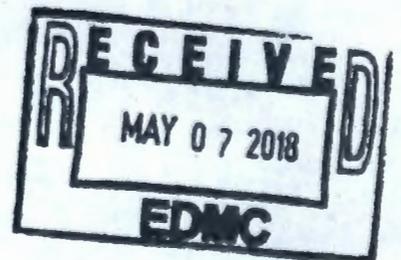


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River Corridor/Central Plateau Quarterly Tri-Party Agreement Milestone Review Meeting Minutes

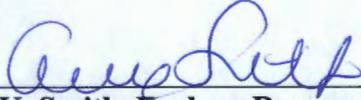
Department of Ecology Building
Richland, Washington
March 15, 2018

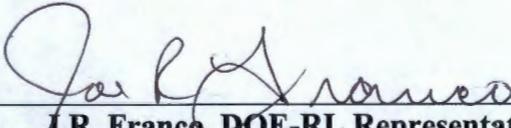


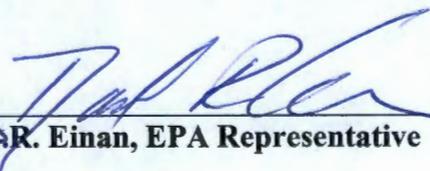


**River Corridor/Central Plateau
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
March 15, 2018**

SIGNATURES

Approval:  Date: 5/7/18.
A.K. Smith, Ecology Representative

Approval:  Date: 5/2/18
J.R. Franco, DOE-RL Representative

Approval:  Date: 7 May 18
D.R. Einar, EPA Representative

Minutes Prepared by:  Date: 5/1/2018
S.W. Davis, Mission Support Alliance



***Tri-Party Agreement River Corridor/Central Plateau Milestone Review
March 15, 2018 Agenda***

Chair: Joe Franco

Time	Milestones	Subject	DOE Presenter
9:00 a.m.	M-016, 093	100 K Remediation	Roger Quintero
9:10 a.m.	M-035	Data Access	Ben Ellison
9:15 a.m.	M-016, 089, 093, 094	River Corridor Closure	John Neath
9:25 a.m.	M-026	Land Disposal Restrictions Report	Al Farabee
9:30 a.m.	M-091, 092	Acquisition of Facilities to treatment, storage, and disposal (TSD), transuranic (TRU), transuranic mixed (TRUM) and low-level mixed waste (LLMW)	Al Farabee
9:40 a.m.	M-016, 037, 085	Central Plateau Remediation	Al Farabee
9:55 a.m.	M-036	Life Cycle Cost Report	Shannon Ortiz
10:00 a.m.	M-015, 016, 024, 085	Soil and Groundwater Remediation	Keelan Abenth
10:15 a.m.	—	Richland Operations Office Key Documents List	Keelan Abenth
10:20 a.m.	M-083	Plutonium Finishing Plant (PFP) Closure	Tom Teynor
10:30	—	Adjourn	—



**Tri-Party Agreement River Corridor/Central Plateau Milestone Review
March 15, 2018**

<u>Name</u>	<u>Organization</u>
<u>Stephanie Beachler</u>	<u>MSA TPA</u>
<u>Dave Eisen</u>	<u>EPA</u>
<u>Sarah Dawson</u>	<u>DOE</u>
<u>Jeff Davis</u>	<u>MSA-TPA</u>
<u>John Decker</u>	<u>DOE</u>
<u>Roger Duvintens</u>	<u>DOE</u>
<u>Kathryn Knox</u>	<u>court reporter</u>
<u>Stacey Cimal</u>	<u>ODOE</u>
<u>Ann Dick</u>	<u>Ecology</u>
<u>Joe Frouw</u>	<u>DOE RL</u>
<u>Kelly Elsethagen</u>	<u>Ecology</u>
<u>Ron Skinnard</u>	<u>Ecology</u>
<u>Sara Austin</u>	<u>CHPRC</u>
<u>Mary Dwan</u>	<u>CHPRC</u>
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**Tri-Party Agreement River Corridor/Central Plateau Milestone Review
March 15, 2018**

<u>Name</u>	<u>Organization</u>
<u>NINA MENARD</u>	<u>Ecology</u>
<u>Craig Cameron</u>	<u>EPA</u>
<u>John Price</u>	<u>Ecology</u>
<u>Melinda J Brown</u>	<u>Ecology</u>
<u>Stephanie Schlit</u>	<u>Ecology</u>
<u>KEN MASER</u>	<u>MSA</u>
<u>Ben Elber</u>	<u>DOE</u>
<u>Shannon Oniz</u>	<u>DOE</u>
<u>Tom Teyner</u>	<u>DOE</u>
<u>Glenn Konzek</u>	<u>DOE-RL</u>
<u>Al Farabee</u>	<u>DOE-RL</u>
<u>Keenan Abenth</u>	<u>DOE-RL</u>
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**River Corridor/Central Plateau
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100K Sludge Removal Project – TPA Milestone Series M-016

Accomplishments December 2017 – February 2018 - DOE-RL noted that the agenda makes reference to 100K remediation, but today's presentation will address the sludge removal project. DOE-RL reported that construction of the sludge removal process was completed in December 2017, and the system was turned over to the facility operations organization.

DOE-RL stated that all of the 24 sludge transport and storage containers (STSCs) are now on site and ready for service. DOE-RL indicated that the 24 STSCs should be all the containers needed to complete removal of sludge from the basin.

DOE-RL stated that during the last few months the focus was on the readiness verification process, which is a three-step process to verify the facility can be started up safely and initiate sludge removal. The contractor completed the first step by conducting their operational acceptance testing (OAT). The OAT involved procedure development, some operations demonstrations with equipment, and training and qualification of the personnel who will be operating the equipment. The facility declared readiness in January 2018 to start the next step, which is the contractor operational readiness review (ORR), and the contractor ORR was completed on March 7, 2018. DOE-RL stated that the contractor ORR resulted in a total of 11 prestart findings, which is typical for an ORR. The contractor ORR team stated in their outbrief that once the facility implements corrective actions to address the 11 findings, the facility can be started up safely.

DOE-RL stated that the contractor should be issuing its formal report by the end of next week, with the recommendation to start the DOE-RL ORR, which is the third and final step in the readiness verification process. DOE-RL will review the contractor's submittal, with a particular focus on the contractor's corrective actions taken to address the 11 prestart findings. DOE-RL expects to complete its review of the contractor's ORR in about a week, and then receive direction to start the DOE-RL ORR on April 9, 2018. DOE-RL noted that the entire ORR process should be completed by the end of April 2018.

DOE-RL referred to the sludge transportation system (STS) cask in the photos in today's handout, and noted that the STSC will be placed in the STS cask for transport.

DOE-RL stated that after the sludge is removed from the basin, it will be shipped over to T Plant. The STSCs will be placed in storage in cells at T Plant. DOE-RL stated that T Plant has completed its readiness verification activity and declared readiness to receive sludge.

Milestone Summary – DOE-RL stated that M-016-175 is due September 2018 to begin sludge removal, and the milestone is expected to be completed ahead of schedule by early May 2018. DOE-RL noted that the follow-on milestones to complete sludge removal and initiate deactivation of the basin are due in December of 2019.

Project Baseline Performance – DOE-RL stated that the cost and schedule performances indexes are at or above 1.0, which reflects a positive project baseline performance.

Planned Activities March 2018 – May 2018 – DOE-RL stated that its ORR should be completed by the end of April 2018, and sludge removal is anticipated to start in early May 2018.

Biennial Assessments of Information and Data Access Needs – M-035-09

Milestone Accomplishments - DOE-RL reported that the issue associated with account suspension notification is being addressed. DOE-RL stated that if regulators have not used their accounts on the HLAN for a certain period of time, the account gets suspended. DOE-RL noted that the account suspension is applied to all users, including DOE-RL. DOE-RL stated that the issue was timely notification of the suspension, and MSA has made some changes to the system. DOE-RL added that modifications to the notification system are needed that will allow notification to more than one person, and those modifications are being completed. DOE-RL indicated that most of the suspensions will now be identified before they happen.

DOE-RL stated that the Visitor Hanford Computer Access Request (VHCAR) form has been revised to eliminate questions regarding nationality since those questions are included on the HID form. The revision eliminates the Official Use Only (OUO) aspects on the VHCAR form.

DOE-RL stated that documentation has been updated to reflect the changes and optimizations that have been made, with support from MSA. DOE-RL noted that all network users are required to authenticate with smart cards, and the process for receiving and turning in the smart cards has been updated.

DOE-RL reported that the version of PopFon that Ecology uses has been upgraded to provide information such as email addresses and supervisory chains, and Ecology now has full access to all the information in PopFon.

Issues and Challenges – DOE-RL noted that one of the current outstanding issues is regarding information that is inaccessible to Ecology on the Integrated Document Management System (IDMS). DOE-RL has been working with Ecology and MSA to address the issue, and due to the effort involved, a three-month extension has been filed from the original March 2018 date to resolve the issue. DOE-RL noted that a lot of the information is located in areas that are not easily sorted through and identified as cleared or not cleared. DOE-RL stated that the contractors will be sent letters of direction to sort through their files and place accessible information in clearly distinguishable files. The contractors will also be providing a response

regarding the impact of retroactively sorting through files. DOE-RL added that Ecology will be provided a copy of the letters. DOE-RL estimated that the contractor impact assessments will be received at the end of June 2018, taking into account the DOE-RL letter concurrence chain and the contractors' 30-day impact assessment time frame.

EPA stated that the process should be specific to ensure accessibility and not just a reference to documents complete or letters referencing inaccessible documents. DOE-RL responded that the issue had been addressed by requesting the contractors to discontinue referencing Smart Plant in the documents.

Ecology inquired about documents that may currently be inaccessible that Ecology should be able to access. DOE-RL responded that it is likely there are inaccessible documents, and currently Ecology would need to go through the traditional clearance process of requesting a document.

DOE-RL referred to a tool called Search All Metadata that would allow an IDMS search that would result in a comprehensive list of documents for certain pieces of metadata. DOE-RL noted that the document would not be provided, but it would provide a name as a starting point. DOE-RL stated that it is not able to obtain the tool at this time. Ecology asked if it could request certain metadata, and DOE-RL could conduct the search and remove any sensitive information. DOE-RL indicated that that type of search could be done for Ecology. Ecology stated that the final solution needs to have an indexing component that would allow cross-referencing to be able to verify the data set is complete. Ecology added that the indexing component as part of the final solution has been discussed several times with DOE-RL and MSA.

River Corridor Closure – TPA Milestones M-016/M-089/M-093/M-094

618-10 Burial Ground Significant Accomplishments (through February 2018)

DOE-RL reported that the backfill on the 618-10 burial ground was completed, and demobilization of the infrastructure and equipment that was used to clean up will be completed.

300-296 Soil Removal Significant Accomplishments (December 2017 – February 2018) - DOE-RL noted that the first entry in 15 years was made into C-Cell, and debris removal from the cell was completed.

300-296 Soil Removal Significant Planned Actions (March 2018 – May 2018)

DOE-RL stated that the design for structural modifications to the 324 Building are progressing that will allow the excavation to occur. The 324 Building facility modifications will be done, including cell sealing and core drilling

100K Closure Project Significant Accomplishments (through February 2018)

100K Soil Remediation - DOE-RL noted the backfill of the 183.2 KE Sedimentation Basin is under way, and excavation is continuing at the 116-KE-2 waste site. Planning for closure

documentation is under way for the 1607-K1, 100-K-107 and 100-K-108 waste sites.

K West Basin Deactivation & Demolition

Garnet Filter Media Removal System - DOE-RL noted that the work to cut a hole in the garnet filter No. 3 shield enclosure should be completed next week. DOE-RL stated that the hole will allow access to work on the VW-305 outlet valve.

Sand Filter Media Removal System - DOE-RL stated that the sand filter media removal system has been demonstrated, and efforts are under way to improve the efficiency of the filter vessel sparge and retrieval heads for spray testing. Efforts are also under way to improve the effectiveness and efficiency of sampling retrieval when it occurs.

K West Basin Characterization – DOE-RL noted that one valid core sample was extracted from the K West Basin floor, and that two other core samples were not adequate for sampling. DOE-RL stated that since the sludge transfer process is anticipated to be starting up, there will be no further in-basin characterization activities until after the first STSC is shipped to T Plant in mid-June 2018. DOE-RL indicated that the intent is for the facility to fit in characterization activities when possible during the process of removing the sludge and decanting, connection and disconnection, and shipping activities.

DOE-RL stated that there is the potential of finding material that may be remote-handled TRU waste during characterization, but it is too early in the process and there is time to address any remote-handled TRU waste.

Ancillary Facility Deactivation and Demolition Significant Accomplishments (through February 2018) - DOE-RL stated that asbestos removal continues in the 165-K East power control house.

K East and K West Reactor Interim Safe Storage (ISS) Significant Accomplishments (through February 2018) – DOE-RL stated that planning activities are under way for K East and K West Reactor ISS. The conceptual plan for the K East Reactor safe storage enclosure was presented by CHPRC and is in internal review. Ecology asked if DOE-RL had a government cost estimate or a rough order of magnitude cost estimate for the safe storage enclosure. DOE-RL responded that it did not have an estimate, but the estimate in CHPRC's presentation was \$20 million.

Significant Planned Actions (March through May 2018) - DOE-RL provided a brief overview of the planned actions (see pgs. 14-16 in today's handout).

Remaining Closure Operations Significant Planned Actions (March through May 2018) – DOE-RL stated that contouring of the 618-10 waste site will be completed before revegetation is done. DOE-RL noted that 618-10 is a very large area, and a subcontractor is receiving and producing the shrubs that will be used for revegetation, which will start in November 2018.

Milestone Summary – DOE-RL stated that when the 618-10 waste site closure documentation is

approved, that will be the last activity to complete M-016-00B. DOE-RL noted that the remaining milestones are on schedule.

Project Baseline Performance - DOE-RL stated that the cost and schedule variances are positive after spending \$475.9 million.

Land Disposal Restrictions Report TPA Milestone M-026-01

DOE-RL stated that the current target for receipt of Ecology's comments on the LDR full report is April 26, 2018. Ecology inquired about the last bullet on today's one-page handout that pending comment resolution completion the parties will consider of TPA changes. DOE-RL responded that the statement about TPA changes resulted from a discussion with Ecology regarding appropriate TPA changes that would align with discussion of the LDR report. DOE-RL noted that the changes are undefined at this time, and whether it would be changes to scope or timing would depend on Ecology's comments.

M-091, M-026-07B and M-092 TPA Milestones

M-091 Accomplishments (December 2017 – February 2018) – DOE-RL noted that M-091-47D was completed for this year. DOE-RL stated that there was a discussion with Ecology about not doing the annual revision to the M-091-03 project management plan (PMP) this year, due to the upcoming milestone negotiations that will override any changes to the PMP. Ecology stated that there was agreement to not revise the PMP this year. DOE-RL noted that the M-091-52 target dates were submitted to Ecology on December 28, 2017.

M-026-07B Accomplishments (December 2017 – February 2018) - DOE-RL stated that the tritium treatment technology report will be issued in the near future.

M-092-05 and M-092-00 Accomplishments (December 2017 – February 2018) DOE-RL reported that a meeting was held with Ecology earlier this week regarding the disposition path and establishing interim agreement milestones on the cesium and strontium capsules, and DOE-RL had a few action items from the meeting. DOE-RL stated that there are some uncertainties regarding the special case waste, and another meeting was to be scheduled with Ecology to discuss the issue. DOE-RL noted that another meeting has not been set for M-092, and an extension of negotiations until April 19, 2018 was just signed. DOE-RL added that a draft public participation schedule was also sent out earlier today. Ecology indicated that the parties are close to reaching a tentative agreement on the proposed interim milestones associated with M-092-00. DOE-RL expressed its agreement with the interim proposed milestones.

Milestone Summary – DOE-RL noted that all of the milestones are on schedule. Ecology requested clarification regarding the submittal for M-091-03L by 6/30/2018. Ecology stated that the milestone needs to be deleted because of the upcoming negotiations, and DOE-RL will be incorporating the milestone changes from the negotiations into the next PMP submittal in 2019. DOE-RL agreed that Ecology and DOE-RL need to initiate a change form to delete M-

091-03L.

Planned Activities (March 2018 – May 2018) – DOE-RL noted that negotiations will continue on M-091-53 to generate a TPA change request. DOE-RL stated that a total of five containers are required to be removed from Outside Storage Areas A and B by 11/30/2018 to meet M-091-52-T01, and that three containers have been removed. DOE-RL stated that it expects to meet the due date.

Central Plateau Remediation Project – TPA Milestones M-016, M-037, M-085

PUREX Tunnel 1 and 2 (December 2017 - February 2018) - DOE-RL noted that the contractor completed tunnel No. 1 demobilization in December 2017. DOE-RL stated that it is believed the grout at tunnel No. 1 is within six inches of the roof at all locations.

DOE-RL noted that the daily visual observation of tunnel No. 2 has been replaced with video surveillance. Ecology requested more detail regarding the change to video surveillance. DOE-RL responded that there are two cameras set up for surveillance. One camera is located at the south end of tunnel No. 2 at a height of about 30 feet. DOE-RL stated that the camera has a view to the other end of the tunnel and is continuously zooming in, and a hole like the one on tunnel No. 1 would be readily obvious. DOE-RL stated that another video camera is located around the end of tunnel No. 1 that can view both north and south and has zoom capabilities. DOE-RL noted that the camera is a 1080P with a 32X zoom. DOE-RL stated that the camera has motion detection capability, which was considered for use, but due to the positioning required for the camera, the decision was made to not use the motion detector capability.

DOE-RL stated that both of the cameras are set up to do a visual sweep of the entire tunnel once per 24-hour day, seven days a week. DOE-RL added that an effort is under way to set up an automatic tour on both cameras to simulate what would be done if an operator were at the controls of the cameras and allow a consistent video review of the tunnels. Ecology asked who conducts the video reviews. DOE-RL responded that the video review is done by the shift operations manager (SOM) on duty, and it consists of a single review during the shift. DOE-RL noted that the videos can go up to 50X fast forward or reverse, and by doing the 50X, it can be confirmed that a movement review was done each day. DOE-RL stated that the recordings will be kept for a certain amount of time, and a decision will be made to determine the amount of time to maintain the videos.

Ecology requested confirmation that DOE-RL's intention is to continue the video surveillance until grouting is completed on tunnel No. 2. DOE-RL agreed that the intent is to continue the video surveillance until grouting has been completed on tunnel No. 2.

PUREX Stack Sampling Accomplishments (December 2017 – February 2018) DOE-RL reported that a new probe was installed on the PUREX stack, and it was firmly attached to the probe tube on the side of the stack, removing the risk of the probe vibrating in a high wind and failing. DOE-RL noted that stack sampling pumps were replaced with pumps designed for the intended

function, and they will decrease the maintenance and surveillance requirements.

Other Facilities Accomplishments (December 2017 – February 2018) – DOE-RL stated that planned sampling on floors 1, 2 and 3 of the REDOX silo was completed. EPA initiated a discussion regarding the sampling in the REDOX silo, noting that the subject was brought up during the last quarterly meeting. EPA stated that it has not approved a sampling analysis plan (SAP), and asked what is authorizing the sampling work being done. EPA added that there is no action memorandum for the sampling. ***DOE-RL responded that it would follow up with EPA's inquiry regarding authorization for sampling in the REDOX silo.*** EPA pointed out that DOE-RL is placing itself at risk by performing work without approved documents.

DOE-RL noted that B Plant pre-filters were replaced. DOE-RL stated that the activity level on the B Plant filters and pre-filters has currently started to rise more than in the past, and DOE-RL will be following up on the details.

Canyon Stabilization Documents Accomplishments (December 2017 – February 2018) - DOE-RL stated that the documents listed in today's handout have either been submitted to the regulator or comments have been received.

Milestone Summary – DOE-RL noted that all of the milestones are on schedule or complete.

Planned Activities (March 2018 – May 2018) – DOE-RL noted that investigation activities will continue for tunnel No. 2. DOE-RL stated that there are 17 risers on the length of tunnel No. 2, and video cameras were placed into risers 3 and 4. DOE-RL stated that the cameras provided a very good picture of what is underneath those two locations and about 50 to 100 feet in either direction. DOE-RL noted that the cameras showed that the last three tanker cars that were placed in tunnel No. 2 were not pushed all the way against the rest of the cars, and are about 120 to 125 feet from where it was assumed they were sitting. The location of those three cars casts some doubt about the location of the rest of the cars. DOE-RL stated that the current plan is to place cameras in five to six locations, and to inject grout in five to six locations in tunnel No. 2.

DOE-RL stated that an evaluation is being made about whether to bring grout in from offsite, as was done for tunnel No. 1, or to build a grout plant on site similar to what was done at U Plant. Ecology asked if there is a budget for the activities associated with tunnel No. 2, including the potential for building a grout plant. DOE-RL responded that currently the funding is under a continuing resolution (CR), and there were some funds for tunnel No. 2. DOE-RL noted that there are about ten or 11 million dollars that are being used this year, and the planning was for \$20 million if the budget gets appropriated. DOE-RL added that currently about 1 ½ million dollars have been spent on tunnel No. 2.

Oregon Department of Energy (ODOE) inquired about the cost of building a batch plant for tunnel No. 2. DOE-RL responded that it did not have the number available, but building a batch plant is part of the evaluation. DOE-RL estimated that it would be close to what it cost to build the batch plant for U Plant. DOE-RL added that 20,000 cubic yards were produced for U Plant,

and 35 to 40,000 cubic yards will be needed for tunnel No. 2. DOE-RL noted that the batch plant at U Plant was taken down and everything was cleared away, so it could not be used for tunnel No. 2. DOE-RL stated that if the decision was made to build a batch plant, it would be temporary and built in a location that would not disrupt work traffic around the Waste Treatment Plant.

Ecology asked if the batch plant will be part of the conceptual and final design for grouting tunnel No. 2. DOE-RL responded that it will be part of the design. Ecology asked when the annual surveillances will be conducted this year for B Plant and PUREX. ***DOE-RL will follow up with Ecology's inquiry about the annual surveillances for B Plant and PUREX.***

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

DOE-RL stated that ORP and DOE-RL are currently development their baseline. DOE-RL reported that due to some developments within ORP and direction it was given to add to their baseline in the January 2018 time frame, there is a possibility that ORP will not be transmitting the baseline report by the June 1, 2018 due date. DOE-RL noted that the extent of the delay is not known or if there would be a delay. ORP is waiting for Washington River Protection Solutions (WRPS) to follow up with any impacts to the baseline development as a result of the additional direction.

A meeting is scheduled with WRPS this month to discuss any impacts and or potential delays. DOE-RL noted that it will not be impacted by potential ORP delays, although there may be a small delay if any TPA milestones are changed between now and August 2018. DOE-RL stated that by the next TPA quarterly milestone review in June 2018, an update will be provided on receipt of WRPS's baseline or any delays. DOE-RL noted that DOE-Headquarters' review is typically 30 days, although it could take longer and cause some delays.

Soil and Groundwater Remediation Project – TPA Milestones M-015, M-016, M-024, M-085

River Corridor Accomplishments (December 2017 – February 2018) - DOE-RL reported that the State Historic Preservation Office (SHPO) review was completed for the 100-NR-2 barrier and expansion, and workshops are being scheduled to prepare the Memorandum of Understanding (MOU). Ecology inquired about the workshop schedule. CHPRC responded that the first workshop with the Yakama Nation (YN) is scheduled for March 27, 2018. Ecology clarified that the workshops are with the YN and not with Ecology. DOE-RL responded that the workshops are with the YN for the apatite barrier work and the effort to get a Memorandum of Agreement (MOA) negotiated that would allow reinjection of the barrier. Ecology asked about the schedule for reinjecting the apatite barrier for strontium-90. CHPRC stated that the question was posed during meeting that was held this morning with MSA, and that MSA had responded that it is working on one MOA at a time, and the MOA associated with the 100-NR-2 project apatite barrier is first on the list. CHPRC added that MSA will start developing a schedule after the meeting on March 27 with the YN.

DOE-RL noted that the reason for the lengthy delay is because of the difference in perspectives between the YN and DOE-RL, and that efforts will continue to reach a resolution. Ecology acknowledged that it has been a difficult situation and commended DOE-RL for its persistent effort to reach a resolution. Ecology pointed out that there are areas of the apatite barrier where the discharge of the strontium-90 is above levels for discharge to the river, and the additional apatite injection is needed. DOE-RL concurred with Ecology's comment.

Central Plateau Accomplishments (December 2017 – February 2018) – Ecology referred to the third bullet on page 3 of today's handout, and requested clarification of the terminology regarding the remedial design investigation report. Ecology indicated that it should be a remedial design report or a remedial investigation report. CHPRC responded that the terminology is correct, and the TPA milestone that identifies the language is in M-016-183. CHPRC added that it is a post ROD remedial design investigation report to determine the best path for addressing the southeast chrome plume, whether it's an onsite treatment facility or it's pumped over to the 200 West pump and treat facility for treatment.

DOE-RL stated that drilling and sampling 22 of the 28 shallow risk assessment boreholes in 200-DV-1 has been completed. CHPRC noted that the six sections for the remaining boreholes were finished this week.

Milestone Summary – DOE-RL reported that there are several milestones now showing at risk, and change control forms will be drafted and transmitted to Ecology. DOE-RL noted that a new date was established for M-015-21A, and it is on schedule. DOE-RL referred to milestone M-015-96, and stated that a letter may be drafted for a day-for-day slip from the original due date when comments were to be received.

DOE-RL noted that all of the M-024 milestones are on schedule. Milestone M-085-70 is at risk for submittal of the RI/FS work plan for B Plant, due to funding issues. Ecology asked if this is the first time the milestone has been reported at risk. DOE-RL responded that it is the first time it has been reported at risk. Ecology initiated a discussion regarding B Plant, and referred to the Pollution Control Hearing Board (PCHB) appeal regarding the PUREX white powder. Ecology stated that a lot of DOE-RL's feedback is that the CERCLA process will address everything, but when milestones for the CERCLA process are pushed out into the future, that argument falls short.

Ecology acknowledged that DOE-RL's has budget issues, but suggested that the parties either push forward with the CERCLA process or maintain and use the approved pre-closure plans to authorize work. Ecology stated its position that the parties cannot do both. DOE-RL stated that the approach being taken with the Hanford integrated priority list (IPL) will shed light on where the challenges are. EPA reiterated its concern that DOE-RL may be doing work with no document to authorize the work, which creates risk from a compliance or regulatory standpoint. DOE-RL stated that it will address the situation if work is being done without an authorizing document.

DOE-RL pointed out that not all of the characterization is being done for the RCRA side, and adherence to 435 also needs to be considered. Ecology stated that an IPL will help with considering some of the issues, and it will help make a decision whether or not to push forward with CERCLA. Ecology added that if the parties don't push forward with CERCLA, there would still be budget consequences because of having to follow the work plans. DOE-RL agreed that there are funding aspects, but if the funding isn't allocated, it doesn't matter whether the parties follow RCRA or CERCLA. Ecology clarified its position that CERCLA could not be used to authorize work, and reiterated that the Ecology-lead approved pre-closure plans should be used to authorize work.

Planned Activities (March 2018 - May 2018) – Ecology referred to the 100-D/H Reactor Area ROD, and asked if there will be any other communication with the YN, or if the discussions are to be completed by the end of March 2018. Ecology noted that the original agreement was to complete discussions in six months, which is the end of March. DOE-RL responded that there has been discussion with the attorneys about what the YN has been discussing. Ecology expressed the concern that if there are changes to the ROD or other changes, the comments and comment responses would need to be looked at again for any changes. DOE-RL agreed that if there are any changes it would require a review process. DOE-RL added that the YN has made a request to work through the 300 Area similar items in an effort to group them together as one piece for the 300 Area, 100-D/H, and 100-BC.

ODOE pointed out that the plan is to work the MOUs individually. DOE-RL stated that the response to the MOU that is being reviewed would be applied across long term, and that is what is being discussed. ODOE referred to the third activity for the River Corridor regarding field activities for 300 Area uranium sequestration, and asked what field activities would be done in the 300 Area this year. CHPRC stated that the goal is to implement the sequestration that is currently planned in the approved RD/RA work plans. The work plan schedule has the start of phosphate injection around the end of September 2018, to be timed with the water level that is needed. DOE-RL stated that the negotiations and discussions regarding the YN request for additional scope will proceed on a parallel path.

Richland Operations Office Key Documents List

DOE-RL provided an updated decisions documents list and noted that the new status is highlighted in blue under the comments section.

PFM Closure Project - TPA Milestone M-083

DOE-RL stated that the information in today's handout is for the past months, and an update relative to current activities would be provided today. DOE-RL noted that milestone M-083-00 was missed, and a draft demolition plan strategy is being prepared to present to the DOE expert panel. The demolition strategy will be a phased approach, and it will start with low material at risk (MAR) or low activity waste and move to the higher level waste.

DOE-RL stated that the demolition site is being stabilized by removing the containerized waste and the super sacks. The next step will be to move to the north side and reduce debris that has been size-reduced, which is low activity waste to almost clean type of waste. DOE-RL noted that it will be assumed it is low level waste when it is cleaned out. Following that, the crew will move to the south side to get similar waste cleaned out. The next phase would be demolition of 234-5Z. DOE-RL noted that there will be a pause in between each of these phases to conduct lessons learned and to ensure the appropriate controls are in place that have been revised.

DOE-RL stated that the last piece of demolition would be the remote mechanical A and C lines (RMA/RMC) where the plutonium metal was produced. DOE-RL noted that those lines have a higher risk with potential holdup. DOE-RL stated that the final piece of cleanup would be the PRF rubble pile, and a briefing will be provided to the regulators before that work proceeds.

DOE-RL noted that responses were provided to the letters received from EPA, Ecology and the Department of Health. DOE-RL stated that bi-weekly status meetings are being held with the regulators, and the intent is to continue the dialogue in an effort to keep the regulators fully informed. DOE-RL pointed out that it is in uncharted territory with Article 32 being invoked, and the goal is to ensure agreement with the regulators and not force a legal issue because of a disagreement about the path forward. DOE-RL stated that the issues need to be resolved at the project manager level to ensure the work is done safely and minimize the risk of having a partially demolished building in place and a high MAR demolition pile. DOE-RL expressed appreciation to Ecology and EPA for their support while maintaining their independence and bringing forward their views.

Project Baseline Performance – DOE-RL stated that the information in today's handout is skewed because there are no new appropriated funds in fiscal year 2018, and the project is relaying on carryover. DOE-RL stated that there was \$54 million, and after the end of February 2018, about \$28.5 or \$28.6 million was spent, with about \$26 million remaining. The contractor has identified another \$80 million, in addition to the \$26 million. DOE-RL stated that if the project goes into fiscal year 2019 or 2020, carryovers are planned for those years.

DOE-RL stated that in an effort to reduce cost to the project, workers have been reassigned to other work, with the understanding the workers would be called back for the demolition. That effort has cut the cost down from about eight to nine million dollars to about five million dollars.

DOE-RL referred to the M-016-193 milestone that was discussed earlier today (see Soil and Groundwater remediation project), and stated that the issue is more related to work authorization than funding. DOE-RL stated that the concern is that two of the wells are within the revised work authorization boundary of PFP, and it doesn't make sense to have a potential contaminated drill rig. DOE-RL added that all of the work scope under M-016-193 has been completed with the exception of the three wells that are located around U Plant. DOE-RL stated that in terms of funding, some of the 2019 milestones may be impacted by what is done in 2018, and an effort will be made to provide Ecology a complete list of milestones that could potentially be impacted.

DOE-RL added that at this point, there will be an impact to groundwater milestones.

Status – DOE-RL noted that most of the bulleted information listed in today's handout is old information, and provided an update on the current status. DOE-RL stated that 11 more non-detect or negative results were received on workers. A total of 281 bioassays were requested by the workers, with 269 coming back as non-detects or negative, 11 were positive and one is pending, which was a late submittal to the lab and the results should be available next Monday (3/19/18). DOE-RL stated that the 11 positive results were from workers assigned within the PFP footprint, and none of the bioassay results outside of the PFP footprint came back as positive. DOE-RL stated that the highest result was 13 millirems for a radiological control technician. The remaining results were eight workers between one and ten millirem, and two with less than one millirem each.

DOE-RL stated that in terms of cleaning up the work site, 11 of the 20 1800-TLs have been shipped to the North Outside Storage Area, and three were shipped today. The remaining six 1800-TLs will be shipped out next week.

DOE-RL stated that in an effort to ensure the safety of the workers, they are not scheduled for overtime unless it's necessary for surveys, etc. DOE-RL stated that the work force has been completely removed off the PFP footprint during the final stages, and the trailers have been moved by the water treatment plant. The crew is in the process of gathering the equipment needed to post up the new stabilization area. DOE-RL stated that PNNL is revising the air model, and the draft is due next week, as well as the particle analysis that was done at the 222-S lab using its microscope. DOE-RL explained the reason for doing the particle analysis is if the particle size is ten microns or less it's respirable, but if it's greater than ten microns there's a difference in mechanism for how long it stays in the body and the assigned dose.

DOE-RL stated that the root cause evaluation is being reviewed, and the first meeting with the regulators was held to discuss the evaluation. DOE-RL added that a presentation to the regulators is planned next week on the concepts of the demolition strategy that were briefly outlined at the beginning of today's discussion. DOE-RL stated that the demolition time frame will not be established until an understanding of what the control sets should be.

DOE-RL stated that the Hanford.gov website for PFP has been revised to be more user-friendly, with sections that include expert panel, maps, and daily reports. The website is being updated twice a week on Mondays and Thursdays.

Map – DOE-RL stated that the map delineates the contamination that resulted from the December 15, 2017 release event, and it was provided for continuity in today's presentation.

Regulatory – DOE-RL noted that bi-weekly status meetings are being held with the regulators, and because of Article 32 being invoked, the intent is to obtain the regulators' input and concurrence on the demolition strategy. DOE-RL noted that Ecology, EPA and DOH are included in the meetings, which improves efficiency by having all the essential people attending

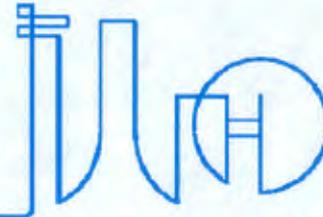
the meeting to discuss and provide answers to issues.

PFPP Access Control Boundary Version 3 – DOE-RL stated that the last slide on today's handout is the access control boundary that is being established. DOE-RL noted that the dark red and green colored areas are controlled by WRPS, which has its own radiological control program, and they are following that program for their specific projects. DOE-RL noted that before WRPS workers enter the area, they notify the shift office in case of a safety announcement.

Ecology asked if the draft air model that PNNL is revising will cover 234-5Z and PRF. DOE-RL responded that it will cover both. DOE-RL noted that when the interim boundaries were established, it was assumed there was still full source term. DOE-RL stated that when the super sacks are removed, that will reduce by 80 percent the anticipated MAR left at PFP, but does not include what's left in the rubble pile or the RMA/RMC lines, which is to be containerized and moved offsite. Ecology asked if the draft air model could be shared with the regulators by the end of this month. DOE-RL responded that the draft air model will have to go through the validation process by independent experts, and it will be shared with the regulators as soon as possible. Ecology asked if the draft air model will also be shared with the expert panel as part of the discussion about resuming demolition. DOE-RL responded that it will be shared with the expert panel as part of that discussion.

DOE-RL noted that preliminary results on the particles from about six swipes taken during the December 15 event were greater than ten microns, and some of the swipes were close to 100 microns, which is visible, and several were around 50 to 60 microns. DOE-RL added that heavy particles bounce along the ground and then break off into smaller particles. DOE-RL stated that the reason for obtaining the information was to ensure the proper enhanced air monitoring and ground monitoring are in place. DOE-RL noted that the metal cookie sheets are being surveyed twice a day. DOE-RL stated that a technical approach has not been identified for the ground surface contamination, and realtime monitoring to the ground that is more reactive will be done along with increased frequency of the surveys for surface contamination spread.

Ecology asked if the estimate for the final root cause analysis to be completed is still by the end of March 2018. DOE-RL responded that the end of March is still the target, and the analysis is in review with the DOE expert panel. DOE-RL added that the first week in April is a more realistic target date for issuing the final root cause analysis. DOE-RL indicated that the expert panel may withhold their judgment based on the air model, or it may be an iterative process with comment resolution.



100K Sludge Removal Project

TPA Milestone Series: M-016

December – February 2018

March 15, 2018



Columbia River White Bluffs

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



Sludge Removal Project Accomplishments

December 2017 – February 2018

Construction Completion

- The final Construction Completion Document was approved on December 14, 2017 and the system/facilities were turned over to K Basin operations.

Engineered Container Retrieval and Transfer System (ECRTS) Equipment Procurement

- Receipt of last 3 Sludge Transport and Storage Container (STSC) assemblies required for sludge removal was completed on January 29, 2018.

ECRTS Readiness Activities

- Completed ECRTS Operational Acceptance Testing and declared readiness to start the Contractor Operational Readiness Review (CORR) on January 22, 2018.
- CORR was initiated on January 23, 2018.

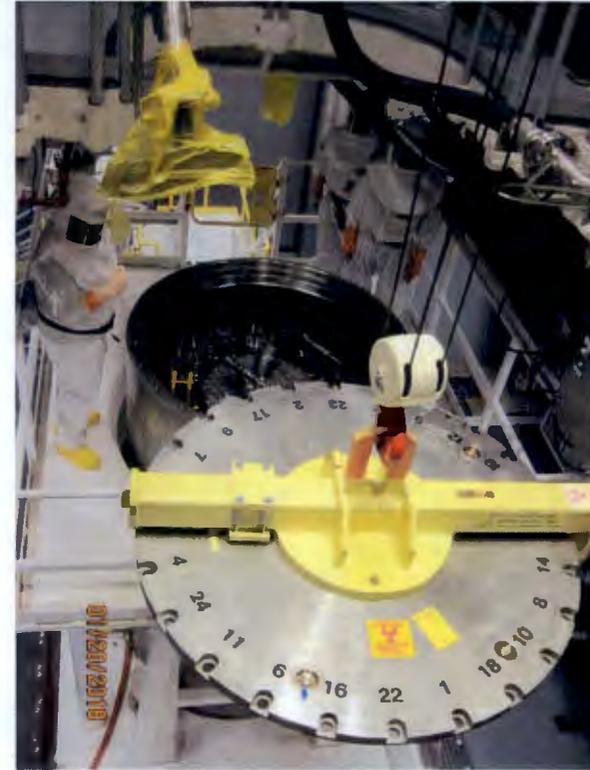


Accomplishments

December 2017 – February 2018



Operations Personnel Disconnecting STSC Process Connections



Installation of the STS Cask Lid Following STSC Inerting Operations



Accomplishments

December 2017 – February 2018



STS Trailer Arriving at the 105KW Annex



Preparing to Make Mechanical Connections to STSC



STSC 422-424 Prepared for Delivery to T Plant



Installing the STS Cask Vent Port Tool to Vent Residual Pressure from the Cask



Accomplishments

December 2017 – February 2018

Basin Operations

- Continued with basin debris characterization and sampling.

T Plant Readiness Activities

- Completed the Readiness Assessment for the receipt and storage of K Basin sludge on December 21, 2017.
- Approval Letter for receipt of sludge at T Plant was issued by CHPRC on February 08, 2018.



Milestone Summary

Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions for all Non-Tank Farm & Non-Canyon OUs			
M-016-175	9/30/2018	Begin Sludge Removal from 105-KW Fuel Storage Basin	On Schedule
M-016-176	12/31/2019	Complete Sludge Removal from 105-KW Fuel Storage Basin	On Schedule

Project Baseline Performance (Contract to date through February 2018)

RL-0012 Spent Nuclear Fuel Stabilization and Disposal	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 Total	719.5	719.1	687.4	(0.4)	31.7	740.4	713.3	27.1	1.00	1.05



Planned Activities

March - May 2018

ECRTS Operational Readiness

- Complete 105KW Basin/Annex Contractor Operational Readiness Review (March 2018).
- Perform DOE Operational Readiness Review (April 2018).
- Commence Sludge Removal (May 2018).





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”.
 - Due 3/31/98 (and biennially thereafter).
- M-035-09K due 3/31/2018
 - Schedule extended to 6/30/2018



Milestone Accomplishments



- Audited email/account notification and expiration process
- Eliminated OUO aspects on the VHCAR form
- Updated DOE/RL-93-69 to include:
 - Corrected notification process for expiring email/HLAN accounts
 - Refined Ecology HLAN account renewal process
- Upgraded PopFon for Ecology to have access to contact information, managers and office location
- Corrected the HLAN expiration date to coincide with the badge expiration date

Issues and Challenges

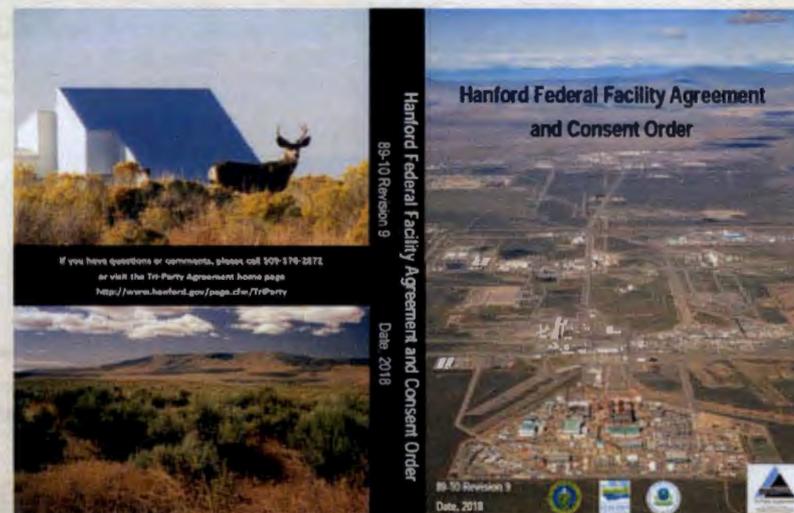


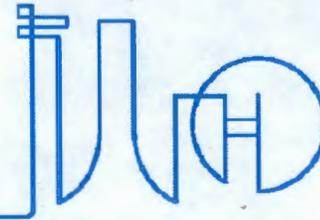
- Gaining Regulator access to IDMS files
- Prolonged clearance process of requested reports
- Referencing documents that are not available for Regulator review

Planned Work Scope



- Publish Rev. 6 of DOE/RL-93-69, *Tri-Party Agreement Databases, Access Mechanism, and Procedures*
- Develop a strategy for expediting clearance of recurring documents and reports





River Corridor Closure - RL-41

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

December – February 2018

March 15, 2018



U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

Columbia River White Bluffs



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618-10 Burial Ground

Significant Accomplishments (through February 2018)

- Continued backfill of the 618-10 Burial Ground.
- Continued to prepare the closeout verification package (CVP) for the 618-10 Burial Ground.
- Continued demobilization of site infrastructure and equipment.
- Issued the CVP and waste site reclassification form for the 316-4 Waste Site.



March 2018 – May 2018 Significant Planned Actions

- Complete backfill of the 618-10 Burial Ground.
- Continue Project Demobilization activities.



300-296 Soil Removal

Significant Accomplishments (December 2017 through February 2018)

- Completed the first entry into C-Cell in over 15 years. Completed size reduction and debris removal from C-Cell
- Completed the installation of the three Master Slave Manipulators required for training at the Mockup
- Awarded the contract for the 324 Rad Assay System



Waste container removal from Airlock

- Completed change room modifications to support increased crew sizes required for the balance of the project.
- Continued 324 interference removal activities, and fabrication of Mockup equipment systems.



300-296 Soil Removal

Significant Planned Actions (March through May 2018)

- Receive and install the Remote Excavator Arm (REA) System, Camera and Lighting System, and Transfer Mechanism in the Mockup
- Initiate A-Cell debris removal
- Perform partial Geo-Probe removal
- Progress design for structural modifications to the 324 Bldg.
- Progress 324 Bdg. facility modifications (interference removal, cell sealing, and core drilling)



Fabricated Remote
Excavator Arm



Cell cleanout



100K Closure Project

Significant Accomplishments (through February 2018)

100K Soil Remediation

- Backfill of the 183.2 K East Sedimentation Basin continued and is 80% complete.
- Excavation of radioactive waste crib, Waste Site 116-KE-2, continued and is 35% complete.
- Completed verification sampling of waste sites 1607-K1, 100-K-107, 100-K-108 with satisfactory results, and began preparation of closure documentation.



100K Closure Project

Significant Accomplishments (through February 2018)

K West Basin Deactivation & Demolition

- Garnet Filter Media Removal System (GFMRS)
 - Columbia Energy and Environmental Services fabrication of GFMRS components is essentially complete. All equipment with the exception of the eductor containment box, which awaits calibration of mass flow meters, has been received at MASF. See photos on next page.
 - American Boiler Works (ABW) fabrication of four STSC units is 65% complete.
 - The work package to cut a hole in the garnet filter number three shield enclosure to allow work on the actuator for sluice outlet valve VW-305 is complete and ready for a formal review. Work should start in the K West Basin in early February.



100K Closure Project



GFMRS Control Panels



Valve Skid Rack Assembly



Dilution & Insertion Spool Assemblies & HIH Transition Assembly



100K Closure Project

Significant Accomplishments (through February 2018)

K West Basin Deactivation & Demolition

- Sand Filter Media Removal System (SFMRS)
 - Successfully performed early concept runs for the filter vessel sparge and retrieval heads. SFMRS concept development and testing continues, and spray nozzle modification evaluations continue to optimize system performance.



100K Closure Project

Significant Accomplishments (through February 2018)

K West Basin Deactivation & Demolition

- KW Basin Characterization
 - MASF has developed a settled solids sampling process for the floor of the K West Basin. The process evacuates a sample chamber deployed to the bottom of the basin using a pole tool. The process will be used to collect settled solids for isotopic analysis.
 - Extracted first of 9 cores for future PNNL analysis of isotopic content in KW Basin floor paint and concrete



100K Closure Project

Current Status of Below Water Debris Characterization

K West Basin Deactivation & Demolition

- KW Basin Characterization

- No further in-basin data collection this month with Operations priority placed on completing Contractor Operational Readiness Review.
- Completed breakdown of remaining characterization work into discrete, “punchlist”, activities to be integrated with sludge removal STSC filling/decanting, connect/disconnect, and shipping activities.
 - In-basin characterization work resumes after STSC #1 is shipped to T Plant in mid-June.
 - Worst-case integrated schedule indicates that in-basin characterization activities will push well into FY19.



100K Closure Project

Current Status of Below Water Debris Characterization

K West Basin Deactivation & Demolition

- KW Basin Characterization

- Risk of Remote Handled Waste Packaging Required During Deactivation
 - Mitigating action pursued in conjunction with FY18 characterization work scope and follow-on FY19 planning.
 - Premature to formulate material disposition options until characterization activity is completed.
 - If there is a need to process and package RH TRU, such packaging would:
 - Comply with HNF-EP-0063 SWAC or approved exception
 - Be provided sheltered storage
 - Not require further processing by Permafix NW of M91 facility
 - Be amenable for retrieval and final Central Characterization Project certification activity



100K Closure Project

Significant Accomplishments (through February 2018)

Ancillary Facility Deactivation & Demolition.

- Continued asbestos removal in the 165K East power control house.
- Started planning the demolition of 166K East Bunker C fuel storage tanks and remediation of Waste Site 130-KE-2 beneath the basin.



100K Closure Project

Significant Accomplishments (through February 2018)

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

- Initiated K East Reactor safe storage enclosure installation planning effort.
- Prepared and presented case to DOE-RL for accelerating completion of K East Reactor SSE.



Engineers entered and inspected the interior of the K East Reactor Building



100K Closure Project

Significant Planned Actions (March through May 2018)

100K Soil Remediation

- Complete backfill of 183.2 K East Sedimentation Basin
- Complete excavation of radioactive waste crib, waste site 116-KE-2
- Start excavation of waste site 100-K-47:1

K West Basin Deactivation

- Garnet Filter Media Removal System (GFMRS) and Sand Filter Media Removal System (SFMRS)
 - Receive all GFMRS components from CEES
 - Complete STSC vessel fabrication and begin component installation
 - Install new actuator on Garnet Filter sluice outlet valve V-305
 - Advance SFMRS conceptual design



100K Closure Project

Significant Planned Actions (March through May 2018)

- K West Basin Characterization
 - Complete debris field surveys in the West Bay of K West Basin.
 - Conduct K West Basin floor sampling using the floor coring sample tool developed at MASF and deliver samples to PNNL for isotopic analyses.
 - Begin refined characterization surveys of items identified during debris field surveys utilizing the gamma camera.
 - Complete development of a settled solids (residual sludge) sampling process.



100K Closure Project

Significant Planned Actions (March through May 2018)

Ancillary Facility Deactivation & Demolition

- Continue asbestos removal from the 165K East power control house.
- Develop a preliminary plan for the demolition of the 166K East Bunker C fuel storage tanks and Waste Site 130-KE-2 remediation.

K East Reactor ISS

- Continue planning and begin development of an RFP for the design modification/build of the K East Reactor Safe Storage Enclosure.



Remaining Closure Operations

2017 Significant Accomplishments (through February 2018)

- EPA approved closure of Waste Sites 600-393 and 600-403.
- Completed revegetation of Waste Sites 600-403 and 600-393.



Remaining Closure Operations

Significant Planned Actions (March through May 2018)

- Grow shrub tubelings in support of FY19 618-10 revegetation. The shrubs will be received and planted during the FY19 revegetation effort in the 618-10 area.



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	On Schedule
M-016-85	9/30/2021	Complete remedial actions for 300-296 and final disposition for 324 building and Ancillary buildings	On Schedule
M-016-85A	9/30/2019	Complete remote excavation of the 300-296 waste site	On Schedule
M-016-86	9/30/2021	Complete remedial actions for 618-11 burial ground in accordance with DOE/RL-2014-13-ADD1	On Schedule
M-016-178	12/31/2019	Initiate Deactivation of 105-KW Fuel Storage Basin	On Schedule
M-016-181	9/30/2023	Complete Deactivation, Demolition & Removal of 105-KW FSB	On Schedule
M-089			
M-089-00	TBD	Closure of Mixed Waste Units in 324 building REC B&D cells and High & Low level vaults	On Schedule
M-093			
M-093-28	12/31/2019	Submit Change Package for Proposed Interim Milestones for 105-KE/KW Interim Safe Storage	On Schedule
M-094			
M-094-00	9/30/2018	Complete disposition of all 300 Area Surplus Facilities excluding the 324 Building	Complete



Project Baseline Performance

Contract to Date through February 2018

RL-0041 Nuclear Facility D&D River Corridor	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	535.7	536.5	475.9	0.8	60.6	685.0	607.2	77.8

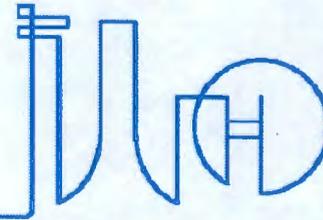
Numbers are rounded to the nearest \$0.1 million.



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 ongoing
 - The Parties discussed a path forward and schedule for TPA primary document review process completion during the February 22 PMM
 - Ecology is now targeting April 26 to provide complete comment response package to DOE
 - Pending comment resolution completion, the Parties will consider TPA changes



Solid Waste Stabilization and Disposition Project

RL-0013 TPA Milestone Series: M-091, M-026, and M-092

December – February 2018

March 15, 2018



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

Columbia River White Bluffs



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Accomplishments

December 2017 – February 2018

- M-091-47D Certify or Treat 280-m³ of TRUM/MLLW:
 - Completed 280 m³ of the 280 m³.
 - Completed 141.15 m³ toward next objective (as of February month end).
- M-091-03 Annual Revision of Project Management Plan:
 - Revision 21 of Plan submitted to Ecology on February 6, 2018 (addressing comments from previous submittal).
- M-091-52 Target Dates:
 - Established on December 28, 2017 by Federal Facility Agreement and Consent Order Change Control Form M-91-17-02.
- M-026-07B Tritium Treatment Technology:
 - Review of 2017 technology update performed.
 - Draft letter ready for submission to RL for review.



WH-76-630 container inspection at PFNW



WH-76-630 empty disposal container



M-092-05 and M-092-00

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

- **December 2017 – February 2018 Accomplishments**

- DOE, WDOE, and EPA have signed an Agreement in Principle to modify the due dates for milestones M-092-00 and M-092-09.
 - Proposed interim milestone, Milestone M-092-21 will address the movement of the Cs/Sr capsules to a new interim dry storage facility.
 - Proposed interim milestone, Milestone M-092-22 will address Ecology's commitment to develop and issue the dangerous waste permits that are needed to support capsule movement and interim storage.

March – May Planned Activities

- Continue negotiations.



Milestone Summary

Milestone	Due Date	Description	Status
M-091			
M-091-47D	9/30/2018	Submit change request to establish next two TRU/MLLW annual certification/disposal milestones.	On Schedule
M-091-52	12/29/2017	Submit change request with target dates for new/modified capabilities to process	Complete
M-091-03L	6/30/2018	Submit Revision Of TRUM Waste and MLLW PMP To Ecology	On schedule
M-091-53	9/30/2018	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	On Schedule
M-091-52-T01	11/30/2018	Remove 5 MW containers from Outside Storage Area (OSA) A and/or Outside Storage Area B	On Schedule
M-091-03M	6/30/2019	Submit Revision of TRUM Waste and MLLW PMP to Ecology	On Schedule
M-026			
C-026-07D	3/31/2019	Evaluation of Tritium Treatment Technology to EPA & Ecology	On Schedule



Project Baseline Performance through February 2018

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	689,615.8	689,988.3	626,873.8	372.4	0.1%	63,114.4	9.1%	734,268.7	668,616.7	65,652.0

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
Central Waste Complex	96,532.2	96,341.3	95,266.6	-0.2%	1.1%
Waste Receiving and Processing Facility (WRAP)	50,989.7	50,989.7	48,631.6	0.0%	4.6%
T-Plant	116,121.4	116,049.1	96,852.8	-0.1%	16.5%
Mixed Low Level Waste Treatment	43,182.5	43,182.5	37,200.3	0.0%	13.9%
TRU Waste Retrieval	99,991.6	99,991.6	112,253.3	0.0%	-12.3%
TRU Waste Repackaging	93,929.0	96,068.6	87,505.9	2.3%	8.9%
TRU Waste Disposition	32,190.3	32,129.2	23,634.3	-0.2%	26.4%
Project Management	156,679.0	155,236.2	125,529.0	-0.9%	19.1%

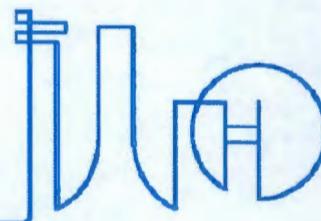


Planned Activities

March – May 2018

- M-091-47D TRUM/MLLW Treatment:
 - Met volume processed, August 8, 2017. Issue the TPA milestone completion letter along with the required TPA change proposal to establish the next two annual interim milestone objectives.
- Continue waste processing toward next objective.
- M-091-53
 - Initiate analysis and draft TPA change request.
- Remove mixed waste containers from OSA A and/or OSA B in support of M-091-52-T01.





Central Plateau Remediation Project RL-40

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

December – February 2018

March 15, 2018



U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

Columbia River White Bluffs



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PUREX Tunnel 1 & 2

December 2017 through February 2018

- Tunnel #1 Contractor demobilization completed 19 Dec 2017.
- Completed PUREX Tunnel Corrective Action #3 for the administrative order submitted 8 Dec 2017.
- Daily visual observation of PUREX Tunnels converted from physically walking the Tunnels to video surveillance.
- Commenced initial planning for Tunnel #2 Stabilization.



PUREX Stack Sampling Accomplishments

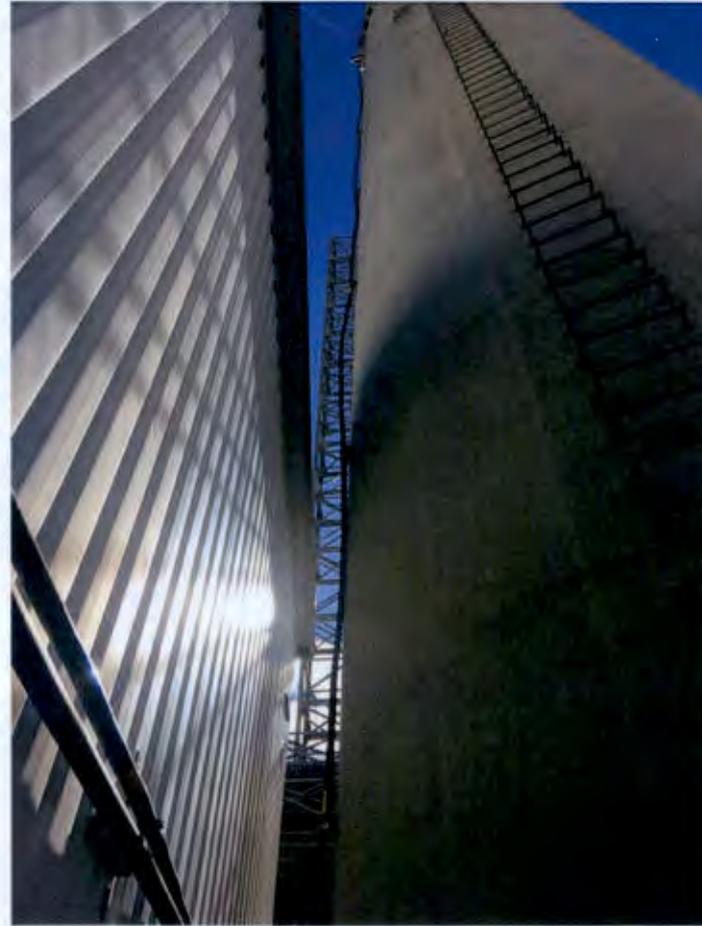
December 2017 through February 2018

- Completed the fabrication of the record sampler and vacuum pump cabinets.
- Completed NEC Inspection of the electrical system modifications.
- Completed installation, testing and system start-up of the PUREX Stack Sampling System replacement completed 1 Feb 2018.
- Demobilization and close-out of the Stack Sampling construction contractor completed 8 Feb 2018.



PUREX Stack Sampling Accomplishments

December 2017 through February 2018 (cont.)



Other Facilities Accomplishments

December 2017 through February 2018

- Completed planned sampling on floors 1, 2 and 3 of the REDOX Silo.
- Completed all planned tank and vessel inspections on floor 1, 2 and 3 of the REDOX Silo.
- Completed performance of annual radiological surveys for RARA / WIDS Sites.
- Completed waste removal from the REDOX Sample Gallery.
- Replaced B Plant pre-filters from ACT-001 and ACT-002 (second round) after restoring ventilation system following the pre-filter and HEPA replacement in November.



Sampling of tanks in the REDOX Silo



Removal of pre-filters from ACT-002 filter bank



Accomplishments

December 2017 through February 2018

Canyon Stabilization Documents

- Submitted to Regulators:
 - DOE/RL-2016-15 PUREX Engineering Evaluation/Cost Analysis (EE/CA), Draft B
 - DOE/RL-2016-46 Tier 2 B Plant Removal Action Work Plan (RAWP), Rev 0
 - Proposed permit modifications for PUREX Tunnel #2 stabilization.
- Received from CHPRC:
 - DOE/RL-2016-14 B Plant EE/CA, Draft B
 - DOE/RL-2016-52 REDOX Action Memorandum (AM), Draft A
 - DOE/RL-2017-05 REDOX Sample Analysis Plan (SAP)
 - DOE/RL-2017-06 REDOX RAWP, Decisional Draft (re-submitted)
- In Development Nearing Completion:
 - DOE/RL-2016-53 PUREX AM



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	On Schedule
M-016-250C	3/31/2018	DOE shall submit a 3-year rolling prioritized schedule to implement waste site removal actions	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	On Schedule
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



Project Baseline Performance through February 2018

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	184.6	182.3	174.5	-2.3	7.8	219.1	213.8	5.3	0.99	1.05
ARRA	285.5	285.5	266.5	0	19.0	285.5	266.5	19.0	1.00	1.07
Total	470.1	467.8	441.0	-2.3	26.8	504.6	480.3	24.3	1.00	1.06

Numbers are rounded to the nearest \$0.1M



Planned Activities

March – May 2018

Minimum Safe/Maintenance Activities

- Continue investigation activities for PUREX Tunnel 2
- Complete conceptual design for PUREX Tunnel 2 stabilization
- Complete the 400 Preventive / Corrective Maintenance Activities for the Central Plateau.
- Continue surveillances in the 400 Area.
- Perform breaker preventative maintenance at REDOX.
- Perform breaker preventative maintenance at U Plant.



Planned Activities

March – May 2018

Canyon Stabilization Documents

- Ecology approvals:
 - DOE/RL-2016-46 Tier 2 B Plant RAWP
 - DOE/RL-2017-05 REDOX SAP
 - DOE/RL-2016-15 PUREX EE/CA, Draft A
 - DOE/RL-2016-14 B Plant EE/CA, Draft B
 - DOE/RL-2015-70 276-BA RCRA Closure Plan
- RL/Ecology Reviews:
 - DOE-RL-2015-72 PUREX North RCRA Closure Plan
 - DOE-RL-2015-71 PUREX AMU RCRA Closure Plan
 - DOE/RL-2017-47 Tier 2 200 East Area Miscellaneous Facilities SAP
 - DOE/RL-2016-50 Tier 2 200 East Area Miscellaneous Facilities RAWP
 - DOE/RL-2017-45 Tier 2 B Plant SAP



Hanford Lifecycle Scope, Schedule and Cost Report
TPA Milestone M-036-01 Quarterly Performance Report

March 15, 2018

Shannon Ortiz, DOE-RL Project Manager

1. MILESTONE DESCRIPTION AND DELIVERABLE

- The U.S. Department of Energy (DOE) shall prepare and submit to the U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology) a report setting out the lifecycle scope, schedule and cost for completion of the Hanford Site cleanup mission.
- The initial Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) was submitted to DOE on July 25, 2011, and subsequent reports to 2016 were due January 31 of each year.

2. CONTRACTOR PERFORMANCE

- The contractor responsible for the Lifecycle Report is Mission Support Alliance, Portfolio Management.
- There were no performance issues.

3. SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

- The Lifecycle Report Project Managers Meeting (PMM) held on March 1, 2018 reviewed a draft Interagency Management Integration Team (IAMIT) Determination for M-036-01 PMM documentation and agreed that the Determination could be reviewed at the next IAMIT meeting.
- The RL planning case is being updated for use in the 2019 Lifecycle Report.
- The ORP baseline update for use in the 2019 Lifecycle Report has been delayed by re-planning efforts from the 45-day review and other DOE-HQ initiatives (e.g., tank-side cesium retrieval [TSCR] replacing the Low Activity Waste Pretreatment System [LAWPS], TRU tank retrieval and C Farm closure).

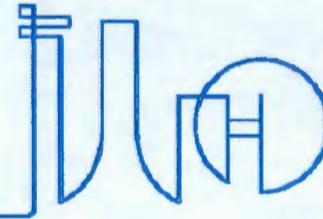
4. SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

- ORP and RL will assess the path forward for the ORP baseline update and potential schedule impacts to developing the 2019 Lifecycle Report.
- The next Lifecycle Report PMM is scheduled for June 13, 2018

5. STATUS AND ISSUES

- Budget/Cost Status - No major issues identified.
- Issues
 - ORP expects to know more before the next PMM, but the delay in updating their baseline may impact the schedule for developing the 2019 Lifecycle Report.
 - At the March 1, 2018 PMM, Ecology stated that ORP should select one of the 11 scenarios presented in the *River Protection Project System Plan, Rev. 8* (ORP-11242) for inclusion in the 2019 Lifecycle Report.
- Non-TPA Regulatory Issues/Potential Impacts to TPA - No major issues identified.





Soil and Groundwater Remediation Project

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

December – February 2018
March 15, 2018



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

Columbia River White Bluffs



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Accomplishments – River Corridor December 2017 – February 2018

- Completed State Historic Preservation Office review of the 100-NR-2 permeable reactive barrier reinjection and expansion cultural resource review. Workshops to prepare the Memorandum of Understanding are being scheduled.
- Submitted two white papers to Ecology and EPA for review associated with the 100-N Remedial Investigation/Feasibility Study.
 - One recommends cleanup criteria for the Columbia River shoreline/riparian zone for Sr-90.
 - One evaluates a Technical Impracticability (TI) Waiver versus Monitored Natural Attenuation approach for strontium-90 contaminated groundwater.

100-N River Shoreline Site



Accomplishments – Central Plateau December 2017– February 2018

- Issued the Rev 0, 200-BP-5 Removal Action Work Plan.
- Collaborated with Ecology and EPA to develop the feasibility study/proposed plan strategy for an Interim ROD for uranium and Tc-99 plumes in the 200-BP-5 and 200-PO-1 OUs.
- Completed installation of all 11 southeast chromium plume investigation wells, and initiated preparation of the remedial design investigation report.
- Completed drilling two of the five remaining 200-UP-1 remedy performance monitoring wells.
- Completed connection of two additional injection wells for the 200 West P&T Facility.



200-UP-1 Well Drilling

200-UP-1 Downhole Geophysical Logging



Accomplishments – Central Plateau December 2017– February 2018

- Completed the Deep Vadose Zone Treatability Test Report for Soil Desiccation for the Hanford Site Central Plateau.
- Completed field preparation for the Uranium Reactive Gas Sequestration treatability test. Evaluating optimum time to conduct the test.
- Completed preparation of the annotated outline for the 200-DV-1 Operable Unit, Evaluation of Deep Vadose Zone Treatability Studies and Technologies Report.
- Completed drilling and sampling from 22 of the 28 shallow risk assessment boreholes for the 200-DV-1 Operable Unit.



Uranium Reactive Gas Sequestration Field Site

Collection of 200-DV-1 Shallow Soil Samples



Milestone Summary

Through FY19

M-015-00			
M-015-92A	7/31/2018	Submit RCRA FI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	On Schedule
M-015-96	8/31/2018	Submit 100-OL-1 RI report and change request for FS report to Ecology	On Schedule
M-015-93C	9/30/2018	Initiate characterization of the 200-SW-2 OU unlined landfills	At Risk
M-015-21A	3/31/2019	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology	On schedule
M-015-98	6/30/2019	Complete remedial investigations of U Plant wastes sites located in 200-WA-1 in accordance with WP	At Risk
M-015-99	12/31/2019	Complete remedial investigations of PFP wastes sites located in 200-WA-1 in accordance with WP	At Risk
M-016-00			
M-016-193	9/30/2018	Investigate SE Chromium Plume per 200-UP-1 RD/RAWP	At Risk



Milestone Summary

Through FY19

Milestone or Target Date	Due Date	Description	Status
M-024-000			
M-024-58K	6/1/2018	Initiate Discussions of Well Commitments	On Schedule
M-024-69-T01	8/1/2018	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-69	12/31/2018	DOE shall complete the construction of all wells listed for calendar year 2018 and before	On Schedule
M-024-70	12/31/2019	Complete Construction of All Wells Listed for CY 2019 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	At Risk

RL-30 Project Baseline Performance

Contract to Date Through February 2018

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	1,441.0	1,434.1	1,409.0	-6.9	-0.4%	25.1	1.8%	1,564.5	1,534.4	30.1

Numbers are rounded to the nearest \$0.1 million. Period of performance 10/1/2008 through February 2018



Planned Activities

March - May 2018

River Corridor

- Issue the 100-D/H Reactor Area ROD
- Issue the Rev. 0 100-BC-5 RI/FS
- Commence field activities for 300 Area uranium sequestration
- Initiate well drilling at 100-KR-4

Central Plateau

- Issue Rev. 0 200-BP-5 RI Report/ 200-PO-1 RI Addendum
- Initiate preparation of the 200-BP-5/200-PO-1 FS Report
- Complete installation of the two 200-UP-1 performance monitoring wells
- Complete the 200-DV-1 shallow characterization boreholes
- Continue collaborative preparation of the 200-EA-1 RI/FS WP

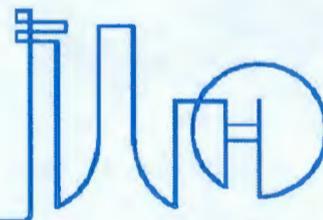


TPA Decision Document List

	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	RF/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RF/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	
3	200-EA-1 200 East Inner Area	TSD - Closure Plans for 207-A South Retention Basin, 216-A-29 Ditch, 216-A-368 Crib, 216-A-37-1 Crib, 216-B-63 Trench, and the Hexone Storage and Treatment Facility (276-S-141/142)	M-037-10: Complete Closure for 6 Specified TSD Units	9/30/2020	TBD	M. Kamal	M. Hickey	N. Menard	Ecology	207-A South Retention Basin: Closure complete and approved. Remaining effort includes administrative processing of WIDS waste site reclassification form as closed out. Completed waste designation evaluation on four TSDs (216-A-29, 216-A-368, 216-A-37-1, and 216-B-63). The waste units 216-A-29 and 216-B-63 evaluations conclude that no dangerous waste discharged on or after August 9, 1987. Ecology provided draft 'Annotated Outline for Closure Plan Integration with Future CERCLA Documents' (Option 2 template) on 11/8/17 in support of the Rev 9 permit activities. 126-A-368 closure plan conforms to Ecology Option 2 closure plan format. Closure plan is being reviewed internally.
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	TBD	M. Kamal	M. Hickey	N. Menard	Ecology	Completed waste designation evaluation for 216-B-3 and 216-S-10; no dangerous waste discharged on or after August 19, 1987.
5	200-EA-1 200 East Inner Area	RF/CMS & RI/FS Work Plan	M-015-92A: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RF/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-EA-1 OU to Ecology	7/31/2018	7/14/2018 8/14/2018	B. Vannah	M. Hickey	N. Menard	Ecology	Tri-Parties coordinated together and reached agreement on a revised work plan delivery field schedule. Agreement reached to conduct Draft A and Decisional Draft reviews concurrent. Chapter and appendix informal reviews continue and are nearing completion.
6	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5 RI Report	None		8/11/2015 8/3/2017	J. Hanson	C. Wittreich	N. Menard	Ecology	Comment resolution has been extended through March 5, 2018. Comment resolution process continues with Ecology in parallel with defining an IROD and FS strategy.
7	200-BP-5, 200-PO-1 200 East Area Groundwater	200-PO-1 RI Report Addendum	None		8/11/2015 8/3/2017	J. Hanson	C. Wittreich	N. Menard	Ecology	Comment resolution has been extended through March 5, 2018. Comment resolution process continues with Ecology in parallel with defining an IROD and FS strategy.
8	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.	3/31/2019		J. Hanson	C. Wittreich	N. Menard	Ecology	CCF M-15-18-01 signed on 03/5/2018 extended date to 3/31/19. Prepared a strategy and adjusted the milestone to prepare a feasibility study that will support and interim action Record of Decision.
9	200-BP-5 200 East Area Groundwater	Removal Action Work Plan for 200-BP-5 Operable Unit Groundwater Extraction, DOE/RI-2017-11	None		6/1/2017 7/17/2017	J. Hanson	C. Wittreich	N. Menard	Ecology	Ecology's comments on the Draft A RAWP (received 7/19/2017) have been dispositioned and incorporated. The RAWP has been finalized and is undergoing sign-off.
10	100-BC-1, 100-BC-2, 100-BC-3 100-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. Dagen	R. Evans	L. Bueelow	EPA	Preparation of Draft Rev. O RI/FS and PP continues in response to EPA comments received August 14, 2017. Both documents are scheduled to be submitted to EPA for review April 2018.
11	100-DR-1, 100-DR-2, 100-NR-1, 100-NR-2, 100-NR-3 100-D/H	RI/FS Reports and Proposed Plan	M-015-70-T01: Submit FS & PP for NR 1/2/3 and DR 1/2 Complete	Target Completed 12/14/2012		S. Balone	E. Feist	N. Menard	Ecology	Proposed Plan Complete. Final ROD review is underway. Final ROD signing tentatively scheduled for April 2018.
12	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		S. Balone	E. Feist	R. Lobes	EPA	RI/FS rewrite began in Feb 2017. Decisional draft to RI for review is tentatively scheduled to be complete in June 2018.
13	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	Continue with preparation of the Draft B RI/FS. Comment resolution period has begun extended to June 30, 2018.

Note: Blue text reflects changes from previous quarter. Shading discriminates change in ROD Area Location from adjacent rows.

(Information current as of 8/17/2017)



PFP Closure Project – Dec. 2017-Feb. 2018

TPA Milestone Series: M-083



February 2018 Aerial Photo of the PFP.



March 15, 2018
U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology



Milestone

Milestone	Due Date	Description	Status
M-083-00	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 February 2018)

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	\$988.5	\$970.2	\$1079.5	(\$18.3)	(1.8%)	(\$109.2)	(11.2%)	\$988.7	\$1101.0	(\$112.3)

Fiscal Year to Date (Through February 2018)

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	\$6	\$6.6	\$13.2	\$5.9	936%	(\$6.7)	(101.1%)



December 2017 through February 2018

Status

- December 2017 Contamination was Found Outside of Posted Radiological Boundaries
- Demolition Placed on Hold and Response/Recovery Actions were Initiated
- Bioassay Kits Issued and Results Still Being Received
- Expanded PFP Work Control Area in Place to Restrict Access to only Authorized Personnel
- PFP Workforce Relocated Outside Expanded PFP Work Control Area



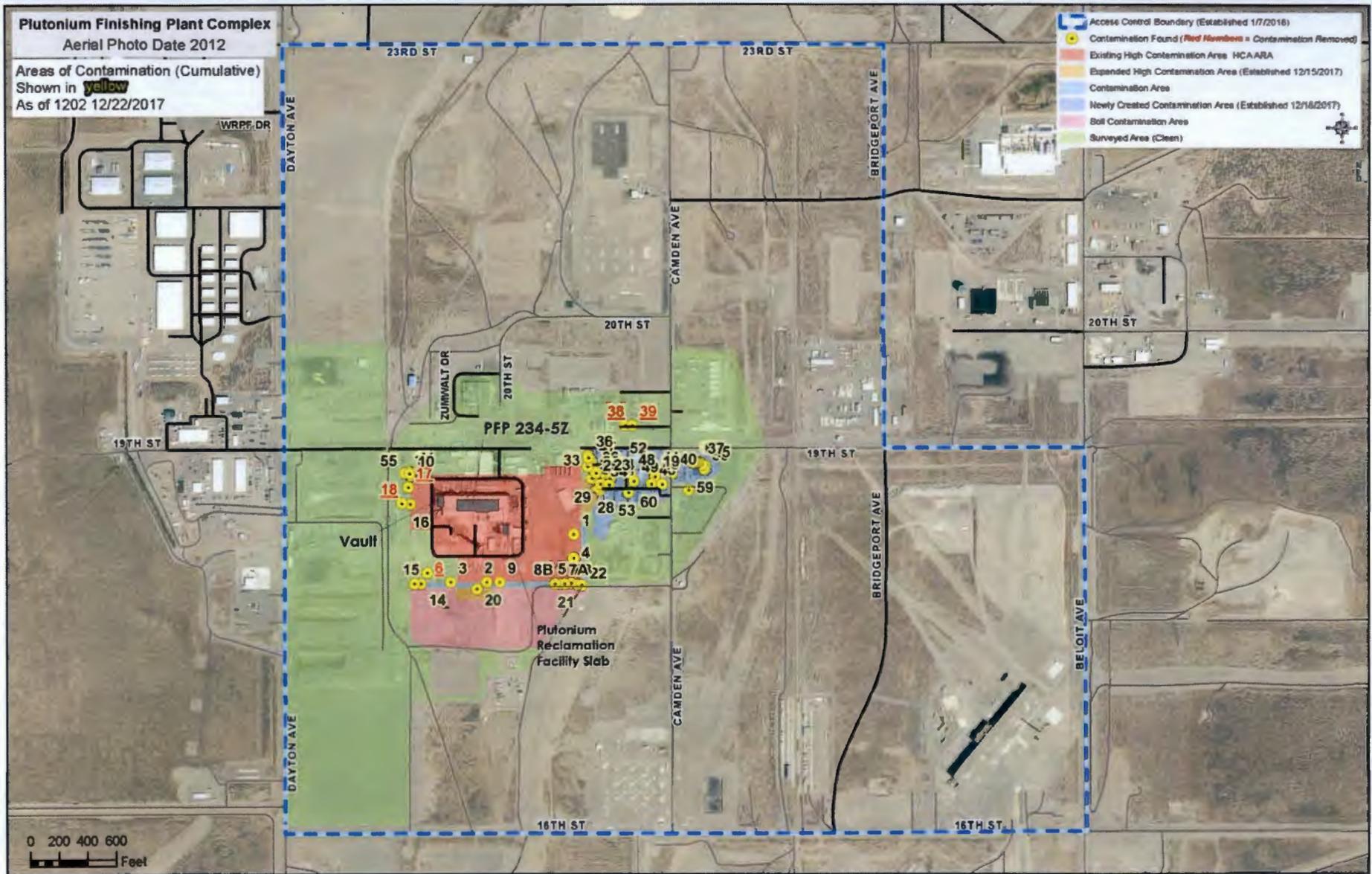
December 2017 through February 2018

Status (Continued)

- Root Cause Evaluation Completed in January 2018 and Draft Report and Corrective Actions Written
- CHPRC/Jacobs Corporate Review Completed
- Outside DOE Expert Panel to Review Report and Proposed Demolition Approach
- Timing of the Resumption of Demolition is TBD
- Demolition will not resume without DOE approval
- Refer to the Hanford.gov website for Current & Past Information



Contamination Locations

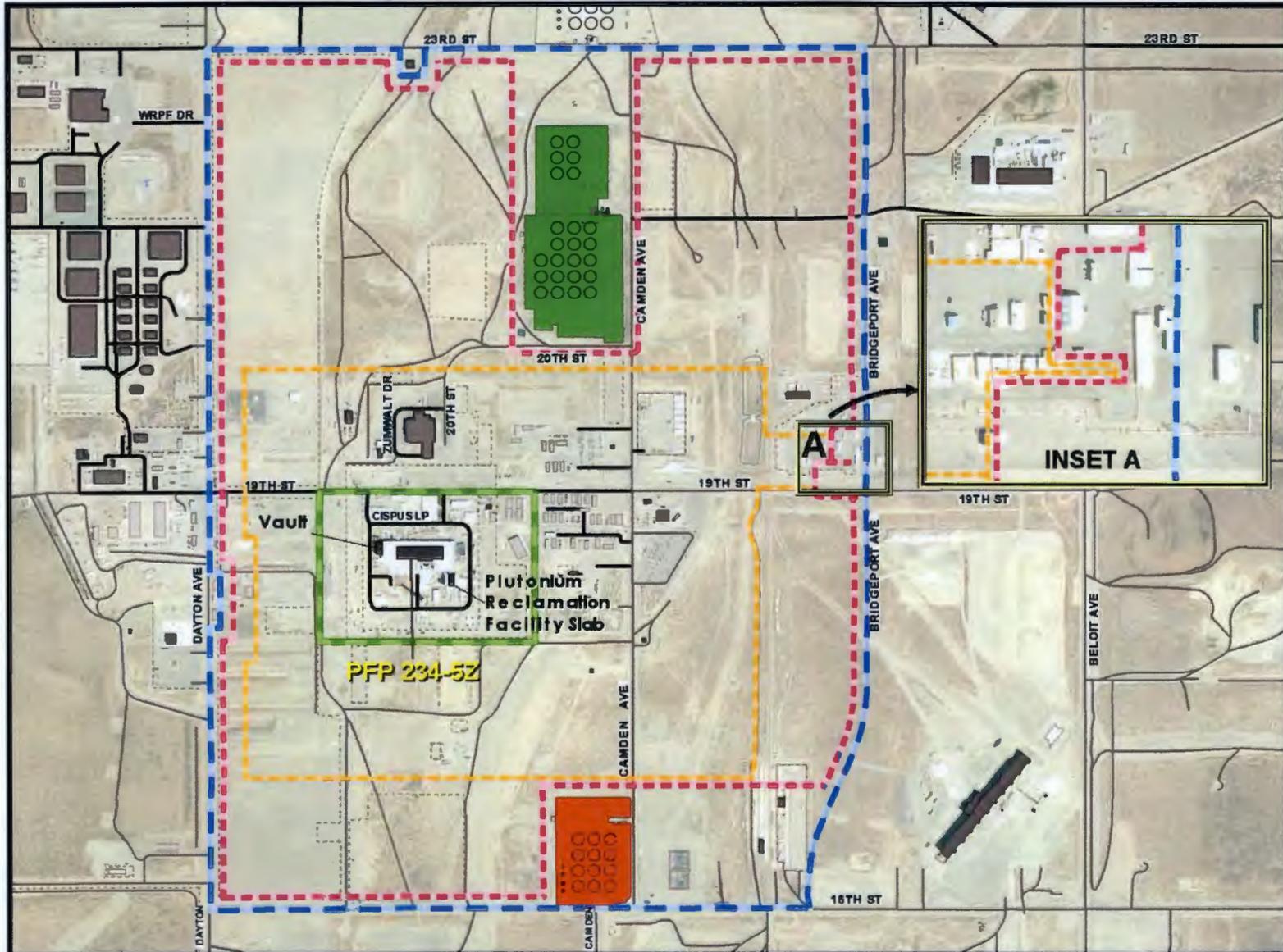


Regulatory

- Interim Response Transmitted to EPA and Ecology Regarding January 9, 2018 “Creation of Danger” Letter; 3 of 7 Items Remain to be Completed
 - Description of Corrective Actions
 - Briefing Summarizing Corrective Actions
 - Bioassay Results
- Responses in Progress to Wash. Dept. of Health January 30, 2018 Letter of Concern
- Bi-weekly Status Meetings Being Held
- List of Activities Agreed on to Implement DRAFT Updated PFP Stabilization Radiological Boundaries



PFP ACCESS CONTROL BOUNDARY VERSION 3



Feet
0 250 500

- Access Control Boundary
- CA Boundary (ALT-2)
- HCA/ARA Boundary (ALT-3)
- RBA Boundary (ALT 1)
- WRPS Managed RBA
- WRPS Managed CA
- Building
- Trailer
- Structure
- Fence

Map As of 8:12:50 AM 2/8/2018
MSA Central Mapping Services
(Reference Map)

180201_CHPRC_Access_Control_and_RAD_Boundaries_Ver4_11x85_Rev0