200 AREA PROJECT MANAGERS MEETING (PMM) SEPTEMBER 17, 2020

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy under Contract DE-AC06-08RL14788

CH2MHILLPlateau Remediation Company

P.O. Box 1600 Richland, Washington 99352

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R. E. Fox CH2M HILL Plateau Remediation Company

Date Published October 2020

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APPROVED

By Julia Raymer at 3:01 pm, Oct 28, 2020

Release Approval

Date

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DISTRIBUTION PROJECT MANAGERS MEETING 200 AREA GROUNDWATER and SOURCE OPERABLE UNITS September 17, 2020

FINAL MEETING MINUTES

Electronic Distribution to:

Meeting Attendees Administrative Record Correspondence Control

200 AREA PROJECT MANAGERS MEETING Attachments List September 17, 2020

Minutes of the 200 Area Project Managers Meeting are attached. Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendees Sign In Sheets
Attachment 3	Signature Approval Page
Attachment 4	MSA - Annual Institutional Controls Assessment (2020)
Attachment 5	Central Plateau 2020 Annual Institutional Controls Assessment
Attachment 6	Milestones and O. U. Status, July - August Data
Attachment 7	Documents Entered into the AR and Approved Change Notices July - August Data
Attachment 8	Action Item List

200 AREA PROJECT MANAGERS MEETING AGENDA September 17, 2020

MSA - Annual Institutional Controls Assessment (2020) (Deanna Rohlfing)

Central Plateau 2020 Annual Institutional Controls Assessment (Randal Fox)

Milestones and O. U. Status- July - August 2020 Data

- o 200-PW-1/3/6 and 200-CW-5
- o U Plant Canyon
- Canyon Facilities
- o 200-CB-1 (B Plant)
- o 200-CP-1 (PUREX)
- o 200-CR-1 (REDOX)
- Waste Site Removal
- Deep Vadose Zone
- o 200-EA-1
- o 200-IS-1
- o 200-SW-2
- o 200-SW-1
- 200-OA-1, 200-CW-1, 200-CW-3
- o 200-BC-1 and 200-WA-1
- o 200-BP-5 and 200-PO-1
- o 200-UP-1
- o 200-ZP-1
- o 200 Area Groundwater/200 West P&T Facility
- o 200 Area RCRA TSD Closures
- Summary of Hanford Sampling Program
- Milestone Status

Documents for the Administrative Record and Approved TPA Change Notices

Action Items

Closing Comments (all)

- o Sign concurrence to "Groundwater Summary by O.U." and "Action Item List" if applicable
- EPA and ECY are reminding DOE that project documents are to be sent to the Project Managers.

200 Area Project Managers Status Meeting September 17, 2020 Joined via Microsoft Teams

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Alicia Boyd	DOE		372-7934
Ben Cowin	MSA		372-0116
Ben Vannah	DOE		376-9623
Bill Faught	CHPRC		376-3139
Bob Cathel	CHPRC		376-1513
Brian Stetter	DOE		376-3535
Brigitte Weese	DOE		372-7936
Craig Cameron	EPA		376-8665
Deanna Rohlfing	MSA		376-3313
Deborah Singleton	CHPRC		373-7689
Dib Goswami	DOE		372-7902
Doug Hildebrand	DOE		373-9626
Ellwood Glossbrenner	DOE		376-5828
Garrett Day	ECY		372-7883
Greg Berlin	MSA		373-7665
Jack Bell			
Jason Hulstrom	CHPRC		373-9575
Jill Thomson	CHPRC		372-0755
Jim Hanson	DOE		373-9068
Jim St Germaine	CHPRC		376-8068
Joe Axtell	DOE		373-6687
John Temple	ECY		372-7929
John Temple	DOE		372-7929
Johns Sands	DOE		373-4300
Joy Shoemake	MSA		376-3953
Julie Johanson	CHPRC		373-6031
Karen Waters-Husted	CHPRC		376-4650
Kate Amrhein	DOE		376-9391
Kathy Higgins	DOE		376-3658
Kelly Ebert	DOE		376-7756
Kelly Elsethagen	DOE		372-7923
Kelly Whitley	CHPRC		373-4929

200 Area Project Managers Status Meeting September 17, 2020 Joined via Microsoft Teams

Kim Welsch	ECY	372-7882
Laura O'Mara	CHPRC	373-9763
Len Habel	CHPRC	376-6592
Lynne Hood	EPA	376-8631
Marissa Merker	NEZPERCE	
Mark French	DOE	373-9863
Mike Cline	DOE	376-6070
Mostafa Kamal	DOE	376-0289
Naomi Jaschke	DOE	376-5594
Randal Fox	CHPRC	373-6024
Roger Quintero	DOE	373-0421
Scott Davis	MSA	376-8757
Shannan Hardziej	DOH	9460703
Shelley Cimon	ODOE	541-240-0161
Stephanie Brasher	MSA	373-6230
Steve Balone	DOE	376-0236
Theresa Bergman	CHPRC	376-1669
Tom Bratvold	CHPRC	373-2360

200 Area Project Managers Meeting Meeting Minutes Approval September 17, 2020

APPROVAL:	Michael W. Cl		signed by Michael W. Cline 20.09.24 12:41:11 -07'00' DATE:
•	200 Area Project Manage	r, DOE/RL	
APPROVAL:	Mark S. French Digitally signate: 2020.	jned by Mark S. French 10.15 11:34:13 -07'00'	DATE:
	200 Area Project Manager	, DOE/RL	
APPROVAL:	CRAIG CAM	ERON Digitally s	igned by CRAIG CAMERON 0.10.14 15:40:45 -07'00' DATE:
	200 Area Project Manage	r, EPA	
APPROVAL:	Hylaself	Digitally signed by Welsch, Kim (ECY) Date: 2020.10.15 09:50:08 -07'00'	DATE:
	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 these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.



MSA - ANNUAL INSTITUTIONAL CONTROLS ASSESSMENT (2020)





Background

Institutional Controls

- Defined in CERCLA and RCRA decision documents
 - Consolidated in Sitewide Institutional Controls Plan For Hanford CERCLA Response Actions and RCRA Corrective Actions, DOE/RL-2001-41, Rev. 9 (IC Plan)
 - Rev. 9 published in early 2019 to incorporate 100-D/H ROD
 - IC Plan requires annual assessment of ICs

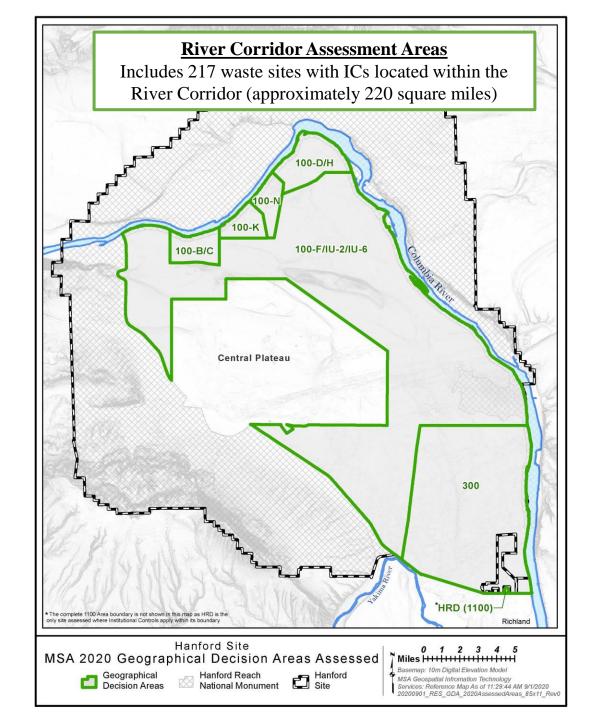


FY 2020 Assessment in a Deep Zone IC Boundary within the 100F Reactor Area.

MSA 2020 Annual Assessment

- 217 waste sites assessed for compliance with IC requirements using graded approach
 - Systematic field walk-downs, reviews of aerial imagery, and vehicle surveys (depending on the size of the site and the type of topography)
- Reviewed for applicable, specific IC requirements listed in decision documents
- MSA publishes an Annual Sitewide IC Assessment Report each fall







Institutional Control Categories & Types

Access Controls

- Warning Notices (i.e., signs)
- Entry Restrictions
- Fencing

Land-Use Management

- Land-use and real property controls
- Site Evaluations and Site Excavation Permits
- Enhanced Recharge restrictions
- Irrigation Control



Warning signs in Spanish and English along Columbia River near the 300 Area.





Access Controls – 300 Area Management Assessment

- Continuous improvement of access control IC:
 - Reduce complacency and footprint of outdated and unnecessary signage around 300 Area Perimeter Fence
 - Completed assessment of 143 signs around the fence perimeter
 - o 30 different sign types:
 - Notice to Visitors, No Trespassing,
 Prohibited Articles, Notice to
 Visitors, Radiologically
 Controlled Areas, Keep Out, etc.



Signage assessed around the 300 Area Perimeter Fence.

Decisions Made for the 143 Signs

- 81 = No Changes (57%)
- 52 = Removed (36%)
- 10 = Replaced (7%)





Access Controls - Warning Notices (cont'd)

- Hazardous Area warning signs required by decision documents are in place (<u>5</u> repaired/replaced in 2020)
- Approximately <u>100</u> "No Trespassing" signs along road perimeters were found to be damaged or illegible due to general weathering or fire
 - Signs fabricated, installation pending

Access Controls - Entry Restrictions

- Active badging program and barricades are in place to control unauthorized entry
- Damaged fences were observed in <u>7</u> locations
 - o Repairs have been completed in FY 2020





Sign near east entrance of the 100-D area repaired this fiscal year.





Land-Use Management

- No changes in land-use designations (e.g., industrial use) occurred in FY 2020 as confirmed by Land Management SMEs.
- LTS reviewed <u>24</u> Site Evaluations in FY 2020 to ensure land-use ICs are maintained
- LTS approval is mandatory on Site Excavation Permits:
 - >146 excavation permit applications were evaluated in FY 2020 for IC compliance
- No substantial disturbances or natural subsidence/erosion found on waste sites with ICs



Site assessed in the 300 Area limited to land-use designation for industrial use only. No non-industrial uses were observed during this year's assessments.





Land-Use Management Cont'd

- MSA assessed <u>36</u> waste sites in the 300 Area Industrial Complex with the enhanced recharge IC:
 - Maintain and look for ways to improve drainage systems and barriers in place (e.g., asphalt barriers) to support the enhanced recharge IC
 - Repaired asphalt around 325 Building to control stormwater runoff away from waste sites
 - Roads at 324 Building are regularly assessed, but will not be repaired due to ongoing D&D activities.
 - LTS facilitates regular 300 Area Hanford Contractor Interface meetings with Interface Management



Western and northern portion of the repaved roads adjacent to the 325 Building.

- LTS works with 300 Area Hanford contractors to minimize impact of discharges from drinking water pipeline flushing / fire-hydrant tests
 - Revised MSA's and CHPRC Planned Water Discharge Review
 Forms to include LTS as reviewer





Groundwater-Use Management

 Wells to be drilled at Hanford are reviewed through the Site Excavation Permit Application process

Barriers – Engineered Controls

Controls are in place to maintain the integrity of cap at the Horn Rapids Landfill

Information Controls – Notifications

• <u>9</u> reportable trespassing incidents on Hanford (October 2019 – August 2020)

All ICs in areas managed by LTS were observed to be in-place in 2020





Mule Deer Observed Near 100-D



Red-tailed Hawk Observed in 100-IU-2



Bald Eagle Observed Near 100-N



Bull Elk Observed Near 100-H







200 Area Project Managers Meeting

September 17, 2020





Central Plateau Institutional Controls Assessment

Institutional Controls are:

- Specified in CERCLA Decision documents and in RCRA Closure/Corrective Action documents
- Consolidated in DOE/RL-2001-41

Annual assessment requirement is contained within DOE/RL-2001-41.





Central Plateau Records of Decision

- 200-ZP-1 Groundwater Operable Unit ROD
- 200-UP-1 Groundwater Operable Unit Interim ROD
- 221-U Facility (Canyon Disposition Initiative) ROD
- 200-CW-5 and 200-PW-1/3/6 Source Operable Unit ROD
- 200-DL-1, Environmental Restoration Disposal Facility ROD
- 100/200 Areas Remaining Sites (200 North Area)
 ROD





- Entry Restrictions Example: Active badging and barricades
- Warning Notices Example: Signage as specified in decision documents
- Groundwater-Use Management Example: No unauthorized wells
- Land-Use Management Example: Excavation permits, site evaluations





Institutional Controls Assessment Results

- Institutional controls were in place through out FY 2020 for the Central Plateau operable units.
- There were no failures of institutional controls during the fiscal year.
- These controls are planned to be continued through FY 2021 on the Central Plateau.





Beloit and 23rd Street







Camden and 23rd Street







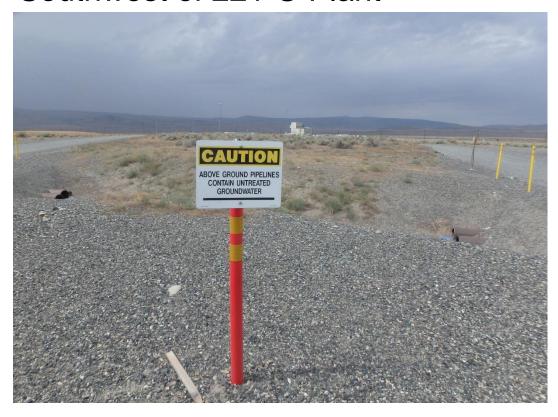
East of 200 West P&T







Southwest of 221-U Plant







Milestones and O.U. Status July - August 2020 Data **September 17, 2020**

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

Limited funding is provided to support replanning in FY2020.

- Request and obtain project funding (FY16-18).
- CD-0, Approve mission need (FY18).
- CD-0 to CD-1, Approve alternative selection and cost range (FY18-20).
- A number of items are listed in the PW 1/3/6 RD/RA Work Plan for FY16-19. Would DOE confirm in the meeting minutes if any of these activities have been started and if any funds have been spent to date on these items?
- Please note that EPA has not agreed to any delays in this schedule and expects the RD/RA WP schedule to be followed since it is an enforceable part of the remedial action work plan. Any proposed changes to the schedule need to be discussed in a timely manner.
- Monthly meetings are ongoing with EPA to strategize the project, most recently on August 5, 2020.

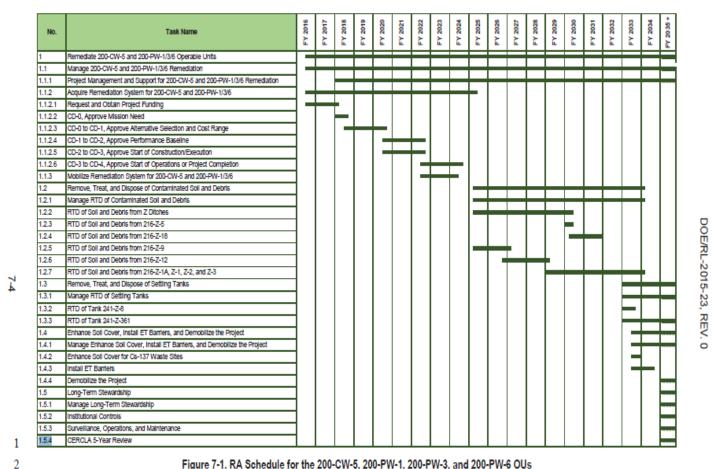


Figure 7-1. RA Schedule for the 200-CW-5, 200-PW-1, 200-PW-3, and 200-PW-6 OUs

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

<u>U Plant Canyon</u> *EPA Lead* (*RL* − *Robert Long*, *CHPRC* − *TBD*) ○ Nothing to report.

Regulatory Agency Comments: None

<u>Canyon Facilities</u> EPA/Ecology Lead (RL – Robert Long, CHPRC –Bob Cathel)

- B Plant: The Engineering Evaluation/Cost Analysis Revision 0 public review period has been extended 60 days to October 14, 2020. Action Memorandum (AM) is in internal review.
- REDOX: Draft Revision 1 of the Removal Action Work Plan (RAWP), Sampling and Analysis Plan (SAP) and Air Monitoring Plan regulator comments are being dispositioned.
- PUREX Complex: Hazard Abatement Including White Powder Within the 202A Building RAWP Rev 0 is being prepared for transmittal to Ecology. Agreement to extend completion of cleanup to April 2021.
- PUREX: AM Revision 0 is being prepared for transmittal to Ecology. RAWP Draft A being prepared for transmittal to Ecology for review. SAP Decisional Draft is in internal review.
- PUREX Tier 2 Buildings/Facilities: SAP Revision 0 transmitted to Ecology and EPA August 12, 2020 (20-PFD-0044).
- 224T: RAWP and SAP Draft A transmitted to EPA for review (20-PFD-0040).

Regulatory Agency Comments: Ecology sent DOE an email on 6/17 stating each RCR comment has been closed. We are currently waiting for DOE to provide us the signed document.

200-CB-1 (**B Plant**) Ecology Lead (RL- Mike Cline, CHPRC –)

Not funded.

M-085-70: Submit to Ecology a Remedial Investigation/Feasibility Study Work Plan for 200-CB-1. Due date 09/30/2019.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

Regulatory Agency Comments: None

200-CP-1 (**PUREX**) Ecology Lead (RL- Naomi Jaschke, CHPRC – Marty Doornbos)

• Completed preparation of the Draft A, Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 on September 11, 2020. Initiated document clearance for transmittal to Ecology by the end of the month.

M-085-80: Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology. Due date 09/30/2020.

• Status: On Schedule.

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

200-CR-1 (**REDOX**) EPA Lead (RL- Mike Cline, CHPRC –)

• Not funded.

M-085-90: Submit a Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA. Due date 09/30/2021.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HH]FACO Appendix D milestones.

Regulatory Agency Comments: None

Waste Site Removal Ecology Lead (RL- Bobby Long/P. Ensign, CHPRC – Deborah Singleton, Cory McCoy)

- Six CS/NFA sites have been evaluated for ecological and cultural impacts and controls identified. Sampling activities fell below the IPL line for FY20 and no CS/NFA work is scheduled for this year.
- Change Control Form M 16-18-04: The dispute was extended at the PM level 6/30/20 to 09/30/2020.
- CCF M-16-18-01: The dispute was extended at the PM level 6/30/20 to 09/30/2020.

M-016-250: Submit to Ecology for approval a three-year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions per Action Memoranda, March 31, 2016, and annually thereafter.

M-016-250E: Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions. Due 09/30/2020

• Status: On Schedule

M-016-255: DOE shall complete the removal of all waste sites for FY2018 as identified in TPA Change Package M-16-17-01. Due 09/30/2018

• Status: Dispute resolution

M-016-256: DOE shall complete the removal of all waste sites for FY2019 as identified in TPA Change Package M-16-17-01. Due 09/30/2019

• Status: Dispute resolution

Regulatory Agency Comments: None

200-DV-1- *Ecology Lead (RL –Kate Amrhein, CHPRC – Mark Byrnes)*

- Ecology signed the TPA-CN-0888 August 19, 2020 which brought the Corrective Measures Study and Feasibility Study Report and Proposed Plan/Proposed Corrective Action (DOE/RL-2011-104) work plan schedule up to date and potentially extending the milestone date out to FY2027. RL and Ecology agreed the correct milestone date for the submittal of the DRAFT A RI/FS/PP and RFI/CMS/PCAD will be defined in upcoming milestone negotiations as stated in the current work plan.
- The 200-DV-1 Draft A Sampling and Analysis Plan for Perched Water Extraction and Monitoring Wells (DOE/RL-2019-42) supports the initial installation and construction of eight extraction and four monitoring wells, which supports a phased implementation approach for increasing the extraction in the perched water zone to recover more mass of uranium and dewater the perched water zone. A meeting was held August 19, 2020 to review proposed responses to Ecology and EPA comments. EPA and Ecology agreed on the proposed changes and the document is being finalized for issuance. Two extraction wells are scheduled to be begin drilling the week of September 7, 2020 (TPA-CN-0878 and -0879).
- EPA and Ecology approved the scope July 1, 2020 for the 200-DV-1 216-S-13 waste site supplemental characterization work activities (TPA-CN-0893). Characterization activities are scheduled to begin in FY2021.
- Additional PCB/PCB Congener sampling will begin the week of September 16, 2020 in boreholes D0208 and D0209 (approved TPA-CN-0884).
- Pumping resumed from the perched water wells YE-28 and YE-30. YE-29 has a failed pump which is scheduled to be replaced the week of September 7, 2020.

Milestones and O.U. Status July - August 2020 Data September 17, 2020

M-015-110B: Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology. Due date 09/30/2023.

Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal
negotiations and establish revisions to the HHFACO Appendix D milestones. Potential due date 9/30/2027. RL
and Ecology agreed the correct milestone date for the submittal of the DRAFT A RI/FS/PP and
RFI/CMS/PCAD will be defined in upcoming milestone negotiations as stated in the current work plan (TPA-CN-0888).

Perched Water Volume Extracted / Mass Removed At 200 West P&T

Year	Duration	Perched Water Extracted (gal)	Uranium Removed (kg)	Technetium-99 Removed (g [Ci])	Nitrate Removed (kg as NO3)
2012	08/2011 - 09/2012	65,167	12	0.37 (6.3×10-3)	131
2013	10/2012 - 09/2013	92,303	13.1	0.74 (1.3×10-2)	202.6
2014	10/2013 - 09/2014	75,620	24.1	0.59 (1.0×10-2)	137.2
2015	10/2014 - 09/2015	68,065	19.3	0.41 (7.0×10-3)	112.2
2016	10/2015 - 12/2016	59,289	11.2	0.36 (6.1×10-3)	195
2017	01/2017 - 12/2017	334,000	77.5	2.67 (4.5×10-2)	1,970
2018	01/2018 - 12/2018	380,000	74	2.87 (4.9×10-2)	1,606
2019	01/2019 - 12/2019	328,000	63.3	2.72 (4.6x10-2)	1,280
2020	01/2020-08/2020	98,000	13.7	0.84 (1.4x10-2)	407.1
Totals	08/2011 - 08/2020	1,500,444	307.2	11.5 (1.96x10-1)	6,041

Regulatory Agency Comments: None

200-EA-1- Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)

- RASCAL
 - The team that includes DOE, EPA and Ecology completed work on the development of a path forward for accelerating cleanup decisions for the Central Plateau Waste Sites. The RASCAL team completed the binning of 200-EA-1 and 200-WA-1 waste sites and selection of representative waste sites on July 28, 2020. This closed the remaining IAMIT actions for the RASCAL team based on the IAMIT Determination 2020-006 RASCAL Recommendations for Expediting Remedial Cleanup on the Hanford Central Plateau. The RASCAL team approved the draft RASCAL storyboards for the 200-EA-1 and 200-WA-1 work plans to incorporate the RASCAL approach on August 17, 2020.
 - A TPA Change Control Form C-20-02 was signed on 8/11/2020 to create the new 200-IA-1 OU and reassigned 101 waste sites from 200-EA-1 and 200-WA-1 to the 200-IA-1 OU

M-015-92B: Submit RFI/CMS & RI/FS Report and Proposed Corrective Action Decision/Proposed Plan for the 200-EA-1 OU (Central Plateau 200 East Inner Area) to Ecology. Due date 11/30/2022.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HH]FACO Appendix D milestones.

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

200-IS-1 - Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)

• Not funded in FY20.

M-015-112: Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS work plan to Ecology, including a schedule of completion dates for major tasks and deliverables. Due date November 30, 2020.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

Regulatory Agency Comments: None

200-SW-2 *Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)*

• Not funded in FY20.

M-015-93C: Initiate characterization fieldwork for the 200-SW-2 Operable Unit landfills in accordance with the schedule in the approved RI/FS/RFI/CMS Work Plan. Due date 09/30/2018.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

Regulatory Agency Comments: None

200-SW-1/NRDWL Ecology Lead (RL- Doug Hildebrand/Mostafa Kamal, CHPRC- Dave St John)

- No additional progress. Continued RL/Ecology meetings to discuss, and seek concurrence on the resolution of minor Hold/Needs deficiencies and issues that were identified in September 2018 with additional guidance in August 2019. Concurrence has been reached on eleven minor Hold/Needs deficiencies and resolution of the remaining deficiencies is continuing.
- No additional progress. Continue to support discussions regarding the development of a planning approach and processes for the development of the design and design related engineering documentation for the NRDWL/SWL CAP.

Regulatory Agency Comments: None

200-IA-1 EPA and Ecology Joint Lead (RL- Doug Hildebrand, CHPRC – Dave St John)

TPA Change Control Form C-20-02 was approved on August 11, 2020. This change control form created a
new 200-IA-1 OU and reassigned 101 waste sites from the 200-EA-1 and 200-WA-1 OUs to this new 200-IA1 OU.

Regulatory Agency Comments: None

200-OA-1 (Outer Area), 200-CW-1, and 200-CW-3 EPA Lead (RL- Jim Hanson, CHPRC – Dave St John)

• Not funded in FY20.

M-015-38B Submit FS/PP for 200-CW-1, 200-CW-3 and 200-OA-1 OUs to EPA. Due date 07/31/2023.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

200-BC-1 and 200-WA-1 *EPA Lead (RL- Joe Axtell, CHPRC – Dave St John)*

- RASCAL
 - The team that includes DOE, EPA and Ecology completed work on the development of a path forward for accelerating cleanup decisions for the Central Plateau Waste Sites. The RASCAL team completed the binning of 200-EA-1 and 200-WA-1 waste sites and selection of representative waste sites on July 28, 2020. This closed the remaining IAMIT actions for the RASCAL team based on the IAMIT Determination 2020-006 RASCAL Recommendations for Expediting Remedial Cleanup on the Hanford Central Plateau. The RASCAL team approved the draft RASCAL storyboards for the 200-EA-1 and 200-WA-1 work plans to incorporate the RASCAL approach on August 17, 2020.
 - o A TPA Change Control Form C-20-02 was signed on 8/11/2020 which created the new 200-IA-1 OU and reassigned 101 waste sites from the 200-EA-1 and 200-WA-1 OUsto the 200-IA-1 OU.

M-015-98: Complete remedial investigation of U Plant related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan. Due date 06/30/2019.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

M-015-99: Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the 200-WA-1 and 200-BC-1 RI/FS Work Plan. Due date 12/31/2019.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

M-015-84 Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan. Due date 12/31/2021.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

M-015-91B Submit FS/PP for the 200-BC-1/200-WA-1 OUs to EPA. Due date 07/31/2023.

• Status: In Abeyance. Agreement in Principle signed by Parties on August 25, 2020 to enter into formal negotiations and establish revisions to the HHFACO Appendix D milestones.

Regulatory Agency Comments: None

200-BP-5 and 200-PO-1 Ecology Lead (RL – Naomi Jaschke, CHPRC – Chris Cearlock)

- The public review of the Proposed Plan for the Interim Action 200-BP-5/PO-1 Groundwater Operable Units began on May 4, 2020, and ended on July 8, 2020. The drafting of the responsiveness summary and interim action ROD continues.
- Met with RL, EPA, and Ecology on August 18, 2020, to discuss the draft interim action ROD and modifications to the ARARs table.
- A total of over 31 million gallons of groundwater have been pumped from the BP-5 extraction wells in calendar year 2020 as part of the removal action. All BP-5 extraction wells were taken offline on March 23, 2020 due to the COVID-19 restrictions and were brought back online on July 15, 2020.

Milestones and O.U. Status July - August 2020 Data September 17, 2020

Groundwater Extracte	d (millions o	f gallons)	Total Groundwater	Total Groundwater Extracted - September 2015		
Well	July 2020	August 2020	Extracted in 2020 (millions of gallons)	through August 2020 (millions of gallons)		
299-E33-268 (YE27)	0	0	1.9	58.9		
299-E33-360 (YE31)	2.7	4.9	18.8	228.6		
299-E33-361 (YE-32)	1.8	2.7	10.7	40.7		
Total	4.4	7.6	31.4	328.2		

^{*}Data through August 31, 2020. Numbers shown are rounded up estimates; actual numbers are reported in the annual P&T report.

Regulatory Agency Comments: None

200-UP-1 EPA Lead (*RL – Kate Amrhein, CHPRC –Chris Cearlock*)

- Transmitted the approved Revision 1, 200-UP-1 Groundwater Operable Unit Remedial Design/Remedial Action Work Plan (DOE/RL-2013-07) and the Performance Monitoring Plan for the 200-UP-1 Groundwater Operable Unit Remedial Action to RL on August 26, 2020.
- Met with RL and EPA on August 24, 2020, to update EPA on the status of the technical impracticably (TI) waiver document and latest modeling results.

Met with RL and EPA on August 24, 2020, to update EPA on the status of the technical impracticably (TI) waiver document and latest modeling results.

Regulatory Agency Comments: None

200-ZP-1 EPA Lead (*RL – Kate Amrhein, CHPRC – Mark Byrnes*)

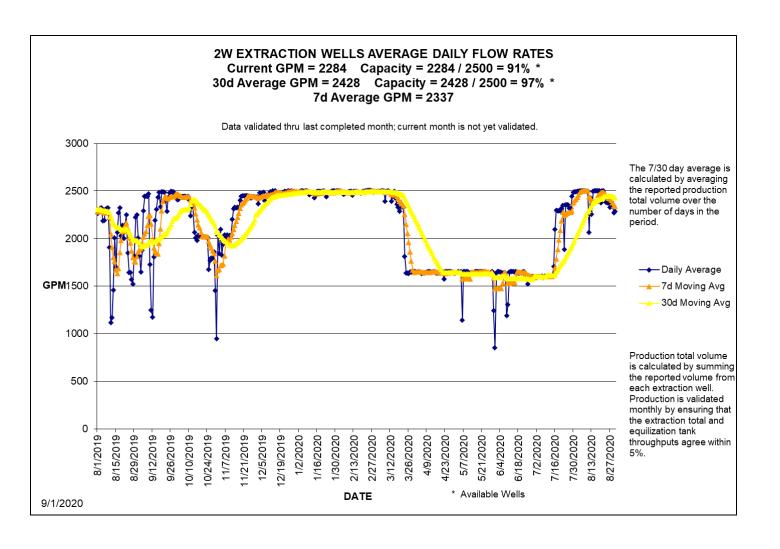
- Continued implementing the Optimization Study Plan (DOE/RL-2019-38, Rev. 0) to collect the data needed to
 evaluate remedy performance enhancements and remedy configuration changes associated with P&T
 operations.
- Drilling activities resumed July 22, 2020 for the 5 extraction wells supporting the 200-ZP-1 Optimization Study Plan. Drilling started for three wells 299-W12-5, 299-W14-27, and 299-W14-33 while drilling resumed for 299-W11-103 and 299-W11-104.
- Drilling activities began on July 13, 2020 for Ringold A monitoring well 699-46-70 and on August 25, 2020 for 699-45-67C.
- The 200-ZP-1 Operable Unit Optimization Study Sampling and Analysis Plan (DOE/RL-2019-76 Draft A) is being prepared to issue the Draft A report to EPA for their review and comment. This SAP presents groundwater monitoring requirements to support a focused optimization study designed to evaluate changes to the current pump and treat configuration for the 200-ZP-1 OU to increase carbon tetrachloride treatment capacity and mass removal.
- Pumping was started July 16, 2020 at the 200 West P&T and flows were ramped up to 2,500 gpm.

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

200 Area Groundwater/200 West P&T Facility Treatment and Mass Removed

Month	Gallons Treated	Nitrate-N (kg)	NO3 (kg)	Carbon Tetrachloride	Chromium (kg)	Uranium (kg)	Ci of Tc-99
	(millions)			(kg)			
July	87.94	0.0	0.0	163	0.01	3.06	0.10
August	108.46	0.0	0.0	187	1.01	5.73	0.15



Milestones and O.U. Status July - August 2020 Data September 17, 2020

M-024 Well Installation Ecology Lead (RL-Kathy Higgins, CHPRC-Dave Capelle)

M-024-58N: Initiate Discussion of Well Commitments

• Status: Due 06/01/2021. On Schedule

M-024-71-T01: Conclude Discussions of Well Commitments Initiated Under M-024-58.

• Status: Due 08/01/2020, Completed 07/23/2020.

M-024-71: Complete the Construction of All Wells Listed for CY20 and Before.

• Status: Due 12/31/2020, On schedule.

Regulatory Agency Comments: None

200 Area RCRA TSD Closures Ecology Lead (RL – Mostafa Kamal, CHPRC – Dave St John)

- 216-A-29, 216-B-3, 216-S-10 and 216-B-63 are now complete and sent to Ecology for frozen status.
- o All four of the coordinated closure plan are waiting certification and submittal.

M037-20: Submit CC Proposal for 4 Specified TSDs if Requesting Use of Alternative Closure Requirements

• Status: Due concurrent with M-015-92B

M-037-22: Submit CC Proposal for 2 Specified TSDs if Requesting Use of Alternative Closure Requirements

• Status: Due concurrent with M-015-38B

M-037-25: Submit CCP for Inactive SST Components Outside WMAs if Requesting Alternative Closure Requirements

• Status: Due concurrent with M-015-92C

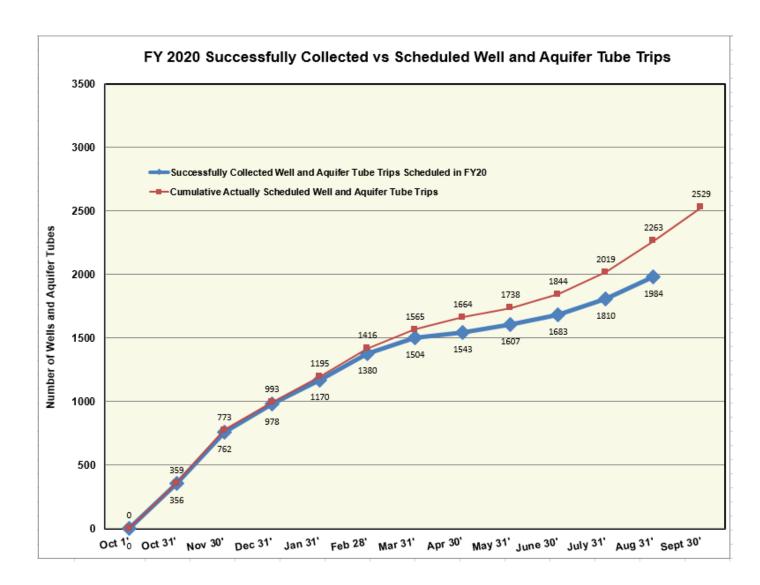
M-037-26: Submit CCP for Green Island TSDs in LLBG if Requesting Use of Alternative Closure Requirements

• Status: Due concurrent with M-015-93B

Regulatory Agency Comments: None

Milestones and O.U. Status July - August 2020 Data September 17, 2020

Hanford Annual Groundwater Sampling Program Performance Results for Samples Completed versus Sample Scheduled



Milestones and O.U. Status July - August 2020 Data September 17, 2020

Central Plateau Milestones

MS#	Title	Due Date
TVION	Fiscal Year 2018	Due Dute
M-015-93C	Initiate characterization field work for the 200-SW-2 OU	9/30/2018 In Abeyance
M-016-255	DOE shall complete the removal of all waste sites for FY2018 as identified in TPA Change Package M-16-17-01.	9/30/2018 Dispute Resolution
	Fiscal Year 2019	
M-016-256	DOE shall complete the removal of all waste sites for FY2019 as identified in TPA Change Package M-16-17-01.	9/30/2019 Dispute Resolution
M-015-98	Complete remedial investigation of U Plant related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan	6/30/2019 In Abeyance
M-085-70	Submit RI/FS Work Plan for 200-CB-1	9/30/2019 In Abeyance
	Fiscal Year 2020	
M-015-99	Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the 200-WA-1 and 200-BC-1 RI/FS Work Plan.	12/31/2019 In Abeyance
M-016-250E	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	9/30/2020 On schedule
M-024-58M	Initiate Discussions of Well Commitments	6/1/2020 Completed 5/27/2020
M-024-71-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/2020 Completed 07/23/2020
M-085-72	Submit RAWP to implement the approved Action Memorandum for 224-B	9/30/2020 Completed 09/19/2019
M-085-80	Submit RI/FS Work Plan for 200-CP-1	9/30/2020 On Schedule
M-085-100	Submit a RAWP to implement the approved Action Memorandum for 224-T	9/30/2020 Completed 8/13/2020 (Ltr. 20-PFD-0040)
	Fiscal Year 2021	
M-015-112	Submit RFI/CMS & RI/FS Work Plan for 200-IS-1 Work Plan to Ecology	11/30/2020 In Abeyance
M-024-71	Complete the Construction of All Wells Listed for CY20 and Before	12/31/20 On Schedule
M-016-250E	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	03/31/2021 On Schedule
M-024-58N	Initiate Discussions of Well Commitments	06/01/2021 On Schedule

MS#	Title	Due Date
M-024-72-T01	Conclude discussions of well commitments initiated under M-024-58 by August 1, 2021.	08/01/2021 On Schedule
M-085-90	Submit RI/FS Work Plan for 200-CR-1	9/30/2021 In Abeyance
	Fiscal Year 2022	
M-015-84	Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan	12/31/2021 In Abeyance
M-024-72	Complete the Construction of All Wells Listed for CY21 and Before	12/31/2021 On Schedule
M-016-250G	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	03/31/2022 On Schedule
M-026-07D	Evaluation of Tritium Treatment Technology to EPA & Ecology	3/31/2022 On Schedule
M-024-58O	Initiate Discussions of Well Commitments	06/01/2022 On Schedule
M-024-73-T01	Conclude discussions of well commitments initiated under M-024-58 by August 1, 2022.	08/01/2022 On Schedule
	Fiscal Year 2023	
M-015-92B	Submit RFI/CMS, RI/FS Study report and Proposed CAD/PP for 200-EA-1	11/30/2022 In Abeyance
M-037-20	Submit Coordinated Closure Proposal for the 4 Specified TSDs if Requesting Use of Alternative Closure Requirements	Concurrent with M-015-92B
M-024-73	Complete the Construction of All Wells Listed for CY22 and Before	12/31/2022 On Schedule
M-015-93B	Submit RFI/CMS & RI/FS Study Report and proposed CAD/PP for 200-SW-2 OU	1/31/2023 In Abeyance
M-037-26	Submit Coordinated Closure Proposal for Green Island TSDs in LLBG if Requesting Use of Alternative Closure Requirements	Concurrent with M-015-93B
M-015-92C	Submit RFI/CMS & RI/FS Study report and proposed CAD/PP for the 200-IS-1 OU to Ecology	3/31/2023 At Risk
M-37-25	Submit Coordinated Closure Proposal for Inactive SST Components Outside WMAs if Requesting Alternative Closure Requirements	Concurrent with M-015-92C
M-015-38B	Submit FS/PP for 200-CW-1, 200-CW-3 and 200-OA-1 OUs	7/31/2023 In Abeyance
M-037-22	Submit Coordinated Closure Proposal for the 2 Specified TSDs if Requesting Use of Alternative Closure Requirements	Concurrent with M-015-38B
M-015-91B	Submit FS/PP for the 200-BC-1 and 200-WA-1 OUs to EPA	7/31/2023 In Abeyance
M-015-110B	Submit CMS & FS and Proposed CAD/PP for 200-DV-1 OU	9/30/2023 In Abeyance

MS#	Title	Due Date
	Fiscal Year 2024	
M-016-200A	Complete U Plant canyon demolition	9/30/2024
		In Abeyance
	Fiscal Years 2025-2027	
M-085-76	Initiate response actions for the B Plant geographic area	9/30/2025
		On Schedule
M-085-84	Initiate response actions for the PUREX geographic work	9/30/2025
		On Schedule
M-085-01	Submit change package to establish a date for major milestone M-085-00	6/30/2026
		On Schedule
M-015-00	Complete the RI/FS (or RFI/CMS) Process for All Non-Tank Farm	6/30/2026
	Operable Units	In Abeyance
M-026-07E	Evaluation of Tritium Treatment Technology to EPA & Ecology	3/31/2027
		On Schedule
M-016-200B	Complete U Plant barrier construction	9/30/2027
		In Abeyance

Number	Title	Referencing Document
RCRA-CN-01_DOE-RL-2019- 32_R0	Interim Status Change Number 1: Interim Status Groundwater Quality Assessment Plan for the Low-Level Burial Grounds Waste Management Area-3	TPA Document
DOE/RL 2019-66	Hanford Site Groundwater Monitoring Report for 2019	TPA Document
BHI-01018 Rev 2	Environmental Restoration Contractor Management Plan for Inactive Miscellaneous Underground Storage Tanks (IMUSTs)	DOE/RL-2020-27_DA
BHI-01269 Rev 0	Email Report for Interim Stabilization of PUREX Contamination Areas	DOE/RL-2020-27_DA
BHI-01584 Rev 0	Final Report for Interim Stabilization of PUREX E- Field (200-E-107) Contamination Area	DOE/RL-2020-27_DA
CP-14176 Rev 0	Remedial Investigation Data Quality Objectives Summary Report for the 200-PW-4 Operable Unit	DOE/RL-2020-27_DA
CP-14977 Rev 11	Plutonium-Uranium Extraction Facility Documented Safety Analysis	DOE/RL-2020-27_DA
CP-41822 Rev 4	Fire Hazards Analysis for the Plutonium Uranium Extraction Facility	DOE/RL-2020-27_DA
CP-61786 Rev 0	Inventory Data Package for the Hanford Site Composite Analysis	DOE/RL-2020-27_DA
SGW-38048 Rev 0	Borehole Summary Report for the 216-A-30 Crib Characterization Borehole C5941 in the 200-SC-1 Operable Unit	DOE/RL-2020-27_DA
HNF-2545 Rev 0	Plutonium-Uranium Extraction Facility (PUREX) Plutonium and Fission Product Residual Estimates	DOE/RL-2020-27_DA
HNF-11698 Rev 0	PUREX Roof Collapse Accident Analysis	DOE/RL-2020-27_DA
HNF-SD-CP-CR-037 Rev 1	PUREX Heating Ventilation and Air Conditioning Consolidation Document	DOE/RL-2020-27_DA
HNF-SD-CP-CR-034 Rev 2	PUREX Heating Ventilation and Air Conditioning Document	DOE/RL-2020-27_DA
WHC-EP-0646 Rev 0	Characterization of Past and Present Solid Waste Streams from the Plutonium-Uranium Extraction Plant	DOE/RL-2020-27_DA
WHC-MR-0437 Rev 0	A Brief History of the PUREX and UO3 Facilities	DOE/RL-2020-27_DA
WHC-SD-SQA-CSA-511 Rev 0	Facility Re-Classification and Criticality Alarm Shutoff for De-Activated PUREX	DOE/RL-2020-27_DA
CP-14682 Rev 0	Data Quality Objectives Summary Report for the Designation of the 200-PW-2 abd 200-PW-4 Investigation-Derived Wastes	DOE/RL-2020-27_DA

Number	Title	Referencing Documen
BHI-01358 Rev 1	Plutonium-Uranium Extraction Plant (PUREX) Hazards Assessment	DOE/RL-2020-27_DA
CP-13467 Rev 3	PUREX Emergency Planning Hazards Assessment	DOE/RL-2020-27_DA
HNF-SD-CP-ISB-004 Rev 0	Plutonium-Uranium Extraction (PUREX) End State Basis for Interim Operation (BIO) for Surveillance and Maintenance	DOE/RL-2020-27_DA
RHO-CD-1076 Rev 0	Structural Evaluation of the PUREX No. 1 Burial Tunnel	DOE/RL-2020-27_DA
SGW-44795 Rev 0	Critical Review of Historical Field Logging, and Analytical Data for PUREX A Cribs to Estimate Vertical Distribution and Horizontal Spreading of Risk Driving Contaminants	DOE/RL-2020-27_DA
ECF-HANFORD-17-0079 Rev 0	Hanford Soil Inventory Model (SIMv2) Calculated Inventory at Direct Liquid Discharges to Soil in the Hanford Site's 200 Areas	DOE/RL-2020-27_DA
D&D 33703 Rev 0	Data Quality Objectives Summary Report Characterization of the 202-A Building (PUREX Canyon)	DOE/RL-2020-27_DA
RHO-CD-904 Rev 0	PUREX Filter Safety Analysis Study	DOE/RL-2020-27_DA
CHPRC-04412 Rev 0	Physical Condition of PUREX Storage Tunnels Post Stabilization	DOE/RL-2020-27_DA
RPP-26253 Rev 0	Tank Waste Sampler Selection Criteria and Hierachy	DOE/RL-2020-27_DA
WHC-IP-0977 Rev 0	Estimation of PUREX Equipment and Materials that are Candidates for Removal and Waste Processing During PUREX Plant Closure	DOE/RL-2020-27_DA

Milestones and O.U. Status July - August 2020 Data September 17, 2020

Approved Change Notices

Number	Title	Description of Change				
TPA-CN-0889	DOE/RL-2010-33, Removal Action Work Plan for Central Plateau General Decommissioning Activities, Rev. 0	The scope of DOE/RL-2010-33 is amended through the addition of twenty-five structures (2402EA, MO2109, MO2110, MO2111, MO2112, MO2113, MO2114, MO2115, MO2116, MO2117, MO2118, MO2119, MO2120, MO2121, MO2122, MO2123, MO2124, MO2177, MO2304, MO2305, MO2306, MO2307, MO2506, MO6500, and 234-5Z-BE) through inclusion onto the list in Table 1-1.				
TPA-CN-0888	DOE/RL-2011-102, Remedial Investigation/Feasibility Study and RCRA Facility Investigation/Corrective Measures Study Work Plan for the 200-DV-1 Operable Unit, Revision 0	DOE/RL-2011-102, Rev. 0, is amended to update the project schedule and to add information about the supplemental characterization activities that were performed based on addenda to the sampling and analysis plan.				
TPA-CN-0897	DOE/RL-2010-33, Removal Action Work Plan for Central Plateau General Decommissioning Activities, Rev. 0	The scope of DOE/RL-2010-33 is amended by the addition of two structures (2715ZL and 2712S) and the removal of one structure (292T) to the list in Table 1-1.				

Monthly Performance Report Assessment

The DOE project managers have not identified any significant issues with CHPRC's previous Monthly Performance Report to be addressed at this meeting.

200 Area Project Managers Meeting September 17, 2020

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status	