



U.S. Department of Energy Hanford Site

21-PFD-003163

December 13, 2021

Mr. David B. Bowen, Program Manager
Nuclear Waste Program
Washington State Department of Ecology
3100 Port of Benton Boulevard
Richland, Washington 99354

Dear Mr. Bowen:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) TARGET MILESTONES M-091-47-T01 AND M-091-47-T02

The purpose of this letter is to notify the Washington State Department of Ecology (Ecology) of the completion of Tri-Party Agreement (TPA) Target Milestones M-091-47-T01 and M-091-47-T02, due September 30, 2021 and September 30, 2022, respectively. These milestones require the U.S. Department of Energy (DOE) to “Certify or treat 280 cubic meters of transuranic mixed (TRUM) waste and mixed low-level waste (MLLW). DOE achieves credit towards this volumetric requirement through some combination of 1) certification of small or large container TRUM waste or 2) treatment and disposal of MLLW from small or large containers. Certification of TRUM waste and MLLW and/or treatment and disposal of MLLW in excess of the volumetric requirement of previous M-091-47 series target dates can be credited towards future M-091-47 series target dates.” The completion of M-91-47-T01 was not previously reported due to the ongoing M-091 milestone negotiations that were concluded on October 1, 2021.

A list of processed containers to be applied towards these milestones are contained in Attachment 1 and Attachment 2, including carryover volumes in excess of 280 cubic meters.

Milestone M-91-47-T02 also requires DOE to “Submit to Ecology a TPA Change Control Form (in accordance with the TPA Action Plan Section 12.0) to establish the next two annual target dates for certification of TRUM waste and disposal of MLLW.” The TPA Change Control Form (Attachment 3) that establishes the next series of treatment milestones (T03/T04) has been signed by DOE and is included for your signature.

If you have any questions, please contact me, or your staff may contact Kelly Ebert, Capital Projects Team Lead, Project and Facilities Division, on (509) 376-7756.

Sincerely,

**MARK
FRENCH**

Digitally signed by
MARK FRENCH
Date: 2021.12.13
14:37:03 -08'00'

Mark S. French, Director
Project and Facilities Division

PFD:KAB

Attachments:

1. M-091-47-T01
2. M-091-47-T02
3. TPA Change Control Form

cc w/attachs:

J. Bell, NPT
R. Buck, Wanapum
L. Contreras, YN
D. R. Einan, EPA
N. M. Menard, Ecology
M. Murphy, CTUIR
J. B. Price, Ecology
S. N. Schleif, Ecology
S. Wiegman, HAB
M. Woods, ODOE
Administrative Record (M-091-47-T01, M-091-47-T02)
Environmental Portal

cc w/o attach:

T. B. Bergman, CPCCo
S. L. Brasher, HMIS
S. W. Davis, HMIS

Attachment 1
21-PFD-003163

TPA Milestone M-091- 47-T01
TRUM/MLLW Waste Validation Data Report

2 pages including cover sheet

TPA Milestone M-091- 47-T01 (280-m³) TRUM/MLLW Waste Validation Data Report

TPA	Shipment Number	Shipment Date to PFNW	Shipped Waste Package IDs (PINs)	Waste Removed From CWC Location	Waste Volume Shipped (m3)	Shipped Waste Package Type	Return Shipment Number	Return Shipment Date (Completion Date)	Waste Volume Completed (m3)[1]	Returned TRUM Waste Packages	Returned TRUM Waste PINs
M-091-47-T01	Extra Volume Carried Forward After Meeting M-091-47D =								5.5		
M-091-47-T01	TC160	8/15/17	I-BOX-5	CWC-OSAA	11.0	Metal Box (RSW)	TR1710	9/14/17	11.0	4 SWB's	MW17800044 MW17800045 MW17800046 MW17800047
M-091-47-T01	TC165	10/19/17	762DMAF21	CWC-OSAA	54.4	FRP (RSW)	TR1714	11/30/17	54.4	5 SWB's	MW17800050 MW17800051 MW17800052 MW17800053 MW17800054
M-091-47-T01	TC177	10/26/17	B16751B23	CWC-OSAA	9.9	FRP (RSW)	TR1715	12/7/17	9.9	3 SWB's	MW17800055 MW17800056 MW17800057
M-091-47-T01	TC179	12/7/17	WH-76-630	CWC (2403WD)	5.1	Metal Box (RSW)	TR1802	1/2/18	5.1	2 SWB's	MW17800058 MW17800059
M-091-47-T01	TC172	12/21/17	762DMA20F	CWC-OSAA	54.4	FRP (RSW)	TR1804	2/6/18	54.4	5 SWB's	MW18800001 MW18800002 MW18800003 MW18800004 MW18800005
M-091-47-T01	MLLW1804	2/13/18	0078225	CWC (2403WD)	6.4	Metal Box (RSW)	CH1802	3/29/18	6.4	Metal Waste Box	MW18700022
M-091-47-T01	MLLW1805	2/15/18	ZB754-002	CWC-OSAA	17.3	Metal Box (RSW)	CH1802	3/29/18	17.3	Metal Waste Box	MW18700024
M-091-47-T01	TC163	2/27/18	ZBB78121.B	CWC-OSAA	38.1	FRP (RSW)	TR1805	4/5/18	38.1	6 SWB's	MW18800006 MW18800007 MW18800008 MW18800009 MW18800010 MW18800011
M-091-47-T01	TC166	3/29/18	762DMA18	CWC-OSAA	54.4	FRP (RSW)	TR1808	5/1/18	54.4	4 SWB's	MW18800012 MW18800013 MW18800014 MW18800015
M-091-47-T01	TC164	4/26/18	2345Z6-21	CWC-OSAA	43.5	FRP (RSW)	TR1806	5/31/18	43.5	10 SWB's	MW18800016 MW18800017 MW18800018 MW18800019 MW18800020 MW18800021 MW18800022 MW18800023 MW18800024 MW18800025
Total Waste Volume Completed as-of 05/31/2018 =									1,420.8		
Volume (m3) Counted Toward M-091-47A (Completed 09/10/2015) =									280.0		
Volume (m3) Counted Toward M-091-47B (Completed 02/11/2016) =									280.0		
Volume (m3) Counted Toward M-091-47C (Completed 11/03/2016) =									280.0		
Volume (m3) Counted Toward M-091-47D (Completed 08/08/2017) =									280.0		
Volume (m3) Counted Toward M-091-47-T01 (Completed 05/31/2018) =									280.0		
Extra Volume to Carried Forward After Meeting M-091-47-T01 =									14.5		

[1] Completed waste volume is based on the original parent waste package volume.

Attachment 2
21-PFD-003163

TPA Milestone M-091- 47-T02
TRUM/MLLW Waste Validation Data Report

2 pages including cover sheet

TPA Milestone M-091- 47-T02 (280-m³) TRUM/MLLW Waste Validation Data Report

TPA	Shipment Number	Shipment Date to PFNW	Shipped Waste Package IDs (PINs)	Waste Removed From CWC Location	Waste Volume Shipped (m3)	Shipped Waste Package Type	Return Shipment Number	Return Shipment Date (Completion Date)	Waste Volume Completed (m3)[1]	Returned TRUM Waste Packages	Returned TRUM Waste PINs
Extra Volume Carried Forward From Meeting M-091-47-T01 = 14.5											
M-091-47-T02	TC162	5/30/18	ZBB78161.A	CWC-OSAA	43.4	RSW-FRP	TR1807	7/10/18	43.4	9 SWB's	MW18800026 MW18800027 MW18800028 MW18800029 MW18800030 MW18800031 MW18800032 MW18800033 MW18800034
M-091-47-T02	MLLW1806	6/5/18	764DMAF14	CWC-OSAA	38.4	RSW-FRP	CH1807	7/19/2018	35.8	5 Metal Waste Boxes	MW18700057 MW18700058 MW18700064 MW18700055 MW18700065
							CH1807-1	08/01/2018	2.6	1 Metal Waste Box	MW18700061
M-091-47-T02	MLLW1807	6/14/18	752DMA-01	CWC-OSAA	54.4	RSW-FRP	CH1808	8/23/2018	38.5	5 Metal Waste Boxes	MW18700069 MW18700070 MW18700071 MW18700075 MW18700077
							CH1810	9/12/2018	15.9	3 Metal Waste Box	MW18700072 MW18700076 MW18700084
M-091-47-T02	TC167	6/21/18	764PPEF01.A	CWC-OSAA	32.6	RSW-FRP	TR1809	7/17/18	32.6	3 SWB's	MW18800035 MW18800037 MW18800038
M-091-47-T02	TC169	7/17/18	758DMAF04	CWC-OSAA	32.6	RSW-FRP	TR1810	8/28/18	32.6	4 SWBs	MW18800036 MW18800039 MW18800040 MW18800041
M-091-47-T02	TC170	8/30/18	764CTLF01	CWC-OSAA	32.6	RSW-FRP	TR1811	9/20/18	32.6	3 SWBs	MW18800043 MW18800044 MW18800045
M-091-47-T02	TC180	10/11/18	231ZDR-16	CWC-OSAA	32.7	RSW-FRP	TR1812	11/27/18	32.6	4 SWBs	MW18800047 MW18800048 MW18800049 MW18800050
M-091-47-T02	TC182	12/20/18	ZBB7812-1	CWC-RSW	32.70	RSW-FRP	TR1901	1/31/19	32.70	3 SWB's	MW18800056 MW18800057 MW18800058
Total Waste Volume Completed as-of 1/31/2019 =									1,720.2		
Volume (m3) Counted Toward M-091-47A (Completed 09/10/2015) =									280.0		
Volume (m3) Counted Toward M-091-47B (Completed 02/11/2016) =									280.0		
Volume (m3) Counted Toward M-091-47C (Completed 11/03/2016) =									280.0		
Volume (m3) Counted Toward M-091-47D (Completed 08/08/2017) =									280.0		
Volume (m3) Counted Toward M-091-47-T01 (Completed 05/31/2018) =									280.0		
Volume (m3) Counted Toward M-091-47-T02 (Completed 1/31/2019) =									280.0		
Extra Volume Carried Forward After Meeting M-091-47-T02 =									19.4		

[1] Completed waste volume is based on the original parent waste package volume.

Attachment 3
21-PFD-003163

Federal Facility Agreement and Consent Order Change Control Form
M-91-21-03

3 pages including cover sheet

Change Number M-91-21-03	Federal Facility Agreement and Consent Order Change Control Form		Date 10/13/2021
Originator Mark French			Phone 509-373-9863
Class of Change <input type="checkbox"/> I – Signatories <input checked="" type="checkbox"/> II – Executive Managers <input type="checkbox"/> III – Project Managers			
Change Title Establish Next Two Annual Target Dates for Certification of TRUM Waste and Disposal of MLLW in TPA Appendix D			
Description/Justification of Change Tri-Party Agreement (TPA) Target Date M-091-47-T02 requires the U.S. Department of Energy, Richland Operations Office (DOE-RL) to submit to the Washington State Department of Ecology, a TPA change control form (in accordance with the TPA Action Plan Section 12.0) to establish the next two annual target dates for certification of transuranic (TRUM) waste and disposal of mixed low level waste (MLLW) by September 30, 2022. This change control form proposes the next two annual target dates as M-091-47-T03 and M-091-47-T04.			
Impact of Change This change control form establishes the next two annual Target Dates M-091-47-T03 and M-091-47-T04 as required by Target Date M-091-47-T02. There is no impact to Major Milestone M-091-00 with these changes.			
Affected Documents HFFACO (Tri-Party Agreement) Action Plan Appendix D, "Work Schedule Milestones and Target Dates Including Designation of Lead Regulatory Agency."			
Approvals			Page 1 of 2
William F. Hamel	<small>Digitally signed by William F. Hamel Date: 2021.10.20 12:29:08 -07'00'</small>	Approved <input checked="" type="checkbox"/> Disapproved <input type="checkbox"/>	
W.F. Hamel, DOE-RL	Date _____	Approved <input checked="" type="checkbox"/> Disapproved <input type="checkbox"/>	
D.B. Bowen, Ecology	Date _____	Approved <input type="checkbox"/> Disapproved <input type="checkbox"/>	
N/A	Date _____	Approved <input type="checkbox"/> Disapproved <input type="checkbox"/>	
EPA	Date _____	Approved <input type="checkbox"/> Disapproved <input type="checkbox"/>	

Authorized Changes

Modifications to HFFACO Appendix D, "Milestones and Target Dates Including Designation of Lead Regulatory Agency," are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

Number	Milestone	Due Date
<p><u>M-091-47-T03</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Certify or treat 280 cubic meters of TRUM waste and MLLW DOE achieves credit towards this volumetric requirement through some combination of: 1) certification of small or large container TRUM waste or 2) treatment and disposal of MLLW from small or large containers. Certification of TRUM waste and MLLW and/or treatment and disposal of MLLW in excess of the volumetric requirement of previous M-091-47 series target dates can be credited towards future M-091-47 series target dates.</u></p>	<p><u>9/30/2023</u></p>
<p><u>M-091-47-T04</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Certify or treat 280 cubic meters of TRUM waste and MLLW subsequent to completing certification or treatment of the volume required by M-091-47-T03. DOE achieves credit towards this volumetric requirement through some combination of: 1) certification of small or large container TRUM waste or 2) treatment and disposal of MLLW from small or large containers. Certification of TRUM waste and MLLW and/or treatment and disposal of MLLW in excess of the volumetric requirement of previous M-091-47 series target dates can be credited towards future M-091-47 series target dates.</u></p> <p><u>Submit to Ecology a TPA change control form (in accordance with TPA Action Plan Section 12.0) to establish the next two annual target dates for certification of TRUM waste and disposal of MLLW.</u></p>	<p><u>9/30/2024</u></p>