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09-AMCP-0236

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Addressees:

DRAFT OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) CHANGE FORM M-85-09-01 "CREATE M-085 MILESTONE SERIES AND ESTABLISH MILESTONES FOR THE 221-U FACILITY IN ACCORDANCE WITH THE APPROVED REMEDIAL ACTION WORK PLAN."

This letter transmits a draft change form that specifies new milestones for disposition of the U Plant Canyon. This draft change form, if ultimately approved, would establish new milestones to complete the disposition of the 221-U Facility, and for key elements in the disposition of the 221-U Facility.

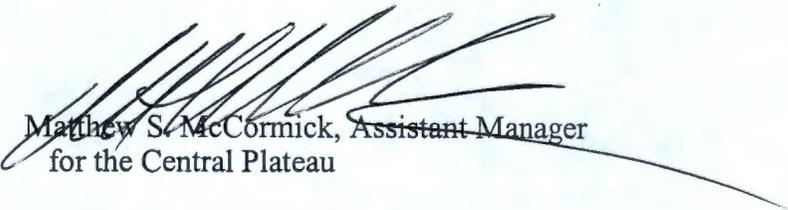
Submittal of this draft change form supports the completion of the June 26, 2008, resolution of dispute agreement for the 221-U Facility Remedial Design/Remedial Action Work Plan and the August 27, 2009, extension of terms for the submittal of a draft change package with proposed 221-U Facility closure milestones. The proposed milestones are also documented in the Remedial Design/Remedial Action Work Plan for the 221-U Facility (DOE/RL-2006-21), approved by the Parties in February 2009.

Addressees
09-AMCP-0236

-2-

If you have any questions, please contact me, or your staff may contact Margo Voogd, of my staff, on (509) 376-8375.

Sincerely,



Matthew S. McCormick, Assistant Manager
for the Central Plateau

AMCP:MJV

Attachment

cc w/attach:

G. Bohnee, NPT
F. W. Bond, Ecology
L. Buck, Wanapum
C. E. Cameron, EPA
S. Harris, CTUIR
R. Jim, YN
S. L. Leckband, HAB
M. L. Mandis, Ecology
R. D. Morrison, YAH
K. Niles, ODOE
J. B. Price, Ecology

Administrative Record (U Plant/221-U)
Environmental Portal

cc w/o attach:

D. L. Foss, CHPRC
R. E. Piippo, CHPRC
J. G. Vance, FFS

Attachment
M-85-09-01

Tri-Party Agreement change form: "Create M-085 milestone series and establish milestones for the 221-U Facility in accordance with the approved Remedial Action Work Plan."

Consisting of 4 pages,
including coversheet

Description/Justification (Continued from page 1).

In 1996, the Tri-Parties signed an agreement in principle to document the agreement that a CERCLA process would be used to evaluate alternatives for the disposition of the U Plant canyon (221-U Facility) as a prototype for the Canyon Disposition Initiative. A final record of decision (ROD) was signed in 2005 to document the result of the CERCLA evaluation, which was the selection of the "Close in Place – Partially Demolished Structure" alternative.

The selected 221- U Facility remedy includes (but is not limited to) the following components to complete disposition:

- Removal of waste from vessels and equipment in the facility that, if stabilized in place, would contain levels of transuranic isotopes greater than 100 nCi/g, in accordance with an approved Remedial Design/Remedial Action (RD/RA) work plan, and eventual disposal of that waste at the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico;
- Consolidation of contaminated equipment on the deck into below-deck locations (e.g., the process cells);
- Grouting of internal vessel spaces, as well as cell, gallery, pipe trench, drain header, and other spaces within the facility;
- Removal of roof and wall sections of the 221-U Facility down to approximately the deck level;
- Construction of an engineered barrier over the remnants of the canyon building.

Work at U Plant Area waste sites that could impact the 221-U remedy will be coordinated with the 221-U remedy. Some ancillary facilities will be addressed as part of the 221-U Facility action (i.e., the railroad tunnel connected to the facility, above-ground portions of the 291-U-1 stack, the 291-U Fan Control Building, and the 292-U Stack Monitoring Building), while the others will be evaluated separately.

The milestones contained in this change package include key activities associated with the selected remediation of the 221-U Facility, which will mitigate the potential threat to human health and the environment from radionuclides and hazardous substances at the facility.

The following milestones are added to the Hanford Federal Facility Agreement and Consent Order.

| Milestone | Description | Date |
|------------------|--|-------------------|
| <u>M-085-00U</u> | <p><u>Complete remediation of the 221-U key facility per the record of decision remedial alternative.</u></p> <p><u>This milestone will be complete when the 221-U facility legacy waste has been consolidated into below-deck locations, grouting activities have been completed, and the facility has been partially demolished, covered with a surface barrier and revegetated.</u></p> | <u>09/30/2024</u> |
| <u>M-085-10U</u> | <u>Initiate cell 30 vessel treatability study.</u> | <u>10/31/2013</u> |
| <u>M-085-15U</u> | <u>Initiate cell 30 waste design and safety documentation.</u> | <u>11/30/2013</u> |
| <u>M-085-20U</u> | <u>Complete facility reactivation design.</u> | <u>09/30/2015</u> |
| <u>M-085-25U</u> | <u>Complete equipment size reduction 90% design and submit Remedial Design Report (RDR) addendum.</u> | <u>09/30/2016</u> |
| <u>M-085-30U</u> | <u>Complete the 221-U Canyon grouting 90% design and submit Remedial Design Report addendum.</u> | <u>12/31/2018</u> |
| <u>M-085-35U</u> | <u>Complete partial canyon demolition 90% design and submit RDR addendum.</u> | <u>04/30/2021</u> |
| <u>M-085-40U</u> | <u>Complete 90% of the engineered barrier design and submit RDR addendum.</u> | <u>04/30/2022</u> |
| <u>M-085-45U</u> | <u>Finalize 221-U Operations and Maintenance Plan.</u> | <u>09/30/2024</u> |