

**Central Plateau/River Corridor
Tri-Party Agreement Quarterly Milestone Review Meeting Minutes
June 18, 2020**



Tri-Party Agreement

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

SIGNATURES:

Approval:  Date: 9/29/2020
W.F. Hamel, DOE-RL Representative

Approval: **DAVID EINAN** Digitally signed by DAVID EINAN
Date: 2020.09.22 15:26:21 -07'00' Date: _____
D.R. Einan, EPA Representative

Approval:  Digitally signed by Smith, Alex
(ECY) Date: 2020.09.22 08:21:20
-07'00' Date: _____
A.K. Smith, Ecology Representative

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1.0 INTRODUCTION

The Central Plateau/River Corridor Tri-Party Agreement (TPA) Quarterly Milestone Review meetings are normally held quarterly between the U.S. Department of Energy (DOE), Washington State Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA); also referred to as the Parties.

This meeting was held remotely via video and telecom utilizing the Microsoft Office Teams software, a communication and collaboration platform, due to the Hanford Site's current Phase 1 Remobilization process stemming from the COVID-19 (coronavirus) pandemic.

Mission Support Alliance, LLC (MSA) welcomed the Parties and explained that the meeting would cover the agenda items (see attachments).

2.0 PLUTONIUM FINISHING PLANT CLOSURE

2.1 Milestone

DOE reviewed the milestone slides that cover March 2020 through May 2020. DOE reported milestone M-083-00A was missed and work will resume once it is safe to return from the stay-at-home order.

2.2 Project Baseline Performance

DOE reported due to the COVID-19 work pause the Plutonium Finishing Plant (PFP) demolition project is behind schedule and over budget. DOE is working to obtain FY2021 funding to complete the project.

2.3 Status: March through May 2020

DOE presented a before and after photo of Plutonium Reclamation Facility (PRF) progress. DOE reported final phase cleanup of 236-Z continues, 33 containers of waste were transported to Environmental Restoration Disposal Facility (ERDF) and soil fixative was reapplied to the PFP work area. However, as of March 24, 2020, the PFP project has been placed in a "Minimum Safe" configuration.

2.4 Planned Activities

DOE reported the remaining PFP work scope is considered high-risk, and is not planned to resume until October 2020. DOE stated PFP work would resume in remobilization Phase 3B.

Ecology asked for the schedule of when additional funding is needed for PFP. DOE responded they are currently working with Headquarters. However, if funding is not allocated within the required time frame, DOE will move to continuing resolution based on prior years' funding. Ecology asked if there was an estimated completion cost. DOE answered they are currently working with Headquarters on the contractor's estimate. DOE's rough order of magnitude

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(ROM) is 3 months, which works out to be roughly \$15 million. DOE also stated they are still working on re-baselining the project and will have a revised total cost of the project once completed. Ecology accepted the ROM until numbers can be finalized.

DOE reported completing capital asset projects RL-0011.C1, PFP Decommissioning and Deactivation.

3.0 LIFECYCLE COST REPORT

DOE reported there are no significant activities currently happening with the lifecycle cost report. The milestone has been changed to be due every 3 years. DOE is waiting for System Plan 9 to be completed, which will drive changes to the next lifecycle cost report.

4.0 RIVER CORRIDOR CLOSURE

4.1 300-296 Soil Removal

DOE explained the 300-296 soil removal work has been placed on hold due to contamination found in the fall and will continue to be on hold due to COVID-19 restrictions. DOE reported the CAP is being worked on and the contractor has transmitted it to DOE. Items that can be worked on remotely are being addressed. DOE stated advance radiological training will be the first work started, once onsite work resumes. Other ongoing actions include project reorganization for infusion of additional seasoned nuclear facility and health & safety management. DOE reported the release of the 324 Building Structural Formal Design Review Report on May 19, 2020.

4.2 100K Closure

DOE reported completion of fabrication of the vertical pipe casing (VPC) components to be used for debris segregation in the 105-KW Basin. VPC is for the high-activity waste to be grounded up by an auger and then removed. DOE provided pictures of a Texas mock-up of the VPC. DOE stated readiness review activities have been completed and they are continuing in-basin preparation for VPC installation that includes clearing out the floor and garnet filter media acceptance testing. DOE reported completing the 105-KE Reactor Interim Safe Storage (ISS) Statement of Work for the safe storage enclosure construction. DOE stated their planned work included fabrication and receipt of VPC system equipment. DOE informed the Parties they are working on a change control form package for M-093-27 milestone. DOE noted they are on schedule to complete the 105-KE ISS by 2024.

4.3 Project Baseline Performance

DOE reviewed the attachment slide with no new updates.

4.4 Milestone Summary

DOE noted milestones that are at risk include:

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- M-016-86, *Complete remedial actions for 618-11 Burial Ground,*
- M-016-143, *Complete the Interim Response Actions for the 100K Area Phase 2,*
- M-016-00C, *Complete all response actions in the 100K Area and*
- M-093-27, *Complete 105-KE & 105-KW Reactor ISS.*

DOE reported that once new contractors are on board, they would work on establishing new milestone dates.

5.0 SOLID WASTE STABILIZATION AND DISPOSITION PROJECT

5.1 Accomplishments

DOE reported transuranic mixed waste/mixed low-level waste (TRUM/MLLW) shipments to Perma-Fix Northwest (PFNW), which has continued through the COVID-19 pandemic. Milestone M-091-52-T01 has also been completed with the removal of 20 additional mixed waste containers from Outside Storage Area A and/or Outside Storage Area B.

5.2 Planned Activities

DOE stated they continue waste processing toward next TRUM/MLLW objective and discussions are ongoing with Ecology on the M-091 milestone series change package, which will be sent to Ecology in July 2020. DOE is also working towards completion of target date M-091-52-T03, processing facilities/capabilities for Contact Handled waste containers and milestone M-091-03, to revise the Project Management Plan with a new and updated approach to waste handling treatment and/or processing.

5.3 M-092-00

DOE noted work continues on the disposition path for cesium and strontium capsules. DOE reported completing CHPRC independent review report for the Waste Encapsulation and Storage Facility (WESF) modification line item and finalizing the Capsule Storage Area (CSA) Resource Conservation and Recovery Act (RCRA) Permit. DOE plans on receiving the submittal for the WESF modifications Critical Decision-2/3 package for their review, mobilizing for construction for the Maintenance and Storage Facility (MASF) mock-up and continuing fabrication of Cask Storage System (CSS) equipment. This is all dependent on site remobilization.

5.4 M-026-00 Land Disposal Restrictions

DOE reported the Land Disposal Restrictions (LDR) report draft is in approval, and will meet the July 31, 2020 milestone due date.

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5.5 Milestone Summary

DOE reviewed the M-091 milestone summary page and indicated a change package is being negotiated and should be completed soon.

5.6 Project Baseline Performance

DOE noted no significant cost or schedule variances on the Project Baseline Performance slide.

6.0 SOIL AND GROUNDWATER REMEDIATION PROJECT

6.1 Accomplishments – River Corridor

DOE reported delivering approximately 60 million gallons of water to the KW infiltration gallery as of March 9, 2020. Sampling has slowed due to COVID-19, but work will resume. DOE hopes to flush all the contaminants out to complete KW infiltration. DOE noted they continue to work with EPA to resolve public comments on the 100-BC-5 Proposed Plan. The main comment is if the inland aquifer cleanup level applies. DOE noted they are working with Ecology on final comments on the 100-HR-3 Draft A and have extended the resolution period to August 15, 2020. DOE transmitted the 100-KR-4 Feasibility Study to EPA in May 2020.

6.2 Accomplishments – Central Plateau

DOE reported conducting a storyboard session with Ecology and EPA on 200-CP-1 and submitted a draft white paper describing the Representative Analogous Site Coordinating Agency Liaisons (RASCAL) strategy in support of the Interagency Management Integration Team (IAMIT) agreement. DOE noted starting the public review of the 200-BP-5/200-PO-1 Proposed Plan and issued the 200-ZP-1 Performance Monitoring Plan to EPA in May 2020. DOE stated there is a public meeting for 200-BP-5/200-PO-1 on June 18, 2020. Ecology requested the meeting invite be sent out to the Parties. MSA took the action to send out the link.

DOE reported on the current closure plans. The 216-A-37-1 Crib was certified and submitted to Ecology, 216-B-63 Trench was placed into “Freeze” status by Ecology and is ready for certification, and 216-S-10 Pond was submitted to Ecology to be “Frozen” and is waiting for bulk certification with the other closure plans.

6.3 Milestone Summary

DOE reported milestone the M-015 series milestones are in a draft Agreement in Principle (AIP) and should be negotiated in a holistic approach. The M-024 milestones are on schedule and a schedule has been sent for completion of milestone M-024-71. Milestone series M-085 for 200-CP-1 is on schedule while milestones for 200-CB-1 are in dispute resolution and 200-CR-1 is at risk. DOE noted that both the M-016-119-T01 and M-016-110-T02 target dates were deleted via an approved change control form.

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6.4 RL-30 Project Baseline Performance

DOE stated RL-30 is on budget and on schedule.

6.5 Planned Activities

For River Corridor planning, DOE reported progress towards completing the Record of Decision (ROD) for 100-BC-5, resolving Ecology's comments for 100-HR-3 Work Plan, resolving EPA's comments on the 100-KR-4 Remedial Investigation (RI) Draft B, and dispositioning Ecology's comments on the 100-NR-2 Remedial Investigation/Feasibility Study (RI/FS) Draft B. Not all comments have been received for the 100-NR-2 RI/FS; however, DOE is working on the comments received thus far. DOE is planning to issue the 100-N TI waiver supporting documents. Ecology requested additional information on the 100-N TI waiver and how Ecology receives information. DOE responded they are working on supporting documents for the waiver and will share those with Ecology.

DOE reported Central Plateau plans to finalize the 200-EA-1 RI/FS Work Plan following negotiations. EPA asked if negotiations start with an AIP. DOE confirmed they will start negotiations with an AIP. DOE noted they are working to issue the 200-ZP-1 and 200-UP-1 Work Plans and submit five closure plans.

7.0 CENTRAL PLATEAU REMEDIATION PROJECT

7.1 REDOX Risk Reduction Accomplishments

DOE reported REDOX is a minimum safe essential area and limited work is being done. Work being conducted includes preliminary work for the ventilation system with units in fabrication.

7.2 Other Accomplishments

DOE stated they are working on their social distancing plan for return to work and initiated trailer modifications. DOE also awarded the routing subcontract for stabilization of 216-Z-2, 241-Z-361, and 216-Z-9 Cribs. Mock-up testing will be conducted and is slated for the end of calendar year 2020.

7.3 Accomplishments

DOE reported progress on the Z Crib Time Critical Removal Actions. DOE stated the PUREX Complex Removal Action Work Plan (RAWP), along with 224T RAWP and 224T Sampling and Analysis Plan (SAP) will be terms that will be repeated as work progresses.

7.4 Planned Activities for Central Plateau Risk Management (CPRM)

DOE stated they have paused improving REDOX infrastructure but will be ramping back up. DOE is planning characterization activities and container transfer area revisions to begin

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asbestos abatement at U-Plant. DOE reported the restart of the 200 East steam line abatement and pipe support demolition fieldwork activities.

EPA asked if the ramp-up of the country's PPE demand has had an effect onsite and if that is the reason for moving forward at U-Plant and not moving forward with waste sites. EPA stated they want to better understand why monitoring is being conducted rather than work at pump and treats. DOE responded that monitoring at waste sites will resume once PPE requirements and availability is met and agreed that facilities are not high-priority activity. DOE added what is being completed at WRAP is planning and sampling characterization, that uses laundered PPE rather than expendable PPE. DOE added that this work will not start until authorization of Phase 2 site remobilization. DOE noted that a continued increase in work force is of high importance to keep efficiency.

DOE reported planning to complete all electrical isolations of 224B and will eventually move to 224T.

7.5 Planned Activities

DOE is planning to get regulatory documents in place and stated no issues on the document list slide on page 40. DOE appreciated all the support from EPA and Ecology.

7.6 Milestone Summary

DOE reported milestone M-016-255E has moved to September to align with completing the RASCAL process.

7.7 Project Baseline Performance

DOE reported no significant changes.

8.0 KEY DOCUMENTS LIST

DOE noted the key document list was updated and the updates were shown in red font.

DOE also mentioned that all six pump and treats have remained in operation during COVID-19 and fieldwork consists of sampling that is low-risk work. Well drilling is planned for Phase 2.

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**9.0 REVIEW OF TODAY'S ACTIONS/UPCOMING QUARTERLY
MILESTONE REVIEW MEETINGS**

The following actions were captured during the meeting and provided to the Parties following this milestone review meeting:

No.	Quarterly Milestone Topic	Actions from 6/18/20 Meeting
1	Soil and Groundwater Remediation Project	Send to attendees, the link to the 200-BP-5/200-PO-1 Proposed Plan Virtual Public Meeting being held on June 18th from 5:30 pm -6:30 pm.
2	Soil and Groundwater Remediation Project	Provide an update to the 100-KR-4 Waiver to Ecology
3	Soil and Groundwater Remediation Project	DOE to share TI waiver for the 100-N with Ecology

The next Quarterly Milestone Review meeting is scheduled for September 17, 2020.

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10.0 LIST OF ATTENDEES

Hamel, Bill	DOE
Teynor, Thom	DOE
Cline, Michael	DOE
Higgins, Kathy	DOE
Colton, Ingrid	DOE
French, Mark	DOE
Ortiz, Shannon	DOE
Menard, Nina	Ecology
Price, John	Ecology
Boyd, Alicia	Ecology
Deluna, Will	Ecology
Mathey, Jared	Ecology
Elsethagen, Kelly	Ecology
Goswami, Dib	Ecology
Menard, Nina	Ecology
Einan, Dave	EPA
Cameron, Craig	EPA
Brasher, Stephanie	MSA
Davis, Scott	MSA
Winters, Rylie	MSA
Fergusson, Aaron	MSA
Bergman, Theresa	CHPRC



AGENDA
Tri-Party Agreement Central Plateau/River Corridor Milestone Review
June 18, 2020

Place: Microsoft Teams
Time: 9:00-10:30 a.m.
Chair: Bill Hamel
Agenda: See Attached

Time	Milestones	Subject	DOE Presenter
9:00 a.m.	M-036	Life Cycle Cost Report	Shannon Ortiz
9:10 a.m.	M-083	Plutonium Finishing Plant (PFP) Closure	Tom Teynor
9:20 a.m.	M-016, 089, 093, 094	100 K Remediation/River Corridor Closure	Mark French
9:40 a.m.	M-091, M-026, M-092	Acquisition of Facilities to treatment, storage, and disposal (TSD), transuranic (TRU), Land Disposal Restrictions Report, transuranic mixed (TRUM) and low-level mixed waste (LLMW)	Mark French
9:55 a.m.	M-016, 037, 085	Central Plateau Remediation	Mark French
10:15 a.m.	M-015, 016, 024, 085	Soil and Groundwater Remediation	Mike Cline
10:25 a.m.	—	Richland Operations Office Key Documents List	Mike Cline
10:30	—	Adjourn	—

**Hanford Federal Facility Agreement and Consent Order
IAMIT Milestone Review Form
(For Milestones without Issues or Significant Activity)**

M-036-01 Hanford Lifecycle Scope, Schedule and Cost Report

Date: June 18, 2020

1. Significant Activities Last Three Months

- No significant activities to report over the last three months as the M-036-01 Milestone requiring the development of an annual Lifecycle, Scope, Schedule and Cost Report (LCR) has been changed (TPA Change Number M-36-19-01) to reflect a triennial report submittal schedule. The next report will be submitted in January 2022.

2. Budget Status (within budget or explain variance)

- No major issues identified.

3. Issues

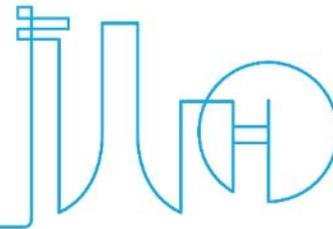
- No major issues identified.

4. Non-TPA Regulatory Issues with Potential Impact to TPA Milestone

- No major issues identified.

5. Significant Activities Planned Next Three Months

- No significant actions are planned during the next 3 months.



PFP Closure Project, March – May 2020 TPA Milestone Series: M-083



Plutonium Finishing Plant Complex – May 2020



June 18, 2020

U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

Milestone

Milestone	Due Date	Description	Status
M-083-00A	9/30/17	Complete PFP Facility transition & selected disposition activities. Completion of this major milestone includes the following key elements: 1) completion of all activities necessary to achieve end point criteria established through Milestone M-83-20 for placing the PFP facility in a safe and stable S&M mode, 2) completion of all activities described in the approved M-83 series interim milestones and target date; and 3) completion of the balance of PFP selected disposition activities pursuant to the final action memoranda and work plans. Also see “description/justification” contained in change form M-83-01-03.	Missed



Project Baseline Performance

Contract to Date (Through May 2020)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	\$1,143.6	\$1,129.9	\$1,239.0	(\$13.7)	(1.2%)	(\$109.1)	(9.7%)	\$1,143.6	\$1,253.7	(\$110.2)

Fiscal Year to Date (Through May 2020)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	\$21.6	\$21.2	\$34.5	(\$0.4)	(1.7%)	(\$13.2)	(62.4%)



Status: March through May 2020



December 2010



March 2020



Status: March through May 2020

- Final phase cleanup of 236-Z continued into March
- 33 containers of waste transported to ERDF in March
- Reduction to mission essential work only implemented end of March due to COVID-19
- Reapplication of fixative every 30 days (April 14 & May 19)



Planned Activities June through August 2020

- The remaining PFP work scope is considered high risk, and is not planned for resumption until late September



River Corridor Closure

March 2020 - May 2020

TPA Milestone Series: M-016, M-089, M-093, M-094



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

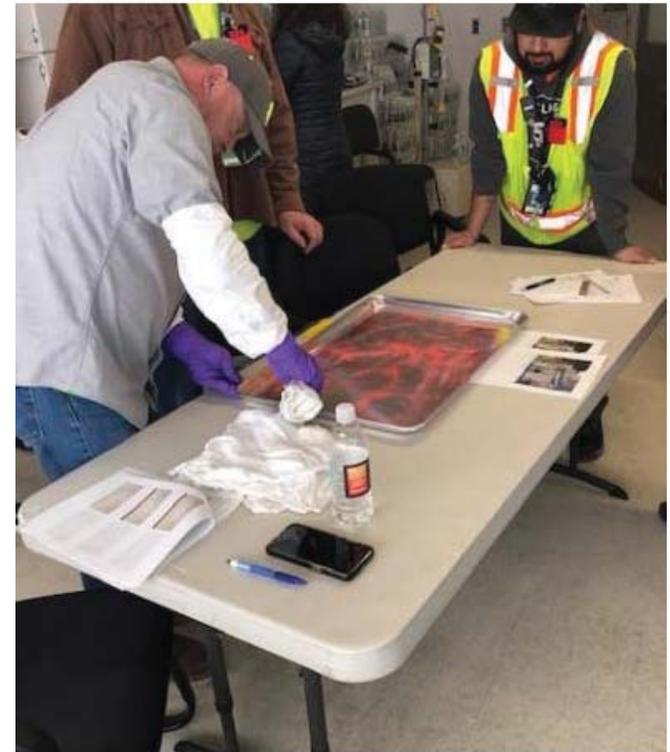


June 18, 2020

300-296 Soil Removal

Resumption Activities

- CHPRC finalized the Root Cause Evaluation Report and Corrective Action Plan (CAP) in April.
- Many corrective actions already underway, including:
 - Development and implementation of advanced radiological training, including simulated hands-on practical demonstrations.
 - Modifying the 324 Mockup facility for use in the hands-on advanced radiological training.
 - Project reorganization including infusion of additional seasoned nuclear facility and health & safety management.
- CAP implementation and overall project schedule being updated to reflect impacts of mission-essential only operations (i.e., COVID).



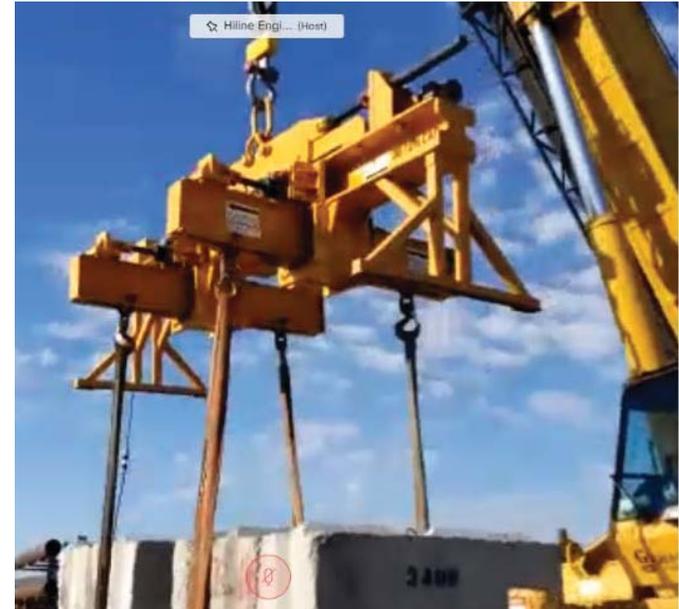
Hands-on decontamination activity during the 324 Advanced Radiological Training. Simulates the mobility of contamination.



300-296 Soil Removal

Significant Accomplishments (March 2020 through May 2020)

- CHPRC released the 324 Building Structural Formal Design Review Report on May 19th marking the completion and acceptance of the vendor design.
- Initiated reconfiguring trailers, cubicles, and conference rooms to align with social distancing requirements.
- Completed the Factory Acceptance Test of the self leveling device that will safely move large waste containers within and out of the 324 building.



Factory Acceptance Test of the self leveling device at Hiline

100K Closure

Significant Accomplishments (March 2020 through May 2020)

Completed fabrication of some Vertical Pipe Casing (VPC) components to be used for debris segregation in the 105-KW Basin.



VPC Base and Debris Washing Station



VPC Debris and Center Section



100K Closure

Significant Accomplishments (cont.) (March 2020 through May 2020)

- Completed fabrication and installation of two simulated VPC casings to support auger testing at contractor facility in Texas, and delivery of mock high-dose debris.



VPC Mockup – Ready to load and grout



VPC Mockup



100K Closure

Significant Accomplishments (cont.) (March 2020 through May 2020)

- Continued in-basin preparation for VPC installation and Garnet Filter Media Retrieval (GFMR).
- Completed GFMR Construction Acceptance Testing and started readiness review activities.
- Completed 105-KE Reactor Interim Safe Storage (ISS) Statement of Work for Safe Storage Enclosure (SSE) construction and released Request for Proposal.
- Continued demolition of the 166KE Fuel Storage Bunker.
- Completed overburden soil removal at waste site 100-K-47:2.
- Completed site prep at waste site 100-K-60.
- Field work discontinued on March 17th.
- Preparations underway for resumption of field activities in June.



100K Closure

Planned actions (through August 2020)

105-KW Basin Deactivation

- Continue to re-design areas and implement solutions to support social distancing for work force and resumption of work.
- Complete fabrication of VPC auger mockup and perform auger testing.
- Complete fabrication and receipt of VPC system equipment.
- Continue readiness review activities for GFMR startup.
- Begin training of personnel for the GFMR operations.

105-KE Interim Safe Storage

- Review proposals for 105-KE Reactor ISS/SSE construction.
- Finalize TPA change package for target dates for Milestone M-093-27.



100K Closure

Planned actions (through August 2020)

Waste Sites – Continue planning and activities in support of the following soil remediation sites

- 100-K-99
- 100-K-47:1
- 100-K-47:2
- 116-KE-2
- 100-K-60



Aerial photo of 100-K NE quadrant



Project Baseline Performance

Contract to Date through May 24, 2020

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	765.3	745.0	741.7	(18.3)	5.3	808.2	807.5	.7

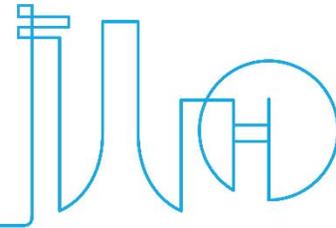
Numbers are rounded to the nearest \$0.1 million.



Milestone Summary

Milestone	Due Date	Description	Status
M-016			
M-016-85	9/30/2025	Complete remedial actions for 300-296 and final disposition for 324 building and Ancillary buildings	On schedule
M-016-85A	9/30/2021	Complete remote excavation of the 300-296 waste site	On schedule
M-016-086	9/30/2021	Complete remedial actions for 618-11 burial ground in accordance with DOE/RL-2014-13-ADD1	At Risk
M-016-143	9/30/2024	Complete the Interim Response Actions for the 100K Area Phase 2	At Risk
M-016-181	9/30/2023	Complete Deactivation, Demolition & Removal of 105-KW Fuel Storage Basin	On Schedule
M-016-186	12/31/2023	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	On Schedule
M-016-00C	9/30/2024	Complete all response actions in the 100K Area	At Risk
M-093			
M-093-27	9/30/2024	Complete 105-KE & 105-KW reactor ISS in accordance with removal action work plan	On schedule -At risk





Solid Waste Stabilization and Disposition Project

TPA Milestone Series: M-091, M-026, and M-092

March 2020 – May 2020

June 18, 2020



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

Columbia River White Bluffs



Accomplishments

March 2020 – May 2020

- TRUM/MLLW Waste shipments continue to PFNW, completed 1,351 m³ since August 2017.
- M-091-52-T01 Completed removal of twenty (20) additional mixed waste containers from Outside Storage Area A and/or Outside Storage Area B.



Glovebox Size reduction and repackaging at Perma-Fix Northwest



Planned Activities

June 2020 – August 2020

- TRUM/MLLW Treatment
 - Continue waste processing toward next objective.
 - Discussions with Ecology on M-091 milestones.
- M-091-52 Target Milestones
 - Continue progress towards M-091-52-T03 to develop a mission needs statement (CD-0) regarding CH processing facilities/capabilities.
 - Continue progress towards M-091-03 to revise the Project Management Plan (PMP) regarding new and updated approach to waste handling treatment and/or processing.



M-092-00

Determine disposition path and establish interim agreement milestones for Hanford Site Cesium and Strontium capsules.

- March 2020 – May 2020 Accomplishments:
 - The MCSC Project completed the PRB/TIPR Report for the WESF Modification Line Item.
 - The CSA RCRA Permit was finalized.
- June 2020 – August 2020 Planned Activities:
 - The MCSC Project plans to submit the WESF Modifications CD-2/3 Package to RL for review and approval.
 - Resume construction of the CSA and MASF Mockup Facility.
 - Continue fabrication of CSS equipment.

CSA	=	Capsule Storage Area
CSS	=	Cask Storage System
MASF	=	Maintenance and Storage Facility
MCSC	=	Management of Cesium & Strontium Capsules Project
PRB/TIPR	=	Project Review Board/Technical Independent Project Review
WESF	=	Waste Encapsulation & Storage Facility



M-026-00 Land Disposal Restrictions

The *CY2014 Hanford Site Mixed Waste Land Disposal Restrictions (LDR) Full Report* completed and approved November 5, 2019.

- Milestone M-026-01AD was extended through July 31, 2020, and is on schedule.
- Ecology project managers will change hands in July (Elsethagen/Soto to Mathey/Conaway/Rogers).
- DOE may consider rewriting or replacing the LDR software.



Milestone Summary

Milestone	Due Date	Title	Status
M-091			
M-091-47D	9/30/2018	Submit Change Request to Establish Next Two TRU/MLLW Annual Certification/ Disposal Milestones	Complete
M-091-53	9/30/2018	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	Complete
M-091-03N	9/30/2020	Submit Revision of TRUM Waste and MLLW PMP to Ecology	On Schedule
M-091-44T	9/30/2020	Submit Change Package to Establish Schedule for Achieving Offsite Shipment of All TRUM Waste	On Schedule
M-091-49A	9/30/2020	Submit a Change Request to Establish a Schedule for Achieving the Retrieval of RSW	On Schedule
M-091-52-T01C	11/30/2020	Remove 20 Additional Mixed Waste Containers from Outside Storage Area A and/or B	Complete



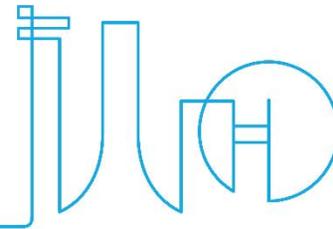
Project Baseline Performance through May 2020

RL-0013 Solid Waste Stab & Disp	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,028,482.7	1,022,012.2	960,560.8	(6,470.4)	-0.6%	61,451.4	6.0%	1,078,544.7	1,019,688.5	58,856.2

Numbers are rounded to the nearest \$0.1 million.

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Project Management	185,821.9	185,184.0	149,714.0	-0.3%	19.2%
Capsule Storage & Disposition	117,384.3	117,372.4	126,666.9	0.0%	-7.9%
Mixed Low Level Waste Treatment	43,182.5	43,182.5	37,200.3	0.0%	13.9%
TRU Retrieval	100,363.5	100,322.3	112,563.5	0.0%	-12.2%
TRU Repackaging	125,208.4	124,958.4	119,472.5	-0.2%	4.4%
Waste Receiving and Processing Facility	62,024.2	62,024.2	60,160.8	0.0%	3.0%
T Plant	160,531.7	159,150.2	137,162.7	-0.9%	13.8%
Central Waste Complex	134,281.0	133,222.8	130,129.8	-0.8%	2.3%
TRU Disposition	34,876.4	34,988.8	26,320.5	0.3%	24.8%
Mngt of Cesium and Strontium Capsules Proj W-135	22,109.7	19,925.2	20,958.4	-9.9%	-5.2%
Capsule Interim Storage Operations	42,699.2	41,681.4	40,211.6	-2.4%	3.5%





Soil and Groundwater Remediation Project

TPA Milestone Series: M-015, M-016, M-024, M-085



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

March 2020 – May 2020



Accomplishments – River Corridor

March 2020 – May 2020

- Delivered approximately 60 million gallons of water (7 pore volumes) to the KW infiltration gallery as of March 9, 2020. The KW infiltration gallery was shutdown on March 10, 2020 to assess the effectiveness of soil flushing.
- Continue to work with EPA in resolving public comments on the 100-BC-5 Proposed Plan.
- Received Ecology’s final comments on the 100-HR-3 RD/RAWP, Draft A, on May 13, 2020. The comment resolution period was extended to August 15, 2020.
- Transmitted the 100-KR-4 Feasibility Study, Draft B, (DOE/RL 2018-22) to EPA for review on May 26, 2020.



Accomplishments – Central Plateau March 2020 – May 2020

- Conducted a Storyboarding Session for the 200-CP-1 OU (PUREX) with Ecology and EPA on April 8, 2020.
- Submitted the draft white paper that describes the RASCAL strategy in support of the draft IAMIT agreement for review on May 26, 2020.
- The public review of the 200-BP-5/200-PO-1 Proposed Plan started May 4, 2020. Tri-Parties conducted a briefing with the Hanford Advisory Board River and Plateau on May 21, 2020.
- Issued the 200-ZP-1 Performance Monitoring Plan, Rev 1, and transmitted to EPA on May 11, 2020.



200 West P&T Facility Upgrades for
200-ZP-1 Optimization Study



Accomplishments – Central Plateau

March 2020 – May 2020

- **Closure Plans**

- **216-A-37-1 Crib:** Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on May 3, 2019.
- **216-B-63 Trench:** Closure Plan was placed into 'Freeze' status by Ecology on April 20, 2020. It is ready for certification and is waiting for bulk certification with the other closure plans.
- **216-S-10 Pond:** Closure Plan was submitted to Ecology on May 6, 2020 to be 'frozen.' It is ready for certification and is waiting for bulk certification with the other closure plans.



Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
M-015-00			
M-015-93C	9/30/2018	Initiate characterization of the 200-SW-2 OU landfills	Dispute Resolution**
M-015-97	8/30/2020	Submit to Ecology, the 200-OL-1 Operable Unit Feasibility Study Report	On Schedule
M-015-98	6/30/2019	Complete remedial investigation of U Plant waste sites located in 200-WA-1 in accordance with WP	Dispute Resolution*
M-015-99	12/31/2019	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	Dispute Resolution*
M-015-112	11/30/2020	Submit RFI/CMS and RI/FS Work Plan for 200-IS-1 Work Plan to Ecology	At Risk
M-015-92B	11/30/2022	Submit RFI/CMS & RI/FS Report and PCAD/PP for 200-EA-1 to Ecology	At Risk
M-015-92C	3/31/2023	Submit RFI/CMS & RI/FS Report and PCAD/PP for 200-IS-1 to Ecology	At Risk
M-015-38B	7/31/2023	Submit a FS Report & PP for CW-1, CW-3 & OA-1 Ous to EPA	At Risk
M-015-110B	9/30/2023	Submit CMS & FS & Proposed Plan /CA Decision for 200-DV-1 to Ecology	At Risk

* Subsequent follow-on milestones (M-015-84 and M-015-91B) are also in dispute resolution.

** Subsequent follow-on milestone (M-015-93B) is also in at risk.



Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
M-024-00			
M-024-71-T01	8/1/2020	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-70	12/31/2019	Complete the Construction of All Wells Listed for CY19 and Before	Completed
M-024-71	12/31/2020	Complete the Construction of All Wells Listed for CY20 and Before	On Schedule
M-024-58M	6/1/2020	Initiate Discussions of Well Commitments	Completed 5/27/2020
M-085-00			
M-085-70	9/30/2019	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CB-1 to Ecology	Dispute Resolution
M-085-80	9/30/20	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology	On Schedule
M-085-90	9/30/2021	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA	At Risk
M-016-00			
M-016-119-T01	12/31/2020	Operational System in Place to Contain GW Plumes in 200 NPL Area	Deleted
M-016-110-T02	12/31/2020	Take Actions Such that Hexavalent Chromium Meets Drinking Water Standards	Deleted



RL-30 Project Baseline Performance

Contract to Date Through May 2020

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,712.7	1,696.3	1,647.8	-16.4	-1.0%	48.5	2.9%	1,755.1	1,706.9	48.2

Numbers are rounded to the nearest \$0.1 million. Period of performance 10/1/2008 through May 2020



Planned Activities

June through August 2020

River Corridor

- EPA to continue preparation of the 100-BC-5 ROD.
- Resolve Ecology's comments and issue the 100-HR-3 RD/RA Work Plan.
- Resolve EPA's comments on the Draft B 100-KR-4 RI.
- Disposition Ecology's comments on the Draft B 100-NR-2 RI/FS.
- Issue the 100-N TI waiver supporting documents.

Central Plateau

- Finalize 200-EA-1 RI/FS Work Plan following Tentative Agreement negotiations.
- Hold a virtual public meeting for 200-BP-5/ 200-PO-1 Proposed Plan on June 18th from 5:30 pm -6:30 pm. Complete the public review of the 200-BP-5/ 200-PO-1 Proposed Plan on July 8, 2020.



Planned Activities

June through August 2020

Central Plateau

- Issue the 200-ZP-1 RD/RA WP, Rev 1.
- Issue the 200-UP-1 RD/RA WP, Rev 1.
- Issue the 200-UP-1 Performance Monitoring Plan, Rev 1.
- Certify and submit the 216-B-3 Pond Closure Plan.
- Certify and submit the 216-S-10 Pond and Ditch Closure Plan.
- Certify and submit the 241-CX Tanks Closure Plan.
- Certify and submit the 216-A-29 Ditch Closure Plan.
- Certify and submit the 216-B-63 Trench Closure Plan.



Central Plateau Remediation Project

TPA Milestone Series: M-016, M-037, M-085

March 2019 – May 2020
June 18, 2020



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

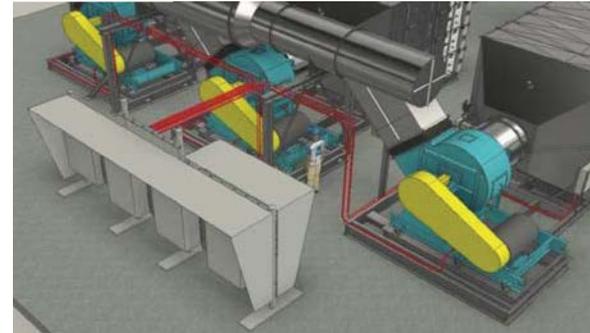
Columbia River White Bluffs



REDOX Risk Reduction Accomplishments

March 2020 through May 2020

- Awarded the electrical power drop contract to support REDOX Cold & Dark.
- Awarded the balance of system contract for the REDOX ventilation system.
- Awarded the REDOX wind tunnel excavation contract.
- Completed the engineering change request for the modification of the second legacy exhaust fan in support of the REDOX Air Monitoring Plan.



REDOX blower unit design and fabricated units



Other Accomplishments

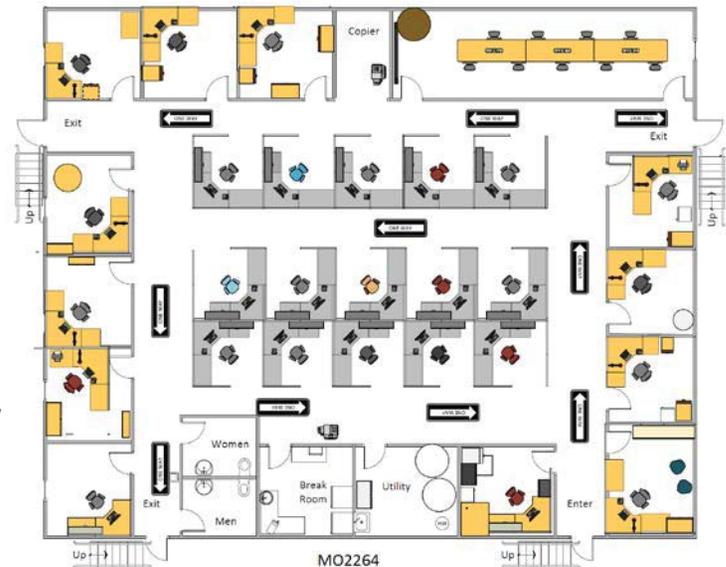
March 2020 through May 2020

- Developed return to work implementation plan and initiation of trailer modifications for social distancing
- Awarded grouting subcontract for stabilization of 216-Z-2, 241-Z-361, and 216-Z-9
- Modified radiological postings, established RMA for ERDF waste load out, and set-up for step-off-pad to support 203A, Acid Pump House characterization entries



Reconfigured conference room at REDOX to allow for social distancing

Redesigned configuration and flow path in MO-2264 to implement social distancing guidelines



Accomplishments

March 2020 through May 2020

Removal Action Documents

- Submitted to Regulators:
 - Z Cribs Time Critical Removal Action (TCRA) AM, Rev. 0 (Complete)
 - DOE/RL-2019-34 PUREX Complex: Hazard Abatement Including White Powder Within the 202A Building AM, Rev. 0 (Complete)
 - DOE/RL-2016-47 Tier 2 PUREX RAWP, Rev. 0 (Complete)
 - DOE/RL-2016-14 B-Plant EE/CA, Rev.0 for (Complete)
 - DOE/RL-2019-43 PUREX Complex: Hazard Abatement Including White Powder Within the 202A Building RAWP for Regulator Review
 - DOE/RL-2016-53 PUREX Complex Action Memorandum (AM) for Regulator Review
 - DOE/RL-2015-72 PUREX N RCRA Closure Plan (CP) for RL and Ecology Review
- Received from CHPRC:
 - PUREX Complex RAWP, Draft for RL Review
 - DOE/RL-2019-36 224T RAWP, DD for RL Review
 - DOE/RL-2019-37 224T SAP, DD for RL Review
- In Development Nearing Completion:
 - PUREX Complex SAP, Draft for RL Review
 - DOE/RL-2017-46 Tier 2 PUREX SAP pending Rev 0



Planned Activities for CPRM

June 2020 – August 2020

- Complete Phases 1, 2, and 3A in the return to work efforts from the Partial Site Work Stoppage due to COVID-19
- Complete public comment period on plans for stabilization of disposal structures at risk of failure
- Initiate the mockup for installation of the conveyance systems in 216-Z-2, 241-Z-361 and 216-Z-9 and perform investigations of each structure to obtain further information on the existing conditions.
- Resume activities of improving REDOX infrastructure to better facilitate entries into radiologically posted areas and continue reviewing governing documents to complete Phase I risk mitigation activities.
- Continue U-Plant characterization activities and container transfer area revisions to begin asbestos abatement.
- Restart the 200 East steam line abatement and pipe support demolition field work activities in late August.
- Complete all electrical isolations of 224B.



Planned Activities

June 2020 through August 2020

Canyon Stabilization Documents

- Regulator Approvals:
 - DOE/RL-2017-46 Tier 2 PUREX SAP, Rev.0 Issuance (EPA and Ecology)
- RL/Regulator Reviews:
 - DOE/RL-2016-53 PUREX Complex AM, Draft for Ecology Review
 - PUREX Complex RAWP, DD for RL Review
 - PUREX Complex SAP, DD for RL Review
 - DOE/RL-2015-72 PUREX N RCRA Closure Plan (CP) for Ecology Review
 - DOE/RL-2016-51 B Plant AM, DD for RL Review
 - DOE/RL-2019-36 224T RAWP, Draft for EPA Review
 - DOE/RL-2019-37 224T SAP, Draft for EPA Review



Milestone Summary

Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs			
M-016-255	9/30/2018	DOE shall complete the removal of all waste sites for fiscal year 2018 as identified in TPA change package M-16-16-01	Dispute resolution
M-016-250E	9/30/2020	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Action	On Schedule
M-016-256	9/30/2019	DOE shall complete the removal of all waste sites for fiscal year 2019 as identified in TPA change package M-16-17-01	Dispute resolution
M-085-00 Complete Response Actions for Specified Canyon Facilities & Waste Sites			
M-085-72	9/30/2020	Submit Removal Action Work Plan for 224B to Ecology	Complete 9/19/2019
M-085-100	9/30/2020	Submit Removal Action Work Plan for 224T to EPA	On Schedule



Project Baseline Performance through May 2020

Contract to Date

BS 040/RL-0040 Nuclear Facility D&D	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
BASE	315.5	303.9	314.4	(11.6)	(10.4)	331.2	343.4	(12.2)	0.96	0.97
ARRA	285.5	285.5	266.5	0	19.0	285.5	266.5	19.0	1.00	1.07
Total	601.0	589.4	580.9	(11.6)	8.6	616.7	609.9	6.8	0.98	1.01

Numbers are rounded to the nearest \$0.1M



TPA Decision Document List

	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory	Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
1	200-IS-1 200 Area Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS 1 OU to Ecology	11/30/2020	TBD	TBD	D. Hildebrand	D. St John	K. Welsch	Ecology	Not funded in FY20.
2	200-IS-1 200 Area Pipelines	TSD - Closure Plan for 241-CX Tank System (241-CX-70, 241-CX-71, 241-CX-72)	M-037-13: Complete Closure Requirements for 241-CX-70, 241-CX-71, and 241-CX-72	9/30/2024	TBD	TBD	M. Kamal	D. St John	K. Welsch	Ecology	241-CX Tank System: The Closure Plan was certified on September 3, 2019. This closure plan is part of the bulk certification group.
3	200-EA-1 200 East Closure Plans		M-037-10: Complete Closure for 6 Specified TSD Units	9/30/2020	On Going	On Going	M. Kamal	D. St John	K. Welsch	Ecology	216-A-368 Crib: The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on February 28, 2019. 216-A-37-1 Crib: The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on May 3, 2019. 216-A-29 Ditch: The Closure Plan was placed into 'freeze' status by Ecology on April 25, 2019. The Closure Plan is being revised to capture changes agreed to in the 216-B-63 Closure Plan. It will be bulk certified with the other closure plans. 216-B-63 Trench: The Closure Plan was placed into 'freeze' status by Ecology on April 20, 2020. It is ready for certification and is waiting for bulk certification with the other closure plans. Hexane Storage and Treatment Facility: Closure plan is undergoing comment resolution with Ecology. [[this is being done by RL-40]]
4	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	TSDs - Closure Plans for Z16-B-3 Main Pond and Z16-S-10 Pond and Ditch	M-037-11: Complete Closure Requirements for Z16-B-3 & Z16-S-10	9/30/2024	On Going	On Going	M. Kamal	D. St John	K. Welsch	Ecology	216-B-3 Main Pond: The Closure Plan was submitted to Ecology on June 20, 2019, for their confirm comment capture review. This Closure Plan is being revised to capture changes agreed to in the 216-B-63 Closure Plan. This closure plan is part of the bulk certification group. 216-S-10 Pond: The Closure Plan was submitted to Ecology on May 6, 2020 to be 'frozen.' It is ready for certification and is waiting for bulk certification with the other closure plans.
5	200-EA-1 200 East Inner Area	RFI/CMS & RI/FS Work Plan	M-015-92A: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-EA-1 OU to Ecology	7/31/2018	7/14/2018	8/16/2018	D. Hildebrand	D. St John	K. Welsch	Ecology	The Rev 0 RI/FS Work Plan has been prepared and comments resolved except for the schedule and associated TPA milestone. Finalization of the work plan is pending the Tentative Agreement negotiations and identification of a future TPA milestone. No change.
6	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5/PO-1 FS and PP	M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology.	Milestone Completed 3/27/2019	12/18/2018 3/28/2019	2/28/2019 5/13/2019	J.Hanson	C. Cearlock	K. Welsch	Ecology	The Feasibility Study and Proposed Plan are final. Public comment on the Proposed Plan will run from May 4 to July 8, 2020. A public meeting is scheduled for June 18, 2020.
7	200-CP-1, PUREX	RI/FS Work Plan	M-085-80: Submit Remedial Investigation/Feasibility Study Work Plan	9/30/2020	10/1/2020	11/1/2020	N. Jaschke	M. Doornbos	J. Temple	Ecology	This RI/FS Work Plan is on schedule to deliver the Draft A version to Ecology by September 30, 2020.
8	100-BC-1, 100-BC-2, 100-BC-5 100-B/C	RI/FS Report and Proposed Plan	M-015-79: Submit RI/FS Report and PP for 100-BC	Milestone Completed 12/15/2016	12/16/2016	01/30/2017	E. Glassbrenner	R. Evans	L. Buelow	EPA	Documents are complete. The proposed plan completed the public review period on December 9, 2019. Response to comments is underway.
9	100-KR-1, 100-KR-2, 100-KR-4 100-K	RI/FS Reports and Proposed Plan	M-015-66-T01: Submit RI/FS Report and PP for 100-K. Complete	Target Completed 9/21/2011			E. Glassbrenner	E. Feist	L. Buelow	EPA	The RI and FS have been separated to allow for a potential TI waiver to be pursued. EPA's comments have been resolved and the Draft Rev 0 RI was provided to EPA for review on February 6, 2020. EPA reviewed the Draft Rev 0 RI and provided comments back on April 2, 2020 and comments discussed and resolved on April 14, 2020. The Rev 0 RI is on hold until after EPA reviews the Draft B FS. The Draft B FS was transmitted to EPA on May 26, 2020 for 45 calendar day review.

Data through September 16, 2019

TPA Decision Document List

	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory	Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
10	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	RD/RAWP	None		1/24/2019	3/31/2019	J Sands	R. Evans	K. Welsch	Ecology	Continued resolution of Ecology's comments. The comment resolution period was extended to August 15, 2020.
11	100-NR-1, 100-NR-2 100-N	Ri/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for NR-1/2 Complete	Milestone Completed 6/24/2013	6/25/2013	10/2/2013	S. Balone	B. Faight	A. Boyd	Ecology	Transmitted the Draft B Ri/FS to Ecology for review on November 19, 2019. Ecology has extended the comment period to June 1, 2020. All indications are that they will make this date or perhaps need the full week of June 1, 2020 to be complete.

Data through September 16, 2019