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

DOE/RL

(No hard copy distribution)

EPA

Emerald Laija A3-46

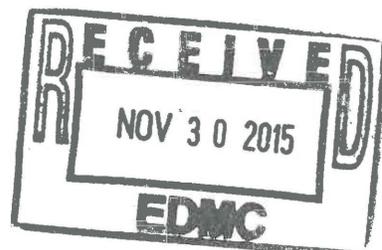
Ecology

Nina Menard H0-57

CHPRC

Jane V. Borghese (original) H8-43

Administrative Record (2) H6-08  
Correspondence Control G3-39



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

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APPROVAL:  DATE: 11/19/2015  
Mike Cline, 200 Area Unit Manager, DOE/RL

APPROVAL:  for DATE: 11/19/2015  
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  for DATE: 11/19/2015  
Emerald Kaija, 200 Area Project Manager, EPA

APPROVAL:  DATE: 11/19/15  
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.

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

<b>Attachment 1</b>	<b>Attendance Record</b>
<b>Attachment 2</b>	<b>Agreements and Issues List</b>
<b>Attachment 3</b>	<b>Action Item List</b>
<b>Attachment 4</b>	<b>Operable Units and Facilities Status</b>
<b>Attachment 5</b>	<b>Groundwater Monitoring Report – November 2015 (October 2015 Data)</b>
<b>Attachment 6</b>	<b>TPA-CN-635</b>
<b>Attachment 7</b>	<b>TPA-CN-673</b>

200 Area Project Managers' Status Meeting  
November 19, 2015

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Kim WELSch	ECY	REGULATOR	372-7882
Stacey Simon	ODOG		(541) 963-0803
Craig Cameron	EPA	Proj Mgr.	376-8665
JOE AXTELL	DOE	MOBT	373-6687
Tim Mullin	Ecny	Regulator	372-7970
Dan Peers	WDOH	Regulator	509-943-6509
JULIE REDDICK	DOE		376-2003
Jenne Stults	CHPRC	Proj Mgr	376-7510
Nina Monard	ECY	Proj. Mgr.	372-7941
Rod Lobos	EPA	Proj Mgr.	376-3749
Marty Douribus	CHPRC	Director	438-5516
Ben Vannah	DOE-RL		509 586 9623
Jane V Borjha	CHPRC	-	373-3803
Michael Cline	DOE-RL	-	376-6070
Kate Amrhein	DOE-RL		376-9391
Jim Hanson	DOE-RL	-	373-9068
John Sands	DOE-RL	WA-1, RC-1	372-2282
D. Goswami	Ecology	Project Mgr.	372-7902



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

**Agreement:** None

**Issue:** None

**Announcements:** None

**Delegations for November 19, 2015 PMM meeting:**

DOE/RL      Wade Woolery for Al Farabee

EPA          Craig Cameron for Emerald Laija

**200 Area Project Managers' Meeting  
November 19, 2015**

CHPRC-1505094  
Attachment 3

**OPEN ACTION ITEM TRACKING**

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
165	EPA requests status of REDOX roof.	RL/ W. Woolery	EPA	9/17/15	11/19/15	1/21/2016	status was given and will be revisited at January meeting.
166	Add Action Items to Agenda	CHPRC/J. Borghese	All	9/17/15	11/19/15		Closed. Items added to agenda
167	DOE to discuss completion criteria for M-016-119-T01 with EPA and Ecology	RL/J.P. Hanson	EPA and Ecology	11/19/15	3/31/16		
168	Develop change package for 207-A to add to TPA Appendix C	J. Borghese and B. Vannah	Ecology/N. Menard	11/19/15	1/29/16		
169	EPA requests breifing on annual surveillance for REDOX	RL/Wade Woolery	EPA	11/19/15	1/21/16		

**200 AREA PROJECT MANAGERS' MEETING**  
November 19, 2015

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

- The issue date for the RI/FS Work Plan Rev 0 is moved out to January 15, 2016. This extension date was requested by RL so that the final negotiated Central Plateau principals and parameters could be integrated into the document. Drilling began October 1, 2015, at the BY Cribs locations using a Becker Hammer rig. At this time, casing has successfully been installed from surface to below the high radiological interval in 11 of 21 boreholes as indicated by downhole logging. Geophysical logging at location C9487 (near the 216-B-7 A & B Cribs in 200 East) revealed that the high radiological risk interval extends below the original estimated depth. The Becker Hammer rig will need to be remobilized to drill this borehole deeper. Currently, the Becker Hammer drill rig continues progress in the 200 West Area in the vicinity of the T & S Complexes. Eight borehole locations have been cleared for sonic drilling, which will drill from below the high radiological risk interval to total depth. The sonic rig is expected to mobilize in mid-December 2015.

Primary Borehole ID#	Waste Site	Becker/Geoprobe Push Depth (ft)	Estimated High RAD Interval (ft)	Target Depth of Investigation (ft)	Total Number of Samples Collected	Total Number of Samples To Be Collected
C9550	BY Cribs	43.8	15-45	197	3	11
C9549	BY Cribs	45.4	20-45	197	7	12
C9552	BY Cribs	45	Sep-45	197	3	14
C8706	BY Cribs	45.3	14-45	197	3	11
C9491	216-B-37	51.2	14-52	222	3	8
C9487	216-B-7 A&B	33.4	19-33	237	3	13
C9490	219-B-9	34.2	14-34	250	3	9
C9489	219-B-9	34.2	Dec-35	250	3	9
C9492	216-T-5	40.5	NA	95	3	8
C9494	216-T-5	40.4	0-35	95	0	GPL only
C9495	216-T-14	35.8	0-35	105	0	GPL only
C9496	216-T-15	35.7	0-35	105	0	GPL only
C9505	216-T-15	TBD	Oct-34	105	0	5
C9510	216-T-25	TBD	14-40	115	0	9
C9511	216-T-23	TBD	14-40	115	0	9
C9506	216-T-18	TBD	Dec-34	100	0	8
C9512	216-S-9	TBD	30-46	134	0	9
C9514	216-S-21	TBD	15-40	121	0	9
C9488	216-B-8	TBD	25-42	224	0	8
C9499	216-T-6	TBD	15-43	105	0	8
C9502	216-T-6	TBD	15-43	105	0	GPL only

- The perched water removal system was shut down on August 20, 2015, to support construction of two new perched water removal stations and retrofit of the original station. Construction of the new system is expected to be completed by the end of November 2015.
- The Sampling and Analysis Plan and the Removal Action Work Plan were signed by all parties on November 18, 2015

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	-	301,156
Tc-99	-	36.3 E-03 Ci
Uranium	-	68.5 kg
Nitrates	-	579.3 kg

**M-015-110B:** Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2023.

Regulatory Agency Comments: N/A

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

- Conducted in depth review with Ecology (October 14, 2015) on 11 additional catch tanks and similar structures; proceeding with C-13-01 change control form updates based on conceptual agreement reached during these meetings.
- Conducted Ecology workshop on the groundwater protection evaluation approach and associated liquid release model overview on October 27, 2015.
- Conducted two additional Ecology hands-on training sessions associated with HLAN, EDA, and WIDS on October 28 and 29, 2015.

**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.

- 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), TSD identification, and associated revised delivery schedule. The dispute resolution is currently extended to January 29, 2016.

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/17.

**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

- Status: Tentative Agreement signed on 10/26/2015 revised text to remove IS-1 proposed a due date of 11/30/2022, and proposes a new milestone for IS-1 RCRA Facility Investigation and Remedial Investigation to a milestone scope.

Regulatory Agency Comments: N/A

**200-SW-2** Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)

- Completed aerial radiation survey field activities supporting RL on September 27, 2015.
- Requested 90-day extension through January 20, 2016 for the Rev. 0 RI/FS work plan delivery.
- Received the Draft B RI/FS WP comments from the Confederated Tribes and Bands of the Yakama Nation from RL on October 5, 2015.

- M-015-93B:** Submit RFI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2, 12/31/2016
- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 1/31/2023.

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. Due to budgetary constraints, no further action is scheduled for FY2015 or planned for FY2016.

Regulatory Agency Comments: N/A

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

- The 200-BC-1&200-WA-1 Draft B RI/FS Work Plan is with EPA undergoing review. Comments are due back on November 23, 2015.
- Funding has been approved to complete and issue the Rev. 0 RI/FS Work Plan in FY2016 as well as to begin preparation work for fieldwork.

**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

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 7/31/2021. Also included two new milestones; P-015-98 and P-015-99.

Regulatory Agency Comments: N/A

**200-CW-1, 200-CW-3, 200-OA-1** EPA Lead (RL –Ben Vannah, CHPRC – Bert Day)

- Nothing to report

**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, revised due date to be identified by 10/30/2015

- Status: Tentative Agreement signed on 10/26/2015 proposed text changes and a due date of 7/31/2023.

Regulatory Agency Comments: N/A

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

- Initiated the 200-BP-5 Treatability Test on September 30, 2015. The aquifer pumping test will continue until mid-November.
- Completed installation of the first pipeline to support the 200-BP-5 treatability test and turnover to operations on September 22, 2015. Completed welding activities on the second pipeline on September 30, 2015.
- 200-BP-5 EE/CA comments being resolved with DOE.
- 200-BP-5 RI and 200-PO-1 Addendum are under Ecology review.

**M-015-21A:** Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 6/30/2018.

Regulatory Agency Comments: N/A

**M-015** Dual Agency Lead

- The major milestone may be impacted by the interim OU milestones stated above.

**M-015-00:** Complete the RI/FS Process for all Non-Tank Farm OUs, 12/31/2016

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 6/30/2026.

**Regulatory Agency Comments:** N/A

**200-PW-1/3/6 and CW-5** EPA Lead (RL- Robert Long, CHPRC –Patrick Baynes)

- Received EPA comments on the RD/RAWP and SAP on November 2, 2015. A meeting has been scheduled for the week of November 16, 2015, to discuss the path forward.

**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.

- Status: Completed.

**Regulatory Agency Comments:** N/A

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

- Delivered a historical data evaluation to EPA on October 20, 2015, verifying that no carbon tetrachloride source has been missed to the south. Based on this evaluation, on November 2, 2015, EPA gave their concurrence on terminating all future SVE operations. A site closeout remedial action report will now be prepared. DOE is waiting on transmittal of formal concurrence.

**Regulatory Agency Comments:** N/A

**200-UP-1** EPA Lead (RL – Kate Amrhein, CHPRC – Curt Wittreich, PNNL-D. Wellman [I-129])

- Began unattended operations of the uranium extraction and treatment system to treat uranium contaminated groundwater on September 21, 2015.
- Completed construction of the three I-129 injection wells to meet Tri-Party Agreement Milestone M-16-190 on September 24, 2015. This milestone includes installation of extraction and injection wells for the U Plant uranium, technetium-99, and iodine-129 plume remedies.
- Completed construction of the I-129 plume hydraulic containment system and project turnover to operations on September 30, 2015.
- Laboratory, field data evaluation and technology reviews are currently being performed to develop the I-129 Technology Evaluation Plan Draft A.

**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, 12/29/2015.

- Status: Completed September 29, 2015. RL transmitted completion letter to EPA on November 3, 2015.

**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.

- Status: On schedule.

**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.

- 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.

- Status: On schedule.

**Regulatory Agency Comments:** N/A

**200-ZP-1** EPA Lead (RL – John Morse, CHPRC – Byrnes/Barrett)

- Drilling reached total depth of 428 ft bgs on new monitoring well 299-W5-2. Construction started on October 28, 2015 and is nearly complete at 75 ft bgs. Depth discrete sampling was completed during drilling and some analytical results have been received.
- Drilling of new monitoring well 299-W13-2 is nearly complete at 449 ft bgs. The Ringold lower mud unit was encountered at 404 ft bgs. The driller will continue to drill through the RLM and collect depth discrete samples below the RLM then decommission the borehole to just above the RLM as the well will be completed above the RLM.

**Regulatory Agency Comments:** N/A

**M-016** Dual Agency Lead

- Remediation efforts are on-going to meet the target date T01.
- The major milestone may be impacted by the interim OU milestones stated above.

**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

- Status: On schedule.

**M-016-00:** Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs, 9/30/2024

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of TBD. The date will be set by proposed milestone M-016-02 on 6/30/2026.

**Regulatory Agency Comments:** N/A

**M-024** Ecology Lead (RL-John Sands, CHPRC-Dave Capelle)

**M-024-66:** DOE Shall Complete Construction of all Wells Identified in M-24-12-01, 12/31/2015

- Status: Complete, September 17, 2015.

**M-024-67I:** Initiate Discussion of Well Commitments, 6/1/2016

- Status: On schedule.

**M-024-67-T01:** Conclude Discussion of Well Commitments, 8/1/2016

- Status: On schedule.

**M-024-67:** DOE Shall Complete Construction of all CY2016 Wells Identified in M-24-13-01, 12/31/2016

- Status: On schedule.

**M-024-68:** DOE Shall Complete Construction of all CY2017 Wells and before Identified in M-24-14-01, 12/31/2017

- Status: On schedule.

**M-024-000:** Complete Well Installations with RCRA/CERCLA Requirements, TBD - In program planning

- Status: On schedule.

**Regulatory Agency Comments:** N/A

**200 Area RCRA TSD Closures** Ecology Lead (RL – John Sands/Joe Axtell, CHPRC – Patrick Baynes)

**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

- Status: On Schedule. Tentative Agreement signed on 10/26/2015 proposed moving 241 CX Tank System to a separate, newly created milestone M-037-13 due 09/30/2022.

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2021.

**Regulatory Agency Comments:** Ecology will move forward with either rejecting or generating notice of deficiency for these units.

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2021.

**M-016-200B:** Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2024.

**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

- Status: Tentative Agreement signed on 10/26/2015 completed this milestone. RL letter being drafted.

**M-085-01:** Submit a Change Package to Establish a Date for Major Milestone M-085-00, 9/30/2022

- Status: On Schedule. Tentative Agreement signed on 10/26/2015 proposed a due date of 06/30/2026.

**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

- Status: In Program Planning.

Regulatory Agency Comments: N/A

NOTES:

- Approved TPA Change Notices, TPA-CN-635 and TPA-CN-673, which modify DOE/RL-2010-33 Rev 0 "*Removal Action Work Plan for the Central Plateau Decommissioning Activities*" are in Attachments 6 and 7, respectively.

## Project Managers Meeting – November 2015 *(October Data)*

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Hanford's overall Site groundwater monitoring program managed by CHPRC (River Corridor and Central Plateau) coordinates collection of groundwater samples from wells and aquifer tubes, as well as surface water samples from springs. Sample trips are scheduled by target month and prioritized based on project needs. Target sample dates (months) are chosen to minimize the number of sample trips by temporally aligning requests from multiple activities for a single location into a single trip where practical.

### **Sample Trip Status by Month Scheduled**

For Fiscal Year 2016 Hanford's overall Site groundwater monitoring program has 2,853 sample trips scheduled for collection. We have successfully completed 312 of 499 sample trips scheduled for October 2015.

During October 2015, 333 Fiscal Year 2016 sample trips were successfully collected. This includes the 309 trips scheduled for October 2015 and 24 trips scheduled for November 2015. Additionally 3 Fiscal Year 2016 trips scheduled for October 2015 were sampled in September 2015 and 11 Fiscal Year 2015 trips were collected in October 2015.

The specific wells, aquifer tubes, and springs sampled in the central plateau during October 2015 are listed in Table 1.

### **Awaiting Sample Trips**

Of the Fiscal Year 2015 and 2016 sample trips scheduled for October 2015 and prior, there are 324 that are awaiting collection. Of these, 8 require maintenance, 14 have access restrictions, 4 are not on the Well Access List, 5 are being evaluated for cancelation or rescheduling, 247 are associated with special studies, 1 is awaiting drilling and 45 are awaiting collection at the end of November.

Table 2 presents the sample trips for only the central plateau that were not successfully completed in October. Sample trips in Table 2 are grouped by fiscal month scheduled and groundwater interest area. This table clearly shows that the number of awaiting well trips decreases with time from the schedule date. Reasons for sample trips awaiting sampling include but are not limited to issues such as well maintenance, weather conditions, access restrictions, and resource limitations.

### **Upcoming Sample Trips**

Sample trips for the central plateau only, scheduled for collection in November 2015 (and not collected before the target sample month) are listed in Table 3.

### **WMA C Tank Farm**

WMA C Tank Farm samples for the first quarter of FY-2016 are scheduled to be collected in December 2015. WMA C Tank Farm monitoring wells are listed in Table 4.

**Data Access**

The sampling results are available in HEIS and can be accessed from the Environmental Dashboard Application which can be accessed from the HLAN at <https://ehs.chprc.rl.gov/eda/> or from the internet at <https://ehs.hanford.gov/eda/>.

**Table 1 Wells, Aquifer Tubes, and springs in the Central Plateau Successfully Sampled in October 2015**

200-BP	200-PO	200-UP	200-ZP
14-D	299-E24-16	299-W18-260	299-W10-1
299-E24-25	299-E25-26	299-W19-12	299-W10-24
299-E27-10	299-E25-32P	299-W19-41	299-W10-27
299-E27-11	299-E25-35		299-W10-28
299-E27-16	299-E25-48		299-W11-33Q
299-E27-18	299-E25-94		299-W14-18
299-E27-19	299-E26-13		299-W15-44
299-E27-8	699-22-35		299-W15-763
299-E27-9	699-23-34B		299-W15-765
299-E28-4	699-24-33		699-48-77C
299-E33-17	699-24-34A		699-48-77D
299-E33-268	699-24-34B		
299-E33-268	699-24-34D		
299-E33-268	699-24-34E		
299-E33-268	699-24-35		
299-E33-3	699-24-36		
299-E33-33	699-25-33A		
299-E33-37	699-25-34A		
299-E34-10	699-25-34D		
299-E34-12	699-25-34E		
299-E34-2	699-25-34F		
299-E34-8	699-26-33		
299-E34-9	699-26-33A		
699-45-42	699-26-34A		
699-49-55A	699-26-34B		
699-49-55B	699-26-35A		
699-52-55	699-26-35C		
699-70-68	699-26-38		
699-72-73	699-32-22A		
C6236	699-42-37		
C6237	699-43-45		
C6238	82-M		
	82-S		
	84-M		
	84-S		

**Table 2 Fiscal Year 2015 and 2016 Sample Trips in the Central Plateau awaiting at the end of October 2015**

Qtr Sched	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
FY 2015 Q2	200-PO	WELL	699-20-E12O	1/1/2015	Annual	2		Access Restricted, Review for Cancellation
		WELL	699-46-4	1/1/2015	Annual	2		Access Restricted, Review for Cancellation
	200-ZP	WELL	299-W14-18	2/1/2015	Quarterly	0	Late	Review for cancelation, Unsuccessful 2-10-2015, Collected 7/15/2015
FY 2015 Q4	200-BP	WELL	299-E33-267	9/1/2015	Annual	10		
		WELL	299-E33-267	9/2/2015	Annual	10		Special Study
		WELL	299-E33-267	9/3/2015	Annual	10		Special Study
		WELL	299-E33-267	9/8/2015	Annual	10		Special Study
		WELL	299-E33-267	9/14/2015	Annual	10		Special Study
		WELL	299-E33-267	9/28/2015	Annual	10		Special Study
		WELL	299-E33-268	9/8/2015	Annual	10		Special Study
		WELL	299-E33-268	9/14/2015	Annual	10		Special Study
		WELL	299-E33-268	9/21/2015	Annual	10		Special Study
		WELL	299-E33-268	9/28/2015	Annual	10		Special Study
		WELL	299-E33-31	9/1/2015	Quarterly	1		
		WELL	299-E33-31	9/2/2015	Quarterly	1		Special Study
		WELL	299-E33-31	9/3/2015	Quarterly	1		Special Study
		WELL	299-E33-31	9/8/2015	Quarterly	1		Special Study
		WELL	299-E33-31	9/14/2015	Quarterly	1		Special Study
		WELL	299-E33-31	9/28/2015	Quarterly	1		Special Study
	200-UP	WELL	299-W19-105	8/1/2015	Biannual	3		Maintenance Required
		WELL	299-W19-46	8/1/2015	Biannual	3		Maintenance Required
		WELL	299-W19-49	8/1/2015	Biannual	3		Maintenance Required
		WELL	699-36-61A	9/1/2015	Quarterly	1		Maintenance Required
200-ZP	WELL	299-W14-15	8/1/2015	Quarterly	0	Late	Maintenance Required, Review for Cancellation	
FY 2016 Q1	200-BP	WELL	299-E27-17	10/1/2015	Biannual	5		
		WELL	299-E33-205	10/1/2015	Biannual	5		Access Restricted
	200-PO	WELL	299-E25-28	10/1/2015	Biannual	5		
		WELL	499-S0-7	10/1/2015	Annual	11		
		WELL	499-S0-8	10/1/2015	Annual	11		
		WELL	499-S1-8J	10/1/2015	Annual	11		
		WELL	699-25-34B	10/1/2015	Biannual	5		Access Restricted
		WELL	699-2-6A	10/1/2015	Annual	11		Access Restricted
		WELL	699-2-7	10/1/2015	Annual	11		Access Restricted
		AQUIFER TUBE	84-D	10/1/2015	Annual	11		
		AQUIFER TUBE	85-D	10/1/2015	Annual	11		
AQUIFER TUBE	85-M	10/1/2015	Annual	11				

CHPRC-1505094  
Attachment 5

Qtr Sched	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		AQUIFER TUBE	85-S	10/1/2015	Annual	11		
		AQUIFER TUBE	86-D	10/1/2015	Annual	11		
		AQUIFER TUBE	86-M	10/1/2015	Annual	11		
		AQUIFER TUBE	86-S	10/1/2015	Annual	11		
		AQUIFER TUBE	C6353	10/1/2015	Annual	11		
		AQUIFER TUBE	C6356	10/1/2015	Annual	11		
		AQUIFER TUBE	C6359	10/1/2015	Annual	11		
		AQUIFER TUBE	C6362	10/1/2015	Annual	11		
		AQUIFER TUBE	C6383	10/1/2015	Annual	11		
		AQUIFER TUBE	C6384	10/1/2015	Annual	11		
	200-UP	WELL	299-E11-1	10/2/2015	Annual	11		Special Study
	200-UP	WELL	299-E20-1	10/2/2015	Annual	11		Special Study
	200-UP	WELL	299-E20-2	10/2/2015	Annual	11		Special Study
	200-UP	WELL	299-W19-42	10/1/2015	Biannual	5		
	200-UP	WELL	699-19-88	10/1/2015	Quarterly	2		
	200-ZP	WELL	699-49-100C	10/1/2015	Quarterly	2		

**Table 3 Groundwater Sampling Locations in the Central Plateau Scheduled to be sampled in November 2015**

200-BP	200-PO	200-UP	200-ZP
199-K-183	299-E25-34	299-W26-14	299-W10-26
199-K-31	299-E26-12	699-30-66	299-W14-13
299-E33-20			299-W14-14
299-E33-31			299-W14-15
299-E33-32			299-W14-19
299-E33-334			699-44-64
299-E33-335			
299-E33-337			
299-E33-338			
299-E33-339			
299-E33-344			
299-E33-361			
299-E33-38			
299-E33-41			
299-E33-42			
299-E33-44			
299-E33-47			
299-E33-48			
299-E33-49			

**Table 4. WMA C Quarterly Monitoring Wells**

SITE_NAME
299-E27-12
299-E27-13
299-E27-14
299-E27-15
299-E27-155
299-E27-21
299-E27-22
299-E27-23
299-E27-24
299-E27-25
299-E27-4
299-E27-7

**TRI-PARTY AGREEMENT**

Change Notice Number TPA-CN- 635	TPA CHANGE NOTICE FORM	Date: October 29, 2015
Document Number, Title, and Revision: DOE/RL-2010-33, Rev 0 Removal Action Work Plan for Central Plateau General Decommissioning Activities		Date Document Last Issued: April 2010
Originator: Brian J Dixon		Phone: 509-376-7053

**Description of Change:**

This change modifies DOE/RL-2010-33 Revision 0 by adding 19 structures to the building/structure list in Table 1-1. This change notice constitutes a request for concurrence from the Washington State Department of Ecology and the U.S. Environmental Protection Agency for such addition.

O. A. Farabee and C. J. Guzzetti/S. N. Schleif agree that the proposed change **DOE EPA/Ecology** modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

Revise Table 1-1 by adding the following facilities:

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)	Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
2025EA	200E	700	252W	200W	40
217A	200E	80	2713W	200W	80
211S	200W	180	2713WB	200W	20
216ZP1	200W	35	2716T	200W	20
216ZP1B	200W	25	2718S	200W	16
216ZP1C	200W	25	2724WB	200W	150
2120WA	200W	200	276S	200W	12,621
2120WB	200W	200	292T	200W	50
225W	200W	50	296S012	200W	5
2420W	200W	20			

See attached revision to Table 1-1. Insertions are identified by double underline. Additional changes were previously made to Table 1-1 as a result of TPA-CN-372, TPA-CN-421, TPA-CN-613, and TPA-CN-673 but are not shown in double underline. Pages 1-5, 1-8, and 1-9 are affected by this change notice.

**Justification and Impacts of Change:**

These facilities are being incorporated into the scope of the non-time critical removal action for General Hanford Site Decommissioning Activities (Action Memorandum, DOE/RL-2010-22) by adding them to Removal Action Work Plan (DOE/RL-2010-33). The facilities meet the criteria established in Sections 1 and 2.1 of the Action Memorandum and Section 1.2 of the Removal Action Work Plan:

- The structures are suitable for routine decommissioning and/or demolition methods;
- The structures are sufficiently similar to the facilities identified in the Action Memorandum; and
- The structures have not been addressed by another approved CERCLA decision document or RCRA closure plan.

Approvals:

	10/29/15	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE Project Manager	Date	
	10/29/15	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager	Date	
	11/11/15 <del>10/4/15</del>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	

DOE/RL-2010-33, REV. 0

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
MO280	600	740
MO292	600	740
MO315	600	50
MO667	600	20
<u>2025EA</u>	<u>200E</u>	<u>700</u>
2025EC7I	200E	10
207BA	200E	10
209EA	200E	410
2101HV	200E	1,200
2101M	200E	12,900
2103HV	200E	30
2105HV	200E	200
210A	200E	70
210E	200E	10
211A	200E	940
211B	200E	380
211BA	200E	80
211BA151	200E	10
211BB	200E	10
2125E	200E	100
214A	200E	80
<u>217A</u>	<u>200E</u>	<u>80</u>
217B	200E	40
218B	200E	10
219B	200E	10
221A	200E	70
221BA	200E	10
221BG	200E	10
2220E	200E	170
2230E	200E	120
2237E	200E	60
2258E	200E	10
225B-BA	200E	50
225BC	200E	80
225BD	200E	20
225BE	200E	260

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
225BG	200E	120
225EC	200E	10
2400E	200E	60
2402EC	200E	10
2402EG	200E	40
2403E	200E	90
2403EA	200E	20
2404E	200E	20
241A201	200E	230
241AN273	200E	20
241AN274	200E	10
241AN801	200E	10
241AP273	200E	20
241AP801	200E	10
241AW273	200E	20
241AW801	200E	10
241AZ156	200E	80
241AZ271	200E	90
241B701	200E	10
241C73	200E	10
241C90	200E	20
242A81	200E	50
242A-BA	200E	190
242AC	200E	60
242AL11	200E	100
242AL71	200E	10
243G1	200E	100
243G1A	200E	30
243G2	200E	90
243G3	200E	40
243G4	200E	50
243G6	200E	30
243G81	200E	10
243G82	200E	10
243G9	200E	20
244AR701	200E	20

DOE/RL-2010-33, REV. 0

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
MO840	200E	60
MO844	200E	60
MO850	200E	230
MO890	200E	10
MO919	200E	110
MO974	200E	40
MO979	200E	150
MO996	200E	110
MO997	200E	110
MO998	200E	20
TC272HV	200E	70
200CC-BA	200W	40
201W	200W	30
<b><u>211S</u></b>	<b><u>200W</u></b>	<b><u>180</u></b>
211T	200W	200
211T52	200W	10
212S	200W	70
216ZP1A	200W	30
<b><u>216ZP1</u></b>	<b><u>200W</u></b>	<b><u>35</u></b>
<b><u>216ZP1B</u></b>	<b><u>200W</u></b>	<b><u>25</u></b>
<b><u>216ZP1C</u></b>	<b><u>200W</u></b>	<b><u>25</u></b>
218W5-252	200W	10
218W5-252A	200W	10
<b><u>2120WA</u></b>	<b><u>200W</u></b>	<b><u>200</u></b>
<b><u>2120WB</u></b>	<b><u>200W</u></b>	<b><u>200</u></b>
2220W	200W	170
222SA	200W	380
222S-BA	200W	70
222SD	200W	90
222SF	200W	60
222SH	200W	60
222T	200W	1,200
<b><u>225W</u></b>	<b><u>200W</u></b>	<b><u>50</u></b>
2259W	200W	30
225WA	200W	20
225WB	200W	10

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
2262W	200W	50
2263W	200W	40
2265W	200W	30
2300W	200W	110
2304W	200W	60
2306W	200W	70
2307W	200W	70
2308W	200W	70
2309W	200W	290
2310W	200W	120
2314W	200W	40
2315W	200W	20
2318W	200W	80
234-5Z-BA	200W	150
2402W	200W	10
2402WB	200W	320
2402WC	200W	320
2402WD	200W	320
2402WE	200W	320
2402WF	200W	320
2402WG	200W	320
2402WH	200W	320
2402WI	200W	320
2402WJ	200W	320
2402WK	200W	320
2402WL	200W	320
241SX281	200W	30
241SX701	200W	40
241SY272	200W	20
241SY276	200W	10
241T701	200W	10
241TX701	200W	10
242T271	200W	10
242T601	200W	80
242TC	200W	10
<b><u>2420W</u></b>	<b><u>200W</u></b>	<b><u>20</u></b>

DOE/RL-2010-33, REV. 0

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
2506W1	200W	40
252S	200W	60
<u>252W</u>	<u>200W</u>	<u>40</u>
2620W	200W	330
267Z	200W	10
2701-ZC	200W	5
2701-ZE	200W	20
2704S	200W	650
2707SX	200W	110
2708S	200W	10
2710S	200W	30
2710W	200W	10
2711S	200W	10
2712T	200W	10
<u>2713W</u>	<u>200W</u>	<u>80</u>
<u>2713WB</u>	<u>200W</u>	<u>20</u>
2713WC	200W	140
2715S	200W	20
2715T	200W	50
2715WA	200W	190
2716S	200W	140
<u>2716T</u>	<u>200W</u>	<u>20</u>
<u>2718S</u>	<u>200W</u>	<u>16</u>
2719WB	200W	370
2722W	200W	110
2727W	200W	190
2727WA	200W	190
272S	200W	690
272WA	200W	1,240
272W-BA	200W	50
<u>2724WB</u>	<u>200W</u>	<u>150</u>
2734S	200W	40
273W	200W	480
2740W	200W	890
2754W	200W	370
275W	200W	320

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
<u>276S</u>	<u>200W</u>	<u>12,621</u>
277T	200W	100
278WA	200W	150
282W	200W	110
282WA	200W	30
282WB	200W	10
282WC	200W	220
282WD	200W	30
283W	200W	3,370
283WA	200W	230
283WB	200W	20
283W-BA	200W	50
283WC	200W	60
283WD	200W	30
283WE	200W	80
283WF	200W	30
284W	200W	4,110
284WB	200W	140
285W	200W	10
286W	200W	10
2901S	200W	210
2902W	200W	70
2904SA	200W	10
<u>292T</u>	<u>200W</u>	<u>50</u>
<u>296S012</u>	<u>200W</u>	<u>5</u>
HO-64-5928	200W	5
HS0001	200W	20
HS0002	200W	20
MO011	200W	130
MO014	200W	70
MO015	200W	50
MO016	200W	50
MO017	200W	50
MO027	200W	150
MO028	200W	220
MO031	200W	220

**TRI-PARTY AGREEMENT**

Change Notice Number TPA-CN- 673	TPA CHANGE NOTICE FORM	Date: 06/16/15
Document Number, Title, and Revision: DOE/RL-2010-33, Rev 0., <i>Removal Action Work Plan for Central Plateau Decommissioning Activities</i>		Date Document Last Issued: 04/09/10
Originator: W.E. Toebe		Phone: 372-2359

**Description of Change:**  
Add two structures (R13 Structure and the R17 Structure) to the scope of DOE/RL-2010-33 through inclusion on the list in Table 1-1.

\_\_\_\_\_ O.A. Farabee and \_\_\_\_\_ C.J. Guzzetti (EPA)  
DOE D.G. Singleton (Ecology) agree that the proposed change  
Lead Regulatory Agency  
modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

All deletions are indicated by ~~strikeout~~ and additional text to clarify the change has been done in double underline.

Page 1-10 affected by the changes is attached.

**Justification and Impacts of Change:**  
In accordance with the Action Memorandum (DOE/RL-2010-22, Rev 0, Section 1), DOE may add buildings/structures with similar characteristics, contaminants, and complexity, to the scope of the action by adding them to the list of buildings/structures in DOE/RL-2010-33, Table 1-1.

**R13 Structure:** The R13 Structure was used for access to and from the 221-T Canyon from the east side and to provide change room access to and from the 221-T Canyon. The structure also provided access for plant visitors to view activities within the 221-T Canyon. The structure consists primarily of 2x4 framing with sheetrock inside and shiplap wood outside.

**R17 Structure:** The R17 Structure was used for access to and from the 221-T Canyon from the east side and for removal of high-activity samples from the 221-T Canyon. The structure consists primarily of pre-engineered metal

The structures meet the criteria for addition to DOE/RL-2010-33 based on the following:

- The structures have not been used for radiological or chemical processing, but could have some incidental contamination based on proximity;
- The structures are suitable for routine decommissioning and/or demolition methods;
- The structures are not addressed by another approved CERCLA decision document or RCRA closure plan for which implementation would eliminate the release or threat of release of hazardous substances to the environment.

Approvals: <u>O.A. Farabee</u>	<u>6/23/15</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE Project Manager	Date	
<u>C.J. Guzzetti</u>	<u>6/23/15</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager	Date	
<u>D.G. Singleton</u>	<u>6/25/15</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
MO556	200W	100
MO563	200W	50
MO573	200W	20
MO710	200W	10
MO720	200W	1,180
MO721	200W	300
MO739	200W	40
MO743	200W	440
MO760	200W	120
MO837	200W	50
MO841	200W	100
MO847	200W	20
MO892	200W	110
MO906	200W	110

Table 1-1. Building / Structure List and Locations

Building/Structure Designation	Area	ERDF Approximate Waste Quantity (ton)
MO939	200W	50
MO956	200W	120
MO970	200W	270
MO971	200W	270
X8	200W	10
HO-64-5928	200W	5
2701-7E	200W	20
2701-ZC	200W	5
VB-OSS and VB-E	200W	5
Hanford Steam Lines	200E and 200W	1,200
<u>R13 Structure</u>	<u>200W</u>	<u>8</u>
<u>R17 Structure</u>	<u>200W</u>	<u>8</u>

### 1.3.2 Release or Threatened Release into the Environment of a Hazardous Substance, Pollutant, or Contaminant

Contaminant sources addressed by this RAWP include both radioactive and chemical hazardous substances.

The primary sources of hazardous substances potentially include, but are not limited to the following:

- Americium-241
- Cesium isotopes
- Cobalt-60
- Europium isotopes
- Strontium-90
- Plutonium isotopes
- Uranium isotopes
- Tritium (in exit signs)
- Asbestos-containing material (ACM)
- Cadmium
- Beryllium
- Lead paint and shielding
- Polychlorinated biphenyls (PCBs) (e.g., light ballasts and surface coatings)
- Mercury (typically found in electrical switches, gauges, thermometers and lighting)