



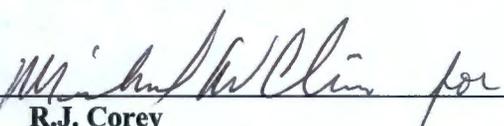
Tri-Party Agreement

September 15, 2016
TPA River Corridor/Central Plateau
Quarterly Milestone Review Meeting Minutes

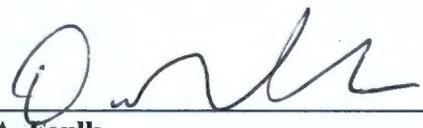
SIGNATURES

Approval: 
A.K. Smith
Ecology Representative

Date: 11/1/16

Approval:  for
R.J. Corey
DOE-RL Representative

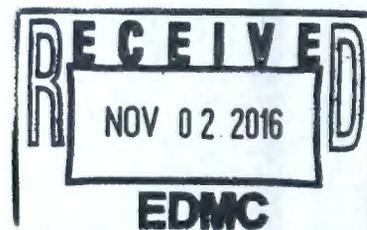
Date: 10/20/2016

Approval: 
D.A. Faulk
EPA Representative

Date: 10/17/16

Minutes Prepared by: 
M.J. Turner
Mission Support Alliance

Date: 10/17/16



**River Corridor/Central Plateau
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
September 15, 2016**

PFP Closure Project - TPA Milestone M-083

Milestone Summary - DOE-RL reported that M-083-00A was renegotiated and signed, and the final changes to the supporting documents that reflect the revised milestone are being completed. DOE-RL noted that the target milestone M-083-24-T01 was completed and will be removed from the summary report.

Accomplishments 3rd Quarter 2016 – DOE-RL stated that the series of accomplishments that were completed during the 3rd quarter, which ended in June 2016, represent significant progress in deactivation. DOE-RL noted that there were continuing issues with equipment, mainly the canyon crane, but the crane is no longer needed and has been retired. DOE-RL reported that the canyon is ready for deactivation, and it declared the canyon crit-incredible two weeks ago. DOE-RL added that safeguards and security are close to declaring the canyon crit-incredible, and it is anticipated to be received by next week. DOE-RL stated that with regard to ventilation, the last filter box for the canyon and all of the Plutonium Reclamation Facility (PRF) will come off-line in the next week.

DOE-RL reported that there was an inadvertent criticality alarm that resulted in a two-week delay in the schedule. The crews that were in PRF had to exit outside from a high contamination area to do the decon, and the area was cleaned up and soil placed over the area where the crews had gathered. DOE-RL reported that there was an electrical event when a live wire was cut, which resulted in a stop work to resolve the issue. DOE-RL stated that the wire was hidden behind a bundle in a control panel, and the wire was not supposed to be there per the drawings. DOE-RL noted that the canyon will have all the electrical power isolated by the end of next week and it will be going cold and dark.

DOE-RL reported that a small water sampling facility and two more facilities have been demolished since the 3rd quarter, and there are 22 facilities remaining, which include four major facilities and some ancillary facilities. Efforts continue with removal of the 26-inch process vacuum line. Removal of the E4 ventilation is starting back up, which is the exhaust from the gloveboxes. Removal of the E3 ventilation is also under way, which is the exhaust fans from the rooms.

Project Baseline Performance – DOE-RL referred to the fiscal year to date through June 2016, which shows a negative schedule variance of 26.0 percent and a negative cost variance of 17.2 percent, and noted that it is due to the performance measurement baseline that originally scheduled demolition to start at the end of

March 2016. DOE-RL indicated that there are sufficient funds to carry through this year despite the delays, and it is anticipated there will be about \$4 million carryover from FY16 to FY17, along with \$72 million per the President's budget for FY17. DOE-RL added that it is also working to identify additional carryover for PFP as a contingency, if needed. DOE-RL noted that it did not request additional budgetary authority for FY18, and it plans to carry over to fund what residual there would be for document or project closeout.

Issues/Challenges – Regulatory – 1) DOE-RL noted that a bird watch was instituted seven days a week to ensure there was no nesting during the nesting season. 2) DOE-RL stated that it has been working closely with the EPA asbestos expert to issue the asbestos reports. 3) DOE-RL reported that a meeting is scheduled today to review the cost of the slab removal for the characterization sampling piece of the sampling and analysis plan (SAP) for removal of 236-Z and 242-Z slabs. DOE-RL noted that comments were received from Ecology and EPA regarding the SAP, and efforts are under way to resolve those comments. 4) DOE-RL reported that the air dispersion model Rev. 2 has been completed, and Rev. 3 has been released. DOE-RL noted that the air dispersion model is being used as the measure to be able to perform open air demolition of the four major facilities, and it is currently within the confines to allow open air demolition.

Issues/Challenges - Non-Regulatory – 1) DOE-RL noted that the 236-Z crane had been repaired and has since been retired. 2) DOE-RL reported that inspection of all the J Pan waste drums has been completed this quarter (4th quarter), and there was no continued reaction. The plan is to move the drums off the PFP footprint and into the Central Waste Complex (CWC) in a segregated area, and the drums will continue to be monitored. Two weeks ago the contractor presented to the National Corporate Board in Carlsbad its plans to move forward. DOE-RL noted that the Carlsbad field office, which owns the Waste Isolation Pilot Plant (WIPP), was informed and understands that if there was a reaction, it was completed. 3) DOE-RL noted that the unplanned criticality alarm was discussed under significant planned actions.

4) DOE-RL reported that it has not been provided the contractor's plans regarding the contractor-led readiness assessment, but it has verbally been informed that the readiness assessment for demolition that started several weeks ago will be suspended. DOE-RL stated that the readiness assessment for demolition assesses the workers, the documentation, and the equipment. The workers are qualified and ready to go, but concerns were raised regarding the work package and the equipment. DOE-RL stated that the equipment didn't adequately demonstrate during the demolition demonstration. A Hazard Review Board by contractor senior management will be conducted before work will be allowed. The D4 demolition demonstration will be performed again on September 27, 2016, and the start of demolition is planned for September 30, 2016, with removal of the stairwells and the south canyon airlock.

Ecology inquired about the D4 demonstration scheduled on September 27. DOE-RL responded that the initial demonstration did not demonstrate high-reach capability, and a solid waste box (SLB-2) was not loaded. DOE-RL noted that the demonstration will focus on roof cuts to the sixth and fourth floor of PRF to demonstrate that the cuts can be picked off the top of the roofs and then be loaded into an SLB-2. There will also be a demonstration to load test gloveboxes. DOE-RL noted that it observed the contractor's initial readiness assessment and identified the same concerns as the contractor.

Planned Activities through December 2016

236-Z (PRF) - DOE-RL noted that draining of the chemical lines and the fixative application on the gallery gloveboxes have both been completed. The remaining activities listed in the planned activities are under way in PRF.

242-Z (Americium Facility) – DOE-RL reported that the remaining activity is grouting the sump, which will isolate it. DOE-RL noted that the sump was supposed to be grouted last week, but the subcontractor was not able to perform the work satisfactorily. Another subcontractor will be brought in, which will delay the grouting for several weeks.

PFP Timeline and Sequence – DOE-RL stated that demolition is planned to start with PRF at the end of September 2016, followed by 242-Z, which is scheduled for January 2017. DOE-RL noted that 242-Z may be pulled forward to do demolition concurrent with PRF. 234-5Z is scheduled to be demo ready in February 2017, and demolition is to be completed in July 2017. Demolition of 291 is scheduled to be done concurrent with 234-5Z in July 2017. DOE-RL stated that efforts are under way to recover the slip in schedule, which was mainly due to the three incidents mentioned regarding the unplanned criticality alarm and the live wire that was cut. DOE-RL added that the work force was shifted from 234-5Z and 291 in the effort to get PRF demo ready.

DOE-RL reported that steam for the backup turbines was secured last week, which represents a major step towards demolition. DOE-RL added that deactivation of the E3 ventilation system next week also represents a step towards demolition.

100-K Sludge Treatment Project, Soil Remediation, D4 and ISS - M-016 and M-093 TPA Milestones

Accomplishments – 3rd Quarter 2016:

Sludge Treatment Project – DOE-RL reported that transition of the contractor work scope from WCH to PRC has been completed, and it indicated that the next quarterly report will be combined into one presentation for River Corridor. DOE-RL noted that construction of the K West basin annex was completed, and the crews are finishing up installation of support systems. Preparations continue with putting the equipment in the basin, and that work is on track.

Equipment Procurement/Fabrication – DOE-RL noted that all of the equipment required for completion of the MASF preoperational acceptance testing (MPAT) was received and installed last spring. DOE-RL stated that a total of 24 sludge transport and storage containers (STSCs) are being fabricated by American Boiler Works (ABW) in Arlington, Washington. The 11 STSCs that are due this year are in the process of being shipped to Hiline in Richland, WA, where the appurtenances will be installed. DOE-RL noted that the first STSC was used in the MPAT that was done earlier this year. DOE-RL reported on an issue with surface corrosion that was identified during testing of equipment once it was installed on the STSCs at Hiline. DOE-RL stated that the surface corrosion indicates the stainless steel had been breached, which is not an abnormal occurrence with stainless steel. Hiline has been working with ABW, and they will be cleaning and passivating the STSCs to remove the free iron on the surface. There are two STSCs at Hiline that will be cleaned and passivated, and the remaining STSCs at ABW will be cleaned and passivated before they are shipped.

MASF Preoperational Acceptance Testing (MPAT) - DOE-RL reported that the MPAT was completed in July 2016, and the testing went as planned. DOE-RL stated that about 160 test deficiency reports were written, and all of them have been closed out or dispositioned, and the majority of the retesting that was required has been completed.

Milestone Summary – DOE-RL noted that all of the milestones are on track. Ecology asked if DOE-RL has considered a decision point regarding the 100K East interim safe storage (ISS), due to the waste site that's underneath the reactor. DOE-RL responded that it hasn't been discussed, and there are no plans to do any remediation right next to the reactor. DOE-RL added that the plans for cocooning the reactor have not changed. DOE-RL noted that the groundwater team is considering some treatment methods using groundwater downstream, but there has not been a discussion with the groundwater team recently.

Project Baseline Performance – DOE-RL stated that the contract project performance is on schedule and slightly under cost. DOE-RL noted that critical decision 2/3 was approved for the sludge removal project, and it is now a line item capital asset project. The total project cost for the sludge removal project, going back to 2009, is \$311 million, and there is less than \$100 million to go on the project.

Planned Activities July – December 2016:

Sludge Treatment Project - DOE-RL noted that the MPAT was completed, and the crew is in the process of taking apart equipment, and some of the equipment has already been shipped to the basins and the annex for installation. The K Basins Preoperational Acceptance Testing (KPAT) is scheduled to start next spring.

T Plant Construction - DOE-RL reported that the North Loadout Pit (NLOP) equipment has been removed and loaded into IP-2 containers and is being shipped to ERDF. The NLOP equipment was used when the NLOP sludge was treated in the 2005 time frame, and the equipment was removed to clear the deck and allow access to the cells. DOE-RL stated that installation of the new equipment in the five cells at T Plant that will be used for sludge storage should be completed by the beginning of 2017. Equipment in the first cell has been installed, and installation in the second cell is in progress.

Other Activities - DOE-RL stated that there is an existing documented safety basis (DSA) for the K Basins operations and a preliminary documented safety analysis (PDSA) for the sludge project, and the two documents will be combined to have one DSA for K Basins. The combined DSA will include operation of the sludge engineered container retrieval and transfer system (ECRTS).

Milestone M-089-00 - DOE-RL noted that the M-089 milestones were not listed in today's quarterly summary report. The milestones address closing the 324 hot cells and the radiochemical engineering cells (RECs) in the 300-296 waste site. DOE-RL stated that the information will be included when the two presentations are combined for the next quarterly milestone meeting.

River Corridor Closure Project - Milestones M-16/M-89//M-94

Quarterly Summary (May – August 2016) – DOE-RL stated that Washington Closure Hanford's (WCH) contract ends September 30, 2016, closing out a successful 11-year contract, and this will be the last report prepared by WCH. DOE-RL noted that 51 of 51 milestones were completed. DOE-RL also noted that the milestone change package approved in May 2016 establishes one new milestone for the 618-11 burial ground, which is due in 2021. DOE-RL stated that ERDF and the 618-10 burial ground remediation were transferred to PRC on August 29, 2016, and PRC is now responsible for all the work scope in the River Corridor, including the transfer of some of those milestones.

Milestone Status – DOE-RL noted that all of the milestones are currently on schedule.

Significant Accomplishments - For Last 4 Months:

M-016 - Remedial Action/Risk Assessment – DOE-RL noted that the geophysical surveys of 600-349 were completed and the waste site was closed out, but additional geophysical surveys are being done at the request of the tribes to determine if there are other concentrations of lead. The report has been provided to the tribes, and DOE-RL is waiting on comments to determine whether any other actions are required for mitigation (not per CERCLA). A meeting is scheduled next Wednesday (9/21/16) with the tribes.

DOE-RL stated that demobilizing in the 300 Area was completed except for the 324 facility. DOE-RL noted that augering of 80 vertical pipe units (VPUs) was completed in the 618-10 burial ground, and mockups are under way for the other 14 VPUs that are steel VPUs. DOE-RL added that retrieval of 38 VPUs has been completed so far, and the work is progressing with no issues.

DOE-RL noted that ERDF is down to one ramp operations per day since there is not a tremendous amount of waste currently going into ERDF. DOE-RL added that the PFP work will ramp up efforts at ERDF, and soil will be used from the AB waste sites as well as 316-4 and 618-10 to blend with PFP waste. EPA noted that work has been authorized in the Outer Area and that soil could also be used.

Performance Summary – DOE-RL stated that WCH realized a significant cost savings performance over its contract, and came in under the target cost by about \$300 million. DOE-RL noted that there were close to 200 waste sites that were added to the work scope during WCH's contract period. DOE-RL stated that the final change proposals are still being negotiated with WCH.

Milestone M-089-06 - DOE-RL stated that the change package for the revised closure plan was submitted at the end of June 2016, and the public comment period ended September 9, 2016. Ecology stated that it has received significant public comments for the closure plan, and the Yakama tribe provided comments as well. DOE-RL added that it received comments from the State of Oregon.

Ecology requested a brief status regarding the planning for the 324 building. DOE-RL responded that the work was turned over to PRC in about March 2016, and PRC has been ramping up its efforts by hiring a project team and assigning a permanent project manager in June. PRC conducted a gap analysis to determine what other modifications to the remediation design are needed. The gap analysis was completed, and the initial design that was provided by WCH is being updated. PRC is in the process of hiring more operators and RCTs to start working in the airlock cleanout that is needed to allow access to the cells. The baseline has been revised to reflect what PRC believes the schedule will be. An external independent review is being conducted by DOE-Headquarters on the revised baseline for the remaining work in the River Corridor.

DOE-RL stated that in 2017, efforts will be focused in the mockup facility. Equipment is being procured, and a special saw will be used for cutting out the floor and through the stainless steel liner in the concrete. The airlock cleanout will also be done in 2017, and preparations are under way to clean out the debris in the hot cells. DOE-RL stated that additional incentives are being prepared for PRC to accelerate 324 as much as possible. DOE-RL noted that FY17 is two weeks away, and the FY17 funding level has not been identified. DOE-RL indicated that the funding could be at a three-month or six-month continuing resolution (CR).

M-026/M-091 TPA Quarterly Milestone Review

M-026 - DOE-RL noted that a handout for the Land Disposal Restrictions (LDR) report was not provided today. DOE-RL stated that comments were received from Ecology on the 2014 LDR report, and it is in the process of responding to the comments and a schedule has been prepared for updating the LDR report. Ecology asked if DOE-RL will be coordinating with the contractors regarding the comment response. DOE-RL responded that the comments have been distributed accordingly, and a point of contact has been identified within DOE-RL to coordinate all the comments.

M-091 - DOE-RL stated that the comment response document associated with revision to the project management plan (PMP) was delivered to Ecology yesterday (9/14/16). DOE-RL added that the M-091-51 engineering alternatives analysis will be transmitted to Ecology within two weeks.

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

MSA stated that the Tri-Parties signed the change request to delete submittal of the 2017 Lifecycle Report via an Inter-Agency Management Integration Team (IAMIT) milestone review form, which will be submitted to the Administrative Record. MSA stated that the reason for deleting the submittal was due to the timing of the recently amended Consent Decree and the Central Plateau milestones changes, which impacted the planning for the next Lifecycle Report. MSA noted that the System Plan that ORP is using is under discussion about whether it will be Rev. 8 or a System Plan that needs to be used. A project managers meeting is planned for March 2017 to start preparations for the 2018 Lifecycle Report.

Central Plateau Remediation Project - M-016-00, M-037, M-085-00

Accomplishments 3rd Quarter 2016 – Minimum Safe/Maintenance Activities

DOE-RL stated that there are two bags that were placed over leaking pipes in the REDOX facility, and the plan was to remove the bags as part of the risk reduction effort and to preclude any bursting of the bags and spreading contamination. A mockup for removal of the bags was done in MASF, and the first bag was successfully removed this week. Planning is under way to remove the second bag. EPA inquired about disposal of the bags. DOE-RL responded that the bags will be placed in drums in a safe and compliant area at REDOX, and eventually sent to the Central Waste Complex (CWC).

Canyon Stabilization Documents – DOE-RL noted that a number of canyon stabilization documents have been completed, and several documents are being generated for the canyon stabilization efforts. Ecology stated that it is waiting for DOE-RL's official stance for the proposed milestones. DOE-RL acknowledged Ecology's comment, and stated that that type of issue will be addressed with EPA before having a discussion with Ecology. Ecology responded that it was aware

DOE-RL would be working with EPA first, but pointed out DOE-RL's interactions with EPA have a direct impact on what it will be doing with Ecology. DOE-RL noted that it owes EPA a financial white paper regarding the impact from money that will be spent on the stabilization efforts versus the impact on other issues at Hanford. EPA added that a meeting is scheduled next Monday (9/19/16) to discuss what it is expecting in the proposal, and invited Ecology to attend. DOE-RL cautioned that the source of funding has not been identified, especially for FY17, and the timing for a decision on the path forward was somewhat premature.

Planned Activities July – December 2016 Minimum Safe/Maintenance Activities

DOE-RL noted that all of the motor mounts for the B Plant fans were replaced, and the repair was completed at the PUREX stack sampling system. DOE-RL reported that there was an unplanned shutdown on the fan at PUREX, and recovery was made on the incident. DOE-RL also reported that it was discovered that the B Plant fan was running for as long as 30 hours without being monitored, and the recovery is in process. DOE-RL noted that the Department of Health (DOH) was notified of each incident. Ecology asked when the PUREX facility surveillance is planned. DOE-RL responded that it would follow up and provide Ecology the date.

207A South Retention Basin – DOE-RL noted that the closure plan had been submitted to Ecology, and inquired about the status of incorporation of public comments into the closure plan. Ecology responded that all of the comments have been addressed, and all that remains is processing the paperwork. DOE-RL clarified that processing the paperwork represents approval of the closure plan and then issuance of the permit. Ecology concurred with DOE-RL's clarification. DOE-RL indicated that backfilling of the 207A South Retention Basin would commence when the permit is issued. Ecology agreed, adding that the permit should be issued within two weeks.

Other Work – DOE-RL stated that demolition has been completed on 2711-S and 2718-S, and demolition of 2710-S should be completed in about a week. DOE-RL noted that demolition was delayed on 2710-S due to three issues: 1) potentially loose asbestos material that required a manlift to do the repair; 2) an incident related to an asbestos inspection where wires were touched that had not been verified cold; 3) a raven's nest.

Milestone M-092-00 – Ecology stated that it had requested DOE-RL to report on the M-092-00 milestone since the two-year window is approaching on the due date. Ecology noted that the milestone is associated with sodium disposition, and it refers to sodium in the 200 Area as well. DOE-RL stated that there are two aspects of the milestone that are currently under way. There are discussions with a vendor regarding disposition of the sodium that's in the 400 Area in lieu of spending money to transfer it to the 200 Area and continue surveillance. DOE-RL noted that it is the same vendor that reacted a minor amount of sodium and all of the NaK that was reacted a number of years ago from the FSF cooling system at FTF.

DOE-RL stated that the second aspect is the issue regarding definition of the sodium reaction of the bulk sodium, which represents the majority of the milestone.

DOE-RL noted that the intent has been, and continues to be, to use the bulk sodium reaction at the Waste Treatment Plant (WTP) to serve as a reactant on the front end of the WTP's chemistry process. DOE-RL added that sending the sodium to WTP has not been well-defined, due to the general schedule of WTP. DOE-RL stated that it would follow up on these two aspects and provide an update for discussion at the next quarterly milestone meeting. Ecology asked if M-092-00 should be moved to the Central Plateau Remediation project discussion. DOE-RL agreed to move the M-092-00 milestone discussion to Central Plateau Remediation.

Soil and Groundwater Remediation Project Milestone Review - M-015-00, M-016-00, M-024-00, M-085-00

Accomplishments (3rd Quarter 2016) River Corridor - DOE-RL noted that 100-KR-4 and 100-HR-3 were originally combined, and they have been separated out and there is an HR-3 Record of Decision (ROD). KR-4 and HR-3 now each have an interim RD/RAWP, O&M plan and SAP.

Accomplishments (3rd Quarter 2016) Central Plateau – DOE-RL stated that Rev. 1 of the 200-SW-2 RI/FS work plan was approved, and all of the language was resolved regarding the point of compliance and the Upper Confidence Limits (UCLs). DOE-RL noted that the language will carry through on the upcoming work plans for 200-DV-1 and 200-WA-1. DOE-RL stated that EPA's comments were resolved on the 200-WA-1 RI/FS work plan, and Rev. 0 was ready for submittal when more comments from EPA were received last week that need to be resolved. DOE-RL stated that the regulator review of Draft A 200-BP-5 treatability test report was completed and comments were received from Ecology. Ecology stated that the 200-BP-5 comments are close to being resolved.

Central Plateau Remedy Implementation – DOE-RL reported that construction acceptance testing on the pipeline is under way and should be completed by the end of September 2016. Two of the 200-BP-5 wells and the 200-DV-1 perchwater will be piped into a collection tank where it will be mixed into a more consistent concentration of uranium. The mixture will then be piped over to the 200 West pump and treat system instead of trucking the perchwater, which is currently being done. The pipeline will be used that was installed last year going from 200 East to 200 West, and using the pipeline will result in a major cost savings in labor by not trucking the perchwater. DOE-RL indicated that piping the perchwater should start next month.

Milestone Summary - DOE-RL stated that the M-015 milestones are on schedule, with the exception of 200-IS-1, which is in dispute until November 1, 2016.

M-015-21A – DOE-RL noted that the 200-BP-5 and 200-PO-1 FS report is on schedule, but efforts are under way to prepare a change package because comments have not been received on the RI. DOE-RL pointed out that there is a certain time frame to receive the RI comments before it impacts the FS, and the change package will also include any subsequent milestones that would be impacted.

M-015-98 – DOE-RL noted that the U Plant waste sites located in 200-WA-1 may be impacted by receipt of late comments from EPA on the 200-WA-1 RI/FS plan.

DOE-RL indicated that it was moving forward with Rev. 0, but it may be impacted three to six months due to the late comments. EPA indicated that the comments were one week late. DOE-RL stated that it was preparing to submit Rev. 0, and the comments were expected at the Draft A stage. EPA responded that there were significant changes to the work plan, and DOE-RL should have anticipated there would be comments. DOE-RL noted that the changes were worked through with EPA staff. EPA stated that DOE-RL should not expect to go from a Draft A to a Rev. 0 when there are so many significant changes to a work plan. EPA stated that the Quality Assurance Project Plan (QAPP) was sent to the Department of Health (DOH) and Region 10, and all of the test methods for various analyses were verified. EPA added that there would not be an issue as long as DOE-RL uses the same QAPP that has been approved in WA-1.

M-016 Milestones - DOE-RL stated that M-016-110-T03 and T04 are at risk, but they are target dates and not milestones. A change package for T04 was submitted during the 100 Area/300 Area unit managers meeting, and it was discussed during the Ecology/EPA coordination meeting. DOE-RL noted that it was documented in the meeting minutes that the change package was rejected, and the change package will be resent after Ecology's editorial comments are incorporated. EPA noted that the change package was submitted as signed by DOE-RL, and it reiterated that a signed change package should not be submitted unless a draft change package has been delivered beforehand. Ecology referred to the draft language changes for T04 and asked about incorporating them into T03. DOE-RL responded that the language for T04 is different from T03, and it includes justification on D, H, B, C and K, which don't apply to T03.

DOE-RL noted that a change package was also submitted for M-016-110-T03. Ecology responded that an internal review is being done on the work plan and some of the information that DOE-RL pulled out of the work plan of the latest change notice. Ecology stated that there was an agreement in the change notice that Ecology had not agreed to, and a discussion was needed with DOE-RL to reach an understanding before signing the change notice. EPA noted that it will be discussing the change notice with Ecology after this meeting and before Ecology signs the change notice. Ecology stated that DOE-RL would have to wait until next week to schedule a meeting to discuss the change notice.

M-016-193 - DOE-RL noted that this milestone is on schedule, with an asterisk indicating that an extension is being worked with EPA. DOE-RL stated that the extension is associated with the drilling affecting how representative the samples are and waiting through a rebound period.

M-085-70 - DOE-RL noted that this milestone is on schedule, and when the funding is identified for the next year, the milestone will be reviewed and there may be follow-up discussions with Ecology. Ecology asked if some FY17 funding will be needed for the 200-CB-1 work plan. DOE-RL responded that it will be reviewing where the work plan falls into the baseline. Ecology noted that the milestone for the CB-1 work plan will cross the contract changeover, and asked if DOE-RL will incorporate that into its planning as it transitions from one contract to another. DOE-RL responded that there will be several activities that will

potentially be caught in the middle of transition, depending on the timing. Ecology stated that changes in contracts are not a basis for a change request, and it is not a good basis for delaying paperwork. DOE-RL acknowledged Ecology's comments, and stated that staff generally doesn't change with contractor transition, and that retiring staff is more of a concern.

Project Baseline Performance – DOE-RL indicated that there were no issues regarding the schedule and cost performance.

Issues – 1) DOE-RL stated that a meeting was planned with senior management during the last week of September 2016 to discuss the modeling issue associated 200-BP-5 and 200-PO-1, but the meeting will have to be rescheduled. In the meantime, DOE-RL is preparing for the meeting and is in the process of addressing the points that Ecology noted in its white paper. 2) DOE-RL stated that the 200-IS-1 dispute is extended to November 1, 2016, and senior management will be meeting next week. DOE-RL added that a draft letter was sent to Ecology a month ago regarding a temporary authorization (TA) for CWC, and comments have not been received. Ecology acknowledged that it owes comments to DOE-RL regarding the TA. DOE-RL noted that resolution of IS-1 and the TA has applications to other units that could start to be impacted.

Planned Activities – July - September 2016:

CERCLA Decision Documentation - DOE-RL reported that the 200-SW-2 RI/FS work plan has been completed, and the 200-DV-1 RI/FS work plan is in the process of being signed. DOE-RL noted that the recent comments on the WA-1 work plan will need to be resolved. EPA referred to the WA-1 work plan, and reiterated that EPA will not sign on to a cumulative impacts document. EPA added that it would agree with DOE-RL doing a composite analysis. DOE-RL indicated that a separate meeting should be set up for discussion with EPA. Ecology asked if EPA was looking at the BC cribs as potentially a separate ROD. EPA responded that it would only consider it if DOE-RL needed soil to send to ERDF and approached EPA about a separate ROD. EPA noted that all the paperwork is in place except the ROD.

DOE-RL reported that the 100-D/H public review was extended and will be completed tomorrow, and no significant comments have been received. EPA noted that there is the Hanford Advisory Board (HAB) meeting today and a meeting tomorrow with the Yakama tribe, and there may be comments received from those entities.

TPA Decision Documents List

DOE-RL provided an updated list and noted that updated items are highlighted in blue. DOE-RL asked Ecology about 100-N (line 18). Ecology responded that after the 100-D/H ROD is issued, the process to resolve comments on the 100-N FS

will be initiated. Ecology noted that there are a few comments left to resolve on the 100-N RI.

100K Sludge Treatment Project, Soil Remediation, D4, & ISS

TPA Milestone Series: M-016 and M-093



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

Third Quarter FY 2016
September 15, 2016



ch2mSM



Accomplishments

3rd Quarter 2016

Sludge Treatment Project

- Complete 105-KW Sludge Transfer Equipment Installation (M-016-177, due 9/30/2017 On Schedule)
- Begin Sludge Removal from 105-KW Fuel Storage Basin (M-016-175, due 9/30/2018 On Schedule)

Construction

- **Annex**
 - Completed the installation of the telecommunications in the Annex (HLAN drops and speaker boxes).
- **In Basin**
 - Completed concrete placement for the doghouse stem walls in NE Corner of 105K West Basin.
 - Completed fabrication of the booster pump installation rail system and delivered to site.
 - Completed the re-installation of the grating supports above the engineered containers (EC-210 – EC-260).
 - Installed Ion Exchange Module (IXM) Pipe Rack and supporting hoses.
 - Installed the Transfer System Rupture Disk Skid in the Basin.
- **T-Plant**
 - Completed delivery of the Cell Storage equipment that will be installed in the T-Plant canyon to allow receipt and storage of the sludge transport and storage containers (STSC), (i.e. leveling frames, containment system, leak detectors) (PM-12-8-16).



Completed the Installation of the Telecommunications Hardware in the Annex



Shipment of the Last Containment System & Leveling Frame 9L from CEES to Complete PM-12-8-16)

Accomplishments

3rd Quarter 2016

Sludge Treatment Project (*continued*)

Equipment Procurement/Fabrication

- Received and installed all equipment required for completion of MPAT.
- Completed fabrication of test fixtures for seismic testing of the STSC instrumentation & appurtenances.
- Completed delivery of Inert Gas and Auxiliary Ventilation System, Nitrogen Purge/Supply Panels and Cylinder Cradles to MASF.
- Delivered Misc. I&C Components, IXM Piping, Rack, and Hose Assemblies to MASF.
- Inspected and delivered the electrical generator was receipt to MASF.
- Shipped Sludge Transport and Storage Container (STSC) Vessels - 402-405 (4 of 12 vessels) to Richland.

Accomplishments

3rd Quarter 2016

Sludge Treatment Project *(continued)*

Equipment Procurement/Fabrication *(continued)*



STSC Fabrication on ABW Shop Floor



STSC 402-405 Leaving the ABW Shop in Arlington, WA



STSC 2-5 Staged for Shipping



Receipt of Nitrogen Supply & Purge Panels



Installation of Nitrogen Purge Panel



Torquing Nitrogen Bottle Racks

Accomplishments

3rd Quarter 2016

Sludge Treatment Project (*continued*)

MASF Preoperational Acceptance Testing (MPAT)

- Completed process system equipment installation and MPAT successfully commenced April, 2016. On schedule to complete testing in July, 2016.
- Executed test activities through third quarter consistent with project schedule (approximately 70 percent complete).
- Disposition of Testing Deficiency Reports (TDRs)
 - 70 of 125 closed as of June 30th.
 - On schedule disposition of all TDRs by August, 2016.



Ventilation System Balancing



Preparing to Disconnect
Transfer Hose from STSC to
Support Booster Pump Baseline
Testing



Interlock & Blending Testing

Accomplishments

3rd Quarter 2016

105-K West Fuel Storage Basin Deactivation

- Preparation began on long range plan for the deactivation of K West Basin in support of Milestone M-016-178 (due 12/31/2019)

100K AB Waste Area Site Remediation

- Excavation continues which when completed will support the closure of 18 chemical waste sites
- In process samples taken for waste sites 126-KE-2, 100-K-14, 100-K-50 and 1607-K2; and work instructions for have been provided to EPA for review and approval.



100K Waste Site Area AB

Accomplishments

3rd Quarter 2016

165-KE Asbestos Abatement

- Completed thermal system insulation removal from piping in the building basement
- Completed the removal of 90% of the cement asbestos board from the building interior

100K Minimum Safe Activities

- Nothing to report.



CAB Removal on 275-EA



CAB Removal on 275-EA

Milestone Summary



Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs			
M-016-177	9/30/2017	Complete 105-KW sludge transfer equipment installation	On Schedule
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
M-016-178	12/31/2019	Initiate Deactivation of 105-KW Fuel Storage Basin	On Schedule
M-093-00 Complete Final Disposition of all 100 Area Surplus Production Reactor Buildings			
M-093-28	12/31/2019	Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage	On Schedule

Project Baseline Performance

(Contract to date through June 2016)

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	598.1	600.8	577.9	2.7	22.9	738.4	714.0	24.4	1.00	1.04

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)	SPI	CPI
Base Total	332.1	339.7	308.1	7.6	31.6	408.2	364.1	44.1	1.02	1.10

Planned Activities

July – December 2016

Sludge Treatment Project

Equipment Procurement/Fabrication

- Complete fabrication of STSC Vessels 2-13.
- Complete MPAT and disposition associated TDRs.
- Initiate equipment installation at 100K.

T-Plant Construction

- Complete NLOP equipment relocation at T-Plant.
- Initiate equipment installation in T-Plant cells.

Other Activities

- Prepare integrated DSA/TSR
- Finalized FY2017 PMB Update.

Planned Activities

July – December 2016

100K AB Waste Site Area Remediation

- Close out four waste sites, 1607-K2, 100-K-14, 100-K-50, 126-KE-2 (AB).
- Continue to remediate past – -20ft to -30ft on remaining AB Waste Sites (AB).
- Initiate additional remediation on 100K Waste Sites.

165-KE Asbestos Abatement

- Continue NPE setup.
- Continue glove bag installation.
- Continue TSI asbestos abatement
- Continue load out of TSI bagged material into ERDF containers
- Complete CAB removal in West battery room.
- Complete arc chute removal from MCC basement area.

PFP Closure Project

TPA Milestone Series: M-083



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Milestone Summary

Milestone/ Target Date	Due Date	Status	Description
M-083-00A	9/30/2017	On Schedule	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. Note: Also See "Description/Justification" Contained In Change Form M-83-01-03.
M-083-24-T01	6/30/2016	Complete	Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology.

Accomplishments 3rd Quarter 2016

- Approval of 1 year extension to Major Milestone M-083-00A
- Approval of PFP Complex S&M Plan Rev. 0
- Installation of barn doors to facilitate waste movement from 234-5Z duct level
- Pressure washed the 236Z canyon walls
- Performed 236Z gallery glovebox chemical drain line isolations and initiated vacuuming
- Completed size reduction of 1P&3P filter boxes



236Z Canyon Wall Washing

Accomplishments 3rd Quarter 2016

- Performed 236Z canyon strongback removal, decontamination and characterization
- Completed vacuuming and decontamination washdown of 236Z gallery gloveboxes
- Removed or dispositioned in place 571 feet of process vacuum piping and 84 feet of E4 ducting
- Completed E-4 removal and loadout from 242Z
- Completed 242Z tank isolation on mezzanine
- Abated 1145 feet of asbestos in 236Z, 242Z, and 234-5Z



Decontaminating 236Z Hot Spots

Accomplishments 3rd Quarter 2016

- Ancillary building 225WC was demolished
- 236Z canyon cleanup, painting and characterization was performed
- Removed or dispositioned in place 364 feet of process vacuum piping in 234-5Z
- Sampled tanks and sump in 242Z and prepared the open tanks for demolition



225WC Demolished

Project Baseline Performance

Contract to Date (Through June 2016)

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	\$945,103	\$896,680	\$913,635	(\$48,423)	-5.1%	(\$16,955)	-1.9%	\$978,938	\$1,036,123	(\$57,1851)

Fiscal Year to Date (Through June 2016)

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	\$81,633	\$60,429	\$70,839	(\$21,204)	-26.0%	(\$10,410)	-17.2%

Issues/Challenges

Regulatory (*heads up*)

- *Nesting season for migratory birds*
- *Asbestos reports for 236Z, 242Z, 242ZA, and 225WC were issued*
- *SAP for Removal of 236Z and 242Z Slabs*
- *Air Dispersion Model Rev. 2*

Non-Regulatory

- *In April, the wire rope on the 236Z crane jumped a sheave. The crane was returned to service on May 19*
- *Management of J Pan waste*
- *Recovered from an unplanned contamination event due to a malfunctioning criticality alarm*
- *Contractor Led Readiness Assessment*

Planned Activities Through December 2016

236Z (PRF)

- Perform a Readiness Assessment for Demolition
- Complete draining of chemical lines
- Complete Gallery glove box decontamination, fixative application, and isolation
- Remove TRU process piping and E4 ducting, and isolate filter boxes
- Prepare column and MT column glove boxes for extraction prior to demolition
- Remove hazardous materials and apply fixative to contaminated areas
- Grout below-grade ducts
- Complete cold and dark isolation activities and make ready for demolition
- Demolish 236Z (October)

242Z (Americium Facility)

- Complete tank characterization and prepare tanks for extraction during demolition
- Remove hazardous materials and apply fixative to tank room
- Grout sump
- Complete cold and dark isolation activities and make ready for demolition
- Prepare for demolition in January 2017

Planned Activities Through December 2016

234-5Z (RMA/RMC and Backside Rooms)

- Relocate residents
- Continue to remove ventilation and process piping and ducts
- Prepare tunnels for demolition activities
- Remove process support equipment
- Prepare for removal of large glove boxes during demolition
- Continue to remove hazardous materials
- Continue to remove friable asbestos
- Prepare for demolition in February 2017 (paint out, cold and dark isolations)

234-5Z (Duct Level)

- Drain remaining chemical lines
- Continue to remove hazardous materials
- Continue to remove friable asbestos
- Continue E3/E4 exhaust systems, filters, and filter box removal activities

291Z

- Remove 26" vacuum line
- Remove 291-Z filter boxes
- Characterize facility and remove asbestos and hazardous materials
- Prepare for demolition in February 2017

PFP Timeline and Sequence



236Z – October
 242Z – January
 234-5Z – February
 291Z - February

Demolition Sequence

1	236Z Plutonium Reclamation Facility	3	234-5Z Plutonium Finishing Plant
2	242Z Americium Recovery Facility	4	291Z Ventilation Stack and Fan House

Solid Waste Stabilization and Disposition Project RL-0013 Milestone Review

M-091, M-092, M-026



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Accomplishments

3rd Quarter 2016

- M-091-47B Certify or treat 280 m³ of TRUM/MLLW:
 - Completed 280 m³ in April 2016.
- M-091-47C Certify or treat 280 m³ of TRUM/MLLW:
 - On schedule for 9/30/17 completion.
- M-091-03 Annual Revision of Project Management Plan:
 - Completed in June 2016.
- M-091-51 Engineering Alternative Study:
 - Responding to Ecology 8/10/16 comments.



Loading waste box at CWC for shipment

Milestone Summary

Milestone or Target Date	Due Date	Description	Status
M-091-00	TBD	Complete Treatment to LDR Standards for all RCRA MLLW & TRUM Waste	On Schedule
M-091-03J	6/30/16	Submit Revision Of TRUM Waste And MLLW PMP To Ecology	Completed
M-091-47B	9/30/2016	Certify or treat 280 cubic meters of TRUM/MLLW waste, and submit a change request to establish a schedule	Completed
M-091-47C	9/30/2017	Certify or treat 280 cubic meters of TRUM/MLLW waste	On Schedule
M-091-47D	9/30/2018	Certify or treat 280 cubic meters of TRUM/MLLW waste	On Schedule
M-091-51	9/30/2016	Submit secondary document for new or modified facilities to process all Hanford Site RH TRUM waste	On Schedule
M-091-03K	6/30/2017	Submit Revision Of TRUM Waste And MLLW PMP To Ecology	On Schedule
M-091-52	9/30/2017	Submit change request with target dates for new/modified capabilities to process TRUM waste	On Schedule
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-091-03M	6/30/2019	Submit Revision Of TRUM Waste And MLLW PMP To Ecology	On Schedule
M-092-00	TBD	Acquire Facilities for Cs/Sr, Na and special case waste	On Schedule
M-092-05	6/30/2017	Determine disposition path and establish Cs/Sr interim milestones	On Schedule
M-092-09	9/30/2018	Establish Milestones and/or Target Dates for Sodium Facilities	On Schedule
M-026-07D	3/31/2019	Evaluation of Tritium Treatment Technology to EPA & Ecology	On Schedule

Project Baseline Performance

Through June 2016

RL-0013 Solid Waste Stab & Disp	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	1,059.5	1,058.8	994.2	(0.7)	-0.1%	64.7	6.1%	1,333.1	1,277.2	55.9

Numbers are rounded to the nearest \$0.1 million.

Project Baseline Performance

Contract to Date through June 2016

Dollars in Thousands

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Central Waste Complex	75,695.9	75,889.2	72,895.5	0.3%	3.9%
Waste Receiving and Processing Facility (WRAP)	43,378.9	43,378.9	41,551.6	0.0%	4.2%
T-Plant	89,771.2	89,020.0	71,249.1	-0.8%	20.0%
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	74,693.7	78,596.6	69,776.5	5.2%	11.2%
TRU Waste Disposition	30,934.4	30,934.4	22,345.0	0.0%	27.8%
Project Management	127,261.8	125,927.7	107,535.6	-1.0%	14.6%

Planned Activities

July – September 2016

- Submit Engineering Study/Alternatives Analysis (M-091-51) by 9/30/16.

Soil and Groundwater Remediation Project Milestone Review

M-015, M-016, M-024, M-085



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Accomplishments

3rd Quarter 2016

River Corridor

- CERCLA Decision Documentation
 - Transmitted Draft 100-KR-4 Draft Interim RD/RAWP, O&M Plan, and SAP to EPA
 - Issued 100-HR-3 Interim RD/RAWP, O&M Plan, and SAP
- Remedy Implementation
 - Initiated KW Rebound Study
 - Initiated drilling of six 100-NR-2 monitoring wells
 - Initiated drilling of eight wells for the 100-HR-3 pump and treat system
 - Initiated drilling of three wells for the 100-KR-4 pump and treat system
 - Completed installation of eight 100-F/IU remedy monitoring wells per ROD



Well drilling at 100-NR-2 Operable Unit

Accomplishments

3rd Quarter 2016

Central Plateau

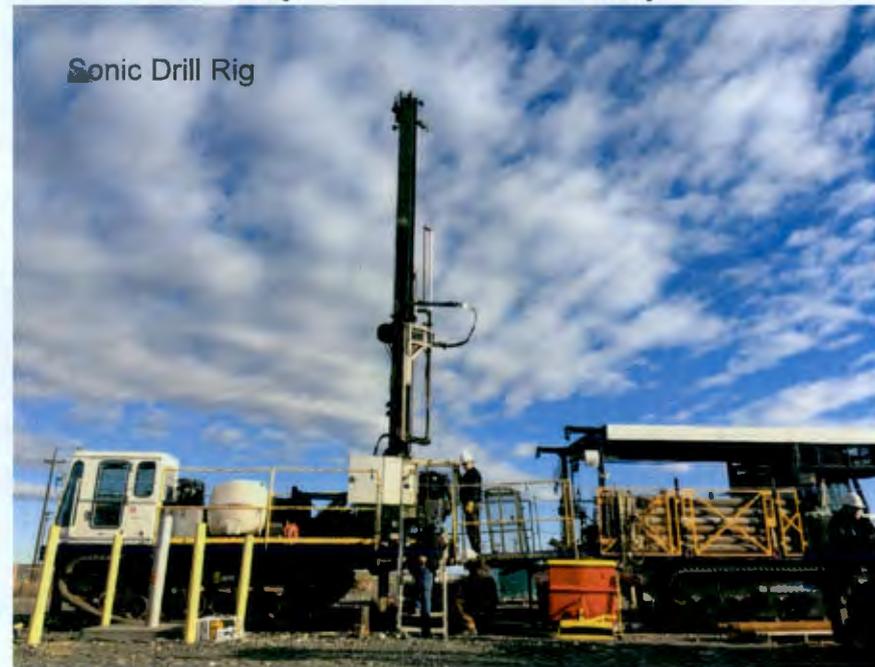
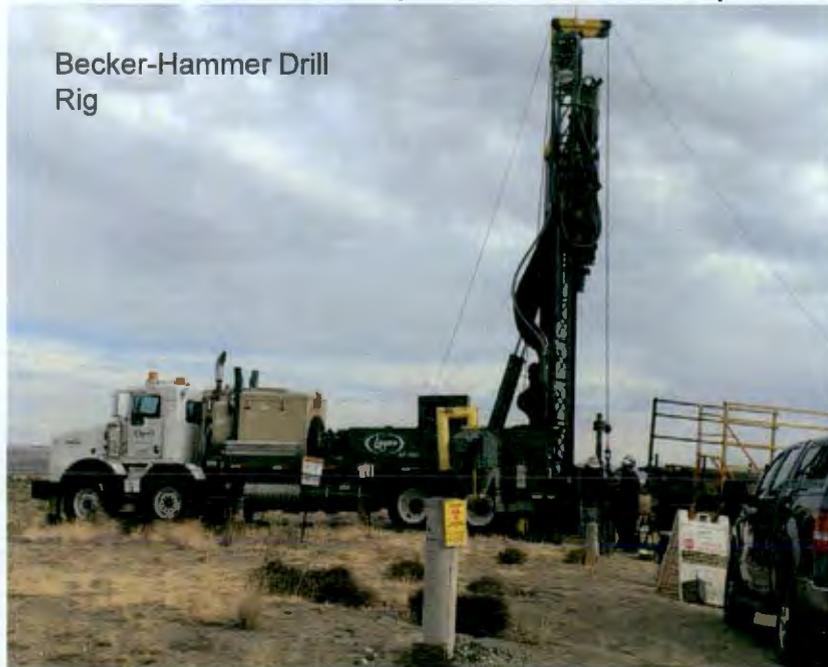
- CERCLA Decision Documentation
 - Initiated preparation of the 200-EA-1 Work Plan
 - Submitted Rev 1 200-SW-2 RI/FS Work Plan to Ecology (approved August 11)
 - Completed 200-SW-2 RI/FS Sampling and Analysis Plan
 - Resolved EPA comments on 200-WA-1 RI/FS Work Plan and submitted draft Rev. 0
 - Completed regulator review of Draft A 200-BP-5 Treatability Test Report

- Remedy Implementation
 - Completed 200-BP-5 (for 2nd well) and 200-DV-1 (perchwater) design and initiated pipeline construction
 - Completed two of ten FY2016 200-UP-1 remedy performance monitoring wells (six drilled)

Accomplishments

3rd Quarter 2016

- 200-DV-1
 - Completed 17 of 21 shallow boreholes and one of five deep vadose zone boreholes
 - Completed two of three perched water tests in May, initiated third on May 17



Becker Hammer first drills to ~40 ft bgs; then Sonic Drill Rig drills to total depth. Combined, able to drill to 240+ ft bgs.

Milestone Summary through FY19

M-015-112	2/28/2014	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	Dispute Resolution
M-015-79	12/15/2016	Submit CERCLA Remedial Investigation/Feasibility Study Report & Proposed Plan for 100-BC-1/2/5	On Schedule
M-015-92A	9/30/2017	Submit RCRA FICMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	On Schedule
M-015-21A	6/30/2018	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) 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	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	On Schedule
M-015-99	6/30/2019	Complete remedial investigations of PFP wastes sites located in 200-WA-1 in accordance with WP	On Schedule
M-016-00	9/30/2042	Complete remedial actions for all non-tank farm & non-canyon OUs	On Schedule
M-016-110-T03	12/31/2016	Take Actions To Contain Sr-90 GW Plume at 100-NR-2 OU	At Risk
M-016-110-T04	12/31/2016	Implement Remedial Actions in All 100A RODS For GW Ous	At Risk
M-016-193	9/30/2017	Investigate SE Chromium Plume per 200-UP-1 RD/RAWP	On Schedule*

* Extension being requested

Milestone Summary through FY19

Milestone or Target Date	Due Date	Description	Status
M-024-000	TBD	Complete Well Installations with RCRA/CERCLA Requirements	In Program Planning
M-024-67-T01	8/1/2016	Conclude Discussions of Well Commitments	Complete
M-024-58J	6/1/2017	Initiate Discussions of Well Commitments	On Schedule
M-024-68-T01	8/1/2017	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-68	12/31/2017	Complete Construction of All Wells Listed for CY 2017 and Before as Identified in M-024-14-01	On Schedule
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, as identified in TPA CP M-24-15-01	On Schedule
M-085-00	TBD	Complete Response Actions for Specified Canyon Fac. & Waste Sites	In Program Planning
M-085-70	9/30/2019	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CB-1 to Ecology	On Schedule

RL-30 Project Baseline Performance

Contract to Date Through July 2016

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	1,263.2	1,250.0	1,220.7	-13.2	-1.0%	29.3	2.3%	1,564.8	1,490.9	73.9

Numbers are rounded to the nearest \$0.1 million.

Issues

- Path forward for Central Plateau groundwater modeling (impacting completion of 200-BP-5 RI and 200-PO-1 RI Addendum)
- Path forward for TPA Milestone M-015-112 (TSD determination) (impacting completion of 200-IS-1 RI/FS)

Planned Activities

July – September 2016

- CERCLA Decision Documentation
 - Complete 200-SW-2 RI/FS Work Plan (August 11)
 - Complete 200-DV-1 RI/FS Work Plan
 - Complete 200-WA-1 RI/FS Work Plan
 - Initiate preparation of Draft A 100-BC-5 RI/FS Report
 - Initiate public review for 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 Proposed Plan
 - Issue 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 ROD
 - Resolve 200-IS-1 dispute
 - Resolve Central Plateau groundwater modeling
- Remedy Implementation
 - Implement all approved CERCLA SAPs
 - Complete 200-DV-1 perched water test in the B Farm Area
 - Complete well drilling and piping realignment for 100-HR-3, 100-NR-2, and 200-ZP-1
 - Complete well drilling for 100-NR-2
 - Continue M-024 well drilling

Central Plateau Remediation Project RL-40

Milestone Review M-016, M-037, M-085



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Accomplishments

3rd Quarter 2016

Minimum Safe/Maintenance Activities

- Completed B Plant Surveillances.
- Completed Miscellaneous Facilities surveillances (e.g. 292B/BL, 231Z, etc.).
- Performed REDOX entries for the purpose of performing Non-Destructive Assay on PU Bags. In addition, measurements were taken for Glove Bag Construction, Ventilation, Electrical, Scaffolding.
- Performed Borescope activity for a subsidence area South of door 18 at PUREX.
- Applied fixative on ducts at 2711-S as well as asbestos encapsulation on ducting on the South Side of REDOX.
- Performed annual Staplex Air Sampler Calculation.



Performing Borescope Activity



Insulators Installing Glove Bags at 2711-S

Accomplishments

3rd Quarter 2016

Nuclear Safety

- Completed Draft PUREX Rev. 9 Annual Update, USQ Determination Summary, and revised Fire Hazard Analysis – includes release of hazard categorization documentation (to < HC-3) for several PUREX ancillary facilities to allow for D&D in the coming year.
- Completed Draft REDOX Rev. 6 Annual Update, USQ Determination Summary, and revised Fire Hazard Analysis.
- Completed Draft 224-B Annual update (letter and USQ Determination Summary only).
- Supported development of REDOX Pu Bag Removal design and work documents, and future REDOX cleanout work planning.
- Supported D&D planning and performance of the 2710-S, 2711-S, and 2718-S ancillary structures at REDOX.
- Supported development, review, approval, and implementation process of new Safety Bases for the 241-Z-361 Tank and 216-Z-9 Crib, which will be officially turned over to CPS&M upon completion of implementation.
- Supported CPS&M Operations with ongoing NS and USQ reviews of design and work documents.

Accomplishments

3rd Quarter 2016

Canyon Stabilization Documents

- Completed the Closure Plan for the PUREX North RCRA tank closures. A tentative public comment date is set for July 18 for 60 days.
- Finalized the REDOX Fire Hazard Analysis.
- Initiated deactivation planning at REDOX (silos, north sample gallery).
- Completed the revisions to the B Plant EE/CA.
- Completed draft of Removal Action Work Plan (RAWP) for 276-BA, 222-B, and 2716-B; this supports the closure of the 276-BA tank and upcoming FY2017 scope.
- Initiated the draft of the RAWP for PUREX ancillaries (203-A and 211-A).
- Extended the public comment period for the 276-BA closure plan to August 9, 2016.

Additional Work

- Removed Class 1 & 2 Asbestos material from REDOX buildings 2711-S and 2718-S.
- Completed electrical and mechanical isolations at 2711-S and 2718-S.



Isolations at 2711-S



Asbestos Removal at 2710-S

Milestone Summary through FY19

Milestone	Due Date	Description	Status
M-016-00 Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs			
M-016-250b	3/31/2017	Develop a three year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions	On Schedule
M-016-255	9/30/2018	DOE shall complete the removal of all waste sites for fiscal year 2018 as identified in TPA change package M-16-16-01	On Schedule
M-037 TSD Closure Activities			
		Milestones due post 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.	On Schedule
M-085-74	6/30/2018	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 B Plant Geographic Area listed in HFFACO Appendix J.	On Schedule
M-085-80A	9/30/2017	Submit to Ecology as a secondary document a data quality objectives report to assess the structural integrity of the PUREX storage tunnels 1 and 2.	On Schedule

Project Baseline Performance

Contract to Date Through June 2016

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
Total	418.2	414.8	383.6	-3.5	31.2	469.1	446.7	22.4	.99	1.08

Numbers are rounded to the nearest \$0.1M

Planned Activities

July – December 2016

Minimum Safe/Maintenance Activities

- Perform surveillance of PUREX facility
- Replace Motor Mounts for B-Plant fans
- Perform PUREX Annual Surveillance
- Perform REDOX surveillance.
- Complete U Plant annual surveillance (support T-Plant entry into canyon to identify usable crane parts).
- Complete NESHAPS inspections at PUREX and B Plant.
- Complete repair at PUREX Stack Sampling System.



Mock-up REDOX HVAC



REDOX Entry to Perform RCT Surveys

Planned Activities

July – December 2016 (Continued)

Nuclear Safety

- Support planning and preparations for further REDOX deactivation work, including initial planning for new Hazard and Accident Analyses for North Sample Gallery and Silo (clean areas) cleanout activities in 2017.
- Support planning and preparations for further PUREX deactivation work.
- Support development and submittal of B Plant DSA Annual Update – includes development and issue of hazard categorization documentation (to < HC-3) for several B Plant ancillary facilities to allow for D&D in the coming year.
- Continue CPS&M Operations support for ongoing NS and USQ reviews of design and work documents.

207A South Retention Basin Closure:

- Awaiting Final Permit Modification.

Planned Activities

July – December 2016 (Continued)

Canyon Stabilization Documents

- Submit REDOX and B-Plant EE/CA for regulator informal review.
- Submit PUREX EE/CA for RL Review.
- Issue PUREX FHA.
- Approval of 276-BA RAWP and PUREX North RAWP to RL.

Other Work:

- Complete demolition of high risk facilities at REDOX facilities including 2710-S, 2711-S, and 2718-S.
- Remove REDOX PU Nitrate Bags.

TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
1	Central Plateau Source Inner Area	200-IS-1 200 Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submittal 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 Dispute Resolution	2/28/2014	TBD	D. Hildebrand	B. Day	N. Menard	Ecology	Dispute Resolution extended to November 1, 2016. RI and Ecology are continuing the Work Plan preparation workshops as part of the RI/FS WP development.
2	Central Plateau Source Inner Area	200-IS-1	TSD - Closure Plan for the Hazwous Storage and Treatment Facility TSD Unit	M-037-01: Submittal Revised Closure Plan to support TSD closure of the Hazwous Storage and Treatment Facility (276-S-141/142) TSD Unit. Complete	Milestone Completed 7/18/2010		D. Hildebrand	B. Day	N. Menard	Ecology	Comments received. Anticipated to start in 2017 if funding is available.
3	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area	TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 RO), 216-A-29 Ditch (DOE/RL-2008-S3 R1), 216-A-38B Crib (DOE/RL-2005-90 RO), 216-A-37-1 Crib (DOE/RL-2005-88 RO), and 216-B-63 Trench (DOE/RL-2006-11 R1)	M-037-02: Submittal Revised Closure Plan to support TSD closure for five (5) TSD Units Complete	Milestone Completed 6/23/14	6/24/2014 12/9/2014	M. Kemal	B. Day	N. Menard	Ecology	Comment periods completed. Awaiting Ecology resolution on public comments and issuance of permit.
4	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area	RFI/CMS & RI/FS Work Plan	M-015-91A: Submittal 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	9/30/2017	10/3/2017 11/30/2017	D. Hildebrand	B. Day	N. Menard	Ecology	Initiated Draft.
5	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	RI/FS Work Plan	M-015-91A: Submittal Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA. Complete	Milestone Completed 12/27/2011	10/1/2015 11/16/2015	J. Sandoz	P. Byrnes	C. Cameron	EPA	Redlined, hard copy was provided to EPA on August 31, 2016. Comments from Yakima Nation were received August 8.
6	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS Work Plan - Draft B	M-015-113: Submittal Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-SW-2 OU to Ecology Complete	Milestone Completed 3/25/2015	4/1/2015 5/26/2015	D. Hildebrand	B. Day	E. Eberlein	Ecology	Ecology signature on the Rev 1 Work Plan received August 11, 2016.
7	Central Plateau Source Deep Vedose Zone	200-DV-1 Deep Vedose Zone	RI/FS Work Plan	M-015-110A: Submittal RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of deep vedose zone contaminants. Complete	Milestone Completed 3/18/2015	4/1/2015 6/24/2015	J. Hanson	M. Byrnes	D. Goussard	Ecology	RI delivered the RI signed Rev 0 RI/FS Work Plan to Ecology on July 28, 2016. Ecology is currently performing a last review of the document before signing.
8	Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	TSDs - Closure Plan for 216-B-3 Main Pond and 216-S-10 Pond and Ditch	M-037-03: Submittal Revised Closure Plans Complete	Milestone Completed 4/18/2013	4/19/2013 7/17/2013	J. Sandoz	B. Day	N. Menard	Ecology	NOD was issued and response submitted. Major issues have been identified related to non-TSD past-practice contamination and these issues remain unresolved.
9	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5 RI Report	None		5/11/2015 TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	RI Transmitted the Draft A 200-BP-5 RI report to the regulators for review on August 11, 2015. Ecology suspended their review on October 23, 2015. On February 9, Ecology issued a letter indicating they will restart their review, require a minimum of 4 months to complete their review and require additional fate and transport modeling information. Subsequent milestone may be at risk if not resolved.
10	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-PO-1 RI Report Addendum	None		8/11/2015 TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	RI Transmitted the Draft A 200-PO-1 RI report addendum to the regulators for review on August 11, 2015. Ecology suspended their review on October 23, 2015. On February 9, Ecology issued a letter indicating they will restart their review, require a minimum of 4 months to complete their review and require additional fate and transport modeling information. Subsequent milestone may be at risk if not resolved.
11	Central Plateau Groundwater	200-BP-5 200 East Area Groundwater	200-BP-5 Action Memo	None		TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	Expect submittal of Draft to Ecology in September.
12	Central Plateau Groundwater	200-UP-1 200 West Area Groundwater	Technology Evaluation Plan	M-016-192: Submittal I-129 Technology Evaluation Plan Draft A to EPA as defined in the 200-UP-1 ROD/RA WP Complete	Milestone Completed 12/1/2015	6/18/2016 8/1/2016	K. Ansteth	PAVE	E. Laifu	EPA	Meeting will be scheduled with EPA to discuss path forward.
13	River Corridor	100-BC-1, 100-BC-2, 100-BC-5 100-B/C	RI/FS Report and Proposed Plan	M-015-79: Submittal RI/FS Report and PP for 100-BC On Schedule	12/15/2016	12/16/2016 01/30/2017	G. Sinton	R. Ewins	L. Suelew	EPA	RI/FS and Proposed Plan being revised in FY16 to incorporate additional data.

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

(Information current as of 8/11/2016)

TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
14	River Corridor	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	R/I/FS Reports and Proposed Plan	M-015-70-TB1: Submit FS & PP for HR 1/2/3 and DR 1/2 Complete	Target Completed 12/14/2012	7/26/2016 6/25/2016	S. Balone	M. Drewett	N. Menard	Ecology	Proposed plan issued for public comment on July 26, 2016. ROD issuance scheduled for September 30, 2016.
15	River Corridor	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	Interim Action Remedial Design / Remedial Action Work Plans	None			S. Balone	M. Drewett	N. Menard	Ecology	Interim Action RD/RAWP, SAP and O&M, Rev0 plans issued July 18, 2016.
16	River Corridor	100-KR-1, 100-KR-2, 100-KR-4 100-K	R/I/FS Reports and Proposed Plan	M-015-66-T01: Submit R/I/FS Report and PP for 100-K. Complete	Target Completed 9/21/2011		S. Balone	M. Drewett	R. Lobos	EPA	The characterization boreholes at 100-KE Reactor waste sites completed. Draft Field Investigation report, including PNNL leach testing results, to be submitted in September 2016. R/I/FS rewrite scheduled to begin in FY2017.
17	River Corridor	100-KR-1, 100-KR-2, 100-KR-4 100-K	Interim Action Remedial Design / Remedial Action Work Plans	None		7/10/2016 9/2/2016	S. Balone	M. Drewett	R. Lobos	EPA	EPA reviewing Interim Action RD/RAWP, SAP and O&M plans. Final plans scheduled for submittal in October 2016.
18	River Corridor	100-HR-1, 100-HR-2 100-H	R/I/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for HR 1/2 Complete	Milestone Completed 6/24/2013	6/25/2013 10/2/2013	G. Sinton	B. Fought	A. Boyd	Ecology	Ecology is not reviewing the PP until R/I/FS comment resolution is complete. Disposition meetings with ECI are ongoing. Resolution of Ecology's comments on the Draft A R/I/FS has been extended through September 30, 2016.
19	River Corridor	100-HR-1, 100-HR-2 100-H	Interim Action Remedial Design / Remedial Action Work Plans	None		10/22/2015 12/4/2015	G. Sinton	B. Fought	A. Boyd	Ecology	Final document issued on July 18, 2016
20	Central Plateau Groundwater	200-BP-5	200-BP-5 Sampling and Analysis Plan	None		TBD TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	Second set of Ecology comments issued 8/4/2015 (1b-NWP-136)
21	Central Plateau Groundwater	200-BP-5	LLBG WMA-1, RCRA Groundwater Monitoring Plan	None		10/7/2015 11/9/2015	D. Hildebrand	B. Fought	S. Lattreil	Ecology	Rev. 1 cleared for release, will be issued pending letter completion
22	Central Plateau Groundwater	200-BP-5	LLBG WMA-2, RCRA Groundwater Monitoring Plan	None		TBD TBD	D. Hildebrand	B. Fought	S. Lattreil	Ecology	Draft Rev. 1 is complete. Waiting for resolution of "Green Islands"
23	Central Plateau Groundwater	200-PO-1	200-PO-1 Sampling and Analysis Plan	None		TBD TBD	J. Hanson	C. Wittreich	N. Menard	Ecology	Resolution of Ecology comments on SAP dependent on their review of the RI report.
24	Central Plateau Groundwater	200-PO-1	SWL, Groundwater Monitoring Plan	None		1/12/2016 5/2/2016	D. Hildebrand	B. Fought	S. Lattreil	Ecology	Rev. 0 is cleared and holding, will be issued pending letter completion
25	Central Plateau Groundwater	200-PO-1	SST WMA-A-AX, RCRA Groundwater Monitoring Plan	None		10/7/2015 ?	D. Hildebrand	B. Fought	J. Lyon	Ecology	
26	Central Plateau Groundwater	200-PO-1	216-A-25, RCRA Groundwater Monitoring Plan	None		12/8/2015 2/8/2016	D. Hildebrand	B. Fought	N. Menard	Ecology	Site went into assessment, interim status groundwater monitoring plan is on hold.
27	Central Plateau Groundwater	200-PO-1	216-A-36B, RCRA Groundwater Monitoring Plan	None		10/7/2015 2/8/2016	D. Hildebrand	B. Fought	N. Menard	Ecology	
28	Central Plateau Groundwater	200-PO-1	216-A-37-3, RCRA Groundwater Monitoring Plan	None		10/27/2015 2/12/2016	D. Hildebrand	B. Fought	N. Menard	Ecology	
29	Central Plateau Groundwater	200-PO-1	216-B-3, RCRA Groundwater Monitoring Plan	None		1/7/2016 8/8/2016	D. Hildebrand	B. Fought	N. Menard	Ecology	
30	Central Plateau Groundwater	200-PO-1	MRDWA, RCRA Groundwater Monitoring Plan	None		10/7/2015 11/9/2015	D. Hildebrand	B. Fought	S. Lattreil	Ecology	Rev. 0 is cleared and holding, will be issued pending letter completion
31	Central Plateau Groundwater	200-ZP-1	LLBG WMA-3, RCRA Final Status Groundwater Monitoring Plan	None		TBD TBD	D. Hildebrand	B. Fought	TBD	Ecology	
32	Central Plateau Groundwater	200-UP-1	216-S-10, RCRA Groundwater Monitoring Plan	None		10/7/2015 2/12/2016	D. Hildebrand	B. Fought	N. Menard	Ecology	
33	River Corridor Groundwater	300-FF-5	300 APT, RCRA Groundwater Monitoring Plan	None		12/8/2015 2/2/2016	D. Hildebrand	B. Fought	S. Schney	Ecology	Rev. 0 will be issued pending completion of the clearance and letter. A permit modification will be required
34	River Corridor Groundwater	100-HR-3	183-H, RCRA Groundwater Monitoring Plan	None		10/27/2015 12/7/2015	D. Hildebrand	B. Fought	N. Menard	Ecology	Rev. 0 will be issued pending completion of the clearance and letter. A permit modification will be required

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

(Information current as of 8/31/2016)

RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: May - August 2016



Tri-Party Agreement

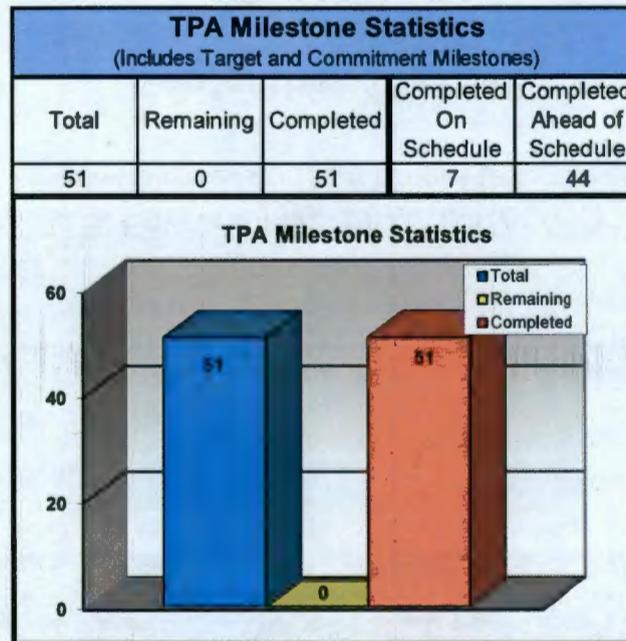
River Corridor Milestones:

M-16

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

September 15, 2016

Protecting the Columbia River



Quarterly Summary (May – August 2016)

- **Completed TPA Milestones:**
 - None

- **Approved Change Requests:**
 - M-16-16-04 approved on 5/23/16. Revised description of M-016-00B, and established new TPA milestone M-016-86 due on 9/30/21.

- **Transitioned TPA Milestones:**
 - WCH remaining scope transitioned to CHPRC on 8/29/16. Four remaining TPA milestones (M-016-164, M-016-00A, M-016-00B, M-016-86) were included in this transition.

TPA MS No.	Compliance Date	Title	Status	Comments
M-016 Milestones - Remedial Action				
M-016-164	03/31/17	Complete 100-N Interim Response Actions by Performing Remediation of Following Waste Sites: 100-N-28, 100-N-35, 100-N-53, 100-N-54, 100-N-55, 100-N-62, 100-N-68, 100-N-81, 100-N-82, 100-N-83, 100-N-84, 100-N-86, 100-N-87, 100-N-88, 100-N-89, 100-N-90, 100-N-91, 100-N-92, 100-N-93, 100-N-94, 100-N-95, 100-N-96, 100-N-97, 100-N-98, 100-N-99, 100-N-100, 100-N-101, 100-N-102, 100-N-103, 120-N-4, 130-N-1, 600-340, 628-2, UPR-100-N-18, UPR-100-N-20, UPR-100-N-24, Including Backfill/Revegetation of M-016-163 Sites. Close 100-N ancillary facilities areas of contamination in accordance with RAWP for 100-N Area ancillary facilities.	On Schedule	All work except revegetation of 100-N-83 was completed by WCH. Milestone was transitioned to CHPRC on 8/29/16.
M-016-00A	03/31/17	Complete All Response Actions for the 100 Area Units (except groundwater actions which are covered under M-016-00 and 100-K Area Response Actions Addressed in M-016-00C), by the Specified Due Date as Approved in a Remedial Design/Remedial Action Work Plan	On Schedule	Milestone was transitioned to CHPRC on 8/29/16.
M-016-00B	09/30/18	Complete All 300 Area Remedial Actions Including 618-10 Burial Ground, but not Including 618-11 Burial Ground, 300-296, and Sites Associated with Retained 300 Area Facilities and Utility Corridors	On Schedule	Milestone was transitioned to CHPRC on 8/29/16.
M-016-86	09/30/21	Complete Remedial Actions for 618-11 Burial Ground in Accordance with RD/RA Work Plan for 300-FF-2 Soils (DOE/RL-2014-13-ADD1)	On Schedule	Milestone was transitioned to CHPRC on 8/29/16.

Significant Accomplishments – For Last 4 Months:

M-016 – Remedial Action / Risk Assessment

- Completed remediation of 600-385
- Completed removal of remaining miscellaneous restoration items at 100-IU Segment 4
- Completed geophysical survey of 600-349
- Completed demobilization of all facilities at 100-D Area
- Disconnected power and removed 100-D and 100-N electrical switches/panels
- Received approval of 4 waste site closure documents
- Completed remediation of 300-288:2 west expansion (Phase II)
- Completed removal of miscellaneous restoration items at 300FF2-244, issued completion report, and completed hydroseeding
- Completed demobilization of 300 Area facilities
- Completed augering of 80 618-10 overcased vertical pipe units (VPUs)
- Completed low-level waste retrieval of 33 VPUs



300-288:2 Remediation



Surveying Auger Stem Inside Auger Tool Enclosure at 618-10

Significant Accomplishments – For Last 4 Months (cont'd):

ERDF

- For period May-August, disposed ~ 170,700 tons of waste (63,500 tons from OHCs); bringing total to ~ 18 million tons disposed in ERDF
- Placed and completed grouting heel pit in cell; first in-cell macroencapsulation since receiving waiver
- Began ERDF leachate transfer to 200 West Pump and Treat Facility
- Completed repacking, grouting, and placing in-cell legacy chromium containers from 100-F Area
- Completed super dump lift-gate hinge mount repair



Equipment Placed in Cell - Awaiting Flood Grouting
(Orphaned chromium containers will be used as forms for flood grouting this equipment.)

Significant Actions Planned – For Next 3 Months:

M-016 – Remedial Action / Risk Assessment

- N/A – Transitioned to CHPRC on 8/29/16

ERDF

- N/A – Transitioned to CHPRC on 8/29/16

PERFORMANCE SUMMARY
Contract Inception (8/27/05) through August 2016
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Mar	Aug	Mar	Aug
D4	660,210	633,601	659,957	649,378	572,092	-10,881	-10,579	77,252	77,287
Reactor ISS	75,902	81,777	75,902	75,902	81,777	0	0	-5,875	-5,875
Field Remediation	972,162	895,057	966,062	921,894	851,632	-51,872	-44,169	70,096	70,261
Waste Operations	637,120	514,899	633,061	633,360	511,139	8,577	299	124,760	122,221
ES/FC	81,206	59,750	80,581	80,083	59,717	-2,270	-498	18,198	20,365
Mission/General Support	443,995	405,207	439,239	439,239	399,850	0	0	36,669	39,389
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency						0	0	0	0
TARGET COST TOTAL	2,874,575	2,594,039	2,858,782	2,803,835	2,479,955	-56,446	-54,947	321,331	323,880

Schedule Variance (PMB): (\$54,947K)

- Variance associated with 618-11 due to funding constraints; 618-10 remediation due to a delayed release and numerous drums; remediation delay at 316-4 (awaiting completion of 618-10 for access to the site).
- Delay in D4 due to waste site discovered beneath 324 Building. (Awaiting approval of 324 descope change proposal.)

Cost Variance (PMB): \$323,880K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; and in utility charges and surveillance and maintenance activities.
- 100-B/C, 100-D, 100-F, and 100-IU-2/6 remediation underruns due to favorable subcontract rates largely offset by overruns at 300 Area due to delayed release of facilities, and 618-10 due to quantity growth and change to hazard category 3.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, disposal, and construction; and Mission/General Support efficiencies in Project Services, Project Integration, and Office of General Manager.

RCC Issues

None