River Corridor/Central Plateau
Tri-Party Agreement Milestone Review
Meeting Minutes
September 18, 2014

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

Milestone Status:

M-16-149 - DOE-RL stated that this milestone continues to be at risk due to issues associated with six cultural resource sites. DOE-RL reported that it continues to evaluate the alternatives for all six sites, and it is working closely with EPA. Ecology asked about the progress for getting resolution on the cultural issues. DOE-RL responded that there are some important decisions being made on a case-by-case basis for each waste site. DOE-RL cited an example of one site that is a septic system and the issue of determining how to deal with the site. Another site appears to contain many artifacts, which poses the decision regarding the value of cleanup versus the historical value. DOE-RL noted that the process has been very slow, but pointed out that there are six sites remaining out of the 30 sites that have been completed under the milestone.

M-16-159 – DOE-RL stated that this milestone is on schedule, and noted that the 100-D-100, 100-D-30 and 100-D-104 waste sites are not a part of this milestone.

M-16-69 – DOE-RL reported that this milestone will probably move into an at risk discussion in the near future. DOE-RL stated that there was an increase in the scope of work in the area, and the additional scope will be included, but the revegetation window in the November through February time frame will be missed.

M-89-06-T01 – DOE-RL stated that the 30 percent design is anticipated for submittal to Ecology and EPA by the end of this week.

Significant Accomplishments – For Last 3 Months:

M-16 – DOE-RL reported that the backfill activities at the 100-N Area are nearing completion. DOE-RL noted that there were more anomalies than expected in the unexploded ordnance (UXO) site, and removal of the area of concern items has been completed.

ERDF – DOE-RL noted that the feasibility study to support macroencapsulation at ERDF was submitted to EPA.

River Corridor Closure Issues:

Obtaining Backfill Concurrence at 100-D Area Chromium Sites – DOE-RL stated that it is ready to start backfill at the 100-D-100, 100-D-30/104 sites, and it is waiting for Ecology to provide concurrence on the backfill form. DOE-RL stated that discussions are ongoing with Ecology, and noted that the issue needs to be resolved so that backfilling can begin; otherwise a cost will be incurred associated with demobilization and remobilization efforts. DOE-RL added that there is also the concern about losing the equipment to other industries and the difficulty of getting the equipment back. Ecology stated the understanding that there is still contamination in the area and that the contamination is to the groundwater. Ecology added that the more soil contamination that DOE-RL can remove will aid with the pump and treat system not having to run long-term. Ecology indicated that it is not clear if the additional contamination is outside the scope of work or

if additional soil removal is more efficient than further groundwater treatment. DOE-RL responded that it is seeking clarification from Ecology on what is regulatory-driven versus the cost benefit decision. DOE-RL stated that the intent is to use a cost-effective approach for resolving the issue.

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

Accomplishments – 3rd Quarter 2014:

Sludge Treatment Project Phase 1 - Removal of Containerized Sludge - DOE-RL noted that the milestone to begin sludge removal from the 105-KW fuel storage basin by September 30, 2014 (M-016-175) is to be missed. DOE-RL has committed to provide EPA a new proposed date for sludge removal, and the proposal will be submitted by September 30, 2014. DOE-RL stated that a date will be provided based on a certain set of funding assumptions, and there is a lot of uncertainty with the FY15 budget. DOE-RL stated that the FY15 budget, which starts October 1, 2014, will be based on a continuing resolution (CR). DOE-RL added that Congress is in the process of making sludge a line item in the budget, which means that funds cannot be moved in and out of that line item without congressional approval. DOE-RL stated that there is enough money in the site-level budget, but currently it is about 20 million dollars short on sludge in the line item, and efforts are under way to get more money from the budget moved over to sludge. DOE-RL suggested waiting to see if the line item issue is resolved, and indicated that it would probably be asking for more time until the FY15 budget is decided. DOE-RL noted that if the CR remains in place for the whole fiscal year, there would be no issue with sludge as a line item, although the CR currently only goes through mid-December 2014. EPA stated that its response to DOE-RL's proposed date will be what is set out in the Tri-Party Agreement (TPA).

DOE-RL reported on the progress regarding the sludge annex building, noting that since the end of June 2014, the installation of all the wall panels for the steel portion of the building has been completed. DOE-RL added that construction of the annex shell is expected to be completed by early October 2014, which includes the building foundation, the four walls and the roof.

DOE-RL reported that a change was made to the final design of the Integrated Process Optimization Demonstration (IPOD) by switching out the wiring from multiple copper wires to an ethernet type of cable called a multi-plexer wiring (MUX wiring). The MUX wiring will save time with troubleshooting and construction and installation of the system in the K West basin. DOE-RL stated that the MUX system was successfully demonstrated as part of the IPOD.

100K Waste Sites – DOE-RL reported that planning for the borehole [to characterize the reactor plume] work continues, and the field work is expected to begin as early as October 2014, and to complete the work next summer 2015.

Planned Activities July – December 2014:

Engineered Container Retrieval and Transfer System (ECRTS) - DOE-RL stated that the contractor will be submitting an update to the Preliminary Documented Safety Analysis (PDSA) for the ECRTS system to implement DOE's nuclear safety initiatives. DOE-RL indicated that it

expects to gain several cost savings from implementation of the initiatives. DOE-RL anticipates there would be a cost savings by reducing the number of sludge transport storage containers (STSCs) from about 24 to 18, and also a cost savings in terms of the time needed for sludge operations. DOE-RL also expects to be able to remove a control in the current DSA that controls access to the river during sludge processing. DOE-RL stated that it would be a very difficult control to implement. DOE-RL noted that the procurement activities for the ECRTS system will continue into FY15, but will be dependent on the funding scenario.

T Plant RCRA Permitting Schedule – DOE-RL provided a schedule for T Plant RCRA permitting at the request of Ecology during a previous TPA quarterly review, and noted that this topic was not included in today's handout. DOE-RL stated that the schedule is based on its current understanding of RCRA permitting on site. The schedule shows RCRA permit activities starting in January 2015, with an estimated completion date of October 2015. DOE-RL stated that based on current planned assumptions, the modifications to T Plant are not expected to begin until FY17. DOE-RL stated that the work to clear the cells and some deck areas in T Plant is planned to start in FY16, and the work would be considered facility maintenance and not a modification to T Plant. DOE-RL noted that a meeting was held in July 2014 with Ecology and EPA, and the topic of RCRA permitting at T Plant was discussed. DOE-RL agreed to schedule a meeting with Ecology to discuss the schedule time line for RCRA permitting at T Plant.

EPA clarified that DOE-RL had not made a decision on the regulatory path forward for the sludge at T Plant, but was just providing a permitting schedule. Ecology responded that from a regulatory standpoint, a path forward has not been decided, and that EPA would be included in that discussion. Ecology noted that sludge storage at T Plant is a RCRA permitting issue since T Plant is a permitted facility. Ecology added that a number of people believe the sludge falls under the Toxics Substance Control Act (TSCA), and that a TSCA risk-based approval is needed. Ecology stated that a meeting was held a month ago to discuss RCRA permitting for T Plant, and an EPA representative is reviewing the sludge proposal from a TSCA perspective. DOE-RL asked if the Tri-Parties needed to come to a decision on the regulatory path before discussing the schedule in detail. Ecology agreed that it needs to be discussed, and stated that all of the options need to be considered when the parties meet.

100K D4 – DOE-RL noted that the two mobile offices (MO-293 and MO-442) will be removed as part of the 100K head house area facility demolition.

100K Waste Sites – DOE-RL reported that the sampling instruction has been completed for the 100KE boreholes.

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

DOE-RL reported that the annual lifecycle report is on schedule for submittal by January 31, 2015, meeting the intent of the milestone. DOE-RL noted that the contractor responsible for the lifecycle report (MSA), delivered the draft report ahead of schedule and the report is in the review cycle. DOE-RL stated that there are no issues associated with the budget, performance or schedule. Ecology referred to DOE-RL's comment about meeting the intent of the milestone, and stated that there is some disagreement about whether the lifecycle report is meeting the milestone.

Ecology specifically referred to footnotes entered in the 2014 lifecycle report by MSA, which indicate that the parties are waiting for ORP to provide information regarding the annual cost for storing immobilized high level waste (IHLW). Ecology noted that there is a milestone under M-090-00 that states Ecology is to be informed of the annual cost for storing IHLW, and the lifecycle report defers to Rev. 4 of ORP's System Plan for any details. Ecology pointed out that System Plan 4 is the last approved baseline, but Rev. 4 has been supplanted by Rev. 6, and Rev. 7 is now being issued.

Ecology expressed the concern that DOE-RL is indicating there are no issues with the 2015 lifecycle report, since the understanding is that ORP will continue to support System Plan 4 in the lifecycle report. Ecology stated that it has not been able to ensure what the real costs are, which is the intent of the lifecycle report. Ecology also expressed concern there is no forward planning for the storage of IHLW. Ecology stated that Yucca Mountain will not be the geological repository for the IHLW by 2024. Ecology added another concern, noting that ORP has not been attending the lifecycle report project manager meetings (PMMs) and providing information.

Ecology stated its expectation is that the cost of IHLW will be in the 2015 lifecycle report, and if the cost is not included, the lifecycle report will be considered not compliant with the milestone. DOE-RL responded that it had a discussion with ORP yesterday (9/17/14), and System Plan 4 is the official baseline of record and it includes two years of IHLW storage. DOE-RL stated that the two years of storage was based on the assumption that Yucca Mountain would be in existence after two years, and that DOE-RL has not been informed otherwise. Ecology responded that its position is that DOE-RL's assumption would not be considered plausible, and the cost of IHLW has to be in the lifecycle report. Ecology added that there is a TPA milestone for the IHLW facility, which is also a basis for including the milestone and cost information in the lifecycle report. Ecology noted that DOE-RL has been informed during the lifecycle report PMMs that the information needs to be in the report. DOE-RL stated that it has to use the official baseline for the lifecycle report and the assumption of two years of IHLW storage. DOE-RL added that the uncertainty of Yucca Mountain is included in the risk profile in the lifecycle report. DOE-RL stated that more discussions are needed. Ecology suggested that DOE-RL could provide a different explanation, since the expectation that Yucca Mountain will open in 2024 is not a plausible assumption. Ecology stated for the record, we're expecting the cost of IHLW to be in the report next year and if that cost is not in there, the report is not compliant.

PFP Closure Project - TPA Milestone M-083

Milestone Summary (Third Quarter FY14) - DOE-RL noted that the demolition ready milestone (M-083-44) and the slab-on-grade milestone (M-083-00A) continue to be at risk. DOE-RL referred to the improvement effort associated with the field execution schedule (FES) that was reported on during the last quarterly meeting, and stated that as part of that effort a risk analysis against the 2016 slab-on-grade milestone was completed. DOE-RL stated that the forecast for completing M-083-00A, based on the revised FES, is November 2016, with 50 percent confidence that the date is the middle of September 2017, and 80 percent confidence of October 2017. DOE-RL reported that one of the top risks that are currently driving the dates is the documented safety analysis (DSA) approval. DOE-RL stated that the contractor has spent the past year working on a complete revision to the DSA that will reflect the path forward in terms of accident

scenarios and D&D nuclear safety processes. DOE-RL noted that the current nuclear safety documentation still reflects PFP as operational (e. g. continues to reflect accident analysis with plutonium production). DOE-RL stated that stepping out of the safety criteria at PFP in the revised DSA for the combined ventilation system, criticality monitoring system, and the fire system are critical to proceeding with demolition inside PFP. The revised DSA is scheduled to be submitted to DOE-RL for review on December 1, 2014, with a target date of March 11, 2015 for approval.

DOE-RL reported that another risk to meeting the milestones is associated with the removal of four gloveboxes (out of 238 gloveboxes at PFP) that are part of the current capital asset project. DOE-RL stated that the four gloveboxes have gone through the D&D effort, but the gram level of plutonium inside the gloveboxes poses a challenge to getting them out the door to the Waste Isolation Pilot Plant (WIPP) or to PermaFix for size-reduction. The gloveboxes need to be cut into smaller pieces, reducing the amount of plutonium to achieve limits for safe and compliant waste packaging in the proper shipping container.

DOE-RL stated that the contractor is evaluating different kinds of void-fill technologies to stabilize the gloveboxes, not only for cutting up the glovebox or removing hot spots, but to help stabilize movement of the plutonium, which is by nature very flighty. DOE-RL stated that the void-fill technology would be used to fill the gloveboxes with foam or with a grout that has adhesives, reducing the risk for potential contamination events during size-reduction. DOE-RL noted that a demonstration using the void-fill technology was conducted in the past week, filling a glovebox with foam and cutting up the glovebox with saws. DOE-RL indicated that the size-reduction of the gloveboxes will likely have to be done in-situ, and it will be done in a tent that will be erected inside 234-5Z. DOE-RL pointed out that another risk associated with the four gloveboxes would be the recovery time if a contamination event occurred. DOE-RL noted that the PFP workers are extremely well-trained and have improved their capabilities to recover from contamination events.

DOE-RL stated that the Plutonium Reclamation Facility (PRF), where the pencil tanks are being cut up, is on the critical path for getting to slab-on-grade. One of the mitigating actions being taken by the contractor is to cut up the pencil tanks that are hanging on the walls inside the canyon at PRF. DOE-RL noted that the canyon crane was out of operation for about 14 days recently, and the contractor is exploring the contingency of cutting up the pencil tanks on the floor if it is determined that the crane needs to be abandoned. Another contingency being considered by the contractor if the crane is abandoned is bringing in a team through the south canyon airlock to clean the floor of PRF. There are floor pans connected throughout the bottom of the floor, and they will need to be cleaned off and then a layer of grout put on top of the floor to make it even.

DOE-RL stated that a continuing opportunity at PFP is utilizing overtime and craft alignment, as well as effective use of respirator time. DOE-RL noted that PFP is effectively managing a process of notifying workers when overtime opportunities are available in an effort to recover schedule. DOE-RL stated that craft alignment continues to be a challenge, but the contractor is effectively managing the situation of integrating D&D workers with the rest of the PFP workers. The contractor holds daily briefings at 5:45 a.m. to allow the field work supervisors and the project managers to do their prejob briefings with the workers to maximize the time on the respirator.

DOE-RL noted that when workers are wearing a tight-fitting respirator, they have three hours on the respirator during the shift. Under the new collective bargaining agreement, workers are allowed four hours during the shift when they are wearing the new power air purifying respirator.

Accomplishments 3rd Quarter FY 2014 – DOE-RL noted that entry into 242-Z (McCluskey room) was made utilizing the new PremAire suit. The new suit will also be used in the contingent of entering PRF and working on the floor cleanout, and during the in-situ size-reduction inside of the tent in 234-5Z. DOE-RL reported that two administrative buildings and seven trailers around the perimeter of the PFP complex were removed during the past year, which will allow PFP to establish the demolition footprint for the vehicles moving in and around PFP during demolition.

Project Baseline Performance - DOE-RL stated that it continues to work closely with the contractor on the project performance since the cost and schedule performance has to improve to meet the September 2016 milestone date. The demister line incident that occurred earlier in the year and the recent 14-day crane outage were two of the main impacts to schedule performance.

Issues/Challenges - DOE-RL stated that efforts continue to gain efficiencies by getting the material at risk (MAR) out of the facility. DOE-RL noted that the issues associated with the DSA, evaluation of foaming agents, and aligning the D&D workers were previously discussed. DOE-RL stated that since the glove box work has been reduced to a handful of gloveboxes, the next major effort is in the duct level of PFP, where the ventilation system that fed the gloveboxes needs to be cleaned out and remediated. DOE-RL noted that there is pipe on top of pipe on top of ducting, and the contractor is addressing the challenge of determining how to remove the pipe and ducting in large segments and still remain within the DSA priorities.

Planned Activities Next 3 Months - DOE-RL expressed appreciation to Ecology and EPA for their support in getting the removal action work plan (RAWP) approved ahead of schedule. DOE-RL stated that the new RAWP replaces the two previous RAWPs for the PFP deactivation and the PFP ancillary facility demolition. The consolidated RAWP establishes the path forward to get to slab-on-grade.

PFP Timeline – DOE-RL noted that the contractor is still struggling to get the facility cold and dark during January-February 2016 so that demolition can begin in March 2016 in the 234-5Z facility. Ecology inquired about the funding levels with the continuing resolution (CR). DOE-RL responded that through December 2014, which is the current CR, there is enough cost and carryover from last year to continue with getting the work done for the first quarter of FY15. DOE-RL noted that if the CR continues, it will be based on the current year budget, which is better than the FY15 budget.

M-091/M-026 TPA Quarterly Milestone Review

Accomplishments – DOE-RL reported that 298 of 300 cubic meters have been repackaged under M-091-44S, which is due by 9/30/18. DOE-RL stated that another box was shipped last night, and within two to three weeks the 300 cubic meters will be completed. Ecology asked if the 300 cubic meters will be considered to be in a certifiable state but not CCP-certified. DOE-RL

responded that the 300 cubic meters will be certified per the TPA definition, and it will be certifiable through the CCP process.

Milestone Status - DOE-RL noted that no retrieval was done this year under milestones M-091-40 and M-091-41, and none is expected in 2015. DOE-RL noted that milestones M-091-42 and M-0-91-43 will likely not be met since they rely on waste coming out of retrieval. DOE-RL pointed out that there is currently very little waste in storage under milestones 42/43. Ecology stated that the milestones associated with retrieval have been identified as to be missed in the project manager meetings (PMMs). DOE-RL responded that some of the information from the PMMs should be tied into the quarterly report.

Project Baseline Performance – Ecology inquired about the cost of work performed for retrieval, since there has been no retrieval this year. DOE-RL responded that the table represents the contract-to-date starting in 2008. DOE-RL stated that an area under consideration for cost savings is the WRAP facility. DOE-RL noted that the shipping portion of WRAP needs to remain open, but other parts of WRAP are not needed near-term. DOE-RL has had discussions with the contractor about cleaning out some parts of WRAP and going to a cool and dim status. Ecology asked about the permanency of WRAP actions. DOE-RL responded that only selected portions of the equipment would be permanently shutdown and the gloveboxes were cited as an example of a permanent shutdown since they will not be used again. DOE-RL added that when the CCP team arrives on site, it will have a lot of the equipment available. DOE-RL stated that it plans to have discussions with Ecology regarding RCRA inspections. Ecology asked if DOE-RL is considering a permit modification. DOE-RL responded that the intent would be either a permit mod or to reach agreement on less inspection, which would result in cost savings that could be directed to other activities.

Ecology added that another related issue is the closure plans that have been submitted on the units that are inactive at T Plant and some of the other facilities. Ecology stated that part of the issue is the schedule for closure and the justification for the timeline on characterization. Ecology added that a result from inspections by EPA Region 10 is that EPA has been looking at the clock on some of the drums in storage. Ecology noted that it considers some of the waste streams to be covered by the Land Disposal Restrictions (LDR) report or by the Project Management Plan (PMP). Ecology stated that there needs to be discussion with DOE-RL regarding the schedules to complete closure and if the permit reflects enforceable schedules that can be pointed to in the TPA.

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

Milestone Status – Ecology inquired about the status of the TSD closure activities under M-037-10/11, noting that M-037-11 is at risk and there is no funding to initiate closure. Ecology stated that no closure plans have been approved, and asked about DOE-RL's path forward on these two milestones. DOE-RL stated that it will discuss Ecology's inquiry internally and then provide a response. EPA noted that the U Plant Canyon milestones under M-016 are at risk, even though there is a long amount of lead time, and the expectation is that the milestones will be met. DOE-RL responded that it is a matter of priorities, and that EPA's comment will be shared internally.

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

Accomplishments – 3rd Quarter (April - June 2014) - DOE-RL stated that there was a slight change to the M-024 package, and the integrated priority list will be met. DOE-RL noted that a few years ago, during the commitment to complete negotiations and set the priorities, an agreement was made to automatically sign up to make another commitment in three years, whether or not it was needed. DOE-RL pointed out that the field office has been tightly constrained by DOE-Headquarters about making new commitments, without discussing priorities, in an effort to mitigate the issue of having more commitments than funding. DOE-RL stated that if the parties hold to the commitment every three years, there will need to be negotiations and formal discussions regarding the priorities versus automatically signing up for another commitment.

200-IS-1/200-WA-1 – DOE-RL reported that two draft TPA change packages for Appendix C were submitted to EPA and Ecology a few days ago, and the packages are split into two sections. One section includes the waste sites that DOE-RL believes the Tri-Parties are all in agreement regarding their designation as CERCLA or RCRA waste sites. The other package is comprised of the waste sites that the Tri-Parties are not in agreement about the CERCLA or RCRA designation. DOE-RL attached a legal memorandum to the change packages that defines its interpretation of the regulations. DOE-RL noted that the change packages will be addressed during the Inter-Agency Management Integration Team (IAMIT) meeting immediately following this meeting.

200-UP-1 – DOE-RL reported that drilling is under way for the two extraction wells and the three injection wells. The injection wells are specific for retarding the migration of iodine-129 while technologies are being evaluated.

200-DV-1 - DOE-RL stated that the two new perched water extraction wells have been installed, but the plan is to not initiate extraction until a connection is made to the 200 West pump and treat (P&T) system. DOE-RL stated that an EE/CA is circulating, and it is anticipated that an action memorandum will be signed this month to allow the perched water to be sent to the 200 West P&T. DOE-RL noted that ETF is shut down for repairs, and although it is a robust system that can remove very complex solutions, the operational cost during the past couple years has been about three dollars per gallon. DOE-RL stated that the 200 West P&T system is currently running about 1 ½ cents per gallon, and it can accommodate the perched water once the uranium skid is in place, which is anticipated to be received this winter. DOE-RL noted that the perched water that is being pumped has been running between 20,000 and 100,000 parts per billion uranium. The two new wells were installed.

DOE-RL referred to the aquifer well that goes through the perched water area that the Tri-Parties had discussed about a year ago. DOE-RL stated that testing was done on the well, and it was concluded that the well was leaking perched water into the aquifer. The aquifer concentrations were below ten times the drinking water standards in parts of the aquifer well, as the perched water is running between 1,800 and 2,700 times drinking water standards. DOE-RL stated that the Tri-Parties agreed to decommission that aquifer well, and the replacement well was just drilled, although it isn't completed. A grab sample was taken from the perched water, and the samples

came back at 256,000 and 257,000 ppb. DOE-RL stated that the sampling of the perched water was increased a few months ago, and the concentrations can vary in a couple months from 100,000 back down to 20,000 ppb.

200 West Area Groundwater Treatment Facility – DOE-RL reported that during the process of hooking up the four injection wells, there was a technical problem with one of the completions. A camera was placed down the well, and one of the well casings had been pushed in during the completion and there was sand in the area. DOE-RL said that the well casing wasn't cracked and it was straightened out, with only one spot that showed where it had been twisted.

Sampling - DOE-RL stated that the decision was made to no longer maintain the onsite analytical laboratory capability, and the contractor has issued two new contracts for industrial hygiene sampling and analytical laboratory sampling. DOE-RL noted that there will be a substantial cost savings by not self-operating an onsite laboratory.

100-NR-2 Apatite Barrier – DOE-RL reported that the injections at the 100N apatite barrier have been held up, due to a cultural resource issue. DOE-RL stated that money had been allocated, the wells had been drilled, it had been verified that the equipment was working, and the work crews were prepped when the culturally sensitive area next to the apatite barrier was recently expanded by the tribes. DOE-RL stated that a Memorandum of Agreement (MOA) with the affected tribes is now needed, and the mitigating actions have to do with some surface remediation that was done earlier. The funds that were allocated in FY14 for the work were reallocated to high priority work and were still spent on remediation in FY14. Ecology inquired about the future for the apatite barrier. DOE-RL responded that the intent is to get through the cultural review and then move the work into FY15. Ecology noted that the cultural reviews have had issues recently, and asked if DOE-RL anticipated this review would also have a lot of issues. DOE-RL stated that its understanding is that the issues are not associated with artifacts, but that the wells will be left as either a passive system or as an active system in the future, creating an issue for the future that is not acceptable to the tribes. DOE-RL noted that there will be mitigating actions that require funding, and it is anticipated that it will cost one to three million dollars. Oregon Department of Energy (ODOE) stated that its interpretation is that the apatite barrier will not go forward since the apatite was being marketed. DOE-RL explained that some of the agriculturally-related chemicals were still in the possession of the vendor, who indicated that the order could be canceled with no impact to the government. DOE-RL noted that the chemical supply order was a substantial part of the cost of about one to three million dollars. DOE-RL added that the FY14 compliant budget was greater than 1.5 billion, and the President's budget was less than a billion dollars, and there are many ways of spending the money productively in the effort to be compliant. DOE-RL stated that it is re-evaluating the proposed plan and feasibility study for the apatite barrier, and a no action scenario will be included in the feasibility study for consideration. DOE-RL noted that some of the unspent money was used to purchase the uranium skids and efforts are under way to increase the groundwater treatment rate at 200 West P&T by 25 percent.

Milestone Summary - DOE-RL noted that at the request of Ecology, the milestone table was expanded through December 2016. DOE-RL indicated that the M-015-00 milestone series needs to be reviewed by the Tri-Parties, since there are several interim or individual milestones that cannot be made by the completion date, and that the parties could have discussions once the FY15

budget is received. Ecology stated that it could be a long time before it is clear what the FY15 budget will be, depending on what Congress does. DOE-RL agreed, and stated that once the FY15 funds become available, the Tri-Parties will continue discussions on the priorities for which actions should be done first. DOE-RL acknowledged that EPA and Ecology have stated that they are not interested in renegotiating the milestones. DOE-RL stated that after the omnibus bill was passed in the January-February 2014 time frame, high priority work that was agreed to by the Tri-Parties started moving forward with 200-SW-2, 200-IS-1, 200-WA-1 and 200-DV-1. DOE-RL noted that those four areas are a substantial part of the Central Plateau waste site work. DOE-RL added that work is also moving forward with 200-BP-5 and 200-PO-1 in the effort to finish the last of the groundwater operable units.

Planned Activities Next 6 Months:

100 D/H Area – DOE-RL stated that the parties are in final discussions to address the comments associated with the RI/FS and proposed plan, and expressed optimism that a Proposed Plan will be issued in the first part of FY15. Ecology noted that the holdup is the decision about whether EPA's Remedy Review Board will be reviewing the proposed plan or whether it will grant an exemption.

200-IS-1 – DOE-RL noted that the change packages for Appendix C with the legal memo have been drafted and submitted and will be discussed during the IAMIT meeting immediately following this meeting.

200-ZP-1 – DOE-RL noted that the final CY2013 200 West P&T report will be issued DOE-RL summarized that two new wells will be drilled for extracting uranium, a new skid and tank will be piped inside the P&T facility, and new lines installed to inject iodine to retard export water out of the facility. DOE-RL added that a pipeline from 200 East to 200 West will be installed to initiate the 200 East groundwater treatment, which is the last geographical area that is anticipated will require active treatment, and the plan is to complete that in FY15. There will also be two Membrane Bioreactors installed to maximize the utilization of the 200 West P&T, with the intent to reach 2,500 gpm, possibly more, and a pipeline will brought from ERDF to treat the leachate at 200 West.

Tri-Party Agreement Quarterly Milestone Review

9-18-14

Name	Organization
Renee Nielson	WCH
GLORIA CUMMINS	FREESTONE
Gordon Dover	WCH
Bill Kirby	WCH
Michael Turner	MSA
ROBIN VARLJEN	ECY
Walter Johnson	MSA
Jane V Borghese	CHPRC
Alicia Boyd	Ecology
Dru Butler	MSA
Julie Robertson	Freestone
Melinda J Brown	Ecy NWP
Alex Nerzyarak	CTUIR

Tri-Party Agreement Quarterly Milestone Review

9-18-14

Name	Organization
R. Piippo	MSA TPA
Kathy Knox	Knox Court Reporting
[illegible]	O.D.O.E.
Ray Corey	DOE RL
CATHERINE LOUIE	DOE-RL
Ron Skinnarland	Ecology
Nina Menard	Ecology
Rod Lobos	EPA
John Price	Ecology
Roger Quintero	DOE-RL
Michael Collins	DOE-RL
Brian Charboneau	DOE-RL
CATHY LAIZE	DOE-RL

Tri-Party Agreement

River Corridor/Central Plateau Milestone Review
September 18, 2014
AGENDA

Chairperson: R Corey 376-0108

Time	Milestones	Subject	DOE Presenter
8:30 a.m.	M-16, 89, 93 and 94	River Corridor Closure	373-9863 Mark French 539-0096
8:50 a.m.	M-16 and 93	100 K Remediation	373-0421 Roger Quintero 308-1927
9:05 a.m.	M-36	Life Cycle Report	Stephen 376-0262 Korenkiewicz 392-1748
9:10 a.m.	M-83	PFP Transition	376-7087 Bryan Foley 308-3892
9:30 a.m.	M-26	Land Disposal Restrictions Report	373-2668 Mike Collins 539-2169
9:35 a.m.	M-91	Acquisition of Facilities to TSD TRU/TRUM and LLMW	Mike Collins
9:40 a.m.	M-16 and 85	Central Plateau Remediation	376-8089 Al Farabee 539-0471
9:45 a.m.	M-15, 16, 24, 37 and 85	Soil and Groundwater Remediation	373-6137 Briant Charboneau 539-2122
10:05 a.m.	Adjourn Milestone Review		

Hanford Lifecycle Scope, Schedule and Cost Report

TPA Milestone: M-036-01E

Quarterly Performance Report

September 18, 2014

Stephen Korenkiewicz, DOE-RL
Lifecycle Report Project Manager

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

MSA

Hanford Lifecycle Scope, Schedule and Cost Report

TPA Milestone: M-036-01E

Quarterly Performance Report

September 18, 2014

Stephen Korenkiewicz, DOE-RL
Lifecycle Report Project Manager

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

MSA

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 or Draft 2015 Lifecycle Report.

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

MSA

SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. The Draft 2015 Lifecycle Scope, Schedule and Cost Report was completed on August 21, 2014 and is currently in review at both the Department of Energy's Hanford Field Offices. The Field Offices have until October 31, 2014 to complete their reviews.

2. The Tri-Party Agreement M-036-01 (Lifecycle Scope, Schedule and Cost Report) Project Manager's Meeting was held September 16, 2014.

SIGNIFICANT PLANNED ACTIONS

1. The Department of Energy Hanford Field Offices will complete their review of the Draft 2015 Lifecycle Scope, Schedule and Cost Report by October 31, 2014.
2. Mission Support Alliance and the Department of Energy will release the 2015 Lifecycle Scope, Schedule and Cost Report to the public by January 31, 2015 to satisfy the associated Tri-Party Agreement Milestone.

SIGNIFICANT PLANNED ACTIONS

BUDGET/COST STATUS

No major issues identified.

ISSUES

No major issues identified.

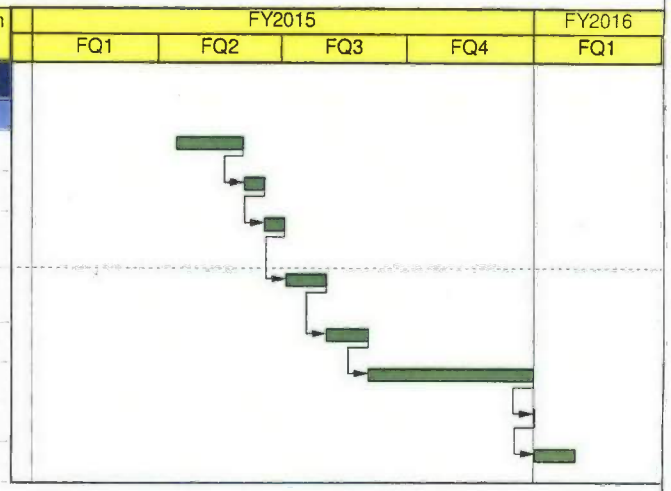
NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

No major issues identified.

Sludge Treatment Project - Field Execution Schedule

Activities Under Development or Review

Activity ID	Activity Name	Rem'g Dur	Current Start	Current Finish
RL-12 SNF Stabilization & Disposition		**161**	**15-Jan-15**	**31-Oct-15**
ECRTS.IS-TP.02.01.0005.TP-RPE T-Plant RCRA Permit Evaluation		**161**	**15-Jan-15**	**31-Oct-15**
CSCD6735	CHPRC Prepare Class II RCRA Permit Modification Package - T-Plan	27	15-Jan-15	04-Mar-15
CSCD6740	RL Review Class II RCRA Permit Modification Package	15	05-Mar-15	19-Mar-15
CSCD6745	RL/Ecology Class II RCRA Permit Modification Package Informal Workshops	15	20-Mar-15	03-Apr-15
CSCD6750	Ecology Issues 30 Day Pre-Notice For Upcoming Public Involvement Opportunity	30	04-Apr-15	03-May-15
CSCD6755	RL Submits Class II Permit Modification Announcement Letter To Ecol	30	04-May-15	02-Jun-15
CSCD6760	Public Comment Period	120	03-Jun-15	30-Sep-15
CSCD6765	Public Comment Meeting	1	01-Oct-15	01-Oct-15
CSCD6770	Ecology To Issue Decision	30	02-Oct-15	31-Oct-15



Remaining Level of Effort
Remaining Work
Critical Remaining Work
Actual Level of Effort
Actual Work
Milestone

Data Date: 14-Sep-14
Run Date: 15-Sep-14 15:40

Project Name: RL-12 SNF Stabilization Disposition
Layout: STP T-Plant
TASK filters: Not Complete, Sys-eps - specific.

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

Third Quarter FY 2014
September 19, 2014

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

CH2MHILL
Plateau Remediation Company

Accomplishments

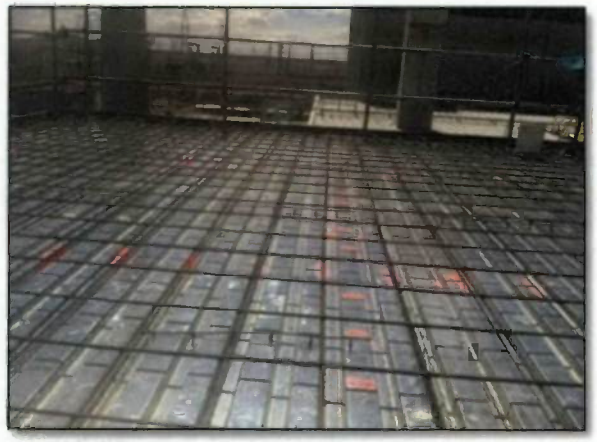
3rd Quarter 2014

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 Structural Concrete placement.*
  - *Completed placement of roof decking and concrete on low bay and intermediate bay roofs*
  - *Completed installation of high bay steel wall framing.*
  - *Continued concrete surface repairs and fireproofing applications.*



KW ANNEX: High Bay Roof Decking Installation

KW ANNEX: High Bay steel wall framing

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U.S. DEPARTMENT OF ENERGY

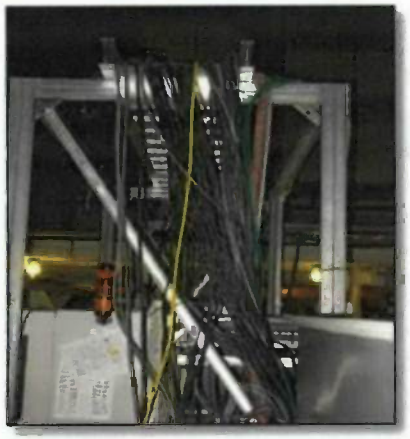
CH2MHILL Plateau Remediation Company

Accomplishments

3rd 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 completed the Overfill Recovery Tool re-test procedure.*



Pre-Mux Wiring

Post-Mux Wiring

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CH2MHILL Plateau Remediation Company

Accomplishments

3rd Quarter 2014

Sludge Treatment Project *(cont.)*

Engineered Container Retrieval and Transfer System (ECRTS)

- *Awarded two process equipment fabrication Basic Order Agreements (BOAs), one will be utilized for safety related fabrications and the other for general service related fabrications.*
- *Mobilized construction contractor to initiate field work for the In-Basin construction activities, initial work to clean out rooms for installation of equipment and installed conduit runs to support the equipment.*
- *Issued Request for Proposal for Sludge Transportation and Storage Containers (STSCs), evaluating vendor proposals.*

Accomplishments

3rd Quarter 2014

- **100K D4**
  - *100K Head House Area Facility Demo*
    - *Completed mechanical isolations to MO-293 and MO-442*
- **100KE Reactor Surveillance and Maintenance**
  - *Completed 105KE Roof Repair on 6/19/14*
- **100K Minimum Safe Activities**
  - *Maintained 100K Area Minimum Safe Configuration*
    - *Performed radiological and waste site surveillances*
- **100K Waste Sites**
  - *100KE Characterization Wells*
    - *Continued work planning for high risk drilling*

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 June 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	**422.8**	**424.0**	**434.3**	**1.3**	**-10.3**	**692.6**	**708.8**	**-16.2**	**1.00**	**0.98**

RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance ($)	Cost Variance ($)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Total	**307.8**	**307.9**	**281.7**	**0.1**	**26.2**	**393.6**	**368.3**	**23.8**	**1.0**	**1.09**

Numbers are rounded to the nearest $0.1M

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Planned Activities

July – December 2014

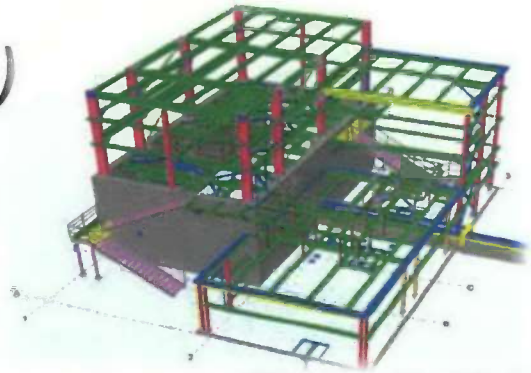
Sludge Treatment Project

- **Engineered Container Retrieval and Transfer System (ECRTS)**
  - *Submit revised PDSA to implement Nuclear Safety Initiatives.*
  - *Complete IPOD test report.*
  - *Award the contract for the fabrication of Sludge Transport Storage Containers*
  - *Continue to award ECRTS Process Equipment Procurement Packages.*
  - *Initiate Debris relocation campaign to support In-Basin installation of ECRTS Equipment.*

Planned Activities

July – December 2014 *(cont.)*

Sludge Treatment Project *(cont.)*



KW Annex: Steel Model

- **KW Fuel Storage Basin Modified Annex Construction**
  - *Complete erection of Annex structural steel*
  - *Complete Annex roof and wall panel installation*
  - *Complete Shell Completion milestone.*
  - *Initiate electrical and mechanical contractor mobilization and equipment installation*

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U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Planned Activities

July – December 2014 *(cont.)*

- **100K D4**
  - *Complete 100K Head House Area Facility Demo*
- **105KE Reactor Surveillance and Maintenance**
  - *Perform 105KE Reactor Building five-year surveillance (pending resource availability)*

Planned Activities

July – December 2014 *(cont.)*

- **100K Minimum Safe Activities**
  - *Maintain 100K Area Minimum Safe Configuration*
  - *Perform Bi-Annual Potential Asbestos-Containing Material (PACM) Waste Information Data System (WIDS) site surveillance (17 sites)*
- **100K Waste Sites**
  - *Complete 100KE Characterization Boreholes Hazard Review Board workshop*
  - *Finalize sampling instruction for 100KE Boreholes*
  - *Initiate drilling of 100KE Boreholes*

RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: April - June 2014

Tri-Party Agreement

River Corridor Milestones:

M-16 M-89 M-94

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

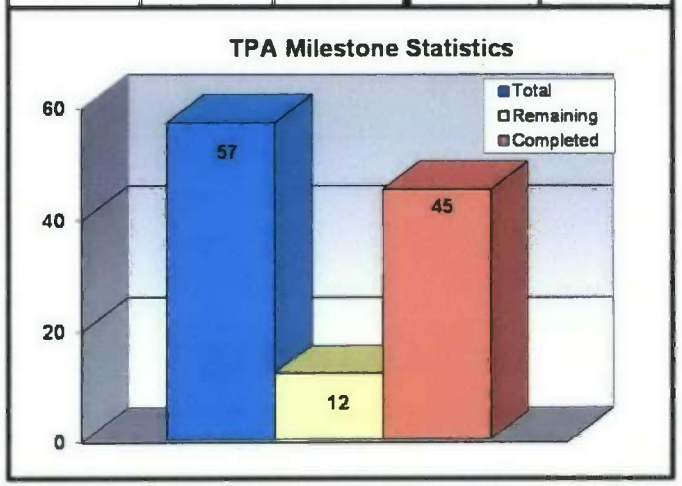
September 18, 2014

Protecting the Columbia River

E1301026_1

TPA Milestone Statistics
(Includes Target and Commitment Milestones)

Total	Remaining	Completed	Completed On Schedule	Completed Ahead of Schedule
57	12	45	5	40



Quarterly Summary (April – June 2014)

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

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2015)				
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	Draft TPA CR M-16-13-04 proposes removing the at-risk waste sites from this milestone.
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	
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	New milestones have been proposed to EPA with the draft 300 Area RDR.
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	Letter was submitted to RL on 8/28/14 for approval.
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 land disposal restriction loadout campaign from 100-D-100.
- Completed removal of in-situ redox manipulation pond (147-D) 100-D Area.
- Began backfill activities at 100-N Area.
- Received approval of 20 waste site closure documents.
- Began unexploded ordnance (UXO) and munitions and explosives of concern (MEC) surface and subsurface sweep/removal activities at 600-349.

Backfill Begins at 100-N Area

Demolition of 309 Building

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

- Completed workshop to optimize scope of mockup for 300-296 waste site remediation.
- Submitted cultural resources review to State/tribes for mockup facility for 300-296 waste site remediation.

M-94 – 300 Area Surplus Facilities Disposition

- Completed backfill of 320-BA Boiler Annex footprint.
- Completed below-grade demolition/loadout of 3790 Badge House and 3730 Gamma Irradiation Facility.
- Completed 309 Building air release calculation in preparation for explosive fracturing, pending EPA approval, and began drilling for explosive demolition.

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

ERDF

- For period April-June, disposed ~ 418,000 tons of waste; bringing total to ~ 16.2 million tons disposed in ERDF.
- Resumed out-of-cell macroencapsulation treatment activities at ERDF.
- Completed treatment of 100-D Area chromium-contaminated waste.

Flood-Grouting Items Requiring Void-Fill at ERDF

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Continue UXO/MEC surface sweep/removal activities and begin geophysical mapping at 600-349.

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

- Receive subcontractor 30% design for remediation of waste site 300-296 under B-Cell in 324 Building.
- 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

- Begin below-grade asbestos abatement of 309.
- Complete removal of 309 moderator tank and ship to ERDF.
- Complete removal of 309 rupture loop and ship to ERDF.

ERDF

- Prepare to receive 309-TW-3 and moderator tanks from 300 Area.
- Support FR and D4 projects accelerated transportation and disposal production for closure.

PERFORMANCE SUMMARY

Contract Inception (8/27/05) through June 2014

($K)

	IPB		CUMULATIVE			*Previous Quarter Comparison*			
						SCHEDULE VAR ($)		COST VAR ($)	
	BAC	EAC	BCWS	BCWP	ACWP	*Mar*	Jun	*Mar*	Jun
D4	629,688	643,051	624,594	608,886	549,717	*-16,489*	-15,708	*64,339*	59,169
Reactor ISS	75,902	81,779	75,902	75,902	81,779	*0*	0	*-5,902*	-5,877
Field Remediation	854,578	967,949	770,990	730,553	691,061	*-39,423*	-40,437	*18,099*	39,492
Waste Operations	612,195	509,420	571,255	567,597	445,507	*20,045*	-3,658	*112,123*	122,090
ESFC	76,775	60,792	75,769	72,886	57,605	*-3,523*	-2,883	*14,810*	15,280
Mission/General Support	381,407	376,566	373,220	373,220	337,156	*0*	0	*26,460*	36,064
Transition	3,979	3,747	3,979	3,979	3,747	*0*	0	*232*	232
Contingency						*0*	0	*0*	0
TARGET COST TOTAL	**2,634,525**	**2,643,303**	**2,495,709**	**2,433,023**	**2,166,572**	***-39,391***	**-62,686**	***230,162***	**266,451**

Schedule Variance (PMB): ($62,686K)

- 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.
- Delays in D4 due to waste site discovered beneath 324 Building and 309 Building demolition due to differing site conditions.
- Negative variance offset by ERDF transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): $266,451K

- 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 Building 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 overruns in 300 Area due to delayed release of facilities, 618-10 due to quantity growth and change to hazard category 3, and 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

Obtaining Backfill Concurrence at 100-D Area Chromium Sites

- **Issue:** RL is ready to proceed with backfill of the 100-D-100 and 100-D-30/104 waste sites. Ongoing discussions with Ecology indicate that additional work outside of the scope of the vadose zone remediation at 100-D-100 and 100-D-30/104 may be deemed necessary before Ecology concurs with backfill of the waste sites. Not proceeding with backfill at both sites will have significant cost and schedule impacts associated with remobilization of the backfill crew.

  Status: Backfill delays will create additional mobilization and de-mobilization costs.

M-16-149 - Obtaining Cultural Clearance at Six Sites

- **Issue:** Startup of remediation at the 600-326, 600-329, and 600-334:2 waste sites continues to be 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. Startup of remediation at the 600-332, 600-349, and 600-358 waste sites was also delayed, and will require working closely with the regulators to recover the lost schedule at these three sites.

  Status: Continue evaluating acceptable alternatives to remediation at the 600-326, 600-329, and 600-334:2 waste sites. Continue working closely with EPA on the sampling and closure of the 600-332, 600-349, and 600-358 waste sites.

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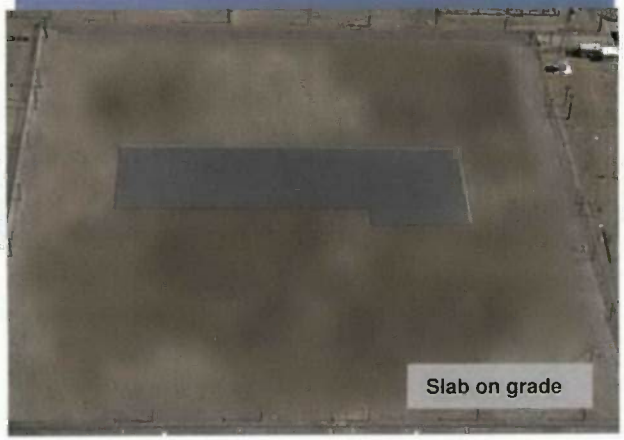

PFP Closure Project

TPA Milestone Series: M-083

Tri-Party Agreement

Bryan Foley, Federal Project Director
3rd Quarter FY14
September 18, 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

3rd Quarter FY 2014

- *Achieved more than 500,000 hours since last lost work day*
- *Continued 234-5Z Backside Rooms & RMA/RMC Glovebox deactivation activities*
  - *Gloveboxes (GB) HA-7A, HC-4, HC-18BS, HC-5C, and HA-9A were isolated from the E4 ventilation*
  - *Total gloveboxes removed to date is now at approximately 89 percent complete (212 of 238)*
- *Removed 6 pencil tank units; 136 of 196 completed to date*

Pencil tanks in PRF canyon

Preparing Glovebox HA-10 for shipment to Perma-Fix Northwest

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Accomplishments

3rd Quarter FY 2014

- *PremAire™ system approved by site respiratory committee. System will be deployed in support of 242-Z entries*
- *Completed Phase I training for entry into 242-Z Building*
- *Removed 7 Ancillary Structures*
- *Completed internal equipment strip-out and applied fixative to miscellaneous treatment gloveboxes.*
- *Implemented revised Field Execution Schedule*

Employee training in the PremAire respirator and suit during Phase I training in May 2014

Water cannons provide dust suppression during demolition of a vault once housed inside 2704-Z

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Project Baseline Performance

Contract to Date (through June 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	$701,248.9	$673,754.5	$709,208.3	($27,494.4)	-3.9%	($35,453.8)	-5%	$935,378.3	$965,660.3	($30,282.1)

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Issues/Challenges

Regulatory Issues

- *None*

Non-Regulatory Issues/Challenges

- *Gaining efficiencies*
- Documented *Safety Analysis (DSA) revision to facilitate D&D work*
- *Evaluation of alternative foaming agents*
- *Aligning D&D workers with NCOs*
- *Reduction of Technical Safety Requirements control for HVAC, fire, and criticality systems*

Criticality System Horn – As TSR controls are reduced, maintenance of these systems will be reduced and eventually discontinued

Planned Activities

July – December 2014

Balance of 234-5Z

- *Complete foam demonstration and perform size-reduction mock up*
- *Continue glovebox removal*
- *Remove remaining personnel from 234-5Z to allow for D&D*
- *Plan and initiate early removal of ductwork from the duct level*

236-Z PRF

- *Continue size reducing pencil tanks (25 units forecasted for removal by end of September)*
- *Implement overtime shift/extra shift by end of December*
- *Continue cleanout of Phase I PRF gallery gloveboxes*

242-Z

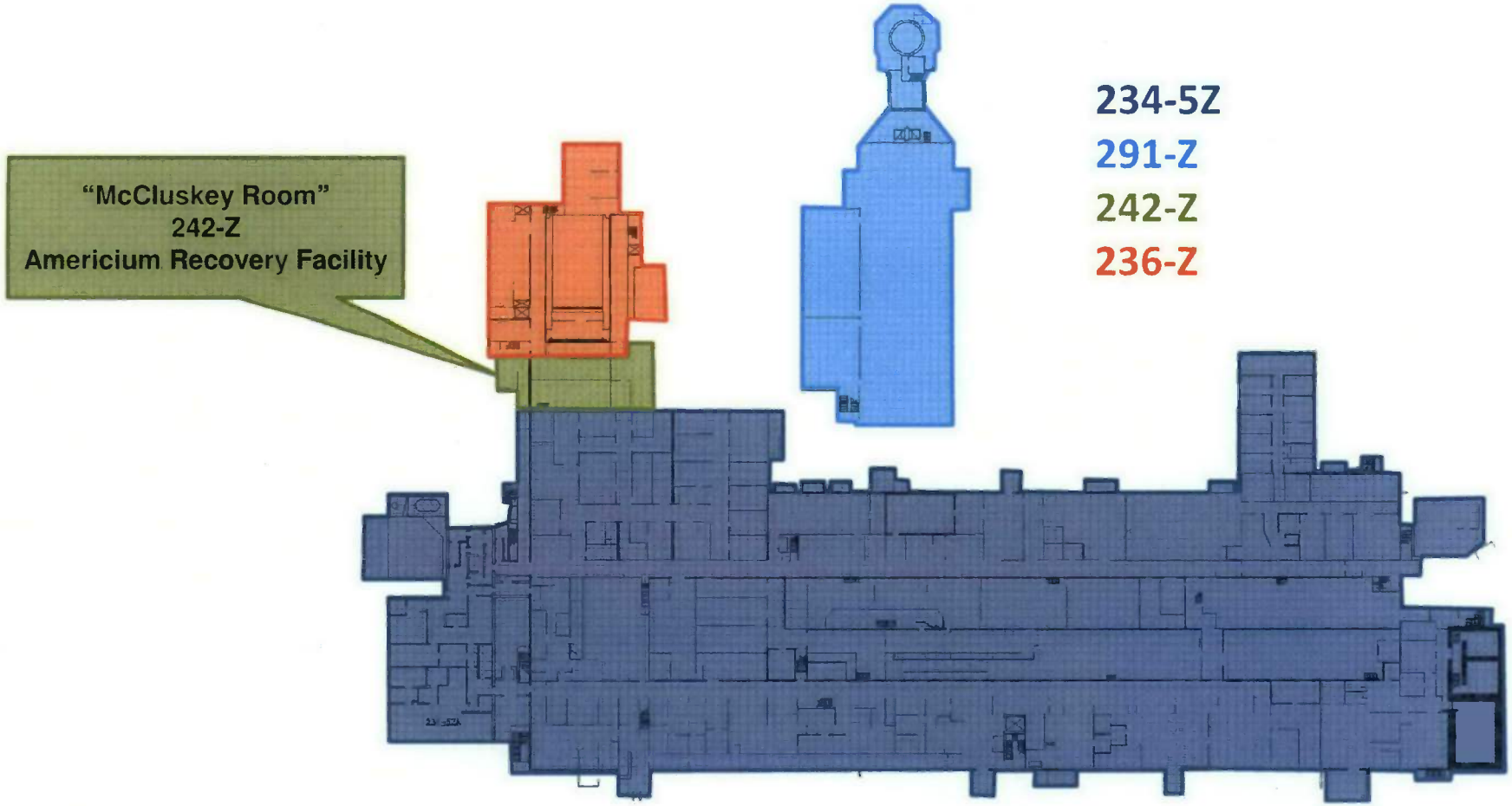
- *Complete first entries into 242-Z Facility*
  - *Modify ventilation system for increased airflow*
  - *Conduct inspection of fire system sprinklers*

Establish Demolition Footprint

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

Obtain Ecology Approval for RAWP and retire previous two RAWPs

Plutonium Finishing Plant Closure Project: *McCluskey Room Preparations*



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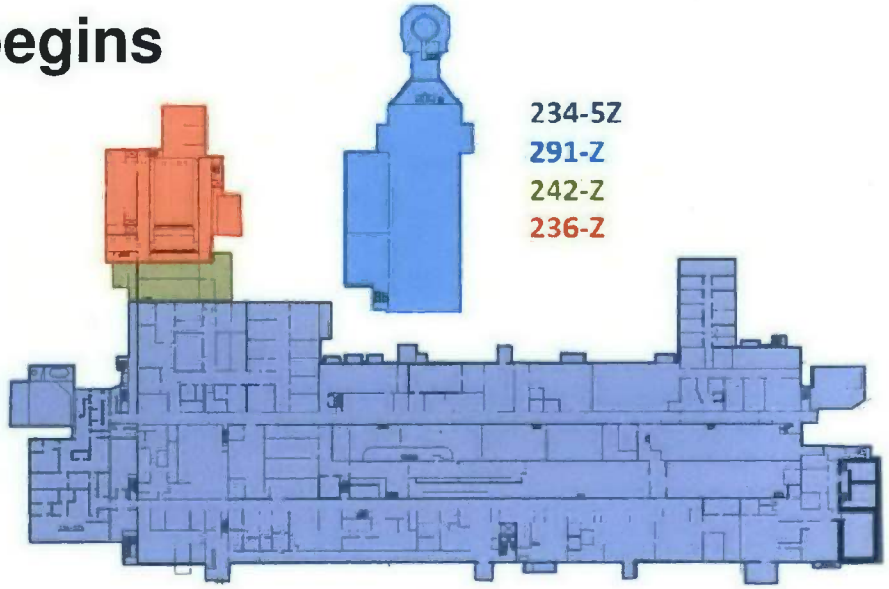
PFP Timeline

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



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Plutonium Finishing Plant Closure Project
Footprint Reduction

2013

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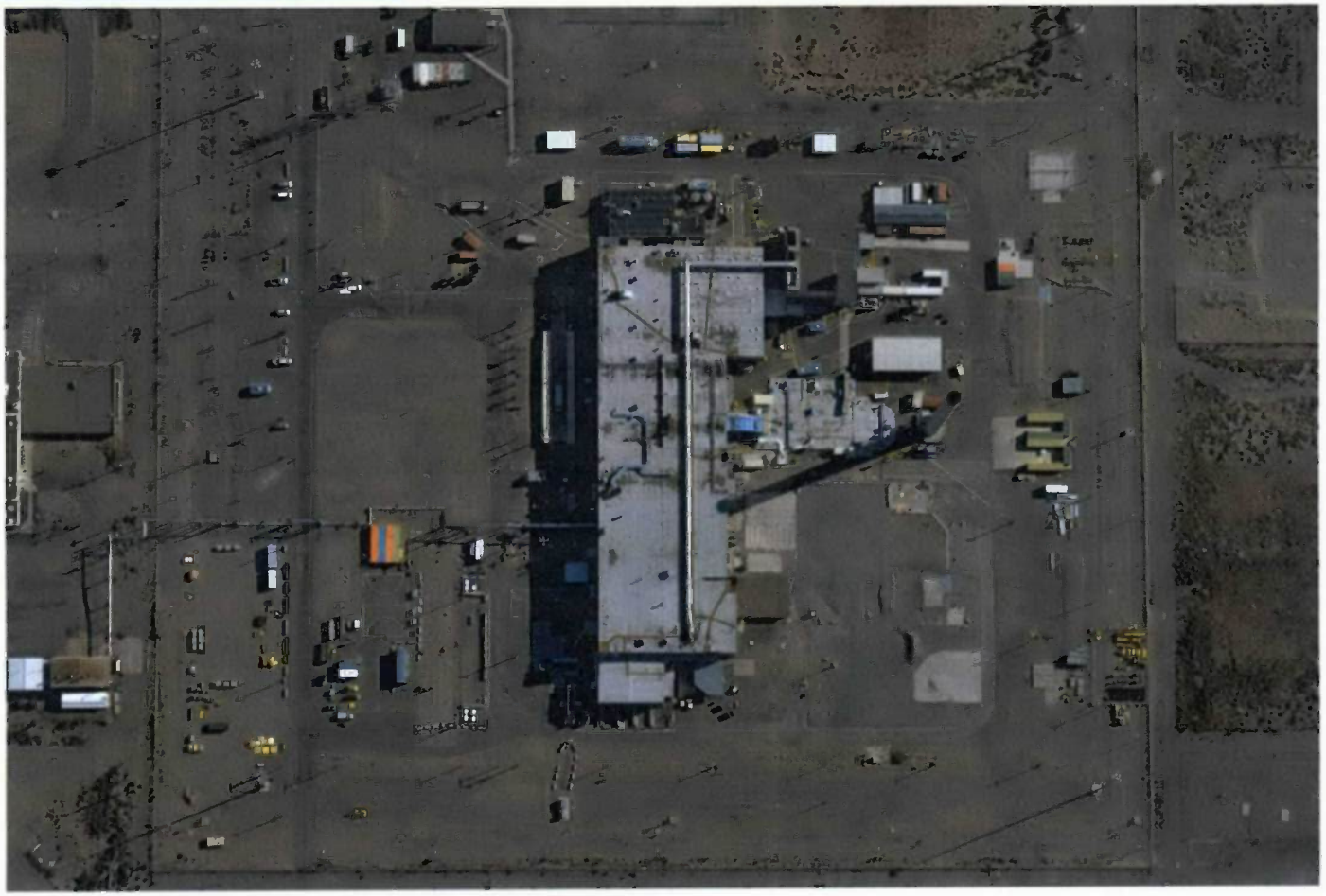
Plutonium Finishing Plant Closure Project
Footprint Reduction



2014 – 8 Ancillary Buildings Removed

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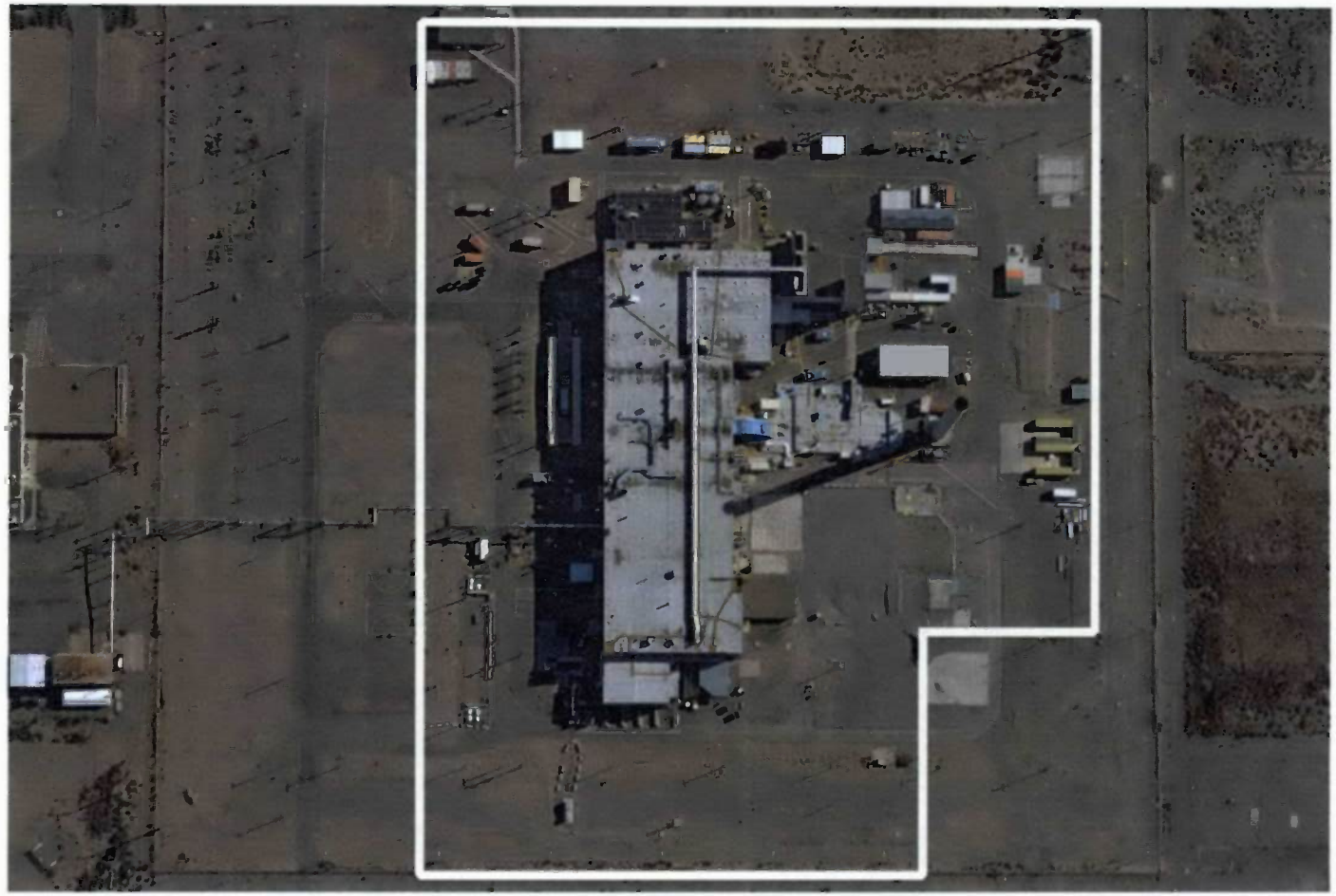
Plutonium Finishing Plant Closure Project
Footprint Reduction



2015 – Demolition Boundary

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Plutonium Finishing Plant Closure Project
Footprint Reduction

PFP Demolished to its Foundation

Department of Energy – Richland Operations Office

Solid Waste Stabilization and Disposition Project RL-0013 Milestone Review

M-091/M-026

September 18, 2014

EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

www.em.doe.gov

Accomplishments

- M-091-03 – Project Management Plan (PMP)
  - CY 2012 PMP – Revision as revised to incorporate Ecology comments approved 05/05/14
  - CY 2013 PMP – Submitted 06/12/14, received Ecology comments 08/18/14
- M-026-01 – Land Disposal Restrictions (LDR) Report
  - CY 2013 Summary Report submitted 04/07/14
  - Ecology comments received 05/23/14
  - Response to Ecology comments provided 07/01/14, Ecology/DOE working on Ecology concerns to some of the responses
- M-091-44S – Large-Package and Remote Handled Transuranic Mixed (TRUM) Waste
  - 298 of 300 cubic meters repackaged toward 09/30/18 interim milestone

Milestone Status

- M-091-03 Project Management Plan – Continuing to work on comment resolution
- 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 m^3 by 09/30/14 – No waste will be retrieved in FY 2014
  - There were no substrate sampling and analysis results for April-June 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
  - 19 m^3 are in aboveground storage

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
  - 66 m^3 are in aboveground storage
- M-091-44S TRUM Waste (RH and large container) – Certify 300 m^3 by 09/30/18
  - 298 of 300 cubic meters repackaged toward 09/30/18 interim milestone
  - 6,846 m^3 in aboveground storage
- M-091-46 TRUM waste (CH, small container) – Complete the certification of small CH TRUM waste
  - Target: Retrieve 125 m^3 by 09/30/14 – About two cubic meters to be shipped for repackaging in June 2014
  - 1,947 m^3 are in aboveground storage

Project Baseline Performance

Contract to Date through August 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	54,893.8	54,874.5	52,717.1	0.0%	3.9%
Waste Receiving and Packaging Facility (WRAP)	34,936.7	34,936.7	37,152.3	0.0%	-6.3%
T Plant	64,383.9	64,383.9	53,993.8	0.0%	16.1%
MLLW Treatment	43,182.5	43,182.5	37,200.3	0.0%	13.9%
TRU Waste Retrieval	99,991.6	99,991.6	112,263.1	0.0%	-12.3%
TRU Waste Repackaging	49,401.6	50,804.1	46,943.5	2.8%	7.6%
TRU Waste Disposition	30,934.4	30,934.4	22,345.0	0.0%	27.8%
Project Management	98,574.6	98,493.7	90,224.0	-0.10%	8.4%

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 – Continue working on content and format issues
- CY 2013 LDR Report – Complete resolution of Ecology comments

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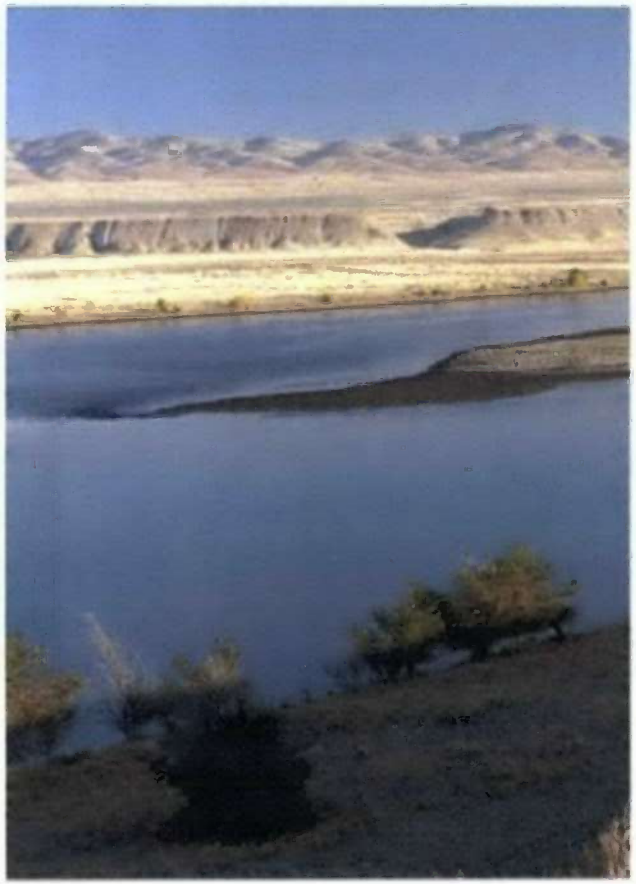

Central Plateau Remediation Project RL-40 Milestone Review

M-016-00, M-085-00

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

Third Quarter FY2014
September 18, 2014

Tri-Party Agreement

U.S. DEPARTMENT OF ENERGY

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Accomplishments

3rd Quarter FY 2014

TPA Milestones

- *None completed during 3rd Quarter FY2014*

Complete Waste Information Data Services (WIDS) Site Surveillances

- *Completed 200W Annual Waste Information Data System (WIDS) site surveillance*
- *Completed Quarterly Treatment, Storage and Disposal (TSD) WIDS site surveillances*
- *Completed 241-CX Surveillance*

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Accomplishments

3rd Quarter FY 2014

Minimum Safe/Maintenance Activities

- *Completed Plutonium Uranium Extraction Plant (PUREX) Tank 11 asbestos abatement on 6/19/14*
- *Initiated Construction Yard Demolition preparations*
- *Completed monthly preventive maintenance activities and radiological facility surveillances*
- *Miscellaneous facility surveillances (e.g., 231Z, 242B, 242BL)*

PUREX Tank 11 asbestos abatement

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Accomplishments

3rd Quarter FY 2014

Minimum Safe/Maintenance Activities (cont.)

- *Completed 200W annual waste site surveillance*
- *Completed WIDS site housekeeping (weed spraying and hot tumbleweed removal)*
- *Continued removal of ~1,100 linear feet of steamline*

Steamlines near south side of U Plant

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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

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Project Baseline Performance

Contract to date (through June 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	102.7	101.7	90.2	-1.0	-0.9	11.6	11.4	203.1	190.2	12.9

Numbers are rounded to the nearest $0.1M.

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Planned Activities

July – December 2014

- *Perform U Plant, PUREX, and REDOX Annual Surveillances*
- *Perform Abandoned Steam Line Surveillance*
- *Perform Bi-Annual Potential Asbestos Containing Material (PACM) WIDS Site Surveillance (16 sites)*
- *Complete demolition of Construction Yard Facilities*
- *Investigate PUREX N Cell contamination (Calciner glovebox)*
- *Complete removal of ~1,100 linear feet of steamline*
- *Repair REDOX (291S) and PUREX (252AB) roofs*

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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

Third Quarter FY2014
September 18, 2014

Tri-Party Agreement

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Accomplishments – 3rd Quarter 2014
(April – June 2014)

- **Completed TPA Interim Milestone M-024-58G**
  Initiate Discussions of Well Commitments
  Due June 1, 2014 (completed May 19, 2014)

- **Completed TPA Interim Milestone M-037-02**
  Submit Revised Closure Plans for Five Specified TSD Units
  Due June 30, 2014 (completed June 23, 2014)

Accomplishments – 3rd Quarter 2014 (April – June 2014)

100-D/H

- *Completed 100-D-100 waste site characterization*
- *Issued Draft Rev. 0 100-HR-3 Proposed Plan to Ecology*

100-K

- *Completed three extraction wells planned for KX P&T*

100-NR

- *Submitted the Draft Rev. 1 Interim Action RD/RA Work Plan for Ecology review and approval*

300 Area

- *Issued Draft A Integrated RD/RA Work Plan to EPA*
- *Submitted Post-ROD Field Investigation Sampling Instructions to EPA*

NEC Inspection following electrical tie-in to DX P&T for well 199-D-146 (ME50)

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Accomplishments – 3rd Quarter 2014 *(April – June 2014)*

200-IS-1/200-WA-1

- *TPA Change Package approved to move a few waste sites between 200-IS-1 and 200-WA-1*
- *Drafted TPA Change Package to add nearly 230 waste sites to 200-IS-1*

200-UP

- *Completed 30% design of uranium extraction and treatment system*
- *Completed SAP for 200-UP-1 remediation wells and initiated drilling*

200-DV

- *Completed drilling and installation of two new perched water extraction wells*
- *Removed 18,995 gallons of effluent from the perched water zone, including extraction of*
  - *5.8 kilograms of uranium*
  - *38.8 kilograms of nitrates*
  - *3.5×10^9 pCi of Tc-99*

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Accomplishments – 3rd Quarter 2014
(April – June 2014)

200 West Area Groundwater Treatment Facility

- *Drilling complete on all four injection wells*

River Corridor and Central Plateau Groundwater

- *Average pumping rate for pump and treat systems was over 4,100 gpm this quarter*
- *Treated 534 million gallons of groundwater*
- *Removed 15,512 kg (34,198 lbs.) of contaminants from the groundwater*

Sampling

- *2,724 groundwater samples collected*
- *3,320 analyses performed*

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Accomplishments – 3rd Quarter 2014
(April – June 2014)

S&GRP work crew performing functional testing at the 200 West P&T of the 100-NR-2 Apatite processing equipment

Successful testing of the NR-2 apatite processing equipment

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Milestone Summary *(through December 2016)*

TPA Number	Milestone or Target Date	Milestone/Target Date 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-015-112	2/28/14	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	DISPUTE RESOLUTION
M-015-110A	3/31/15	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	ON SCHEDULE
M-015-113	3/31/15	Submit Draft B 200-SW-2 RFI/CMS/RI/FS Work Plan to Ecology Including Schedule	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-015-38B	10/30/15	Submit Revised FS Report & Proposed Plan for CW-1, CW-3, OA-1 to EPA	ON SCHEDULE*
M-015-91B	12/31/2015	Submit FS Report & Proposed Plan for the 200-BC-1/200 -WA-1 OU	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
M-016-110-T05	12/31/2015	Implement System To Meet Drinking Water Standards for Uranium at 300-FF-5 OU	ON SCHEDULE
M-016-191	3/30/2016	Complete Acceptance/Operation Test Procedures and Initiate Operations of U Plant Area Pump & Treat	ON SCHEDULE
M-016-192	6/17/2016	Submit I-129 Technology Evaluation Plan Draft A to EPA Per 200-UP-1 RD/RA WP	ON SCHEDULE
M-016-110-T03	12/31/2016	Take Actions To Contain Sr-90 GW Plume at 100-NR-2 OU	AT RISK
M-016-110-T04	12/31/2016	Implement Remedial Actions in All 100A RODS For GW Ous	AT RISK

* Revised due date to be identified by 10/30/15

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Milestone Summary *(through December 2016)*

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	COMPLETE
M-024-65-T01	8/1/14	Conclude Discussions of Well Commitments	COMPLETE
M-024-65	12/31/14	Complete the Construction of all Wells Identified in M-24-11-01	COMPLETE
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-024-66	12/31/15	Complete Construction of All Wells Listed for CY 2015 and Before as Identified in M-24-12-01	ON SCHEDULE
M-037		**RCRA Closures**	
M-037-02	6/30/14	Submit Revised Closure Plans to support TSD closure for five (5) TSD Units:	COMPLETE
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

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CH2MHILL Plateau Remediation Company

Project Baseline Performance

Contract to date through June 2014

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	639.4	640.8	617.9	1.5	0.2	22.9	3.6	1,170.3	1,128.0	42.3

Numbers are rounded to the nearest $0.1M.

Tri-Party Agreement

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Planned Activities

Next 6 months (July – December 2014)

100 K Area

- *Provide Draft A Interim RD/RA Work Plan, O&M Plan, and Monitoring Plan for EPA review*

100 F/IU Area

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

100 D/H Area

- *Issue Final Rev. 0 of the RI/FS & PP*
- *Complete 100-D-100 characterization efforts*
- *Provide Draft A Interim RD/RA Work Plan, O&M Plan, and Monitoring Plan for Ecology Review*

100 N Area

- *Issue Interim Action RD/RA Work Plan*
- *Issue Draft Rev. 0 of RI/FS*

300 Area

- *Issue Integrated RD/RA Work Plan*
- *Issue Post-ROD Field Investigation Sampling Instructions and complete field investigations*

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Planned Activities

Next 6 months (July – December 2014)

200-IS-1

- *Issue waste site TPA Change Package(s) with legal memo*
- *Dispute resolution*

200-WA-1

- *Issue Draft Rev. 0 RI/FS Work Plan for EPA review*

200-SW-2

- *Complete DQO Workshops*

200-ZP-1

- *Complete installation and hookup of 4 new injection wells*
- *Begin drilling 4 additional injection wells*
- *Issue final CY2013 200 West P&T report and updated O&M plan*

Planned Activities

Next 6 months (July – December 2014)

200-UP-1

- *Complete design of the uranium extraction and treatment system, and extraction network construction*
- *Complete 30% design of the I-129 hydraulic containment system*
- *Delivery of uranium ion exchange treatment skid*
- *Complete Draft A Performance Monitoring Plan*

200-DV-1

- *Issue final perched water Action Memorandum and Removal Action Work Plan*
- *Submit Draft A RI/FS Work Plan*