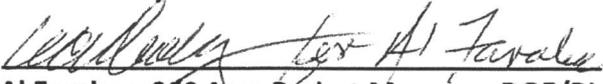
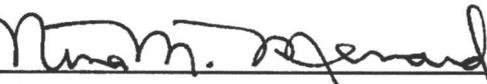


Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
March 19, 2015

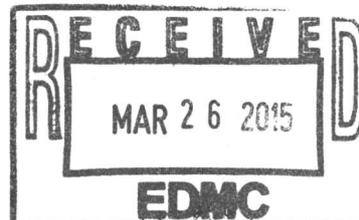
APPROVAL:  DATE: 3/19/2015
Mike Cline, 200 Area Unit Manager, DOE/RL

APPROVAL:  DATE: 3/19/2015
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  DATE: 3/14/2015
Emerald Laija, 200 Area Project Manager, EPA

APPROVAL:  DATE: 3/19/2015
Nina Menard, 200 Area Project Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Project Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 4 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.



**DISTRIBUTION
PROJECT MANAGERS' MEETING,
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS
March 19, 2015**

DOE/RL

(No hard copy distribution)

EPA

Emerald Laija

B1-46

Ecology

Nina Menard

H0-57

CHPRC

Jane V. Borghese (original)

H8-43

Administrative Record (2)

H6-08

Correspondence Control

G3-39

Minutes of the 200 Area Project Managers' Meeting of March 19, 2015 are attached. Minutes are comprised of the following:

- | | |
|---------------------|---|
| Attachment 1 | Attendance Record |
| Attachment 2 | Agreements and Issues List |
| Attachment 3 | Action Item List |
| Attachment 4 | Operable Units and Facilities Status |

200 Area Project Managers' Status Meeting
March 19, 2015

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Janel Borgler	CHPRC	TPA	373-3804
Gabriel Broome	WOODH	NA	943-5217
Shelley Simon	ODOLE		(541) 240-0141
NINA Menard	Ecology		372-7941
Michael Collins	DOE-RL		376 6536
Zelma Jackson	ECY	DV	372-7910
Emily Laja	EPA		
Craig Cameron	EPA		376-8665
Ben Vane h	EPA DOE		501 3769623
KIM WELSCH	ECY		372-7882
JOHN Monso	DOE		376-0057
Wanda Elliott	Ecology HNRIC		372 7904
Jenne Seaver	CHPRC		376-7510
NABHI JASCHKE	DOE		376-5594
Mike Clime	DOE		376-6070
Keelan Abenth	DOE		376-1076
JOE AXTELL	DOE		373 6687
RD H. Hebra	DOE		373-9626
Wade Woolery	DOE RL		372 2889

**200 Area Project Managers' Meeting
Agreements and Issues List
March 19, 2015**

Agreement: None

Issue: None

Announcements: None

Delegations for March 19, 2015 PMM meeting:

DOE/RL Wade Woolery for Al Farabee

200 Area Project Managers' Meeting
March 19, 2015

CHPRC-1500922
Attachment 3

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
159	Add status and number of wells drilled for M-24 milestone into March 2015 PMM package	DOE/J. Sands	Ecology	11/20/14	1/15/15	3/19/2015	Closed; 22 wells accepted; 4 being drilled; 4 under contract
160	RL to talk to EPA/Craig Cameron regarding U Plant Closure/M-016-200A	DOE/A. Farabee	EPA	11/20/14	1/15/15	3/19/2015	Closed until milestone realignment.
161	DOE to send M15-21A and 92A Change package to Ecology	DOE/B. Vannah	Ecology	1/15/15	4/1/15		Open; packages will be formally transmitted by the end of March 2015.

200 AREA PROJECT MANAGERS' MEETING

Milestones and Operational Status by OU

March 19, 2015

Deep Vadose Zone 200-DV-1 Ecology Lead (RL – John Morse, CHPRC – Mark Byrnes)

- **M-015-110A: Submit RFI/CMS & RI/FS work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of Deep Vadose Zone contaminants, 3/31/2015**
 - *The Draft A RFI/CMS & RI/FS WP is being finalized for delivery to Ecology by March 31, 2015.*

Milestone Status: On Schedule• **Perched Water EE/CA / Action Memorandum**

- *The Perched Water Action Memorandum was signed in December 2014, currently preparing the Removal Action Work Plan.*
- *The B Area perched water extraction system removed 6,259 gallons in February, bringing the total volume of perched water removed to 262,934 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed:*

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	6,259	262,934
Tc-99	4.1E-04 Ci	31.72E-03 Ci
Uranium	0.9 kilograms	54.8 kilograms
Nitrates	8.7 kilograms	513.6 kilograms

- **M-015-110B: Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015**
 - *This work cannot be performed in the time available from issuance of the work plan (March 31, 2015) and the milestone due date of September 30, 2015. This milestone was not adjusted when the M-015-110A milestone was renegotiated.*
 - *Continue planning for the characterization of the 200-DV-1 waste sites in accordance with the SAP.*

Milestone Status: To be missed.**Regulatory Agency Comments:** N/A**200-EA-1 and 200-IS-1** Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)**200-IS-1**

- **M-015-112: Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS WP to Ecology, including a schedule of completion dates for major tasks and deliverables, 2/28/2014.**
 - *On December 10, 2013, TPA dispute resolution was invoked and an extension to resolve issues at the project manager level was requested. Ecology has agreed to extend the dispute at the project manager's level to March 30, 2015.*
 - *Transmitted Draft Change Packages C-13-01 and C-14-02 to Ecology on September 16, 2014, noting that C-13-01 included a memo 'Assessment of the Regulatory Pathway to the 200-IS-1 Operable Unit Waste Sites.' The two change packages are undergoing Ecology attorneys and State Attorney General review regarding TSD designations.*
 - *Conducted waste site 'Interface Points' discussion with Ecology on March 4, 2015.*

Milestone Status: Dispute resolution. The parties are currently working on identifying the Work Plan scope (e.g., change packages C-13-01 and C-14-02) and associated revised delivery schedule.

200-EA-1

- **M-015-92A, Submit a RFI/CMS & RI/FS work plan for the 200-EA-1 OU (200 East Inner Area) to Ecology, 6/30/2015**
 - *Not funded in FY14 - Work has been deferred based on site priorities. A TPA change package is under preparation to adjust the milestone date.*

Milestone Status: To be missed.

200-EA-1 and 200-IS-1 Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)

- **M-015-92B: Submit CMS & FS Report(s) & Proposed CA Decision(s)/PP(s) for the 200-EA-1 and 200- IS-1 OUs (Central Plateau 200 East Inner Area) to Ecology, 12/31/2016**
 - *200-IS-1: Milestone date will need to be adjusted based on outcome of dispute resolution for M-015-112 and associated 200-IS-1 Work Plan approval date.*
 - *200-EA-1: Milestone date will need to be re-evaluated based on the Central Plateau package (see M-015-92A discussion).*
 - *Transmitted to Ecology for review a draft change package for splitting 200-IS-1 and 200-EA-1 Operable Units.*

Milestone Status: To be missed.

Regulatory Agency Comments: Ecology and DOE agreed to extend the dispute resolution for Milestone M-015-112 to May 31, 2015.

200-SW-2 Ecology Lead (RL- Doug Hildebrand, CHPRC – Phil Burke)

- **M-015-113: Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology, including a schedule of completion dates for major tasks and deliverables, 3/31/2015**
 - *Draft B RI/FS Work Plan is being finalized for delivery to Ecology by March 31, 2015.*

Schedule Status: On schedule.

- **M-015-93B: Submit RFI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2, 12/31/2016**
 - *Milestone date will need to be adjusted based on the approval of the work plan (200-SW-2 work plan).*

Milestone Status: At risk

Regulatory Agency Comments: N/A

200-SW-1 Ecology Lead (RL- Doug Hildebrand)

- **EA released for public review August 29, 2011. The last of the public comments were received on November 17, 2011.**

Schedule Status: Due to budgetary constraints, no further action is scheduled for FY15 and FY16.

Regulatory Agency Comments: N/A

200-BC-1 and 200-WA-1 EPA Lead (RL- John Sands, CHPRC – Phil Burke)**200-WA-1**

- **M-015-91A: Submit a RI/FS work plan for the 200-WA-1 OU (200 West Inner Area) to EPA, 12/31/2011**
 - Draft B RI/FS Work Plan is being finalized for submittal to DOE in late April.

Schedule Status: Milestone complete. Draft B RI/FS work plan is currently planned for submittal to the regulatory agencies late May 2015.

200-BC-1 and 200-WA-1

- **M-015-91B: Submit Feasibility Study Report(s) and Proposed Plan(s) for the 200-BC-1/200-WA-1 operable units (200 West Inner Area) to EPA, 12/31/2015**
 - Awaiting finalization of the work plan. This milestone date will need to be revised based on issuance of the Rev 0 work plan.

Milestone Status: To be missed.

Regulatory Agency Comments: N/A

200-CW-1, 200-CW-3, 200-OA-1 EPA Lead (RL –Ben Vannah , CHPRC – Phil Burke)

- **M-015-38B: Submit a revised FS Report and revised PP(s) for 200-CW-1, 200-CW-3, and 200-OA-1 OUs for Waste Sites in the Outer Area of the Central Plateau to EPA, 10/30/2015**
 - Received EPA approval on July 21, 2014, to revise the Outer Area RI/FS and PP milestone M-015-38B due October 30, 2014. The Change Control Form extends the milestone to October 30, 2015, to submit a schedule for this document considering the Central Plateau strategic planning and future funding.

Milestone Status: To be missed

Regulatory Agency Comments: N/A

200-BP-5 and 200-PO-1 Ecology Lead (RL – John Morse, CHPRC – Curt Wittreich)

- **M-015-82B: Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval, approval of TTP + 6 months**
 - The treatability test is planned for August 2015, to accommodate the installation of the uranium treatment system at the 200 West Pump and Treatment Facility, and a pipeline from 200-BP-5 to 200 West P&T.
 - Completed the draft 90% design package for the 200-BP-5 pipeline.

- *RL transmitted the Treatability Test Plan (DOE/RL-2010-74), Rev 2, Draft A for regulator review. This revision changes the treatment of groundwater extracted from the ETF in the 200 East Area to the 200 West Pump and Treat Facility.*

Schedule Status: Milestone complete, testing expected to start in August 2015.

- **M-015-21A: Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015**
 - *Ecology's comments of the 200-PO-1 SAP were received on January 7, 2015 and are in the process of being dispositioned. A comment disposition meeting has been schedule for March 24, 2015 with Ecology.*
 - *Completed Decisional Drafts of the 200-BP-5 RI Report and 200-PO-1 RI Report Addendum (the 200-PO-1 RI Report was issued October 2012), which are currently under DOE review.*
 - *The 200-BP-5 Draft A RI report and 200-PO-1 Draft A RI Report Addendum are on schedule to be complete by June 30, 2015. The 200-BP-5 and 200-PO-1 FS Report and PP, DOE plans to deliver to the Regulators by September 30, 2016. A TPA change package will be prepared for the milestone change. TPA change package is scheduled to be delivered by the end of March 2015.*

Milestone Status: Milestone to be missed. However, the 200-BP-5 RI Report and 200-PO-1 RI Report Addendum are planned to be delivered by June 30, 2015.

Regulatory Agency Comments: N/A

M-015 Milestone Series, Major Milestone *Dual Agency Lead*

- **M-015-00: Complete the RI/FS Process for all Non-Tank Farm OUs, 12/31/2016**
 - *This milestone may be impacted by the interim OU milestones stused above.*

Milestone Status: At risk

Regulatory Agency Comments: N/A

200-PW-1/3/6 and CW-5 ROD Implementation *EPA Lead (RL- Julie Reddick, CHPRC –Patrick Baynes)*

- **M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200-CW-5 and 200-PW-1/3/6 to EPA as described in Section 12.4 of the associated ROD, 9/30/2015**
 - *A facilitated session to define a viable technical approach for remediation of the 200-CW-5 and 200-PW-1/3/6 Operable Units was held during the last week of January 2015.*

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

200-PW-1 Soil Vapor Extraction Operations *EPA Lead (RL – John Morse, CHPRC – Mark Byrnes)*

- *Rebound sampling was performed in May and June 2014, that shows over the past year the majority of the wells across the operable unit remained below the cleanup levels established for carbon tetrachloride and methylene chloride in the PW-1 OU Record of Decision. EPA has approved suspending operation of the SVE system for another year to conduct another round of rebound sampling in 2015. This rebound sampling is currently scheduled for June 2015.*

- A path forward document (DOE/RL-2014-18) has been signed by EPA that identifies the specific steps outlined in PNNL-21843 for how a soil vapor extraction project comes to closure. A follow-on document has been prepared and will be issued to EPA in March 2015, which identifies specifically where the 200-PW-1 SVE operations are in this process and what final steps need to be taken to permanently discontinue all future 200-PW-1 SVE operations.

Regulatory Agency Comments: N/A

200-UP-1 Remedy Implementation EPA Lead (RL – Naomi Jaschke, CHPRC – Curt Wittreich)

- **M-016-190: Complete the installation of extraction and injection wells for the U Plant area pump & treat system for uranium and technetium-99, and the iodine-129 hydraulic containment system as defined in the 200-UP-1 RD/RAWP, 9/30/2015**
 - Design is complete and construction is underway for the uranium plume extraction system. One of two extraction wells is complete.
 - The procurement process for drilling three I-129 injection wells is underway. The installation of these wells is on schedule to be completed by September 30, 2015.
 - The Sampling and Analysis Plan for Remediation Wells in the 200 UP 1 Operable Unit, Rev. 1 (DOE/RL-2014-27) was approved by EPA on February 24, 2015.

Milestone Status: On schedule.

- **M-016-191: Complete acceptance test procedures and operational test procedures and initiate startup operations for the U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system, 3/30/2016**
 - Design is complete and construction is underway for the uranium treatment system. The uranium IX treatment train has been delivered and placement is proceeding. Welding of above-ground HDPE pipe to the extraction wells is nearing completion.
 - Completed the draft 90% design package for the I-129 plume hydraulic containment system, and initiated the materials procurement process.

Milestone Status: On schedule. Startup of U Plant area P&T for uranium and Tc-99 is planned in FY2015.

- **M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the UP-1 RD/RA WP, 6/17/2016**
 - Laboratory, field data evaluation and technology reviews are currently being performed to develop the Technology Evaluation Plan Draft A.

Milestone Status: On schedule.

- **M-016-193: Complete the remedial design investigation of the SE chromium plume, including the installation of new wells and evaluation of the GW monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the UP-1 RD/RA WP, 9/30/2017**
 - Planning three remedial design investigation wells for FY2016.

Milestone Status: On schedule.

Regulatory Agency Comments: M-016-190; EPA will expect a future meeting to discuss completion of this milestone

200-ZP-1 EPA Lead (RL – John Morse, CHPRC – Mark Bymes)

- During the months of January and February 2015, the pumping rates at the 200 West P&T ranged from ~1368 gpm to 2,034 gpm. The two ion exchange resin trains ran between 414 gpm and 572 gpm combined capacity, removing technetium-99 from groundwater from wells near the TX-TY Tank Farm, T Tank Farm, as well as S-SX Tank Farm.
- 483 kg of carbon tetrachloride and 12,025 kg of nitrate as N (or 53,254 kg nitrate as NO₃) were recovered during January and February 2015.
- The average concentration of contaminants of concern in the effluent water remains below the cleanup levels specified in the Record of Decision.
- Drilled four new injection wells to depth. Completed construction and tie in to the facility of one new injection well (YJ-7) which is undergoing operational testing. YJ-8 and YJ-16 are under construction. The recovery plan is complete for YJ-25 which was damaged during construction.

Regulatory Agency Comments: N/A

200 Area Groundwater

- **M-016-119-T01: DOE will have a remedy in place to contain existing groundwater plumes (except iodine, nitrate, and tritium) in the 200 NPL Area, 12/31/2020**

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

M-016 Milestone Series, Major Milestone Dual Agency Lead

- **M-016-00: Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs, 9/30/2024**
 - *This milestone may be impacted by the interim OU milestones stated above.*

Milestone Status: At risk

Regulatory Agency Comments: N/A

M-024 Milestone Series/Well Drilling Ecology Lead (RL-John Sands, CHPRC-Mark Cherry)

- **M-024-58H: Initiate Discussions of Well Commitments, 6/01/2015 – On schedule**
- **M-024-66-T01: Conclude Discussions of Well Commitments, 8/01/2015 – On schedule**
- **M-024-66: DOE Shall Complete Construction of all Wells Identified in M-24-12-01, 12/31/2015 – On schedule**
- **M-024-00O: Complete Well Installations with RCRA/CERCLA Requirements, TBD - In program planning**

Regulatory Agency Comments: N/A

200 Area RCRA TSD Closures Ecology Lead (RL – John Sands/Joe Axtell, CHPRC – Phil Burke)

- **M-037-03: Submit Revised Closure Plans to support TSD closure for two (2) TSD Units: 216-B-3 Main Pond system, and 216-S-10 Pond and Ditch, 4/30/13**
 - The two closure plans were submitted to Ecology on April 23, 2013.
 - Ecology issued a letter on July 12, 2013 (Notice of Deficiencies for the 216-B-3 Main Pond Closure- DOE/RL-2013-24, Draft A and the 216-S-10 Pond and Ditch Closure Plan- DOE/RL-2006-12, Draft B), requesting DOE to revise and resubmit the closure plans correcting the deficiencies as part of Rev. 9 or as a permit modification.
 - DOE-RL NOD responses extended to December 9, 2013 to enable coordination with Ecology guidance documents in support of the Hanford RCRA permit.
 - Transmitted NOD responses on December 3, 2013.
 - Ecology provided a response to the NOD response on March 19, 2014.
 - Issues were elevated to Ecology AGs to help with resolution.

Schedule Status: Milestone complete; closure plans undergoing NOD process.

- **M-037-02: Submit Revised Closure Plans to support TSD closure for five (5) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, and 216-B-63 Trench, 06/30/2014**
 - Submitted the five RCRA TSD Closure Plans on June 24, 2014, to fulfill the Tri-Party Agreement Interim Milestone M-037-02. Ecology requested an additional extension for the transmittal of comments on February 19, 2015, to March 11, 2015.

Milestone Status: Complete.

- **M-037-11: Complete unit-specific closure requirements for two (2) TSD Units; 216-B-3 Main and Pond system and 216-S-10 Pond and Ditch, 9/30/2016**
 - The outstanding Notice of Deficiency comments on the closure plans have not been resolved which prevents finalization of the plans.

Milestone Status: At Risk.

- **M-037-10: Complete Unit-Specific Closure Requirements According To The Closure Plan(s) for seven (7) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A36B Crib, 216-A-37-1 Crib, 216-B-63 Trench, Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72), 9/30/2020**

Milestone Status: On schedule

Regulatory Agency Comments: M-037-03; Ecology AGs have analyzed the past contamination issue and Ecology staff will be meeting with DOE staff to determine the path forward.

Canyon Facilities

U Plant Canyon EPA Lead (RL – Wade Woolery, CHPRC – TBD)

- **M-016-200A: Complete U Plant Canyon (221-U) demolition in accordance with the RD/RAWP, 9/30/2017**
Milestone Status: At Risk
- **M-016-200B: Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021**
 - These milestones may be impacted by the 200-WA-1 and 200-IS-1 OU interim milestones stated above.

Milestone Status: At risk

Regulatory Agency Comments: N/A

Canyon Facilities EPA/Ecology Lead (RL – Ray Corey, CHPRC – Moses Jaraysi)

- **M-085-02: Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for Canyons and RAWPs for 224B & 224T, 9/30/2015**
 - *DOE is looking at putting this milestone in with the negotiations of the M15 series.*

Milestone Status: At risk

- **M-085-01: Submit a Change Package to Establish a Date for Major Milestone M-085-00, 9/30/2022**
- **M-085-00: Complete response actions for the canyon facilities/associated past practice waste sites, other Tier 1 Central Plateau facilities not covered by existing milestones, and Tier 2 Central Plateau facilities. 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**

Milestone Status: On schedule

Regulatory Agency Comments: N/A