300 Area Facilities.	TBD
	This milestone will require completion of an inventory and an evaluation of the removal options for the Special Case Waste located in the remaining 300 Area Facilities. The evaluation of removal options will consider packaging and shipment requirements to meet the Waste Acceptance Criteria for the facility (facilities) that could accept the various waste types.	
M-90-07	Complete Disposition of Immobilized Low Activity Waste (LAW).	TBD
M-90-07A	Initiate Hot Operations of LAW Interim Storage Facility.	TBD
M-90-07-T01	Initiate Construction of LAW Interim Storage Facility.	TBD
M-90-07B	Initiate Hot Operations of LAW Disposal Facility.	TBD
M-90-07-T02	Initiate Construction of LAW Disposal Facility.	TBD
M-90-08	Complete Final Disposition of High Level Waste (HLW).	TBD
	This milestone will provide for the transfer (shipment) of immobilized high-level waste products to an off-site geologic repository. The final disposition date is dependent upon the receipt schedule for high-level waste products at the off-site geologic repository.	

## Description/Justification of Change, (continued)

Milestone Number	Milestone Description	Date Due
M-90-08A	Initiate Hot Operations of Phase I Privatization High-Level Immobilized Waste Product Interim Storage Facility.	TBD
M-90-08-T01	Initiate Construction of Phase I Privatization High-Level Immobilized Waste Product Interim Storage Facility.	TBD
M-90-08B	Initiate Negotiations for Phase II privatization High-Level Immobilized Waste Product Interim Storage Milestones.	TBD

Change Number <b>M-81-95-01</b>	<b>Federal Facility Agreement and Consent Order</b> <b>Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	Date <b>12/01/95</b>
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Originator <b>L. L. Piper</b>	Phone <b>376-7435</b>
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Class of Change

I - Signatories     
  II - Executive Manager     
  III - Project Manager

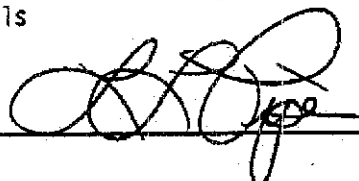
Change Title    **Modification of Target Milestone M-81-02-T01 to include Hallam and Sodium Reactor Experiment (SRE) sodium.**

Description/Justification of Change    The M-81 major milestone for the Fast Flux Test Facility (FFTF) transition was established in July 1995 with the Fifth Amendment to the Hanford Federal Facility Agreement and Consent Order. The existing Target Milestone M-81-02-T01 is for establishing a decision point for disposition of FFTF sodium. This Change Package modifies M-81-02-T01 to include disposition of Hallam and Sodium Reactor Experiment (SRE) sodium within the scope of this milestone.

Continued on page 2.

Impact of Change    This change request partially fulfills the requirements of Tri-Party Agreement milestone M-33-00 and modifies M-81-02-T01 to include disposition of Hallam and SRE sodium.

Affected Documents    Hanford Federal Facility Agreement and Consent Order, Fourth Amendment, January 1994, Appendix D (Table D and Action Plan Work Schedule) and Fifth Amendment, July 1995, Chapter 14.

Approvals   _____ DOE	_____ Date <b>12/27/95</b>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	
_____ EPA	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	
_____ Ecology	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	

Change Number M-81-95-01

Description/ Justification of Change, continued from page 1.

The modifications to M-81-02-T01 is as follows:

Milestone Number	Milestone Description	Due Date
M-81-02-T01	<p>Submit sodium disposition evaluation report/decision point.</p> <p>Complete an evaluation of the acceptable sodium product form for the TWRS tank sludge pretreatment process (i.e., caustic washing). This evaluation will be conducted in concert with TWRS TPA milestone M-50-03 (due date March 31, 1998). The evaluation will address other disposition options for the FFTF and Hallam and SRE sodium if the product use for TWRS is not viable. Regardless of which option is selected, a new sodium reaction facility will be constructed adjacent to the Sodium Storage Facility to convert the bulk metallic sodium to the appropriate chemical form. This includes a decision on the final disposition of the sodium (e.g., disposal or re-use). Appropriate milestones and target dates will be established for construction and operation of the Sodium Reaction Facility based on the option selected.</p>	June 1998