

Hanford Federal Facility Agreement and Consent Order  
(Tri-Party Agreement)

---

**Tentative Agreement**  
**on**  
**Negotiations of Hanford Federal Facility**  
**Agreement and Consent Order Revisions**  
**Pertaining to 100 Area Waste Site**  
**Remediation, 300 Area Surplus Facilities, 200**  
**Area RI/FS, And Canyon Facilities Response**  
**Actions**



Public Comment Period  
December 10, 2012 – January 24, 2013



## Table of Contents

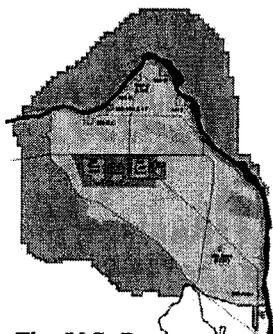
### Fact Sheet

### Agreement in Principle

### Tentative Agreement

### Proposed Change Control Forms

- |            |  |
|------------|--|
| M-15-12-03 | Add six new interim milestones and delete two target dates for River Corridor Decision Documents, and revise interim milestone M-015-00D                           |
| M-16-12-06 | Modifications to Milestones M-016-00A, M-016-55, and M-016-145; and creation of new TPA Milestones   |
| M-85-12-02 | Revise interim milestones in the M-085 series (canyons/associated waste sites and Tier 2 Facilities) to incorporate lessons learned from U Plant                   |
| M-89-12-02 | Extension of 324 Facility Closure due to contaminated soil encountered under B-Cell  |
| M-93-12-02 | Provide a revised schedule for 105-KE and 105-KW Reactor Interim Safe Storage  |
| M-94-12-04 | Delay M-094-00 for the 300 Area due to soil contamination under the 324 Building, and create a new interim milestone for M-094 work exclusive of the 324 building. |



## Proposed Tri-Party Agreement Changes to Prioritize Additional Cleanup Work

The U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (EPA), and Washington State Department of Ecology (Ecology) -- the Tri-Party Agreement (TPA) agencies -- recently completed negotiations and are proposing changes to the TPA. These proposed changes affect several Hanford cleanup projects managed by DOE's Richland Operations Office (RL) and prioritize an expanding scope of cleanup work. The agencies want your input on these proposed TPA changes before they are finalized.

U.S. Department of Energy • Washington State Department of Ecology • U.S. Environmental Protection Agency

### Background

The Hanford Site is located in southeastern Washington along the Columbia River. This 586-square-mile former plutonium production complex is currently engaged in the world's largest environmental cleanup project overseen by DOE.

The *Hanford Federal Facility Agreement and Consent Order* (also known as the Tri-Party Agreement or TPA), a legal agreement between DOE, EPA, and Ecology, identifies cleanup actions and schedules, called milestones. Changes can be made to the TPA with the approval of the three agencies, and the agreement outlines the process for changing, removing, or adding milestones.

The TPA agencies recently completed negotiations on several Hanford Site cleanup projects managed by DOE-RL. The agencies signed a tentative agreement proposing TPA changes that:

1. Revise the schedule for completion of 100 Area decision documents to complete additional groundwater monitoring in the 100-B/C Area.
2. Recognize more time is needed to address numerous additional waste sites and more extensive contamination discovered on Hanford's River Corridor.
3. Recognize the current schedule for completing "hot cell" remediation at the 324 Building will impact the demolition work in the 300 Area due to the discovery of highly radioactive contamination below the building.
4. Extend the schedule for completion of 100 K East Reactor interim safe storage (ISS) to do additional characterization work and incorporate additional soil-sampling data into the selection of a cleanup approach. It also enables the K East and K West reactors to be placed into ISS simultaneously, an approach that may provide a more efficient use of resources.
5. Delay the completion of Central Plateau canyon area decision documents and cleanup actions to incorporate lessons learned from the U-Plant Canyon disposition that will be used to validate approaches and set realistic schedules.

**Why should you care about these proposed changes to the TPA?**



The Tri-Party agencies propose to delay some Hanford cleanup due to the discovery of additional contamination along the river and to revise the decision document schedule for work being done along the river and in the center of the site.

### Why Now?

Progress continues to be made cleaning up the 220-square-mile River Corridor including treating groundwater across the site to protect the Columbia River and cleaning out and demolishing the Plutonium Finishing Plant -- Hanford's highest risk nuclear facility. Even though cleanup is progressing, new challenges have come about including the discovery of large, deep chromium waste sites in the 100-B/C and 100-D Areas in the River Corridor and much higher radioactivity than anticipated below the 324 Building, which necessitate schedule changes for Hanford cleanup work.



### Public Comment Period

The Tri-Party Agencies want your feedback on the proposed Tri-Party Agreement changes. The public comment period will run from **December 10, 2012 through January 24, 2013.**



## What changes are being proposed?

The draft TPA change packages propose to:

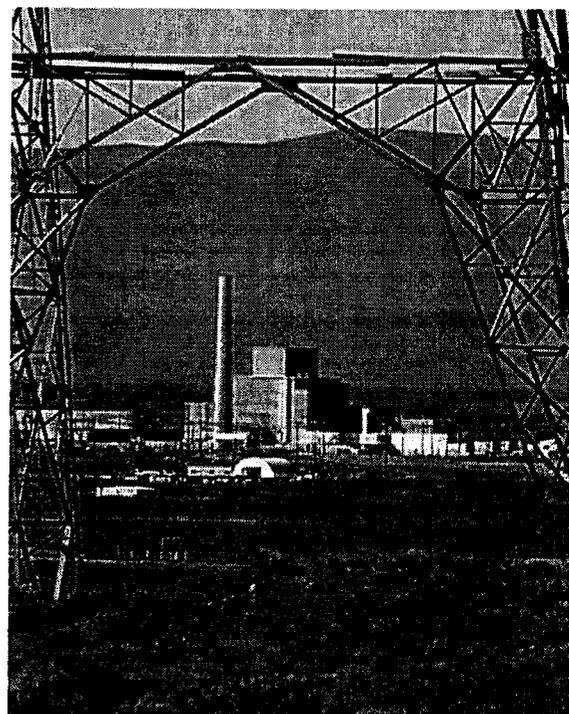
1. Add six new interim milestones and delete two target milestone dates for the River Corridor decision documents. (M-15-12-03)
2. Extend the completion date for three existing milestones and establish nine new interim milestones to remediate contamination that is more extensive than originally expected and address 154 newly discovered waste sites at Hanford's reactor areas (the 100 Area). (M-16-12-06)
3. Extend the closure date for the 324 Building B-Cell due to the discovery of contaminated soil underneath the structure. Also, this change will result in extending the date for completing demolition of all 300 Area surplus facilities. (M-89-12-02 and M-94-12-04)
4. Provide a revised schedule for placing the K East and K West reactors into Interim Safe Storage (ISS), also called "cocooning," (M-93-12-02)
5. Revise interim milestones for the disposition of the canyon facilities on the Central Plateau and their associated waste sites and facilities to incorporate lessons learned from the demolition work at U Plant Canyon. (M-85-12-02)

In addition, the agencies have agreed to pull forward the investigation of deep vadose zone contamination in the Central Plateau, due to the potential threat to groundwater.

The following provides a more detailed discussion of each draft change package:

### *River Corridor*

1. **River Corridor Decision Documents.** The TPA agencies are proposing to add six new interim milestones and delete two target dates for River Corridor Decision documents, and revise interim milestones regarding documents for the 100 and 300 Areas at the Hanford Site.  
  
The TPA agencies believe that two years of additional groundwater monitoring data would be beneficial at Hanford's B/C Area. It would enable the agencies to evaluate the impact of recent work removing sources of hexavalent chromium before a remedy is proposed.
2. **Extending the completion date of three existing milestones and establish nine new interim milestones for Hanford's reactor area (100 Area) remediation.** The TPA agencies propose to extend the completion date of three existing milestones where contamination was more extensive than expected and to establish nine new interim milestones to address remediation of 100 Area waste sites, including 154 newly discovered



*The K Reactor Area near Hanford's northwest border.*

waste sites. The original milestone date was to complete all interim cleanup actions by December 31, 2012; the agencies propose to extend it to March 31, 2017 for completion of final actions.

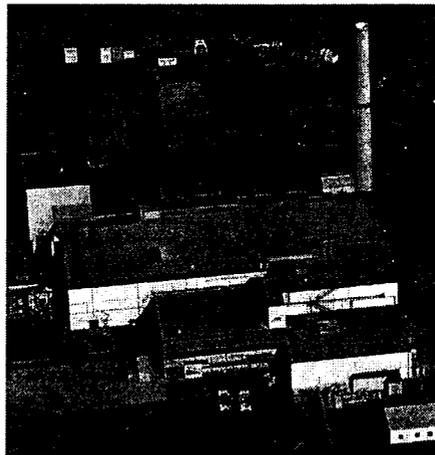
3. **Extension of 324 Facility Closure due to contaminated soil encountered under B-Cell.** The existing milestone requires closure of non-permitted, mixed-waste units in the 324 Building Radiochemical Engineering Complex B-Cell and D-Cell, the high-level vault, and the low-level vault by September 30, 2012. The TPA agencies recognize additional time will be required to complete this milestone.

While preparing the 324 Building for demolition, a breach was identified in the stainless steel liner on the floor of the research room known as B-Cell. Subsequent characterization of the soil beneath the facility confirmed that contamination had leaked into the soil through the breached liner and concrete floor during prior facility operations. This

contamination is at very high radiation levels and requires extensive preparations and operations by a specialized contractor. The highly contaminated soil below B-Cell will require re-evaluation of planned demolition and closure activities at the 324 Building.

This proposed change creates an interim milestone for submitting a closure plan to include the 324 Building Radiochemical Engineering Cells, high- and low-level vaults and associated area into the Hanford Facility Dangerous Waste Permit by June 30, 2016. A second proposed change is to extend the completion date of 300 Area surplus demolition activities from September 30, 2015 to September 30, 2018.

4. **Provide a revised schedule for placing the K East and K West Reactors into Interim Safe Storage (ISS), a process also referred to as "cocooning."** Existing interim milestones require completion of ISS of the K East Reactor by July 31, 2014 and K West Reactor by December 31, 2019, respectively. The TPA agencies agree that additional soil characterization in support of the 100 K Area integrated source and groundwater operable units remedial investigation/feasibility study is necessary prior to initiating the K East Reactor interim safe storage work. Therefore, the scope of the existing K East Reactor milestone is being combined with the K West Reactor



The 324 Building at Hanford's 300 Area.

milestone, requiring that ISS of both reactors be complete by December 31, 2019. The agencies agree that additional interim milestones are necessary to support the combined scope. A new milestone has been added to provide a change package that proposes a revised schedule with interim milestones to be established by December 31, 2015.

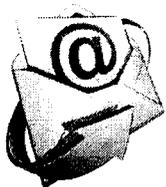
#### *Central Plateau*

5. **Revise interim milestones for the canyon facilities on the Central Plateau to incorporate lessons learned from the demolition work at the U Plant Canyon.** The existing milestone requires DOE-RL to submit a change package to establish a date for completing cleanup of canyon facilities by March 31, 2013.

The agencies propose to extend this milestone by 10 years to allow the response actions for the canyons and associated waste sites to achieve the full benefit of the lessons learned from the remediation of the U Plant Canyon, the first of the five canyon facilities on the Central Plateau to be remediated. Remediation of the U Plant Canyon, including barrier placement, is scheduled to be completed in 2021.

## How You Can Become Involved

A 45-day public comment period on *proposed changes to prioritize additional cleanup work* will run from **December 10, 2012 through January 24, 2013**. At this time, no public meeting is scheduled. To request a public meeting, please contact Tiffany Nguyen by **December 27, 2012**. The TPA agencies would like your feedback on these draft change packages and will consider all comments before finalizing them. For more information please contact: Tiffany Nguyen, DOE-RL, 509-376-3361.



#### **Please submit comments by January 24, 2013 to:**

Tiffany Nguyen  
U.S. Department of Energy  
Richland Operations Office  
P.O. Box 550, A7-75  
Richland, WA 99352  
Email: [TPACH@rl.gov](mailto:TPACH@rl.gov)

The Draft Change Packages can be viewed at [www.hanford.gov/?page=86](http://www.hanford.gov/?page=86)  
The documents are also available for review at the Public Information Repositories listed below.

**HANFORD PUBLIC INFORMATION REPOSITORY LOCATIONS**

**Portland**

Portland State University  
Government Information  
Branford Price Millar Library  
1875 SW Park Avenue  
Portland, OR 97207-1151  
Attn: Claudia Weston (503) 725-4542  
Map: <http://www.pdx.edu/map.html>

**Seattle**

University of Washington  
Suzzallo Library  
Government Publications Department  
Box 352900  
Seattle, WA 98195  
Attn: Hilary Reinert (206) 543-5597  
Map: <http://tinyurl.com/m8ebj>

**Richland**

U.S. Department of Energy Public Reading Room  
Washington State University, Tri-Cities  
Consolidated Information Center, Room 101-L  
2770 University Drive  
Richland, WA 99352  
Attn: Janice Parthree (509) 372-7443  
Map: <http://www.tricity.wsu.edu/admission/contact/campusmap.html>

**Spokane**

Gonzaga University  
Foley Center Library  
East 502 Boone Avenue  
Spokane, WA 99258  
Attn: John Spencer (509) 313-6110  
Map: <http://tinyurl.com/2c6bpm>

Administrative Record and Public Information Repository:  
**Address:** 2440 Stevens Center Place, Room 1101, Richland, WA.  
**Phone:** 509-376-2530  
**Web site address:** <http://www5.hanford.gov/arpir/>

**TPA Change Package Fact Sheet**

U.S. Department of Energy  
Richland Operations Office  
P.O. Box 550, A7-75  
Richland, WA 99352



**AGREEMENT IN PRINCIPLE  
NEGOTIATION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT  
ORDER REVISIONS PERTAINING TO 100 AREA WASTE SITE REMEDIATION, 300 AREA  
SURPLUS FACILITIES, 200 AREA RI/FS, AND CANYON FACILITIES RESPONSE ACTIONS**

The U.S. Department of Energy (DOE), the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology) (or Parties) agree to discuss and negotiate revisions of the Hanford Federal Facility Agreement and Consent Order (HFFACO) Action Plan Appendices C and D that may be appropriate to address:

- 1) River Corridor waste site remediation scope not already covered in the HFFACO Action Plan Appendices C and D, resulting from discovery of new sites or discovery of more extensive contamination than previously anticipated (Milestone M-16-00A).
- 2) Completion/execution dates for the 324 Area facility demolition (M-89-00) and 300 Area Surplus Facilities (M-94-00).
- 3) Completion/execution dates for Central Plateau decision documents (M-15-00) and canyon area remediation (M-085-00).
- 4) Characterization associated with or in the vicinity of the KE reactor area and completion/execution dates for the reactor interim safe storage (M-93-22).

The Parties agree to the following:

- A. To enter into such discussions by August 2, 2012.
- B. To conclude such discussions by September 25, 2012.
- C. To offer consultation with the affected Indian Nations, and to provide briefings to the State of Oregon, the Hanford Advisory Board, and other stakeholders, as appropriate.
- D. To revise the relevant sections of the HFFACO Action Plan appendices to reflect the path forward as negotiated and agreed to after consideration of tribal and public comment, as appropriate.

08/16/2012

This Agreement in Principle is to take effect upon the signature of the Parties. Any Party may withdraw from the Agreement in Principle upon written notice to the other Parties. This Agreement in Principle does not create any right or benefit, substantive or procedural, enforceable by law or equity by any person, including the Parties to this Agreement.

08/16/2012

**AGREEMENT IN PRINCIPLE  
NEGOTIATION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT  
ORDER REVISIONS PERTAINING TO 100 AREA WASTE SITE REMEDIATION, 300 AREA  
SURPLUS FACILITIES, 200 AREA RI/FS, AND CANYON FACILITIES RESPONSE ACTIONS**

|  |  |
|--|--|
| <p>Jane A. Hedges<br/>by <u>John B. Pri</u> Date <u>Aug 17, 2012</u><br/>Jane A. Hedges, Program Manager<br/>Nuclear Waste Program<br/>Department of Ecology<br/>State of Washington</p> | <p><u>[Signature]</u> Date <u>8/17/12</u><br/>Matt McCormick, Manager<br/>U.S. Department of Energy<br/>Richland Operations Office</p> |
| <p><u>[Signature]</u> Date <u>8/17/12</u><br/>Dennis A. Faulk, Program Manager<br/>Hanford Project Office<br/>U.S. Environmental Protection Agency</p>                                   |  |



**TENTATIVE AGREEMENT  
ON  
NEGOTIATIONS OF HANFORD FEDERAL FACILITY AGREEMENT AND  
CONSENT ORDER REVISIONS PERTAINING TO 100 AREA WASTE SITE  
REMEDICATION, 300 AREA SURPLUS FACILITIES, 200 AREA RI/FS, AND  
CANYON FACILITIES RESPONSE ACTIONS**

**November 2012**

## CONTENTS

### **Tentative Agreement**

|           |                     |  |
|-----------|---------------------|--|
| <b>1.</b> | Tentative Agreement | Negotiation of Hanford Federal Facility Agreement and Consent Order Revisions Pertaining to 100 Area Waste Site Remediation, 300 Area Surplus Facilities, 200 Area RI/FS, and Canyon Facilities Response Actions |
|-----------|---------------------|--|

### **Tri-Party Agreement Change Control Forms for Public Comment**

|           |            |  |
|-----------|------------|--|
| <b>2.</b> | M-15-12-03 | Add six new interim milestones and delete two target dates for River Corridor Decision Documents, and revise interim milestone M-015-00D                           |
| <b>3.</b> | M-16-12-06 | Modifications to Milestones M-016-00A, M-016-55, and M-016-145; and creation of new TPA Milestones   |
| <b>4.</b> | M-85-12-02 | Revise interim milestones in the M-085 series (canyons/associated waste sites and Tier 2 Facilities) to incorporate lessons learned from U Plant                   |
| <b>5.</b> | M-89-12-02 | Extension of 324 Facility Closure due to contaminated soil encountered under B-Cell  |
| <b>6.</b> | M-93-12-02 | Provide a revised schedule for 105-KE and 105-KW Reactor Interim Safe Storage  |
| <b>7.</b> | M-94-12-04 | Delay M-094-00 for the 300 Area due to soil contamination under the 324 Building, and create a new interim milestone for M-094 work exclusive of the 324 building. |



## **Tentative Agreement**

**on**

### **Negotiation of Hanford Federal Facility Agreement and Consent Order Revisions Pertaining to 100 Area Waste Site Remediation, 300 Area Surplus Facilities, 200 Area RI/FS, and Canyon Facilities Response Actions**

The U. S. Department of Energy Richland Operations Office (DOE), the State of Washington Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA), hereinafter referred to as the Parties, signed *Agreement in Principle, Negotiation of Hanford Federal Facility Agreement and Consent Order Revisions Pertaining to 100 Area Waste Site Remediation, 300 Area Surplus Facilities, 200 Area RI/FS, and Canyon Facilities Response Actions* on August 17, 2012. In the Agreement in Principle (AIP), the Parties agreed to discuss and negotiate revisions of the Hanford Federal Facility Agreement and Consent Order (HFFACO) Action Plan Appendices C (Listing of Operable Units) and D (Work Schedule Milestones and Target Dates Including Designation of Lead Regulatory Agency) to address:

- 1) River Corridor waste site remediation scope not already covered in the HFFACO Action Plan Appendices C and D, resulting from discovery of new sites or discovery of more extensive contamination than previously anticipated (Milestone M-016-00A).
- 2) Completion/execution dates for the 324 Area facility demolition (M-089-00) and 300 Area Surplus Facilities (M-094-00).
- 3) Completion/execution dates for Central Plateau decision documents (M-015-00) and canyon area remediation (M-085-00).
- 4) Characterization associated with or in the vicinity of the KE reactor area and completion/execution dates for the reactor interim safe storage (M-093-22).

During the ensuing weeks, in accordance with the AIP, the Parties conducted discussions and negotiations for potential modifications to certain milestones and target dates in Appendix D of the Action Plan and agreed that good cause exists for the changes. Tentative agreement has been reached and proposed change control forms have been developed by the Parties. The Parties have tentatively agreed to the proposed HFFACO Change Control Forms. Final agreement is subject to consideration of public comments. A Change Control Form for modification of

Appendix C (listing 154 additional wastes sites) will be prepared after consideration of public comments and approval of the Change Control Forms below.

The proposed HFFACO Change Control Forms implementing the tentative agreements are attached and listed below.

| <b>Change Control Form</b> | <b>Title</b>   |
|----------------------------|--|
| M-15-12-03                 | Add six new interim milestones and delete two target dates for River Corridor Decision Documents, and revise interim milestone M-015-00D                           |
| M-16-12-06                 | Modifications to Milestones M-016-00A, M-016-55, and M-016-145; and creation of new TPA Milestones   |
| M-85-12-02                 | Revise interim milestones in the M-085 series (canyons/associated waste sites and Tier 2 Facilities) to incorporate lessons learned from U Plant                   |
| M-89-12-02                 | Extension of 324 Facility Closure due to contaminated soil encountered under B-Cell  |
| M-93-12-02                 | Provide a revised schedule for 105-KE and 105-KW Reactor Interim Safe Storage  |
| M-94-12-04                 | Delay M-094-00 for the 300 Area due to soil contamination under the 324 Building, and create a new interim milestone for M-094 work exclusive of the 324 building. |

Final approval of the change control forms by the Parties is subject to public comment and revision, as required. A notice of the upcoming public comment period for the HFFACO Change Control Forms was published on the DOE Hanford Tri-Party Agreement web page and distributed to regional stakeholders on September 12, 2012. The Parties expect to submit the proposed HFFACO Change Control Forms for a 45-day public comment period beginning on or about December 10, 2012. Following conclusion of the public comment period, the Parties will consider the comments and the HFFACO Change Control Forms will be revised, as appropriate. When agreed upon, the HFFACO Change Control Forms will be approved by the Parties and incorporated into the Tri-Party Agreement.

Unresolved revisions resulting from public comments will be subject to Tri-Party Agreement dispute resolution beginning at the Interagency Management Integration Team level as provided for in Article VIII and/or XVI of the Tri-Party Agreement.

This Tentative Agreement is to take effect upon the signature of the Parties.



**Tentative Agreement**  
**on**  
**Negotiation of Hanford Federal Facility Agreement and Consent Order Revisions**  
**Pertaining to 100 Area Waste Site Remediation, 300 Area Surplus Facilities, 200 Area**  
**RI/FS, and Canyon Facilities Response Actions**

A handwritten signature in black ink, appearing to read "Matt McCormick".

Matt McCormick, Manager  
U.S. Department of Energy  
Richland Operations Office

11/26/12  
Date

A handwritten signature in black ink, appearing to read "Jane A. Hedges".

Jane A. Hedges, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology

11/26/12  
Date

A handwritten signature in black ink, appearing to read "Dennis A. Faulk".

Dennis A. Faulk, Program Manager  
Office of Environmental Cleanup  
Hanford Project Office  
U.S. Environmental Protection Agency

11/26/12  
Date

|  |   |                                  |
|--|---|----------------------------------|
| <b>Change Number</b><br>M-15-12-03   | <b>Federal Facility Agreement and Consent Order<br/> Change Control Form</b><br>Do not use blue ink. Type or print using black ink. | <b>Date</b><br>November 26, 2012 |
| <b>Originator</b><br>J. A. Dowell  |   | <b>Phone</b><br>(509) 373-9971   |
| <b>Class of Change</b><br><input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager   |   |                                  |
| <b>Change Title</b><br>Add six new interim milestones and delete two target dates for River Corridor Decision Documents, and revise interim milestone M-015-00D  |   |                                  |
| <b>Description/Justification of Change</b><br>Milestone M-015-00D requires completion of the Remedial Investigation (RI) and Feasibility Study (FS) process through the submittal of a Proposed Plan (PP) for all 100 and 300 Area operable units (OUs) by December 31, 2012.<br>Based on analysis of RI data, the U. S. Department of Energy, Richland Operations Office (RL) and the U.S. Environmental Protection Agency (EPA) have agreed that 2 years of additional groundwater monitoring data is necessary in the 100-BC operable units to evaluate the impact of recent interim remedial actions for source removal before a groundwater remedy can be proposed. As a result, a new milestone for submittal of the 100-BC RI/FS and PP is being established.<br><i>Description/Justification of Change continued on next page.</i> |   |                                  |
| <b>Impact of Change</b><br>This change revises the scope of the current M-015-00D milestone to exclude the 100-NR and 100-BC documents. This change also inserts new interim milestones for the RI/FS reports and PPs for both the 100-BC and 100-NR integrated source and groundwater OUs.  |   |                                  |
| <b>Affected Documents</b><br>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended, and Hanford Site internal planning management, and budget documents.   |   |                                  |
| <b>Approvals</b><br>J. A. Dowell _____ Date _____ Approved _____ Disapproved<br>DOE<br>D. A. Faulk _____ Date _____ Approved _____ Disapproved<br>EPA<br>J. A. Hedges _____ Date _____ Approved _____ Disapproved<br>Ecology   |   |                                  |

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

The 100-NR RI/FS and PP are being delayed several months to enable the Tri-Party agencies to focus on finalizing the 300 Area CERCLA decisions as well as limiting the number of RI/FS Proposed Plans out for public review at one time.

With the addition of these interim milestones and the revision of M-015-00D, the TPA Target dates for submitting the RI/FS and PP documents for 100-BC and 100-N are deleted.

Modifications are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

| Number   | Milestone  | Due Date          |
|--|--|-------------------|
| <del>M-015-68-T01</del>                                  | <del>Submit CERCLA RI/FS Report &amp; Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.</del>   | 11/30/2011        |
| <del>M-015-62-T01</del>                                  | <del>Submit a Feasibility Study Report and Proposed Plan for the 100-NR-1 and 100-NR-2 Operable Units including groundwater and soil. The FS report and Proposed Plan will evaluate the permeable reactive barrier technology and other alternatives and will identify a preferred alternative in accordance with CERCLA requirements.</del> | 09/17/2012        |
| M-015-00D<br><u>Lead Agency:</u><br><u>Dual</u>          | DOE shall complete the RI/FS process through the submittal of a <u>RI/FS Report and Proposed Plan for all 100 and 300 Area operable units except 100-BC-1, 100-BC-2, and 100-BC-5; and 100-NR-1 and 100-NR-2.</u>  | 12/31/2012        |
| <u>M-015-74</u><br><u>Lead Agency:</u><br><u>EPA</u>     | <u>Revise and submit the 100-BC-1, 100-BC-2, and 100-BC-5 RI/FS Work Plan, including the SAP, to include additional groundwater well installation and associated monitoring.</u>   | <u>01/31/2013</u> |
| <u>M-015-75</u><br><u>Lead Agency:</u><br><u>Ecology</u> | <u>Submit Remedial Investigation/Feasibility Study Report and Proposed Plan for the 100-NR-1 source operable unit and the 100-NR-2 groundwater operable unit.</u>  | <u>06/30/2013</u> |
| <u>M-015-76</u><br><u>Lead Agency:</u><br><u>EPA</u>     | <u>Install additional well monitoring network as specified in revised 100-BC-1, 100-BC-2, and 100-BC-5 RI/FS Work Plan/SAP.</u>  | <u>09/30/2013</u> |
| <u>M-015-77</u><br><u>Lead Agency:</u><br><u>EPA</u>     | <u>Install additional aquifer tubes as specified in revised 100-BC-1, 100-BC-2, and 100-BC-5 RI/FS Work Plan/SAP.</u>  | <u>11/30/2013</u> |
| <u>M-015-78</u><br><u>Lead Agency:</u><br><u>EPA</u>     | <u>Complete two years of groundwater and aquifer tube sampling at the 100-BC expanded monitoring network in accordance with the revised 100-BC-1, 100-BC-2, and 100-BC-5 RI/FS Work Plan.</u>  | <u>11/30/2015</u> |
| <u>M-015-79</u><br><u>Lead Agency:</u><br><u>EPA</u>     | <u>Submit CERCLA Remedial Investigation/Feasibility Study Report and Proposed Plan for the 100-BC-1 and 100-BC-2 source operable units and the 100-BC-5 groundwater operable unit.</u>   | <u>12/15/2016</u> |

|                                    |  |                                  |
|------------------------------------|--|----------------------------------|
| <b>Change Number</b><br>M-16-12-06 | <b>Federal Facility Agreement and Consent Order<br/>Change Control Form</b><br>Do not use blue ink. Type or print using black ink. | <b>Date</b><br>November 26, 2012 |
|------------------------------------|--|----------------------------------|

|                                   |                                |
|-----------------------------------|--------------------------------|
| <b>Originator</b><br>J. A. Dowell | <b>Phone</b><br>(509) 373-9971 |
|-----------------------------------|--------------------------------|

|  |
|--|
| <b>Class of Change</b><br><input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager |
|--|

|   |
|---|
| <b>Change Title</b><br>Modifications to Milestones M-016-00A, M-016-55, and M-016-145; and creation of new TPA Milestones |
|---|

|  |
|--|
| <p><b>Description/Justification of Change</b></p> <p>The following Tri-Party Agreement milestones require interim response actions for waste sites to be completed by December 31, 2012:</p> <ul style="list-style-type: none"> <li>• M-016-00A (100 Area, excluding groundwater actions covered under Milestone M-016-00 and 100 K Area response actions addressed in M-016-00C);</li> <li>• M-016-55 (100-N Area); and</li> <li>• M-016-145 (100-K Area sites located outside of the 100 K perimeter boundary).</li> </ul> <p>The U.S. Department of Energy, Richland Operations Office, the U.S. Environmental Protection Agency, and the Washington State Department of Ecology agree to: extend the completion date of these three existing milestones; revise M-016-00A to apply to final response actions, not just interim response actions; revise M-016-55 and M-016-145 to provide additional time for waste site cleanup; and to establish nine new interim milestones. This change request provides additional time for performing interim response actions at sites where contamination was more extensive than expected. Additionally, this change control form addresses 154 waste sites that have been added to the list of waste sites included in the 100 Area Records of Decision.</p> <p><i>Description/Justification of Change continued on next page.</i></p> |
|--|

|  |
|--|
| <p><b>Impact of Change</b></p> <p>This change results in modifications to the scope and completion dates for M-016-00A, M-016-55, and M-016-145. The change also establishes nine new interim milestones for continued waste site response in the 100 Areas.</p> |
|--|

|  |
|--|
| <p><b>Affected Documents</b></p> <p>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended, and Hanford Site internal planning, management, and budget documents.</p> |
|--|

|                         |  |
|-------------------------|--|
| <b>Approvals</b>        |  |
| J. A. Dowell<br>DOE     | _____ Approved _____ Disapproved<br>Date |
| D. A. Faulk<br>EPA      | _____ Approved _____ Disapproved<br>Date |
| J. A. Hedges<br>Ecology | _____ Approved _____ Disapproved<br>Date |

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

Modifications are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions:

| Number  | Milestone  | Due Date  |
|---|--|---|
| <u>M-016-00A</u><br><u>Lead</u><br><u>Agency:</u><br><u>Dual</u>    | Complete all <del>interim</del> response actions for the 100 Area units (except groundwater actions which are covered under Major Milestone M-016-00 <del>and 100 K Area response actions addressed in M-016-00C</del> ), with the <del>exception of 100-K Area</del> , by the specified due date as approved in a Remedial Design/Remedial Action Work Plan.<br><br>Completion of <del>interim</del> response actions is defined as the completion of the <del>interim</del> ROD or action memorandum requirements in accordance with an approved RD/RA work plan or removal action work plan and <del>obtain</del> EPA and/or Ecology approval of <u>waste site reclassification forms</u> <del>the appropriate project closeout documents</del> . | <del>December 31, 2012</del><br><u>03/31/2017</u> |
| <u>M-016-145</u><br><u>Lead</u><br><u>Agency:</u><br><u>EPA</u>     | <del>Complete the interim response actions for 100-K Area facilities and waste sites not included as Phase 1, Phase 2, or Phase 3 work.</del><br><br><u>Complete 100-K Area interim response actions for the following sites: 128-K-2; 100-K-78; 600-29; 100-K-84; 100-K-86, 100-K-89; 100-K-92; 100-K-87; 100-K-91; 100-K-93; 100-K-95, 100-K-111 and 118-K-1.</u><br><br>These are the facilities and waste sites which are outside the 100-K perimeter boundary. Phase 1, Phase 2, and Phase 3 facilities and waste sites are defined in the 100-K Area RD/RA Work Plans.   | <del>December 31, 2012</del><br><u>03/31/2014</u> |
| <u>M-016-146</u><br><u>Lead</u><br><u>Agency:</u><br><u>EPA</u>     | <u>Complete 100-B/C Area interim response actions at the 100-C-7 and 100-C-7.1 waste sites</u>   | <u>03/31/2014</u>                                 |
| <u>M-016-148</u><br><u>Lead</u><br><u>Agency:</u><br><u>EPA</u>     | <u>Complete interim response actions for the following 100-IU-2/6 waste sites: 600-306, 600-307, 600-308, 600-311, 600-312, 600-314, 600-324, 600-325.</u>   | <u>03/31/2013</u>                                 |
| <u>M-016-149</u><br><u>Lead</u><br><u>Agency:</u><br><u>EPA</u>     | <u>Complete 100-IU-2/6 interim response actions for the following waste sites:</u><br><u>600-293, 600-294, 600-298, 600-299, 600-300, 600-301, 600-303, 600-305, 600-309, 600-310, 600-313, 600-316, 600-318, 600-319, 600-320, 600-321, 600-328, 600-329, 600-331, 600-332, 600-334, 600-326, 600-349, 600-358, 600-368, 600-369, 600-370, 600-371, 600-372, 600-373, 600-374, 600-375, 600-376, 600-377, 600-378, 600-379.</u>   | <u>03/31/2015</u>                                 |
| <u>M-016-158</u><br><u>Lead</u><br><u>Agency:</u><br><u>Ecology</u> | <u>Complete interim response actions for the following 100-D and 100-H Area waste sites: 100-D-8, 118-D-2, 118-D-3, 116-H-5, 126-H-2, 128-H-1, 132-H-3 (Revegetation of 118-D-2, 118-D-3, and 132-H-3 will be deferred to M-16-161 to support the remaining waste site remediation activities).</u>  | <u>03/31/2013</u>                                 |
| <u>M-016-159</u><br><u>Lead</u>                                     | <u>Complete interim response actions for the following 100-D and 100-H Area waste sites: 100-D-14, 100-D-56, 100-D-62, 100-D-63, 100-D-</u>  | <u>03/31/2015</u>                                 |

|   |  |   |
|---|--|---|
| <u>Agency:</u><br><u>Ecology</u>                                    | <u>65, 100-D-66, 100-D-71, 100-D-73, 100-D-75:2, 100-D-76, 100-D-78, 100-D-80, 100-D-81, 100-D-96, 100-D-101, 100-D-102, 116-DR-3, 118-D6:4, 1607-D1, 1607-D2, 100-H-37, 100-H-43, 100-H-48, 100-H-52, 100-H-57.</u>   |   |
| <u>M-016-161</u><br><u>Lead</u><br><u>Agency:</u><br><u>Ecology</u> | <u>Complete 100-D and 100-H Area interim response actions for the following waste sites: 100-D-30, 100-D-31, 100-D-50 (except 100-D-50:2), 100-D-69, 100-D-72, 100-D-77, 100-D-83, 100-D-84, 100-D-85, 100-D-86, 100-D-97, 100-D-98:2, 100-D-99, 100-D-100, 100-D-103, 100-D-104, 100-D-105, 100-D-106, 100-H-28, 100-H-38, 100-H-42, 100-H-44, 100-H-46, 100-H-49, 100-H-51, 100-H-53, 100-H-56, 100-H-59, and 600-385, including revegetation of 118-D-2, 118-D-3, and 132-H-3.</u><br><br><u>Complete the decommissioning of the in-situ redox manipulation pond (147-D), a surface impoundment constructed as part of the 100-HR-3 Operable Unit interim remedial action.</u>  | <u>03/31/2016</u>                             |
| <u>M-016-55</u><br><u>Lead</u><br><u>Agency:</u><br><u>Ecology</u>  | <u>Complete the interim response actions for the 100 N Area. Complete interim response actions of the following 30 waste sites: 100-N-1, 100-N-3, 100-N-4, 100-N-5, 100-N-13, 100-N-14, 100-N-17, 100-N-18, 100-N-33, 100-N-34, 100-N-45, 100-N-46, 100-N-47, 100-N-50, 100-N-51A, 100-N-51B, 116-N-1, 116-N-3, 120-N-1, 120-N-2, 124-N-4, 600-35, UPR-100-N-11, UPR-100-N-37.</u><br><br><u>Complete 100-N Area Ancillary Facility removal actions for the following facilities: 13-N, 105-NA, 116-N, 117-N, 117-NVH, 119-N, 119-NA, 163-N, 181-N, 181-NA, 181-NB, 181-NE, 184-N, 184-NA, 184-NB, 184-NE, 185-N, 1300-N, 1304-N, 1310-N, 1312-N, 1313-N, 1314-N, 1315-N, 1316-N, 1316-NA, 1316-NB, 1316-NC, 1322-N, 1322-NA, 1322-NB, 1322-NC, 1327-N, 1605-NE, 1701-NE, 1703-N, 1712-N, 1714-NB, 1716-NE, 1722-N, 1802-N, 105-N &amp; 107-N Pipe Trench 105-NE, 107-N, 108-N, 166-N, 182-N, 1303-N, 1715-N, 1900-N, 1908-N, and 1908-NE.</u>               | <u>December 31, 2012</u><br><u>03/31/2013</u> |
| <u>M-016-162</u><br><u>Lead</u><br><u>Agency:</u><br><u>Ecology</u> | <u>Initiate operations of in-situ bioremediation systems for UPR-100-N-17 in accordance with 100-N Area Remedial Design Report/Remedial Action Work Plan.</u>  | <u>12/31/2012</u>                             |
| <u>M-016-163</u><br><u>Lead</u><br><u>Agency:</u><br><u>Ecology</u> | <u>Complete interim response actions (excluding backfill and revegetation) for the following 58 100-N Area waste sites: 100-N-6, 100-N-16, 100-N-22, 100-N-23, 100-N-24, 100-N-25, 100-N-26, 100-N-29, 100-N-30, 100-N-31, 100-N-32, 100-N-36, 100-N-37, 100-N-38, 100-N-57, 100-N-59, 100-N-60, 100-N-61, 100-N-63, 100-N-64, 116-N-2, 116-N-4, 118-N-1, 120-N-3, 120-N-7, 124-N-1, 124-N-2, 124-N-3, 124-N-9, 128-N-1, 1908-N, 1908-NE, UPR-100-N-1, UPR-100-N-2, UPR-100-N-3, UPR-100-N-4, UPR-100-N-5, UPR-100-N-6, UPR-100-N-7, UPR-100-N-8, UPR-100-N-9, UPR-100-N-10, UPR-100-N-12, UPR-100-N-13, UPR-100-N-14, UPR-100-N-19, UPR-100-N-21, UPR-100-N-22, UPR-100-N-23, UPR-100-N-25, UPR-100-N-26, UPR-100-N-29, UPR-100-N-30, UPR-100-N-31, UPR-100-N-32, UPR-100-N-36, UPR-100-N-39, UPR-100-N-43.</u><br><br><u>Initiate operations of in-situ bioremediation systems for UPR-100-N-42 in accordance with the approved 100-N Remedial Design.</u> | <u>03/31/2015</u>                             |

|  | <u>Report/Remedial Action Work Plan.</u>  |                          |
|--|---|--------------------------|
| <p><u>M-016-164</u><br/> <u>Lead</u><br/> <u>Agency:</u><br/> <u>Ecology</u></p> | <p><u>Complete 100-N interim response actions by performing remediation of the following waste sites:</u><br/> <u>100-N-28, 100-N-35, 100-N-53, 100-N-54, 100-N-55, 100-N-62, 100-N-68, 100-N-81, 100-N-82, 100-N-83, 100-N-84, 100-N-86, 100-N-87, 100-N-88, 100-N-89, 100-N-90, 100-N-91, 100-N-92, 100-N-93, 100-N-94, 100-N-95, 100-N-96, 100-N-97, 100-N-98, 100-N-99, 100-N-100, 100-N-101, 100-N-102, 100-N-103, 120-N-4, 130-N-1, 600-340, 628-2, UPR-100-N-18, UPR-100-N-20, UPR-100-N-24, including backfill and revegetation of the M-016-163 sites.</u></p> <p><u>Close the 100-N Ancillary Facilities Area of Contamination in accordance with the Removal Action Work Plan for 100-N Area Ancillary Facilities.</u></p> | <p><u>03/31/2017</u></p> |

|   |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
|---|--|----------------------------------|---------------------|----------|-------|-------------|----------|-------|-------------|--------------------|-------|------|-------|----------|-------|-------------|-------------------------|-------|------|-------|----------|-------|-------------|
| <b>Change Number</b><br>M-85-12-02  | <b>Federal Facility Agreement and Consent Order<br/>Change Control Form</b><br>Do not use blue ink. Type or print using black ink. | <b>Date</b><br>November 26, 2012 |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Originator</b><br>J. A. Dowell   |  | <b>Phone</b><br>(509) 373-9971   |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Class of Change</b><br><input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager  |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Change Title</b><br>Revise interim milestones in the M-085 series (canyons/associated waste sites and Tier 2 Facilities) to incorporate lessons learned from U Plant   |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Description/Justification of Change</b><br><p>Milestone M-085-01 requires the U. S. Department of Energy, Richland Operations Office (RL) to submit a change package to establish a date for major milestone M-085-00 (completion of response actions for canyon facilities and Central Plateau Tier 2 Facilities) by March 31, 2013.</p> <p>This milestone is being extended by 10 years so that response actions for the canyons and associated waste sites can fully benefit from the lessons learned from the remediation of the U Plant Canyon, the first of the canyon facilities on the Central Plateau to be remediated. Remediation of the U Plant Canyon, including barrier placement, is scheduled to be completed in 2021.</p> <p>A new milestone is being added to require submittal of a change package to (1) establish a schedule for submittal of the Remedial Investigation/Feasibility Study (RI/FS) Work Plans for the canyons and associated waste site Operable Units (200-CB-1, 200-CP-1, and 200-CR-1) and (2) establish a schedule for submittal of Removal Action Work Plans for 224B and 224T Plutonium Concentration Facilities. The remaining interim milestones in the M-085 series are being deleted. The M-085-60 Milestone is being deleted as the majority of the Tier 2 facilities were included in the Action Memorandum for Decontamination, Deactivation, Decommissioning, and Demolition (D4) Activities for 200 East Tier 2 Buildings/Structures, DOE/RL-2010-102, Revision 0. The remaining Tier 2 facility response actions will be addressed in accordance with TPA Action Plan Appendix J.</p> <p><i>Description/Justification of Change continued on the next page.</i></p> |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Impact of Change</b><br>This change control form extends the Interim Milestone M-085-01 to September 30, 2022, establishes a new Interim Milestone M-085-02 for September 30, 2015, and deletes six interim milestones in the M-085 series. There is no change to the Major Milestone M-085-00.  |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Affected Documents</b><br>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended, and Hanford Site internal planning management, and budget documents.  |  |                                  |                     |          |       |             |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| <b>Approvals</b><br><table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">J. A. Dowell<br/>DOE</td> <td style="width: 10%; text-align: center;">_____</td> <td style="width: 10%; text-align: center;">Date</td> <td style="width: 10%; text-align: center;">_____</td> <td style="width: 10%; text-align: center;">Approved</td> <td style="width: 10%; text-align: center;">_____</td> <td style="width: 10%; text-align: center;">Disapproved</td> </tr> <tr> <td>D. A. Faulk<br/>EPA</td> <td>_____</td> <td style="text-align: center;">Date</td> <td>_____</td> <td style="text-align: center;">Approved</td> <td>_____</td> <td style="text-align: center;">Disapproved</td> </tr> <tr> <td>J. A. Hedges<br/>Ecology</td> <td>_____</td> <td style="text-align: center;">Date</td> <td>_____</td> <td style="text-align: center;">Approved</td> <td>_____</td> <td style="text-align: center;">Disapproved</td> </tr> </table>  |  |                                  | J. A. Dowell<br>DOE | _____    | Date  | _____       | Approved | _____ | Disapproved | D. A. Faulk<br>EPA | _____ | Date | _____ | Approved | _____ | Disapproved | J. A. Hedges<br>Ecology | _____ | Date | _____ | Approved | _____ | Disapproved |
| J. A. Dowell<br>DOE   | _____  | Date                             | _____               | Approved | _____ | Disapproved |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| D. A. Faulk<br>EPA  | _____  | Date                             | _____               | Approved | _____ | Disapproved |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |
| J. A. Hedges<br>Ecology   | _____  | Date                             | _____               | Approved | _____ | Disapproved |          |       |             |                    |       |      |       |          |       |             |                         |       |      |       |          |       |             |

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

Modifications are denoted by using of ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

| Number  | Milestone   | Due Date                               |
|---|---|--|
| M-085-00<br>Lead Agency:<br>Dual                      | Complete Response Actions for canyon facilities/associated past practice Waste Sites, other Tier 1 Central Plateau facilities not covered by existing milestones, and Tier 2 Central Plateau facilities.<br><br>This includes B Plant, PUREX, and REDOX canyons and associated past practice waste sites in 200-CB-1, 200-CP-1 and 200-CR-1 OUs. The milestone does not include U Plant or T Plant canyons. | TBD                                    |
| <u>M-085-01</u><br><u>Lead Agency:</u><br><u>Dual</u> | Submit a change package to establish a date for major milestone M-085-00.   | <u>03/31/2013</u><br><u>09/30/2022</u> |
| <u>M-085-02</u><br><u>Lead Agency:</u><br><u>Dual</u> | <u>Submit a change package to establish a schedule for submittal of the RI/FS Work Plans for the 200-CB-1, 200-CP-1, and 200-CR-1 Operable Units and a schedule for submittal of the Removal Action Work Plans for 224B and 224T Plutonium Concentration Facilities.</u>  | <u>09/30/2015</u>                      |
| M-085-10A   | <del>Submit Remedial Investigation/Feasibility Study Work Plan for the 200-CB-1 OU (B Plant Canyon/associated past practice waste sites) to Ecology.</del>  | 06/30/2014                             |
| M-085-20A   | <del>Submit Remedial Investigation/Feasibility Study Work Plan for the 200-CP-1 OU (PUREX Canyon/associated past practice waste sites) to Ecology.</del>  | 09/30/2015                             |
| M-085-30A   | <del>Submit Remedial Investigation/Feasibility Study Work Plan for the 200-CR-1 OU (REDOX Canyon/associated past practice waste sites) to EPA.</del>  | 12/31/2017                             |
| M-085-50  | <del>Submit revised removal action work plan for the 224B Concentration Facility in accordance with the Action Memorandum for the Non-Time Critical Removal Action for the 224-B Plutonium Concentration Facility (DOE/RL-2004-36). A change package with a completion milestone will accompany the submittal of the work plan.</del>   | 12/31/2015                             |
| M-085-51  | <del>Submit revised removal action work plan for the 224T Transuranic Storage and Assay Facility in accordance with the Action Memorandum for the Non-Time Critical Removal Action for the 224-T Plutonium Concentration Facility (DOE/RL-2004-68). A change package with a completion milestone will accompany the submittal of the work plan.</del>   | 12/31/2025                             |
| M-085-60  | <del>Complete Engineering Evaluation/Cost analysis report(s) for all Tier 2 facilities listed in Appendix J.</del>  | 03/31/2018                             |

|   |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
|---|---|----------------------------------|------------------------|-------|-------------|----------|-------|-------------|-----------------------|------|-------|----------|-------|-------------|--------------------------|------|-------|----------|-------|-------------|
| <b>Change Number</b><br>M-89-12-02  | <b>Federal Facility Agreement and Consent Order<br/>Change Control Form</b><br><small>Do not use blue ink. Type or print using black ink.</small> | <b>Date</b><br>November 26, 2012 |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Originator</b><br>J. A. Dowell   |   | <b>Phone</b><br>(509) 373-9971   |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Class of Change</b><br><input checked="" type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager  |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Change Title</b><br>Extension of 324 Facility Closure due to contaminated soil encountered under B-Cell  |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Description/Justification of Change</b><br><p>The existing M-089-00 requires closure of non-permitted mixed waste units in the 324 Building radiochemical engineering complex (REC) B-cell and D-cell, the high level vault, and the low level vault by September 30, 2012. While preparing the 324 Building for demolition, a breach was identified in the stainless steel liner at the bottom of the B-cell sump. Subsequent characterization of the soil beneath the facility confirmed that contamination had leaked into the soil through the breached liner and concrete floor. The Tri-Parties agree that the soil contamination, designated as the 300-296 waste site, can be removed under the requirements of an approved CERCLA Record of Decision (ROD) in development for the 300 Area. However, the existing 324 Building closure plan will have to be revised given the newly discovered release and the work to be conducted under CERCLA to address the contaminated soil.</p> <p><i>Description/Justification of Change continued on the next page.</i></p>  |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Impact of Change</b><br>This change creates a target date for completing the 30% design for removal of the 324 B-cell and an interim milestone for submitting a permit modification request to incorporate into the Hanford Site Dangerous Waste Permit a revised version of the approved closure plan. A new completion schedule is to be established (TBE) in conjunction with the submission of the permit modification request. The M-094-00 milestone for disposition of 300 Area surplus facilities will require modification. It is likely that the new schedule will also affect the completion schedule of 300 Area waste site remediation.   |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Affected Documents</b><br>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended; Hanford Site internal planning, management, and budget documents; and the "324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73, Revision 3.   |   |                                  |                        |       |             |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| <b>Approvals</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">M. S. McCormick<br/>DOE</td> <td style="width: 10%; border-bottom: 1px solid black;">Date</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">Approved</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">Disapproved</td> </tr> <tr> <td style="border-bottom: 1px solid black;">D. J. McLerran<br/>EPA</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Approved</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Disapproved</td> </tr> <tr> <td style="border-bottom: 1px solid black;">T. Sturdevant<br/>Ecology</td> <td style="border-bottom: 1px solid black;">Date</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Approved</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Disapproved</td> </tr> </table> |   |                                  | M. S. McCormick<br>DOE | Date  | _____       | Approved | _____ | Disapproved | D. J. McLerran<br>EPA | Date | _____ | Approved | _____ | Disapproved | T. Sturdevant<br>Ecology | Date | _____ | Approved | _____ | Disapproved |
| M. S. McCormick<br>DOE  | Date  | _____                            | Approved               | _____ | Disapproved |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| D. J. McLerran<br>EPA   | Date  | _____                            | Approved               | _____ | Disapproved |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |
| T. Sturdevant<br>Ecology  | Date  | _____                            | Approved               | _____ | Disapproved |          |       |             |                       |      |       |          |       |             |                          |      |       |          |       |             |

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

Modifications are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

| Number  | Milestone   | Due Date   |
|---|---|--|
| M-089-00<br><u>Lead Agency:</u><br><u>Ecology</u>     | Complete closure of <del>Non-permitted</del> mixed waste units in the 324 building REC B-cell, REC D-cell, and high level vault <u>and low level vault in accordance with the Closure Plan DOE/RL-96-73, as amended and incorporated into the permit.</u>   | <del>09/30/2012-</del><br><u>TBE in</u><br><u>accordance</u><br><u>with M-089-06</u> |
| M-089-06-T01<br><u>Lead Agency:</u><br><u>Ecology</u> | <u>Submit the 30% design of the closure of mixed waste units in the 324 building REC B-cell, REC D-cell, and high level vault and low level vault that includes a schedule to complete the design.</u>  | <u>09/30/2014</u>  |
| M-089-06<br><u>Lead Agency:</u><br><u>Ecology</u>     | <u>Submit to Ecology in accordance with the procedures in WAC 173-303-830(4)(b), a request for a Class 2 modification to the Hanford dangerous waste permit, to include in the permit the "324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73" revised as necessary to address releases to the soil and to ensure compliance with requirements of WAC-173-303-610.</u><br><u>DOE's revised closure plan will include a schedule for completing closure activities.</u> | <u>06/30/2016</u>  |

|  |  |                                  |
|--|--|----------------------------------|
| <b>Change Number</b><br>M-93-12-02   | <b>Federal Facility Agreement and Consent Order<br/>Change Control Form</b><br>Do not use blue ink. Type or print using black ink. | <b>Date</b><br>November 26, 2012 |
| <b>Originator</b><br>J. A. Dowell  |  | <b>Phone</b><br>(509) 373-9971   |
| <b>Class of Change</b><br><input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager   |  |                                  |
| <b>Change Title</b><br>Provide a revised schedule for 105-KE and 105-KW Reactor Interim Safe Storage   |  |                                  |
| <b>Description/Justification of Change</b><br>Existing interim milestones M-093-22 and M-093-27 require completion of the Interim Safe Storage (ISS) removal action for the 105-KE Reactor by July 31, 2014 and the 105-KW Reactor by December 31, 2019, respectively.<br>The U.S. Department of Energy, Richland Operations Office and the U.S. Environmental Protection Agency agree that additional soil characterization in support of the 100 K Area integrated source and groundwater operable units remedial investigation/feasibility study is necessary prior to initiating the 105-KE Reactor ISS removal action. Therefore, milestone M-093-22 is deleted, with the scope combined with milestone M-093-27. Additional interim milestones are necessary to support the combined scope. A new milestone has been added to provide a change package that proposes a revised schedule with interim milestones.<br><i>Description/Justification of Change Continued on next page.</i> |  |                                  |
| <b>Impact of Change</b><br>This change deletes two interim milestones and modifies one interim milestone for completion of 105-KE and 105-KW Reactor ISS. It also adds a new interim milestone to provide a revised schedule for 105-KE and 105-KW Reactor ISS.  |  |                                  |
| <b>Affected Documents</b><br>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended, and Hanford Site internal planning, management, and budget documents.  |  |                                  |
| <b>Approvals</b><br>J. A. Dowell _____ Date _____ Approved _____ Disapproved _____<br>DOE<br>D. A. Faulk _____ Date _____ Approved _____ Disapproved _____<br>EPA<br>N/A _____ Date _____ Approved _____ Disapproved _____<br>Ecology  |  |                                  |

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

Modifications are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

| <b>Milestone</b>                              | <b>Title</b>   | <b>Due Date</b>   |
|---|--|-------------------|
| M-093-22                                      | Complete <del>105-KE Reactor interim safe storage in accordance with the removal Action Work Plan.</del>           | 07/31/2014        |
| M-093-26                                      | Initiate <del>105-KW reactor interim safe storage.</del>   | 12/31/2015        |
| M-093-27<br><u>Lead Agency:</u><br><u>EPA</u> | Complete <u>105-KE and 105-KW Reactor Interim Safe Storage in accordance with the Removal Action Work Plan.</u>    | 12/31/2019        |
| M-093-28<br><u>Lead Agency:</u><br><u>EPA</u> | <u>Submit a change package for proposed interim milestones for 105-KE and 105-KW Reactor Interim Safe Storage.</u> | <u>12/31/2015</u> |

|  |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
|--|--|----------------------------------|------------------------|----------|-------|-------------|----------|-------|-------------|--|------|--|--|--|--|--|-----------------------|-------|-------|-------|----------|-------|-------------|--|------|--|--|--|--|--|--------------------------|-------|-------|-------|----------|-------|-------------|--|------|--|--|--|--|--|
| <b>Change Number</b><br>M-94-12-04   | <b>Federal Facility Agreement and Consent Order<br/> Change Control Form</b><br><small>Do not use blue ink. Type or print using black ink.</small> | <b>Date</b><br>November 26, 2012 |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Originator</b><br>L.E. Gadbois  |  | <b>Phone</b><br>(509) 376-9884   |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Class of Change</b><br><input checked="" type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager   |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Change Title</b><br>Delay M-094-00 for the 300 Area due to soil contamination under the 324 Building, and create a new interim milestone for M-094 work exclusive of the 324 building.  |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Description/Justification of Change</b><br>Contamination in the soil beneath the 324 Building has been discovered and is good cause for an extension of the schedule to complete disposition of the 324 Building. The soil waste site 300-296 is highly radioactive and the 324 building is providing shielding and will be used for containment during remediation of the soil site.<br><br><i>Description/Justification of Change continued on the next page.</i>   |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Impact of Change</b><br>An interim milestone for decommissioning of facilities except the 324 building is created and the Major M-094-00 milestone is extended to allow addition time required because of the contaminated soil.  |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Affected Documents</b><br>The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended and Hanford Site internal planning, management, and budget documents.   |  |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| <b>Approvals</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">M. S. McCormick<br/>DOE</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">Approved</td> <td style="width: 10%; border-bottom: 1px solid black;">_____</td> <td style="width: 10%; border-bottom: 1px solid black;">Disapproved</td> </tr> <tr> <td></td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="border-bottom: 1px solid black;">D. J. McLerran<br/>EPA</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Approved</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Disapproved</td> </tr> <tr> <td></td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="border-bottom: 1px solid black;">T. Sturdevant<br/>Ecology</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Approved</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">Disapproved</td> </tr> <tr> <td></td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  |                                  | M. S. McCormick<br>DOE | _____    | _____ | _____       | Approved | _____ | Disapproved |  | Date |  |  |  |  |  | D. J. McLerran<br>EPA | _____ | _____ | _____ | Approved | _____ | Disapproved |  | Date |  |  |  |  |  | T. Sturdevant<br>Ecology | _____ | _____ | _____ | Approved | _____ | Disapproved |  | Date |  |  |  |  |  |
| M. S. McCormick<br>DOE   | _____  | _____                            | _____                  | Approved | _____ | Disapproved |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
|  | Date   |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| D. J. McLerran<br>EPA  | _____  | _____                            | _____                  | Approved | _____ | Disapproved |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
|  | Date   |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
| T. Sturdevant<br>Ecology   | _____  | _____                            | _____                  | Approved | _____ | Disapproved |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |
|  | Date   |                                  |                        |          |       |             |          |       |             |  |      |  |  |  |  |  |                       |       |       |       |          |       |             |  |      |  |  |  |  |  |                          |       |       |       |          |       |             |  |      |  |  |  |  |  |

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

Modifications are denoted by using ~~strikeout~~ to indicate text deletions and double underline to indicate text additions.

| Number   | Milestone   | Due Date                                   |
|--|---|--|
| M-094-00<br><u>Lead Agency:</u><br><u>EPA</u>        | <p>Complete disposition of <u>all</u> 300 Area surplus facilities identified in the removal action work plan(s) for the 300 Area facilities <u>including the 324 Building and its ancillary buildings and structures.</u></p> <p>Completion of facility disposition is defined as the completion of deactivation, decontamination, decommissioning, and demolition and obtaining <u>EPA and/or Ecology approval of the appropriate project closeout documents.</u> The cleanup of 300-FF-2 waste sites associated with 300 Area surplus facilities and utilities will be performed in accordance with Tri-Party Agreement major Milestone M-016-00B, M-016-69, and approved Remedial Design/Remedial Action Work Plans for the 300 Area waste sites by the specified due date as approved in removal or Remedial Action Work Plans.</p> | <del>09/30/2015</del><br><u>09/30/2018</u> |
| <u>M-094-10</u><br><u>Lead Agency:</u><br><u>EPA</u> | <p><u>Complete disposition of 300 Area surplus facilities identified in the removal action work plan(s) for the 300 Area facilities exclusive of the 324 Building and its ancillary buildings and structures.</u></p> <p><u>Completion of facility disposition is defined as the completion of deactivation, decontamination, decommissioning, and demolition and obtaining EPA and/or Ecology approval of the appropriate project closeout documents.</u> The cleanup of 300-FF-2 waste sites associated with 300 Area surplus facilities and utilities will be performed in accordance with Tri-Party Agreement major Milestone M-016-00B, M-016-69, and approved Remedial Design/Remedial Action Work Plans for the 300 Area waste sites by the specified due date as approved in removal or Remedial Action Work Plans.</p>         | <u>09/30/2015</u>                          |