

**Central Plateau/River Corridor  
Tri-Party Agreement Quarterly Milestone Review Meeting Minutes  
September 17, 2020**



**SIGNATURES:**

Approval: William F. Hamel Digitally signed by William F. Hamel  
Date: 2020.12.15 16:21:45 -08'00' Date: \_\_\_\_\_  
W.F. Hamel, DOE-RL Representative

Approval:  Digitally signed by DAVID EINAN  
Date: 2020.12.14 15:58:51 -08'00' Date: \_\_\_\_\_  
D.R. Einan, EPA Representative

Approval: Price, John (ECY) Digitally signed by Price, John (ECY)  
Date: 2020.12.14 13:54:13 -08'00' Date: \_\_\_\_\_  
J.B. Price, 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 2 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 LIFECYCLE COST REPORT**

MSA reported there are no significant activities currently happening with the lifecycle cost report and the one page milestone M-036-01 slide will be attached to the meeting minutes. EPA agreed there were no significant changes in regards to the milestone.

**3.0 RIVER CORRIDOR CLOSURE**

**3.1 324 Building**

DOE started the meeting by stating workers are back onsite after the site was temporary shut down due to hazardous air quality conditions stemming from the surrounding fires. Contract transitions were reported to begin on October 5, 2020. This will be transitioning the CHPRC contract to the Central Plateau Clean-up Company contractor. DOE reported that with contract transition, COVID-19, and Mother Nature, progress onsite may be slow and delayed.

DOE explained the 324 Building has limited activities due to the COVID-19 and limited personal protective equipment (PPE). The activities under way consist of essential mission-critical operations. As the site progresses in Phase 2 remobilization, more work will be able to continue.

DOE stated that the corrective action plan (CAP) implementation for the hazardous contamination that happened in November 2019 is under way. DOE has reconfigured the mock-up facility to support practical and performance demonstrations. The training team reported back in July 2020 and training will be done at the A-Cell dam.

DOE reported significant accomplishments including successful factory acceptance testing of the cell dams for the hot cells, the self-leveling device for waste box load out being ready for delivery, and continued equipment procurement/fabrication for B-Cell cleanout.

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DOE stated their planned actions between September 2020 through November 2020 will be to enter into Phase 2 of COVID-19 remobilization to finalize training materials on the general area contamination area (CA), initiate Phase 1 training, and initiate training material development for CA Phase 2.

### **3.2 100K Closure**

DOE reported testing on the vertical pipe casing (VPC) components was completed. The VPCs are being fabricated locally and in Texas. DOE described a picture of the auger fabrication and stated it will ship from Germany to Monroe, Texas, where the testing will occur.

DOE reported continuing demolition of the 166KE Fuel Storage Bunker. Demolition is expected to be completed in September 2020. DOE noted that there was an incident where rebar went through an excavator windshield. The windshield will be replaced with bulletproof glass.

DOE stated in the field remediation area, overburden removal and stockpiling of clean material at waste site 100-K-60 resumed July 7, 2020. DOE estimated getting back to work in the KW basin in the next few weeks and starting testing. DOE informed the Parties they will be preparing affidavits for Readiness Self-Assessment of the Garnet Filter Media Retrieval Systems and held a Hazard Review Board for Settler Tube Video Borescope, and performed a post-excavation civil survey at the 116-KE-2 waste site (in preparation of the verification sampling design).

DOE reported the 105-KE Interim Safe Storage (ISS) was sent out for bid, but they did not receive competitive numbers. A new split out bid was sent out and they are reviewing the proposals and hope for a path forward soon. DOE stated they are planning to finish demolition on the 166KE Fuel Storage Bunker followed by the 165KE Powerhouse.

DOE stated they are planning activities in support of the 100-K-99, 100-K47:1, 100-K47:2, 116-KE-2 and 100-K-60 waste site remediation.

### **3.3 Project Baseline Performance**

DOE reviewed the attachment slide with no new updates.

### **3.4 Milestone Summary**

DOE reported that there has been some delay due to COVID-19 and Milestone M-016-85A will have to be renegotiated and is now "At Risk." DOE also noted milestones that are at risk and stated that negotiations should start once the return to work takes place. Milestones include:

- 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-016-181, *Complete Deactivation, Demolition & Removal of 105-KW Fuel Storage Basin,*
- M-016-186, *Initiate Soil Remediation Under 105-KW Fuel Storage Basin,*
- M-016-00C, *Complete all response actions in the 100K Area, and*
- M-093-27, *Complete 105-KE & 105-KW Reactor ISS.*

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

#### **4.0 SOLID WASTE STABILIZATION AND DISPOSITION PROJECT**

##### **4.1 M-091-00**

DOE reported transuranic mixed waste/mixed low-level waste (TRUM/MLLW) shipments to Perma-Fix Northwest (PFNW) of 1,351 m<sup>3</sup> since August 2017. Milestone M-091-52-T01 has also been completed with the removal of 20 additional mixed waste containers from Outside Storage Area (OSA) A and/or OSA B. Milestone M-091-52-T04 removed 36 of 132 legacy large boxes from OSA.

DOE stated some upcoming activities include continued waste processing towards next objectives, continued negotiations for the M-091 milestone series, continued progress towards M-091-52-T03 to develop a mission needs statement regarding contact-handled (CH) processing facilities/capabilities, and submitting the Milestone M-091-03 Project Management Plan (PMP) to Ecology by September 30, 2020.

##### **4.2 M-092-00**

DOE noted work continues on the disposition path for cesium and strontium capsules. DOE reported that Ecology issued the revised the Waste Encapsulation and Storage Facility (WESF) Resource Conservation and Recovery Act (RCRA) Part B Permit for public comment, which includes capsule transfer activities. DOE resumed construction activities for the Capsule Storage Area (CSA) and the Maintenance and Storage Facility (MASF) mock-up facility.

DOE reported receiving the WESF modifications CD-2/3 package and are reviewing for approval. DOE stated significant progress was achieved on procurement/fabrication of the Cask Storage System (CSS) support equipment.

DOE stated they plan to complete concrete pour of the CSA pad, complete construction of the MASF mockup structure, issue the request for proposal for construction modifications to WESF, and continue fabrication of CSS equipment and construction activities. All activities will be completed by offsite vendors.

##### **4.3 M-026-00 Land Disposal Restrictions**

DOE reported the Calendar Year 2019 Hanford Site Mixed Waste Land Disposal Restrictions (LDR) Full Report was submitted by July 31, 2020, which completed Milestone M-026-01AD. DOE noted Ecology has changed project managers as of July 2020, and DOE may consider rewriting or replacing the LDR software. DOE informed the Parties that they will discuss adding additional milestones to help clarify recurring milestones at the next project managers' meeting.

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#### **4.4 Milestone Summary**

DOE reviewed the M-091 milestone summary page and indicated a change package is being negotiated and should be completed soon, so a tentative agreement can be signed. DOE reported both the cesium and strontium capsules and the land disposal restrictions summary report milestones are “On Schedule.”

#### **4.5 Project Baseline Performance**

DOE noted a large schedule variance due to the COVID-19 pandemic on the Project Baseline Performance slide.

Ecology noted they appreciated the continued movement of boxes out of the OSA.

### **5.0 CENTRAL PLATEAU REMEDIATION PROJECT**

#### **5.1 REDOX Risk Reduction**

DOE reported accomplishing installation of electrical services for REDOX’s Phase 1 corrective action to procure and install a doublewide trailer to support risk mitigation activities inside REDOX. DOE continued by saying they completed:

- Construction of the new REDOX temporary exhaust access road,
- 60 percent of the temporary exhaust’s balance of system design report milestone,
- Field survey and ground scans to support temporary exhaust balance of system tie-in locations, and
- The ultrasonic test on chemical lines from 211S to 202S to support cold and dark mechanical isolations.

#### **5.2 Central Plateau Remediation Project**

DOE stated their accomplishments included completing the fabrication of the conveyance system for Z-Crib stabilization and mockup of the Z-Crib stabilization conveyance system. DOE noted the demonstration of grout flowability and mix design for the 216-Z-2 Crib and 241-Z-361 Tank will be completed in October 2020 and the 216-Z-9 Crib will be completed in December 2020.

#### **5.3 Removal Action Documents**

DOE briefly reviewed the Removal Action Documents slide that included the update that the PUREX white powder Removal Action Work Plan (RAWP) has been signed and sent to Ecology. EPA provided an update for the REDOX documents, saying that they have provided a comprehensive RCR responses to DOE comments on the REDOX Sampling and Analysis Plan (SAP), but are still working on finding a few remaining answers to provide to DOE.

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**5.4 Central Plateau Remediation Project**

DOE reported a Phase 2, 3A, and 3B return to work is still a ways out due to COVID-19. DOE is currently working on infrastructure upgrades to better facilitate entries into radiologically posted areas, procuring and installing of 291-S power drop to support a temporary exhauster, installing a new REDOX container transfer area and completing U-Plant characterization and asbestos abatement. DOE stated that hazmat removal for the non-contaminated side of 224B is under way, although an updated document may be needed for the work.

**5.5 Canyon Stabilization Documents**

DOE reviewed the Canyon Stabilization Documents slide regarding the REDOX Complex. EPA requested a meeting to review all the facility status updates with EPA and Ecology. DOE confirmed they will schedule a follow-up meeting.

**5.6 West Area Remediation Project**

DOE stated that they are coordinating workers from PFP while in “stand-by” and progressing work at facilities adjacent to PFP, including characterization and trailer removal. DOE noted they temporarily down posted the PFP contamination area/airborne radiation area (CA/ARA) to a CA after discussions with Hanford workforce EM-HQ and Ecology. This will enable a more efficient deactivation of work trailers.

**5.7 Milestone Summary**

DOE reported Milestones M-016-255 and M-016-256 are both in “Dispute Resolution” and discussions are taking place with Ecology and EPA.

**5.8 Project Baseline Performance**

DOE reported no significant changes.

**6.0 SOIL AND GROUNDWATER REMEDIATION PROJECT**

**6.1 Accomplishments – Overall Site June 2020 - August 2020**

DOE reported completing all RCRA sampling for July and August 2020. All sampling crews are back in the field and the drilling crews are starting to re-mobilize. DOE noted that make up sampling will not take place and will be discussed at the PMMs. DOE stated they completed key performance goal for treatment of 2.2 billion gallons of groundwater on August 22, 2020. DOE added they are working to get to 2.4 billion gallons quickly.

**6.2 Accomplishments – River Corridor June 2020 – August 2020**

DOE reported completing the 300-FF-5 enhanced attenuation uranium sequestration completion report in August and it will be available for distribution after editing and clearance in the next 2

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weeks. DOE added that they had completed the soil flushing treatability test report for 100-K west head house. DOE stated they have submitted the Draft-A 100-NR-2 TI waiver document to EPA and Ecology for review as well as the 100-KR-4 waiver.

### **6.3 Accomplishments – Central Plateau June 2020 – August 2020**

DOE reported completing the decisional draft for the 200-CP-1 Remedial Investigation/Feasibility Study (RI/FS) Work Plan and will be submitting it for regulator review. DOE noted the approval of the Inter Agency Management Integration Team (IAMIT) Determination 2020-06 that documented the agreement to proceed on the Representative/Analogous Site Coordinating Agency Liaisons (RASCAL) team recommendations in June 2020. DOE reported establishing a new 200-IA-1 Operable Unit. DOE also gained approval of the Agreement in Principle (AIP) to negotiate the Fiscal Year 2018-2020 appropriations in conjunction with the RASCAL team recommendations for expediting remedial cleanup on the Hanford Central Plateau.

DOE continued by reporting the completion of the public comment period on the 200-BP-5/200-PO-1 Proposed Plan, transmittal of draft-A SAP for 200-DV-1 for increasing the perched water extraction to Ecology and EPA, receiving the approval of TPA change notice 0888, which updates the project schedule in the 200-DV-1 RI/FS Work Plan, and receiving a new Air Stripper Tower for the 200-West Pump & Treat.

Ecology asked for any additional project funding status that DOE may have for planning. DOE responded funding allocation has not been given for the following year and DOE will potentially know in October.

DOE reported working on closure plans for 216-B-3 and 216-A-29 to be updated for the next version of the RCRA Permit.

### **6.4 Milestone Summary**

DOE reported the M-015 series milestones noted as in “Dispute Resolution” and “At Risk” are in an AIP and will be negotiated in a holistic approach. Target date M-024-71-T01 for well commitments has been completed. DOE provided the status for Milestones M-085-70 and M-085-90 as being negotiated in an AIP.

### **6.5 RL-30 Project Baseline Performance**

DOE stated RL-30 is coming to the end of a contract period and shows a variance, but over a 10-year period, it comes in under budget and ahead of schedule.

### **6.6 Planned Activities September through November 2020**

DOE reported the status of M-024 well drilling activities for calendar year 2020 as complete. Drilling will be completed before the end of the calendar year. DOE reported their efforts in supporting EPA in resolving public comments and preparing the 100-BC-5 Record of Decision (ROD), resolving Ecology’s comments on the 100-HR-3 RD/RA Work Plan, resolving EPA’s

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comments on the Draft-B 100-KR-4 Feasibility Study, and dispositioning Ecology's comments on the Draft-B 100-NR-2 RI/FS document.

DOE requested initiating Central Plateau milestone negotiations. DOE reported submitting Draft-A 200-CP-1 RI/FS Work Plan by the end of September 2020. DOE reported their plan to submit the Draft-A for the 200-UP-1 I-129 TI waiver for EPA's review. DOE is also working on the comment responsiveness summary and interim action ROD for 200-BP-5/200-PO-1. DOE plans to issue the 200-ZP-1, 200-UP-1 RD/RA Work Plans and the 200-UP-1 Performance Monitoring Plan. DOE reported their plans to initiate preparation of 200-IA-1 Focused Feasibility Study, as well as certify and submit the 216-B3, 216-S-10, 216-A29 and 216-B-63 closure plans.

Ecology complimented DOE and the contractor team that worked on the Pond and Ditches for the closure plans. Ecology noted that the plans are waiting to be certified.

Ecology requested an annual budget briefing for Ecology and EPA. DOE responded they will take the action to schedule a briefing.

## **7.0 KEY DOCUMENTS LIST**

DOE noted the key document list was updated and the updates were shown in red font. Items of note were discussed in their individual sections of the agenda.

Ecology asked if the annual groundwater monitoring report comments have been answered. DOE responded they are currently considering Ecology's comments. EPA noted they are in the process of compiling their comments.

## **8.0 PLUTONIUM FINISHING PLANT CLOSURE**

### **8.1 Milestone**

DOE reported PFP has been maintained in a "Shutdown Mode" and there has been no spread of contamination. DOE noted Milestone M-083-00A was missed and work will resume once conditions permit.

### **8.2 Project Baseline Performance**

DOE reported they have been able to get through a review with Headquarters of a proposed re-baselining of the project (with schedule contingency and management reserve and other risks factored in) with a new end date of September 2021. However, DOE is planning to beat the schedule. DOE reported they have sufficient carry over budget to complete the project and noted that budget could be added if necessary.

Ecology asked if the budget is roughly \$25 million for 2021. DOE responded their budget is at \$17 million.

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**8.3 Status: Plutonium Finishing Plant**

DOE presented before and after photos of PFP progress.

**8.4 Plutonium Finishing Plant**

DOE reported PFP remaining work scope is planned to resume in Phase 3B of the Hanford Site COVID remobilization plan.

**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:

<b>No.</b>	<b>Quarterly Milestone Topic</b>	<b>Actions from 9/17/20 Meeting</b>
1	Solid Waste Stabilization and Disposition Project	DOE took the action to send to Ecology the change package or AIP extension for the M-091 milestone series.
2	Central Plateau Remediation Project	DOE took the action to schedule a status meeting with the Parties for the Hanford Site facilities.
3	Soil and Groundwater Remediation Project	DOE took the action to set up the annual funding briefing for the Parties.

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

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**10.0 LIST OF ATTENDEES**

Cline, Michael	DOE
Colton, Ingrid	DOE
French, Mark	DOE
Hamel, Bill	DOE
Higgins, Kathy	DOE
Ortiz, Shannon	DOE
Pyles, Gary	DOE
Teynor, Thom	DOE
Vannah, Benjamin	DOE
Price, John	Ecology
Deluna, Will	Ecology
Elsethagen, Kelly	Ecology
Goswami, Dib	Ecology
Howell, Theresa	Ecology
Mathey, Jared	Ecology
Menard, Nina	Ecology
Temple, John	Ecology
Welsch, Kim	Ecology
Wend, Chris	Ecology
Cameron, Craig	EPA
Einan, Dave	EPA
Brasher, Stephanie	MSA
Davis, Scott	MSA
Sisk, Rylie	MSA
Fergusson, Aaron	MSA
Bergman, Theresa	CHPRC
Shelley Cimon	ODOE



## **AGENDA**

### ***Tri-Party Agreement Central Plateau/River Corridor Milestone Review September 17, 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-016, 089, 093, 094	100 K Remediation/River Corridor Closure	Mark French
9:20 a.m.	M-091, 092, 026	Acquisition of Facilities to treatment, storage, and disposal (TSD), transuranic (TRU), transuranic mixed (TRUM) and low-level mixed waste (LLMW) and Land Disposal Restrictions	Mark French
9:35 a.m.	M-016, 037, 085	Central Plateau Remediation	Mark French
9:50 a.m.	M-015, 016, 024, 085	Soil and Groundwater Remediation	Mike Cline
10:10 a.m.	-	Richland Operations Office Key Documents List	Mike Cline
10:20 a.m.	M-083	Plutonium Finishing Plant (PFP) Closure	Tom Teynor
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: September 17, 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.

# River Corridor Closure

June 2020 - August 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



September 17, 2020

# 324 Building

- COVID-19 response has limited facility activities:
  - Essential mission-critical operations maintained
  - Limits to the number of workers allowed on-site impacted training for resumption from contamination event
  - Supply chain impacts limit PPE availability and restricts activities in contamination areas
  - Project is now exiting COVID Phase 1d
- CAP Implementation
  - Reconfigured Mock-Up Facility to support CA/HCA/ARA Training practical and performance demonstration.
  - CA/HCA/ARA Training team reported back to site 7/20/2020
  - Preparing test plan for testing and training for A-Cell dam installation at Mock-Up and MASF
  - Preparing facility for balance of workers return



ARA	=	Airborne Radiation Area
CA	=	Contamination Area
CAP	=	Corrective Action Plan
HCA	=	High Contamination Area
MASF	=	Maintenance and Storage Facility
PPE	=	Personal Protective Equipment

RL-41



# 324 Building

## Significant Accomplishments (June 2020 through August 2020)

- Successfully completed Factory Acceptance Test of the cell dams for the hot cells
- The self-leveling device for waste box loadout is ready for delivery
- Equipment procurement/fabrication for B Cell cleanout continues:
  - Universal cutting tool
  - Water delivery system for the airlock
  - Modified airlock rail
  - Waste bins and waste containers for the 324 Building
  - B Cell 10-ton crane



A Cell lower Dam being lifted into the test frame as part of the Factory Acceptance Test.



A Cell Mid Dam placed on top of the Lower Dam in the test stand at Hi Line Fabricating as part of the Factory Acceptance Test.



# 324 Building

## Planned Actions (September 2020 through November 2020)

- Entering COVID Phase 2 allows for additional activities:
  - Finalize training materials on general area CA/HCA work (CA Phase 1)
  - Initiate CA Phase 1 Training
  - Initiate training material development for CA Phase 2 for CA/HCA/ARA work in Room 18 in September
- Pending approval of additional on-site personnel and PPE availability:
  - Begin execution of CA Phase 1 activities (anticipated late October)
  - Resume Room 18 CA Phase 2 activities (late November)
  - Resume Airlock CA Phase 3 activities (early 2021)

Contamination Event Corrective Action Phases are separate from COVID Phases

- CA Phase 1 = General area CA/HCA/ARA resumption
- CA Phase 2 = Room 18 CA/HCA/ARA resumption
- CA Phase 3 = Airlock Resumption



# 100K Closure

## Significant Accomplishments (June 2020 through August 2020)

- Testing of fabricated Vertical Pipe Casing components was completed, and required modifications are expected to complete in August



Testing of the two fabricated VPC hydraulic units and tipping assemblies



# 100K Closure

## Significant Accomplishments (cont.) (June 2020 through August 2020)

- The auger demonstration contractor completed fabrication of the special auger tool and shipment from Germany to Monroe, TX, where the testing will occur.



# 100K Closure

## Significant Accomplishments (cont.) (June 2020 through August 2020)

- Continued demolition of the 166KE Fuel Storage Bunker. Demolition is expected to complete in September.



# 100K Closure

## Significant Accomplishments (cont.) (June 2020 through August 2020)

- Overburden removal and stockpile of clean material at waste site 100-K-60 resumed July 7, 2020.



# 100K Closure

## **Significant Accomplishments (cont.) (June 2020 through August 2020)**

- The KBO team began preparing affidavits for Readiness Self-Assessment of the Garnet Filter Media Retrieval System (GFMRS).
- Held a Hazard Review Board for Settler Tube Video Borescope Inspection, and team is addressing comments from HRB.
- A final post-excavation civil survey was performed at the 116-KE-2 waste site, and will be used in the preparation of the verification sampling design.



# 100K Closure

## **Planned actions (September 2020 through November 2020)**

### **105-KW Basin Deactivation**

- 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 hands-on/in-field training of GFMR operations personnel.
- Complete fabrication and receipt of skid mounted electrical substation.

### **105-KE Interim Safe Storage**

- Review proposals for 105-KE Reactor ISS/SSE construction.

### **Demolition**

- Complete demolition of 166KE Fuel Storage Bunker.
- Initiate demolition of 165KE Powerhouse.



# 100K Closure

## Planned actions (through November 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 August 2020

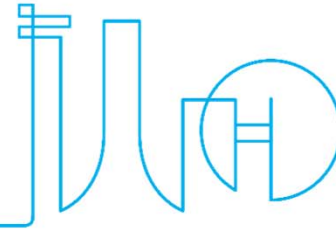
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	795.9	769.7	771.6	(26.2)	(1.8)	808.2	812.4	(4.2)
Numbers are rounded to the nearest \$0.1 million.								



# Milestone Summary

Milestone	Due Date	Description	Status
<b>M-016</b>			
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	<del>On Schedule</del> At Risk
M-016-186	12/31/2023	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	<del>On Schedule</del> At Risk
M-016-00C	9/30/2024	Complete all response actions in the 100K Area	At Risk
<b>M-093</b>			
M-093-27	9/30/2024	Complete 105-KE & 105-KW reactor ISS in accordance with removal action work plan	At Risk
M-093-27-T01	09/30/2021	Initiate earthwork for construction of the 105KE Safe Storage Enclosure	On Schedule
M-093-27-T02	TBD	Complete preparation of the 105-KW Reactor Building for Interim Safe Storage by removing liquids and accessible hazardous and controlled materials in accordance with the Removal Action Work Plan	TBD
M-093-27-T03	TBD	Initiate earthwork for construction of the 105KW Safe Storage Enclosure	TBD





# Solid Waste Stabilization and Disposition Project

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

June 2020 – August 2020

September 17, 2020



U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

*Columbia River White Bluffs*



# M-091-00

## Accomplishments (June 2020 – August 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.
- M-091-52-T04 removed 36 of 132 legacy large boxes from OSA



TC184 Glovebox Size reduction and repackaging at Perma-Fix Northwest



# M-091-00

## **Planned Activities (September 2020 – November 2020)**

- TRUM/MLLW Treatment
  - Continue waste processing toward next objective.
  - Complete 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.
  - Submit M-091-03 Project Management Plan (PMP) to Ecology by September 30, 2020.



# M-092-00

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

- **June 2020 – August 2020 Accomplishments:**

- Ecology issued the Revised WESF RCRA Part B Permit for Public Comment to include Capsule Transfer Activities.
- Resumed Construction Activities for the CSA and MASF Mockup Facility.



Capsule Storage Pad Formwork



G Cell Mockup – Operations Gallery View

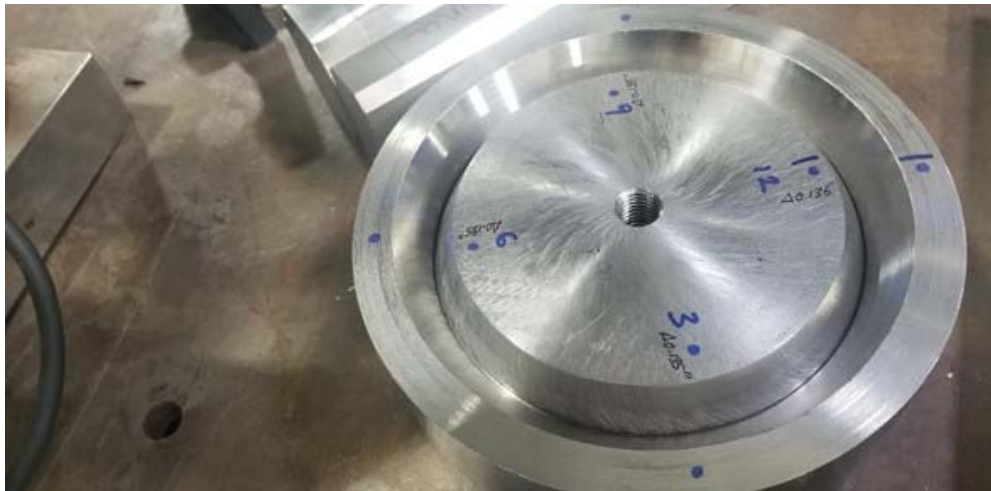
CSA	=	Capsule Storage Area
CSS	=	Cask Storage System
MASF	=	Maintenance and Storage Facility
MCSC	=	Management of the Cesium & Strontium Capsules Project
WESF	=	Waste Encapsulation & Storage Facility



# M-092-00

- **June 2020 – August 2020 Accomplishments (continued):**

- The MCSC Project submitted the WESF Modifications CD-2/3 Package to RL for review and approval.
- Significant Progress was achieved on Procurement/Fabrication of CSS Support Equipment. Pictured below are welding mockups at Liburdi Corporation.



TSC Port Cover Mockup



Automated Welder Mockup

- **September 2020 Planned Activities:**

- Complete Concrete Pour of CSA Capsule Storage Pad.
- Complete Construction of MASF Mockup Structure.
- Issue the RFP for Construction Modifications to WESF.
- Continue Fabrication of CSS equipment and Construction activities.



# M-026-00 Land Disposal Restrictions

The *CY2019 Hanford Site Mixed Waste Land Disposal Restrictions (LDR) Full Report* was submitted to Ecology for review July 30, 2020.

- Completed Milestone M-026-01AD.
- Ecology project managers changed in July (Elsethagen/Soto to Mathey/Conaway/Rogers).
- DOE may consider rewriting or replacing the LDR software.



# Milestone Summary

Milestone	Due Date	Title	Status
<b>M-091</b>			
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	In Abeyance
M-091-44T	9/30/2020	Submit Change Package to Establish Schedule for Achieving Offsite Shipment of All TRUM Waste	In Abeyance
M-091-49A	9/30/2020	Submit a Change Request to Establish a Schedule for Achieving the Retrieval of RSW	In Abeyance
M-091-52-T01C	11/30/2020	Remove 20 Additional Mixed Waste Containers from Outside Storage Area A and/or B	Complete
<b>M-092</b>			
M-092-20	03/31/2022	Submit a Disposition Pathways Evaluation for the Cesium and Strontium Capsules	On Schedule
<b>M-026</b>			
M-026-01AE	04/30/2021	Submit Hanford Land Disposal Restrictions Summary Report (for 2020)	On Schedule



# Project Baseline Performance through August 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	1,066,674.3	1,047,421.4	982,328.8	(19,252.9)	-1.8%	65,092.6	6.2%	1,079,312.0	1,014,977.8	64,334.2
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	188,850.5	188,068.1	151,868.0	-0.4%	19.2%
Capsule Storage & Disposition	120,521.4	120,389.7	129,228.2	-0.1%	-7.3%
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	127,425.8	126,679.4	121,253.1	-0.6%	4.3%
Waste Receiving and Processing Facility	63,326.7	63,326.7	61,432.6	0.0%	3.0%
T Plant	166,639.7	164,384.0	140,556.1	-1.4%	14.5%
Central Waste Complex	139,126.9	137,849.5	133,352.0	-0.9%	3.3%
TRU Disposition	35,206.5	35,301.8	26,593.8	0.3%	24.7%
Mgmt of Cesium and Strontium Capsules Proj W-135	27,101.6	22,992.5	24,250.2	-15.2%	-5.5%
Capsule Interim Storage Operations	54,929.2	44,924.7	44,031.0	-1.8%	6.2%



# Central Plateau Remediation Project

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

June 2020– August 2020  
August 20, 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 (June 2020 through August 2020)

- Completed installation of electrical services for REDOX's Phase 1 corrective action to procure and install a double-wide trailer to support risk mitigation activities inside REDOX.
- Completed construction of the new REDOX temporary exhauster access road
- Completed 60 percent of the temporary exhauster's balance of system design report milestone
- Completed field survey and ground scans to support temporary exhauster balance of system tie-in locations
- Ultrasonic test performed on chemical lines from 211S to 202S to support cold and dark mechanical isolations



Ongoing efforts to support fabrication of temporary exhausters filter housing and duct work



RL-40

# Central Plateau Remediation Project

## Accomplishments (June 2020 through August 2020)

- Completed fabrication of conveyance system for Z-Crib stabilization.
- Completed mockup of the Z-Crib stabilization conveyance system.
- Completed demonstration of grout flowability and mix design for the 216-Z-2 and 216-Z-9 Cribs and the 241-Z-361 Tank.
- Completed mock-up demonstration of the 241-Z-361 grout fill
- Completed electrical isolation of the 224B Concentrator facility.



Aging structures team demonstrates grout flowability mix design at American Rock



EU removes transformer, cable and components near 224B



# Removal Action Documents

## Accomplishments & Status (June 2020 through August 2020)

- Submitted to Regulators:

- Z Cribs Time Critical Removal Action (TCRA) Action Memorandum (AM), Public Comment Period (Complete)
- DOE/RL-2017-46 PUREX Complex Tier 2 Sampling and Analysis Plan (SAP), Rev 0 (Complete)
- DOE/RL-2019-43 PUREX White Powder Removal Action Work Plan (RAWP) pending Rev. 0
- DOE/RL-2017-06 REDOX Complex RAWP, Rev. 1 for EPA Review
- DOE/RL-2017-05 REDOX Complex SAP, Rev. 1 for EPA Review
- DOE/RL-2018-46 REDOX Complex Air Monitoring Plan (AMP), Rev. 1 for EPA Review
- DOE/RL-2019-36 224T RAWP Draft for EPA Review (*M-085-100 complete 8/20/2020*)
- DOE/RL-2019-37 224T SAP Draft for EPA Review
- DOE/RL-2016-53 PUREX Complex AM Draft for Regulator Review of Comments Disposition
- DOE/RL-2015-72 PUREX N RCRA Closure Plan for Ecology Review of Comment Disposition
- DOE/RL-2016-14 B Plant Engineering Evaluation/Cost Analysis Rev. 0 out for Public Comment

- Received from CHPRC:

- DOE/RL-2016-51 B Plant AM Draft for RL Review
- DOE/RL-2020-05 PUREX Complex SAP Draft for RL Review
- DOE/RL-2020-04 PUREX Complex RAWP Draft for RL Review

- In Development Nearing Completion:

- DOE/RL-2020-40 PUREX Complex AMP for RL Review



# Central Plateau Remediation Project

## Planned Activities (September 2020 – November 2020)

- Complete Phases 2, 3A, and 3B in the return to work efforts from the Partial Site Work Stoppage due to COVID-19
- Complete REDOX infrastructure upgrades to better facilitate entries into radiologically posted areas and continue reviewing governing documents to complete REDOX Phase II risk mitigation activities.
- Complete procurement and installation of 291-S power drop to support temporary exhausters.
- Complete installation of new REDOX's Container Transfer Area.
- Complete medium hazard mechanical Isolations at REDOX and all mechanical isolations at 224B to support cold and dark.
- Complete U-Plant characterization and asbestos abatement.
- Complete asbestos removal, characterization, and hazmat removal for the non-contaminated side of 224B.
- Complete fabrication of conveyance system and ventilation for 216-Z-2, 216-Z-9 cribs and 241-Z-361 tank.
- Complete site preparations, conveyance system installation, and stabilization of 216-Z-2 crib and 241-Z-361 tank; initiate stabilization of 216-Z-9.



# Canyon Stabilization Documents

## Planned Activities (September 2020 – November 2020)

### – Regulator Approvals:

- DOE/RL-2017-06 REDOX Complex RAWP Rev. 1 (EPA)
- DOE/RL-2017-05 REDOX Complex SAP Rev. 1 (EPA)
- DOE/RL-2018-46 REDOX Complex AMP Rev. 1 (EPA)
- DOE/RL-2016-53 PUREX Complex AM Rev. 0 (Ecology)

### – RL/Regulator Reviews:

- DOE/RL-2020-04 PUREX Complex RAWP Draft (Ecology)
- DOE/RL-2020-05 PUREX Complex SAP Draft (Ecology and EPA)
- DOE/RL-2016-51 B Plant AM Draft (Ecology)
- DOE/RL-2019-36 224T RAWP Draft (EPA)
- DOE/RL-2019-37 224T SAP Draft (EPA)



# West Area Remediation Project

## Accomplishments (June 2020 through August 2020)

- Performed planning activities for hazard material removal and electrical and mechanical isolation work packages related to planned demolition of the PFP south trailer village, 234-5Z-BA, 234-5Z-BE and 216-ZP-1 structures.
- Temporarily Down posted the PFP CA/ARA to a CA after discussions with Hanford workforce EM-HQ and Ecology. This will enable a more efficient deactivation of work trailers. The PFP CA/ARA boundary will be re-established prior to resuming work at PFP.



RL-40

# West Area Remediation Project

## **Accomplishments (June 2020 through August 2020)**

(continued)

- Crews began debris removal and setup around 234-5Z-BA, 234-5Z-BE and 216-ZP-1.
- Performed radiological, asbestos, beryllium characterization of south trailer village, boiler buildings, and ZP1 pump and treat
- Planning for low radiological hazard demolition of same

## **Planned activities (September 2020 through November 2020)**

- Continue with demo prep and planning for demolition of low hazard buildings



# Milestone Summary

Milestone	Due Date	Description	Status
<b>M-016-00 Complete Remedial Actions For All Non-Tank Farm &amp; Non-Canyon OUs</b>			
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
<b>M-085-00 Complete Response Actions for Specified Canyon Facilities &amp; Waste Sites</b>			
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	Complete 8/20/2020



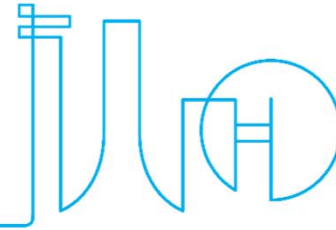
# Project Baseline Performance through August 2020

## Contract to Date

<b>BS 040/RL-0040 Nuclear Facility D&amp;D</b>	<b>Budgeted Cost of Work Scheduled</b>	<b>Budgeted Cost of Work Performed</b>	<b>Actual Cost of Work Performed</b>	<b>Schedule Variance (\$)</b>	<b>Cost Variance (\$)</b>	<b>Budget at Completion (BAC)</b>	<b>Estimate at Completion (EAC)</b>	<b>Variance at Completion (VAC)</b>	<b>SPI</b>	<b>CPI</b>
BASE	344.5	322.0	340.5	(22.5)	(18.4)	357.1	386.0	(28.9)	0.93	0.95
ARRA	285.5	285.5	266.5	0	19.0	285.5	266.5	19.0	1.00	1.07
<b>Total</b>	<b>630.1</b>	<b>607.5</b>	<b>607.0</b>	<b>(22.5)</b>	<b>0.6</b>	<b>642.6</b>	<b>652.5</b>	<b>9.9</b>	<b>0.96</b>	<b>1.00</b>

Numbers are rounded to the nearest \$0.1M





## 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

*June 2020 – August 2020*



# Accomplishments – Overall Site June 2020 – August 2020

- Completed all RCRA sampling for July and August. All sampling crews are back in the field. Drilling crews are starting to re-mobilize.



- Completed Key Performance Goal for treatment of 2.2 Billion gallons of groundwater on August 22.



# Accomplishments – River Corridor

## June 2020 – August 2020

- Completed the 300-FF-5 enhanced attenuation uranium sequestration completion report. The report will be available for distribution after final editing and clearance.
- Completed the soil flushing treatability test report for 100-K West Head House. The report will be available for distribution after final editing and clearance.
- Submitted the Draft A, 100-NR-2 TI Waiver document, (DOE/RL-2018-44), on August 10, 2020 to EPA and Ecology for review.
- Transmitted the 100-KR-4 TI Waiver document (DOE/RL 2018-43 Draft D) to RL and EPA for review.



# Accomplishments – Central Plateau

## June 2020 – August 2020

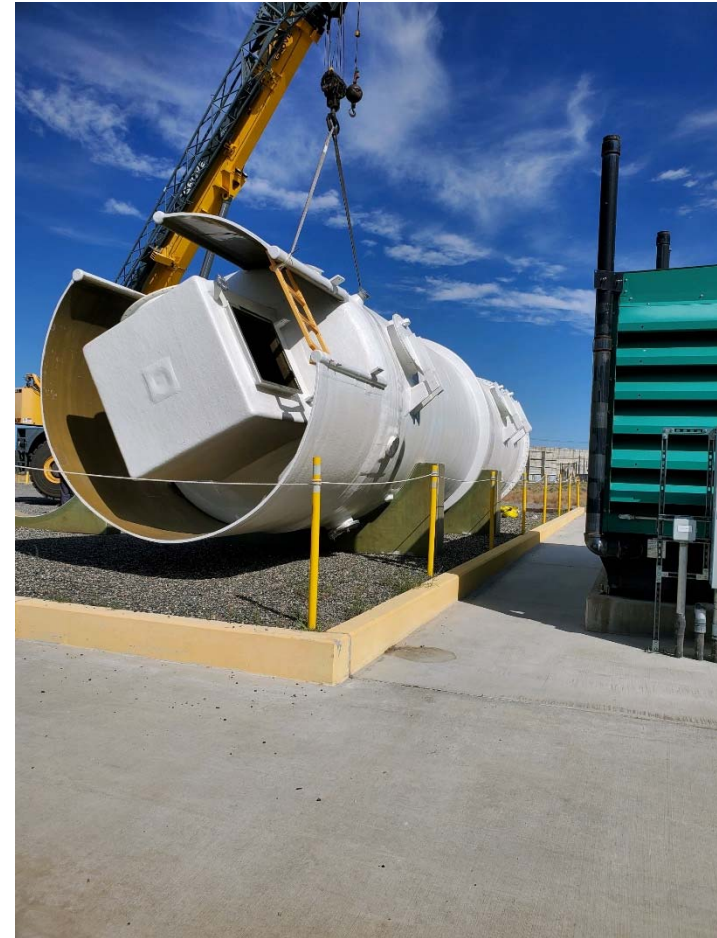
- Completed Decisional Draft, 200-CP-1 (PUREX) Remedial Investigation/ Feasibility Study Work Plan for DOE review on July 16, 2020.
- Approved the IAMIT Determination 2020-06 which documented agreement to proceed on the representative/analogous site coordinating agency liaisons (RASCAL) team recommendations on June 18, 2020.
- Approved TPA Change Control Form C-20-02 which established the 200-IA-1 OU and assigned waste sites to it from 200-WA-1 and 200-EA-1 on August 11, 2020.
- Approved the AIP in response to FY 2018-2020 appropriations in conjunction with the RASCAL team recommendations for expediting remedial cleanup on the Hanford Central Plateau on August 25, 2020.



# Accomplishments – Central Plateau

## June 2020 – August 2020

- Completed the public review of the 200-BP-5/200-PO-1 Proposed Plan July 8, 2020.
- Transmitted Draft A SAP (DOE/RL-2019-42) defining future 200-DV-1 perched water extraction well locations to Ecology/EPA for review.
- Approved TPA-CN-0888 which updates the project schedule in the 200-DV-1 RI/FS Work Plan to add information about the supplemental characterization activities on August 19, 2020.
- Received new Air Stripper Tower for 200 West P&T on August 24, 2020.



200 West P&T Air Stripper Tower



# Accomplishments – Central Plateau

## June 2020 – August 2020

- **Closure Plans**

- **216-B-3:** Provided Closure Plan with changes that are consistent with RL and Ecology discussions and agreements for Ecology to confirm comment capture on August 6, 2020.
- **216-A-29:** Reopened previously frozen Closure Plan at Ecology's request to incorporate changes that would provide consistency with 216-B-3, 216-B-63 and 216-S-10. Provided Closure Plan with changes that are consistent with RL and Ecology discussions and agreements for Ecology to confirm comment capture on August 6, 2020.



# Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
<b>M-015-00</b>			
M-015-93C***	9/30/2018	Initiate characterization of the 200-SW-2 OU landfills	Dispute Resolution**
M-015-97	1/15/2021	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 RI/FS and CMS Work Plan for 200-IS-1 Work Plan to Ecology	At Risk
M-015-92B***	11/30/2022	Submit RI/FS & CMS Report and PCAD/PP for 200-EA-1 to Ecology	At Risk
M-015-92C***	3/31/2023	Submit RI/FS & CMS 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 included in the *Agreement In Principle for the Negotiation Of Hanford Federal Facility Agreement and Consent Order (HFFACO) Revisions in Response to Federal Fiscal Year (FFY) 2018-2020 Appropriations in Conjunction with the Representative Analogous Site Coordinating Agency Liaisons (RASCAL) Recommendations (Interagency Management Integration Team (IAMIT) Determinaton 2020-006) for Expediting Remedial Cleanup on the Hanford Central Plateau.*



# Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
<b>M-024-00</b>			
M-024-71-T01	8/1/2020	Conclude Discussions of Well Commitments initiated under M-024-58	Completed 7/23/2020
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
<b>M-085-00</b>			
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

\* Milestone included in the *Agreement In Principle for the Negotiation Of Hanford Federal Facility Agreement and Consent Order (HFFACO) Revisions in Response to Federal Fiscal Year (FFY) 2018-2020 Appropriations in Conjunction with the Representative Analogous Site Coordinating Agency Liaisons (RASCAL) Recommendations (Interagency Management Integration Team (IAMIT) Determinaton 2020-006) for Expediting Remedial Cleanup on the Hanford Central Plateau.*



# RL-30 Project Baseline Performance

Contract to Date Through August 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)
<b>Total</b>	1744.4	1720.7	1670.2	-23.7	-1.4%	50.5	2.9%	1,755.1	1700.8	54.4
Numbers are rounded to the nearest \$0.1 million.						Period of performance 10/1/2008 through August 2020				



# Planned Activities

## September through November 2020

- Complete M-024 well drilling activities for calendar year 2020

### **River Corridor**

- Support EPA in resolving the public comments and prepare 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 Feasibility study.
- Disposition Ecology's comments on the Draft B 100-NR-2 RI/FS, as well as the TI Waiver document.

### **Central Plateau**

- Initiate Central Plateau milestone negotiations
- Submit Draft A, 200-CP-1 (PUREX) Remedial Investigation/ Feasibility Study Work Plan and complete Ecology Review.



# Planned Activities

## September through November 2020

### Central Plateau

- Submit the Draft A 200-UP-1 I-129 TI waiver for EPA review.
- Support EPA/Ecology in development of the 200-BP-5/PO-1 comment responsiveness summary and interim action ROD.
- 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.
- Initiate preparation of 200-IA-1 Focused Feasibility Study (FFS)
- 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 216-A-29 Ditch Closure Plan.
- Certify and submit the 216-B-63 Trench Closure Plan.

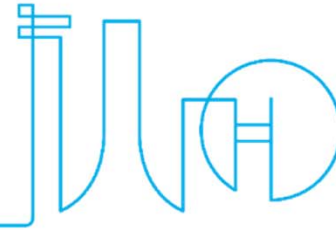


TPA Decision Document List

	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	<b>241-CX Tank System:</b> 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	<b>216-A-36B Crib:</b> The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on February 28, 2019. <b>216-A-37-1 Crib:</b> The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on May 3, 2019. <b>216-A-29 Ditch:</b> 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 and was resubmitted to Ecology on August 5, 2020, for their confirm comment capture review. It will be bulk certified with the other closure plans. <b>216-B-63 Trench:</b> 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. <b>Hexone Storage and Treatment Facility:</b> 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 216-B-3 Main Pond and 216-S-10 Pond and Ditch	M-037-11: Complete Closure Requirements for 216-B-3 & 216-S-10	9/30/2024	On Going	On Going	M. Kamal	D. St John	K. Welsch	Ecology	<b>216-B-3 Main Pond:</b> The Closure Plan was resubmitted to Ecology on August 5, 2020, 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. <b>216-S-10 Pond:</b> The Closure Plan was placed into 'Freeze' status by Ecology on May 7, 2020. 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. This RI/FS Work Plan was placed on hold pending agreement to the RASCAL analogous site approach and is scheduled for the initiation of revisions during FY21
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	Work continues on preparing responses to public comments from the public comment period for the Proposed Plan.
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	11/29/2020	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. Review duration adjusted to 60 days for a RI/FS work plan.
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. Glossbrenner	R. Evans	L. Buelow	EPA	Documents are complete. The proposed plan completed the public review period on December 9, 2019. Response to public 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. Glossbrenner	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 RL 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. EPA has requested an extension on their reiew of the FS until August 21, 2020.

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	A. Boyd	Ecology	Continued resolution of Ecology's comments. The comment resolution period was extended to September 30, 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. Faught	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. Work continues on resolution of Ecology comments.



## PFP Closure Project, June – August 2020

### TPA Milestone Series: M-083



*Plutonium Finishing Plant Complex – May 2020*



**September 17, 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 August 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)
<b>Total</b>	\$1,143.6	\$1,129.9	\$1,243.2	(\$13.7)	(1.2%)	(\$113.3)	(10.0%)	\$1,143.6	\$1,253.9	(\$110.4)

## Fiscal Year to Date (Through August 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 (%)
<b>Total</b>	\$21.6	\$21.2	\$38.6	(\$0.4)	(1.6%)	(\$17.4)	(82.0%)



# Status: Plutonium Finishing Plant



# Plutonium Finishing Plant

## Accomplishments (June 2020 through August 2020)

- Maintained the PFP footprint in a safe, stable state
- Continued preparations to resume and complete the PFP project with appropriate COVID-19 prevention protocols in place
- Temporarily Down posted the CA/ARA to a CA after discussions with Hanford workforce EM-HQ and Ecology. This will enable a more efficient deactivation of work trailers. The CA/ARA boundary will be re-established prior to resuming work in the HCA/ARA
- Shipped 41 containers of PRF debris (loaded prior to work pause) to ERDF, performed housekeeping (tumbleweeds and silt fence), and hazardous material disposition

## Planned activities (September 2020 through November 2020)

- The remaining PFP work scope is planned to resume in remobilization Phase 3B

CA/ARA = Contamination Area/Airborne Radiation Area  
CE-SPA = Contaminated Equipment-Special Packaging Authorization  
HCA/AA = High Contamination Area/Airborne Radiation Area

