



Tri-Party Agreement

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

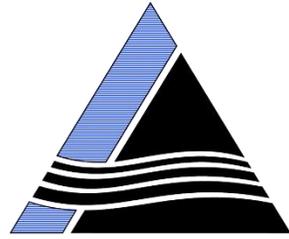
SIGNATURES:

Approval:  Date: 12/26/19
W.F. Hamel, DOE-RL Representative

Approval:  Date: 1/9/2020
D.R. Eihlan, EPA Representative

Approval:  Date: 1/8/2020
A.K. Smith, Ecology Representative

Central Plateau/River Corridor
 Tri-Party Agreement Quarterly Milestone Review Meeting Minutes
 June 20, 2019



Tri-Party Agreement

U.S. Department of Energy
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Alex Smith	Ecology
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1.0 INTRODUCTION

The Central Plateau/River Corridor meetings are normally held quarterly between the U.S. Department of Energy, Richland Operations Office (DOE-RL), Washington State Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA), hereafter referred to as the Parties.

2.0 LIFECYCLE COST REPORT

MSA reported the one page briefing for the Lifecycle Cost Report (LCR) will be included in the final Administrative Record (AR) package. There will be no DOE-RL briefing provided at this time. MSA noted that DOE received the Lifecycle Cost Report comments and the next Project Managers Meeting (PMM) is scheduled for July 2019.

3.0 M-035 DATA ACCESS

DOE-RL recapped that M-035 is a biannual assessment of data access needs. DOE-RL confirmed the next iteration of the milestone is due March of 2020. DOE-RL reported they are reviewing what TPA-relevant data information has been reported and shared, and stated they are working with Ecology on understanding what data information is important to them.

Ecology stated they have reviewed the data list that was provided and are working with DOE-RL on paring the list down. Ecology also noted that milestone M-035-09K could be closed if the milestone was restored in the TPA and an implementation schedule was provided for data access to TPA-related databases.

DOE-RL stated that the first part of the Milestone “Conduct biennial assessments” has been completed, and the second part, creating an implementation schedule, can only be done once a data access list is agreed upon. DOE-RL proposes to create an easy list that can be used as a test pilot. This will be followed by the hard list, which includes contractor direction and flagging identified TPA documents.

Ecology emphasized that both Parties want the milestone closed and both will continue progress towards data access. DOE agreed with Ecology.

4.0 PLUTONIUM FINISHING PLANT CLOSURE

DOE-RL provided a handout to the Parties for their review, in regards to the status update of the Plutonium Finishing Plant (PFP). DOE-RL also noted since there will be no briefing on PFP, an additional briefing can be provided to the Parties if requested. The handout will be included in the final submitted package to the AR.

Ecology stated that they are receiving good and timely information from DOE-RL on PFP.

5.0 100 K REMEDIATION/RIVER CORRIDOR CLOSURE

5.1 K Basins Sludge Removal Project

DOE-RL reported K Basin sludge removal of Sludge Transport and Storage Containers (STSC) #15 has shipped to T Plant the week of June 10, 2019, and #16 is full and will ship the week of June 24, 2019. DOE-RL is projecting 22 STSCs will be filled and shipped by the end of September.

DOE-RL stated 15-20 Engineered Container Retrieval and Transfer System (ECRTS) will be processed. It was explained that both bulk and end point criteria inspections, where they remove the tops, will take place and the goal is to complete it by September.

5.2 300-296 Soil Removal

DOE-RL provided detail that the first pilot-hole for the structural supports for B-Cell has been completed to the 31' depth on June 12, 2019. Contaminated soil was found and is being controlled. The second pilot hole has also been started. DOE-RL continued that 7 B-Cell cameras have been installed, factory acceptance testing for water delivery system has been completed, and waste box shielding for B-Cell containers is completed. In addition, the door seal between C and D-Cell has been removed to easily lower soil bins between the cells, C-Cell external sealing has been reinitiated to plug all the holes, 324 building ventilation test is completed, and DOE initiated B-Cell debris removal that will be shipped to Environmental Restoration Disposal Facility (ERDF).

DOE-RL continued with significant accomplishments, reporting all geoprobe removal (35') has been completed as of May 2019. There were five sections of the pipe that remain in the soil excavation, which is reported as not optimal, but the path forward is to use an excavator that is able to cut through the pipes during removal. DOE-RL have started grout chipping in B-Cell and have tested grout pad removal in the mockup with success. DOE-RL stated they installed the floor saw from the mockup on April 24, 2019. The floor saw was operational for two weeks until mechanical failure took place during testing (failure analysis is still pending).

DOE-RL forecasted grout should be removed from the southeast and southwest quadrants of B-Cell between June and August, followed by floor cutting starting in August, with the debris going to ERDF. Four micropiles should also be completed at this time, DOE-RL reported.

5.3 Project Baseline Performance

DOE-RL stated they are 13 million dollars behind in schedule variance and under budget 34.3 million dollars in cost variance for K Basins.

5.4 Milestone Summary

DOE-RL notified the parties that milestones M-016-00B and M-094-00 are completed and there are three milestones currently in negotiations for extensions with EPA (M-016-85, M-016-85A, and M-016-086).

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5.5 100K Significant Accomplishments

DOE-RL shared that Waste Site 100-K-47:1 concrete (box) pipeline that carries effluent from East and West reactors, has been broken up for excavation and load out and is 80% complete. DOE-RL continued that the status of Waste Site 116-KE-2 excavation was completed in January of 2019. However, it has been determined that an additional 6' of soil sampling is needed. Waste Site 100-K-99, the debris site by the retention basins, will need additional remediation after 100-K-47:1 is complete. The Waste Site 100-K-47:2 extension of the effluent pipeline will be completed later this year.

DOE-RL stated K Basin characterization samples have been shipped to 222S laboratory for isotopic analysis. DOE-RL added that the basin operations characterization team continued to inspect and catalog underwater debris that has been awaiting the sludge process. Pacific Northwest National Laboratory (PNNL) provided a draft analysis of basin floor samples that leads to the initial review that the ERDF Compliant Calculation will drop significantly.

DOE-RL also reported approving CHPRC's request to terminate safeguards for the nuclear material in K West Basin, which clears the way for material processing and conditioning to create an underwater check source for the gamma camera and dispositioning the remaining material debris in the basin.

DOE-RL provided a conceptual sketch on how CHPRC is handling the vertical pipe casing (VPC) process.

DOE-RL stated they are continuing to prepare for demolition of the 166KE Oil Storage Bunker and a contractor has been selected to remove about 60,000 gallons of oil and residual water in an effort to get ready for demolition.

DOE-RL has also gained approval for the revision of DOE/RL-2005-26, Removal Action Work Plan (RAWP) for 100K Reactor and Ancillary Facilities, and started preparation for deactivation and determination of the industrial facilities 167K, 1724K, and 1724KA small facilities.

DOE-RL has awarded a contract for the removal of asbestos in the 105-K East Reactor. DOE-RL has also completed 60% Safe Storage Enclosure design modifications and are currently reviewing them.

5.6 Significant Planned Actions

DOE-RL reported soil remediation planned actions for excavation for waste sites 100-K-47:1, 100-K-47:2, and 116-KE-2. DOE-RL has planned to issue a contract to begin VPC excavation and debris bin tipping assembly fabrication for the K West Basin.

DOE-RL added the K West Basin is planning to have a complete design, award, and fabrication of the VPCs.

6.0 LAND DISPOSAL RESTRICTIONS REPORT

DOE-RL stated they have resolved all the comments with Ecology on the 2014 Land Disposal Restriction (LDR) Report, and the final redline draft is with Ecology for review. DOE-RL is requesting their completed review by the end of June 2019. DOE-RL explained if the comments are extensive, a one-month extension might occur. DOE-RL reported the harder issues (parking lot comments) will be addressed in the 2019 report with Ecology.

7.0 SOLID WASTE STABILIZATION AND DISPOSITION PROJECT

7.1 Accomplishments

DOE-RL reported milestone M-091-47D for 280 cubic meters was met in August 2017 and they are waiting for negotiations for the M-091 series. The associated negotiations will have a Tentative Agreement (TA) that will be submitted by the end of June 2019.

DOE-RL stated waste shipments continue to PermaFix Northwest (PFNW) with 817 cubic meters completed since August 2017. Milestone M-091-52-T01C continues removal of mixed waste containers, which is due in September of 2020. M-091-52-T02 to prepare the Engineering Evaluation and Cost Analysis (EE/CA) has been received by DOE-RL from the contractor and comments have been provided. It was reported that for Milestone M-091-52-T03, DOE-RL has had their comments addressed and are waiting on the formal submittal from the contractors. M-091-53 has is in negotiations and will be a part of the M-091 TA and the negotiations have been extended through June.

DOE-RL reported completing cask storage system final design, and now working on getting a quote from contactors. DOE-RL also reported continuing WESF modifications design work and continuing capsule storage area construction preparations.

7.2 Milestone Summary

DOE-RL reviewed the milestone summary and explained that both milestone M-091-47D and M-091-53 are in abeyance, meaning they are still in negotiations. Ecology responded that if submitted by the end of June 2019, the milestone should read on schedule.

7.3 Project Baseline Performance

DOE-RL added that the project baseline performance table reflects the management of cesium and strontium capsules at the bottom, that includes activities for moving capsules to dry storage. DOE-RL continued that the table also includes the baseline for Capsule Storage & Disposition; however, does not include the cost for the CSS (fabrication for the casks, auxiliary equipment, and massive mock-up). DOE-RL confirmed these items will be added to the next quarterly meeting slides.

8.0 CENTRAL PLATEAU REMEDIATION PROJECT

8.1 PUREX Tunnel 2 Stabilization

DOE-RL reported PUREX tunnel #2 grouting is 99% complete and was a successful process thus far. DOE-RL stated they are looking to close out contracts by August 2019.

8.2 REDOX Risk Reduction

DOE-RL reported completing collection of all requested beryllium samples in the REDOX silo sixth floor canyon and shipping for analysis, and performing entry to the seventh floor silo sample gallery, where they discovered mercury. DOE-RL explained they are in the process of cleaning out the mercury. DOE-RL continued that they are commencing field-testing of Roomba® (self-propelled vacuum) units in a clean area of REDOX north annex, placing contracts for new access road and personnel trailers for the north side of REDOX, and completing patching repairs on blower room #3 roof and south annex roof to mitigate water intrusions. Re-patching is occurring because roofs are past their life expectancy.

8.3 Other Accomplishments

DOE-RL verified completion of mechanical intrusive investigations in 242-B/BL and mobile trailer installations in support of demolition. DOE-RL explained the associated pictures indicate the steam line abatement that is currently taking place.

DOE-RL reported that they have completed surveillance work on miscellaneous facilities and are currently waiting on paperwork. DOE-RL continued with completing 400 area annual inspections of supply fans (as well as inspections of ignitable/reactive waste), and completed a third party inspection of Fuel Storage Facility (FSF) & sodium storage facility tanks in the 400 area.

Ecology asked why a third party inspection is needed. DOE-RL responded contractors wanted the independence of a third party.

DOE-RL discussed the canyon stabilization documents. Ecology stated that there are four approved plans that have been completed by the regulators. DOE-RL has been working closely with the regulators on the documents, and reported the process has been successful and comments have been limited.

8.4 Milestone Summary

DOE-RL notified the Parties that milestones M-016-250D, M-085-82, and M-085-74 have been completed. DOE-RL also stated that M-016-255 and M-016-256 are in dispute resolution. MSA added the dispute is through the end of June 2019.

8.5 Project Baseline Performance

DOE-RL provided the baseline performance table through May 2019 for the Parties' review.

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8.6 Planned Activities for Central Plateau Risk Management Project (CPRMP)

DOE-RL reiterated they are in the process of closing out the paperwork for PUREX Tunnel #2 activities. DOE-RL continued with their plan performing annual surveillance at 105KE and steam-lines. They have also started ground preparations for REDOX alternate exhaust systems, commenced field activities for REDOX cold and dark, and completed installation of REDOX Container Transfer Area (CTA) haul road and waste operations mobile trailer. Other planned activities include completing installation of PUREX mobile office and shower trailers and continuing effective support of the RCRA rev. 9 permit with modified addendums. Other items that need to be completed are the steam line asbestos abatement and final processing of 200 West section 3-7, final abatement and processing of the remaining two steam line crossovers located in the 200E Area and one additional in 200W, and the asbestos removal, de-watering, and demolition of 242-B/BL.

DOE-RL continued with canyon stabilization documents. EPA clarified it should read EPA's review on the 224T Sampling Analysis Plan (SAP) and 224T RAWP. DOE-RL confirmed they will make the correction.

Ecology requested a notification for when work is to start for 242-B/BL. Ecology also requested a discussion on Surveillance and Maintenance (S&M) costs. DOE-RL confirmed they will notify Ecology on 242-B/BL and are ready to discuss S&M costs for canyon work with both Ecology and EPA.

9.0 SOIL AND GROUNDWATER REMEDIATION

9.1 Accomplishments

DOE-RL reported they have submitted the 100-BC-5 proposed plan to EPA for headquarters review with a briefing scheduled for June 28, 2019. They have also completed construction on the KW soil flushing treatability test, transmitted the 100-K area draft B to EPA for their review, and transmitted the Draft A for 200-BP-5/PO-1 to Ecology. DOE also reported that they have started extraction well 299-E33-361 for 200-BP-5 Removal Action and the Ecology-accepted 216-A-29 Ditch Closure Plan will be added to the RCRA permit. RL submitted the 216-B-3 Pond Closure Plan to Ecology and stated they have resolved the two remaining issues on the 200-EA-1 OU RI/FS Work Plan (WP) during the May 16, 2019 IAMIT meeting and are preparing the WP and IAMIT determination for signatures.

9.2 Milestone Summary

DOE-RL notified the Parties that milestone M-015-93C is still in Dispute Resolution status along with M-015-99, M-015-98, and M-085-70. Milestone M-085-80 status has been moved to "At Risk." Milestones M-015-96 and M-015-21A were reported completed along with M-024-69 and M-024-58L. All the paperwork should be going through E-STARS to formally document the status.

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9.3 RL-30 Project Baseline Performance

DOE-RL stated the Schedule Variance is negative 2.3 and the Cost Variance is 56.6.

9.4 Planned Activities

DOE-RL discussed upcoming events with the river corridor and explained they will issue revision 0 of 100-BC-5 Remedial Investigation/Feasibility Study (RI/FS), complete EPA HQ review of the 100-BC-5 PP, and resolve Ecology's comments on the 100-HR-3 Remedial Design/Remedial Action (RD/RA) WP. DOE-RL added that they will also submit draft B for the 100-KR-4 RI to EPA, complete the KR-4 Decisional Draft B FS, issue TI waiver documents for 100-K, and continue infiltration of the KW Treatability Test.

DOE-RL continued discussing planned activities on the Central Plateau, such as issuing the 200-EA-1 RI/FS WP, initiating preparation of the 200-IS-1 RI/FS WP, resolving Ecology's comments on the draft A 200-DV-1 Treatability Test Evaluation Report, submitting draft A revision 1 200-ZP1 RD/RA WP to EPA for review, and initiating preparation of the 200-ZP-1 Optimization Plan. DOE-RL added additional Central Plateau activities, including resolving comments and issues with the 200-BP-5/PO-1 FS, completing EPA HQ review of the 200-BP-5/PO-1 PP, issuing the Rev.0 Remedial Design Investigation report for the 200-UP-1 southeast chromium plume, and submitting final versions for 216-B-3, 216-S-10, and 241-CX closure plans.

Ecology clarified that the TI waiver for 100-K is comprised of technical bases documents, and will follow up with DOE-RL to confirm. Ecology also asked if the soil flushing in KW were operational. Ecology would be interested in the test results and process. DOE-RL responded that they are seeing chromium earlier than expected (23 days) but the levels are not as high as expected. DOE-RL expanded on the soil flushing process and reported the system has been operational for about 3 weeks and has infiltrated one pour volume through the KW DV zone. DOE-RL is currently seeing peaks and valleys of data, which is not drawing clear conclusions. DOE-RL is working with contractors on developing strategies on the reports of peaks of 1400 to 1600 ppb. The data shows chromium-6 is being flushed and collected in the collection system. DOE-RL confirmed the collection system is working and the chromium-6 is unable to reach the river. DOE-RL offered a site tour for the Parties if desired.

EPA noted that the 100-K TI waiver means more once it gets into the Record of Decision (ROD).

Ecology followed up by asking to better understand the sequencing of the 200-BP-5 document and how EPA is reviewing and approving plans while new revisions are coming out. Ecology responded that the proposed plan comes with a feasibility study (FS) and the comment resolution process happens at the same time. Ecology continued that the Parties have elected to revise the PP all at one time.

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10.0 KEY DOCUMENTS LIST

DOE-RL noted most of the documents were discussed during today's presentation. Ecology explained the milestone due date (located at the bottom of the table). The Milestone Due Date shows completion dating back to 2013. Ecology also asked why some M-015 milestones that have future due dates are not on the table and what the overall purpose of the table provides. DOE-RL responded they will have to follow up with an answer. Ecology proposed placing the M-015 milestones on the table of milestones that are coming due.



AGENDA
Tri-Party Agreement Central Plateau/River Corridor Milestone Review
June 20, 2019

Place: Ecology, 3100 Port of Benton Blvd., Richland
Time: 9:00-10:30 a.m.
Chair: Bill Hamel

Time	Milestones	Subject	DOE Presenter
9:00 a.m.	M-035	Data Access	Ben Ellison
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
9:35 a.m.	M-026	Land Disposal Restrictions Report	Mark French
9:40 a.m.	M-091, M-092	Acquisition of Facilities to treatment, storage, and disposal (TSD), transuranic (TRU), 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	—



M-035-09

Conduct Biennial Assessments of Information and Data Access Needs

RICHLAND
OPERATIONS OFFICE

United States Department of Energy



M-035-09K Milestone

- “Conduct biennial assessments of information and data access needs with EPA and Ecology. DOE will propose implementation schedules (TPA Milestones) for enhancements as a result of the biennial assessments.”
- Originally due March 31, 2018, M-035-09K was extended through March 31, 2019.
- On March 15, 2019, Ecology transmitted letter 19-NWP-050, which stated that DOE is noncompliant with TPA Action Plan sections 9.6.2 and 9.6.5, and suggested developing interim milestones to preclude Ecology proceeding with enforcement actions.
- Ecology and DOE met on June 12, 2019, to discuss a path forward on M-035-09K. Items discussed included:
 - Restoring M-035-09K to Appendix D of the TPA
 - Considering TPA implementation schedules (TPA milestones) for enhancements.
- Ecology agreed in principle, that if M-035-09K is restored to Appendix D, and if acceptable TPA implementation schedules for data access enhancements are submitted by June 21, 2019, then Ecology would support closing the milestone.
- Ecology’s position is the status of the milestone is “Missed,” but that there is a path forward to complete the milestone.

**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 20, 2019

1. Significant Activities Last Three Months

- Feedback on the 2019 Lifecycle Report was received from EPA, Ecology, Oregon Department of Energy, and members of the public. Feedback was summarized and discussed with EPA and Ecology at the May 15, 2019 Project Managers Meeting. Agency and public feedback on the report has been posted to the Hanford.gov website.
- Change Request M-36-19-01 has been approved by DOE, EPA and Ecology. This change aligns future Lifecycle Report submittals with the 3 year submittal frequency of the of tank waste processing System Plan updates defined in TPA Milestone M-062-40. The next Lifecycle Report milestone submittal date is January 31, 2022.

2. Budget Status (within budget or explain variance)

- No major issues identified.

3. Issues

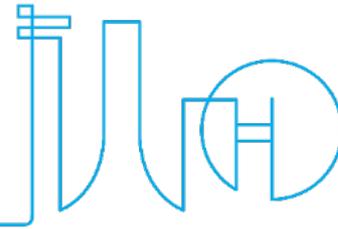
- No major issues identified.

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

- No major issues identified.

5. Significant Activities Planned Next Three Months

- A PMM will be scheduled for late July 2019 to discuss responses to feedback on the 2019 Lifecycle Report.



PFP Closure Project, March - May 2019

TPA Milestone Series: M-083



234-5Z rubble clean up complete April 2019



June 20, 2019

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 2019)

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	\$1,095.0	\$1,085.7	\$1,181.2	(\$9.2)	(0.8%)	(\$95.5)	(8.8%)	\$1,122.9	\$1,225.6	(\$102.7)

Fiscal Year to Date (Through May 2019)

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	\$104.4	\$108.1	\$40.3	\$3.7	3.5%	\$67.8	62.7%



Status: March through May 2019

- Management assessment (MA) for higher-risk work was performed from
- April 22 to May 2.

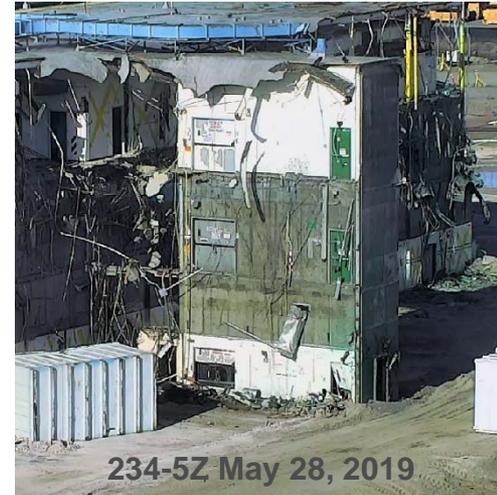


- The assessment team noted in its final report that “the actions taken to prepare to commence [the higher-risk] phase of the demolition work are completed and effective.”
- The team was also encouraged by actions taken to enhance training, worker involvement and monitoring, among other improvements.



Status: March through May 2019 (Cont.)

- Resumption of lower-risk demolition of 234-5Z started April 11



Planned Activities June through August 2019

- Week of June 17, brief DOE, Ecology and EPA on project readiness, including results of the MA, to resume higher risk work to lift TPA Article XXXII, Creation of Danger, stop work
- August 07, 2019, complete 234-5Z lower risk demolition
- Week of August 12, start 234-5Z higher risk demolition of Remote Mechanical (RM) A and C lines.



234-5Z Stairwell #2, May 30, 2019



K Basins Sludge Removal Project

Milestone M-016-176 and River Corridor Closure

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

March 2019 - May 2019



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



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K Basins Engineered Container Sludge Removal Significant Accomplishments (through May 2019)

Engineered Container Retrieval and Transfer System (ECRTS) Operations

- Sludge Transport and Storage Container (STSC) #10 was delivered to T Plant on March 18, 2019.
- STSC #11 was delivered to T Plant on April 10, 2019.
- STSC #12 was delivered to T Plant on April 24, 2019.
- STSC #13 was delivered to T Plant on May 7, 2019.
- STSC #14 expected to be delivered to T Plant on May 20, 2019.



Planned Activities

June - August

K Basins Sludge Removal Operations

- Continue ECRTS operations, process STSCs nos. 15-20.
- Perform bulk and end point criteria inspections of Engineered containers as they are emptied to support 100K Closure.



300-296 Soil Removal

Significant Accomplishments (March 2019 through May 2019)

- Completed installation of remaining B-Cell cameras.
- Completed factory acceptance testing for water delivery system for 324.
- Completed waste box shielding installation for A-Cell grout container load out.
- Broke seal of D-Cell floor using Seal Breaker Lifting Device (SBLD).
- Re-initiated C-Cell external sealing.
- Completed 324 Building ventilation test.
- Initiated B-Cell debris removal.



Waste box shielding installation in progress



Water delivery system FAT



300-296 Soil Removal (Cont.)

Significant Accomplishments (March 2019 through May 2019)

- Completed C8125 Geoprobe removal (35') and performed walk down of Geoprobe location with sonic driller.
- Initiated grout chipping in B-Cell



Geoprobe removal



Training at Mockup of B-Cell grout chipping and debris load-out

Project Baseline Performance

Contract to Date through May 26, 2019

	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	653.2	640.2	605.9	(13.0)	34.3	696.1	658.7	37.4
Numbers are rounded to the nearest \$0.1 million.								



Milestone Summary

Milestone	Due Date	Description	Status
M-016			
M-016-00B	9/30/2018	Complete all 300 Area remedial actions including the 618-10 burial ground, but not including the 618-11 burial ground, 300-296, and sites associated with retained 300 Area facilities and the utility corridors. Completion of all remedial actions is defined as the completion of the ROD requirements in accordance with an approved RD/RA work plan for all waste sites except 618-10, 316-4 and 600-63 which will be completed through backfill	Complete
M-016-85	9/30/2021	Complete remedial actions for 300-296 and final disposition for 324 building and Ancillary buildings	At Risk
M-016-85A	9/30/2019	Complete remote excavation of the 300-296 waste site	At Risk
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-094			
M-094-00	9/30/2018	Complete disposition of all 300 Area Surplus Facilities excluding the 324 Building	Complete



100K Closure

Significant Accomplishments (through May 2019)

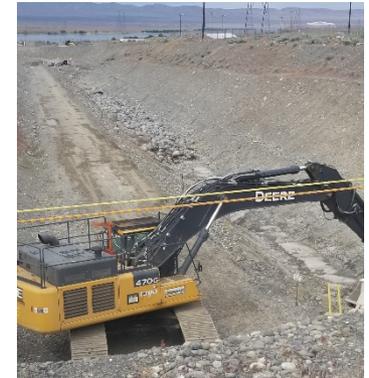
100K Soil Remediation

Waste Site 100-K-47:1

- Continued excavation and load out of soil and concrete box culvert (approximately 80 percent complete).

Waste Site 116-KE-2

- Received in-process soil sample data results.
 - Hexavalent chromium detected in one sample above river protection remedial action goals (RAGs).
 - Uranium, Strontium-90, and Cesium-137 detected above groundwater/river protection RAGs.
- Plan to excavate an additional 6 feet and perform soil sampling following the completion of Waste Site 100-K-47:1 excavation.



Waste Site 100-K-47:1
Columbia River in Background



Waste Sites 100-K-47:1 and
116-KE-2



100K Closure

Significant Accomplishments (through May 2019)

100K Soil Remediation

Waste Site 100-K-99

- Received replacement statistical and focused soil sample data collected to verify the removal of residual contamination.
 - One sample location failed direct exposure RAGs for Cs-137 and Eu-152, and river protection RAG for hexavalent chromium.
- Plan to conduct limited excavation and soil sampling following the completion of Waste Site 100-K-47:1 excavation.

Waste Site 100-K-47:2

- Started preparations for overburden removal.



Waste Sites 100-K-47:1 and 116-KE-2 Aerial Photo



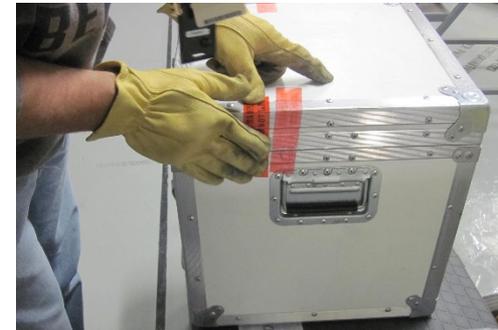
*Waste Site 100-K-47:1
Columbia River in Background*



Significant Accomplishments (through May 2019)

K W Basin Deactivation & Demolition

- K W Basin Characterization
 - The basin operations characterization team shipped nine floor settled solids (re-deposited sludge) samples to 222S laboratory for Isotopic analysis



Basin Operations Characterization Team Preparing Basin Floor Settled Solids Samples for Transport to 222S laboratory

Significant Accomplishments (through May 2019)

K W Basin Deactivation & Demolition

- K W Basin Characterization
 - The basin operations characterization team continued to inspect, stage, and catalog underwater debris.
- PNNL provided the draft report on the analysis of basin floor (concrete and vinyl coating) sample cores. Initial review indicates that the floor and wall source component in the K West Basin ERDF Compliant Calculation will drop significantly.
- RL approved the CHPRC request to terminate/cease safeguards for the Attractiveness Level E accountable nuclear material [found fuel specimens] in K West Basin. This clears the way for material processing and conditioning to create an underwater check source for the gamma camera and dispositioning the remaining material as RH TRU material.

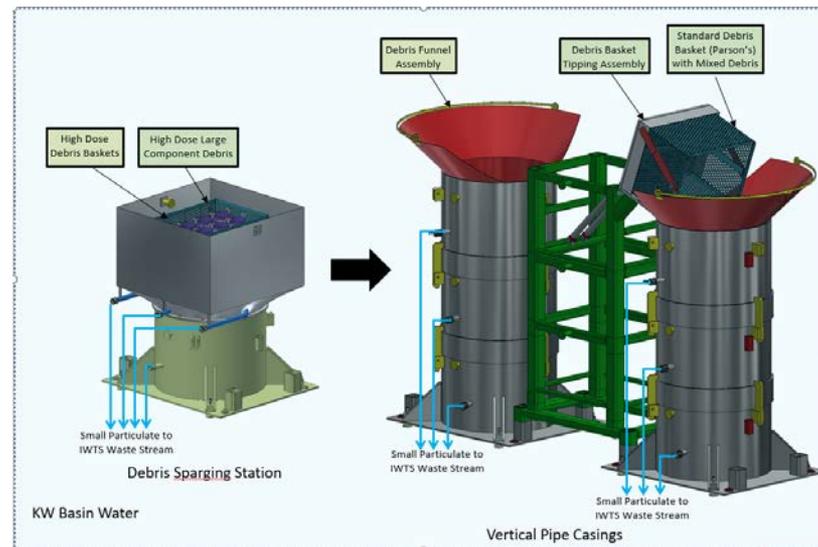


Significant Accomplishments (through May 2019)

K W Basin Deactivation & Demolition

- K W Basin Characterization

- Bids for the fabrication of the Vertical Pipe Casings, which will be used to segregate high activity below-water debris during basin deactivation, have been received and are being evaluated by the project.



Significant Accomplishments (through May 2019)

Ancillary Facility Deactivation & Demolition

- Continued preparing for demolition of 166KE Oil Storage Bunker (Waste Site 130-KE-2).
 - A contractor has been selected to remove residual oil and water from 166KE.
- RL and EPA approved the revision of DOE/RL-2005-26, *RAWP for 100K Reactor and Ancillary Facilities*.
- Preparation has begun to perform D&D of industrial facilities 167K, 1724K, and 1724KA.



Significant Accomplishments (through May 2019)

K East and K West Reactor Interim Safe Storage (ISS)

- The contract has been awarded for the limited removal of asbestos removal inside of the 105-K East Reactor Building.
- The 60% Safe Storage Enclosure (SSE) design modification package has been prepared, and the 100K Engineering review team has started their review of design media (includes revised drawings, specifications, and new calculations).



100K Closure

Significant Planned Actions (through August 2019)

100K Soil Remediation

- Complete excavation of Waste Site 100-K-47:1.
- Complete excavation of Waste Site 100-K-47:2.
- Complete excavation of Waste Site 116-KE-2.

K West Basin Deactivation & Demolition

- K West Basin Characterization
 - Issue a contract and begin VPC and debris bin tipping assembly fabrication.



Significant Planned Actions (through August 2019)

K West Basin Deactivation & Demolition

- K West Basin Characterization
 - Complete design, award a contract, and begin fabrication of the VPCs.
 - Progress disposition of found fuel specimens.
 - Complete development of the fuel piece specimen conditioning unit.
 - Condition found fuel specimens and transport a small sample to PNNL for analysis and the remainder configured as an underwater check source for the gamma camera.



Significant Planned Actions (through May 2019)

Ancillary Facility Deactivation & Demolition

- 166KE Fuel Storage Basin/Waste Site 130-KE-2
 - Progress preparations for demolition.
 - Remove oily water from the 166KE.
 - **K East Reactor ISS**
- Begin asbestos removal and complete the design modification.
 - Limited asbestos will be removed along the surveillance and maintenance tour path within 105-K East Reactor.
 - The 2012 SSE design will be updated to address necessary changes to support future Surveillance & Maintenance entries into the SSE and Reactor Building.
 - Examples of design changes include creating inspection openings in transite panels, adding a stairwell and railings, modifying lighting, adding electrical receptacles and shifting the entire SSE to avoid the groundwater well installed on the north side of the Reactor Building.
 - Completion of the asbestos removal and updating the SSE design are predecessors to performing earthwork around the 105-K East Reactor, constructing the SSE foundation and erecting the SSE structure.

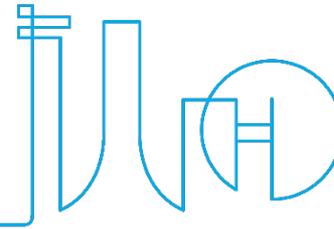




M-026-01 Land Disposal Restrictions

TPA Milestone M-026-01 Quarterly Status

- The *CY2014 Hanford Site Mixed Waste Land Disposal Restrictions (LDR) Full Report* TPA primary document review process is almost complete.
 - Review Comment Record (RCR) Ecology Comments/Responses were provided on August 23, 2018. The Parties have finalized TPA comment response technical discussions. Revisions to the CY2014 Report have been drafted and provided to Ecology for final review June 11, 2019.
 - The Parties agreed to place the LDR PMM's on-hold until the end of the TPA primary document review process for the RCR Ecology Comments/Responses.
- The Parties will enter into CY2019 Report Parking Lot discussions in the near term to shape the content of the CY2019 Full Report.



Solid Waste Stabilization and Disposition Project

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

March – May 2019

June 20, 2019



U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

Columbia River White Bluffs



Accomplishments

March – May 2019

- M-091-47D Certify or Treat 280-m3 of TRUM/MLLW:
 - Met 280 m3 in August 2017. Awaiting negotiations of M-91 series for additional milestones.
 - Waste shipments continue to PFNW, completed 817 m3 since August 2017.
- M-091-52-T01C:
 - Continued removal of mixed waste containers from Outside Storage Area A and/or Outside Storage Area B. Six (6) of the twenty (20) have now been removed.
- M-091-52-T02:
 - Preparing Engineering Evaluation and Cost Analysis (EE/CA) for submittal to DOE-RL for review.
- M-091-52-T03:
 - Preparing Mission Needs statement (CD-0) for CH processing facilities/capabilities for submittal to DOE-RL for review.
- M-091-53:
 - Negotiations under way. Extended through May.



HEPA Filters start of size-reduction.



Light fixtures and HEPA filters from fiberglass reinforced plywood box.



M-092-09 and M-092-00

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

- March – May 2019 Accomplishments
 - Completed Cask Storage System final design.
- June – August 2019 Planned Activities:
 - Continue WESF modifications design work.
 - Continue Capsule Storage Area construction preparations.



Milestone Summary

Milestone	Due Date	Description	Status
M-091			
M-091-52	12/29/2017	Submit change request with target dates for new/modified capabilities to process TRUM waste	Complete
M-091-47D	9/30/2018	Submit change request to establish next two TRU/MLLW annual certification/disposal milestones.	In Abeyance
M-091-53	9/30/2018	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	In Abeyance
M-091-52-T01A	11/30/2018	Remove 5 MW containers from Outside Storage Area (OSA) A and/or Outside Storage Area B	Complete
M-091-52-T01B	11/30/2019	Remove 10 MW containers from Outside Storage Area (OSA) A and/or Outside Storage Area B	Complete
M-091-052-T01C	11/30/2020	Remove 20 MW containers from Outside Storage Area (OSA) A and/or Outside Storage Area B	On Schedule



Project Baseline Performance through May 2019

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	895,686.7	892,923.7	835,173.8	(2,763.1)	-0.3%	57,750.9	6.5%	926,245.0	866,593.7	59,651.3

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	174,469.3	173,844.4	139,603.3	-0.4%	19.7%
Capsule Storage & Disposition	105,473.4	105,577.1	115,745.5	0.1%	-9.6%
Mixed Low Level Waste Treatment	43,182.5	43,182.5	37,200.3	0.0%	13.9%
TRU Retrieval	100,138.6	100,141.6	112,523.6	0.0%	-12.4%
TRU Repackaging	113,670.2	112,850.2	104,701.0	-0.7%	7.2%
Waste Receiving and Processing Facility	56,823.6	56,721.5	54,402.6	-0.2%	4.1%
T Plant	139,939.9	139,585.0	120,187.2	-0.3%	13.9%
Central Waste Complex	117,786.5	117,172.5	113,916.6	-0.5%	2.8%
TRU Disposition	33,763.7	33,370.2	25,141.9	-1.2%	24.7%
Mngt of Cesium and Strontium Capsules Proj W-135	10,439.0	10,478.7	11,750.8	0.4%	-12.1



Planned Activities

June – August 2019

- M-091-47D TRUM/MLLW Treatment
 - Met volume processed, August 8, 2017. Complete renegotiation of M-091 series milestones.
 - Continue waste processing toward next objective.
- M-091-52 Target Milestones
 - Continue removing mixed waste containers from OSA A and/or OSA B in support of M-091-52-T01C
 - Continue progress towards M-091-52-T02 to develop Interim Response Action to resume waste retrieval in support of M-091-49A.
 - Continue progress towards M-091-52-T03 to develop a mission needs statement (CD-0) regarding CH processing facilities/capabilities.
- M-091-53
 - Continue negotiations.



Central Plateau Remediation Project

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

Mar 2019 – May 2019
June 20, 2019



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

Columbia River White Bluffs



PUREX Tunnel # 2 Stabilization Accomplishments

March 2019 through May 2019

- Completed grouting operations with the riser topping off and filling against the water door.
- A total of 41,496 cubic yards / 4,163 trucks of grout used to stabilize the tunnel.
- Commenced demobilization and waste load out activities at the tunnel and batch plant.



Left: PUREX Tunnel #2 Team after final grout placement.

Above: Removed and packaged riser plugs for disposal at ERDF.

Right: Demobilization of mobile batch plant silo.



REDOX Risk Reduction Accomplishments

March 2019 through May 2019

- Completed collection of all requested beryllium samples in the REDOX Silo 6th floor canyon and shipped for analysis.
- Performed entry into 7th Floor Silo sample gallery; discovered mercury. Performed vapor sampling on 7th floor following discovery and confirmed presence of mercury.
- Commenced field testing of Roomba units in clean area of REDOX north annex.
- Placed contracts for new access road and personnel trailers for north side REDOX.
- Completed patching repairs on blower room #3 roof to mitigate water intrusion.
- Continued patching repairs on south annex roof to mitigate water intrusion.



REDOX 7th Floor Silo



Discovery of mercury
on 7th Floor Silo



Other Accomplishments

March 2019 through May 2019

- Completed the electrical and mechanical intrusive investigations and set up temporary power at 242-B/BL.
- Completed the hazmat removal and fixative application for 242-B/BL.
- Completed the mobile trailer installations for 242-B/BL.
- Completed steam line asbestos abatement of REDOX and 200 West Sections 1 and 2 (6,000 linear feet).
- Completed final abatement and processing of five steam line crossover locations in the 200 East Area.



Steamline abatement in 200 West



Mechanical Isolations at 242-B/BL



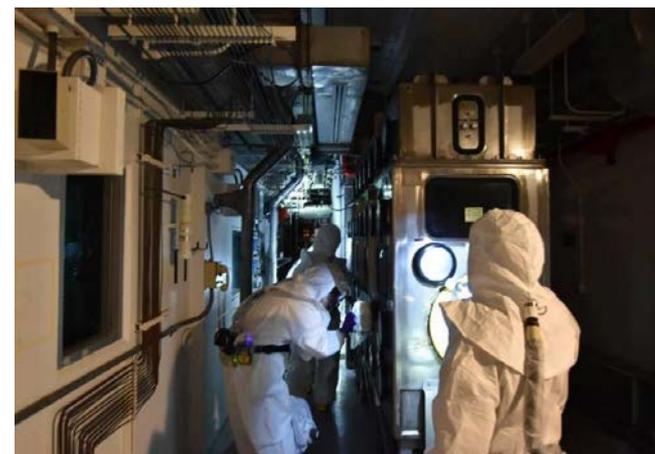
Other Accomplishments

March 2019 through May 2019

- Completed 2019 B-Plant, B-Plant Misc. Facilities, PUREX, REDOX, Z-Structures, and 231-Z annual surveillances.
- Performed annual PUREX TK-30 inspection.
- Completed inactive WIDS site annual surveillance at PUREX, REDOX, and B-Plant.
- Completed 400 area annual inspections of supply fans #E-3003 and E-3004, as well as inspection of ignitable/reactive waste.
- Completed 3rd party inspection of FSF & Sodium Storage Facility Tanks in the 400 area.



Surveillance of PUREX N-Cell
Glovebox Rooms



Accomplishments

March 2019 through May 2019

Canyon Stabilization Documents

- Submitted to Regulators:
 - DOE/RL-2017-47 Tier 2 Misc. Facilities Sample Analysis Plan (SAP), Rev. 0 (Approved)
 - DOE/RL-2016-50 Tier 2 Misc. Facilities Removal Action Work Plan (RAWP), Rev. 0 (Approved)
 - DOE/RL-2017-05 REDOX SAP, Rev. 0 (Approved)
 - DOE/RL-2017-06 REDOX RAWP, Rev. 0 (Approved)
 - DOE/RL- 2017-45 Tier 2 B Plant SAP, Rev. 0
 - DOE/RL-2016-15 PUREX Engineering Evaluation/Cost Analysis (EE/CA), Draft B for Ecology Review
- Received from CHPRC:
 - DOE/RL-2017-34 224B RAWP, Draft for RL Review
 - DOE/RL-2017-33 224B SAP, Draft for RL Review
- In Development Nearing Completion:
 - DOE/RL-2016-47 Tier 2 PUREX RAWP, Decisional Draft (DD) for RL Review
 - DOE/RL-2017-46 Tier 2 PUREX SAP, DD for RL Review



Milestone Summary

Through FY19

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-16-17-01	Dispute resolution
M-016-250D	3/31/2019	DOE shall submit a 3-year rolling prioritized schedule to implement waste site removal actions	Complete 3/27/19
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-037 TSD Closure Activities			
		Milestones due past 3 year window	
M-085-00 Complete Response Actions for Specified Canyon Facilities & Waste Sites			
M-085-82	12/31/2017	Submit to Ecology for approval proposal(s) for expedited response action(s) for one or more of the Tier 1 and Tier 2 facilities in the PUREX Geographic Area listed in HFFACO Appendix J.	Complete 12/7/17
M-085-74	6/30/2018	Submit Expedited Response Action for one or more Tier 1 and Tier 2 facilities in the B Plant geographical area.	Complete 11/17/16



Project Baseline Performance through May 2019

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	255.6	249.8	248.4	(2.6)	1.4	269.3	272.9	(3.6)	0.98	1.01
ARRA	285.5	285.5	266.5	0	19.0	285.5	266.5	19.0	1.00	1.07
Total	541.1	535.3	514.9	(5.8)	20.4	554.9	539.4	15.4	0.99	1.04

Numbers are rounded to the nearest \$0.1M



Planned Activities for CPRM

June 2019 – August 2019

- Complete demobilization at PUREX Tunnel #2.
- Perform Annual Surveillance at 105KE and Steamlines.
- Start ground preparations for REDOX alternate exhaust system.
- Commence field activities for REDOX Cold & Dark
- Complete installation of REDOX Container Transfer Area (CTA), haul road, and waste operations mobile trailer.
- Complete installation of PUREX mobile office and shower trailers.
- Continuation of effective RCRA Rev 9 permit with modified addendums.
- Complete the steam line asbestos abatement and final processing of 200 West Section 3 through 7.
- Complete final abatement and processing of remaining two steam line crossovers locations in the 200E Area and one additional in 200W.
- Complete the asbestos removal, de-watering, and demolition of 242-B/BL.



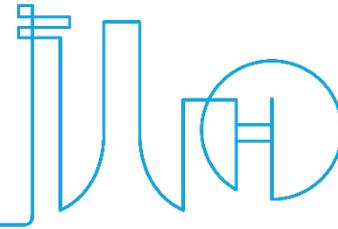
Planned Activities

June 2019 through August 2019

Canyon Stabilization Documents

- Ecology approvals:
 - DOE/RL-2016-15 PUREX EE/CA, Rev.0
 - DOE/RL-2017-46 Tier 2 PUREX SAP, Rev.0
 - DOE/RL-2016-47 Tier 2 PUREX RAWP, Rev.0
- RL/Ecology Reviews:
 - DOE/RL-2016-53 PUREX Action Memorandum (AM), DD for RL Review
 - DOE/RL-2017-33 224B SAP, DD for RL Review
 - DOE/RL-2017-34 224B RAWP, DD for RL Review
 - DOE/RL-(TBD) 224T SAP, Draft for RL Review
 - DOE/RL-(TBD) 224T RAWP, Draft for RL Review





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 - May 2019



June 20, 2019

Accomplishments – River Corridor

March 2019 – May 2019

- Submitted the 100-BC-5 Draft Rev 0 PP to EPA for HQ's review on April 29, 2019. Briefing with the EPA Administrator is scheduled for June 28, 2019.
- Completed construction the KW soil flushing treatability test infiltration gallery on April 17, 2019. Initiated test on May 28, 2019.
- Transmitted the 100-K Area Remedial Investigation Draft B (DOE/RL-2010-97) to RL for submittal to EPA for their review on May 1, 2019.



Installation of soil flushing infiltration laterals at test in KW



KW soil flushing pressure test



Accomplishments – Central Plateau

March 2019 – May 2019

- Transmitted the Draft A, 200-BP-5/200-PO-1 Operable Unit Proposed Plan to Ecology for review on March 27, 2019.
- Started up extraction well 299-E33-361 as part of the 200-BP-5 Removal Action in April 2019, which completes construction of the required extraction wells.
- Ecology accepted the 216-A-29 Ditch Closure Plan on April 29, 2019, which will be added to the RCRA permit in the future.
- Submitted the 216-B-3 Pond Closure Plan to Ecology for review on April 25, 2019.
- Resolved the two remaining issues on the 200-EA-1 OU RI/FS Work Plan during the May 16 2019 IAMIT meeting. Preparing the work plan and an IAMIT determination for signature in June 2019.



Combined 200-BP-5/200-DV-1 Transfer Station



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-015-96	2/28/2019	Submit 100-OL-1 RI report and change request for FS report to Ecology	Completed
M-015-21A	3/31/2019	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology	Completed
M-015-99	12/31/2019	Complete Remedial Investigation of PFP Related Waste Sites Located in 200-WA-1	Dispute Resolution
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-024-00			
M-024-69	12/31/2018	DOE shall complete the construction of all wells listed for calendar year 2018 and before	Completed
M-024-58L	6/1/2019	Initiate Discussions of Well Commitments	Completed
M-024-70-T01	8/1/2019	Conclude Discussions of Well Commitments initiated under M-024-58	Completed
M-024-70	12/31/2019	Complete the Construction of All Wells Listed for CY19 and Before	On Schedule
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	at Risk

* Subsequent follow-on milestones (M-015-84 and M-015-91B) are also at risk.



RL-30 Project Baseline Performance

Contract to Date Through May 2019

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	1,602.1	1,599.8	1,543.2	-2.3	-0.1%	56.6	3.5%	1,645.0	1,583.7	61.3

Numbers are rounded to the nearest \$0.1 million.

Period of performance 10/1/2008 through May 2019



Planned Activities

June through August 2019

River Corridor

- Issue the Revision 0 100-BC-5 RI/FS.
- Complete EPA HQ review of the 100-BC-5 PP.
- Resolve Ecology's comments on the 100-HR-3 RD/RA Work Plan.
- Submit Draft B 100-KR-4 RI to EPA for review.
- Complete the KR-4 Decisional Draft B FS.
- Issue TI Waiver documents for 100-K.
- Continue infiltration of the KW Treatability Test.

Central Plateau

- Issue the the 200-EA-1 RI/FS Work Plan.
- Initiate preparation of the 200-IS-1 RI/FS Work Plan.
- Resolve Ecology's comments on the Draft A, 200-DV-1 Treatability Test Evaluation Report.
- Submit the Draft A, Rev 1 200-ZP-1 RD/RA WP to EPA for review.
- Initiate preparation of the 200-ZP-1 Optimization Plan.



Planned Activities

June through August 2019

Central Plateau

- Resolve comments and issue the 200-BP-5/200-PO-1 FS.
- Complete EPA HQ review of the 200-BP-5/200-PO-1 PP.
- Issue the Rev. 0 Remedial Design Investigation Report for the 200-UP-1 Southeast Chromium Plume.
- Submit the final version of the 216-B-3 Pond Closure Plan.
- Submit the final version of the 216-S-10 Pond and Ditch Closure Plan.
- Submit the final version of the 241-CX Tanks 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 Inner 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	D. Hildebrand	M.Hickey	N. Menard	Ecology	Project initiation will occur after the 200-EA-1 RI/FS work plan is completed since similar resources are used on both documents.
2	200-EA-1 200 East Closure Plans	TSD - Closure Plans for 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-B-63 Trench and Hexone Storage and Treatment Facility (276-S-141/142)	M-037-10: Complete Closure for 6 Specified TSD Units	9/30/2020	11/8/2018 TBD	M. Kamal	M.Hickey	N. Menard	Ecology	Transmitted the certified 216-A-36B crib and 216-A-37-1 crib closure plans to Ecology on February 5, 2019. Hexone Treatment Facility closure plan is undergoing comment resolution with Ecology. Submitted the 216-A-29 ditch closure plan to Ecology for review on January 29, 2019.
3	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	TBD TBD	M. Kamal	M.Hickey	N. Menard	Ecology	.
4	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	M.Hickey	N.Menard	Ecology	Resolved two remaining Ecology comments during the May 16, 2019 IAMIT meeting. The first issue was related to the infiltration rate or rates to be used when evaluating the characterization data. The second issue was a request from Ecology to analyze PCB samples for the congeners associated with a specific Aroclor.
5	200-UP-1 200 West Area Groundwater	200-UP-1 Southeast Chromium Plume Remedial Design Report	M-16-193: Complete the remedial design investigation of the southeast chromium plume, including the installation of new wells and evaluation of groundwater monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the 200-UP-1 RD/RA WP.	Milestone Completed on 9/25/2018	9/26/2018 12/13/2018	J.Hanson	C.Wittreich	E. Laija	EPA	Received EPA comments on the Draft A 200-UP-1 SE Chromium Plume Remedial Design Investigation Report on December 13, 2018. The comments were resolved in mid-February 2019 and the document will be finalized for transmittal as Revision 0 in May 2019.
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 2/28/2019 3/28/2019 5/13/2019	J.Hanson	C.Cearlock	N. Menard	Ecology	Received Ecology comments on the Draft A FS on February 28, 2019 and are currently working on the comment resolution process. The Draft A Proposed Plan is under regulatory review.
7	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	Resolution of EPA comments on the Draft Rev 0 RI/FS were completed on April 9, 2019. The document will be finalized to Rev 0 and then prepared for final submittal to RL. Submittal to RL is scheduled for June 2019. Received final EPA legal/policy comments on the Draft Rev 0 Proposed Plan (PP) on March 21, 2019, and resolution of comments was completed on April 9, 2019. EPA HQ is scheduled to review this document and it was accordingly provided to local EPA on April 29, 2019, to coordinate EPA HQ's review.
8	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. The Draft B RI Was delivered to EPA for reiew on May 3, 2019 and the draft B FS is scheduled for EPA review in October 2019.
9	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	RD/RAWP	None		1/24/2019 3/33/19	J.Sands	R. Evans	N. Menard	Ecology	Received Ecology's Draft A RD/RAWP comments on April 2, 2019. Comment resolution is underway and a request to extend the resolution completion date to July 11, 2019, was approved.
10	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	Continued preparation of the Draft B RI/FS. Extension request was submitted and approved to May 13, 2019. TPA-CN-0856 was submitted for approval on May 15, 2019. The change would request revision of the Work Plan and extension dates for the RI to July 31, 2019; FS to September 30, 2019 and PP to March 31, 2020.