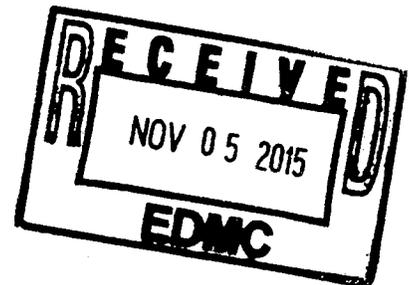


River Corridor/Central Plateau Quarterly Tri-Party Agreement Milestone Review Meeting Minutes

Department of Ecology Building
Richland, Washington

September 17, 2015



Tri-Party Agreement River Corridor/Central Plateau Milestone Review
September 17, 2015

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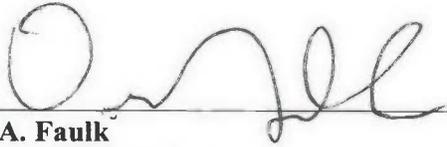
SIGNATURES

Approval: 
J.A. Hedges
Ecology Representative

Date: 11/4/15

Approval: 
R.J. Corey
DOE-RL Representative

Date: 10/20/15

Approval: 
D.A. Faulk
EPA Representative

Date: 11/2/15

Minutes Prepared by:

M.J. Turner
Mission Support Alliance

Date: 10/19/15

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

Quarterly Summary (April – June 2015) – DOE-RL noted that there were no TPA milestones completed and no approved change requests during the quarter.

Milestone Status:

M-16-69 - DOE-RL reported that it anticipates sending a completion letter, pending EPA approval of the remaining waste site classifications and revegetation of the waste sites in the 300 Area that are already completed.

M-16-149 – DOE-noted that this milestone is at risk, and there will be further discussion under RCC issues.

M-16-161 – DOE-RL stated that this milestone is at risk, and there will be further discussion under RCC issues.

M-89-06 – DOE-RL stated that this milestone is on schedule for the high level vault and the 324 Building cells.

Significant Accomplishments - For Last 3 Months:

M-16 - Remedial Action/Risk Assessment – DOE-RL reported that backfill of nine waste sites was completed during the quarter, and 15 waste site closure documents were approved, primarily in the 100-D Area. DOE-RL noted that waste sites have been closed out in the 100-H Area, I/U-6 and the 300 Area during the year.

M-94 - 300 Area Surplus Facilities Disposition – DOE-RL reported that backfilling has begun on the 309 Building.

ERDF - DOE-RL noted that the actions planned for the next three months were already executed during the spring, April through June 2015.

Significant Actions Planned – For Next 3 Months:

M-89 – 324 Bldg. Non-Permitted Mixed Waste Units Closure – DOE-RL reported that review and approval were completed for the 300-296 90 percent design deliverables and 100 percent design elements. DOE-RL noted that the demolition and debris loadout of the 300-296 Proof of Principle site was a two-day mockup effort that was completed.

RCC Issues:

600-385 and 600-349 Waste Site Cultural Resource Review – DOE-RL stated that there have been delays in obtaining the Washington State Historic Preservation Office (SHPO) approval on the Memorandum of Agreement (MOA) to allow field remediation at the 600-385 site. DOE-RL added that all of the MOA comments have been received, and negotiations are still under way regarding the Tribes' final input. DOE-RL stated that completion of M-016-161 is at risk because it was anticipated that remediation would start at the beginning of September 2015, and there are now only about 30 days before the eagle nesting season starts in November. DOE-RL added that it's unlikely the work can be completed before the eagle nesting seasons starts, which leaves a very short window of time following the eagle nesting period in the February/March time frame. Ecology asked how long the negotiations have taken with SHPO. DOE-RL responded that the MOAs were sent to the Tribes for review in July 2015. DOE-RL noted that there were lengthy negotiations to put together five MOAs, and that some of the MOAs were started in 2012 and 2013. Ecology also offered any assistance, if needed. EPA stated that it would not provide relief since it had already given DOE-RL a year to resolve the issue. EPA reiterated its position that DOE-RL has complete control of how it manages the process, and does not have to enter into MOAs under CERCLA because it's an administrative process that is not required. DOE-RL, Ecology and EPA agreed that the MOA process with the tribes would be a good agenda topic for the Senior Executive Committee (SEC). Ecology indicated that before scheduling the MOA process with the SEC, it would follow up on the issue.

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

Accomplishments 3rd Quarter 2015 – Minimum Safe Activities – DOE-RL noted that several surveillance activities were completed, and referred to the last bullet regarding the WIDS site housekeeping. DOE-RL stated that the weed spraying equipment was broken for about a month, and that may result in slightly higher than normal contaminated tumbleweeds during the next couple months, which will be responded to accordingly.

DOE-RL stated that the B Plant HEPA filter change-out was completed. DOE-RL added that a white paper will be issued citing the significant savings in man REM exposure by doing the HEPA filter change-out every three years instead of every year. DOE-RL stated that some asbestos blew off PUREX tank 30, which is a ten-foot tall tank, and the asbestos on the tank was battened down and the asbestos that fell on the ground was cleaned up. DOE-RL pointed out that the cleanup around tank 30 is another indicator of the need for the surveillance and maintenance (S&M) program and to spend money appropriately.

DOE-RL noted that several updated documented safety analyses (DSAs) were received from various facilities in accordance with the annual schedule, and the 216-Z-9 DSA will be taken over by the S&M program as the Plutonium Finishing Plant (PFP) is demolished.

Accomplishments 3rd Quarter 2015 – Additional Work – DOE-RL reported that all of the paperwork is in place associated with the 207-A South Retention Basin closure, which was done in coordination with Ecology. DOE-RL noted that there were a few issues with documentation that did not allow work to start prior to the currently in-progress 242-A Evaporator campaign, and the next window available will be after September 24, 2015. DOE-RL stated that there are three basins side by side, about eight feet deep, which are believed to be clean. The basins will be crunched up and taken to ERDF, and then sampling will be done to confirm the area is clean. DOE-RL indicated that the work could be completed anywhere from a week and a half to four to five weeks, depending on the weather.

Milestone Summary – DOE-RL noted that U-Plant barrier construction is at risk, but that all of the milestones are under re-negotiation. EPA referred to M-085-01, which is due in September 2022, and suggested changing the milestone to match up with the M-015 milestone that sets the schedule for all the waste sites. EPA stated that it would be premature to set the canyon schedules before the schedule for the waste sites are established, and that the schedules should be done at the same time. DOE-RL and Ecology agreed with EPA and will follow up with the appropriate staff.

B Plant ALARACT – DOE-RL stated that during maintenance of a B Plant fan, there were issues noted on the fan bearing, resulting in a Department of Health (DOH) notification that DOE-RL would be entering into an As Low As Reasonably Achievable Control Technology (ALARACT). DOE-RL noted that the ALARACT was entered into at 10:00 a.m. this morning, which was the 48-hour break time, and it expected to be out of the ALARACT by Monday afternoon (9/21/15). DOE-RL stated that entering into an ALARACT is a standard procedure when a canyon fan has to be shut down. DOE-RL added that the criteria is if the fan is down for more than 48 hours, a manual RCT monitoring of doors, etc., is done to detect any contamination coming out.

Hanford 100-K Remediation - M-016 and M-093 TPA Milestones

Accomplishments – 3rd Quarter 2015:

Construction - DOE-RL reported that the annex construction is essentially complete, and efforts are focused on completing the punch list items. DOE-RL stated that the permanent power has been hooked up to the annex building, and the ventilation system has been installed so the building will be heated during the winter.

Equipment Procurement and Fabrication - DOE-RL stated that all of the equipment needed to perform cold commissioning is either in fabrication or ready to be received on site. DOE-RL noted that the intent is to start cold commissioning next year and it is on track.

Cold Commissioning - DOE-RL stated that preparations continue at the Maintenance and Storage Facility (MASF) test facility for cold commissioning. DOE-RL reported that a demonstration was completed showing that the Sludge Transportation and Storage Container (STSC) can be vented in the cask, which will be needed in order to disconnect the hoses and safely ship the whole STSC over to T Plant.

100-KE Characterization Wells – DOE-RL reported that all of the work planning to initiate drilling operations on the UPR-100-K-1 site was completed, and the work started in July 2015. DOE-RL added that the soil sampling was completed in early September 2015, and although the lab results aren't back yet, the readings as the drilling was going forward indicated nothing out of the ordinary. DOE-RL stated that the well construction has started at the UPR site, and it is expected to be completed by the end of September 2015.

Milestone Summary – DOE-RL stated that all of the milestones are on schedule.

Planned Activities July 2015 – December 2015:

Sludge Treatment Project - DOE-RL again noted that the annex construction has been completed. The next main phase of construction work will start in the basin with the removal of the lids on the engineered storage containers. The lids will be replaced with different lids that will make it easier to retrieve the material during sludge removal. DOE-RL stated that preparations will be initiated in support of the MASF Pre-Operational Acceptance Testing (MPAT), which is the term being used to describe cold commissioning. DOE-RL stated that cold commissioning is expected to start around January 2016.

DOE-RL stated that work is expected to start within two months at T Plant to clean out the cells that will be used to store sludge. DOE-RL noted that work is needed on the K Basins Record of Decision (ROD) to better define the storage of sludge at T Plant. DOE-RL stated that T Plant is an onsite facility or location, and efforts are under way to determine whether to do a ROD amendment or an Explanation of Significant Difference (ESD). EPA stated that it will be recommending an ESD, and indicated that there are no alternatives, although it may be sending it out for public comment since it is a significant effort. DOE-RL responded that as soon as agreement is reached, it will start pressing forward on the process. DOE-RL expressed appreciation to EPA and Ecology for helping to clarify the regulatory path forward for sludge storage at T Plant, and noted that there was an exchange of letters regarding the subject.

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

DOE-RL reported that comments were received from Ecology on April 29, 2015, regarding the 2015 Lifecycle report. DOE-RL noted that one of Ecology's comments was that DOE-RL met the Lifecycle report milestone. DOE-RL stated that there is still disagreement regarding Ecology's request to include an alternatives analysis for the cesium/strontium capsule storage in the Lifecycle report. DOE-RL stated that a letter has been submitted to Ecology regarding the disagreement. A discussion on the request for an alternatives analysis on the cesium/strontium capsules is scheduled today during the Inter-Agency Management Integration Team (IAMIT) meeting.

PFP Closure Project - TPA Milestone M-083

Milestone Summary - DOE-RL reported that the major milestone, M-083-00A, is still at risk, and that DOE-RL is working closely with Ecology and EPA to better define the completion criteria for the milestone. DOE-RL stated that the target milestone M-083-24-TO1 is still on schedule, and that the surveillance and maintenance plan is being reviewed for the opportunity to possibly take out the slab at 236-Z and also at 242-Z. DOE-RL reported that a letter has been drafted stating that M-083-44 has been met. DOE-RL stated that the letter is being reviewed by the contractor, and the draft will be shared with Ecology before submitting the final milestone completion letter. DOE-RL added that it is holding off submitting the letter so that as much of the work that has been done can be included in the letter. DOE-RL noted that includes glovebox HC-9B, a few high holdup gloveboxes, the WT-1 glovebox, and demolition of the 243-Z facility. DOE-RL stated that size-reduction of glovebox HC-9B has been completed, with the exception of the final waste box that will be sent to the Central Waste Complex (CWC). DOE-RL added that all of the pencil tank units have been size-reduced and sent to CWC.

Accomplishments 3rd Quarter 2015 - DOE-RL stated that the information in today's summary report is for the third quarter that ended in June 2015, and it will be discussing that work and the work that has been done to date. DOE-RL noted that the second "fresh-air" job refers to the suits that the workers wear during in-situ size reduction of HC-9B. DOE-RL stated that the WT-1 removal has been completed, and that was the last glovebox in 242-Z (McCluskey room). DOE-RL added that the exhaust ventilation, the filter box media, and general area cleanup of high contamination is also being done in the McCluskey room. DOE-RL emphasized that currently there are three high-hazard jobs under way: the remaining high holdup glovebox HA-9A, which will start next week; the canyon entries in the 236-Z, the Plutonium Reclamation Facility (PRF), to clean up the floor pans and the walls; and the filter work.

Project Baseline Performance – DOE-RL stated that per contract, the performance is behind schedule and slightly over budget, but the contract for this fiscal year is under budget and slightly regaining in schedule. DOE-RL noted that there were delays in July and August 2015 due to high heat in the 242-Z work, and the next quarterly report will reflect some negative trends. DOE-RL added that the contractor took appropriate action by slowing or stopping the work until additional cooling and ventilation was installed in the 242-Z facility and the PRF canyon. There were also a series of efforts to upgrade the work packages and the radiological protection of the workers.

Issues/Challenges – Regulatory - DOE-RL stated that the M-083-00A completion criteria are being worked with Ecology and EPA.

Issues/Challenges - Non-Regulatory – DOE-RL reported that the documented safety analysis (DSA) Rev. 12 has been approved by DOE and is in the process of being implemented. DOE-RL added that the DSA implementation will not be declared complete until more of the high hazard work is done. DOE-RL noted that it will be the first time, in nuclear safety space, that it will be working under a demo DSA and not an operations DSA.

DOE-RL stated that the 243-Z facility was successfully taken down in August 2015. DOE-RL noted that 243-Z was the low-level waste water treatment facility, and the condensate for the steam-driven turbines and a few other sources were rerouted.

DOE-RL noted that the challenges associated with the high holdup gloveboxes HC-9B and HA-9A were discussed, and that HC-9B has been size-reduced. DOE-RL reported that preparations were initiated several months ago for a contractor-led and approved demolition readiness assessment, level 2. DOE-RL will be providing oversight of the demolition readiness assessment, and it is tentatively planned to take place in the November/December 2015 time frame.

Planned Activities through December 2015 – DOE-RL noted that glovebox HC-9B has been size-reduced, and all of the other work in 234-5Z (RMA/RMC and backside rooms) is in process. DOE-RL pointed out that 26 of the 38 filter box isolations have been completed to date in the 234-5Z duct level. DOE-RL added that of the 26 filter boxes, four are associated with the DSA; two are complete and the final two are in process. DOE-RL explained that these are the high holdup filter boxes for the exhaust ventilation that came off the gloveboxes, and they represent another high hazard source that will be removed prior to demolition. DOE-RL stated that the 243-Z has been completed, and that there is some work left in 291-Z, which is the main ventilation building, to enable the facility to go criticality incredible. The remaining work in 291-Z includes characterization and removal of one process vacuum line.

DOE-RL stated that the 242-Z (McCluskey room area) is basically complete. DOE-RL noted that the last piece of the E4 exhaust ducting that came off the gloveboxes in the 242-Z facility was removed to the mezzanine yesterday.

DOE-RL reported that the crew is in the process of reactivating the south canyon airlock in 236-Z (PRF), and that will facilitate cleanout of the canyon. DOE-RL noted that 12 of the 15 floor pans in the PRF canyon floor have been completed, and the remaining three will be completed within the next two weeks. DOE-RL pointed out that in the entire complex of 238 gloveboxes, there are only four remaining gloveboxes that are still on the exhaust ventilation of E4. Those four gloveboxes are the gallery gloveboxes in 236-Z, and the goal is to remove them from the exhaust ventilation by the end of this calendar year.

DOE-RL emphasized that the efforts at PFP represent some of the most challenging, high hazard work for the entire Department of Energy. DOE-RL noted that the workers are dealing with enormous airborne contamination. DOE-RL added that if the crew can get through the final high hazard gloveboxes and complete the McCluskey room cleanout in the next couple of months, the hazards decrease and the crew can get into a regular demolition mode.

Demolition Sequence - At this point during the meeting, DOE-RL provided an animation of the demolition sequencing. The demolition sequencing starts with 236-Z (PRF), moves to the 242-Z facility (McCluskey room), then 234-5Z, and finally 291-Z. DOE-RL stated that the infrastructure for the demolition is expected to be installed and ready this calendar year. There will be a maintenance staging area for heavy equipment, two roads to maintain travel control and for hauling the large volume of cans that will go to ERDF, and transuranic (TRU) waste staging areas for some of the components removed during demolition that will be sent to WIPP. Perimeter monitoring will be set up to monitor for beryllium, asbestos, and radiological monitoring. DOE-RL noted that the monitoring area will be NEESHAPs compliant. Each individual worker will have a personal continuous air monitor with alarm capability, and workers inside the radiological boundary will have at least one pair of protective clothing and a power air purifying respirator.

There are some items, mainly gloveboxes that will be removed prior to demolition. There are seven gloveboxes that will be removed during the pre-demolition phase, and six gloveboxes that will be removed whole during demolition. The main reasons for removing the six gloveboxes during demolition are due to their size, the interior alterations that would be needed to remove them, and to maintain the ventilation boundaries. There will be water cannons that will spray downward to minimize airborne radioactivity generation and for dust mitigation. There will also be multiple foggers containing surfactants that will attach to the particulate that is generated and get it to drop out as quickly as possible.

DOE-RL stated that when a glovebox is extracted, either during the pre-demolition phase or during demolition, the boxes are removed one at a time and placed in a staged waste container. The waste containers will not be stored outside, but will be taken to the Permafix Northwest facility in Richland for size-reduction and then placed in a WIPP-compliant package. DOE-RL noted that there are three limits for gram loading that have to be addressed: a 400 gram limit per load for Department of Transportation purposes; a 325 gram limit for WIPP; and a 200 gram limit for the license requirement at Permafix Northwest.

DOE-RL stated that all of the sequencing is being done by a structural engineering firm, and it will show the heavy equipment and crane operators a beam-by-beam dissection of the facility they are working on and where the items are located that require surgical removal. The sequencing is also capable of moving walls into transparencies so that the operator can see what is on the other side.

M-091/M-026 TPA Quarterly Milestone Review

Accomplishments – DOE-RL noted that the Tentative Agreement for the proposed milestones is included in the monthly summary report, and stated that any suggestions or comments on the format would be accepted. DOE-RL stated that as of September 10, 2015, milestone M-091-47A (which is subject to the Tentative Agreement) was met, with 280 cubic meters of TRU mixed waste/mixed low-level waste being treated. DOE-RL added that it would be verifying the 280 cubic meters.

DOE-RL stated that the M-091-03 Project Management Plan (PMP) was submitted to Ecology in June 2015, and comments were received from Ecology in August 2015. DOE-RL has responded to Ecology's comments with a revised PMP and a comment response table. DOE-RL stated that comments were received from Ecology on the M-026-01 annual Land Disposal Restrictions (LDR) report, and a letter was sent to Ecology asking for clarification on the information Ecology was requesting, specifically, as related to the major milestones.

Milestone Status - DOE-RL stated the public comment period for the Tentative Agreement milestones goes through September 25, 2015, and the public comment meeting was held.

Project Baseline Performance – DOE-RL pointed out that the project baseline performance represented contract-to-date, and with the exception of TRU waste repackaging, all of the increases are associated with hotel costs. DOE-RL noted that T Plant information does not include the preparatory work for receipt of sludge.

Actions Planned for Next Six Months – DOE-RL noted that the PMP revision was submitted to Ecology, and that treatment of the 280 cubic meters was met, with the next 280 cubic meters in the process of being treated. DOE-RL added that treatment of the next 280 cubic meters is being done in coordination with PFP to ensure that both projects' needs are met, and the license and other limits are not exceeded at Permafix Northwest. DOE-RL stated that it may be somewhat challenging with all of the waste coming out of PFP next year. Ecology asked if there will be any potential storage issues with all of the waste coming in from PFP and the waste stored at CWC not being shipped offsite. DOE-RL responded that it did not anticipate any storage issues, and that there is enough storage space for quite a while.

Soil and Groundwater Remediation Project Milestone Review - M-015-00, M-016-00, M-024-00, M-037-00

Accomplishments – (3rd Quarter 2015) River Corridor - DOE-RL reported that all of the drilling in the 300 Area for the Stage A injection wells has been completed, and preparations are under way to do the injections in October 2015. DOE-RL noted that the Rev. 0 RDR/RAWP and groundwater addendum for the 300 Area was approved by EPA. DOE-RL noted that the Draft A 300-FF-5 Remedy Implementation Sampling and Analysis Plan was also approved by EPA.

Accomplishments (3rd Quarter 2015) Central Plateau – DOE-RL reported that the 200-UP-1 Draft A performance monitoring plan was approved by EPA in August 2015, and the Rev. 0 version was transmitted to EPA at the beginning of September 2015. DOE-RL stated that operational test procedures (OTP) are under way this week for the 200-UP-1 uranium extraction and treatment system, and the system should start running unattended full time next week. DOE-RL noted that as soon as the truck unloading station is set up, the perched water will be trucked over to the 200-UP-1 extraction and treatment system, and eventually the perched water will be piped over with the 200-BP-5 water, once that starts running full time. DOE-RL stated that all three of the uranium extraction wells have been drilled to depth, and noted that the milestone for the wells was extended from September 2015 to the end of December 2015, due to issues with the ground being drilled. DOE-RL added that two of the three wells are completed, and the third well is in the process of being completed, possibly by the end of this month. DOE-RL stated that shortly after the three wells are completed, they will be piped and started up.

DOE-RL reported that one of the two pipelines going from 200 East Area to 200 West Area has been completed, and the second pipeline is close to being connected. The plan is to conduct the OTP and initiate the first draw-down test of the 200-BP-5 aquifer within the next two weeks.

DOE-RL stated that EPA's comments were received and are being incorporated into the 200-SW-2 and 200-DV-1 documents. DOE-RL noted that the agreement on principles and parameters is still being worked. EPA stated that a meeting needs to be scheduled to discuss the agreement. DOE-RL responded that it is in the process of scheduling a meeting early next week to get the agreement resolved and issue a Rev. 0. Ecology noted that the DV-1 comment resolution is proceeding smoothly, and the parties are waiting on the Central Plateau analytical

results. DOE-RL stated that as soon as the results are obtained, the Rev. 0 will be completed for both DV-1 and SW-2.

Milestone Summary:

DOE-RL updated the milestones as follows:

M-015-112 – DOE-RL stated that this milestone is still in dispute, and the dispute has been extended to December 31, 2015. DOE-RL noted that it has been working closely with Ecology to reach resolution.

M-015-21A – DOE-RL stated that the remedial investigation (RI) was submitted in August 2015, and the feasibility study/proposed plan will be delayed since the RI was just submitted. DOE-RL stated that this milestone is being negotiated.

M-015-92A – DOE-RL stated that this milestone missed the June 2015 submittal date, and it is being negotiated.

M-015-110B – This milestone will be missed and it is being negotiated. DOE-RL noted that focus is on getting the work plan issued.

M-015-38B – DOE-RL noted that the feasibility study report for the proposed plan associated with CW-1/3 and OA-1 is listed as on schedule, but it is under negotiation. DOE-RL will submit the schedule in accordance with the change that was made a year ago, which was to submit the schedule for when the feasibility study report could be done. DOE-RL noted that the tentative agreement, based on the milestones, will complete the commitment to submit the schedule.

M-015-78/79 - DOE-RL stated that the two years of aquifer tube sampling for 100-BC is nearing completion, and work is starting on the RI/FS and proposed plan for 100-BC-1/2/5. These two milestones are on schedule.

M-015-92B – DOE-RL stated that the proposed plan for 200-EA-1 and 200-IS-1 is being negotiated, and the two will probably be split apart.

M-015-93B – DOE-RL reported that this milestone for the RI/FS report and proposed plan for 200-SW-2 will be missed and is under negotiation. DOE-RL stated that efforts are still under way to get the work plan approved.

M-016-125 – DOE-RL stated that the 200-PW-1/3/6 RD/RA work plan is on schedule for submittal to EPA by the end of September 2015. EPA stated that normally DOE-RL submits a schedule with milestones to implement the work, which cannot be done at this point, and reiterated its request to submit a milestone to set the date for cleanup. EPA noted that submittal of a milestone for a schedule will at least meet the intent of the TPA. EPA added that the intent is to not create more transuranic waste that will have to be stored at CWC, and that when the work is done, the TRU waste can be shipped directly to WIPP.

M-016-190 – DOE-RL stated this milestone was moved to December 2015, and it is on schedule.

M-015-110-T05 – DOE-RL reported that a letter is being prepared stating that this target milestone is complete. DOE-RL stated that implementation of the system to meet drinking water standards for uranium at 300-FF-5 (or as specified in the ROD) was initiated by putting the well field in. DOE-RL added that the approved RD/RA work plan identified that the milestone would be completed by putting in the well field.

M-016-191 – DOE-RL stated that this milestone will be completed six months ahead of schedule with the completion this week of the acceptance/OTP for uranium.

M-016-192 – DOE-RL stated that a draft has been prepared for the 200-UP-1 iodine-129 technology evaluation plan, and internal comments are being finalized. DOE-RL noted that the draft has been shared with EPA, which indicated it had no significant comments.

M-016-110-T03 – DOE-RL stated that this milestone is on schedule to take actions for the strontium groundwater plume at 100-NR-2. EPA stated that it will hold DOE-RL to getting the rest of the injections completed by December 2016. DOE-RL responded that taking action to contain strontium is somewhat open to interpretation and that there will be further discussion.

M-016-110-T04 – DOE-RL stated that all of the 100 Area RODs that it has have been implemented, and a discussion is needed to determine how the milestone would be considered complete. DOE-RL noted that this is a target milestone and is not enforceable.

M-024-66-T01 – DOE-RL stated that this milestone was completed in July 2015, and a letter is being prepared for transmittal to Ecology.

M-024-66 – DOE-RL reported that this milestone was completed in June 2015, and a letter is being prepared for transmittal to Ecology.

M-085-02 – DOE-RL stated that submittal of a package with a schedule for the canyon RI/FS work plans will be completed with the tentative agreement on the milestones for canyons.

Project Baseline Performance – DOE-RL stated that a \$44 million variance is projected at completion at the end of 2018.

Planned Activities – June - December 2015:

Central Plateau - DOE-RL stated that the Rev. 0 200-UP-1 performance monitoring plan was issued at the beginning of September 2015. The 200-WA-1 RI/FS work plan will be submitted by the end of September 2015. DOE-RL noted that the Draft A of the 200-CW-5 and PW-1/3/6 RD/RAWP was already discussed, and it will be submitted at the end of September 2015 with a milestone for a schedule. DOE-RL stated that the 200-BP-5 RI and 200-PO-1 RI addendum

were transmitted at the beginning of August 2015. DOE-RL noted that drilling was initiated on the 200-DV-1 characterization in the BY cribs. DOE-RL stated that expansion of the 200-DV-1 perched water removal is ready to be initiated. The three wells are in place, with one well running, and the other two will start running once the truck unloading station is set up and the water can be trucked over to 200 West. DOE-RL noted that only one well is running to avoid increasing the volume at the Effluent Treatment Facility. DOE-RL stated that the pipeline for I-129 is in place, and once the wells are completed the pipeline will be hooked up. DOE-RL stated that the well realignment for the pump and treat optimization plan will be completed at the end of September 2015.

River Corridor – DOE-RL stated that the Rev. 0 100-HR-3 interim RD/RA work plan, the O&M plan and the SAP have been submitted. The Rev. 0 of the 100-FR-3 RD/RA work plan was issued, and the document was signed August 18, 2015. The Rev. 0 300-FF-5 remedy implementation SAP has been completed, and the letter is in progress to transmit the approved SAP. DOE-RL stated that the 300-FF-5 uranium sequestration injections should be initiated in October 2015. DOE-RL reported that one of the high contamination boreholes at 100-K has been completed and a water sample was taken. The other well has been drilled to depth, and should be completed by the end of September 2015. The well casings and the pad at the top are being completed. DOE-RL stated that the well drilling and realignment per the optimization plan is basically completed and is being finalized.

RL Key Documents List – DOE-RL provided an updated document list, and it was noted that most of the actions associated with the documents were discussed during today's meeting.

DISTRIBUTION AND ATTENDEES:

| | | |
|--------------------|---------|-------|
| D. A. Faulk* | EPA | A3-46 |
| J. Hedges* | Ecology | H0-57 |
| D. Singleton* | Ecology | H0-57 |
| J. Price* | Ecology | H0-57 |
| C. Whalen* | Ecology | H0-57 |
| S. Schleif* | Ecology | H0-57 |
| R.Skinnarland* | Ecology | H0-57 |
| M.Brown* | Ecology | H0-57 |
| T.Rogers* | WDOH | |
| R.J. Corey* | DOE-RL | A5-11 |
| T.K. Teynor* | DOE-RL | A6-38 |
| O.A. Farabee* | DOE-RL | A6-38 |
| R.A. Quintero* | DOE-RL | A6-38 |
| M.S. Collins* | DOE-RL | A6-38 |
| M.W. Cline* | DOE-RL | A5-11 |
| S.L. Korenkiewicz* | DOE-RL | A7-27 |
| B.W. Vannah* | DOE-RL | A5-11 |
| J.P. Neath* | DOE-RL | A3-04 |
| D. H. Butler | MSA | A3-01 |
| J. M. Colborn | MSA | A3-01 |
| J. L. Copeland | MSA | A3-10 |
| C. P. Noonan | MSA | A3-01 |
| R. E. Piippo* | MSA | A3-01 |
| M. J. Turner* | MSA | A3-01 |
| J. Borghese* | CHPRC | H8-43 |
| T. Bratvold* | CHPRC | T5-60 |
| J.E. Blackburn* | WCH | H4-14 |
| T.Q. Howell* | WCH | H4-23 |
| S. Cimon* | ODOE | |

ADMINISTRATIVE RECORD – Heather Childers: H6-08

*Attendees

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

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Accomplishments

3rd Quarter 2015

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 9/30/18 *On Schedule*)

Construction

- Annex Construction continued progress completing tie-in and flush of the 100K Facility Fire Loop, installed the backflow preventer for Annex Fire System, completed concrete placement for the doghouse enclosure, installation of process hoses in the HIH chase.



Installation of the 2" shielding plate over the process hoses in the HIH chase



Installation of the Annex exhaust duct

Accomplishments

3rd Quarter 2015

Sludge Treatment Project (*continued*)

Equipment Procurement/Fabrication

- 15 procurement packages have been fully developed and are in the formal acquisition process.
- Completed final factory testing for first-article STSC vessel.
- ECRTS Test Mockup, fabricated Sludge Transport and Storage Container (STSC) fit-up tool.



First Article STSC

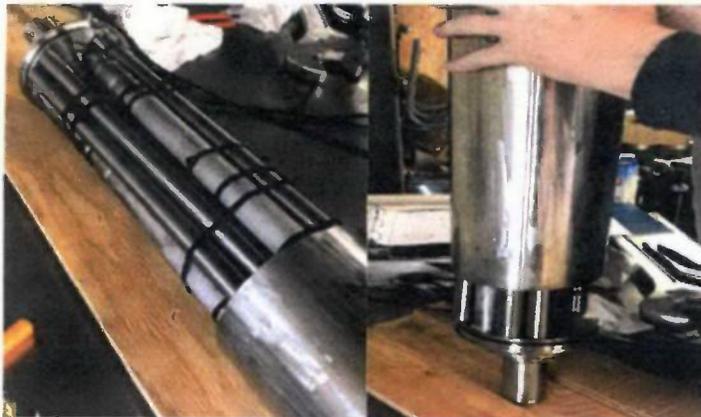
Accomplishments

3rd Quarter 2015

Sludge Treatment Project (*continued*)

Cold Commissioning

- Continued preparations for cold commissioning at the Maintenance and Storage Facility (MASF) and operator training and familiarization with ECRTS components.
- ECRTS STSC/Cask Venting Demonstration, completed assembly of the ECRTS nitrogen purge system and vent tubing.



XAGO Retrieval Tool



Ventilation Process System Manifold

Accomplishments

3rd Quarter 2015

- 100KE Characterization Wells
 - Continued drilling through native material collecting soil samples continuously to a depth of approximately 102 feet, initiated well construction, and received preliminary lab results through the contamination zone on the 116-KE-3 site.
 - Completed Hazard Review Board for drilling and sampling operations on the UPR-100-K-1 site.



100 K East Reactor Borehole

Accomplishments

3rd Quarter 2015

- Initiated preliminary planning for authorized accelerations
 - Prepared draft statement of work for Area AB waste remediation
 - Initiated hiring for insulators in support of 165KE Asbestos Abatement
- 100K Minimum Safe Activities
 - Maintained 100K Area Minimum Safe Configuration
 - Performed radiological and waste surveillances

Milestone Summary

| TPA Number | Due Date | Description | Status |
|------------|------------|--|-------------|
| 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-093-28 | 12/31/2019 | Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage | On Schedule |
| M-016-173 | 9/30/2022 | Select K Basin Sludge Treat. & Pkging Technology propose new MS's | On Schedule |
| M-016-181 | 9/30/2023 | Complete Deactivation, Demolition & Removal of 105-KW FSB | On Schedule |
| M-016-186 | 12/31/2023 | Initiate Soil Remediation Under 105-KW Fuel Storage Basin | On Schedule |
| M-016-00C | 9/30/2024 | Complete All Response Actions In The 100K Area | On Schedule |
| M-016-143 | 9/30/2024 | Complete The Inerim Response Actions For The 100K Area Phase 2 | On Schedule |
| M-093-27 | 9/30/2024 | Complete 105-KE & 105-KW Reactor ISS in Accordance with Removal Action Work Plan | On Schedule |

Project Baseline Performance

(Contract to date through June 2015)

| 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 | 492.1 | 494.5 | 504.5 | 2.4 | -10.0 | 696.2 | 711.4 | -15.2 | 1.00 | 0.98 |

| 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 |
|---|--|--|--|------------------------------|--------------------------|----------------------------------|------------------------------------|------------------------------------|-----|------|
| Total | 134.6 | 134.2 | 105.1 | (0.5) | 29.0 | 218.3 | 192.7 | 31.1 | 1.0 | 1.28 |

Numbers are rounded to the nearest \$0.1M

Planned Activities

July 2015 – December 2015

Sludge Treatment Project

Construction

- Complete Annex Facility construction
- Initiate Engineered Container Re-Lidding scope of work (In-Basin).

Equipment Procurement/Fabrication

- Continue ECRTS process equipment fabrication
- Update remaining calculations and other general process documentation for the safety-related Auxiliary Ventilation System Design.
- Preparing to support MASF Pre-Operational Testing (MPAT).

T-Plant

- Award fabrication contract for the in-cell racks.
- Initiate cell clean out activities in canyon
- Initiate process for K Basins ROD amendment or ESD

Planned Activities

July 2015 – December 2015

100K Min Safe

- Perform radioactive material area (RMA) maintenance (postings, barriers, etc.)
- Perform Waste Information Data Systems (WIDS) surveillances at 100K

100K D4

- 100K Characterization Wells
 - Complete construction of the drilling enclosure and ventilation system at UPR-100-K-1
 - Complete drilling and soil sampling at 116-KE-3
 - Complete well construction at 116-KE-3 and UPR-100-K-1
 - Complete characterization of UPR-100-K-1 and 116-KE-3 Waste Sites

100K Waste Sites

- Initiate Area AB waste site remediation; award subcontract and perform remediation services
- Initiate 165-KE asbestos abatement

PFP Closure Project

TPA Milestone Series: M-083



U.S. Department of Energy
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State of Washington, Department of Ecology

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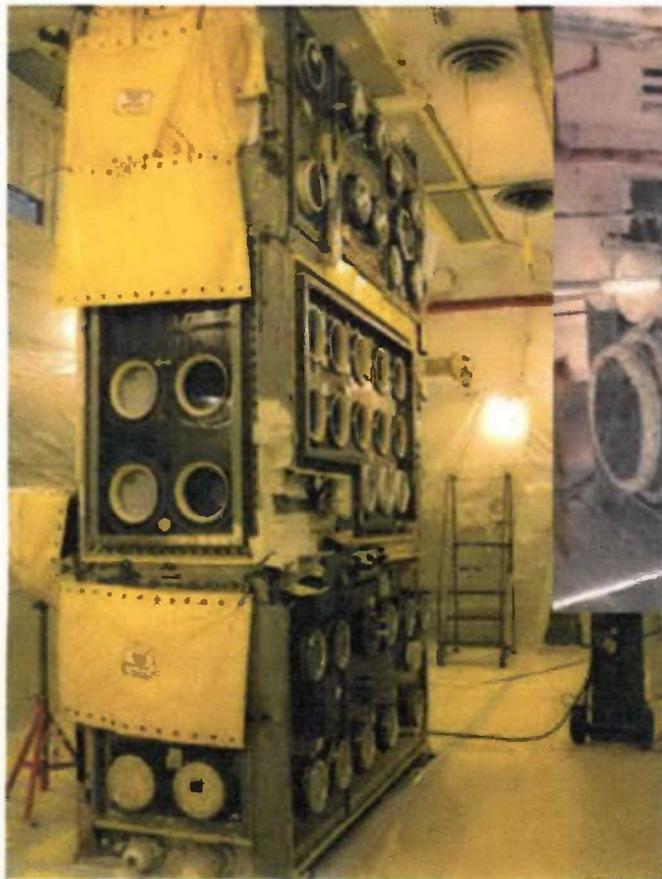
Milestone Summary

| Milestone/ Target Date | Due Date | Status | Description |
|---------------------------|-----------|-------------|--|
| M-083-00A | 9/30/2016 | At Risk | 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 | On Schedule | Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology. |
| M-083-44 | 9/30/2015 | On Schedule | Complete significant progress on deactivation and removal of 208 glove boxes and disposal of all 236-Z pencil tanks in preparation for demolition. |

Accomplishments 3rd Quarter 2015

- Began a second “fresh-air” job – in situ size reduction of HC-9B
- Continued 242-Z (McCluskey Room) progress
 - Passed mid-way point on WT-1 removal
- Approval of Documented Safety Analysis, Rev. 12
- Completed Pencil Tank campaign in 236-Z (PRF)
- Began bulk area cleanout of PRF Canyon floor
- Completed PRF Column glove box separations

Accomplishments 3rd Quarter 2015



HC-9B glove box



Employees begin size reducing HC-9B glove box



Employees removing Face of WT-1 in 242-Z.

Project Baseline Performance

Contract to Date (Through June 2015)

| 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 | \$825,597 | \$793,505 | \$814,293 | (\$32,091) | -3.8% | (\$20,788) | -2.6% | \$952,967 | \$957,017 | (\$4,051) |

Fiscal Year to Date (Through June 2015)

| 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 | \$93,741 | \$94,316 | \$77,418 | \$575 | 0.6% | \$16,898 | 17.9% |

Issues/Challenges

Regulatory *(heads up)*

- *Discuss M-083-00A completion criteria*

Non-Regulatory

- *Implementation of DSA, revision 12.*
- *Readying 243-Z for demolition*
- *Preparing for manned entries into PRF Canyon for floor decontamination*
- *Size reduction of HC-9B and HA-9A – most hazardous glove boxes in the facility*
- *Demolition Readiness Assessment preparations*

Planned Activities Through December 2015

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

- Complete In situ Size Reduction of HC-9B and HC-9A glove boxes
- Remove ventilation, process piping and ducting from first floor
- Characterize trenches and tunnels

234-5Z (Duct Level)

- Continue E4 duct removal in 234-5Z duct level
- Remove E4 ducting and Process Vacuum piping throughout 234-5Z
- Complete Filter Box isolations
- Continue asbestos abatement
- Continue draining of chemical lines throughout 234-5Z

243-Z

- Re-route 243-Z effluent, electrically and mechanically isolate facility, grout drain lines, and demolish

291-Z

- Initiate sump characterization
- Complete 26" process vacuum line removal to enable facility classification as criticality incredible

242-Z (Americium Facility)

- Complete WT-1 Glove box size reduction
- "Gap and cap" tank-room tanks
- Remove E4 ducting and hazardous materials; initiate bulk area cleanout
- Prepare facility for demolition

Planned Activities Through December 2015

236-Z (PRF)

- Reactivate South Canyon Airlock (SCA)
- Complete canyon floor cleanout
- Complete canyon floor and wall characterization
- Grout canyon floor
- Potentially decontaminate/spall canyon walls if deemed necessary based on characterization results
- Complete draining chemical lines
- Remove process piping, isolate filter boxes, and remove E4 ducting
- Prepare Column and MT glove boxes for extraction during demolition
- Complete facility characterization
- Complete “cold and dark” planning
- Prepare facility for demolition

TPA Milestone

- Complete M-083-44: Complete significant progress on removal of gloveboxes and disposal of 236-Z pencil tanks

PFP Timeline – Updated Forecast

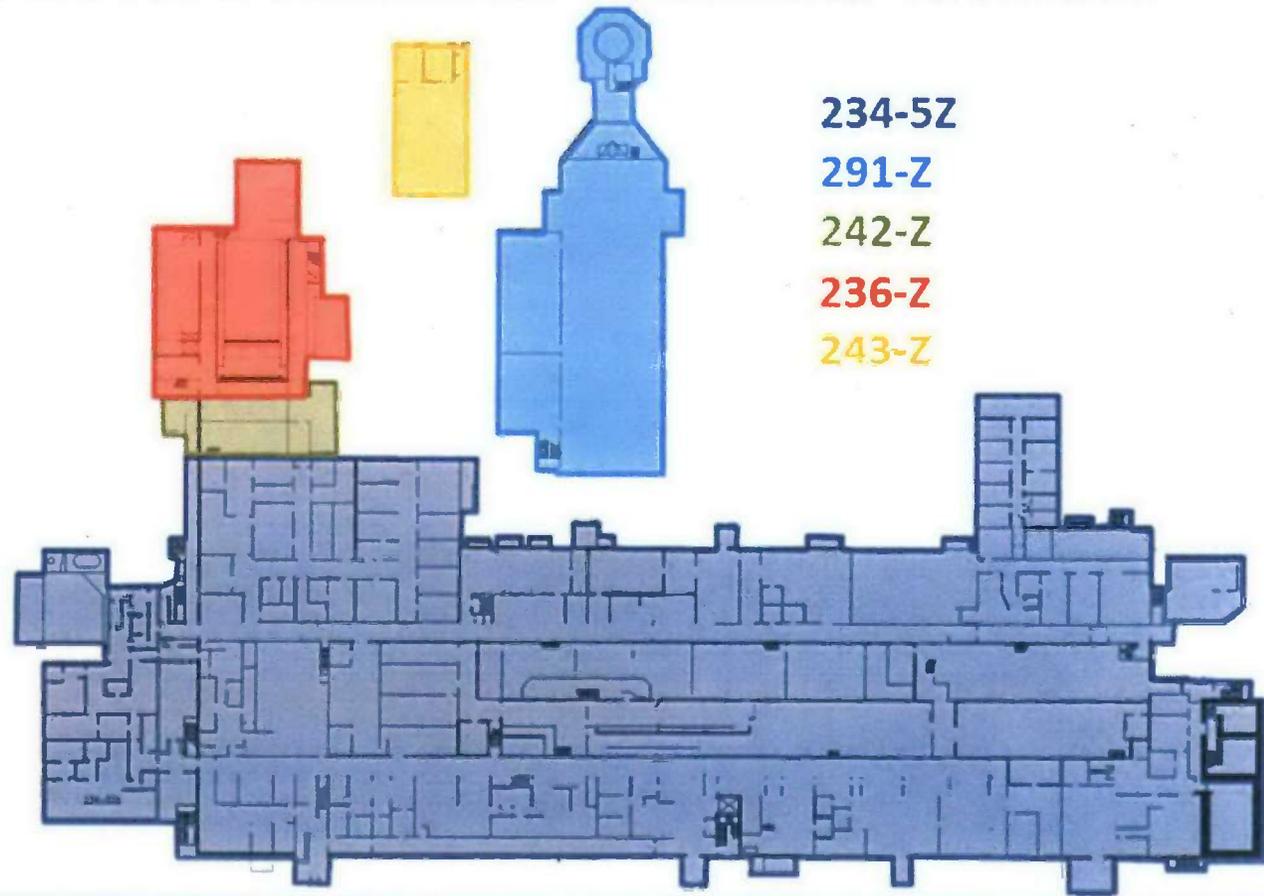
- August 2015: 243-Z demolished
- Spring/Summer 2016: Demolition of nuclear facilities begins for:

236-Z

242-Z

234-5Z

291-Z



234-5Z

291-Z

242-Z

236-Z

243-Z

Soil and Groundwater Remediation Project Milestone Review

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

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

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Accomplishments

3rd Quarter 2015

River Corridor

- 100-HR-3/100-KR-4:
 - Demolished the calcium polysulfide test skid, two transfer buildings, and electrocoagulation unit.
 - Completed 100-KR-4 well re-alignment activities for the P&T Optimization activities.
 - Completed 100-HR-3 drilling campaign for the P&T Optimization activities.
- 100-BC-5:
 - Initiated review of the Draft Rev 2 Groundwater Sampling and Analysis Plan (SAP)
- 100-NR-2:
 - Completed two TSD summary reports supporting closure of 100-N liquid RCRA disposal facilities.
 - Completed Draft A Sampling and Analysis Plan for Groundwater and Barrier Performance Monitoring.
- 300 Area:
 - Initiated drilling campaign of the Stage A injection wells.
 - Completed Rev. 0 RDR/RAWP and Groundwater Addendum.
 - Submitted Draft A 300-FF-5 OU Remedy Implementation SAP to EPA (submittal completed M-016-110-T05).



Setup of high risk borehole at K-East.

Accomplishments

3rd Quarter 2015

Central Plateau

- 200-UP-1:
 - Transmitted the Draft A Performance Monitoring Plan to EPA for review.
 - Completed installation of all major components of the uranium extraction and treatment system (e.g., wells, pipelines, treatment train, inlet tank, pumps and filters).
 - Initiated installation of the I-129 hydraulic containment system, including well drilling.
- 200-BP-5:
 - Completed construction of 20,000 ft (out of 48,000 ft) of the pipeline to the 200W P&T Facility.
 - Transmitted the Draft A 200-BP-5 EE/CA to regulators for review.
 - Issued the Rev 2 Treatability Test Plan.
 - Transmitted the Draft A 200 West Pump-and-Treat Operations and Maintenance Plan, Revision 4, to EPA for review. This revision incorporates the 200-BP-5 treatability test.



All major uranium treatment equipment has been installed in the radiological building at the 200 West Pump and Treat and final mechanical and electrical/instrumentation hookups are underway.

Accomplishments

3rd Quarter 2015

Central Plateau (continued)

- 200-SW-2:
 - Received Ecology's comments on the Draft B RI/FS work plan.
- 200-DV-1:
 - Transmitted the Draft A 200-DV-1 RAWP and SAP to Ecology for review.
 - Received Ecology's comments on the Draft A RI/FS work plan.
- Closure Plans:
 - Submitted final Closure Plan for the 207-A South Retention Basin.



Demolition of 1601-H Transfer Building

Milestone Summary

| TPA Number | Milestone or Target Date | Description | Status |
|------------------|--------------------------|---|--------------------|
| M-015-00* | 12/31/16 | Complete The RI/FS (Or RFI/CMS and RI/FS) process for all non-tank farm operable units except for canyon/associated past practice waste site OUs covered in M-85-00. | At Risk |
| M-015-112 | 2/28/14 | Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates | Dispute Resolution |
| M-015-21A | 6/30/15 | Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology | To Be Missed |
| M-015-92A | 6/30/15 | Submit RCRA FI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology | To Be Missed |
| M-015-110B | 9/30/15 | Submit CMS & FS & Proposed Plan/CA Decision for 200-DV-1 OU | To Be Missed |
| M-015-38B | 10/30/15 | Submit Rev'd FS Report & Rev'd PP for CW-1, CW-3 & OA-1 to EPA (submit schedule only) | On Schedule |
| M-015-91B | 12/31/15 | Submit FS Report & Proposed Plan for the 200-BC-1/200 -WA-1 OU | To Be Missed |
| M-015-78 | 2/28/16 | Complete 2 Yrs of GW and Aquifer Tube Sampling at 100-BC Expanded Monitoring Network | On Schedule |
| M-015-79 | 12/15/16 | Submit CERCLA Remedial Investigation/Feasibility Study Report & Proposed Plan for 100-BC-1/2/5 | On Schedule |
| M-015-92B | 12/31/16 | Submit CMS & FS Reports & Proposed CA Decision/PP for 200-EA-1 & 200-IS-1 | At Risk |
| M-015-93B | 12/31/16 | Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2 | At Risk |
| M-016-00* | 9/30/24 | Complete remedial actions for all non-tank farm & non-canyon OUs | At Risk |
| M-016-125 | 9/30/15 | Submit RD/RA Work Plan to EPA for 200-CW-5 & 200-PW-1/3/6 per ROD | On Schedule |
| M-016-190 | 12/29/15 | Complete Installation of Wells for U-Plant Area Pump & Treat Per 200-UP-1 RD/RA WP | On Schedule |
| M-016-110-T05 | 12/31/15 | Implement Sys To Meet Drinking Water Stds. For U at 300-FF-5 OU (or as specified in ROD) | On Schedule |
| M-016-191 | 3/30/16 | Complete Acceptance/Operation Test Procedures and Initiate Operations of U Plant Area Pump & Treat | On Schedule |
| M-016-192 | 6/17/16 | Submit the I-129 Technology Evaluation Plan Draft A per 200-UP-1 RD/RA WP | On Schedule |
| M-016-110-T03 | 12/31/16 | Take Actions To Contain Sr-90 GW Plume at 100-NR-2 OU | On Schedule |
| M-016-110-T04 | 12/31/16 | Implement Remedial Actions in All 100A RODS For GW Ous | On Schedule |

Milestone Summary

| TPA Number | Milestone or Target Date | Description | Status |
|------------------|--------------------------|---|----------------------------|
| M-024-000 | TBD | Complete Well Installations with RCRA/CERCLA Requirements | In Program Planning |
| M-024-66-T01 | 8/1/15 | Conclude Discussions of Well Commitments | Complete |
| M-024-66 | 12/31/15 | Complete Construction of All Wells Listed for CY 2015 and Before as Identified in M-24-12-01 | On Schedule |
| M-024-58I | 6/1/16 | Initiate Discussions of Well Commitments | On Schedule |
| M-024-67-T01 | 8/1/16 | Conclude Discussions of Well Commitments | On Schedule |
| M-024-67 | 12/31/16 | Complete Construction of All Wells Listed for CY 2016 and Before as Identified in M-24-13-01 | On Schedule |
| M-024-68-T01 | 8/1/17 | Conclude Discussions of Well Commitments initiated under M-024-58 | On Schedule |
| M-024-68 | 12/31/17 | Complete Construction of All Wells Listed for CY 2017 and Before as Identified in M-024-14-01 | On Schedule |
| M-024-69-T01 | 8/1/18 | 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-085-02 | 9/30/15 | Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for 200-CB-1, 200-CP-2, and 200-CR-1 OUs and a schedule for submittal of the RAWPs for 224B and 224T Plutonium Concentration Facilities | On Schedule |

* Milestones Within this Series are in Negotiation

Project Baseline Performance

Through June 2015

| 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 | 1,112.5 | 1,107.2 | 1,089.1 | (5.3) | -0.5% | 18.2 | 1.6% | 1,546.5 | 1,501.8 | 44.7 |

Numbers are rounded to the nearest \$0.1 million.

Planned Activities

June – December 2015

- Central Plateau

- Issue Rev. 0 200-SW-2 RI/FS work plan
- Issue Rev. 0 200-DV-1 RI/FS work plan
- Issue Rev. 0 200-UP-1 Performance Monitoring Plan
- Transmit Draft B 200-BC-1/200-WA-1 RI/FS work plan
- Transmit Draft A 200-CW-5 & PW-1/3/6 RD/RAWP
- Transmit Draft A 200-BP-5 RI and 200-PO-1 RI Addendum
- Initiate 200-DV-1 characterization in the BY Cribs
- Initiate expansion of the 200-DV-1 perched water removal
- Complete construction and OTP of 200-UP-1 uranium extraction system
- Complete construction of the 200-BP-5 pipeline and initiate treatability test
- Complete construction of the pipeline for the I-129 hydraulic containment system
- Complete well drilling and realignment for the FY2015 P&T optimization scope

- River Corridor

- Issue Rev. 0 100-HR-3 Interim RD/RA work plan, O&M Plan, and SAP
- Issue Rev. 0 100-FR-3 RD/RA work plan
- Issue Rev. 0 300-FF-5 Remedy Implementation SAP
- Initiate 300-FF-5 uranium sequestration injections
- Complete drilling and sampling of high contamination boreholes at 100-K (RL-41 funded)
- Complete well drilling and realignment for the FY2015 P&T optimization scope

Central Plateau Remediation Project RL-40

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

U.S. Department of Energy
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State of Washington, Department of Ecology

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Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities

- Completed Plutonium Uranium Extraction Plant (PUREX) annual surveillance
- Performed 200W tri-annual and annual waste site surveillances
- Completed surveillance of inactive Waste Information Data System (WIDS) sites
- Completed Presumed Asbestos-Containing Material (PACM) WIDS sites surveillance
- Completed B Plant surveillance fieldwork
- Completed monthly preventive maintenance activities and radiological facility surveillances
- Completed WIDS site housekeeping (weed spraying and hot tumbleweed removal)

Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities

- Completed B Plant annual high-efficiency particle absorber (HEPA) filter flow test and pre-filter change-out
- Completed PUREX Tank 30 asbestos cleanup



B Plant pre-filter change out preparations

Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities (cont.)

Nuclear Safety

- Revised Plutonium Finishing Plant (PFP) 241-Z-361 Tank Documented Safety Analysis (DSA) and Technical Safety Requirement (TSR) and initiated internal review in preparation for transfer from PFP
- Completed 216-Z-9 Hazards Analysis draft and initiated internal review in preparation for transfer from PFP
- Completed B Plant DSA internal review and incorporating review comments
- Incorporating review comments for Fast Flux Test Facility (FFTF) DSA/TSR
- Dispositioning review comments for PUREX DSA/TSR

Accomplishments

3rd Quarter 2015

Additional Work

207A South Retention Basin Closure

- Submitted 30-day pre-notice of Tri-Party Agreement (TPA) modification request
- Submitted the formal Permit Modification Request, Closure Plan, State Environmental Policy Act (SEPA) Checklist, and Temporary Authorization Request to RL
- Completed ground scans of 207A South Retention Basin
- Completed development of the Environmental Restoration Disposal Facility (ERDF) queue



207A South Retention Basin

Milestone Summary

| Milestone | Due Date | Title | Status |
|--|-----------|---|-------------|
| M-016-00* Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs | | | |
| M-016-200A | 9/30/2017 | Complete U Plant canyon (221 U Facility) demolition in accordance with the Remedial Design/Remedial Action Work Plan. | At Risk |
| M-016-200B | 9/30/2021 | Complete U Plant (221 U Facility) barrier construction in accordance with the Remedial Design/Remedial Action Work Plan. | At Risk |
| M-037* TSD Closure Activities | | | |
| M-037-10 | 9/30/2020 | Complete Unit-Specific Closure Requirements According To The Closure Plan(s) For seven (7) TSD Units: 207-A South Retention Basin, 216-A- 29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-B- 63 Trench, Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72). | On Schedule |
| M-037-11 | 9/30/2016 | Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch. | At Risk |
| M-085-00* Complete Response Actions for Specified Canyon Fac. & Waste Sites | | | |
| M-085-01 | 9/30/2022 | Submit a Change Package to Establish Date for Major Milestone M-085-00. | On Schedule |

* Milestones within this Series in Negotiation

Project Baseline Performance

| 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 | 112.3 | 111.9 | 99.8 | -0.4 | 12.1 | 176.4 | 162.8 | 13.6 | 1.0 | 1.12 |

Numbers are rounded to the nearest \$0.1M

Planned Activities

July – December 2015

- Complete assessments – Deferred maintenance, Independent Radiological Programs, Radioactive Material Area (RMA) Assessment, Conduct of Operations Assessment, and Nuclear Safety Assessment
- Complete REDOX 60% preliminary roof design
- Complete PUREX exhaust fan vortex damper repair
- Continue surveillance of inactive WIDS sites
- Perform REDOX and Annual Surveillances
- Procure RAD detection vehicles for radiological area remedial action (RARA)
- Initiate demolition for 207A South Retention Basin
- Initiate planning for electrical equipment maintenance



Aerial view of REDOX

Planned Activities

July – December 2015 (Continued)

- Complete planning for REDOX Pu nitrate bag removal
- Initiate regulatory document development for excess facilities
- Develop a schedule for DSA and FHA updates/modifications
- Complete PUREX and B Plant NESHAPS inspections

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 East Inner Area/Pipelines | RFI/CMS & RI/FS Work Plan - Draft B | M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS-1 OU to Ecology Dispute Resolution | 2/28/2014 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | DOE and Ecology agreed, on September 9, 2015, to extend dispute resolution at the project manager level to December 31, 2015. Issues preventing the dispute from being resolved are associated with the waste site identification and TSD designations. RI and Ecology have not agreed upon the 200-IS-1 OU waste site list and TSD status (anticipate an additional 230 waste sites for 200-IS-1 via TPA C-13-01 and C-14-02). Met with Ecology on June 4, 2015. Agreed on method for TSD designations. Conducted 'tank talk' meeting on August 3; completed review on 11 of the 25 tanks. RI and Ecology are continuing the Work Plan preparation workshops as part of the RI/FS WP development. Milestone in Negotiation. |
| 2 | Central Plateau Source Inner Area | 200-EA-1 200 East Inner Area/Pipelines | RFI/CMS & RI/FS Work Plan | M-015-92A: Submit a RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study work plan for the 200-EA-1 operable unit to Ecology To Be Missed | 6/30/2015 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | Project not funded in FY14 and FY15. Milestone in Negotiation. |
| 3 | Central Plateau Source Inner Area | 200-EA-1 200 East Inner Area/Pipelines | TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 RO), 216-A-29 Ditch (DOE/RL-2006-53 RI), 216-A-34B Crb (DOE/RL-2005-90 RO), 216-B-37-1 Crb (DOE/RL-2005-88 RO), and 216-B-43 Trench (DOE/RL-2006-11 RI) | M-037-02: Submit Revised Closure Plan to support TSD closure for five (5) TSD Units Complete | MS Completed 6/23/14 | 6/24/2014, 12/9/2014 | J. Artel | P. Baynes | Nina Menard | Ecology | Formal Ecology comments not received. Ecology provided Informal comments on 207-A Closure Plan. 207-A Closure Plan Rev. 1 was submitted to Ecology June 22, 2015. Remaining closure plans have RCRA/CERCLA integration issues. |
| 4 | Central Plateau Source Inner Area | 200-EA-1 and 200-IS-1 200 East Inner Area/Pipelines | CMS & FS Report(s) & PCAD(s)/PP(s) | M-015-92B: Submit Corrective Measures Study & Feasibility Study Report(s) and Proposed Corrective Action Decision(s)/Proposed Plan(s) for the 200-EA-1 and 200-IS-1 OUs to Ecology At Risk | 12/31/2016 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | Milestone will be missed: 200-IS-1 Work Plan is in progress with the delivery date still under negotiation and the 200-EA-1 Work Plan is not funded in FY14 and FY15. Milestone in Negotiation. |
| 5 | Central Plateau Source Inner Area | 200-IS-1 | TSD - Closure Plan for the Hexone Storage and Treatment Facility TSD Unit | M-037-01: Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-S-141/142) TSD Unit. Complete | MS Completed 7/16/2010 | | D. Hildebrand | P. Baynes | Nina Menard | Ecology | Comments received. Project not funded to address comments. |
| 6 | Central Plateau Source Inner Area | 200-WA-1 and 200-BC-1 200 West Inner Area | RI/FS Work Plan | M-015-91A: Submit a Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA Complete | MS Completed 12/27/2011 | 10/1/2015 11/16/2015 | J. Sands | M. Byrnes | Craig Cameron | EPA | Draft B WA-1 RI/FS Work Plan is planned to be submitted to EPA by September 30, 2015. |
| 7 | Central Plateau Source Inner Area | 200-WA-1 and 200-BC-1 200 West Inner Area | FS/PP | M-015-91B: Submit Feasibility Study report and Proposed Plan for the 200-BC-1/200-WA-1 operable unit to EPA To Be Missed | 12/31/2015 | TBD | J. Sands | M. Byrnes | Craig Cameron | EPA | Milestone will be missed due to funding and delays in the completion of the 200-WA-1 RI/FS Work Plan. Milestone in Negotiation. |
| 8 | 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: Submit 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 On Schedule | MS Completed 3/25/2015 | 4/1/2015 5/26/2015 | D. Hildebrand | B. Day | Deborah Singleton | Ecology | Milestone description stated deliverable will include a schedule of completion dates for major tasks and deliverables. This is included in the Work Plan Chapter 6 - Project Schedule. Received Ecology comments May 26, 2015. The transmittal states "In general, Ecology's review team thinks the work plan is a good document and the planned work is well outlined." There are 75 comments in the package that were discussed and resolved during the comment resolution meeting held June 17, 2015. RI requested a 90 day extension (22 October 15) due to the integration with the Principles and Parameters negotiations. |
| 9 | Central Plateau Source Inner Area | 200-SW-2 200 West Inner Area & 200 East Inner Area | RFI/CMS & RI/FS & PCAD/PP | M-015-09B: Submit RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study Report and Proposed Corrective Action Decision/Proposed Plan for the 200-SW-2 OU to Ecology At Risk | 12/31/2016 | TBD | D. Hildebrand | B. Day | Deborah Singleton | | Milestone will be missed due to delays in completion of the 200-SW-2 RI/FS Work Plan. Milestone in Negotiation. |

Note: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status. Blue text reflects changes from previous month.

(Information current as of 9/9/2015)

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 |
|----|---|--|---|---|----------------------------------|-----------------------|-------------|-----------------|-----------------|---------|---|
| 10 | Central Plateau Source Inner Area | 200-PW-1/3/6, CW-5 200 West and 200 East | RD/RAWP | M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200 CW-5 and 200-PW-1/3/6 to EPA as described in section 12.4 of the associated ROD. On Schedule | 9/30/2015 | 10/1/2015 11/16/2015 | B. Long | P. Byrnes | Emy Lajo | EPA | Document is on schedule to send to EPA by September 30, 2015. |
| 11 | Central Plateau Source Deep Vadose Zone | 200-DV-1 Deep Vadose Zone | RI/FIS Work Plan | M-015-110A: Submit RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FIS) 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 vadose zone contaminants. On Schedule | MS Completed 3/18/2015 | 4/1/2015 6/24/2015 | J. Morse | M. Byrnes | Dib Gorwami | Ecology | July 30, 2015 letter from RL to Ecology (15-AMRP-0269) requested the date for issuing the final RI/FIS WP be extended to November 15, 2015. |
| 12 | Central Plateau Source Deep Vadose Zone | 200-DV-1 Deep Vadose Zone | CMS/FIS and PP/PCAD | M-015-110B: Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology To Be Missed | 9/30/2015 | TBD | J. Morse | M. Byrnes | Dib Gorwami | Ecology | Milestone will be missed. This milestone cannot be completed until the RI/FIS & RFI/CMS work plan is approved and the field characterization completed. Milestone In Negotiation. |
| 13 | Central Plateau Source Outer Area | 200-CW-1, 200-CW-3, and 200-OA-1 Outer Area | Central Plateau Outer Area RI/FIS work plan/SAP | None | | TBD | B. Vannah | B. Day | L. Buelow | EPA | Outer Area RI/FIS work plan/SAP is not funded in FY15. This work precedes the RI/FIS report (M-015-388). |
| 14 | Central Plateau Source Outer Area | Outer Area | FS/PP | M-015-388: Submit a revised Feasibility Study Report and revised Proposed Plan(s) for the 200-CW-1, 200-CW-3, and 200-OA-1 Operable Units for Waste Sites in the Outer Area of the Central Plateau to EPA | TBD | 11/1/2015 12/15/2015 | B. Vannah | B. Day | L. Buelow | EPA | Approved Change Form M-15-14-01 identified that a schedule will be provided by 10/30/2015 for completion of this milestone. Milestone In Negotiation. |
| 15 | Central Plateau Source Outer Area | 200-CW-1, 200-CW-3, and 200-OA-1 Outer Area | TSDs - Closure Plan for 216-8-3 Main Pond and 216-5-10 Pond and Ditch | M-037-03: Submit Revised Closure Plans Complete | Milestone Completed 4/18/2013 | 4/19/2013 7/17/2013 | J. Sands | P. Byrnes | Nina 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. |
| 16 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-BP-5 RI Report | None | | 8/11/2015 9/25/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A 200-BP-5 RI report to the regulators for review on August 11, 2015. |
| 17 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-PO-1 RI Report Addendum | None | | 8/11/2015 9/25/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A 200-PO-1 RI report addendum to the regulators for review on August 11, 2015. |
| 18 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-BP-5/200-PO-1 FS/PP | M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology To Be Missed | 8/30/2015 | TBD | J. Morse | Curt Wittreich | Nina Menard | Ecology | FS/PP was not funded in FY14. Work initiated in FY15 with an expected Draft A delivery to Ecology by 9/30/16. Milestone In Negotiation. |
| 19 | Central Plateau Groundwater | 200-BP-5 200 East Area Groundwater | 200-BP-5 EE/CA | None | | 8/11/2015 9/3/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A EE/CA report addendum to the regulators for review on June 11, 2015. Ecology comments received. |
| 20 | Central Plateau Groundwater | 200-UP-1 200 West Area Groundwater | 200-UP-1 Remedy Performance Monitoring Plan | None | | 6/22/2015 7/23/2015 | N. Jaszchke | Curt Wittreich | E. Lajo | EPA | Complete. Rev. 0 Approved by RL and EPA on August 13, 2015. |
| 21 | Central Plateau Groundwater | 200-UP-1 200 West Area Groundwater | Technology Evaluation Plan | M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the 200-UP-1 RD/RA WP On Schedule | 6/17/2016 | 6/18/2016 8/1/2016 | N. Jaszchke | PNNL | E. Lajo | EPA | On schedule. |
| 22 | River Corridor | 100-BC-1, 100-BC-2, 100-BC-5 100-B/C | RI/FIS Reports and Proposed Plan | M-015-79: Submit RI/FIS Report and PP for 100-BC On Schedule | 12/15/2016 | 12/16/2016 01/30/2017 | G. Sinton | R. Evans | L. Buelow | EPA | On schedule. |
| 23 | River Corridor | 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H | RI/FIS Reports and Proposed Plan | M-015-70-T01: Submit FIS & PP for HR 1/2/3 and DR 1/2 Complete | Target Completed 12/14/2012 | | J. Hanson | Mike Drewett | Nina Menard | Ecology | The Rev 0 RI/FIS is complete. The PP has gone through Ecology legal review. Comments received Aug 5, 2015. Ready for Ecology to submit to EPA. |
| 24 | River Corridor | 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, 100-IU-6 100-F/U | Remedial Design / Remedial Action Work Plans | None | | 3/30/2015 4/15/2015 | G. Sinton | R. Evans | C. Guzzetti | EPA | RDR/RAWP approved in August 2015 |
| 25 | River Corridor | 100-KR-1, 100-KR-2, 100-KR-4 100-K | RI/FIS Reports and Proposed Plan | M-015-66-T01: Submit RI/FIS Report and PP for 100-KL Complete | Target Completed 9/21/2011 | | J. Hanson | Mike Drewett | C. Guzzetti | EPA | RI/FIS and PP, Rev 0, are on hold pending characterization. The characterization boreholes at 100-KE Reactor waste sites expected to be complete September 2015. Work initiated to revise RI/FIS. |
| 26 | River Corridor | 100-NR-1, 100-NR-2 100-N | RI/FIS Reports and Proposed Plan | M-015-75: Submit FIS/PP for NR 1/2 Complete | Milestone Completed 6/24/2013 | 6/25/2013 10/2/2013 | G. Sinton | Biff Fought | A. Boyd | Ecology | Ecology is not reviewing the PP until RI/FIS comment resolution is complete. Disposition meetings with ECY are ongoing. Comment resolution extended to September 30, 2015. |

Note: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status.
Blue text reflects changes from previous month.

(Information current as of 9/9/2015)

River Corridor/Central Plateau Milestone Review
September 17, 2015
AGENDA

Chairperson: T. Fletcher

| Time | Milestones | Subject | DOE Presenter |
|-------------|--------------------------|--|-------------------------------|
| 9:40 a.m. | M-16 and 85 | Central Plateau Remediation | Al Farabee |
| 8:35 a.m. | M-16, 89, 93 and 94 | River Corridor Closure | Mark French (John Neath, for) |
| 8:50 a.m. | M-16 and 93 | 100 K Remediation | Roger Quintero |
| 9:05 a.m. | M-36 | Life Cycle Report | Stephen Korenkiewicz |
| 9:10 a.m. | M-83 | PFP Transition | Tom Teynor |
| 9:30 a.m. | M-26 | Land Disposal Restrictions Report | Mike Collins |
| 9:35 a.m. | M-91 | Acquisition of Facilities to TSD TRU/TRUM and LLMW | Mike Collins |
| 9:45 a.m. | M-15, 16, 24, 37 and 85 | Soil and Groundwater Remediation | Mike Cline |
| 8:30 a. m. | | RL Key Documents List | Ray Corey |
| 10:05 a.m. | Adjourn Milestone Review | | |

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 East Inner Area/Pipelines | RFI/CMS & RI/FS Work Plan - Draft B | M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS-1 OU to Ecology Dispute Resolution | 2/28/2014 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | DOE and Ecology agreed, on September 9, 2015, to extend dispute resolution at the project manager level to December 31, 2015. Issues preventing the dispute from being resolved are associated with the waste site identification and TSD designations. RL and Ecology have not agreed upon the 200-IS-1 OU waste sites list and TSD status (anticipate an additional 230 waste sites for 200-IS-1 via TPA C-13-01 and C-14-02). Met with Ecology on June 4, 2015. Agreed on method for TSD designations. Conducted 'tank talk' meeting on August 3; completed review on 11 of the 25 tanks. RL and Ecology are continuing the Work Plan preparation workshops as part of the RI/FS WP development. Milestone in Negotiation. |
| 2 | Central Plateau Source Inner Area | 200-EA-1 200 East Inner Area/Pipelines | RFI/CMS & RI/FS Work Plan | M-015-92A: Submit a RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study work plan for the 200-EA-1 operable unit to Ecology To Be Missed | 6/30/2015 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | Project not funded in FY14 and FY15; Milestone in Negotiation. |
| 3 | Central Plateau Source Inner Area | 200-EA-1 200 East Inner Area/Pipelines | TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 R0), 216-A-29 Ditch (DOE/RL-2008-53 R1), 216-A-368 Crib (DOE/RL-2005-90 R0), 216-A-37-1 Crib (DOE/RL-2005-88 R0), and 216-B-63 Trench (DOE/RL-2006-11 R1) | M-037-02: Submit Revised Closure Plan to support TSD closure for five (5) TSD Units Complete | MS Completed 6/23/14 | 6/24/2014 12/9/2014 | J. Axtel | P. Baynes | Nina Menard | Ecology | Formal Ecology comments not received. Ecology provided informal comments on 207-A Closure Plan. 207-A Closure Plan Rev. 1 was submitted to Ecology June 22, 2015. Remaining closure plans have RCRA/CERCLA integration issues. |
| 4 | Central Plateau Source Inner Area | 200-EA-1 and 200-IS-1 200 East Inner Area/Pipelines | CMS & FS Report(s) & PCAD(s)/PP(s) | M-015-92B: Submit Corrective Measures Study & Feasibility Study Report(s) and Proposed Corrective Action Decision(s)/Proposed Plan(s) for the 200-EA-1 and 200-IS-1 OUs to Ecology At Risk | 12/31/2016 | TBD | D. Hildebrand | B. Day | Nina Menard | Ecology | Milestone will be missed: 200-IS-1 Work Plan is in progress with the delivery date still under negotiation and the 200-EA-1 Work Plan is not funded in FY14 and FY15. Milestone in Negotiation. |
| 5 | Central Plateau Source Inner Area | 200-IS-1 | TSD - Closure Plan for the Hexone Storage and Treatment Facility TSD Unit | M-037-01: Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-S-141/142) TSD Unit. Complete | MS Completed 7/16/2010 | | D. Hildebrand | P. Baynes | Nina Menard | Ecology | Comments received. Project not funded to address comments. |
| 6 | Central Plateau Source Inner Area | 200-WA-1 and 200-BC-1 200 West Inner Area | RI/FS Work Plan | M-015-91A: Submit a Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA Complete | MS Completed 12/27/2011 | 10/1/2015 11/16/2015 | J. Sands | M. Byrnes | Craig Cameron | EPA | Draft B WA-1 RI/FS Work Plan is planned to be submitted to EPA by September 30, 2015. |
| 7 | Central Plateau Source Inner Area | 200-WA-1 and 200-BC-1 200 West Inner Area | FS/PP | M-015-91B: Submit Feasibility Study report and Proposed Plan for the 200-BC-1/200-WA-1 operable unit to EPA To Be Missed | 12/31/2015 | TBD | J. Sands | M. Byrnes | Craig Cameron | EPA | Milestone will be missed due to funding and delays in the completion of the 200-WA-1 RI/FS Work Plan. Milestone in Negotiation. |
| 8 | 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: Submit 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 On Schedule | MS Completed 3/25/2015 | 4/1/2015 5/26/2015 | D. Hildebrand | B. Day | Deborah Singleton | Ecology | Milestone description stated deliverable will include a schedule of completion dates for major tasks and deliverables. This is included in the Work Plan Chapter 6 - Project Schedule. Received Ecology comments May 26, 2015. The transmittal states 'In general, Ecology's review team thinks the work plan is a good document and the planned work is well outlined.' There are 75 comments in the package that were discussed and resolved during the comment resolution meeting held June 17, 2015. RL requested a 90 day extension (22 October 15) due to the integration with the Principles and Parameters negotiations. |
| 9 | Central Plateau Source Inner Area | 200-SW-2 200 West inner Area & 200 East Inner Area | RFI/CMS & RI/FS & PCAD/PP | M-015-93B: Submit RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study Report and Proposed Corrective Action Decision/Proposed Plan for the 200-SW-2 OU to Ecology At Risk | 12/31/2016 | TBD | D. Hildebrand | B. Day | Deborah Singleton | | Milestone will be missed due to delays in completion of the 200-SW-2 RI/FS Work Plan. Milestone in Negotiation. |

Note: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status.
Blue text reflects changes from previous month.

TPA Decision Document List

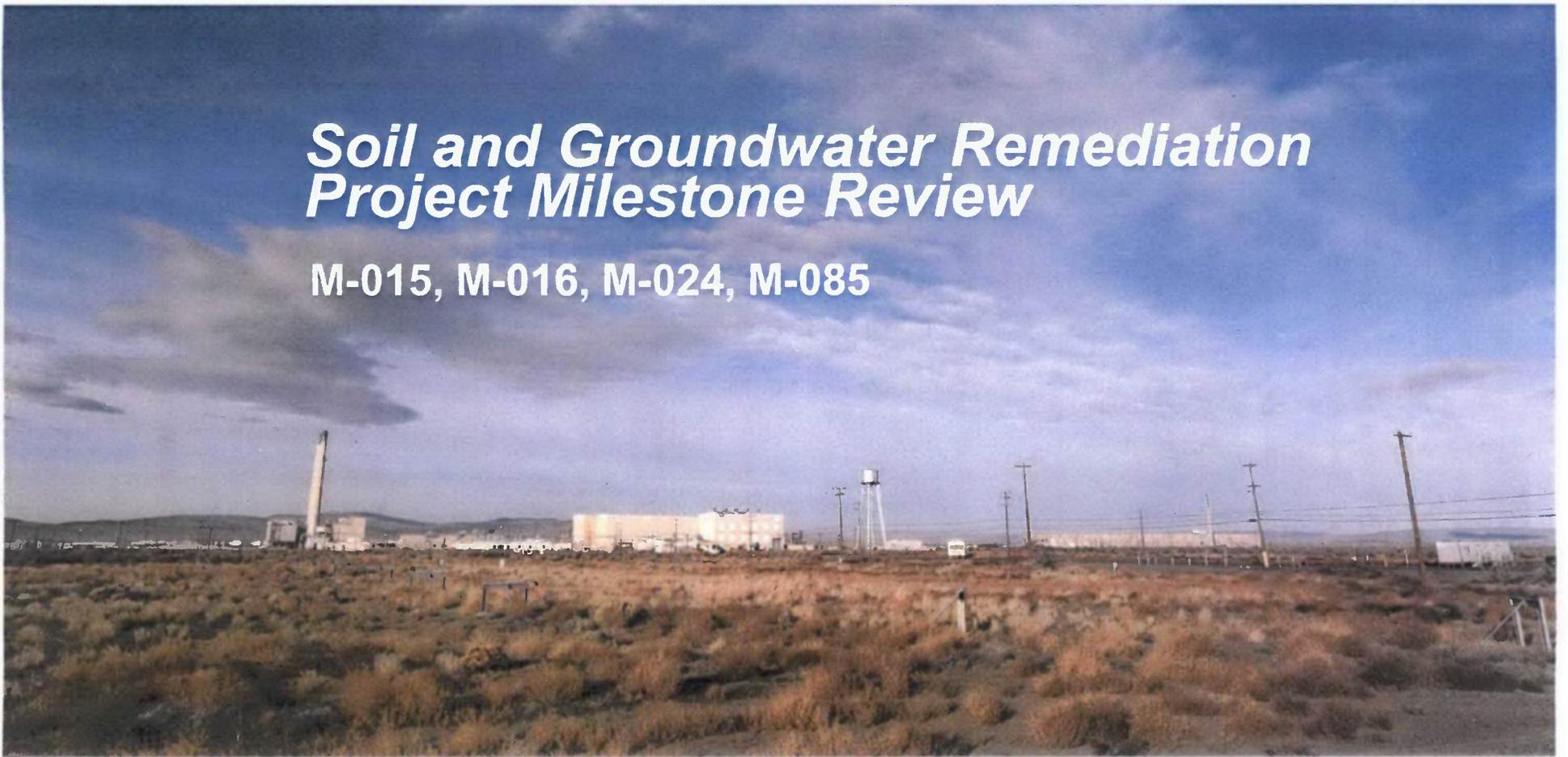
| | Geographical Areas | ROD Area Location | Document | Milestone | Milestone Due Date | Regulatory Review | DOE Lead | Contractor Lead | Regulatory Lead | Agency | Comments/Issues |
|----|---|---|---|--|-------------------------------|-----------------------|-----------|-----------------|-----------------|---------|---|
| 10 | Central Plateau Source Inner Area | 200-PW-1/3/6, CW-5 200 West and 200 East | RD/RAWP | M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200 CW-5 and 200-PW-1/3/6 to EPA as described in section 12.4 of the associated ROD. On Schedule | 9/30/2015 | 10/1/2015 11/16/2015 | B. Long | P. Baynes | Emy Lajja | EPA | Document is on schedule to send to EPA by September 30, 2015. |
| 11 | Central Plateau Source Deep Vadose Zone | 200-DV-1 Deep Vadose Zone | RI/FS Work Plan | M-015-110A: Submit 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 vadose zone contaminants. On Schedule | MS Completed 3/18/2015 | 4/1/2015 6/24/2015 | J. Morse | M. Byrnes | Dib Goswami | Ecology | July 30, 2015 letter from RL to Ecology (15-AMRP-0269) requested the date for issuing the final RI/FS WP be extended to November 15, 2015. |
| 12 | Central Plateau Source Deep Vadose Zone | 200-DV-1 Deep Vadose Zone | CMS/FS and PP/PCAD | M-015-110B: Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology To Be Missed | 9/30/2015 | TBD | J. Morse | M. Byrnes | Dib Goswami | Ecology | Milestone will be missed. This milestone cannot be completed until the RI/FS & RFI/CMS work plan is approved and the field characterization completed. Milestone in Negotiation. |
| 13 | Central Plateau Source Outer Area | 200-CW-1, 200-CW-3, and 200-OA-1 Outer Area | Central Plateau Outer Area RI/FS work plan/SAP | None | | TBD | B. Vannah | B. Day | L. Buelow | EPA | Outer Area RI/FS work plan/SAP is not funded in FY15. This work precedes the RI/FS report (M-015-388). |
| 14 | Central Plateau Source Outer Area | Outer Area | FS/PP | M-015-388: Submit a revised Feasibility Study Report and revised Proposed Plan(s) for the 200-CW-1, 200-CW-3, and 200-OA-1 Operable Units for Waste Sites in the Outer Area of the Central Plateau to EPA | TBD | 11/1/2015 12/15/2015 | B. Vannah | B. Day | L. Buelow | EPA | Approved Change Form M-15-14-01 identified that a schedule will be provided by 10/30/2015 for completion of this milestone. Milestone in Negotiation. |
| 15 | 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: Submit Revised Closure Plans Complete | Milestone Completed 4/18/2013 | 4/19/2013 7/17/2013 | J. Sands | P. Baynes | Nina 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. |
| 16 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-BP-5 RI Report | None | | 8/11/2015 9/25/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A 200-BP-5 RI report to the regulators for review on August 11, 2015 |
| 17 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-PO-1 RI Report Addendum | None | | 8/11/2015 9/25/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A 200-PO-1 RI report addendum to the regulators for review on August 11, 2015 |
| 18 | Central Plateau Groundwater | 200-BP-5, 200-PO-1 200 East Area Groundwater | 200-BP-5/200-PO-1 FS/PP | M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology To Be Missed | 6/30/2015 | TBD | J. Morse | Curt Wittreich | Nina Menard | Ecology | FS/PP was not funded in FY14. Work initiated in FY15 with an expected Draft A delivery to Ecology by 9/30/16. Milestone in Negotiation. |
| 19 | Central Plateau Groundwater | 200-BP-5 200 East Area Groundwater | 200-BP-5 EE/CA | None | | 6/11/2015 9/3/2015 | J. Morse | Curt Wittreich | Nina Menard | Ecology | RL Transmitted the Draft A EE/CA report addendum to the regulators for review on June 11, 2015. Ecology comments received. |
| 20 | Central Plateau Groundwater | 200-UP-1 200 West Area Groundwater | 200-UP-1 Remedy Performance Monitoring Plan | None | | 6/22/2015 7/23/2015 | N. Jachke | Curt Wittreich | E. Lajja | EPA | Complete. Rev. 0 Approved by RL and EPA on August 13, 2015 |
| 21 | Central Plateau Groundwater | 200-UP-1 200 West Area Groundwater | Technology Evaluation Plan | M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the 200-UP-1 RD/RA WP On Schedule | 6/17/2016 | 6/18/2016 8/1/2016 | N. Jachke | PNNL | E. Lajja | EPA | On schedule. |
| 22 | River Corridor | 100-BC-1, 100-BC-2, 100-BC-5 100-B/C | RI/FS Reports and Proposed Plan | M-015-79: Submit RI/FS Report and PP for 100-BC On Schedule | 12/15/2016 | 12/16/2016 01/30/2017 | G. Sinton | R. Evans | L. Buelow | EPA | On schedule. |
| 23 | River Corridor | 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H | RI/FS Reports and Proposed Plan | M-015-70-T01: Submit FS & PP for HR 1/2/3 and DR 1/2 Complete | Target Completed 12/14/2012 | | J. Hanson | Mike Drewett | Nina Menard | Ecology | The Rev 0 RI/FS is complete. The PP has gone through Ecology Legal review. Comments received Aug 5, 2015. Ready for Ecology to submit to EPA. |
| 24 | River Corridor | 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, 100-IU-6 100-F/IU | Remedial Design / Remedial Action Work Plans | None | | 3/30/2015 4/15/2015 | G. Sinton | R. Evans | C. Guzzetti | EPA | RDR/RAWP approved in August 2015. |
| 25 | River Corridor | 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 | | J. Hanson | Mike Drewett | C. Guzzetti | EPA | RI/FS and PP, Rev 0, are on hold pending characterization. The characterization boreholes at 100-KE Reactor waste sites expected to be complete September 2015. Work initiated to revise RI/FS. |
| 26 | River Corridor | 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 | G. Sinton | Bill Faught | A. Boyd | Ecology | Ecology is not reviewing the PP until RI/FS comment resolution is complete. Disposition meetings with ECY are ongoing. Comment resolution extended to September 30, 2015. |

Note: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status.
Blue text reflects changes from previous month.

(Information current as of 9/9/2015)

Soil and Groundwater Remediation Project Milestone Review

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



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

Third Quarter FY 2015
September 17, 2015



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U.S. DEPARTMENT OF
ENERGY

Accomplishments

3rd Quarter 2015

River Corridor

- 100-HR-3/100-KR-4:
 - Demolished the calcium polysulfide test skid, two transfer buildings, and electrocoagulation unit.
 - Completed 100-KR-4 well re-alignment activities for the P&T Optimization activities.
 - Completed 100-HR-3 drilling campaign for the P&T Optimization activities.
- 100-BC-5:
 - Initiated review of the Draft Rev 2 Groundwater Sampling and Analysis Plan (SAP)
- 100-NR-2:
 - Completed two TSD summary reports supporting closure of 100-N liquid RCRA disposal facilities.
 - Completed Draft A Sampling and Analysis Plan for Groundwater and Barrier Performance Monitoring.
- 300 Area:
 - Initiated drilling campaign of the Stage A injection wells.
 - Completed Rev. 0 RDR/RAWP and Groundwater Addendum.
 - Submitted Draft A 300-FF-5 OU Remedy Implementation SAP to EPA (submittal completed M-016-110-T05).



Setup of high risk borehole at K-East.

Accomplishments

3rd Quarter 2015

Central Plateau

- 200-UP-1:
 - Transmitted the Draft A Performance Monitoring Plan to EPA for review.
 - Completed installation of all major components of the uranium extraction and treatment system (e.g., wells, pipelines, treatment train, inlet tank, pumps and filters).
 - Initiated installation of the I-129 hydraulic containment system, including well drilling.
- 200-BP-5:
 - Completed construction of 20,000 ft (out of 48,000 ft) of the pipeline to the 200W P&T Facility.
 - Transmitted the Draft A 200-BP-5 EE/CA to regulators for review.
 - Issued the Rev 2 Treatability Test Plan.
 - Transmitted the Draft A 200 West Pump-and-Treat Operations and Maintenance Plan, Revision 4, to EPA for review. This revision incorporates the 200-BP-5 treatability test.



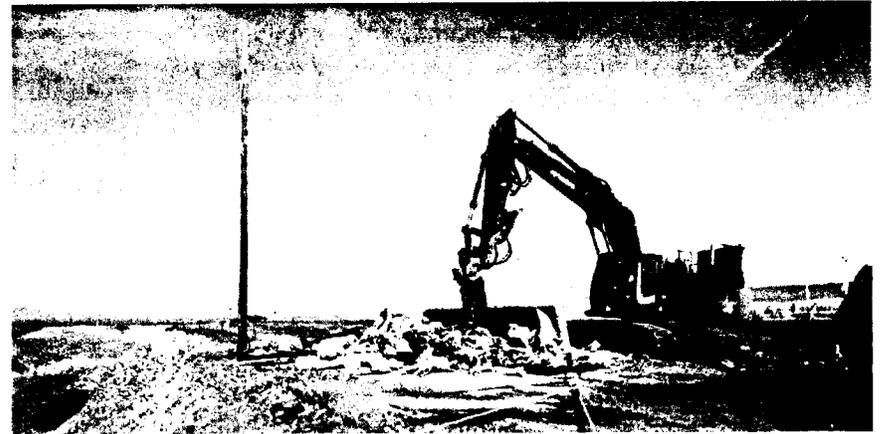
All major uranium treatment equipment has been installed in the radiological building at the 200 West Pump and Treat and final mechanical and electrical/instrumentation hookups are underway.

Accomplishments

3rd Quarter 2015

Central Plateau (continued)

- 200-SW-2:
 - Received Ecology's comments on the Draft B RI/FS work plan.
- 200-DV-1:
 - Transmitted the Draft A 200-DV-1 RAWP and SAP to Ecology for review.
 - Received Ecology's comments on the Draft A RI/FS work plan.
- Closure Plans:
 - Submitted final Closure Plan for the 207-A South Retention Basin.



Demolition of 1601-H Transfer Building

Accomplishments

3rd Quarter 2015

Central Plateau (continued)

- 200-SW-2:
 - Received Ecology's comments on the Draft B RI/FS work plan.
- 200-DV-1:
 - Transmitted the Draft A 200-DV-1 RAWP and SAP to Ecology for review.
 - Received Ecology's comments on the Draft A RI/FS work plan.
- Closure Plans:
 - Submitted final Closure Plan for the 207-A South Retention Basin.



Demolition of 1601-H Transfer Building

Milestone Summary

| TPA Number | Milestone or Target Date | Description | Status |
|------------------|--------------------------|---|--------------------|
| M-015-00* | 12/31/16 | Complete The RI/FS (Or RFI/CMS and RI/FS) process for all non-tank farm operable units except for canyon/associated past practice waste site OUs covered in M-85-00. | At Risk |
| M-015-112 | 2/28/14 | Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates | Dispute Resolution |
| M-015-21A | 6/30/15 | Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology | To Be Missed |
| M-015-92A | 6/30/15 | Submit RCRA FI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology | To Be Missed |
| M-015-110B | 9/30/15 | Submit CMS & FS & Proposed Plan/CA Decision for 200-DV-1 OU | To Be Missed |
| M-015-38B | 10/30/15 | Submit Rev'd FS Report & Rev'd PP for CW-1, CW-3 & OA-1 to EPA (submit schedule only) | On Schedule |
| M-015-91B | 12/31/15 | Submit FS Report & Proposed Plan for the 200-BC-1/200 -WA-1 OU | To Be Missed |
| M-015-78 | 2/28/16 | Complete 2 Yrs of GW and Aquifer Tube Sampling at 100-BC Expanded Monitoring Network | On Schedule |
| M-015-79 | 12/15/16 | Submit CERCLA Remedial Investigation/Feasibility Study Report & Proposed Plan for 100-BC-1/2/5 | On Schedule |
| M-015-92B | 12/31/16 | Submit CMS & FS Reports & Proposed CA Decision/PP for 200-EA-1 & 200-IS-1 | At Risk |
| M-015-93B | 12/31/16 | Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2 | At Risk |
| M-016-00* | 9/30/24 | Complete remedial actions for all non-tank farm & non-canyon OUs | At Risk |
| M-016-125 | 9/30/15 | Submit RD/RA Work Plan to EPA for 200-CW-5 & 200-PW-1/3/6 per ROD | On Schedule |
| M-016-190 | 12/29/15 | Complete Installation of Wells for U-Plant Area Pump & Treat Per 200-UP-1 RD/RA WP | On Schedule |
| M-016-110-T05 | 12/31/15 | Implement Sys To Meet Drinking Water Stds. For U at 300-FF-5 OU (or as specified in ROD) | On Schedule |
| M-016-191 | 3/30/16 | Complete Acceptance/Operation Test Procedures and Initiate Operations of U Plant Area Pump & Treat | On Schedule |
| M-016-192 | 6/17/16 | Submit the I-129 Technology Evaluation Plan Draft A per 200-UP-1 RD/RA WP | On Schedule |
| M-016-110-T03 | 12/31/16 | Take Actions To Contain Sr-90 GW Plume at 100-NR-2 OU | On Schedule |
| M-016-110-T04 | 12/31/16 | Implement Remedial Actions in All 100A RODS For GW Ous | On Schedule |

Milestone Summary

| TPA Number | Milestone or Target Date | Description | Status |
|------------------|--------------------------|---|----------------------------|
| M-024-000 | TBD | Complete Well Installations with RCRA/CERCLA Requirements | In Program Planning |
| M-024-66-T01 | 8/1/15 | Conclude Discussions of Well Commitments | Complete |
| M-024-66 | 12/31/15 | Complete Construction of All Wells Listed for CY 2015 and Before as Identified in M-24-12-01 | On Schedule |
| M-024-58I | 6/1/16 | Initiate Discussions of Well Commitments | On Schedule |
| M-024-67-T01 | 8/1/16 | Conclude Discussions of Well Commitments | On Schedule |
| M-024-67 | 12/31/16 | Complete Construction of All Wells Listed for CY 2016 and Before as Identified in M-24-13-01 | On Schedule |
| M-024-68-T01 | 8/1/17 | Conclude Discussions of Well Commitments initiated under M-024-58 | On Schedule |
| M-024-68 | 12/31/17 | Complete Construction of All Wells Listed for CY 2017 and Before as Identified in M-024-14-01 | On Schedule |
| M-024-69-T01 | 8/1/18 | 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-085-02 | 9/30/15 | Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for 200-CB-1, 200-CP-2, and 200-CR-1 OUs and a schedule for submittal of the RAWPs for 224B and 224T Plutonium Concentration Facilities | On Schedule |

* Milestones Within this Series are in Negotiation

Project Baseline Performance

Through June 2015

| 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 | 1,112.5 | 1,107.2 | 1,089.1 | (5.3) | -0.5% | 18.2 | 1.6% | 1,546.5 | 1,501.8 | 44.7 |

Numbers are rounded to the nearest \$0.1 million.

Planned Activities

June – December 2015

- Central Plateau
 - Issue Rev. 0 200-SW-2 RI/FS work plan
 - Issue Rev. 0 200-DV-1 RI/FS work plan
 - Issue Rev. 0 200-UP-1 Performance Monitoring Plan
 - Transmit Draft B 200-BC-1/200-WA-1 RI/FS work plan
 - Transmit Draft A 200-CW-5 & PW-1/3/6 RD/RAWP
 - Transmit Draft A 200-BP-5 RI and 200-PO-1 RI Addendum
 - Initiate 200-DV-1 characterization in the BY Cribs
 - Initiate expansion of the 200-DV-1 perched water removal
 - Complete construction and OTP of 200-UP-1 uranium extraction system
 - Complete construction of the 200-BP-5 pipeline and initiate treatability test
 - Complete construction of the pipeline for the I-129 hydraulic containment system
 - Complete well drilling and realignment for the FY2015 P&T optimization scope
- River Corridor
 - Issue Rev. 0 100-HR-3 Interim RD/RA work plan, O&M Plan, and SAP
 - Issue Rev. 0 100-FR-3 RD/RA work plan
 - Issue Rev. 0 300-FF-5 Remedy Implementation SAP
 - Initiate 300-FF-5 uranium sequestration injections
 - Complete drilling and sampling of high contamination boreholes at 100-K (RL-41 funded)
 - Complete well drilling and realignment for the FY2015 P&T optimization scope



**Solid Waste Stabilization
and Disposition Project
RL-0013
Milestone Review
M-091/M-026**

September 17, 2015



EM Environmental Management

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Accomplishments

- M-091-03 – Project Management Plan (PMP)
 - CY 2014 PMP submitted 06/16/15 (15-AMRP-0214)
 - Ecology comments received 08/13/15 (15-NWP-156)
- M-026-01 – Land Disposal Restrictions (LDR) Report
 - CY 2014 Report submitted 04/21/15 (15-AMRP-0120)
 - Ecology major issues received 08/13/15 (15-NWP-159)
- Tentative Agreement: M-091-47 – Treat Transuranic Mixed (TRUM) Waste/Mixed Low-Level Waste (MLLW)
 - 351.0 m³ have been shipped offsite for treatment (09/03/15)
 - 254.4 m³ have been returned (09/03/15)



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Milestone Status

- Tentative Agreement (TA) to revise M-091 Milestone Series approved by DOE (06/30/15) and Ecology (07/01/15)
 - Public Comment Period – 07/06/15-09/25/15
 - Existing milestones would be deleted:
 - M-091-01 (Establish Additional Treatment Capabilities)
 - M-091-42/43 (MLLW Treatment)
 - M-091-46 (Certify TRUM Waste)
 - New milestones would be added:
 - M-091-47 (TRUM Waste/MLLW Treatment)
 - M-091-44T (Establish Additional Milestones for TRUM Waste Shipment)
 - M-091-48 (Complete TRUM Waste Shipment)
 - M-091-49 (TRUM Waste Retrieval)
 - M-091-51/52/53 (Alternative Analysis for Additional Capabilities/Establish Milestones for Gaining these Additional Capabilities)



Department of Energy – Richland Operations Office

Project Baseline Performance

Contract to Date through August 2015

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 | 65,977.8 | 64,848.4 | 62,556.2 | -1.7% | 3.5% |
| Waste Receiving and Packaging Facility (WRAP) | 39,452.1 | 39,452.1 | 39,201.4 | 0.0% | 0.6% |
| T Plant | 77,115.1 | 77,080.5 | 61,059 | 0.0% | 20.8% |
| MLLW Treatment | 43,182.5 | 43,182.5 | 37,200.2 | 0.0% | 13.9% |
| TRU Waste Retrieval | 99,991.6 | 99,991.6 | 112,263.1 | 0.0% | -12.3% |
| TRU Waste Repackaging | 63,533.6 | 65,725.5 | 60,817.7 | 3.4% | 7.5% |
| TRU Waste Disposition | 30,934.4 | 30,934.4 | 22,345.0 | 0.0% | 27.8% |
| Project Management | 113,348.6 | 113,345.6 | 99,402.5 | 0.0% | 12.3% |



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Actions Planned for Next Six Months

- Address public comments on the proposed revision to the M-091 Milestone series.
- Submit revised M-091-03 PMP based on Ecology comments
- Complete (TA) M-091-47A Milestone to treat 280 m³ of waste by 09/30/15
- Treat waste towards the (TA) M-091-47B Milestone of 280 m³ by 09/30/16



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PFP Closure Project

TPA Milestone Series: M-083



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

Third Quarter FY 2015
September 17, 2015



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U.S. DEPARTMENT OF
ENERGY

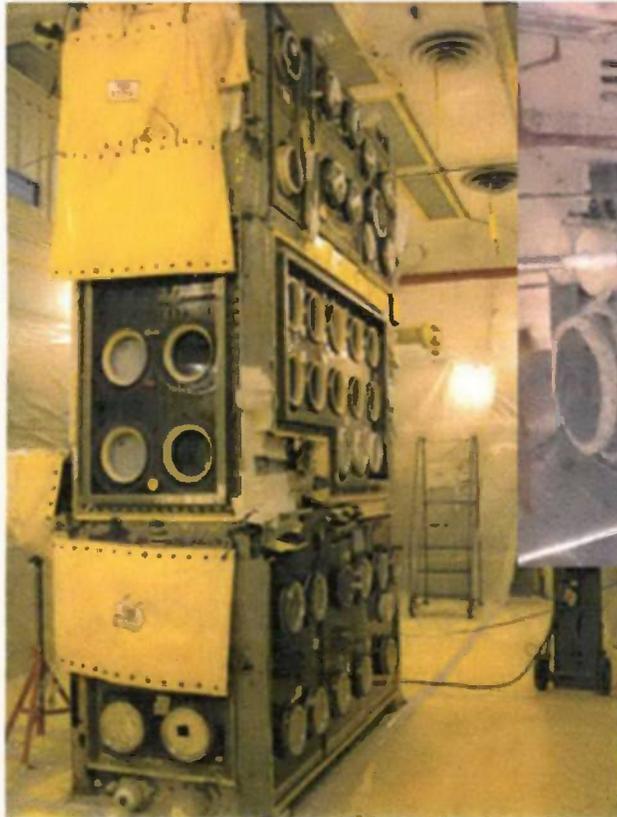
Milestone Summary

| Milestone/ Target Date | Due Date | Status | Description |
|---------------------------|-----------|-------------|--|
| M-083-00A | 9/30/2016 | At Risk | 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 | On Schedule | Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology. |
| M-083-44 | 9/30/2015 | On Schedule | Complete significant progress on deactivation and removal of 208 glove boxes and disposal of all 236-Z pencil tanks in preparation for demolition. |

Accomplishments 3rd Quarter 2015

- Began a second “fresh-air” job – in situ size reduction of HC-9B
- Continued 242-Z (McCluskey Room) progress
 - Passed mid-way point on WT-1 removal
- Approval of Documented Safety Analysis, Rev. 12
- Completed Pencil Tank campaign in 236-Z (PRF)
- Began bulk area cleanout of PRF Canyon floor
- Completed PRF Column glove box separations

Accomplishments 3rd Quarter 2015



HC-9B glove box



Employees begin size reducing HC-9B glove box



Employees removing Face of WT-1 in 242-Z.

Project Baseline Performance

Contract to Date (Through June 2015)

| 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 | \$825,597 | \$793,505 | \$814,293 | (\$32,091) | -3.8% | (\$20,788) | -2.6% | \$952,967 | \$957,017 | (\$4,051) |

Fiscal Year to Date (Through June 2015)

| 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 | \$93,741 | \$94,316 | \$77,418 | \$575 | 0.6% | \$16,898 | 17.9% |

Issues/Challenges

Regulatory *(heads up)*

- *Discuss M-083-00A completion criteria*

Non-Regulatory

- *Implementation of DSA, revision 12.*
- *Readying 243-Z for demolition*
- *Preparing for manned entries into PRF Canyon for floor decontamination*
- *Size reduction of HC-9B and HA-9A – most hazardous glove boxes in the facility*
- *Demolition Readiness Assessment preparations*

Planned Activities Through December 2015

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

- Complete In situ Size Reduction of HC-9B and HC-9A glove boxes
- Remove ventilation, process piping and ducting from first floor
- Characterize trenches and tunnels

234-5Z (Duct Level)

- Continue E4 duct removal in 234-5Z duct level
- Remove E4 ducting and Process Vacuum piping throughout 234-5Z
- Complete Filter Box isolations
- Continue asbestos abatement
- Continue draining of chemical lines throughout 234-5Z

243-Z

- Re-route 243-Z effluent, electrically and mechanically isolate facility, grout drain lines, and demolish

291-Z

- Initiate sump characterization
- Complete 26" process vacuum line removal to enable facility classification as criticality incredible

242-Z (Americium Facility)

- Complete WT-1 Glove box size reduction
- "Gap and cap" tank-room tanks
- Remove E4 ducting and hazardous materials; initiate bulk area cleanout
- Prepare facility for demolition

Planned Activities Through December 2015

236-Z (PRF)

- Reactivate South Canyon Airlock (SCA)
- Complete canyon floor cleanout
- Complete canyon floor and wall characterization
- Grout canyon floor
- Potentially decontaminate/spall canyon walls if deemed necessary based on characterization results
- Complete draining chemical lines
- Remove process piping, isolate filter boxes, and remove E4 ducting
- Prepare Column and MT glove boxes for extraction during demolition
- Complete facility characterization
- Complete "cold and dark" planning
- Prepare facility for demolition

TPA Milestone

- Complete M-083-44: Complete significant progress on removal of gloveboxes and disposal of 236-Z pencil tanks

PFP Timeline – Updated Forecast

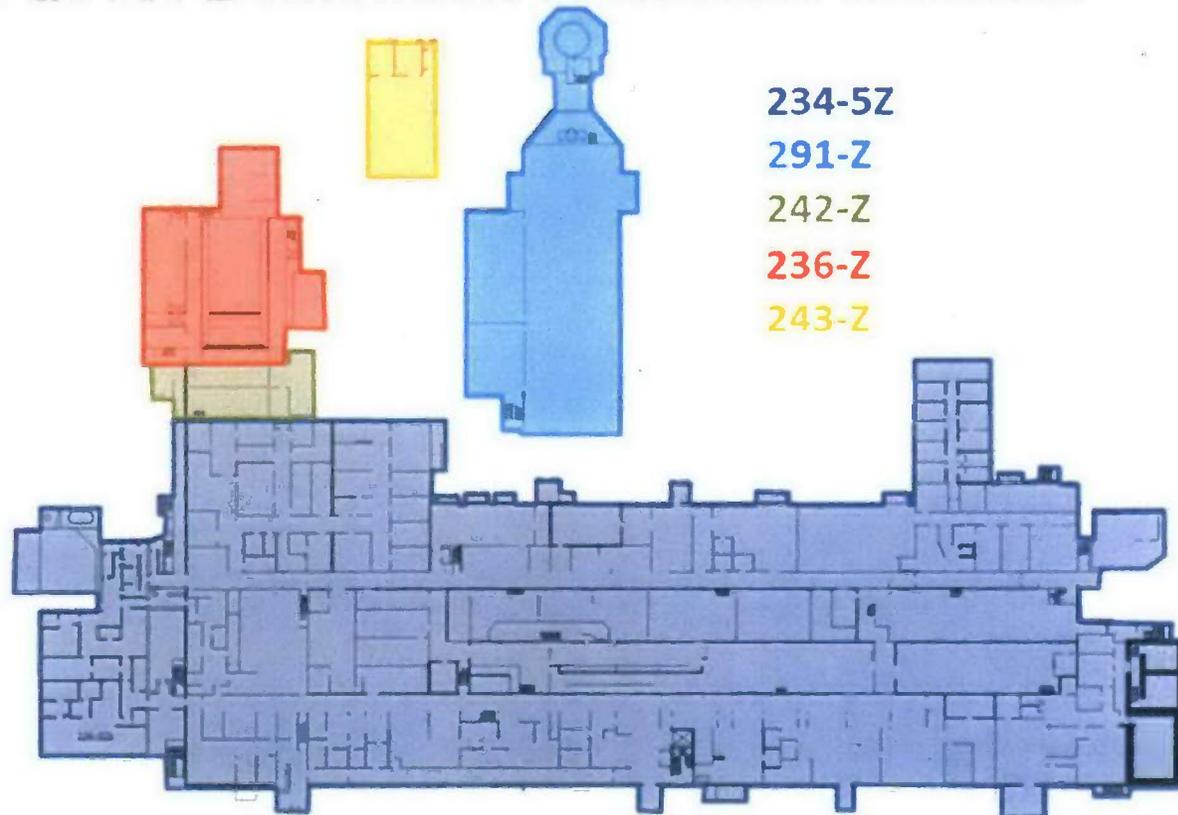
- August 2015: 243-Z demolished
- Spring/Summer 2016: Demolition of nuclear facilities begins for:

236-Z

242-Z

234-5Z

291-Z



234-5Z

291-Z

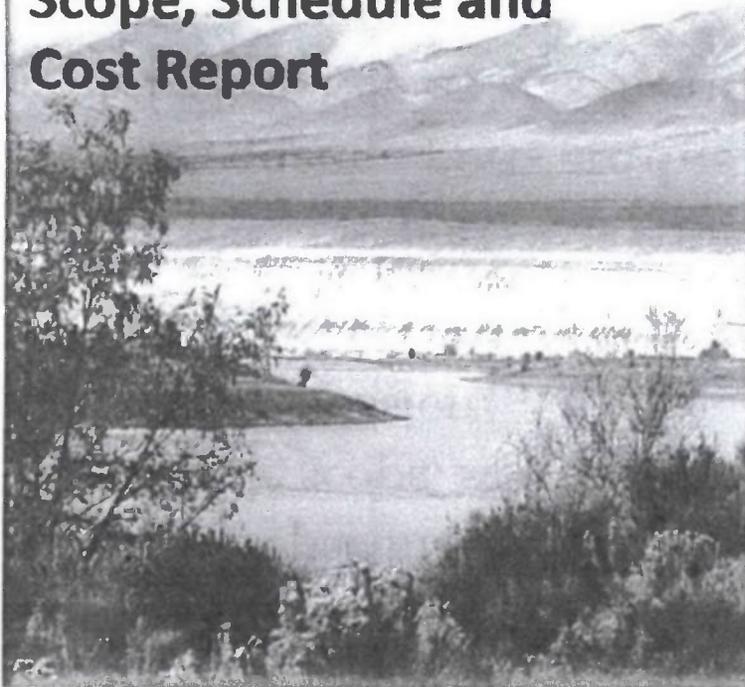
242-Z

236-Z

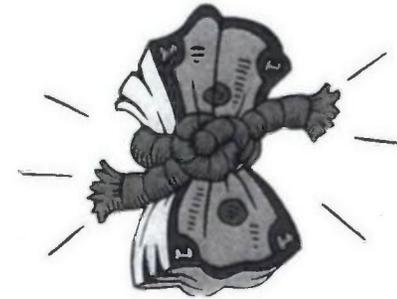
243-Z

2015

**Hanford Lifecycle
Scope, Schedule and
Cost Report**



**Hanford Lifecycle Scope, Schedule
and Cost Report**



TPA Milestone: M-036-01

Quarterly Performance Report

September 17, 2015

Stephen Korenkiewicz, DOE-RL
Lifecycle Report Project Manager



MILESTONE DESCRIPTION AND DELIVERABLE

1. 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.
2. The initial Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) was submitted to DOE on July 25, 2011, and subsequent reports are due January 31 of each year. The 2015 Lifecycle Report was the fifth Lifecycle Report to be prepared.



RL PROGRAM MANAGERS' ASSESSMENT OF CONTRACTOR PERFORMANCE

1. The contractor responsible for the Lifecycle Report is Mission Support Alliance, Portfolio Management.
2. There were no performance issues related to development and preparation of the 2015 Lifecycle Report or the Draft 2016 Lifecycle Report.



SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. Ecology submitted comments on the 2015 Lifecycle Report on April 29, 2015 and stated that the report met the milestone.
2. Project Manager's Meetings were held on June 16, 2015 and September 10, 2015.
3. Ecology requested an alternatives analysis of Cs/Sr capsule storage in the 2016 Lifecycle Report. DOE disagrees with Ecology and opposes such an analysis.
4. After incorporating feedback/changes as agreed, the Draft 2016 Lifecycle Report was submitted to DOE on August 20, 2015.



SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

1. Resolve disagreement about performing an alternatives analysis for Cs/Sr capsule storage options.
2. DOE review of Draft 2016 Lifecycle Report from August 21 to October 31, 2015.
3. Prepare Final 2016 Lifecycle Report for submittal to DOE by December 31, 2015.
4. DOE submittal of Final 2016 Lifecycle Report to EPA and Ecology by January 31, 2016



STATUS AND ISSUES

BUDGET/COST STATUS

No major issues identified.

ISSUES

DOE and Ecology disagreement about performing an alternatives analysis for Cs/Sr capsule storage options in the 2016 Lifecycle Report.

NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

No major issues identified.



Central Plateau Remediation Project RL-40

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



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

Third Quarter FY 2015
September 17, 2015



Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities

- Completed Plutonium Uranium Extraction Plant (PUREX) annual surveillance
- Performed 200W tri-annual and annual waste site surveillances
- Completed surveillance of inactive Waste Information Data System (WIDS) sites
- Completed Presumed Asbestos-Containing Material (PACM) WIDS sites surveillance
- Completed B Plant surveillance fieldwork
- Completed monthly preventive maintenance activities and radiological facility surveillances
- Completed WIDS site housekeeping (weed spraying and hot tumbleweed removal)

Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities

- Completed B Plant annual high-efficiency particle absorber (HEPA) filter flow test and pre-filter change-out
- Completed PUREX Tank 30 asbestos cleanup



B Plant pre-filter change out preparations

Accomplishments

3rd Quarter 2015

Minimum Safe/Maintenance Activities (cont.)

Nuclear Safety

- Revised Plutonium Finishing Plant (PFP) 241-Z-361 Tank Documented Safety Analysis (DSA) and Technical Safety Requirement (TSR) and initiated internal review in preparation for transfer from PFP
- Completed 216-Z-9 Hazards Analysis draft and initiated internal review in preparation for transfer from PFP
- Completed B Plant DSA internal review and incorporating review comments
- Incorporating review comments for Fast Flux Test Facility (FFTF) DSA/TSR
- Dispositioning review comments for PUREX DSA/TSR

Accomplishments

3rd Quarter 2015

Additional Work

207A South Retention Basin Closure

- Submitted 30-day pre-notice of Tri-Party Agreement (TPA) modification request
- Submitted the formal Permit Modification Request, Closure Plan, State Environmental Policy Act (SEPA) Checklist, and Temporary Authorization Request to RL
- Completed ground scans of 207A South Retention Basin
- Completed development of the Environmental Restoration Disposal Facility (ERDF) queue



Milestone Summary

| Milestone | Due Date | Title | Status |
|--|-----------|---|-------------|
| M-016-00* Complete Remedial Actions For All Non-Tank Farm & Non-Canyon OUs | | | |
| M-016-200A | 9/30/2017 | Complete U Plant canyon (221 U Facility) demolition in accordance with the Remedial Design/Remedial Action Work Plan. | At Risk |
| M-016-200B | 9/30/2021 | Complete U Plant (221 U Facility) barrier construction in accordance with the Remedial Design/Remedial Action Work Plan. | At Risk |
| M-037* TSD Closure Activities | | | |
| M-037-10 | 9/30/2020 | Complete Unit-Specific Closure Requirements According To The Closure Plan(s) For seven (7) TSD Units: 207-A South Retention Basin, 216-A- 29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-B- 63 Trench, Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72). | On Schedule |
| M-037-11 | 9/30/2016 | Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch. | At Risk |
| M-085-00* Complete Response Actions for Specified Canyon Fac. & Waste Sites | | | |
| M-085-01 | 9/30/2022 | Submit a Change Package to Establish Date for Major Milestone M-085-00. | On Schedule |

* Milestones within this Series in Negotiation

Project Baseline Performance

| 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 | 112.3 | 111.9 | 99.8 | -0.4 | 12.1 | 176.4 | 162.8 | 13.6 | 1.0 | 1.12 |

Numbers are rounded to the nearest \$0.1M

Planned Activities

July – December 2015

- Complete assessments – Deferred maintenance, Independent Radiological Programs, Radioactive Material Area (RMA) Assessment, Conduct of Operations Assessment, and Nuclear Safety Assessment
- Complete REDOX 60% preliminary roof design
- Complete PUREX exhaust fan vortex damper repair
- Continue surveillance of inactive WIDS sites
- Perform REDOX and Annual Surveillances
- Procure RAD detection vehicles for radiological area remedial action (RARA)
- Initiate demolition for 207A South Retention Basin
- Initiate planning for electrical equipment maintenance



Aerial view of REDOX

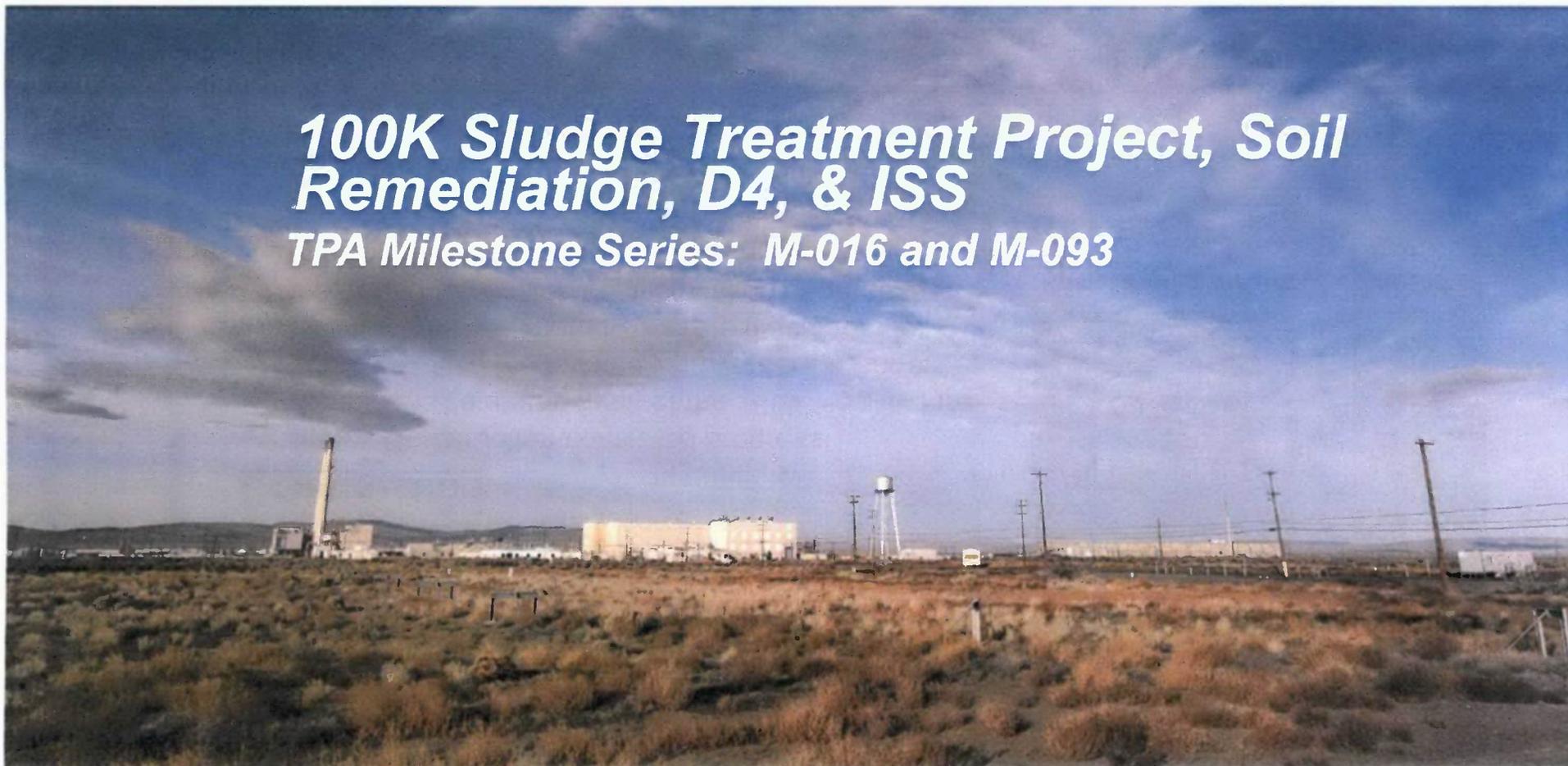
Planned Activities

July – December 2015 (Continued)

- Complete planning for REDOX Pu nitrate bag removal
- Initiate regulatory document development for excess facilities
- Develop a schedule for DSA and FHA updates/modifications
- Complete PUREX and B Plant NESHAPS inspections

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 2015
September 17, 2015



ch2mSM



Accomplishments

3rd Quarter 2015

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 9/30/18 *On Schedule*)

Construction

- Annex Construction continued progress completing tie-in and flush of the 100K Facility Fire Loop, installed the backflow preventer for Annex Fire System, completed concrete placement for the doghouse enclosure, installation of process hoses in the HIH chase.



Installation of the 2" shielding plate over the process hoses in the HIH chase



Installation of the Annex exhaust duct

Accomplishments

3rd Quarter 2015

Sludge Treatment Project (*continued*)

Equipment Procurement/Fabrication

- 15 procurement packages have been fully developed and are in the formal acquisition process.
- Completed final factory testing for first-article STSC vessel.
- ECRTS Test Mockup, fabricated Sludge Transport and Storage Container (STSC) fit-up tool.



First Article STSC

Accomplishments

3rd Quarter 2015

Sludge Treatment Project (*continued*)

Cold Commissioning

- Continued preparations for cold commissioning at the Maintenance and Storage Facility (MASF) and operator training and familiarization with ECRTS components.
- ECRTS STSC/Cask Venting Demonstration, completed assembly of the ECRTS nitrogen purge system and vent tubing.



XAGO Retrieval Tool



Ventilation Process System Manifold

Accomplishments

3rd Quarter 2015

- 100KE Characterization Wells
 - Continued drilling through native material collecting soil samples continuously to a depth of approximately 102 feet, initiated well construction, and received preliminary lab results through the contamination zone on the 116-KE-3 site.
 - Completed Hazard Review Board for drilling and sampling operations on the UPR-100-K-1 site.



100 K East Reactor Borehole

Accomplishments

3rd Quarter 2015

- Initiated preliminary planning for authorized accelerations
 - Prepared draft statement of work for Area AB waste remediation
 - Initiated hiring for insulators in support of 165KE Asbestos Abatement
- 100K Minimum Safe Activities
 - Maintained 100K Area Minimum Safe Configuration
 - Performed radiological and waste surveillances

Milestone Summary

| TPA Number | Due Date | Description | Status |
|------------|------------|--|-------------|
| 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-093-28 | 12/31/2019 | Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage | On Schedule |
| M-016-173 | 9/30/2022 | Select K Basin Sludge Treat. & Pkging Technology propose new MS's | On Schedule |
| M-016-181 | 9/30/2023 | Complete Deactivation, Demolition & Removal of 105-KW FSB | On Schedule |
| M-016-186 | 12/31/2023 | Initiate Soil Remediation Under 105-KW Fuel Storage Basin | On Schedule |
| M-016-00C | 9/30/2024 | Complete All Response Actions In The 100K Area | On Schedule |
| M-016-143 | 9/30/2024 | Complete The Inerim Response Actions For The 100K Area Phase 2 | On Schedule |
| M-093-27 | 9/30/2024 | Complete 105-KE &105-KW Reactor ISS in Accordance with Removal Action Work Plan | On Schedule |

Project Baseline Performance

(Contract to date through June 2015)

| 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 | 492.1 | 494.5 | 504.5 | 2.4 | -10.0 | 696.2 | 711.4 | -15.2 | 1.00 | 0.98 |

| 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 |
|---|--|--|--|------------------------------|--------------------------|----------------------------------|------------------------------------|------------------------------------|-----|------|
| Total | 134.6 | 134.2 | 105.1 | (0.5) | 29.0 | 218.3 | 192.7 | 31.1 | 1.0 | 1.28 |

Numbers are rounded to the nearest \$0.1M

Planned Activities

July 2015 – December 2015

Sludge Treatment Project

Construction

- Complete Annex Facility construction
- Initiate Engineered Container Re-Lidding scope of work (In-Basin).

Equipment Procurement/Fabrication

- Continue ECRTS process equipment fabrication
- Update remaining calculations and other general process documentation for the safety-related Auxiliary Ventilation System Design.
- Preparing to support MASF Pre-Operational Testing (MPAT).

T-Plant

- Award fabrication contract for the in-cell racks.
- Initiate cell clean out activities in canyon
- Initiate process for K Basins ROD amendment or ESD

Planned Activities

July 2015 – December 2015

100K Min Safe

- Perform radioactive material area (RMA) maintenance (postings, barriers, etc.)
- Perform Waste Information Data Systems (WIDS) surveillances at 100K

100K D4

- 100K Characterization Wells
 - Complete construction of the drilling enclosure and ventilation system at UPR-100-K-1
 - Complete drilling and soil sampling at 116-KE-3
 - Complete well construction at 116-KE-3 and UPR-100-K-1
 - Complete characterization of UPR-100-K-1 and 116-KE-3 Waste Sites

100K Waste Sites

- Initiate Area AB waste site remediation; award subcontract and perform remediation services
- Initiate 165-KE asbestos abatement

TPA Quarterly Review

For Period: April - June 2015



Tri-Party Agreement

River Corridor Milestones:

M-16

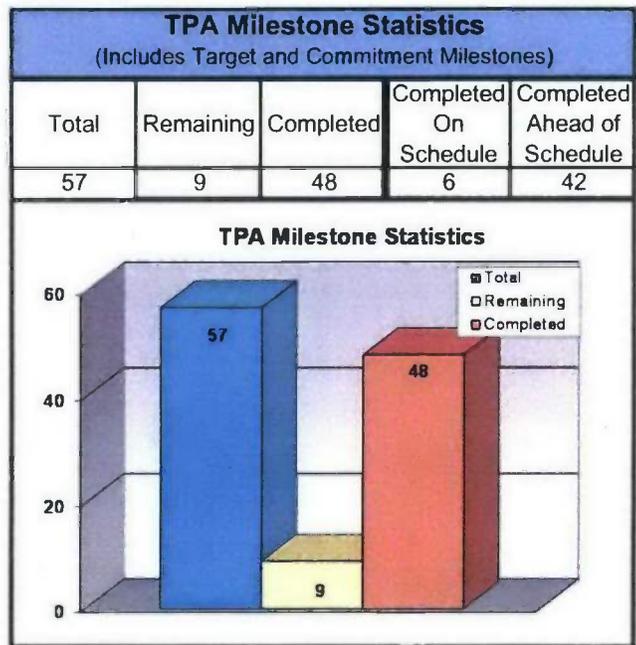
M-89

M-94

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

September 17, 2015

Protecting the Columbia River



Quarterly Summary (April – June 2015)

- **Completed TPA Milestones:**
-- None for this reporting period.
- **Approved Change Requests:**
-- None for this reporting period.

| TPA MS No. | Compliance Date | Title | Status | Comments |
|--|-----------------|--|-------------|---|
| M-16 Milestones - Remedial Action (milestones through 12/31/2016) | | | | |
| M-16-69 | 09/30/15 | Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of All Candidate Sites Listed in 300-FF-2 ROD (except for 618-10 and 618-11 Burial Grounds) | On schedule | RL has discussed the milestone completion criteria with EPA and reached agreement that retained portions of waste sites, the 600-63 waste site, and planting of the UPR-600-22 waste site, are not required to meet this milestone. No change package will be transmitted. A milestone completion letter will be sent to EPA upon completion of WSRF signatures/ revegetation prior to 9/30/15. |
| M-16-149 | 03/31/16 | Complete 100-IU-2/6 Interim Response Actions for Following Sites: 600-293, 600-294, 600-298, 600-299, 600-300, 600-301, 600-303, 600-305, 600-309, 600-310, 600-313, 600-316, 600-318, 600-319, 600-320, 600-321, 600-328, 600-329, 600-331, 600-332, 600-334, 600-326, 600-349, 600-358, 600-368, 600-369, 600-370, 600-371, 600-372, 600-373, 600-374, 600-375, 600-376, 600-377, 600-378, 600-379 | At Risk | The changed scope of 600-349 may cause delays to milestone completion. |
| M-16-161 | 03/31/16 | Complete Area Interim Response Actions for 18 100-D Area Sites, 10 100-H Area Sites, and 600-385, including revegetation of 100-D and 100-H Waste Sites. | At Risk | Cultural review for the 600-385 waste site may affect ability to complete the milestone by 3/31/16. The cultural clearance for waste site 600-385 was needed by 9/1/15 to complete this milestone by 3/31/16. |

M-89 Milestone - 324 Bldg. Non-Permitted MW Units Closure (milestones through 12/31/2016)

| | | | | |
|---------|----------|--|-------------|--|
| M-89-06 | 06/30/16 | Submit to Ecology in Accordance with Procedures in WAC 173-303-830(4)(b), a Request for a Class 2 Modification to Hanford Dangerous Waste Permit, to Include in Permit the "324 Bldg. Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73 revised as necessary to address releases to soil and to ensure compliance with requirements of WAC-173-303-610. DOE's revised closure plan will include a schedule for completing closure activities. | On schedule | |
|---------|----------|--|-------------|--|

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment

- Completed backfill of 100-D-100, 100-D-106, 100-D-72, 100-D-75:1, 100-D-86:1, 100-D-85:2, 100-D-69, 100-D-97, and 100-D-99
- Received approval of 15 waste site closure documents.



Aerial View of 100-D Area May 2015



Aerial View of 309 Backfill

M-89 – 324 Bldg. Non-Permitted MW Units Closure

- Continued review and approval of the 90% design deliverables and supported 90% design efforts for remediation of 300-296 waste site under 324 B-Cell.
- Provided electric to power mockup facility, obtained occupancy permit from city of Richland, and awarded contract to load-test crane.

M-94 – 300 Area Surplus Facilities Disposition

- Began backfill of 309 Building and issued post-demolition summary report.

Significant Accomplishments – For Last 3 Months (cont'd):

ERDF

- For period April-June, disposed ~ 87,459 tons of waste; bringing total to ~ 17.4 million tons disposed in ERDF.
- Provided the Closure Operations Project with transportation, treatment, and disposal support.
- Received shipments of roll-on/roll-off containers, drums, and special-handled waste from other Hanford Contractors (OHCs).



ERDF Crew Adding Clean Soil to Extend Clean Working Surface Over Waste

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Complete backfill of 100-D-31:11/12 and 100-D-86:3.
- Complete backfill of 100-H-28:4, 100-H-25:5, 100-H-42, 100-H-44, 100-H-49:1, 100-H-51:1, 100-H-51:2, 100-H-51:3, 100-H-51:6, 100-H-59:1.
- Start backfill of 100-H-28:2.

M-89 – 324 Bldg. Non-Permitted Mixed Waste Units Closure

- Complete review and approval of 300-296 90% design deliverables and 100% design elements.
- Begin demolition and debris loadout of 300-296 Proof of Principle site.

ERDF

- Operate 2 ramps (100-160 cans/day).
- Receive and offload long-length items from Tank Farms as weather permits.

PERFORMANCE SUMMARY
 Contract Inception (8/27/05) through June 2015
 (\$K)

| | IPB | | CUMULATIVE | | | Previous Quarter Comparison | | | |
|--------------------------|------------------|------------------|------------------|------------------|------------------|-----------------------------|----------------|----------------|----------------|
| | BAC | EAC | BCWS | BCWP | ACWP | SCHEDULE VAR (\$) | | COST VAR (\$) | |
| | | | | | | Mar | Jun | Mar | Jun |
| D4 | 651,588 | 631,895 | 645,323 | 634,401 | 567,503 | -12,022 | -10,922 | 66,131 | 66,898 |
| Reactor ISS | 75,902 | 81,777 | 75,902 | 75,902 | 81,777 | 0 | 0 | -5,875 | -5,875 |
| Field Remediation | 994,838 | 926,446 | 946,819 | 857,596 | 794,543 | -86,338 | -89,222 | 57,043 | 63,054 |
| Waste Operations | 625,836 | 506,620 | 595,248 | 607,971 | 484,564 | 17,410 | 12,724 | 125,543 | 123,407 |
| ESFC | 80,791 | 61,034 | 78,713 | 76,295 | 58,607 | -2,482 | -2,418 | 17,663 | 17,688 |
| Mission/General Support | 438,576 | 407,780 | 404,785 | 404,785 | 368,347 | 0 | 0 | 34,138 | 36,437 |
| Transition | 3,979 | 3,747 | 3,979 | 3,979 | 3,747 | 0 | 0 | 232 | 232 |
| Contingency | | | | | | 0 | 0 | 0 | 0 |
| TARGET COST TOTAL | 2,871,510 | 2,619,300 | 2,750,769 | 2,660,930 | 2,359,088 | -83,432 | -89,839 | 294,875 | 301,841 |

Schedule Variance (PMB): (\$89,839K)

- Variance associated with 618-10, 100-D, and 100-H remediation delays. 618-11 negative schedule variance is due to funding constraints.
- Delay in D4 due to waste site discovered beneath 324 Building. Min-safe activities will continue until in-cell waste site remediation is complete.
- 618-10 and 324 Building project management and support delays due to apportioned effort calculations.

Cost Variance (PMB): \$301,841K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; and in utility charges and surveillance and maintenance activities. Positive cost variance decreasing due to impacts from beryllium program changes and differing site conditions at 309 and 340 Buildings, as well as project support costs.
- 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

600-385 Waste Site Cultural Resource Review

- **Issue:** Delays of the Washington State Historic Preservation Office (SHPO) approval have placed completion of M-016-161, due March 31, 2016, at risk.

Status: Discussions are in progress with the tribes regarding 600-385 cultural mitigation actions with a goal to have an approved memorandum of agreement (MOA) in September 2015. Accelerated schedules for remediation and closure require remediation to be completed prior to the November eagle nesting season.

600-349 Waste Site Cultural Resource Review

- **Issue:** A sampling approach for the expanded scope of 600-349 has been developed with EPA and will be presented to the Tribal parties in September 2015. The path-forward for approval of the sampling and remediation approach on Gable Mountain is uncertain, and completion of M-016-161, due March 31, 2016, is at risk.

Status: Sampling and any needed remediation must be able to occur under a MOA negotiated with the tribes.