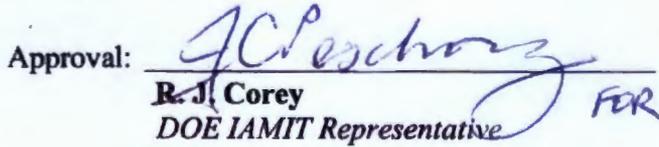


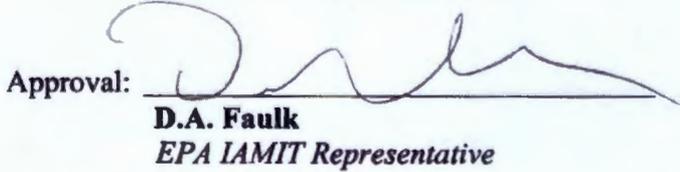
**River Corridor/Central Plateau
Tri-Party Agreement Milestone Review
Meeting Minutes
June 19, 2014**

Approval: 
J. Hedges
Ecology IAMIT Representative

Date: 7/28/14

Approval: 
R. J. Corey
DOE IAMIT Representative FOR

Date: 7-24-14

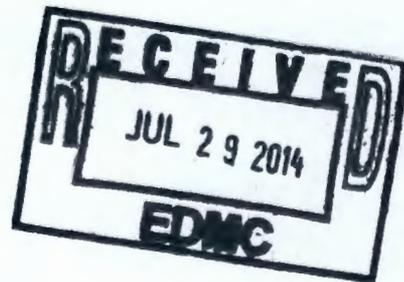
Approval: 
D.A. Faulk
EPA IAMIT Representative

Date: 7/29/14

Minutes Prepared by:


R.E. Piippo
Mission Support Alliance, LLC

Date: 7-22-14



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|--------------------|---------|-----------------------|---------|
| Blackburn, J. E.* | WCH | Jentzen, B.K. | Ecology |
| Bohnee, G. | NPT | Jim, R. | Yakama |
| Bond, F.W.* | Ecology | Korenkiewicz, S.L.* | RL |
| Boyd, A. | Ecology | Knox, K.E.* | KCR |
| Brown, M.J.* | Ecology | Lobos, R.A. | EPA |
| Butler, D.H. | MSA | Long, R.L. | RL |
| Cameron, C.E. | EPA | Lowe, S.* | Ecology |
| Charboneau, B.L.* | RL | Lynch, J.J. | ORP |
| Cimon, S.* | ODE | McKenna M. C.* | MSA |
| Cline, M.W.* | RL | McKarns, A.C. | RL |
| Collins, M.S.* | RL | Menard, N.M.* | Ecology |
| Corey R. J. | RL | Morse J.G. | RL |
| Cox, W.G. | CHPRC | Niles, K. | ODE |
| Dagan, E. D.* | DOE | Ortiz, S.M. | RL |
| Dittmer, L.M.* | CHPRC | Peschong, J.C.* | RL |
| Dover G.L.* | WCH | Piippo, R.E.* | MSA |
| Eberlein E.* | Ecology | Pragnano, A.* | Ecology |
| Einan, D.R. | EPA | Price, J.B.* | Ecology |
| Ellison, B.A. | RL | Quintero, R. A.* | RL |
| Farabee, O.A.* | RL | Sax, S.M.* | WCH |
| Faulk, D.A.* | EPA | Singleton, D.G.* | Ecology |
| Foley, B. L.* | RL | Skinnarland, E.R.* | Ecology |
| French, M.S.* | RL | Smith, S. C. | DOE |
| Fletcher, T. W.* | ORP | Teimouri, A.E. | HQ |
| Gent, P. | Ecology | Teynor, T.K. | RL |
| Glossbrener, E. T. | DOE | Turner, M. J. | MSA |
| Goswami, D. | Ecology | Vanni, J. | Yakama |
| Harris, S. | CTUIR | Ware, N.* | Ecology |
| Heather, J.* | Ecology | Welsch, K.R.* | Ecology |
| Hedges, J.* | Ecology | Whalen, C. | Ecology |
| Hildebrand, D. R. | RL | Williamson, R.U.* | WCH |
| Henry, D. | ODE | Yasek, D.M. | WCH |
| Howell, T. Q.* | WCH | Administrative Record | |

*Attendees

**River Corridor/Central Plateau
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River Corridor Closure Project - Milestones M-16/M-89/M-92/M-94

Quarterly Summary (January - March 2014) - DOE-RL noted that there were several milestones completed during the quarter (see handout).

Milestone Status:

M-16-149 - DOE-RL reported that this milestone is at risk due to tribal cultural resources review issues. DOE-RL stated that the fire marshal has notified DOE-RL that work will be limited in remote areas due to the high fire danger this year, which is a contributor to the milestone being at risk. DOE-RL added that there have been more anomalies at the Unexploded Ordnance (UXO) site, which has slowed work to some extent. EPA stated that it was willing to consider giving DOE-RL relief on milestones if there is a fire issue or the work scope has increased, but the inability to manage the tribal cultural resources issues would not be justification for requesting relief on a milestone. EPA expressed disappointment with DOE-RL's process regarding the cultural resources review.

M-89-06-T01 - DOE-RL noted that contractors Areva and Kurion are on board working on the 30 percent design. Ecology stated that the 30 percent design that is coming in on schedule needs to specifically identify permitting activities. EPA added that the expectation is that all the work will be done by the milestone date of 2018, and DOE-RL's process for managing the schedule with the milestone will be a point of interest. DOE-RL responded that once the logical project path forward is presented, there will be more discussion to follow with EPA and Ecology.

Significant Accomplishments - For Last 3 Months:

M-16 - DOE-RL noted that completion of TPA milestone M-16-163 100-N interim response actions involved a major effort with completion of 58 waste sites at the 100-N Area. Ecology expressed kudos to the contractors in DOE-RL for completing the milestone a year ahead of time.

M-92 - DOE-RL noted that Washington Closure completed all of their work scope in the 100 Area for D4, and the remaining D4 activity is the 100-K work scope in the CHPRC contract.

Significant Actions Planned - For Next Three Months:

M-94 - 300 Area Surplus Facilities Disposition - DOE-RL stated that a majority of the emphasis is moving to the 300 Area, and the work crews will be transitioning.

Performance Summary - DOE-RL stated that the cost and schedule performance are well within the overall metrics.

Issues - DOE-RL noted that the issue regarding the cultural resources review was discussed under the milestone status for M-16-149. DOE-RL added that there is an issue with the borrow area material at the 100-N Area, which is impacting the cost and schedule. DOE-RL stated that it is working through a process that it believes will result in a Memorandum of Agreement (MOA). Ecology stated that the cultural issues are holding up the injections of apatite along 100-N, and asked for an update. DOE-RL did not have an update, and indicated that the groundwater team might be able to provide an update. Washington Closure noted that EPA headquarters will be visiting ERDF next week relative to the proposed ERDF ROD amendment to invoke an ARAR waiver to allow in-trench treatment.

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

Accomplishments – 2nd Quarter 2014:

Sludge Treatment Project Phase 1 - Removal of Containerized Sludge - DOE-RL reported that milestone M-016-175, to begin sludge removal from the 105-KW fuel storage basin, is to be missed. DOE-RL stated that a notification letter was sent to EPA last week that the milestone will be missed, and DOE-RL committed to providing EPA a new proposed milestone date by September 2014. DOE-RL noted that notification was made during the May and June Unit Managers Meetings (UMM) that the milestone was going to be missed. DOE-RL stated the understanding that an explanation for the delay in sludge removal and the current projection for start of sludge removal are to be provided to EPA. DOE-RL indicated that the current projection is to start removal of the sludge in about December of 2017, and complete the sludge removal about a year later in December 2018. DOE-RL stated that a meeting will be scheduled with EPA in the next two to three weeks to formally provide the proposed projections and begin discussions on the milestone. EPA noted that a letter will be sent to DOE-RL stating that it disagrees with the just cause for missing M-016-175, and that DOE-RL chose not to place funding on sludge removal, even though there are milestones.

DOE-RL stated that there are periodic meetings with EPA to discuss 100-K activities, and efforts are being made to schedule another meeting within the next two weeks. DOE-RL suggested that the meeting could be scheduled as part of the milestone meeting regarding M-016-175, or as a separate meeting and RL will present to EPA an explanation for the delay to the sludge milestones. EPA suggested the week of July 14-18, 2014 for scheduling the meeting.

DOE-RL reported on the progress that is being made towards M-016-175. The structural concrete work on the annex building at the K West basin has been completed, and construction of the structural steel portion of the annex is under way. DOE-RL stated that the shell of the annex building is anticipated to be completed by November 2014.

EPA raised two issues for DOE-RL to take note: 1) ensure permitting is in place for T Plant storage/treatment of sludge; 2) ensure there is an Explanation of Significant Difference (ESD) for the Record of Decision (ROD) to expand the concept of lag storage. EPA noted that lag storage is now considered to be weeks or months away and not years away, and an ESD needs to be in place before any sludge is shipped to T Plant. Ecology requested a conceptual lifecycle schedule for T Plant that includes a permitting schedule, design schedule, construction schedule and nuclear

safety. DOE-RL clarified that the schedule will be for work to be done at T Plant in support of sludge receipt and storage. EPA concurred, noting that until there is a permit in place, it will not allow sludge to be shipped to T Plant. Ecology agreed with EPA's statement, noting that the typical permitting duration is about 18 months, with the design schedule overlapping the permitting schedule, followed by the construction schedule. EPA suggested including Ecology at the meeting planned for the week of July 14, and DOE-RL could provide the four major schedule components (permitting, design, construction, nuclear safety) that Ecology requested. EPA also requested that DOE-RL provide an ESD schedule at the meeting.

EPA suggested a tour of MASF during the week of July 14, 2014. DOE-RL stated that the integrated process optimization demonstration (IPOD) is wrapping up at MASF, but the IPOD system would still be at MASF for EPA to tour. DOE-RL stated that the purpose of the IPOD is to improve the operability of the sludge retrieval system, and the final design was approved by the DOE-RL manager in February 2014. DOE-RL added that the IPOD confirms the improvements that were made in the final design. The improvements resulted from earlier testing of the preliminary design. DOE-RL stated that there is also testing done in terms of operation steps, sequences and durations that will be used to remove the sludge from the basin.

DOE-RL stated that at the final design stage of the sludge treatment project is a safety document called the preliminary design safety analysis (PDSA). DOE-RL pointed out that even though the word "preliminary" is in the term, the PDSA reflects the final design of the system. There will be a final documented safety analysis (DSA) when the sludge retrieval operations start up. DOE-RL noted that the design to modify T Plant cells was completed, but the modifications aren't planned until next year. EPA asked if a permit needs to be in place before DOE-RL starts the modifications to T Plant. DOE-RL responded that the question needs to be posed to the regulatory team. Ecology noted that if there are permitting discussions with DOE-RL, and Ecology makes a determination that the design needs to be changed, then the design would not be considered final. DOE-RL stated that the general understanding is that RCRA permitting was not required since it is a CERCLA activity, but the question of permitting needs to be followed up. EPA stated that the crossover is that the sludge is being sent to a permitted treatment, storage, disposal (TSD) facility, and once it crosses the threshold into T Plant, the work won't be done in a non-RCRA facility. EPA added that it would accept not having any permits in place, but that is not the DOE understanding about how T Plant will be configured.

100 KE Reactor Surveillance and Maintenance – DOE-RL reported that a problem with the roof on the 105 KE structure was discovered in January 2014, and the repair work was completed in June 2014. Otherwise 100 K remains in minimum safe status this year.

100 K Minimum Safe Activities – DOE-RL noted that some asbestos abatement in 165KE is being planned, depending on resource availability. EPA noted that its asbestos inspector has inquired about conducting another inspection, and requested more information regarding the extent of the planned asbestos abatement work. DOE-RL agreed to follow up with EPA's request for more details on the asbestos work.

Planned Activities Next Six Months:

Engineered Container Retrieval and Transfer System (ECRTS) - DOE-RL noted that work is under way on a series of technical initiatives to optimize the process design for ECRTS, stating that the design defines three sludge types in the basin: sludge generated in the K East basin, sludge vacuumed from the K West basin, and the settler tank sludge. DOE-RL stated that the three sludge streams have been segregated for safety reasons until recently, and a decision is being implemented to combine the sludge streams, reducing the number of sludge transportation and storage containers (STSCs) needed. DOE-RL stated that originally it was estimated that about 24 STSCs were needed, and it is now estimated to be about 17 or 18 STSCs. DOE-RL noted that the reduction will save on the cost to fabricate and purchase the STSCs, and also reduce the duration of operations to remove the sludge. DOE-RL stated that the safety document will be updated to reflect the technical initiatives, and the contractor will be submitting the safety document to DOE-RL for review in September 2014.

DOE-RL reported that efforts are under way to procure ECRTS process equipment with omnibus funding that became available in March 2014, and the biggest procurement will be the STSCs. DOE-RL noted that the contract to fabricate the STSCs is expected to be awarded by the end of this fiscal year (9/30/14). EPA inquired about the fabricator of the STSCs. DOE-RL responded that a request for proposal will be put out soon, and there are several well-known manufacturers who have expressed an interest.

KW Fuel Storage Basin Modified Annex Construction – DOE-RL noted that installation of the annex structural concrete has been completed.

100K D4 – DOE-RL stated that there are plans to remove a couple of mobile offices in the KE sedimentation basins area where there is a contamination site. DOE-RL noted that planning for the 100KE borehole work has started, and the field work is anticipated for the October/November 2014 time frame. DOE-RL added that the work is expected to be completed in about a year from now, which will include the characterization data. EPA stated that getting the boreholes installed and the characterization data is the high priority to be able to determine whether or not an interim remedy could be put in place that would be protective.

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

DOE-RL reported that the delivery milestone was met for the annual lifecycle report in January 2014, and DOE-RL intends to meet delivery of the next lifecycle report in January 2015. DOE-RL stated that the TPA milestone managers agreed that the 2015 lifecycle report would not include an alternatives analysis. DOE-RL cited one reason is the CERCLA work that was completed well before its due date in 2015, and it was decided that an alternatives analysis was not needed for that work. Another reason cited is that some of the work that is in the lifecycle report is subject to funding constraints. DOE-RL stated that the planning case for the 2015 lifecycle report is currently being developed. DOE-RL noted that there are no issues that have been identified with the lifecycle report.

PFPP Closure Project - TPA Milestone M-083

Quarterly Milestone Summary (Second Quarter FY14) - DOE-RL stated that the demolition ready milestone (M-083-44) and the demo completion milestone (M-083-00A) are at risk, and that status has been reported for some time. DOE-RL noted that efforts still continue to meet the slab-on-grade milestone in 2016.

Accomplishments 2nd Quarter FY 2014 - DOE-RL noted the importance of maintaining safety at PFP, and that there continues to be a very good safety posture. DOE-RL added that safety is one of the key elements needed to be able to continue work. DOE-RL stated that a total of 211 out of 238 gloveboxes have been completed, and in the April-June 2014 time frame three more gloveboxes were done. DOE-RL explained that when a glovebox is done, that means it has been taken off the ventilation system, completely stabilized, and is wrapped up and ready to be removed. DOE-RL noted that the crane resumed operation at the beginning of this year, and 136 of 196 pencil tanks have been completed in the Plutonium Reclamation Facility (PRF). The contractor is planning to implement an overtime shift this summer in an effort to recover time lost last year on the pencil tank work, which was due to the crane being down most of the year.

DOE-RL reported that final approval was received from the respiratory committee to use the new breathing air compressor system, which will be coupled with the new Rich Industry suits. DOE-RL noted that the workers were involved from the beginning with bringing the suit on site. The first area that is planned for use of the new breathing air system is in the 242-Z facility.

DOE-RL stated that work on the demolition footprint started up this spring around the eight ancillary facilities. Seven of the eight buildings have been certified as cold and dark, and four of the eight buildings have been removed. DOE-RL noted that a D&D team was brought on board and has been working alongside the radiological control technicians (RCTs), and communication by contractor management and field work supervisors has been successful in laying out the working jurisdictions between the two work groups

DOE-RL stated that the objective of the enhanced maintenance plan (EMP) was to determine how many of the fans were needed to maintain the proper flows, and there was quite a bit of flow testing that was done throughout the facility in December 2013. Some of the results from the flow testing were put into a revision of the documented safety analysis (DSA) that was submitted by the contractor, and the revised DSA is under discussion between the DOE-RL and contractor safety teams. DOE-RL noted that the revisions introduce more maintenance on the ventilation systems in the form of alarms for the fans if they reach a certain level of concern. DOE-RL stated that efforts are under way to phase out 243-Z, which is the liquid effluent facility at PFP. DOE-RL noted that currently about 4,000 to 5,000 gallons of effluent are generated per day from operations in the PFP complex. Temporary air compressors have been brought in to replace the pumps in the systems that are currently operating to bring effluent into 243-Z. DOE-RL indicated that D&D of the 243-Z facility could potentially be accelerated if the work is finished in a timely way.

Project Baseline Performance - DOE-RL reported that the cost performance index (CPI) is 0.95, and the schedule performance index (SPI) is 0.97. DOE-RL noted that the ramp-down of work after Recovery Act funding, the change in work force structure (bump-and-roll), sequestration in

FY13, and the crane issues were the major impacts to the cost and schedule performance. DOE-RL added that the project continues to complete work in a safe manner.

Issues/Challenges - DOE-RL noted that phase 2 of the beryllium program is being implemented. DOE-RL stated that a team at PFP is working to update the DSA, and it represents a significant update. The updated DSA will not only consider accident scenarios, which have changed significantly, and other factors that need to be taken into consideration when PFP was an operating facility, but it will also take into consideration where PFP is today; i.e., gloveboxes that are off the ventilation system. The contractor is scheduled to submit the complete DSA revision to DOE-RL this fall.

DOE-RL stated that the retention of a skilled work force is very important in order to maintain stability in terms of funding and resources. Some of the more experienced workers at PFP had opportunities to move to jobs away from PFP, and in order to counteract the situation, the contractor preferentially hired replacement workers, some of whom had experience that was gained during the Recovery Act training. DOE-RL noted that those workers had been working in other places and were continuing to use the skills needed to maintain the Recovery Act training. DOE-RL stated that resource management is very closely watched by the contractor.

Planned Activities Next 3 Months - DOE-RL stated that the foam demonstration associated with the 234-5Z RMA/RMC lines was done, and videos and notes are available for Ecology and EPA to view. DOE-RL characterized the foam as a void-fill technology, using a material that doesn't spontaneously combust while filling a stainless steel glovebox. The foam will be used in situations where a glovebox has been completely cleaned out, disconnected and isolated, and is at a level of contamination that it can't be sent to Permafix for further size-reduction. DOE-RL stated that the concept is to foam the inside of the glovebox to make it more stable and then be able to do removal of hot spots based on non-destructive assay (NDA) results. DOE-RL noted that the draft removal action work plan (RAWP) is targeted for submittal to Ecology for review by the end of June 2014, or the first week of July 2014.

PFP Deactivation Progress - DOE-RL stated that during the past eight weeks, the contractor (CHPRC) conducted an intensive review of the field execution schedule (FES). The FES is the contractor's technical approach for getting to slab-on-grade, and the review showed that PFP would be demo-ready by August 2016, and demo would be completed by February 2017. DOE-RL noted that the schedule did not include any risks or efficiencies and opportunities, such as overtime, built into it. DOE-RL stated that the contractor and DOE-RL remain committed to meeting the September 2016 milestone (M-083-00A).

Oregon Department of Energy (ODOE) asked what issues make a glovebox not a candidate for size-reduction. DOE-RL responded that one of the triggers is if the license limits at Permafix are exceeded when the contamination survey is done. DOE-RL noted that the FES identified an approach where in situ size-reduction is done inside the facility by taking out the hot spots, which is different from the standard size-reduction. Another concept identified in the FES was dismantlement, where all the pieces and components that make up a glovebox are taken apart (bolts, gaskets, etc.) to be safely and compliantly packaged. DOE-RL added that another situation where a glovebox would not be a candidate for size-reduction would be that the

contamination was high enough to meet the transuranic (TRU) waste limits, and the glovebox would then be put into a shipping container and stored at the Central Waste Complex (CWC) for eventual certification and shipment to the Waste Isolation Pilot Plant (WIPP).

Ecology mentioned the stop work that was lifted. DOE-RL responded that the stop work was initiated on April 17, 2014, and was lifted June 11, 2014. The stop work resulted after there was a loud bang and an orange flash while a demister line was being cut that fed into a glovebox. DOE-RL explained that a portable saw was used to cut the line inside the glovebox on negative ventilation, and it was determined that there was enough heat and energy generated from the saw that some flammable gases or volatile organics were ignited. The residue from the one-inch demister line was identified as creating the gas. DOE-RL noted it was learned that if there had been a larger amount of heat generated, that could have created other gases that could have made the flash more significant. The lesson learned was how to manage the potential risk of going into an area where there is uncertainty about what was in a tank or a line. DOE-RL stated that before any work packages are released that do further intrusive work into places with that kind of risk, a checklist is now in place to mitigate the uncertainty of the situation and add protectiveness to the workers. Ecology noted that other work was done during the stop work, but it caused a delay which impacts meeting the milestone.

M-091/M-026 TPA Quarterly Milestone Review

Accomplishments – January-March 2014 – DOE-RL reported that a redline strikeout version of the 2012 Project Management Plan (PMP), incorporating Ecology's comments, was submitted to Ecology. Ecology explained that in the previous year, the PMP did not meet the TPA qualifications for a primary document and a significant number of comments were generated. Ecology stated that DOE-RL responded by indicating Ecology's comments would be incorporated in the following year's PMP. Ecology disagreed with DOE-RL's approach, and the result was the redline strikeout version, in which the comments and comment responses are more easily recognized. Ecology added that the 2012 PMP is now considered completed. DOE-RL noted that the 2013 PMP has been submitted to Ecology for review. The PMP is associated with milestone M-091-03.

DOE-RL reported that the Land Disposal Restrictions (LDR) report (M-026-01) was submitted to Ecology in April 2014, and Ecology's comments were received in May 2014. DOE-RL stated that its comment responses will be submitted to Ecology as a redline strikeout version. Ecology stated its preference for the LDR report to be finalized and not submitted as a redline strikeout. DOE-RL responded that a discussion was needed. Ecology agreed to have a discussion regarding the format for the final LDR report.

DOE-RL stated that another box of waste associated with M-091-44S was shipped to Permafix, and Ecology will be notified when the box has been received back from Permafix.

Milestone Status:

M-091-40 - DOE-RL stated that no work has been done under this milestone, and a letter was sent notifying Ecology that the target milestone was not met.

M-091-41 - DOE-RL stated that no waste has been retrieved beyond the 100 cubic meters that was retrieved as part of Recovery Act funding.

M-091-42 - DOE-RL noted that there are still about 60 cubic meters of legacy waste in storage at CWC. Ecology stated that there was a discussion at the Senior Executive Committee (SEC) meeting about DOE-RL's expectation of issues with retrieving waste over the next several years, in part due to the indefinite shutdown at WIPP. Ecology requested a lifecycle schedule for the M-91 waste, which should include all of the boxes in the outside storage area, the approximately 2,200 containers inside CWC that need to be repackaged, the entire 8,800 containers inside CWC, and the retrieval schedule. Ecology suggested meeting to discuss the schedule, and that EPA should be included in the discussion. Ecology indicated that the discussion will help with the milestones that DOE-RL will miss, and also help with the discussion regarding EPA's Consent Agreement and Final Order (CAFO). DOE-RL responded that the schedule is being drafted, and it expects to meet with Ecology and EPA to discuss the schedule within two weeks.

M-091-44S - DOE-RL stated that as a result of the Agreed Order (AO) with Ecology, a priority list for the next two years is being generated and will be submitted to Ecology in the near future.

M-091-46 - DOE-RL reported that the Hanford Engineering Development Laboratory (HEDL) drums were sent to Permafrix. DOE-RL noted that the one drum in 2404-WC that leaked was part of the HEDL drum family that had been sent to Permafrix.

Project Baseline Performance - DOE-RL noted that the updated project baseline performance is mostly legacy since there is very little work being done.

Actions Planned for Next Six Months - DOE-RL noted that there were no burial ground quarterly sampling results, and that the PMP has been submitted to Ecology, and Ecology's comments regarding the LDR report have been resolved.

M-092-05 - DOE-RL stated that options are being evaluated on moving forward with the interim dry storage project for the cesium/strontium capsules at the Waste Encapsulation and Storage Facility (WESF). DOE-RL noted that this effort is associated with milestone M-092-00. Ecology requested the startup of meetings to discuss the permitting schedule for the dry storage project. Ecology noted that the cesium/strontium capsules were discussed at the SEC.

M-92-00 - Ecology identified another discussion that was needed regarding a schedule for the 400 Area Waste Management Area. Ecology referred to the note that was sent to DOE-RL about the concern identified in Ecology's inspection report. Ecology noted that it was a concern and not a violation, but there is a potential that Ecology or EPA could do another inspection which could result in a violation. Ecology stated that the closure paperwork for the 400 Area needs to be updated and include a schedule in TPA space rather than in the permit. DOE-RL responded that documentation has been sent to Ecology over the last two years stating its position that there is no financial or safety benefit from closing the 400 Area Interim Storage Area (ISA). DOE-RL added that the ISA will be needed for future sodium work, and the cost of moving the waste stored on the ISA pad is between 150-200K. Ecology responded that there was no disagreement with DOE-RL's statements, but the compliance team reviews RCRA compliance and has identified a

RCRA compliance issue with the closure paperwork. Ecology noted that the concern identified in the inspection report is with areas that are supposed to be closed within a year after the last receipt of waste. Ecology added that there are variances to the requirement, but DOE-RL has not documented a basis for the variance. DOE-RL responded that the issue was addressed in the letter sent to Ecology. Ecology stated that if an inspection is conducted against the permit, the letter will not be looked at and the paperwork will not be in place. DOE-RL agreed that a discussion is needed, because it was not aware of what paperwork was not in place.

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

Accomplishments 2nd Quarter FY 2014 - DOE-RL noted that no milestones were completed this quarter, and the main focus was on surveillances that are required on the Waste Information Data System (WIDS) sites. DOE-RL reported that all of the asbestos has been removed from the Plutonium Uranium Extraction (PUREX) plant Tank 11.

Milestone Status - DOE-RL noted that the status of milestone M-085-01 is on schedule. Ecology pointed out that the next two milestones are shown at risk for the U Plant Canyon (M-016-200A/M-016-200B), and the logic for establishing M-085-01 was built on the U Plant milestones starting on time. Ecology stated that U Plant was to be demolished and have a barrier constructed, and then the lessons learned would be used to negotiate the milestone schedules for the other canyons. Ecology added that since the U Plant milestones are at risk, the assertion is that M-085-01 is not on schedule, but at risk. EPA stated its expectation is that DOE-RL will provide funding to complete U Plant on time since the cleanup period has been 25 years, and if it is not funded, DOE-RL will end up in a non-compliant situation. Ecology added that there have been discussions about closing the units at T Plant, and there has been a tendency for DOE-RL to point to the M-085-00 milestone. Ecology noted that T Plant is not included in the M-085-00 milestone series and could not be pointed to in the discussions.

Ecology initiated a discussion regarding milestones M-037-11 and M-037-10. Ecology noted that the reason M-037-11 is at risk to complete closure requirements for B-3 and S-10 is probably due to the gap between Ecology and DOE-RL in reaching agreement on approval of the closure plans. Ecology stated that it is waiting on DOE-RL's response to its comments, and requested that DOE-RL work to resolve the closure plan comments and submit a viable closure plan. Ecology added that the current closure plan is not considered viable. It was noted that a discussion is needed with Ecology and DOE-RL legal counsel before DOE-RL moves forward with the closure plan. Ecology noted that the next milestone is to submit five more closure plans, and expressed concern with the potential quality of those closure plans in light of the issues with the B-3 and S-10 closure plans. DOE-RL acknowledged Ecology's comments and concern, stating that the discussion between legal counsel needs to occur.

Project Baseline Performance - DOE-RL stated that there is a slight underrun in the budget, which will allow some of the money to be applied to site projects that are currently being discussed.

Planned Activities April – September 2014 – DOE-RL stated that the construction camp to be demolished refers to an area by PFP and U Plant that is comprised of some old buildings surrounded by a fence, and it is referred to as the 2300 Area. Work is scheduled to start in the area

next week, and is expected to be completed by the first of September 2014. ODOE asked about the volume expected for the excavation after the free material is removed from the construction camp. DOE-RL estimated it would be the equivalent of a dozen mobile offices, and the pads will be left since the area was used for turnover, breaks, and management meetings. DOE-RL noted that the PUREX Tank 11 asbestos removal has been done. DOE-RL stated that there are two sections of steam lines scheduled for repair/removal, one at PFP and one near the 2300 Area, and some of the underrun money is being used for the work. The steam line near PFP was chosen, not because it's in exceptional disrepair, but it is located in a highly populated area and is getting worse. The steam line near the 2300 Area is slated for repair/removal due to its visual appearance more than the functional appearance.

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

Accomplishments – 2nd Quarter 2014 (January-March 2014) - DOE-RL reported that installation of the wells was completed for 100-BC-5, and the two-year monitoring program is being started. DOE-RL noted that the aquifer tubes had previously been completed, and regular sampling on the aquifer tubes is under way.

100-D/H – DOE-RL stated that the decisional draft of the RD/RA work plan is an interim action RD/RA work plan to cover the new pump and treat systems, since the previous work plan is out of date.

300 Area – DOE-RL noted that the decisional draft of the integrated RD/RA work plan is in review. EPA requested an extension for its review on the RD/RA work plan since a new project manager will be joining its team next Monday. Ecology asked DOE-RL to identify whether the RD/RA work plans are interim or final. DOE-RL responded that the 100-D/H RD/RA work plan is interim and the 300 Area RD/RA is final.

200-IS-1/200-WA-1/200-SW-2 – DOE-RL stated that the dispute resolution period was extended for IS-1 to August 2014 so that the technical issues could be identified. DOE-RL indicated that the technical issue resolution is to be elevated to the Inter-Agency Management Integration Team (IAMIT). DOE-RL noted that once resolution is reached, a schedule can be developed for IS-1. DOE-RL stated that the dispute resolution period for SW-2 was extended to the end of July 2014. DOE-RL noted that a path forward has been agreed to for SW-2, and the extra month was needed to prepare the change packages. Ecology indicated that a Draft B work plan will be prepared for SW-2. DOE-RL stated that there is no milestone for WA-1, but it is being worked in conjunction with IS-1 and SW-2.

200-UP-1 – DOE-RL reported that work is under way on well installation and the piping layouts. The goal is to receive delivery of the ion exchange tank by the end of this fiscal year (9/30/2014), and get the tank installed in early FY 2015.

200-DV-1 - DOE-RL stated that perched water is still being pulled out of the one well, and two additional wells have been installed, although they are not being turned on yet in the effort to not put any more water into the Effluent Treatment Facility (ETF) than necessary. When the uranium

treatment at 200 West Area is operational, the three wells will be running and the uranium perched water will be trucked over to 200 West. DOE-RL stated that the three wells should run for several years, tripling the amount of perched water up to 5,000-6,000 gallons per week. It was noted that the third bullet under 200-DV-1 should be corrected to read 2.4×10^9 picocuries.

River Corridor and Central Plateau Groundwater – DOE-RL stated that the pump and treat systems are running exceptionally well. DOE-RL noted that the 200 West pump and treat system is still injection limited, and four more injection wells have been installed with the goal of increasing the flow rate. DOE-RL stated that the River Corridor pump and treat systems have been running near 100 percent or higher capacity, even though they are limited on wells. There is a focus on putting more wells in at the River Corridor and to start pumping more chrome.

Drilling – DOE-RL reported that a second transient perched water well has been installed by D Area.

Sampling - DOE-RL stated that efforts are under way to minimize purgewater when samples are pulled, and low volume samplers are being used that do not require as much purgewater. DOE-RL reported that the sampling and analysis plans (SAPs) are being reviewed in an effort to reduce the sampling and monitoring program. DOE-RL noted that about 19 to \$20 million a year are spent on sampling and monitoring, and going offsite with sample analysis will help reduce the cost.

Milestone Summary - DOE-RL stated that milestone M-015-38B, 200 Outer Area Area Feasibility Study and Proposed Plan, is not considered a priority and it is to be missed, and notification letters will be sent to EPA and Ecology. Ecology noted that 38B is related to a couple of the RCRA milestones for closing 216-B-3 and 216-S-10, and if the parties go to enforcement, not meeting 38B will undercut DOE-RL's case if it argues that it will fall under CERCLA. Ecology added that its position on priorities is unchanged regarding 38B. DOE-RL noted that M-015-21A, 200-BP-5 and 200-PO-1 Feasibility Study and Proposed Plan, and M-015-110B, 200-DV-1 Corrective Measures Study/Feasibility Study and Corrective Action Decision/Proposed Plan are to be missed, and those milestones fall under the Consent Decree, which is currently being negotiated.

Ecology referred to the five RCRA TSD closure plans (M-037-02). DOE-RL stated that the five closure plans have been completed and are in the process of being transmitted to Ecology next week. DOE-RL added that the five closure plans are very similar to the two closure plans that were submitted under M-037-11. Ecology reiterated that the two closure plans are not considered viable, and the five closure plans will also not be considered viable since they are similar. Ecology noted that M-015-92A, 200 East Area investigation work plan is to be missed, and stated that if the parties go to enforcement or dispute on the RCRA closure plans, not having the CERCLA work ongoing will undercut DOE-RL's case. DOE-RL responded that the parties need to discuss all of the Central Plateau milestones, and a letter is being drafted that recommends having that discussion. EPA stated that the work that DOE-RL self-performed for the perched water EE/CA and action memorandum was very impressive, and suggested DOE-RL consider self-performing the CW-3 Outer Area feasibility study report, particularly since most of the information has already been written.

DOE-RL noted that the 200-CW-5 and 200-PW-1/3/6 RD/RA work plan is the final RD/RA (M-016-125). DOE-RL stated that a majority of the work has been self-performed this year, and CHPRC will take over the work next year. EPA noted that the challenge will be negotiating a schedule for the work. DOE-RL agreed with EPA's comment. DOE-RL noted that the wells installed for U-Plant Area pump and treat will be feeding the uranium system at 200 West Area, and will include the iodine injection wells. The uranium wells are expected to be completed this fiscal year, and installation of the iodine injection wells will carry over into next fiscal year.

DOE-RL reported that M-024-58G, negotiate annual well installation schedule/install wells was on schedule as of the end of March 2014, and discussion of well commitments was initiated and a notification letter was sent to Ecology at the end of May 2014. DOE-RL noted that M-024-65-T01 was completed to conclude discussion of well commitments, and notification was sent to Ecology in the same letter as 58G. DOE-RL indicated that there is agreement on the list of wells for the next three years, and the package should be transmitted to Ecology within two weeks. It was noted that the five closure plans under M-037-02 will be transmitted to Ecology next week, and Ecology has indicated they will not be considered viable closure plans.

EPA initiated a discussion on the RD/RA work plan for 200-PW-1/3/6. EPA stated that there is a disagreement with DOE-RL regarding the vadose zone carbon tetrachloride. EPA indicated that there is a large area south of Z-9 that needs to be investigated to determine whether there is a mass of carbon tetrachloride in the vadose zone. EPA stated its expectation is that the work plan DOE-RL submits will include work scope (boreholes) to perform that investigation work. DOE-RL responded that it will ensure the work scope is included in the work plan.

Planned Activities Next 6 Months:

100-N Area – Ecology inquired about the status of injection into the apatite barrier. DOE-RL responded that there is an issue with completing the cultural resources review, and the window for completing the high water stage injection has passed. DOE-RL is considering whether to go forward with part of the injection this August during the low water stage, and then pick up the wells that need the high water stage next summer. Ecology asked about the status of the cultural resources approval. DOE-RL responded that development of an MOA with the Yakama tribe is the issue. DOE-RL noted that efficiencies with mobilizing and remobilizing several times to accommodate the issue need to be considered. EPA reiterated the point that DOE-RL has chosen the most difficult avenue to address the cultural resource review process, and it is not something that DOE-RL has to do.

200-IS-1 – Ecology stated the understanding is that the parties are working on the scope of IS-1 and will be conducting some mini Data Quality Objectives (DQOs) and developing SAPs.

200-IS-1 - Ecology noted that those activities were not listed in today's handout. DOE-RL responded that those activities are still planned.

EPA stated that it fundamentally disagrees with a lot of DOE-RL's planned work scope on the Central Plateau milestones in the 2016 to 2020 time period. EPA indicated that the work scope would realistically fall in the 2020 to 2025 time frame, and the parties need to discuss when all the RI/FS investigations will happen so that new dates can be negotiated. EPA expressed the intent to hold those discussions before the milestones are missed, which translates into the 2015 work scope. DOE-RL responded that a letter is being drafted to formally identify that the milestones are at risk and to kick off discussions on the path forward. It was noted that there has been public interest in those milestones and there will likely need to be a round of public meetings. EPA stated that these are one set of milestones it will give relief to DOE-RL.

Tri-Party Agreement Quarterly Milestone Review

G-19-14

| <u>Name</u> | <u>Organization</u> |
|-----------------------------|---------------------------|
| <u>SAHID C SMITH</u> | <u>DOE-RL</u> |
| <u>Christina Ellwood</u> | <u>DOE-RL</u> |
| <u>Nancy Ware</u> | <u>Ecology</u> |
| <u>DM Butler</u> | <u>MSA TPA</u> |
| <u>Belinda Brown</u> | <u>ECY NWP</u> |
| <u>Andrea Pagnano</u> | <u>ECY NWP</u> |
| <u>Ken WELSH</u> | <u>ECY NWP</u> |
| <u>Michael Turner</u> | <u>MSA</u> |
| <u>MARK MCKENNA</u> | <u>MSA</u> |
| <u>Gordon Dover</u> | <u>WCH</u> |
| <u>Scott Sax</u> | <u>WCH</u> |
| <u>Theresa Howell</u> | <u>WCH</u> |
| <u>Jeb Blackburn</u> | <u>WCH</u> |
| <u>Regena Williamson</u> | <u>WCH</u> |
| <u>Ellen Jagan</u> | <u>DOE</u> |
| <u>Heather John</u> | <u>ECY NWP</u> |
| <u>Lorna Dittmer</u> | <u>CHARC</u> |
| <u>Roger Quintaro</u> | <u>DOE-RL</u> |
| <u>Jon C. Peschong</u> | <u>DOE-RL</u> |
| <u> </u> | <u> </u> |

Tri-Party Agreement Quarterly Milestone Review

6-19-14

| <u>Name</u> | <u>Organization</u> |
|------------------------|-----------------------------|
| <u>ROB PIRRO</u> | <u>MSA/TSPA</u> |
| <u>Kathy Knox</u> | <u>Knox Court Reporting</u> |
| <u>John Price</u> | <u>Ecology</u> |
| <u>Shelley Ciment</u> | <u>DOE</u> |
| <u>Fon Skinnolund</u> | <u>Ecology</u> |
| <u>Nina Menard</u> | <u>Ecy</u> |
| <u>Rick Bond</u> | <u>Ecy</u> |
| <u>Dennis Faulk</u> | <u>EPA</u> |
| <u>Heather John</u> | <u>Ecy</u> |
| <u>Deborah Snydton</u> | <u>Ecy</u> |
| <u>Elis Eberlein</u> | <u>Ecy</u> |
| <u>Michael Collins</u> | <u>DOE</u> |
| <u>Michael Cline</u> | <u>DOE</u> |
| <u>Al Farabee</u> | <u>DOE</u> |
| <u>Steven Lowe</u> | <u>Ecology</u> |
| <u>Bayan Foray</u> | <u>DOE</u> |
| <u> </u> | <u> </u> |



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Soil and Groundwater Remediation Project Milestone Review

M-015, M-016, M-024, M-037, M-085

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

Second Quarter FY2014
June 16, 2014



Accomplishments – 2nd Quarter 2014

(January – March 2014)

➤ **Completed TPA Interim Milestone M-015-76**

Install additional well monitoring network as specified in revised 100-BC-1, 100-BC-2 and 100-BC-5 RI/FS Work Plan/SAP

Due February 28, 2014 (completed February 13, 2014)



Well drilling at 100-BC-5, supporting early completion of TPA milestone M-15-76.



Accomplishments – 2nd Quarter 2014

(January – March 2014)

100-D/H

- DOE is reviewing the Decisional Draft of the RD/RA Work Plan, Monitoring Plan, Operations and Maintenance Plan.

100-K

- Completed seven well realignments supporting river protection and Cr(VI) mass removal.

100-NR-2

- Submitted the draft Rev. 1 RD/RA Work Plan for Ecology review and approval.

300 Area

- DOE is reviewing the Decisional Draft of the Integrated RD/RA Work Plan.



Installing new water level transmitter in a 100 Area well



Accomplishments – 2nd Quarter 2014

(January – March 2014)

200-IS-1/200-WA-1/200-SW-2

- *Initiated coordination with regulatory agencies regarding the Central Plateau Principles and the associated impacts and coordination for the work plans.*

200-UP-1

- *Remedial design of the uranium extraction and treatment system was initiated. Located 2 extraction wells and an RFP was issued for the long-lead procurement of an uranium treatment train.*

200-DV-1

- *Removed 19,284 gallons of effluent from the transient perched water zone, including extraction of:*
 - *7.7 kilograms of uranium*
 - *34.6 kilograms of nitrates*
 - *2.4x10⁹ pCi of Tc-99*



Drilling at 200-DV-1 well into the transient perched water zone



Accomplishments – 2nd Quarter 2014

(January – March 2014)

River Corridor and Central Plateau Groundwater

- *Effluent concentrations at all pump & treatment facilities continue to exceed the goals for contaminant removal established in the applicable ROD/IROD*
- *Pump and treatment facilities pumped an average of 3,705 gpm*
- *Treated 462.8 million gallons of groundwater*
- *Removed 13,655 kg (30,104 lb) of contaminants from the groundwater*

Drilling

- *3 wells drilled (200-DV-1 transient perched water well and two 100-K Area wells)*

Sampling

- *3,615 groundwater samples collected*
- *6,040 analyses performed*



Accomplishments – 2nd Quarter 2014 (January – March 2014)



Function testing of the HydraSleeve sampler



Function testing of no/low flow snap sampling passive samplers



Tri-Party Agreement



U.S. DEPARTMENT OF
ENERGY



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Milestone Summary (through FY15)

| TPA Number | Milestone or Target Date | Milestone/Target Title | Status |
|-----------------|--------------------------|---|--------------------|
| M-015-00 | | Complete RI/FS (or RFI/CMS & RI/FS) Process for All Non-Tank Farm Operable Units Except for Canyon/Associated Past Practice Waste Site Operable Units Covered in M-85-00 | |
| M-015-76 | 2/28/14 | Install additional wells monitoring network as specified in revised 100-BC-1,2 and 5 RI/FS Work Plan/SAP | COMPLETE |
| 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-015-113 | 2/28/14 | Submit Draft B 200-SW-2 RFI/CMS/RI/FS Work Plan to Ecology Including Schedule | DISPUTE RESOLUTION |
| M-015-388 | 10/30/14 | Submit Revised FS Report & Proposed Plan for CW-1, CW-3, OA-1 to EPA | TO BE MISSED |
| M-015-110A | 3/31/15 | Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology | ON SCHEDULE |
| M-015-21A | 6/30/15 | Submit 200-BP-5 and 200-PO-1 OU FS Report and PP(s) to Ecology | TO BE MISSED |
| M-015-92A | 6/30/15 | Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology | TO BE MISSED |
| M-015-110B | 9/30/15 | Submit CMS/FS Report & Proposed Plan/Proposed Corrective Action Decision for 200-DV-1 OU to Ecology | TO BE MISSED |
| M-016-00 | | Complete Well Installations with RCRA/CERCLA Requirements | |
| 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 | 9/30/15 | Complete Installation of Wells for U-Plant Area P&T per 200-UP-1 RD/RA Work Plan | ON SCHEDULE |



Milestone Summary (cont.)

| TPA Number | Milestone or Target Date | Milestone/Target Title | Status |
|-----------------|--------------------------|---|-------------|
| M-024-00 | | Complete Well Installations with RCRA/CERCLA Requirements | |
| M-024-58G | 6/1/14 | Initiate Discussions of Well Commitments | ON SCHEDULE |
| M-024-65-T01 | 8/1/14 | Conclude Discussions of Well Commitments | ON SCHEDULE |
| M-024-65 | 12/31/14 | Complete the Construction of all Wells Identified in M-24-11-01 | ON SCHEDULE |
| M-024-58H | 6/1/15 | Initiate Discussions of Well Commitments | ON SCHEDULE |
| M-024-66-T01 | 8/1/15 | Conclude Discussions of Well Commitments | ON SCHEDULE |
| M-037 | | RCRA Closures | |
| M-037-02 | 6/30/14 | Submit Revised Closure Plans to support TSD closure for five (5) TSD Units: | ON SCHEDULE |
| M-085-00 | | Complete Response Actions for the Canyon Facilities/Associated Past Practice Waste Sites, other Tier 1 CP Facilities not covered by existing milestones, and Tier 2 CP Facilities | |
| 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-1, and 200-CR-1 OUs and a schedule for submittal of the RAWP for 224B and 224T Plutonium Concentration Facilities. | ON SCHEDULE |



Project Baseline Performance

Contract to date through March 2013

| WBS 030/ 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) |
|--|---------------------------------------|--|--|------------------------------|-----------------------------|-----------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
| RL-0030.O1 RL 30 Operations | 610.3 | 610.7 | 592.1 | 0.3 | 0.1 | 18.6 | 3.0 | 1,170.3 | 1,148.4 | 21.8 |
| Numbers are rounded to the nearest \$0.1M. | | | | | | | | | | |



Planned Activities

Next 6 months (April- September 2014)

100 K Area

- *Install 4 new injection wells*

100 F/IU Area

- *Complete public review and issue Rev. 0 of the RI/FS & PP*
- *Support final ROD preparation*

100 D&H Area

- *Issue Rev. 0 of the RI/FS & PP*
- *Complete 100-D-100 characterization efforts*

100 N Area

- *Plan and initiate aquifer injection of 1,000 ft of apatite barrier (at risk)*

300 Area

- *Submit Integrated RD/RA Work Plan, Draft A to EPA for review*



Planned Activities

Next 6 months (April – September 2014)

200-IS-1/200-WA-1/200-SW-2

- *Resolve Inner Area Principles; continue to incorporate results into Central Plateau work plans.*

200-ZP-1

- *Install 4 new injection wells to increase pump & treatment system throughput*
- *Issue annual pump & treatment facility performance report*

200-UP-1

- *Complete design for the uranium treatment system*
- *Complete uranium well pipeline construction and initiate radiological treatment building modifications*
- *Initiate activities for wells related to I-129 plume*

200-DV-1

- *Submit Draft A RI/FS Work Plan for Ecology review*
- *Complete Action Memorandum and initiate Removal Action Work Plan for B Area transient perched water*

200 PW-1

- *Perform soil vapor extraction sampling to determine whether to operate SVE unit*

M-037-02 TSD Closure Plans are on schedule





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Central Plateau Remediation Project RL-40 Milestone Review

M-016-00, M-085-00

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

Second Quarter FY2014
June 19, 2014



U.S. DEPARTMENT OF
ENERGY



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Accomplishments

2nd Quarter FY 2014

TPA Milestones

- *None completed during 2nd Quarter FY2014*

Complete Waste Information Data Services (WIDS) Site Surveillances

- *Completed 200W Tri-Annual Area Waste Information Data System (WIDS) site surveillance*
- *Completed Quarterly Treatment, Storage and Disposal (TSD) WIDS site surveillances*
- *Completed Annual 400, 600, and 1100 Areas Outdoor Waste Site Surveillances*



Accomplishments

2nd Quarter FY 2014

Minimum Safe/Maintenance Activities

- Completed site prep for Plutonium Uranium Extraction Plant (PUREX) Tank 11 asbestos abatement



PUREX Tank 11 asbestos abatement



Accomplishments

2nd Quarter FY 2014

Minimum Safe/Maintenance Activities (cont.)

- *Completed monthly preventive maintenance activities and radiological facility surveillances*
- *Completed WIDS site housekeeping (weed spraying and hot tumbleweed removal)*



Spraying weeds at WIDS sites



Accomplishments

2nd Quarter FY 2014

Minimum Safe/Maintenance Activities (cont.)

- *Completed B Plant Annual Stack Flow Tests*
- *Repaired PUREX vacuum pump 3*



B Plant Stack



Milestone Status

| TPA Number | Milestone Due Date | Milestone Title | Status |
|---|--------------------|--|-------------|
| M-085-00 RL 40 – Complete Response Actions for the Canyon Facilities/Associated Past Practice Waste Sites, other Tier 1 CP Facilities not covered by existing milestones, and Tier 2 CP Facilities | | | |
| M-085-01 | 9/30/22 | Submit Change Package to establish date for major Milestone M-85-00 | ON SCHEDULE |
| M-016-00 RL 40 – Complete Remedial Actions for all Non-Tank Farm and Non-Canyon Operable Units | | | |
| M-016-200A | 9/30/17 | Complete U Plant Canyon (221-U) Demolition in accordance w/ RD/RAWP | AT RISK |
| M-016-200B | 9/30/21 | Complete U Plant Canyon (221-U) Barrier Construction in accordance w/ the RD/RAWP | AT RISK |
| M-037 – TSD Closure Activities | | | |
| M-037-11 | 9/30/16 | Complete Closure Requirements for 216-B-3 & 216-S-10 | AT RISK |
| M-037-10 | 9/30/20 | Complete Closure Requirements for 207-A S 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 |



Project Baseline Performance

Contract to date (through March 2014)

| 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 (\$) | Schedule Variance (%) | Cost Variance (\$) | Cost Variance (%) | Budget at Completion (BAC) | Estimate at Completion (EAC) | Variance at Completion (VAC) |
|--|--|--|--|------------------------------|-----------------------------|--------------------------|-------------------------|----------------------------------|------------------------------------|------------------------------------|
| Total | 96.7 | 95.8 | 84.8 | -1.0 | -1.0 | 11.0 | 11.5 | 206.3 | 193.5 | 12.8 |

Numbers are rounded to the nearest \$0.1M.



Planned Activities

April – September 2014

- *Perform 241CX, U Plant, PUREX, REDOX, 224T Annual Surveillances*
- *Pump PUREX Condensate Tanks*
- *Perform Abandoned Steam Line Surveillance*
- *Perform Bi-Annual Potential Asbestos Containing Material (PACM) WIDS Site Surveillance (16 sites)*
- *Initiate Construction Camp Demo*
- *Complete PUREX Tank 11 Asbestos Clean-Up*
- *Investigate PUREX N Cell contamination (Calciner glovebox)*
- *Initiate steam line repair/removal*





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

June 19, 2014



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

Accomplishments – January-March 2014

- M-091-03 – Project Management Plan (PMP)
 - CY 2012 PMP – Revision as revised to incorporate Ecology comments approved 05/05/14
 - CY 2013 PMP – Being prepared
- M-026-01 – Land Disposal Restrictions (LDR) Report
 - CY 2013 Summary Report submitted 04/07/14
 - Ecology comments received 05/23/14
- M-091-44S – Large-Package and Remote Handled Transuranic Mixed (TRUM) Waste
 - 235 of 300 cubic meters repackaged toward 09/30/18 interim milestone



EM *Environmental Management*

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Milestone Status

- M-091-03 Project Management Plan – Submit CY 2013 plan by 06/30/14
- M-091-40 Retrievably Stored Waste (CH) – Complete the retrieval and designation of CH Retrievable Stored Waste in burial grounds by 09/30/16
 - Target: Retrieve 250 m³ by 09/30/14 – No waste will be retrieved in FY 2014
 - There were no substrate sampling and analysis results for January-March 2014
- M-091-41 Retrievably Stored Waste (RH) – Complete non-caisson retrieval by 09/30/16 – No waste to be retrieved in FY 2014
- M-091-42 MLLW (CH, small container) – Complete treatment by 09/30/17
 - No M-091-42 waste treated in FY 2014
 - 20 m³ are in aboveground storage



EM Environmental Management

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Milestone Status

- M-091-43 MLLW (RH and large container) – Complete treatment by 09/30/17
 - No M-091-43 waste treated in FY 2014
 - 49 m³ are in aboveground storage
- M-091-44S TRUM Waste (RH and large container) – Certify 300 m³ by 09/30/18
 - 191 of 300 cubic meters repackaged toward 09/30/18 interim milestone
 - 44 m³ additional repackaged at offsite TSDF
 - 6,860 m³ in aboveground storage (includes newly generated waste)
- M-091-46 TRUM waste (CH, small container) – Complete the certification of small CH TRUM waste
 - Target: Retrieve 125 m³ by 09/30/14 – About two cubic meters to be shipped for repackaging in June 2014
 - 2,700 m³ are in aboveground storage (includes newly-generated waste)



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

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Department of Energy – Richland Operations Office

Project Baseline Performance

Contract to Date through May 2014

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 | 52,392.6 | 52,632.9 | 50,307.6 | 0.4% | 4.4% |
| Waste Receiving and Packaging Facility (WRAP) | 34,124.4 | 32,124.4 | 36,438.2 | 0.0% | -6.8% |
| T Plant | 62,070.1 | 62,084.8 | 52,797.7 | 0.0% | 15.0% |
| MLLW Treatment | 43,182.5 | 43,182.5 | 37,200.1 | 0.0% | 13.9% |
| TRU Waste Retrieval | 99,991.6 | 99,991.6 | 112,263.1 | 0.0% | -12.3% |
| TRU Waste Repackaging | 48,859.2 | 49,114.0 | 44,629.2 | 0.5% | 9.1% |
| TRU Waste Disposition | 30,934.4 | 30,934.4 | 22,345.0 | 0.0% | 27.8% |
| Project Management | 94,832.8 | 94,801.1 | 87,978.3 | 0.0% | 7.2% |



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

Actions Planned for Next Six Months

- Repackage additional M-091-44 waste
- Continue surveillance and maintenance activities at CWC, WRAP, T Plant, and the LLBGs
- Continue supporting permitting and compliance activities
- Continue to work with Ecology on agreed order implementation and permit issues
- Submit Quarterly Burial Ground Sampling Results
- CY 2013 PMP – Submit plan by 06/30/14
- CY 2013 LDR Report – Resolve Ecology comments
- Evaluating options to move forward with Waste Encapsulation and Storage Facility (WESF) Interim Dry Storage Project





CH2MHILL
Plateau Remediation Company



PFP Closure Project

TPA Milestone Series: M-083



Bryan Foley, Federal Project Director
Rick Bond, Ecology Project Manager
2nd Quarter FY14
June 19, 2014



U.S. DEPARTMENT OF
ENERGY

One Culture. One Team.

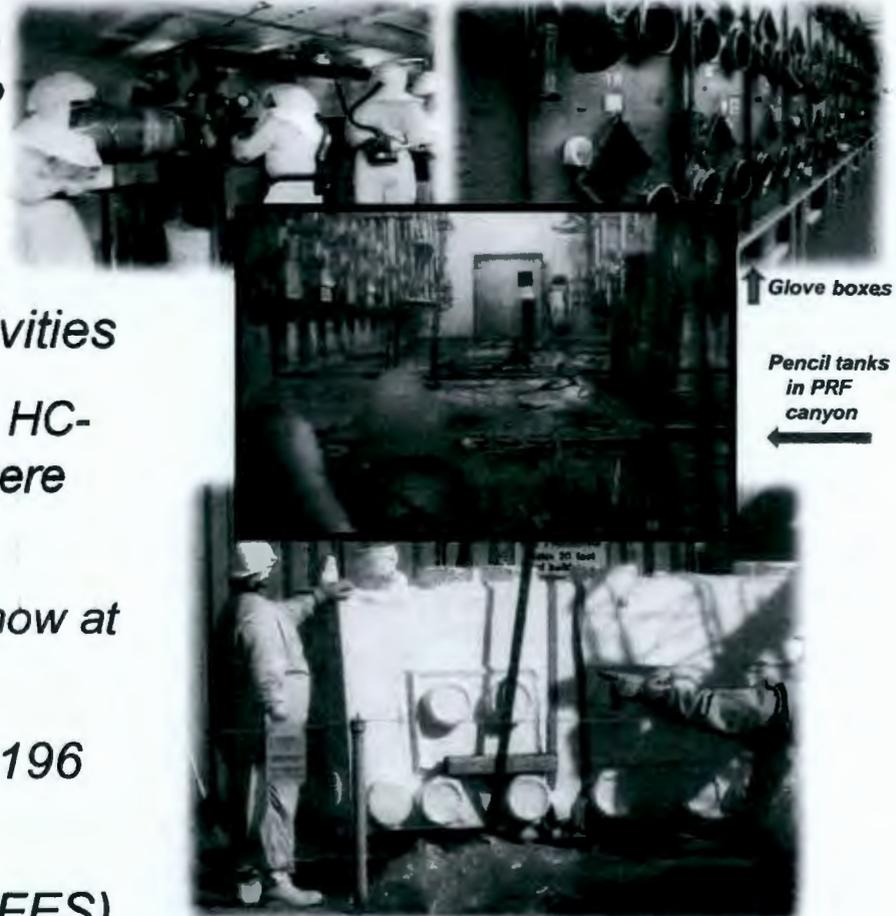
Milestone Summary

| TPA Milestone | Due Date | Status | Milestone Description |
|---------------|----------|-------------|--|
| M-083-24-T01 | 09/30/16 | On Schedule | Submit Rv. 0 of the PFP Complex S&M Plan to Ecology |
| M-083-44 | 09/30/15 | At Risk | Complete transition of 234-5Z & -ZA, 243-Z, 291-Z and 291-Z-1 buildings to support decommission, deactivation, and preparation for dismantlement of the above grade portions of these PFP facilities |
| M-083-00A | 09/30/16 | At Risk | Complete PFP Facility Transition & Selected Disposition Activities |

Accomplishments

2nd Quarter FY 2014

- *No significant safety issues during the second quarter of FY2014 on the PFP Closure project*
- *Continued 234-5Z Backside Rooms & RMA/RMC Glovebox deactivation activities*
 - *Gloveboxes (GB) HC-17DC, HC-17P, HC-17SBB and the Room 169 HA-40F were isolated from the E4 ventilation.*
 - *Total gloveboxes removed to date is now at 86 percent complete (205 of 238).*
- *Removed 10 pencil tank units; 130 of 196 completed to date*
- *Realigned Field Execution Schedule (FES)*



↑ Glove boxes

← Pencil tanks in PRF canyon

Preparing glovebox HA-40F for shipment to Perma-Fix Northwest

Accomplishments

2nd Quarter FY 2014

- Received breathing air compressors for 242-Z facility and training underway to use PremAire™ system.
- Completed investigation in A-Labs for electrical intrusions in shared wall with the 242-Z McClusky Room.
- Certified 4 of 8 trailers 'Cold & Dark'
- Submitted Enhanced Maintenance Plan (EMP) documentation for exhaust fans to continue deactivation and demolition preparation activities
- Installed temporary facility air compressors to reduce liquid effluent

Air Compressor and Supply Bottles for PremAire system ↓



↑ Breathing Air System Generator Modules

Training on the PremAire respirator and suit ahead of entries into 242-Z facility planned for early June →



Project Baseline Performance

Contract to Date (through March 2014)

| 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 | \$673,774.6 | \$652,646.4 | \$685,509.5 | (\$21,128.2) | -3.1% | (\$32,863.1) | -5% | \$933,407.4 | \$950,666.4 | (\$17,259.1) |
| ARRA | \$287,891.5 | \$287,891.5 | \$297,586.7 | \$0 | 0% | (\$9,695.2) | -3.4% | \$287,891.5 | \$297,586.7 | (\$9,695.2) |
| Base | \$385,883.1 | \$364,754.9 | \$387,922.8 | (\$21,128.2) | -5.5% | (\$23,167.9) | -6.4% | \$645,515.9 | \$653,079.7 | (\$7,563.9) |

Issues/Challenges

Regulatory Issues

- *None*

Non-Regulatory Issues

- *Implementing Beryllium procedure, Revision 2a*
- *Aligning Documented Safety Analysis (DSA) to step out plan*
- *Retention of skilled workforce with PFP-specific experience*
- *Integrating D&D workers with NCOs; optimizing the skill mix while working within the Collective Bargaining Agreement*



Crews will begin demolishing support structures this summer



Performing characterization/coupon sampling in the duct level of PFP

Planned Activities

April – September 2014

234-5Z RMA/RMC Lines

- *Prepare and perform foam demonstration*
- *Continue glovebox removal (7 forecasted for removal by end of September)*

236-Z PRF

- *Continue size reducing pencil tanks (31 units forecasted for removal by end of September)*
- *Initiate a second shift (backshift) to accelerate size reduction of the pencil tanks*
- *Continue cleanout of Phase I PRF gallery gloveboxes*

242-Z

- *Initiate entries into 242-Z Facility*

Establish Demolition Footprint

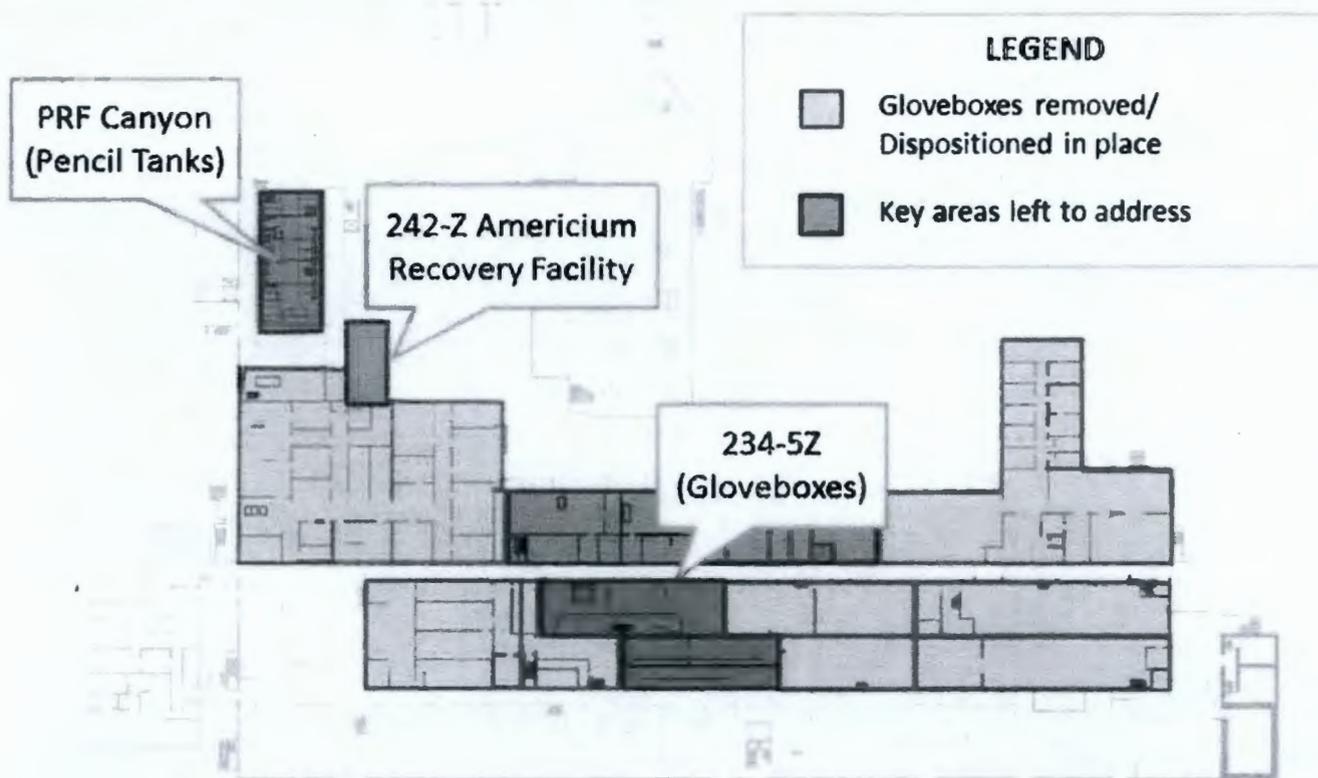
- *Complete demolition of 8 ancillary infrastructure buildings currently located in the demolition footprint*

Draft RAWP to be provided to Ecology for Review/Approval



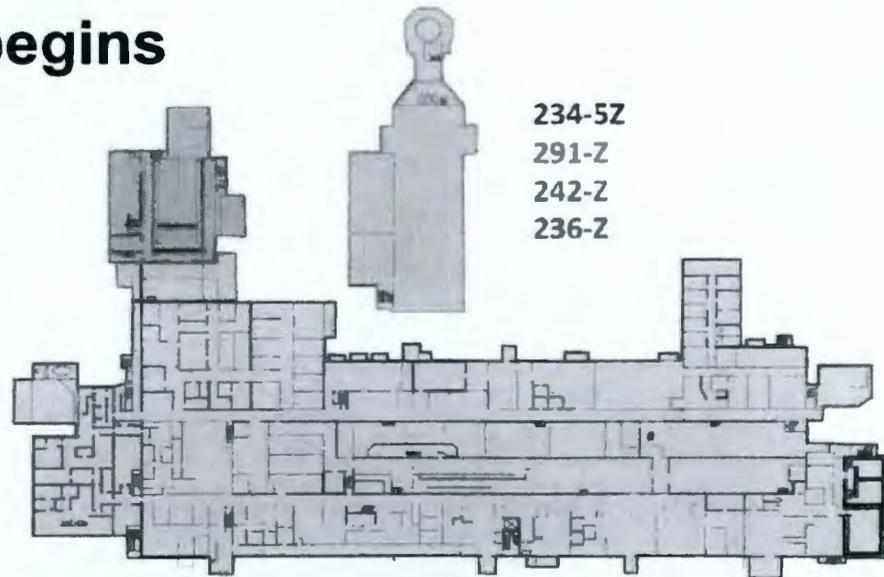
PFP Deactivation Progress

Overall Deactivation is 71% complete



PFP Timeline

- **December 2014: Last glove box cleaned out & stabilized**
- **January 2015: Demo prep begins**
 - *Grouting, drain line removal, asbestos abatement*
- **Spring 2016: Demolition begins**
 - *March: 234-5Z begins*
 - *May: 291-Z begins*
 - *June: 242-Z begins*
 - *July: 236-Z begins*



Hanford Lifecycle Scope, Schedule and Cost Report

TPA Milestone: M-036-01D Quarterly Performance Report

June 19, 2014

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 2014 Lifecycle Report was the fourth Lifecycle Report to be prepared. Its delivery met the annual milestone.



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 2014 Lifecycle Report.



SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. Completed incorporation of comments into the Final 2014 Lifecycle Report which was delivered to DOE on December 16, 2013.
2. Discussed cost-saving measures for the 2015 Lifecycle Report at two TPA Milestone Managers meetings (April and June, 2014).
3. The TPA Milestone Managers agreed that the 2015 Lifecycle Report would not include an alternatives analysis.



SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

1. The TPA Milestone Managers reviewed comments received on the 2014 Lifecycle Report and are incorporating changes into the 2015 Lifecycle Report.
2. DOE will develop the planning case to be presented in the 2015 Lifecycle Report by June 23, 2014.
3. MSA will deliver a draft Lifecycle Report to DOE by August 31, 2014
4. DOE will submit its review comments on the draft 2015 Lifecycle Report back to MSA by October 31, 2014



OTHER SIGNIFICANT ISSUES

BUDGET/COST STATUS

No major issues identified.

ISSUES

No major issues identified.

NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

No major issues identified.





CH2MHILL
Plateau Remediation Company



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

TPA Milestone Series: M-016 and M-093

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

Second Quarter FY 2014
June 19, 2014



Accomplishments

2nd Quarter 2014

Sludge Treatment Project Phase 1- Removal of Containerized Sludge

- **Begin Sludge Removal from 105-KW Fuel Storage Basin**

(M-016-175, due 9/30/14 – To Be Missed)

- *Completed remaining backfill activities around the Annex building*
- *Completed delivery and installation of mezzanine structural steel*
- *Continued fabrication of structural steel members for low, intermediate and high bays*
- *Continued concrete surface repairs*



KW ANNEX: Installed Mezzanine Steel



KW ANNEX: Structural Concrete Repairs



Accomplishments

2nd Quarter 2014

Sludge Treatment Project Phase 1- Removal of Containerized Sludge *(cont.)*

- **Begin Sludge Removal from 105-KW Fuel Storage Basin**
(M-016-175, due 9/30/14 – To Be Missed)
 - *Continued the Integrated Process Optimization Demonstration (IPOD) at MASF to demonstrate operability of sludge retrieval system*
 - *IPOD confirms improvements identified in TRL-6 testing & optimizes process prior to equipment procurement and installation at KW Basin*



STSC core insertion



Accomplishments

2nd Quarter 2014

Sludge Treatment Project *(cont.)*

Engineered Container Retrieval and Transfer System (ECRTS)

- *Approved Critical Decision 2/3 and Preliminary Design Safety Analysis (PDSA) package*
- *Completed design to modify T Plant cells to receive Sludge Transportation and Storage Containers*



Accomplishments

2nd Quarter 2014

- **100 KE Reactor Surveillance and Maintenance**
 - *Awarded 105KE Roof Repair Contract to Watts Construction*
- **100 K Minimum Safe Activities**
 - *Continued planning for asbestos abatement in 165KE*
 - *Maintained 100K Area Minimum Safe Configuration*
 - ❖ *Performed radiological and waste site surveillances*



Milestone Status

| TPA Number | Due Date | Description | Status |
|------------|------------|---|--------------|
| M-016-175 | 09/30/14 | Begin Sludge Removal from 105-KW Fuel Storage Basin | To Be Missed |
| M-016-173 | 03/31/15 | Select K Basin Sludge Treatment and Packaging Technology and Propose New Interim Sludge Treatment and Packaging Milestones | At Risk |
| M-016-143 | 12/31/15 | Complete the Interim Response Actions for the 100 K Area Within the Perimeter Boundary and to the River for Phase 2 Actions | At Risk |
| M-016-176 | 12/31/15 | Complete Sludge Removal from 105-KW Fuel Storage Basin | At Risk |
| M-016-178 | 12/31/15 | Initiate Deactivation for 105-KW Fuel Storage Basin | At Risk |
| M-093-28 | 12/31/2015 | Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage | On Schedule |
| M-016-181 | 09/30/19 | Complete Deactivation, Demolition and Removal of 105-KW Fuel Storage Basin | At Risk |
| M-016-186 | 12/31/19 | Initiate Soil Remediation Under 105-KW Fuel Storage Basin | At Risk |
| M-093-27 | 12/31/19 | Complete 105-KE and 105-KW Reactor Interim Safe Storage in Accordance with the RAWP | On Schedule |
| M-016-00C | 12/31/20 | Complete All Response Actions in the 100 K Area | At Risk ✓ |



Project Baseline Performance

Contract to date through March 2014

| 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 | 408.6 | 407.8 | 417.4 | -0.8 | -9.6 | 690.9 | 699.6 | -8.7 | 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 | 305.3 | 305.4 | 280.9 | 0.1 | 24.5 | 392.9 | 369.2 | 23.8 | 1.0 | 1.09 |

Numbers are rounded to the nearest \$0.1M



Planned Activities

April – September 2014

Sludge Treatment Project

- **Engineered Container Retrieval and Transfer System (ECRTS)**
 - *Complete design to modify T Plant cells to receive Sludge Transportation and Storage Containers*
 - *Complete the Integrated Process Optimization Demonstration at MASF*
 - *Work technical initiatives to optimize ECRTS process design, improve system safety, and reduce life cycle costs*
 - *Begin ECRTS process equipment procurements*
 - *Award the contract for the fabrication of Sludge Transport Storage Containers*



Planned Activities

April – September 2014

Sludge Treatment Project

- **Engineered Container Retrieval and Transfer System (ECRTS)**
 - *Complete design to modify T Plant cells to receive Sludge Transportation and Storage Containers*
 - *Complete the Integrated Process Optimization Demonstration at MASF*
 - *Work technical initiatives to optimize ECRTS process design, improve system safety, and reduce life cycle costs*
 - *Begin ECRTS process equipment procurements*
 - *Award the contract for the fabrication of Sludge Transport Storage Containers*



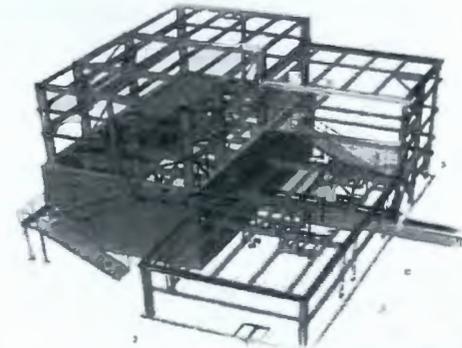
Planned Activities

April – September 2014 (cont.)

Sludge Treatment Project (cont.)

- **KW Fuel Storage Basin Modified Annex Construction**

- *Complete installation of Annex structural concrete*
- *Complete erection of Annex structural steel*
- *Initiate Annex roof and wall panel installation*
- *Initiate electrical and mechanical contractor mobilization and equipment installation*



KW Annex: Steel Model

100K Minimum Safe Activities

- *Continue 165KE asbestos abatement planning*
- *Maintain 100K Area Minimum Safe Configuration*



Planned Activities

April – September 2014 (cont.)

100K D4

- *Initiate planning for 100KE Headhouse demolition and remediation*
- *Complete work package preparation for utility isolation at MO-293 and MO-442 demolition*
- *100KE Characterization Boreholes*
 - ❖ *Finalize site preparation/backfill requirements necessary for safe drilling*
 - ❖ *Complete Hazard Review Board workshop*

105KE Reactor Surveillance and Maintenance

- *Perform 105KE Reactor Building five-year surveillance (pending resource availability)*
- *Perform Presumed Asbestos-Containing Material (PACM) Waste Information Data System (WIDS) site surveillance*
- *Complete 105KE and 105KW Roof Repair*



RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: January - March 2014



Tri-Party Agreement

River Corridor Milestones:

M-16

M-89

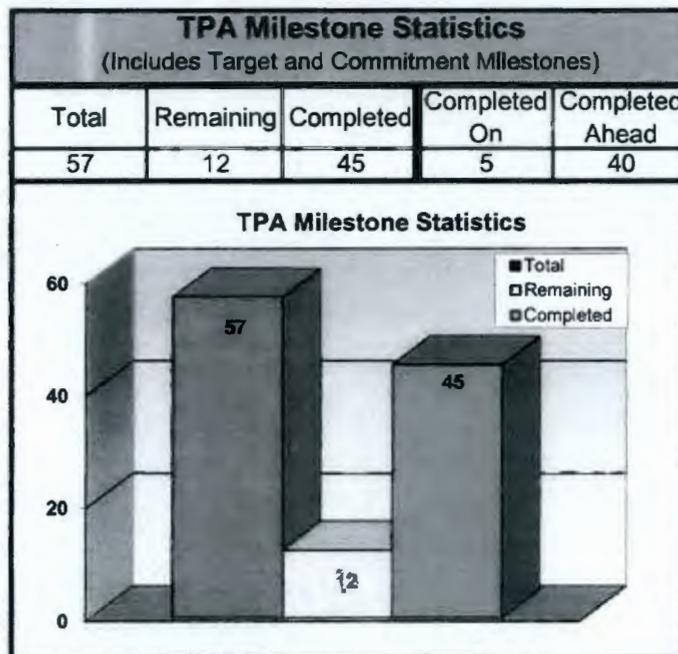
M-92

M-94

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

June 19, 2014

Protecting the Columbia River



Quarterly Summary (January – March 2014)

- **Completed TPA Milestones:**
 - M-16-75 - Initiate Substantial and Continuous Remediation on 309 Facility Dedicated Radioactive Liquid Waste Sewer (300 RLWS) and Associated Process Sewer Systems (due 3/31/14) - 1/31/14
 - M-16-145 - Complete 100-K Area Interim Response Actions for 12 Sites (due 3/31/14) - 2/26/14
 - M-16-146 - Complete 100-B/C Area Interim Response Actions at 100-C-7 and 100-C-7:1 Waste Sites (due 3/31/14) - 3/11/14
 - M-16-163 - Complete Interim Response Actions (Excluding Backfill and Revegetation) for 58 100-N Area Waste Sites and Initiate Operations of In-Situ Bioremediation Systems for UPR-100-N-42, in accordance with approved 100-N RDR/RAWP (due 3/31/15) - 1/29/14
 - M-92-16 - Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste and Materials (due 9/30/15) - 2/17/14
- **Approved Change Requests:**
 - None for this reporting period.

RIVER CORRIDOR CLOSURE PROJECT

For Period: January - March 2014

| TPA MS No. | Compliance Date | Title | Status | Comments |
|------------|-----------------|-------|--------|----------|
|------------|-----------------|-------|--------|----------|

M-16 Milestones - Remedial Action (milestones through 12/31/2015)

| | | | | |
|----------|----------|--|-------------|-----------------------------|
| M-16-75 | 03/31/14 | Initiate Substantial and Continuous Remediation on the 309 Facility Dedicated Radioactive Liquid Waste Sewer (300 RLWS) and Associated Process Sewer Systems | Complete | Milestone completed 1/31/14 |
| M-16-145 | 03/31/14 | Complete 100-K Area Interim Response Actions for Following Sites: 128-K-2, 100-K-78, 600-29, 100-K-84, 100-K-86, 100-K-89, 100-K-92, 100-K-87, 100-K-91, 100-K-93, 100-K-95, and 118-K-1 | Complete | Milestone completed 2/26/14 |
| M-16-146 | 03/31/14 | Complete 100-B/C Area Interim Response Actions at 100-C-7 and 100-C-7:1 Waste Sites | Complete | Milestone completed 3/11/14 |
| M-16-149 | 03/31/15 | 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 | |
| M-16-159 | 03/31/15 | Complete Interim Response Actions for Following 100-D and 100-H Area Sites: 100-D-14, 100-D-56, 100-D-62, 100-D-63, 100-D-65, 100-D-66, 100-D-71, 100-D-73, 100-D-75:2, 100-D-76, 100-D-78, 100-D-80, 100-D-81, 100-D-96, 100-D-101, 100-D-102, 116-DR-3, 118-D-6:4, 1607-D1, 1607-D2, 100-H-37, 100-H-43, 100-H-48, 100-H-52, 100-H-57 | On schedule | |

RIVER CORRIDOR CLOSURE PROJECT

For Period: January - March 2014

| TPA MS No. | Compliance Date | Title | Status | Comments |
|--|-----------------|---|-------------|-----------------------------|
| M-16 Milestones - Remedial Action (milestones through 12/31/2015) (Continued) | | | | |
| M-16-163 | 03/31/15 | Complete Interim Response Actions (Excluding Backfill and Revegetation) for Following 58 100-N Area Waste Sites : 100-N-6, 100-N-16, 100-N-22, 100-N-23, 100-N-24, 100-N-25, 100-N-26, 100-N-29, 100-N-30, 100-N-31, 100-N-32, 100-N-36, 100-N-37, 100-N-38, 100-N-57, 100-N-59, 100-N-60, 100-N-61, 100-N-63, 100-N-64, 116-N-2, 116-N-4, 118-N-1, 120-N-3, 120-N-7, 124-N-1, 124-N-2, 124-N-3, 124-N-9, 128-N-1, 1908-N, 1908-NE, UPR-100-N-1, UPR-100-N-2, UPR-100-N-3, UPR-100-N-4, UPR-100-N-5, UPR-100-N-6, UPR-100-N-7, UPR-100-N-8, UPR-100-N-9, UPR-100-N-10, UPR-100-N-12, UPR-100-N-13, UPR-100-N-14, UPR-100-N-19, UPR-100-N-21, UPR-100-N-22, UPR-100-N-23, UPR-100-N-25, UPR-100-N-26, UPR-100-N-29, UPR-100-N-30, UPR-100-N-31, UPR-100-N-32, UPR-100-N-36, UPR-100-N-39, UPR-100-N-43. Initiate Operations of In-Situ Bioremediation Systems for UPR-100-N-42, in accordance with approved 100-N RDR/RAWP | Complete | Milestone completed 1/29/14 |
| 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 | |

M-89 Milestone - 324 Bldg. Non-Permitted MW Units Closure (milestones through 12/31/2015)

| | | | | |
|-------------|----------|---|-------------|--|
| M-89-06-T01 | 09/30/14 | Submit 30% Design of Closure of Mixed Waste Units in 324 Bldg. REC B-Cell, REC D-Cell, and High Level Vault and Low Level Vault That Includes a Schedule to Complete the Design | On schedule | |
|-------------|----------|---|-------------|--|

RIVER CORRIDOR CLOSURE PROJECT

For Period: January - March 2014

| TPA MS No. | Compliance Date | Title | Status | Comments |
|--|-----------------|--|-------------|-----------------------------|
| M-92 Milestone - 300 Area Special Case Waste | | | | |
| M-92-16 | 09/30/15 | Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste and Materials | Complete | Milestone completed 2/17/14 |
| M-94 Milestones - 300 Area Surplus Facilities Disposition (milestones through 12/31/2015) | | | | |
| M-94-10 | 09/30/15 | Complete Disposition of 300 Area Surplus Facilities Identified in the Removal Action Work Plan(s) for the 300 Area Facilities Exclusive of the 324 Bldg. and its Ancillary Buildings and Structure | On schedule | |

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment

- Completed revegetation of 100-K Area waste sites and interim reclassification of 118-K-1, satisfying completion of TPA milestone M-16-145.
- Completed removal of 100-K exit items, which completes all field work in 100-K Area.
- Completed revegetation and closeout documentation process at 100-C-7:1, satisfying completion of TPA milestone M-16-146.
- Completed TPA milestone M-16-163 at 100-N Area.
- Received approval of 15 waste site closure documents.
- Awarded subcontract for unexploded ordnance (UXO) site on Gable Mountain.



Removing Gravel at 100-K Area Container Transfer Area



Above-Grade Demolition of 3790 Badge House

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

- Awarded subcontract for remediation of 300-296 waste site under B-Cell.

M-92 – 300 Area Special Case Waste

- Completed 340 Waste Neutralization Facility Vault lift, loading, and transported to ERDF for disposal, satisfying completion of TPA milestone M-92-16.

M-94 – 300 Area Surplus Facilities Disposition

- Completed loadout of 326 Material Sciences Laboratory.
- Completed above-grade demolition of 3790 Badge House.
- Completed 3730 large hot cell removal and disposal at ERDF.

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

ERDF

- For period January - March, disposed ~ 268,000 tons of waste; bringing total to ~ 15.8 million tons disposed in ERDF.
- Received 309 Plutonium Recycle Test Reactor and 340 Waste Neutralization Facility Vault.
- Received 3730 large hot cell.
- Began treatment of 100-D Area chromium-contaminated waste.



Placement of 340 Vault in ERDF

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Mobilize team to work UXO site and associated 100-IU-2/6 remedial actions sites.
- Continue loadout campaign of land disposal restricted (LDR) waste from 100-D Area for treatment and disposal at ERDF.

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

- Maintain minimum safe conditions until subcontractor submits detailed plan for remediation of 300-296 waste site under B-Cell.

M-94 – 300 Area Surplus Facilities Disposition

- Complete below-grade demolition/loadout of 3790 Badge House and 3730 Gamma Irradiation Facility.
- Complete facility transitions and cold/dark isolations for 351 Substation complex, 342 complex, and 310 complex.

ERDF

- Continue to treat and dispose LDR waste from 100-D Area.
- Prepare to receive 309-TW-3 and moderator tanks from 300 Area.
- Increase transportation and disposal production to support FR and D4 Projects increased quantities to accelerate closure.

PERFORMANCE SUMMARY
Contract Inception (8/27/05) through March 2014
 (\$K)

| | IPB | | CUMULATIVE | | | Previous Quarter Comparison | | | |
|--------------------------|------------------|------------------|------------------|------------------|------------------|-----------------------------|----------------|----------------|----------------|
| | BAC | EAC | BCWS | BCWP | ACWP | SCHEDULE VAR (\$) | | COST VAR (\$) | |
| | | | | | | Dec | Mar | Dec | Mar |
| D4 | 628,353 | 630,231 | 620,443 | 603,954 | 539,615 | -19,971 | -16,489 | 72,187 | 64,339 |
| Reactor ISS | 75,883 | 81,785 | 75,883 | 75,883 | 81,785 | 0 | 0 | -5,894 | -5,902 |
| Field Remediation | 819,128 | 957,902 | 726,884 | 687,462 | 669,363 | -38,398 | -39,423 | 23,504 | 18,099 |
| Waste Operations | 592,700 | 484,935 | 525,114 | 545,159 | 433,036 | 26,239 | 20,045 | 109,599 | 112,123 |
| ESFC | 76,700 | 60,866 | 75,592 | 72,069 | 57,258 | -4,584 | -3,523 | 14,042 | 14,810 |
| Mission/General Support | 365,922 | 376,966 | 355,538 | 355,538 | 329,077 | 0 | 0 | 30,773 | 26,460 |
| Transition | 3,979 | 3,747 | 3,979 | 3,979 | 3,747 | 0 | 0 | 232 | 232 |
| Contingency | | | | | | 0 | 0 | 0 | 0 |
| TARGET COST TOTAL | 2,562,666 | 2,596,432 | 2,383,433 | 2,344,043 | 2,113,881 | -36,715 | -39,391 | 244,442 | 230,162 |

Schedule Variance (PMB): (\$39,391K)

- Variance primarily associated with 100-N Area remediation delays, as well as delayed start of remaining waste sites around the 309 Building. Additional contributors are remediation delays at 100-D and 100-H. 618-11 negative schedule variance is due to funding constraints.
- Delay in D4 due to waste site discovered beneath 324 Building.
- Negative variance offset significantly by ERDF transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): \$230,162K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; and in utility charges and surveillance and maintenance activities. Favorable cost variance is somewhat offset by delays in 309 and 340 Buildings due to technical challenges.
- 100-B/C, 100-D, 100-F, and 100 IU-2/6 remediation underruns due to favorable subcontract rates, largely offset by project support costs at most active dig sites.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, and construction.

RCC Issues

M-16-149 - Obtaining cultural clearance at six sites

- **Issue:** Startup of remediation at the 600-326, 600-329, 600-332, 600-334:2, 600-349, and 600-358 waste sites has been significantly delayed due to their location in a Traditional Cultural Property (TCP) and Historical Archaeological District, as well as requests for additional consultation by the affected Tribal Nations.

Status: RL proposes to submit a draft change to remove these six waste sites from the scope of M-16-149 and include them in the scope of M-16-00A. RL will continue to evaluate acceptable alternatives to remediation at several of these delayed sites.

WORKING ORP Key Documents List – June 2014

| Milestone Title | Milestone Tie | Document | TPA Milestone Due Date (if applicable) ¹ | ORP Delivery to Regulators Date ² | Anticipated Regulatory Review Completion Date ³ | Final Completion Date ⁴ | DOE-ORP Lead | Contractor Lead | Ecology Lead | Comments/Issues |
|---|--|--|---|--|--|------------------------------------|---------------|-----------------|--|---|
| ORP and Ecology will review the reports generated in M-045-22-T01, -T02, and -T03 and determine whether to continue with soil desiccation/contaminant removal testing and other interim measures (TPA MS M-045-22). | M-045-22-T01 | Submit Results of VZ Characterization of 241-TX to ECY | 09/30/14 | | | | D. Hildebrand | S. Eberlein | J. Lyon | |
| | M-045-22-T02 | Submit Results of VZ Characterization of 241-U to ECY | 04/30/14 | 02/20/14 | N/A | 02/20/14 | D. Hildebrand | S. Eberlein | J. Lyon | • Sent to ECY on 02/20/14 via ORP Letter 14-TF-0015. |
| | M-045-22-T03 | Submit SX Soil Desiccation/Contaminate Removal Tech Results to ECY | 07/31/14 | | | | D. Hildebrand | S. Eberlein | J. Lyon | |
| Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA-C | Supports M-045-61 | WMA-C PA Initial Model Run Data Package | | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Feeds input for M-045-61 and all Closure Plans |
| | | WMA-C PA Initial Document | | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Feeds input for M-045-61 and all Closure Plans |
| | | WMA-C Characterization Summary 2013 | | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Feeds input for M-045-61 and all Closure Plans |
| M-045-61 | Phase 2 RFI/CMS Report for WMA-C | 12/31/14 | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level. | |
| Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA-C. | M-045-62 | Phase 2 Corrective Measures Implementation Work Plan for WMA-C | 06/30/15 | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level. |
| CD 08-5085-FVS Appendix C | CD | Request to Forego 3 rd Technology in Tank 241-C-101 | N/A | 02/18/14 | | | C. Kemp | S. Eberlein | J. Lyon | • ORP provided this request to forego to ECY for their review on 02/18/14 via ORP Letter 14-TF-0012. |
| Submit RDR after WMA-C SST Retrieval Completion Certifications | M-045-86 | RDR for SST C-110, embedded TPA milestone M-045-86H | 01/29/15 | | | | C. Kemp | S. Eberlein | J. Lyon | • CD Retrieval Completion Certification for SST C-110 sent to ECY on 01/29/14 via ORP Letter 14-TF-0007. |
| Prior to beginning construction & at least one year before construction is to be complete, DOE will submit to Ecology a final design & monitoring plan for each interim barrier. | M-045-92O | Future Barrier Design 3 | 06/30/15 | 06/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | • ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/15 dependent on discussions per M-045-22. |
| | M-045-92P | Future Barrier Design 4 | 06/30/16 | 06/30/16 | | | C. Kemp | S. Eberlein | J. Lyon | • ORP/ECY TPA Change Package M-45-12-04 modified this to a due date of 06/30/16 dependent on discussions per M-045-22. |
| M-045-91 Interim Milestones and Target Dates for SST Integrity Implementing the Expert Panel's Recommendations | M-045-91G-T03 | Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks | 10/31/14 | 10/31/14 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91F-T04 | Provide Report on 100-Series SSTs as having Leaked in RPP-32681 | 12/26/14 | 12/26/14 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91G-T04 | Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks | 01/30/15 | 01/30/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91B-T01 | Provide Ecology report on the Concrete Core from TankA-106 or alt | 01/31/15 | 01/31/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91F-T02 | Provide Report of Liner Failures for SSTs | 03/31/15 | 03/31/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91F | Provide Summary Conclusions Report on Leak Integrity | 06/30/15 | 06/30/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91G | Provide Summary Conclusions Report of AOR for SSTs | 07/28/15 | 07/28/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| | M-045-91H | Submit Change Pckg (if necessary) to est. Additional Milestones | 07/31/15 | 07/31/15 | | | J. Johnson | R. Gregory | J. Lyon | |
| M-045-91I | Provide IQRPE Certification of SSTs Structural Integrity | 09/30/18 | 09/30/18 | | | J. Johnson | R. Gregory | J. Lyon | | |
| Waste Supplemental Treatment Report | M-062-40ZZ | Submit One Time Tank Waste Supplemental Treatment Tech. Report | 10/31/14 | | | | S. Pfaff | C. Burrows | D. McDonald | • ORP letter 14-TF-0052, signed 05/06/14 provides discussion on ORP/ECY agreement that ORP will not submit the one-time report • Ecology provided response letter 14-NWP-110 on 05/29/14 |
| Complete final design and submit RCRA Part B Permit Modification Request | M-062-31-T01 | RCRA Part B Permit Modification--Final Design | 04/30/16 | 04/30/16 | | | S. Pfaff | | D. McDonald | |

¹ "TPA Milestone Due Dates" are the direct regulatory drivers for completion of milestones.

² "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators. ORP Delivery to Regulators Dates may be earlier than TPA Milestone Due Dates if work is completed ahead of schedule.

³ The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

⁴ "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

Bold red = DOE submittal within the next 90 days Bold green = document is under initial ECY Regulatory Review **Bold black = document under comment/review response or other actions** Bold blue = document is completed

WORKING ORP Key Documents List – June 2014

| Topic Areas ¹ | Document | ORP Delivery to Regulators Date ¹ | Anticipated Regulatory Review Completion Date ² | Final Completion Date ³ | DOE-ORP Lead | Contractor Lead | Regulator Lead | Comments/Issues |
|---|--|--|--|------------------------------------|---------------|-----------------|----------------|--|
| PERMIT DOCUMENTS | Tier 1 Framework Closure Plan Update | 09/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | • Tier 1, 2, 3 Submittal is associated with M-045-S2, due 09/30/2015. This MS was reported as To Be Missed in the March 2013 TPA PMM. Discussions ongoing at the PM level. |
| | Tier 2 WMA-C Closure Plan | TBD | | | C. Kemp | S. Eberlein | J. Lyon | |
| | All Remaining Closure Plans for WMA-C | 09/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | |
| | WMA-C Closure Conceptual Design | TBD | | | C. Kemp | S. Eberlein | J. Lyon | |
| | Tier 3 Closure Plans for Tanks Already Received | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Due 180-day post EIS |
| | Tier 3 Closure Plans for Additional Tanks | 09/30/15 | | | C. Kemp | S. Eberlein | J. Lyon | • Several Dates in out years |
| | WMA-C Closure Design | TBD | | | C. Kemp | S. Eberlein | J. Lyon | • Final dates not yet determined; provides basis for the Tier 2 Closure Plan |
| | Supplemental Treatment Technology Notice of Construction | TBD | | | L. Huffman | | J. Lyon | |
| | Submit Part B Permit Application for Selected Supplemental Treatment Technology | TBD | | | L. Huffman | | J. Lyon | |
| Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application | TBD | | | L. Huffman | | J. Lyon | | |
| IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC) | TBD | | | T. Fletcher | | J. Lyon | | |
| OTHER DOCUMENTS | Submit Categorical TOC HIA | TBD | | | | | J. Lyon | |
| | Temporary Waste Transfer Line Management Program Plan (also known as Hose-In-Hose Transfer Lines (HIHTL) Management Plan), RPP-12711 | TBD | | | C. Kemp | | J. Alzheimer | • To be made into a TPA Primary Document with submittal of revision 7 per a TPA Project Managers Agreement, signed 01/22/2013 |
| | Single-Shell Tank System Leak Detection and Monitoring Functions and Requirements Document, RPP-9937 | TBD | | | J. Johnson | | J. Alzheimer | • Discussions are underway for a number of revisions to this document |
| | WMA Quarterly Groundwater Reports | Ongoing Quarterly | | | D. Hildebrand | | J. Lyon | • Ecology SST counterparts have been added to this distribution list as of March 2013 • ORP continues to provide reports to Ecology |

AOR = Analysis of Record
 DOE = U.S. Department of Energy.
 Ecology = Washington State Department of Ecology.
 EIS = environmental impact statement.
 N/A = not applicable.
 ORP = U.S. Department of Energy, Office of River Protection.
 PM = project manager.
 PMM = project manager's meeting.

RCRA = Resource Conservation and Recovery Act.
 RDR = Retrieval Data Report
 RFI/CMS = RCRA Facility Investigation/Corrective Measures Study.
 SST = single-shell tank.
 TBD = to be determined.
 TPA = Tri-Party Agreement.
 WMA-C = Waste Management Area C.
 WRPS = Washington River Protection Solutions LLC.

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Well done! This completion has been recorded.

| Training Completion Record | | | |
|----------------------------|------------------|--------------|------------------------------------|
| ID Number: | H0614343 | Name: | Faulk, Mahallie Rae |
| Course Number: | 00008A | Title: | Security Refresher Briefing |
| Completion Date: | 7/31/2014 | Charge Code: | NA |

Please give us your course evaluation.

Use the mouse or the "Tab" key to move to data entry fields on the form.

- | | |
|--|---|
| <p><input checked="" type="radio"/> How satisfied were you with the CONTENT of this course (not required)?</p> <ul style="list-style-type: none"> <input type="radio"/> Very satisfied. <input type="radio"/> Somewhat satisfied. <input type="radio"/> Neutral (no opinion). <input type="radio"/> Somewhat dissatisfied. <input type="radio"/> Very dissatisfied. | <p><input checked="" type="radio"/> How satisfied were you with the DELIVERY of this course (not required)?</p> <ul style="list-style-type: none"> <input type="radio"/> Very satisfied. <input type="radio"/> Somewhat satisfied. <input type="radio"/> Neutral (no opinion). <input type="radio"/> Somewhat dissatisfied. <input type="radio"/> Very dissatisfied. |
|--|---|

Enter any comments you wish to make (not required).

- I request a response to this comment
- Please fix this problem. Use for broken link, misspelled word, etc.

| | |
|---|---|
| <input type="button" value="Print Record"/> | 1. If you wish, you may print this page for your record. |
| <input type="button" value="Submit"/> | 2. Please click "Submit" to record your evaluation. |