

River Corridor/Central Plateau
Tri-Party Agreement Milestone Review
Meeting Minutes
March 19, 2015

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Date: 5/21/2015

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Date: 5/18/15

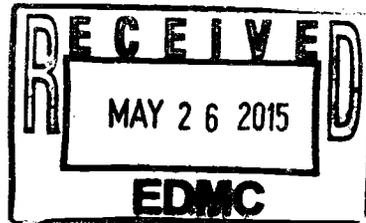
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Date: 5/20/15

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*Attendees

Key Documents List: DOE-RL provided an updated Key Documents List and noted that there were several milestones that were identified as part of the M-015 negotiation package. DOE-RL stated that there have been discussions with Ecology and EPA regarding the need to negotiate the M-015/M-016 milestone series. DOE-RL pointed out No. 27 on the Key Documents List regarding the RD/RAWP for 300-FF-2/300-FF-5 and 300 Area, stating that direction has been given to the contractor to proceed at risk with the uranium sequestration pilot per discussion with EPA. DOE-RL stated that the contractor will be doing 25 percent of the zone this year, starting with the injection wells. DOE-RL referred to No. 25 on the key documents list and stated that drilling on the first borehole at the 100-KE waste site is starting today. DOE-RL stated that a HEPA system has been set up with the glovebox to take samples. Ecology asked if DOE-RL had a schedule for the M-015 milestone negotiations. DOE-RL responded that a meeting is scheduled next Thursday (3/26/15) to start setting up the schedule for negotiations.

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

Quarterly Summary (October - December 2014) – DOE-RL noted that today's summary report is for October through December 2014, but updates would be provided on progress in the last three months during today's presentation. DOE-RL noted that 46 of 57 TPA milestones have been completed, with 11 milestones remaining.

Milestone Status:

M-16-149 - DOE-RL reported that this milestone was revised to move the date out by one year to 3/31/2016, with approval from EPA. DOE-RL noted that the extension will allow for completion of cultural resource reviews and approvals associated with some of the waste sites that are located in tribal sensitive areas. DOE-RL added that there are a few waste sites that are believed will have no action required, and efforts are under way to get the paperwork on those approvals done.

M-16-159 – DOE-RL stated that this milestone has been completed, and a walk-down with Ecology is scheduled for next Monday (3/23/15).

M-16-69 – DOE-RL noted that this milestone is at risk, and a milestone change package is being prepared for negotiation with EPA. DOE-RL stated that there are some waste sites associated with 324 that can't be remediated due to the proximity to the 324 Building. Remediation was started a few months ago on the 316-3 waste site, which is adjacent on the north side of the 324 Building, and the extent of the contamination may interfere with other structures like the 324 stack.

DOE-RL stated that 316-3 may not be able to completely remediated until the 324 Building is taken down. DOE-RL noted that this milestone has references to waste sites that are impacted by retained facilities, and the impacted waste sites will be performed via the schedule in the RDR/RAWP. DOE-RL added that there will be discussions with EPA to determine the path forward. EPA stated that the status of this milestone is not "at risk" and should state, "to be missed". DOE-RL responded that the milestone will be revised, and it is physically impossible to complete the milestone by the end of this fiscal year.

M-89 – DOE-RL reported that the mockup for remediation of the 300-296 waste site is nearing completion at Areva. The concrete has been poured, the tent is up and some of the equipment is in place.

M-94-10 – DOE-RL reported that disposition of the 300 Area surplus facilities is done with the completion of the 309 Building, and the facilities status change form for 309 is in EPA approval. EPA indicated that the change form was signed yesterday (3/18/15). DOE-RL stated that WCH is done with all the D4 under their contract in the 100 Area except for K Area.

Significant Accomplishments - For Last 3 Months:

M-16 - Remedial Action/Risk Assessment – DOE-RL stated that the backfill and revegetation was completed at the 100-N Area. DOE-RL noted that there are two culturally sensitive waste sites in the Mooli Mooli that still remain to be done. Remediation of the 100-N-96 waste site was completed and the sampling has been done. When the final closeout sampling is done the waste site will be backfilled. DOE-RL noted that it is working with the Tribes on the cultural approval for 100-N-83. DOE-RL reported that remediation was completed at the burn pit next to Gable Mountain where additional unexploded ordnances (UXOs) were found, along with the UXOs that were found on the side of Gable Mountain. DOE-RL stated that there were 37 UXOs that were going to be detonated at the burn pit, but yesterday, the Army took the UXOs to the firing range to use for training, so efforts to close out the burn pit will be initiated. DOE-RL noted that it still needs to deal with the lead bullets that were found on the side of Gable Mountain.

M-89 - 324 Bldg. Non-Permitted MW Units Closure – DOE-RL stated that the 60 percent design for remediation of the 300-296 waste site was received from the contractor at the end of December 2014, and the 90 percent design is being prepared for approval by the end of June 2015.

M-94 – 300 Area Surplus Facilities Disposition – DOE-RL noted that the 300 Area surplus facilities are basically done, and the 340 Vault excavation is currently being backfilled. When 309 is approved and closed out, the area will be

backfilled in coordination with other backfills that are going on in the 300 Area. DOE-RL referred to the below-grade concrete foundation that was under 309 and stated that scabbling was done on top of the concrete to remove some of the chrome contamination and the stain from hydraulic fluid that was spilled. DOE-RL noted that workers had expressed concern that the concrete was being left in place, but it is being left 30 feet underground and it is not contaminated.

ERDF – DOE-RL reported that over 17 million tons of waste have been disposed at ERDF. DOE-RL noted that the disposal rates are much higher this year than were anticipated, and about four times the amount that WCH planned at the beginning of its contract, which reflects the amount of cleanup done at the River Corridor. DOE-RL stated that the additional controls that were implemented to mitigate airborne hazards from 618-10 were associated with the higher activity drums that were being disposed. There was some airborne contamination from the Caterpillar tractor that was pushing the soils and the drums, and more fixative was used to control any airborne contamination.

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action/Risk Assessment – DOE-RL noted that the UXO remediation at 600-358 was completed.

ERDF – DOE-RL stated that when the last of the remediated waste sites are completed this year, the disposal volumes at ERDF should drop off significantly next year, and that PFP and 618-10 will be the main contributors to ERDF over the next one to two years. DOE-RL stated that the long-length items that require macroencapsulation at ERDF continue to be processed, and noted that there is another meeting scheduled to discuss the macro waiver. EPA noted the long amount of time that it is taking for the macro waiver decision.

RCC Issues:

600-385 Waste Site Cultural Resource Review – DOE-RL stated that the 600-385 waste site is one of the extremely sensitive sites at H Area, and it had started working with the Tribes about two years ago on a process to get the Tribes agreement on how to remediate waste sites in culturally sensitive areas. DOE-RL noted that for the sampling that was done at the K Area shoreline waste sites, it took almost two years to complete discussions with the Tribes. DOE-RL stated that progress appeared to be made during a couple of meetings with Tribal representatives, but then there was some push-back from one of the tribes. DOE-RL noted that a meeting is tentatively scheduled next week at a higher level with the Tribes, and efforts continue to move the issue forward because a Memorandum of Agreement (MOA) is needed by the end of August 2015. EPA reiterated its

position that DOE-RL controls the process and does not need an MOA, and that DOE-RL does not have to meet the administrative requirements of the ARAR to get approval of an MOA.

DOE-RL stated that two of the shoreline sites may not require action because one site will be addressed in the final Record of Decision coming out, and the second site doesn't appear to have any contamination. EPA suggested that the remaining proposed plans could be restructured to select a remedy that has no action sites, that has institutional control sites and has remove, treat, dispose (RTD), and then DOE-RL would have the ability to reclassify the waste sites. EPA added that DOE-RL's current approach limits it to one choice, which is RTD.

DOE-RL stated that the firing range area at Gable Mountain was cleaned up a few years ago, and there are still a lot of bullets remaining where the UXO removal is being done. DOE-RL stated that it is working on the sampling plan, and indicated that the ultimate objective would be to leave the bullets in place and show that there would be no environmental hazard associated with leaving them in place. DOE-RL noted that there would have to be a lot of discussion with the tribes on the issue.

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

Accomplishments – 1st Quarter 2015:

Sludge Treatment Project Phase 1 - Removal of Containerized Sludge - DOE-RL noted that milestone M-016-175 was due last September 2014 and was missed, and the milestone is in dispute resolution. DOE-RL stated that the current status of the dispute resolution is that it has been extended at the Inter-Agency Management Integration Team (IAMIT) level until March 31, 2015. DOE-RL has provided a draft, unsigned change request to EPA for review and consideration. EPA stated that agreement has been reached on a schedule for the milestone, but there has not been agreement on whether DOE-RL will continue to fight force majeure. EPA stated that it received a note from DOE-RL that a decision will be received from DOE-Headquarters by next week regarding force majeure. DOE-RL concurred with EPA's statement. EPA stated that if the decision is made to fight force majeure, the process will move up the chain of management for decision-making. DOE-RL noted that review by the Senior Executive Committee (SEC) is still a possibility, and it is in the process of internal discussions in an effort to make a decision.

EPA stated that DOE-RL does not need to write a dispute statement for milestone M-016-173 because it is carried in the draft change package. DOE-RL stated that there is agreement with EPA that each agency's headquarters is working on the

stipulation of penalties. EPA concurred with DOE-RL's statement.

DOE-RL reported that work continues on the Sludge Treatment Project Annex with mechanical and electrical installation, piping and hangers. Construction of the Annex facility is expected to be finished either late fiscal year 2015 or early in fiscal year 2016. DOE-RL stated that the first meeting with EPA to discuss permitting at T Plant was held in November 2014, and a follow-on tour at MASF was held in December 2014, and that a couple of meetings have been held since then.

Sludge Treatment Project - Engineered Container Retrieval and Transfer System (ECRTS) – DOE-RL reported that there are a total of about 20 procurement fabrication sets, and eight fabrication sets had been awarded as of the end of December 2014. DOE-RL noted that the main fabrication set is for the sludge transportation and storage containers (STSCs), and that fabrication work is proceeding.

Milestone Status – DOE-RL stated that all of the milestones listed in today's handout are included in the draft change request, and the milestones are in some form of dispute or negotiation.

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

Planned Activities October 2014 – March 2015:

Engineered Container Retrieval and Transfer System (ECRTS) - DOE-RL reported that the Preliminary Documented Safety Analysis (PDSA) was approved by DOE-RL in February 2015. DOE-RL stated that the PDSA will allow implementation of two nuclear safety initiatives. One nuclear safety initiative is a revised spray leak methodology that allows reduced control of access to the river while processing sludge. The second nuclear safety initiative will allow sludge layering, which will reduce the number of STSCs needed to remove the sludge out of the basin.

Sludge Storage at T Plant – DOE-RL stated that a meeting was held with Ecology and EPA in January 2015 to lay out the plan for sludge storage at T Plant. A proposed approach for the RCRA permitting was presented during the January meeting. DOE-RL stated that another meeting was held in February 2015, and the purpose was to get feedback from Ecology and EPA. DOE-RL noted that it hasn't received much feedback yet. DOE-RL stated that the proposed approach is to prepare a Class II permit modification for T Plant. DOE-RL indicated that a Class II permit mod may not be feasible within the time frame of the proposed

schedule. EPA stated that if all else fails, DOE-RL could set up a CERCLA storage area at T Plant to store the sludge. DOE-RL responded that there are relatively minor modifications necessary to T Plant to support sludge storage, and its understanding is that the modifications would come under the purview of the RCRA permit. Ecology stated that it would follow up and provide feedback to DOE-RL.

DOE-RL stated that the work required for T Plant is not critical path yet, and the preference is to start as soon as possible to keep it off the critical path. DOE-RL noted that going into T Plant and working with the crane can create schedule risk. DOE-RL added that it has opened T Plant up to start maintenance on the crane and getting it ready to go. DOE-RL stated that the basic approach in the next two years is to remove the old North Load Out Pit equipment off one of the cells in T Plant, and then clean out some material or equipment from a couple cells in FY16. In FY17, the necessary equipment would be installed for sludge storage.

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

DOE-RL stated that the fifth annual Hanford Lifecycle Report was submitted to the regulators by the TPA milestone due date of January 31, 2015. DOE-RL noted that comment and feedback from the regulatory agencies and the public are due by April 30, 2015, which allows some extra time since the fact sheet was released later than usual. DOE-RL noted that Ecology requested inclusion of an alternatives analysis in the 2016 Lifecycle Report for onsite and offsite storage costs for the cesium/strontium capsules, and the subject will be discussed later today during the Lifecycle Report project managers meeting. Ecology indicated that DOE may be moving in the direction of considering interim storage for high-level waste and spent nuclear fuel, and it may be a viable alternative for DOE-RL to consider.

PFP Closure Project - TPA Milestone M-083

DOE-RL provided photos today depicting the McCluskey glovebox and other areas in the PFP facility.

Milestone Summary - DOE-RL reported that milestone M-083-44 and the major milestone M-083-00A are at risk. DOE-RL stated that a draft change package has been prepared for M-083-44, which is due September 30, 2015, and it will be discussed at the Inter-Agency Management Integration Team (IAMIT) meeting following this meeting. DOE-RL stated that there is a good chance of meeting the major milestone M-083-00A, which is due September 30, 2016. DOE-RL noted that through overtime in the Plutonium Recovery Facility (PRF) doing pencil tank work, and overtime in the Americium Recovery Facility, the workers have been

able to regain some of the schedule.

Accomplishments Q1 FY 2015 – DOE-RL reported that the WT-3 glovebox in 242-Z has been completely removed, and the WT-2 glovebox is at 95 percent complete and will be completed by March 24, 2015. DOE-RL stated that WT-1 is the last remaining glovebox, and the workers spent the last few weeks removing piping components to WT-1. DOE-RL noted that some of the components are five-to-eight R on-contact, per hour. DOE-RL pointed out that all the above-mentioned work is critical path, and that credit goes to the workers for safely overcoming several problems that were encountered.

DOE-RL reported that work is under way on the last pencil tank assembly, and the nondestructive assay (NDA) was just completed on the pencil tank. The intent is to start cutting up the pencil tank this Friday on overtime, but due to the complexity of the pencil tank, it will take two to three weeks to cut it up and seal it out. DOE-RL stated that the Rad-Tu tank that has been sitting in the south canyon airlock of Plutonium Reclamation Facility (PRF) has been wrapped and will be transported tomorrow, along with the manlift. DOE-RL noted that removal of the tank and manlift is critical to clearing the pathway through the south canyon airlock to allow bulk cleanout of the canyon. Bulk cleanout of the canyon will progress once all the pencil tank units are removed and sealed out. DOE-RL noted that it was a significant accomplishment for PFP to get the pencil tanks completed, especially with the crane down time. Ecology mentioned the estimate for completion of PFP compared to Rocky Flats. DOE-RL responded that the independent government estimate that DOE-RL is working to is \$2.2 billion, and currently the projection to reach slab-on-grade is around \$1.3 to \$1.4 billion, coming in under the government estimate by \$800 to \$900 million.

DOE-RL stated that the Documented Safety Analysis (DSA), Rev. 12, was submitted by the contractor in January 2015, and it is in review for approval. The DSA Rev. 12 is on schedule to be approved by April 16, 2015. DOE-RL stated that the DSA is critical because it is the license to be able to systematically back out of all the technical safety requirements to do the phased, open-air demolition. DOE-RL noted that the Defense Nuclear Facilities Safety Board (DNFSB) has also been reviewing the DSA. DOE-RL stated that the DNFSB came out in November 2014, and it has been reviewing draft documents. DOE-RL added that the DNFSB has expressed some concerns, and the DSA Rev. 12 will address several of the concerns. DOE-RL stated that it has been actively engaged with the DNFSB and meeting monthly, at a minimum, via telephone to discuss issues.

DOE-RL noted that the canyon crane went down, and the team was able to get the crane operational within a month, which was much quicker than the last time the crane went down. DOE-RL provided a short video depicting the McCluskey

glovebox after the accident (which occurred in 1976), and crews in the PremAire suits working on removing the glovebox.

Project Baseline Performance - DOE-RL stated that the project baseline performance still shows PFP behind schedule and over budget, but it has been significantly reduced. DOE-RL noted that there has been a major turnaround in efficiency at PFP in the last year.

Issues/Challenges – Regarding revision to the DSA, DOE-RL stated that it is believed there is a path forward for the fire suppression system, and the criticality threat is being handled by reducing the material at risk (MAR) in the facility by cleaning out the gloveboxes, etc. Portions of the ventilation system are being taken out that have no characterization (verified through NDA) that apply holdup. DOE-RL suggested giving a presentation to show the phasing for demolition once the demolition plan is in writing.

DOE-RL reported that PNNL is under contract to review and update the air dispersion models, and the results will be submitted by the August/September 2015 time frame. DOE will then conduct a review, and approval is anticipated by mid-November 2015. The air dispersion models is the effort to ensure safety once open-air demolition is started. DOE-RL noted that PNNL did the initial air dispersion analysis.

Planned Activities through June 2015 – DOE-RL stated that the hazardous material cleanout in 234-5Z also includes chemical cleanout from asbestos abatement chemicals and nitric acid lines. DOE-RL noted a correction in today's handout to the in situ size reduction in 234-5Z that should read HC-9B and not HC-18M. DOE-RL noted that HC-18M was the first glovebox that was planned to be taken out, but the workers determined that most of the holdup was in the vacuum pump assembly, which was removed. The NDA characterization was redone on HC-18M, and it was less than the 200 gram limit and does not need to be size-reduced in place. DOE-RL noted that the 200 gram limit goes to transportation, and HC-18M will be taken out during predemolition and then be sent to Permafix Northwest for size reduction, with eventual shipment to WIPP. DOE-RL stated that mockup training and testing is under way to prepare for in situ size reduction on HC-9B. DOE-RL noted that the workers will be wearing the PremAire suits while working on HC-9B.

DOE-RL stated that after the crews get through PRF and the Americium Recovery Facility, the next item on the critical path within 30 days is moving to the duct level in 234-5Z. DOE-RL stated that there are four gloveboxes of concern that have high holdup, and one of the gloveboxes has been cleaned out and separated, with the remaining three on schedule to be done in FY16.

DOE-RL stated that 243-Z is scheduled to be demolished starting this month, but more likely started in May 2015. DOE-RL noted that 243-Z will be discussed later today at the IAMIT on the path forward with regard to the condensate drains that go from the steam turbine fans. DOE-RL stated that in an emergency, that is the major source of water and it is about 100,000 gallons per year. DOE-RL stated that if the water could not go to the active grade drain, the alternative would be to pump the water over to the 200 West Pump and Treat Facility. DOE-RL noted that hydrology studies were done and the results indicated it would not impact the groundwater and would still meet the clean water drinking standards. EPA stated that there may be an issue in regards to the ERDF leachate and the law on groundwater reinjection. EPA stated that its lawyer is reviewing the issue, and whatever decision is made on ERDF would apply to DOE-RL's path forward. DOE-RL stated that it was not aware of the issue, and EPA indicated that it had just become aware of the issue.

DOE-RL reported that the sump characterization at 291-Z (ventilation building) is on schedule. DOE-RL noted that the process vacuum line was how the material was moved through the facility, and by removing the line, the criticality and the material source is removed. DOE-RL stated that the E4 ventilation in the 242-Z facility is the exhaust ventilation that mainly came off all of the gloveboxes, which is why it's of concern, and it will be packaged out. EPA asked about the core drilling in PRF. DOE-RL responded that its understanding is that it does not mean going through the floor, but it will follow up and provide more information to EPA.

DOE-RL expressed the importance of keeping the workforce stable and the teams together at PFP, and noted the bump-and-rolls have caused a lot of disruption. DOE-RL stated that it has been working with the contractor CHPRC, and CHPRC is offering an employee incentive program that was just approved by HAMTC to incentivize the workers to stay at PFP as long as they are needed. DOE-RL noted that it was a major accomplishment to move the incentive program through the whole system of the CH2M Hill corporate board, and that DOE-RL made some adjustments to some of the performance incentives to help with the program. EPA stated that the incentive program should help with the negotiations on the M-015 series since there appears to be a good certainty that PFP will get finished.

A short video was shown that depicted some of the congestion while working in the duct level.

M-091/M-026 TPA Quarterly Milestone Review

Accomplishments – DOE-RL reported that the calendar year 2013 M-091-03 Project Management Plan (PMP) was approved by Ecology. DOE-RL added that it is a contingent approval, based on what happens with the CY 2014 PMP, which is currently being prepared.

DOE-RL stated that the M-026-01 annual Land Disposal Restrictions (LDR) report has been prepared and is in concurrence for the April 30, 2015 submittal. Ecology referred to EPA's letter to DOE-RL, and stated that EPA's area of concern, No. 2 (a) and (b) is exactly consistent with Ecology's comments and expectations on the LDR report. Ecology stated that the expectation is that waste codes will be assigned to each group of waste, and there will be a specific schedule that can be easily located. DOE-RL responded that there have been discussions with Ecology regarding the schedule and what will be included in the LDR report. DOE-RL stated that the draft version of the LDR report that was provided to Ecology did not have the schedule yet. DOE-RL acknowledged receipt of EPA's letter.

DOE-RL reported that all the TPA milestones that currently exist through 2018 under M-091 have been met for certifying large package and remote-handled waste. DOE-RL is continuing to send waste to Permafix Northwest for repackaging.

Milestone Status - DOE-RL stated that no waste is being retrieved, and there is very little mixed low-level waste (MLLW) to be treated, in part, because no waste is being retrieved, so no MLLW is being assayed out.

Project Baseline Performance – DOE-RL noted that there is not much change to the cost and schedule variance since very little work is being done.

Actions Planned for Next Six Months – DOE-RL stated that there will be some transuranic (TRU) waste repackaged to make it compliant for WIPP. DOE-RL added that the WIPP certification program will not be onsite to do the certification, but the TRU waste will be repackaged into a certifiable configuration. DOE-RL noted that there will be quite a bit of work associated with permitting and compliance activities.

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

Accomplishments 1st Quarter FY 2015 – DOE-RL reported that during the tri-annual surveillance on the radiation areas, additional radiation was found in Control Area B and C. DOE-RL noted that about 40 acres were cleared in Control Area A and the dirt was sent to ERDF, and there is no new radiation in Control Area A. DOE-RL stated that the amount of WIDS site housekeeping has

gone down in priority due to the limited budget, but efforts are made to do the weed spraying and tumbleweed removal in areas that might contribute to contamination spread. DOE-RL noted that the asbestos abatement continues on an emergent basis with limited funding. EPA stated that its asbestos expert will be in Umatilla to conduct an inspection, and he will be onsite the week of May 5 for one day to provide asbestos assistance. DOE-RL stated that the PUREX N-Cell investigative survey work was done to try to locate the area of increased contamination, and it is believed that the area was located. DOE-RL noted that there was very little corrective action taken. DOE-RL added that about a million dollars will be applied in an effort to address some of the issues inside PUREX this year and next year.

Milestone Status – DOE-RL stated that M-037-11 is at risk because of documentation associated with M-037-10. DOE-RL added that there will be discussions with Ecology in the near future about closure of 207-A, which is on the short list of six waste sites that were emailed to Ecology. Ecology agreed with the intent to close out the sites on the short list, but pointed out that the closure plans as submitted could not be put in the permit. Ecology stated that throughout the closure plans there are statements that a site is clean closed, and the closure plan that has already reached a decision could not be put in the permit. Ecology added that the closure plans should not be referencing that the information is in other CERCLA documents. DOE-RL responded that the closure plans are currently being rewritten, and the intent is to have a markup of the closure plans to Ecology in the near future.

DOE-RL noted that the philosophy for pushing out the date ten years and submitting a change package for major milestone M-085-00 was that there would be knowledge available regarding what was done with U Plant. EPA stated that that was not going to happen, and DOE-RL agreed, adding that it was the philosophy at the time the decision was made. Ecology stated its position was that the milestone is at risk. Ecology added that in the next two years, the RI/FS schedules for all of the canyons need to be established because Ecology will need to refer to the schedule in the permit. DOE-RL stated that the milestone for the submittal schedule is in the September/October 2015 time frame.

Planned Activities January – June 2015 – DOE-RL stated that the B Plant prefilter change-out used to be done annually, and it has been skipped for the past two years. DOE-RL indicated that by delaying the prefilter change-out, it would save in both cost and worker REM exposure. Two of the three tents are set up, and the prefilter change-out was expected to be completed in about three weeks, but it has been extended to about five weeks due to resources going to the PUREX stack issue. Ecology noted that it is being kept apprised of the PUREX stack issue.

Issues – DOE-RL provided an update on an issue regarding the Canister Storage Building (CSB) that was not included in today's handout about a Potential Inadequacy in the Safety Analysis (PISA) and Unresolved Safety Question (USQ) at the CSB due to 15 multi-canister overpacks (MCOs) that are not welded. DOE-RL noted that the rest of the MCOs are welded, and the 15 MCO's were held back as part of the OCRWM monitoring program. DOE-RL stated that the MCO's have a crushable tin gasket on the monitoring port that is not adequately certified, and it was discovered via OCRWM document review. DOE-RL stated that it has entered into the USQ process, and that the gaskets are not pedigreed to the level that nuclear safety prefers them to be. It was noted that the gaskets have not failed, and they are general service and not safety significant in nuclear safety space.

Ecology referred to an inspection that was conducted at B Plant last year, and there is one corrective action associated with permitting that needs to be completed. DOE-RL responded that the information was received from Ecology on March 12, 2015. Ecology stated that the surveillance and maintenance plan at B Plant was reviewed internally, and following discussion with EPA, there will be a discussion with DOE-RL. DOE-RL asked if the subject was related to EPA's February 19, 2015 email. Ecology responded that it was related. DOE-RL stated that an internal meeting is scheduled today, and EPA's February 19 email will be discussed in preparation for meeting with Ecology.

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

Accomplishments – (1st Quarter 2015) River Corridor - DOE-RL noted that today's report covers the October – December 2014 time frame, but that additional progress will be pointed out. DOE-RL reported that the draft 100-F/IU RD/RAWP work plan will be submitted to EPA on Monday (3/23/15). DOE-RL stated that the Rev. 0 300 Area RDR/RAWP was submitted, and work is proceeding at risk per the recommendation of EPA because there would be no technical issues. DOE-RL noted that it is more of a cultural resource review type of issue. DOE-RL stated that procurement for the chemicals is being looked at, and the drilling contracts are being awarded, with the drilling to start this summer. DOE-RL noted that the intent is to hit the low river water month in the fall. EPA asked about the meeting with the Yakama Tribe. DOE-RL responded that the attorneys have been meeting and requested three months, and the Department of Justice directed the attorneys to complete their discussions in two months. EPA noted that the meeting time frame is in early May 2015, but a date had not been selected yet.

Accomplishments (1st Quarter 2015) Central Plateau – DOE-RL reported that the

uranium treatment skid was received earlier this month, and it has been moved into the building. The skid will be anchored and cement will be poured to stabilize it, and it is anticipated to have the uranium system running this summer. DOE-RL noted that the milestone is to have the system in place by summer 2016, and efforts are under way to get that completed earlier. DOE-RL noted that page five of today's handout has two pictures of the uranium skid, with one picture showing the piping and controls, and one picture showing the vessels. DOE-RL stated that the skid is set up so that if one of the vessels fails, it can be pulled out and another one put in. DOE-RL added that it's not a simple process to pull one of the vessels out. It was noted that the skid weighs 38,000 pounds.

Ecology stated that it received a document that outlines DOE-RL's plan to revise several sampling analysis plans (SAPs) in the next few years, and asked if DOE-RL is still planning on those SAP revisions. DOE-RL responded that it is still planning to revise the SAPs. Ecology stated that there is an issue with the groundwater SAP for 200-PO-1, due to DOE-RL's intent to eliminate two contaminants of concern, and the justification is based on a supplemental RI that won't be submitted until June 2015. DOE-RL acknowledged Ecology's issue, and suggested providing the justification before the RI is sent in June. DOE-RL added that it will work with Ecology on the issue. DOE-RL stated that the intent is to work with Ecology on the 207-A closure plan that is being revised, and to go through the revisions with Ecology in an effort to understand its concerns. Ecology asked about a time frame for meeting to discuss the revisions. DOE-RL responded that the revised closure plan for 207-A should be completed within a week, and then a meeting would be scheduled with Ecology.

Ecology noted that of the five closure plans that were submitted almost a year ago, very little progress has been made on the first two, and it was about to reject the closure plans as not meeting the milestone because they didn't meet the regulations. Ecology indicated that it will hold off on rejecting the closure plans if there is positive movement on getting viable closure plans that can be put into the permit. DOE-RL stated that the intent is to use the 207-A SAP as the pilot for the rest of the SAPs that will be revised, and the push is to complete the 207-A SAP.

Ecology suggested that DOE-RL use the 216-S-10 closure plan for reference as a viable closure plan. DOE-RL responded that it would look at the 216-S-10 closure plan.

DOE-RL stated that it is working on the RI/FS work plans for 200-SW-2, 200-WA-1 and 200-DV-1. DOE-RL indicated that the 200-WA-1 milestone was completed several years ago. DOE-RL added that 200-SW-2 and 200-DV-1 have milestones that are due at the end of March 2015, and that 200-DV-1 will be

submitted today, 200-SW-2 will be submitted next week, and 200-WA-1 will be submitted in April 2015. Ecology asked about the 200-IS-1 work plan, stating that it should be included on the list in today's handout. DOE-RL agreed that the IS-1 work plan could be added with the status that it's being prepared, but it was not included because it's still in dispute. Ecology stated that IS-1 is in dispute until a few issues are resolved, and then the parties will agree to extend the milestone. DOE-RL agreed, adding that the three work plans were included today because they are coming out in March and April 2015. DOE-RL added that IS-1 will be discussed later today during the milestone discussion.

DOE-RL noted that approval of the 200-DV-1 perched water action memorandum was received, and it will be implemented once the uranium skid is operational, and that will allow the perched water to be treated at the 200 West Pump and Treat.

Milestone Summary:

M-015-112 – DOE-RL indicated that both DOE-RL and Ecology are not in a position to sign the change package by March 30, 2015. Ecology concurred, adding that it is being reviewed internally with its attorney to resolve additional questions and to be able to have a clear path forward. DOE-RL asked about extending the dispute until the end of April 2015. Ecology responded that all of the issues would not be resolved in a month, and that it would have further internal discussion and follow up with DOE-RL with a proposed time frame to extend the dispute.

M-015-21A/92A/92B – DOE-RL stated that a change package is being prepared for these three milestones, and the package will be transmitted this month. DOE-RL noted that a draft change package had been provided to Ecology. Ecology stated that part of the hesitation with signing the change package is the need to understand the whole strategy for the 200 Area, and that further internal discussion is needed. DOE-RL agreed with Ecology's statement, adding that a discussion is scheduled next Thursday (3/26/15) on the M-015/M-016 milestone series. Ecology indicated that it would wait until after next Thursday's discussion to understand what the direction is. DOE-RL stated the assumption is that the parties will be going into dispute and the entire M-015 series will have to be reviewed.

DOE-RL pointed out that a notification letter needs to be sent to Ecology by next Thursday or Friday, along with the change package. Ecology suggested that DOE-RL make note of its just cause, because Ecology does not agree with the cause being appropriated funding or that DOE-RL discussed and reached agreement with Ecology on priorities. Ecology added that if DOE-RL does not remove those justifications, the change package will be rejected. DOE-RL

responded that it is up to the attorneys to decide the legal stance on reaching priorities. Ecology responded that if DOE-RL chooses to say that agreement on funding priorities was reached, documentation needs to be provided that priorities were discussed with Ecology and that agreement was subsequently reached.

Ecology noted that several years ago during negotiations, 200-EA-1 and 200-IS-1 were combined for the RI/FS report. Ecology stated that the EA-1 and IS-1 milestones need to be separated because there are several waste sites in IS-1 in the 200 West Area, and the 200 West Area is going first. Ecology added that in order for DOE-RL to do its work efficiently, IS-1 needs to be done more along the lines of the schedule for WA-1 than EA-1. DOE-RL agreed with Ecology's statement.

M-015-91B – DOE-RL noted that all of the characterization and the work identified in the work plan cannot be completed by the end of December 2015 with the draft work plan being submitted in April 2015. This milestone will not be met, and a change package is being prepared and a notification letter will be submitted.

M-015-93B – DOE-RL stated that it does not anticipate there will be enough time to get all of the characterization and work done after the work plan is approved and be able to meet the milestone due date. DOE-RL noted that this milestone will be part of the greater M-015 series negotiation.

M-016-00 – DOE-RL noted that this milestone is at risk, although all of the groundwater activities are on schedule and they are not causing the milestone to be at risk. DOE-RL added that there are other projects that impact M-016-00.

M-016-125 – DOE-RL stated that the RD/RA work plan for 200-PW-1/3/6 is on schedule and will be submitted this summer.

M-016-190 – DOE-RL stated that the wells for the uranium extraction have been completed, and the awards are being let to drill the iodine injection wells, which should be completed this summer.

M-016-110-T03 – DOE-RL stated that the barrier has been installed in the hot spot, and the remaining work is being assessed to determine whether there is enough benefit to putting in the rest of the barrier where there aren't really any hot spots or if the current barrier is enough to contain the strontium at this point. DOE-RL noted that when the M-015/-016 series are discussed, it won't be just groundwater; it will be the entire series and that will pull in other projects like Sludge, Central Plateau D&D work, and M-16-69 for the 300 Area.

M-024-00 – DOE-RL noted that most of the activities are on schedule, and

preparations are being made to initiate discussions of well commitments. DOE-RL has a proposed rolling list for the next three years that will be discussed with Ecology.

M-085-02 – DOE-RL stated that this milestone is to provide a schedule for the RI/FS documents, and the plan is to submit the schedule on time. DOE-RL noted that this milestone ties into the whole strategy of RI/FS documents, which is the M-015 series, but the RI/FS documents under this milestone are not part of M-015.

Project Baseline Performance – DOE-RL stated that the project is slightly ahead on cost and schedule performance

Planned Activities – 6 Month Look Ahead January-June 2015:

Central Plateau - DOE-RL stated that construction of a pipeline will be initiated that will allow the draw-down test at 200-BP-5 to be done, and the pipeline will go from the BX/BY tank farm over to 200 West. DOE-RL is working on an EE/CA on BP-5 to potentially continue pumping as a removal action after the drawn-down is done. DOE-RL noted that the perched water alone doesn't provide enough volume to fill the pipe to send to the 200 West Pump and Treat, and some other fluid is needed in the pipeline. DOE-RL added that the uranium concentrations are high enough that it's better to blend in the additional fluid to avoid perturbing the system.

DOE-RL stated that it has been working with Ecology on developing the risk evaluation report from the RI/FS work plan for 200-IS-1, and that a lot of progress has been made. Ecology agreed that progress has been made. DOE-RL stated that the interface with the other waste sites needs to be reviewed, and a meeting was held to discuss that. Ecology stated that the presentation during the meeting was helpful, and another meeting is scheduled.

River Corridor – DOE-RL stated that the draft interim RD/RAWP/O&M plan for the 100 K Area are being revised because they don't reflect what is out there and it needs to be corrected. Ecology asked if the 100 D/H RD/RAWP/O&M and monitoring plan are for the pump and treat system in 100-HR-3. DOE-RL responded that the documents are for 100-HR-3. Ecology stated that the documents are in review and comments are being generated, and they are being reviewed as separate entities due to low resources. Ecology added that the order of review is the RD/RAWP, the O&M plan, followed by the monitoring plan.

Ecology asked how DOE-RL is planning to document removal of part of the pipeline and the transfer station for the 100-HR-3 cold standby facility. Ecology noted that the ROD specifies the old systems that are not being used are supposed

to be in cold standby. DOE-RL stated that it would work with Ecology to get the proper documentation in place. Ecology asked if DOE-RL intends to no longer have the two old systems in cold standby and tear them down. DOE-RL responded that that is the intent. EPA suggested addressing it in the final ROD. Ecology stated that it could be addressed in the final ROD, which is close to being issued, and that DOE-RL needs to follow the proper paperwork. Ecology stated that it is reviewing the proposed plan, and it is scheduled to go out for public comment in August 2015. Ecology suggested that a short ESD could be submitted in the interim. DOE-RL responded that it would follow up on the possibility of doing an ESD.

Ecology stated that as soon as the meeting takes place regarding the 300 Area RDR/RA work plan, it is ready to approve the work plan so that the field work for sequestration can be done this fall during the low river window.



River Corridor/Central Plateau Milestone Review
March 19, 2015
AGENDA

Chairperson: R. Corey

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

Tri-Party Agreement Quarterly Milestone Review

March 19, 2015

<u>Name</u>	<u>Organization</u>
<u>Jane V Borgheese</u>	<u>CHPRC</u>
<u>CAROLYN NOONAN</u>	<u>MSA</u>
<u>Benjamin Vannich</u>	<u>DOE</u>
<u>Michael Turner</u>	<u>MSA</u>
<u>Peter Bengtson</u>	<u>WCH</u>
<u>Jeb Blackburn</u>	<u>WCH</u>
<u>Theresa Howell</u>	<u>WCH</u>
<u>Keelan AbenTh</u>	<u>DOE</u>
<u>Melinda J Brown</u>	<u>Ecoly NWP</u>
<u>Naomi JASCHKE</u>	<u>DOE</u>
<u>KEN MOSER</u>	<u>MSA-RTM</u>
<u>Glenn R. Korzek</u>	<u>DOE-RL/PCD</u>
<u>Stephen Korenkiewicz</u>	<u>RL</u>
<u>Michael Collins</u>	<u>DOE-RL</u>
<u>AUGUSTINE ACHIANGA</u>	<u>RL</u>
<u>Tom Teyner</u>	<u>DOE-RL</u>
<u>Mike Cline</u>	<u>DOE-RL</u>
<u>Al Farabee</u>	<u>DOE-RL</u>
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TPA Decision Document List

	Geographical Areas	Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues	
1	Central Plateau Source Inner Area	200-IS-1 200 East Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS-1 OU to Ecology Dispute Resolution	2/28/2016	TBD	D. Hildebrand	B. Day	Nina Menard	Ecology	DOE and Ecology agreed, on January 29, 2015, to extend dispute resolution at the project manager level to March 30, 2015. Issues preventing the dispute from being resolved are associated with the waste site identification and TSD designations (Change Packages C-13-01 & C-14-02). The list of 200-IS-1 OU waste sites and TSD status are not agreed with Ecology. (anticipate an additional 230 waste sites for 200-IS-1). DOE is awaiting Ecology feedback. Dispute Extension is being drafted.	
2	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan	M-015-92A: Submit a RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study work plan for the 200-EA-1 operable unit to Ecology To Be Missed	6/30/2015	TBD	D. Hildebrand	P. Burke	Nina Menard	Ecology	Project not funded in FY14 or FY15; milestone will be missed. * See Note below.	
3	Central Plateau Source Inner Area	200 East Area	TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 RO), 216-A-28 Ditch (DOE/RL-2006-53 R1), 216-A-36-8 Crb (DOE/RL-2005-90 RO), 216-A-37-1 Crb (DOE/RL-2005-88 RO), and 216-B-63 Trench (DOE/RL-2006-11 R1)	M-017-02: Submit Revised Closure Plan to support TSD closure for five (5) TSD Units Complete	MS Completed 6/23/14	6/24/2014	3/11/2015	J. Astel	Phil Burke	Nina Menard	Ecology	Ecology letter pending.
4	Central Plateau Source Inner Area	200-EA-1 and 200-IS-1 200 East Inner Area/Pipelines	CMS & FS Report(s) & PCAD(s)/PP(s)	M-015-92B: Submit Corrective Measures Study & Feasibility Study Report(s) and Proposed Corrective Action Decision(s)/Proposed Plan(s) for the 200-EA-1 and 200-IS-1 OUs to Ecology To Be Missed	12/31/2016	TBD	D. Hildebrand	P. Burke/ B. Day	Nina Menard	Ecology	TPA Change Form M-15-11-03 changed due date to 12/31/2016. Milestone will be missed. 200-IS-1 Work Plan is in progress with the delivery date still under negotiation and the 200-EA-1 Work Plan is not funded in FY14. * See Note below.	
5	Central Plateau Source Inner Area	200-IS-1	TSD - Closure Plan for the Hexone Storage and Treatment Facility TSD Unit	M-017-01: Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-S-141/142) TSD Unit. Complete	MS Completed 7/16/2010			D. Hildebrand	Phil Burke	Nina Menard	Ecology	Comments received. Project not funded to address comments.
6	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	RI/FS Work Plan	M-015-91A: Submit a Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA Complete	MS Completed 12/7/2011			J. Sands	Phil Burke	Craig Cameron	EPA	Received EPA comments 5/15/12. Draft B RI/FS WP is planned to be submitted to EPA in April 2015.
7	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	FS/PP	M-015-91B: Submit Feasibility Study report and Proposed Plan for the 200-WA-1 operable unit to EPA To Be Missed	12/31/2015	TBD		J. Sands	Phil Burke	Craig Cameron	EPA	Milestone will be missed due to funding and delays in the completion of the 200-WA-1 RI/FS Work Plan. * See Note below.
8	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS Work Plan - Draft B	M-015-113: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-SW-2 OU to Ecology On Schedule	3/31/2015	4/1/2015	8/30/2015	D. Hildebrand	Phil Burke	Deborah Singleton	Ecology	Milestone description stated deliverable will include a schedule of completion dates for major tasks and deliverables.
9	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS & PCAD/PP	M-015-93B: Submit RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study Report and Proposed Corrective Action Decision/Proposed Plan for the 200-SW-2 OU to Ecology At Risk	12/31/2016	TBD		D. Hildebrand	Phil Burke	Deborah Singleton	Ecology	Milestone will be missed due to funding and delays in the completion of the 200-SW-2 RI/FS Work Plan. * See Note below.
10	Central Plateau Source Inner Area	200-PW-1/3/6, CW-5 200 West and 200 East	RD/RAWP	M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200 CW-5 and 200-PW-1/3/6 to EPA as described in section 12.4 of the associated ROD. On Schedule	9/30/2015	10/1/2015	11/16/2015	J. Reddick	P. Baynes	Emy Lafja	EPA	On schedule.
11	Central Plateau Source Deep Vadose Zone	200-DV-1 Deep Vadose Zone	RI/FS Work Plan	M-015-110A: Submit RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of deep vadose zone contaminants. On Schedule	3/31/2015	4/1/2015	6/1/2015	J. Morse	M. Byrnes	Dib Goswami	Ecology	On schedule.
12	Central Plateau Source Deep Vadose Zone	200-DV-1 Deep Vadose Zone	CMS/FS and PP/PCAD	M-015-110B: Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology To Be Missed	9/30/2015	TBD		J. Morse	M. Byrnes	Dib Goswami	Ecology	Milestone will be missed. This milestone cannot be completed until the RI/FS & RFI/CMS work plan is approved and the field characterization completed. * See Note below.

TPA Decision Document List

Geographical Areas	Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
13 Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OK-1 Outer Area	Central Plateau Outer Area RI/FS work plan/SAP	None		TBD	R. Vennoth	PHI Burke	L. Barlow	EPA	Outer Area RI/FS work plan/SAP is not funded in FY15. The work proceeds the RI/FS report (M-015-349).
14 Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OK-1 Outer Area	FS/PP	M-015-188: Submit a revised Feasibility Study Report and revised Proposed Plan(s) for the 200-CW-1, 200-CW-3, and 200-OK-1 Operable Units at Waste Sites in the Outer Area of the Central Plateau to EPA.	TBD	11/1/2015	12/15/2015	PHI Burke	L. Barlow	EPA	Approved Change Form M-15-140 identified that a schedule will be provided by 10/30/2015 for completion of this milestone. * See Note below.
15 Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OK-1 Outer Area	FS/PP	M-015-188: Submit a revised Feasibility Study Report and revised Proposed Plan(s) for the 200-CW-1, 200-CW-3, and 200-OK-1 Operable Units at Waste Sites in the Outer Area of the Central Plateau to EPA.	Milestone Completed 4/18/2013	4/19/2013	7/17/2013	PHI Burke	Mina Menard	Ecology	NRD was issued and reports submitted. Major issues have been identified related to non-TSD past-practice contamination and these issues remain unresolved.
16 Central Plateau Groundwater	200-SP-5, 200-PO-1, 200-SP-5 RI Report	200-SP-5 RI Report	200-SP-5 RI Report	4/15/2015	4/15/2015	J. Morse	Curt Wittreich	Mina Menard	Ecology	Preparation of the SP-5 RI Report in progress and on schedule for Draft A delivery (6/18/2015). On schedule for Draft A RI Report. Additional delivery by 8/30/2015. Closure savings have been performed over the last several months.
17 Central Plateau Groundwater	200-SP-5, 200-PO-1, 200-SP-5 RI Report Addendum	200-PO-1 RI Report Addendum	200-PO-1 RI Report Addendum	7/1/2015	7/1/2015	J. Morse	Curt Wittreich	Mina Menard	Ecology	Replaces EIT with the 200W P&T for treatment of 200-SP-5 generated groundwater.
18 Central Plateau Groundwater	200-SP-5, 200-PO-1, 200-SP-5 RI Report Addendum	200-SP-5 Feasibility Test Plan Rev 2	200-SP-5 Feasibility Test Plan Rev 2	6/30/2015	TBD	J. Morse	Curt Wittreich	Mina Menard	Ecology	Work initiated in FY15 with an expected Draft A delivery to Ecology by 9/30/2016. Ecology comments are being provided for March 2016. TPA change package being drafted. * See Note below.
19 Central Plateau Groundwater	200-SP-5, 200-PO-1, 200-SP-5 RI Report Addendum	FS/PP	M-015-234: Submit a 200-SP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology. To Be Revised	6/30/2015	TBD	J. Morse	Curt Wittreich	Mina Menard	Ecology	Work initiated in FY15 with an expected Draft A delivery to Ecology by 9/30/2016. Ecology comments are being provided for March 2016. TPA change package being drafted. * See Note below.
20 Central Plateau Groundwater	200-UP-1, 200 West Area Groundwater	Technology Evaluation Plan	M-016-192: Submit a 129 Technology Evaluation Plan, Draft A to EPA as defined in the 200-UP-1 ROD/RA WP Addendum. On Schedule	6/17/2016	6/17/2016	N. Bhow	PNWL	E. Lajoie	EPA	On schedule.
21 River Corridor	100-BC-1, 100-BC-2, 100-BC-5, 100-BC	RI/FS Reports and Proposed Plan	M-015-201: Submit RI/FS Report and PP for 100-BC. On Schedule	12/15/2016	12/16/2016	G. Simon	PHI Burke	L. Barlow	EPA	* See Note below.
22 River Corridor	100-RR-1, 100-RR-2, 100-HR-1, 100-HR-2, 100-RR-3	RI/FS Reports and Proposed Plan	M-015-202: Submit FS & PP for HR 1/2/3 and DR 1/2. On Schedule	Target Completed 12/14/2012		J. Hanson	Ella Ferit	Mina Menard	Ecology	The RI/FS is complete. The PP is pending comments from Ecology legal and the EPA. Recently received Board Review that was held on January 27, 2015.
23 River Corridor	100-LU-1, 100-FR-2, 100-FR-3, 100-FR-4, 100-LU-6	Record of Decision	Complete	Complete		G. Simon	PHI Burke	C. Guzzetti	EPA	Complete.
24 River Corridor	100-RR-1, 100-FR-2, 100-FR-3, 100-LU-2, 100-LU-4	Remedial Design / Remedial Action Work Plans	M-015-66701: Submit RI/FS Report and PP for 100-4. On Schedule	Target Completed 8/21/2011	3/30/2015	4/15/15	PHI Burke	C. Guzzetti	EPA	Due date is 180 days after ROD is complete (3/7/2015) On Schedule.
25 River Corridor	100-RR-1, 100-RR-2, 100-RR-4, 100-K	RI/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for RR 1/2. On Schedule	Milestone Completed 5/24/2013	6/25/2013	10/7/2013	PHI Burke	C. Guzzetti	EPA	RI/FS and PP for RR-0 are on hold pending characterization. The characterization boreholes at 100-RR-1 and RR-2 are being drilled. The characterization boreholes at 100-RR-3 and RR-4 are being drilled.
26 River Corridor	100-HR-1, 100-HR-2, 100-H	RI/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for RR 1/2. On Schedule	Milestone Completed 5/24/2013	6/25/2013	10/7/2013	Ella Ferit	C. Guzzetti	EPA	Ecology is not reviewing the PP until RI/FS comment resolution is complete. Disposition meetings with EC are ongoing. Comment resolution extended to March 16, 2015.
27 River Corridor	100-FR-2, 100-FR-5, 300	Remedial Design / Remedial Action Work Plans	M-015-75: Submit FS/PP for RR 1/2. On Schedule	Milestone Completed 5/24/2013	3/7/2014	8/8/2014	Bill Fought	A. Boyd	Ecology	Provided EPA with the New On Integrated ROD/RAWP and groundwater addendum on 10/15/2014. Awaiting EPA's legislative. Proceeding if this per EPA's request.

Notes:
 - The milestone is part of the M-015 Negotiation Package.
 - Yellow highlighted items reflect completed milestones/targets. Left on long list for follow-up status.
 - Blue text reflects changes from previous months.

RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: October - December 2014



Tri-Party Agreement

River Corridor Milestones:

M-16

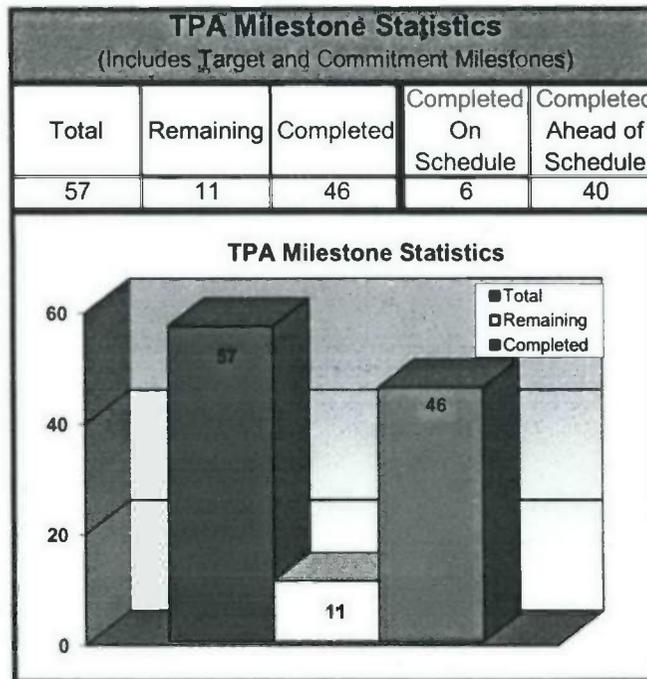
M-89

M-94

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

March 19, 2015

Protecting the Columbia River



Quarterly Summary (October – December 2014)

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

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

RIVER CORRIDOR CLOSURE PROJECT

For Period: October - December 2014

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2016)				
M-16-149	03/31/15 (Extended to 3/31/16 per TPA CN M-16-15-02)	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	To be missed (On schedule as of 2/2/15)	Cultural clearance has delayed the startup of remediation at 600-326, 600-329, and 600-334:2. The discovery of anomalous items at 600-358 and changed scope of 600-349 have also caused delays. The change package extending the date to 3/31/16 was approved by EPA on 2/2/15.
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)	At risk	Milestone change package is being prepared for negotiation with EPA.
M-16-161	03/31/16	Complete Area Interim Response Actions for 18 100-D Area Sites, 10 100-H Area Sites, and 600-385, including revegetation of 100-D and 100-H Waste Sites.	On schedule	Cultural review for the 600-385 waste site may affect ability to complete the milestone by 3/31/16.

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

M-89-06	06/30/16	Submit to Ecology in Accordance with Procedures in WAC 173-303-830(4)(b), a Request for a Class 2 Modification to Hanford Dangerous Waste Permit, to Include in Permit the "324 Bldg. Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73 revised as necessary to address releases to soil and to ensure compliance with requirements of WAC-173-303-610. DOE's revised closure plan will include a schedule for completing closure activities.	On schedule	
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TPA MS No.	Compliance Date	Title	Status	Comments
M-94 Milestones - 300 Area Surplus Facilities Disposition (milestones through 12/31/2016)				
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

- Began revegetation activities at 100-N Area.
- Initiated Tier 4 excavation of 100-D-100.
- Received approval of 8 waste site closure documents.
- Initiated unexploded ordnance (UXO) burn pit remediation on supplied air breathing.



Revegetation at 100-N Area



Below-Grade Demolition of 309 Building

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

- Completed transmittal of 60% design for remediation of 300-296 waste site under 324 B-Cell satisfying completion of performance milestone PM37.
- Completed backfill of geoprobe excavation on west side of 324 B-Cell.

M-94 – 300 Area Surplus Facilities Disposition

- Completed 351 substation demolition.
- Completed 309 Building demolition/loadout to -32' level.

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

ERDF

- For period October-December, disposed ~ 273,500 tons of waste; bringing total to ~ 16.9 million tons disposed in ERDF.
- Received 309-TW-3 tank from 300 Area.
- Completed installation of mechanical locking system on all roll-on/roll-off (RO/RO) containers to prevent loss of control during loading/unloading.
- Developed and implemented additional controls to mitigate airborne hazard from 618-10 waste.

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Complete UXO remediation at 600-358.

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.
- Procure equipment for mockup activities and long-lead items for remediation of 300-296 waste site.
- Continue construction of mockup facility for remediation of 300-296 waste site.



Adding Void-Fill Flood Grout to 309 PRTR at ERDF

M-94 – 300 Area Surplus Facilities Disposition

- Continue below-grade demolition of 309 Building.

ERDF

- Support Closure Operations project accelerated transportation and disposal production for closure.
- Receive and offload long-length items from Tank Farms as weather permits.

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

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Sep	Dec	Sep	Dec
D4	648,703	646,210	640,415	624,175	565,385	-14,482	-16,240	62,438	58,790
Reactor ISS	75,902	81,777	75,902	75,902	81,777	0	0	-5,875	-5,875
Field Remediation	973,011	907,615	879,430	798,479	744,771	-80,174	-80,950	42,652	53,708
Waste Operations	622,157	501,603	580,344	592,120	468,228	7,395	11,776	124,199	123,892
ESFC	78,049	60,578	77,215	74,663	58,111	-2,860	-2,552	16,339	16,552
Mission/General Support	397,515	453,998	390,401	390,401	353,008	0	0	41,330	37,393
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency						0	0	0	0
TARGET COST TOTAL	2,799,317	2,655,530	2,647,686	2,559,720	2,275,027	-90,121	-87,966	281,315	284,693

Schedule Variance (PMB): (\$87,966K)

- Variance associated with 618-10, 100-D and 100-H remediation delays, as well as delayed start of remaining waste sites around the 309 Building. 618-11 negative schedule variance is due to funding constraints.
- Delay in D4 due to waste site discovered beneath 324 Building and 309 Building demolition delay due to differing site conditions

Cost Variance (PMB): \$284,693K

- 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

600-385 Waste Site Cultural Resource Review

- **Issue:** Although discussions with tribal representatives has begun, the progress is uncertain and any delays of the Washington State Historic Preservation Office (SHPO) approval would place completion of M-016-161, due March 31, 2016, at risk.

Status: Discussions are in progress with the tribes regarding 600-385 cultural mitigation actions with a goal to have an approved memorandum of agreement in August 2015, enabling start of remediation activities targeted to complete prior to the November eagle nesting season.

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

First Quarter FY 2015
March 19, 2015

CH2MHILL
Plateau Remediation Company



OUR
LEGACY



Accomplishments

1st Quarter 2015



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 – Missed)**
 - Completed Annex shell
 - Completed interior stair installation.
 - Completed interior metal wall framing and gypsum wall board installation.
 - Initiated piping hanger and support installation.



KW ANNEX: Interior stair installation



KW ANNEX: Pipe hanger & support installation

Accomplishments

1st Quarter 2015



Sludge Treatment Project Phase 1-

Removal of Containerized Sludge - *(continued)*

- At Maintenance and Storage Facility (MASF), testing, procedure development, and fabrication of ECRTS tooling and equipment in support of ECRTS continues.
- Installation of in-basin electrical equipment continues.
- Mechanical equipment planning in support of in-basin construction continues.
- Met with EPA and Washington State Department of Ecology to discuss the path forward for environmental permitting for sludge storage at T Plant.

Accomplishments

1st Quarter 2015



Sludge Treatment Project Phase 1-

Removal of Containerized Sludge - *(continued)*

- At Maintenance and Storage Facility (MASF), testing, procedure development, and fabrication of ECRTS tooling and equipment in support of ECRTS continues.
- Installation of in-basin electrical equipment continues.
- Mechanical equipment planning in support of in-basin construction continues.
- Met with EPA and Washington State Department of Ecology to discuss the path forward for environmental permitting for sludge storage at T Plant.

Accomplishments

1st Quarter 2015



- **100K D4**
 - 100K Head House Area Facility Demolition
 - Completed demolition of MO-293 and MO-442 for disposal into ERDF
 - Area is now suitable for waste site remediation
- **100K Minimum Safe Activities**
 - Maintained 100K Area Minimum Safe Configuration
 - Performed radiological and waste site surveillances

Accomplishments

1st Quarter 2015



- **100K Waste Sites**

- 100KE Characterization Wells

- Completed the earthwork required for site prep
- Awarded drilling contract, field geology subcontract, and laboratory sample testing contract

Milestone Status



TPA Number	Due Date	Description	Status
M-016-175	09/30/14	Begin Sludge Removal from 105-KW Fuel Storage Basin	Missed, Dispute Resolution
M-016-173	03/31/15	Select K Basin Sludge Treat. & Pkging Technology propose new MS's	Dispute Resolution
M-016-143	12/31/15	Complete The Inerim Response Actions For The 100K Area Phase 2	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 of 105-KW Fuel Storage Basin	At Risk
M-093-28	12/31/15	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 & Removal of 105-KW FSB	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 & 105-KW Reactor ISS in Accordance with Removal Action Work Plan	On Schedule
M-016-00C	12/31/20	Complete All Response Actions In The 100K Area	At Risk

Project Baseline Performance

Contract to date through December 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	453.2	457.9	470.6	4.7	-12.7	692.7	720.2	-27.5	1.01	0.97

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	311.5	311.3	283.3	(0.1)	28.1	394.7	364.9	29.8	1.0	1.10

Numbers are rounded to the nearest \$0.1M

Planned Activities

January 2015 – June 2015



Sludge Treatment Project

- **ECRTS**

- RL to issue PDSA Safety Evaluation Report to implement Nuclear Safety Initiatives.
- Continue ECRTS process equipment fabrication.
- Initiate below water debris relocation campaign to support installation of ECRTS in-basin equipment.
- Complete electrical equipment installation and begin mechanical equipment installation in KW Basin supporting retrieval operations.

Planned Activities

January 2015 – June 2015



Sludge Treatment Project *(continued)*

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

- Continue to work Mechanical and Electrical Installations in the Annex
- Install HVAC Air Handling Unit and Instrumentation and Controls, install Ductwork Hangers, Ductwork and Test, and install HVAC Stack
- Continue to progress Interior Finishes
- Complete Installation and Connections for Fire Water Piping and Post Indicating Valve

Planned Activities

January 2015 – June 2015



Sludge Treatment Project *(continued)*

- **T Plant Storage of K Basins Sludge**
 - Finalize path forward for environmental documentation and permitting for sludge storage at T Plant

Activity ID	Activity Name	Remaining Duration	Current Start	Current Finish	FY2015			
					FQ3	FQ4	FQ1	FQ2
RL-12 SNF Stabilization & Disposition		172	02-Feb-15 A	31-Jan-16				
T-Plant RCRA Permit Evaluation		172	02-Feb-15 A	31-Jan-16				
CSCD6735	CHPRC Prepare Class II RCRA Permit Modification Package - T-Plant	43	02-Feb-15 A	04-Jun-15				
CSCD6740	RL Review Class II RCRA Permit Modification Package	15	05-Jun-15	19-Jun-15				
CSCD6745	RL/Ecology Class II RCRA Permit Modification Package Informal Workshops	15	20-Jun-15	04-Jul-15				
CSCD6750	Ecology Issues 30 Day Pre-Notice For Upcoming Public Involvement Opportunity	30	05-Jul-15	03-Aug-15				
CSCD6755	RL Submits Class II Permit Modification Announcement Letter To Ecology	30	04-Aug-15	02-Sep-15				
CSCD6760	Public Comment Period	120	03-Sep-15	31-Dec-15				
CSCD6765	Public Comment Meeting	1	01-Jan-16	01-Jan-16				
CSCD6770	Ecology To Issue Decision	30	02-Jan-16	31-Jan-16				

Planned Activities

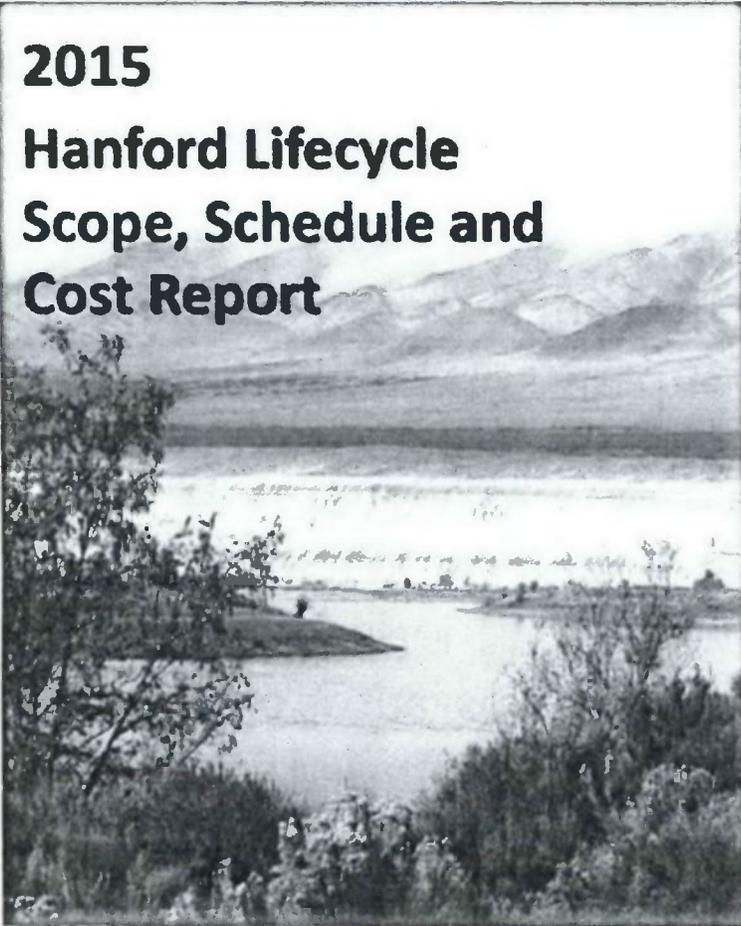
January 2015 – June 2015



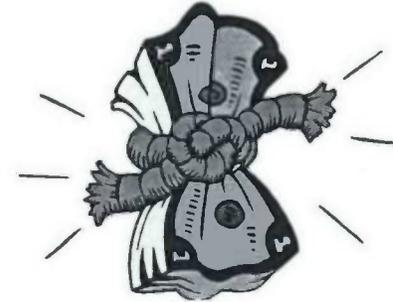
- 100K Minimum Safe Activities
 - Maintain 100K Area Minimum Safe Configuration
- 100K Waste Sites
 - Award contract for 100K Characterization Wells
 - Initiate construction of the drilling enclosure and exhaust system
 - Initiate drilling and sampling at 116-KE-3

2015

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



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



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

March 19, 2015

Stephen Korenkiewicz, DOE-RL
Lifecycle Report Project Manager



MILESTONE DESCRIPTION AND DELIVERABLE

1. The U.S. Department of Energy (DOE) shall prepare and submit to the U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology) a report setting out the lifecycle scope, schedule and cost for completion of the Hanford Site cleanup mission.
2. The initial Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) was submitted to DOE on July 25, 2011, and subsequent reports are due January 31 of each year. The 2015 Lifecycle Report is the fifth Lifecycle Report to be prepared.



RL PROGRAM MANAGERS' ASSESSMENT OF CONTRACTOR PERFORMANCE

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



SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. The Final 2015 Lifecycle Report was completed on December 15, 2014 and underwent formal review by DOE's Office of River Protection and Richland Operations Office.
2. DOE submitted the 2015 Lifecycle Scope, Schedule and Cost Report to EPA and Ecology on January 30, 2015 to satisfy Tri-Party Agreement Milestone M-036-01E.
3. The 2015 Lifecycle Report and Fact Sheet were posted on the hanford.gov website on February 23, 2015.
4. A Project Manager's Meeting was held on January 13, 2015 and another is scheduled for March 19, 2015.



SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

1. Review feedback on the 2015 Lifecycle Report (due April 30, 2015) to assess any changes for the 2016 Lifecycle Report.
2. On February 3, 2015 Ecology met with DOE to request an alternatives analysis of onsite and offsite storage costs for the cesium/strontium capsules in the 2016 Lifecycle Report. This will be discussed at the March 19, 2015 Project Manager's Meeting.
3. Prepare planning case budget input for 2016 Lifecycle Report by June 1, 2015
4. Prepare draft 2016 Lifecycle Report for DOE review by August 31, 2015.



STATUS AND 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.

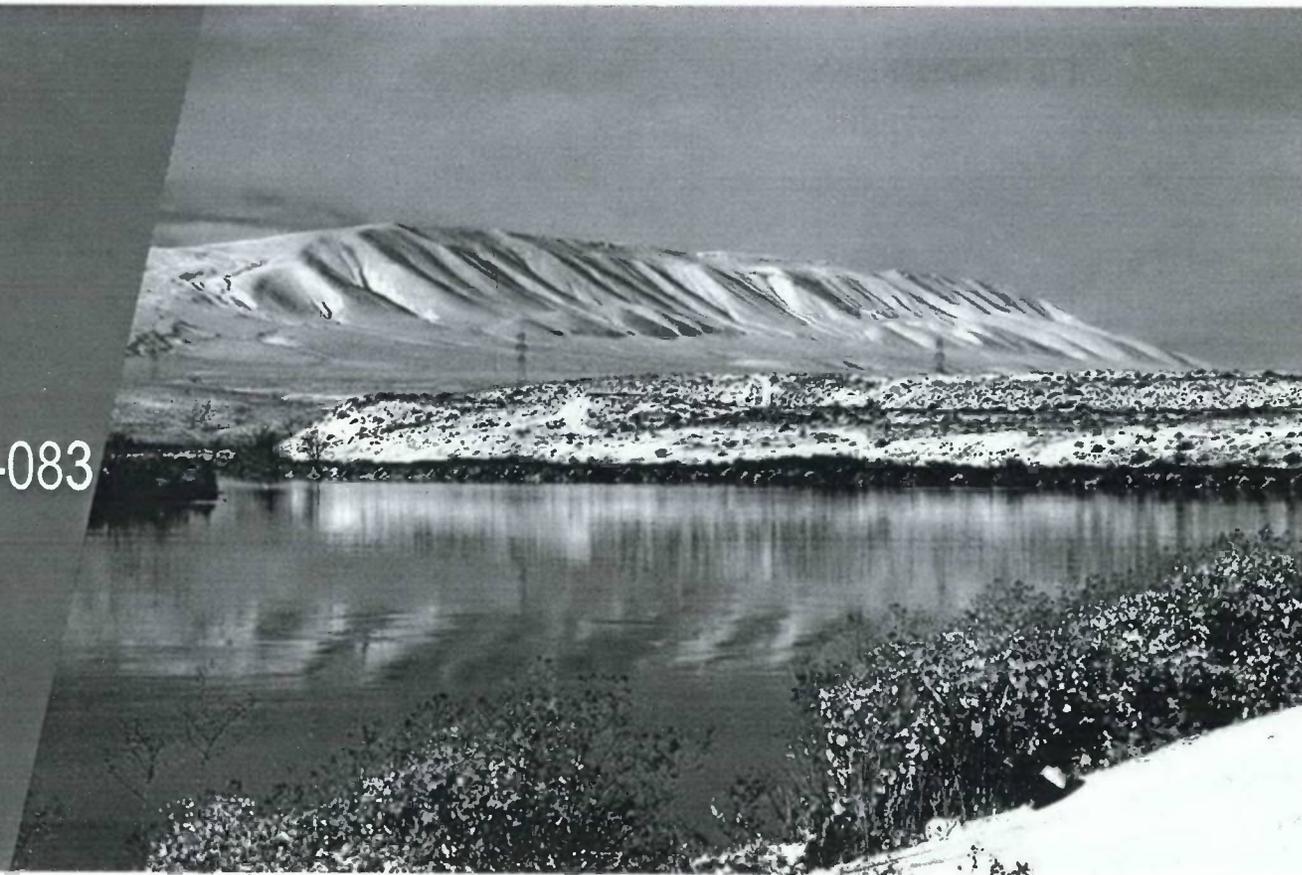


PFP Closure Project

TPA Milestone Series: M-083

Q1 FY2015

March 19, 2015



Tom Teynor, DOE Federal Project Director
Rick Bond, Ecology Project Manager

CH2MHILL
Plateau Remediation Company



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

Q1 FY2015



- Significant 242-Z (McCluskey Room) glove box progress
 - WT-3 removal (75% complete at end of quarter) (Complete January 14, 2015)
 - WT-2 removal (25% complete)
- The last glove box in 234-5Z was removed from E4 ventilation
- 5 pencil tank assemblies out of a total 41 pencil tank assemblies remain
- Documented Safety Analysis, Rev 12 is in review for approval
- Repaired canyon crane as a result of an unexpected motor malfunction

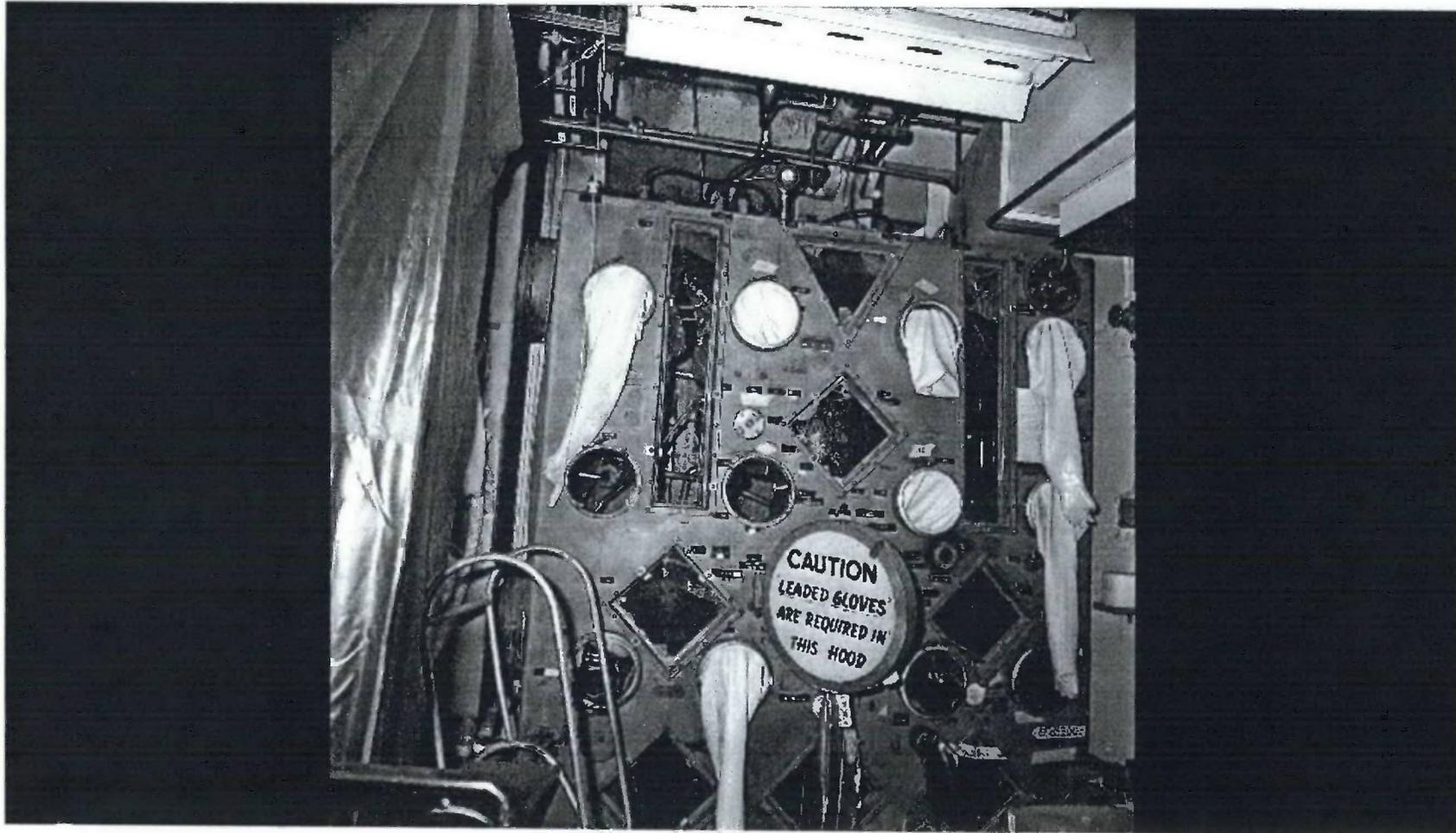


Employees in the duct level separate, bag and remove sections of ventilation duct.



Employees move a motor for the canyon crane.

Accomplishments



This video shows crews inside 242-Z removing the glove box that exploded in 1976, severely hurting Harold McCluskey.

Project Baseline Performance

Contract to Date (through December 2015)



RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	\$755,714	\$724,931	\$761,952	(\$30,783)	-4.1%	(\$37,021)	-5.1%	\$937,583	\$967,038	(\$29,456)

Issues/Challenges



Regulatory Issues

- *None*

Non-Regulatory Issues/Challenges

- *Modification of existing Documented Safety Analysis (DSA) to address demolition of PFP facilities; DSA being updated to support an incremental reduction of safety significant systems (e.g. ventilation, criticality, fire suppression).*
- *Initiated update to air dispersion models to evaluate demolition sequence and controls*
- *Demolition –developing a waste strategy to maximize efficient disposal of building debris to ERDF*

Planned Activities Through June 2015



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

- Complete Hazardous Material Cleanout in RMA process line
- Complete Hazardous Material Cleanout in RMC process line
- Initiate In situ Size Reduction starting on HC-18M glove box

234-5Z (Duct Level)

- Continue E4 duct removal in 234-5Z duct level
- Remove E4 and Process Vacuum Filter and Filter Boxes
- Continue duct level asbestos abatement
- Initiate removal of 26" process vacuum lines in 234-5Z duct level
- Continue draining of chemical lines throughout 234-5Z

243-Z

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

291-Z

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

242-Z (Americium Facility)

- Remove WT-2 Glove box from E4 Ventilation, Size Reduce and package into waste containers
- Remove WT-1 Glove box from E4 Ventilation, Size Reduce and package into waste containers
- NDA all 15 Tanks in 242-Z Tank Room with new NDA equipment

Planned Activities *Through June 2015*



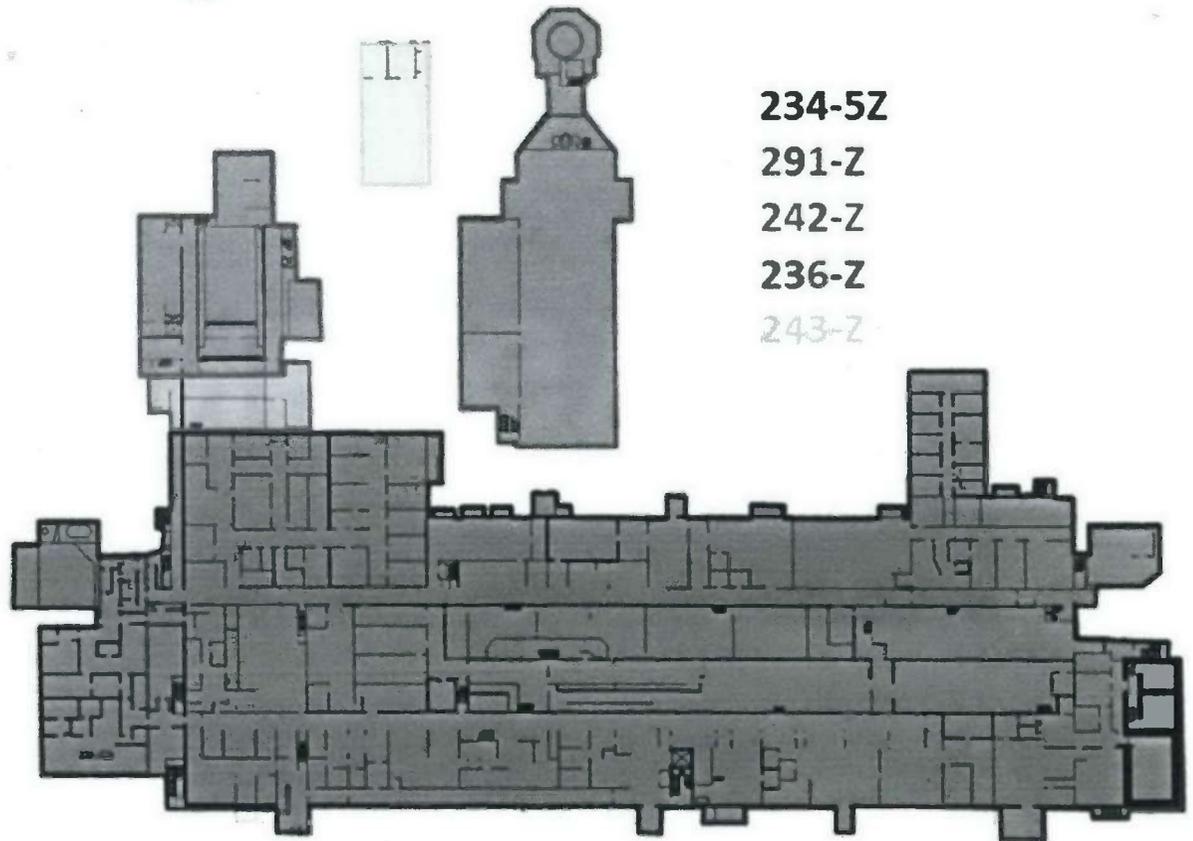
236-Z (PRF)

- Complete Pencil Tank campaign
- Award Contract for Core Drilling
- Isolate East and West Gallery Glove Boxes (1st Floor)
- South Canyon Airlock (SCA) Reactivation;
 - Prep and Remove Chem Tank from SCA
 - Characterize rooms 70, 71 and 72
- Begin canyon floor cleanout

PFP Timeline – Updated Forecast



- **Spring/Summer 2015: Demolition of 243-Z begins**
- **Spring 2016: Demolition begins**
 - April: 236-Z
 - June: 234-5Z
 - June: 242-Z
 - August: 291-Z



Backside Tour of PFP

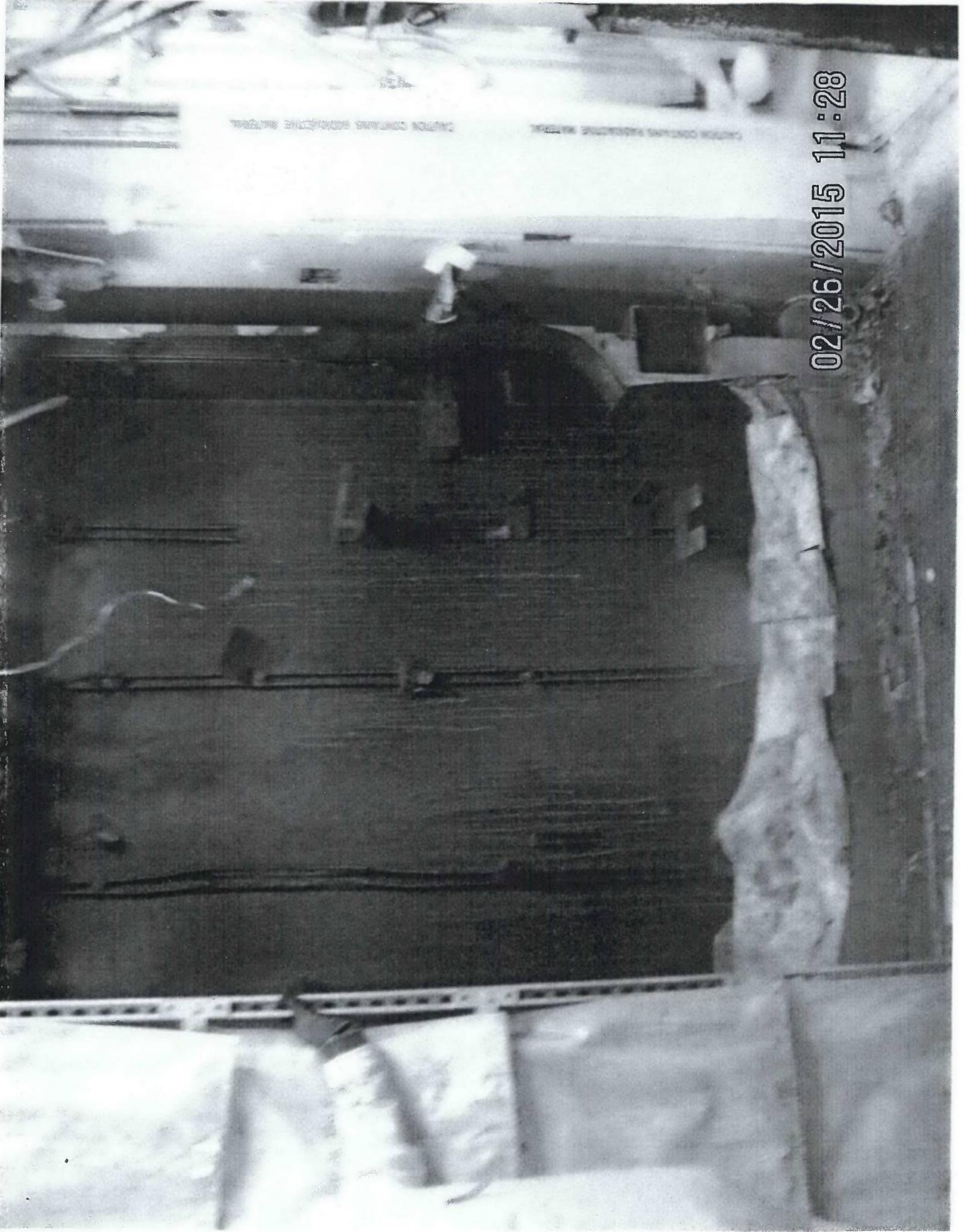


U.S. DEPARTMENT OF
ENERGY

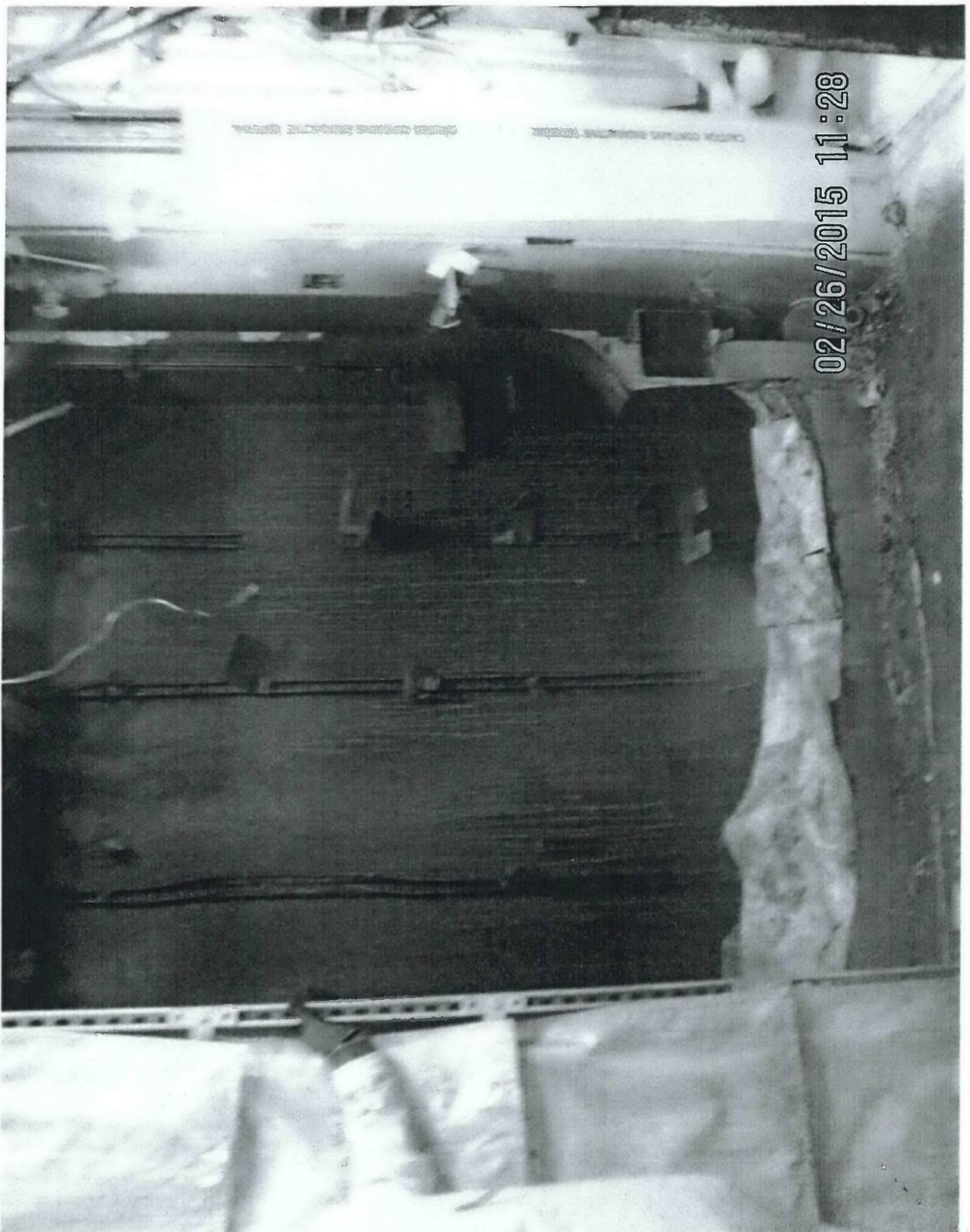
CH2MHILL
Plateau Remediation Company

Plutonium Finishing Plant
Closure Project

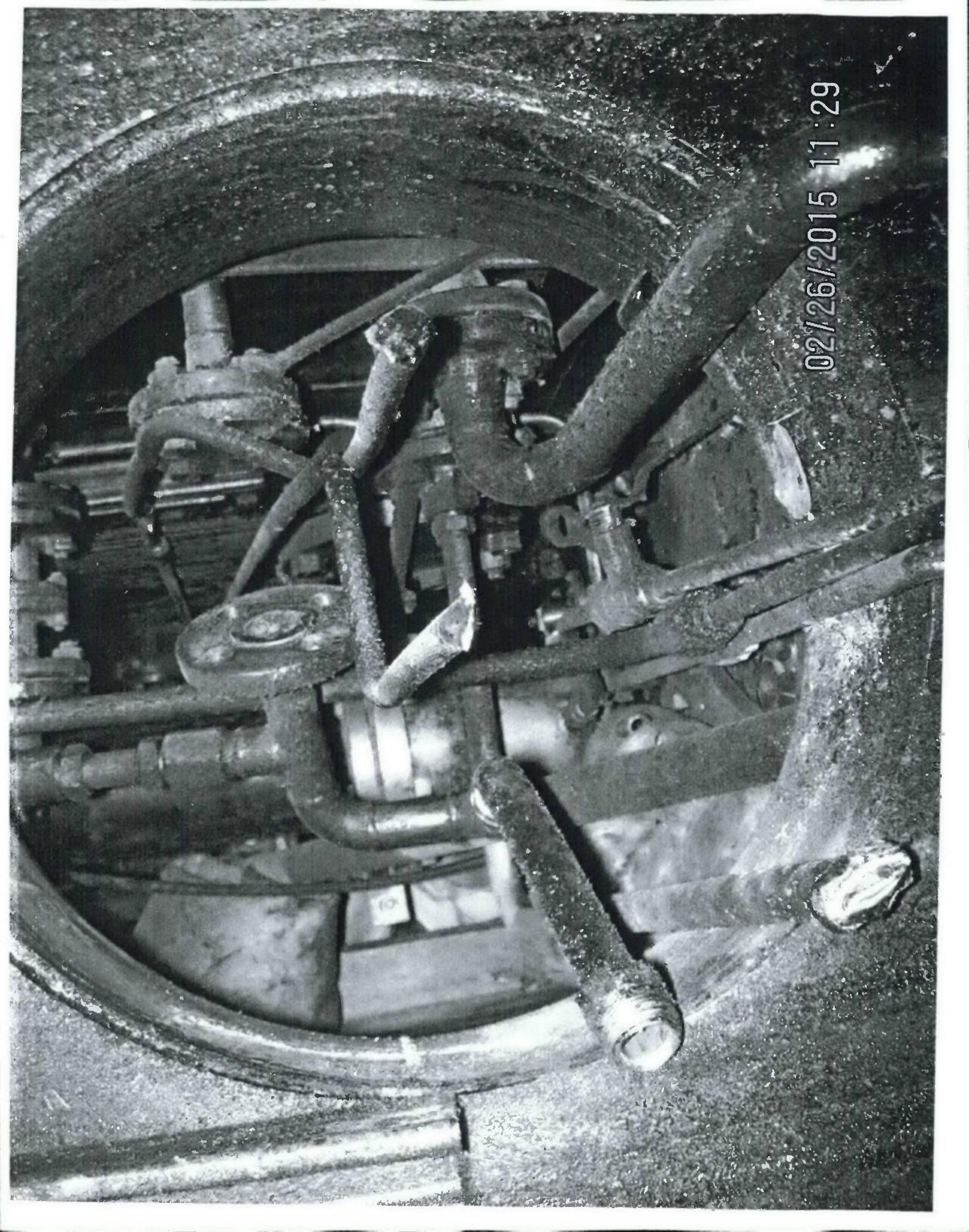
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Department of Energy – Richland Operations Office



**Solid Waste Stabilization
and Disposition Project**

RL-0013

Milestone Review

M-091/M-026

March 19, 2015



EM Environmental Management

safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov

Department of Energy – Richland Operations Office

Accomplishments

- M-091-03 – Project Management Plan (PMP) –
 - CY 2013 PMP – Approved 01/29/15 (15-NWP-027)
 - CY 2014 PMP being prepared (on Schedule).
- M-026-01 – Land Disposal Restrictions (LDR) Report –
 - CY 2013 Report – Approved 12/11/14
 - CY 2014 Report being prepared (on Schedule).
- M-091-44S – Large-Package and Remote Handled Transuranic Mixed (TRUM) Waste – 09/30/18 milestone met. Formal declaration of completion 01/28/15 (15-AMRP-0069)



EM Environmental Management

safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov

Department of Energy – Richland Operations Office

Project Baseline Performance

Contract to Date through February 2015

Dollars in Thousands

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Central Waste Complex	59,882.8	59,544.1	57,647.2	-0.6%	3.2%
Waste Receiving and Packaging Facility (WRAP)	37,067.8	37,067.80	38,115.1	0.0%	-2.8%
T Plant	70,144.5	69,192.8	56,592.5	-1.4%	18.2%
MLLW Treatment	43,182.5	43,182.5	37,200.2	0.0%	13.9%
TRU Waste Retrieval	99,991.6	99,991.6	112,263.1	0.0%	-12.3%
TRU Waste Repackaging	51,077.3	53,025.5	50,386.2	3.8%	5.2%
TRU Waste Disposition	30,934.4	30,934.4	22,345.0	0.0%	27.8%
Project Management	105,678.4	105,576.6	94,485.2	-0.1%	10.5%



EM Environmental Management

safety ✦ performance ✦ cleanup ✦ closure

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5

Department of Energy – Richland Operations Office

Actions Planned for Next Six Months

- Repackage additional M-091-44 and M-091-46 TRU waste
- Continue surveillance and maintenance activities at CWC, WRAP, T Plant, and the LLBGs
- Continue supporting permitting and compliance activities
- Submit CY 2014 PMP
- Submit CY 2014 LDR Report



EM Environmental Management

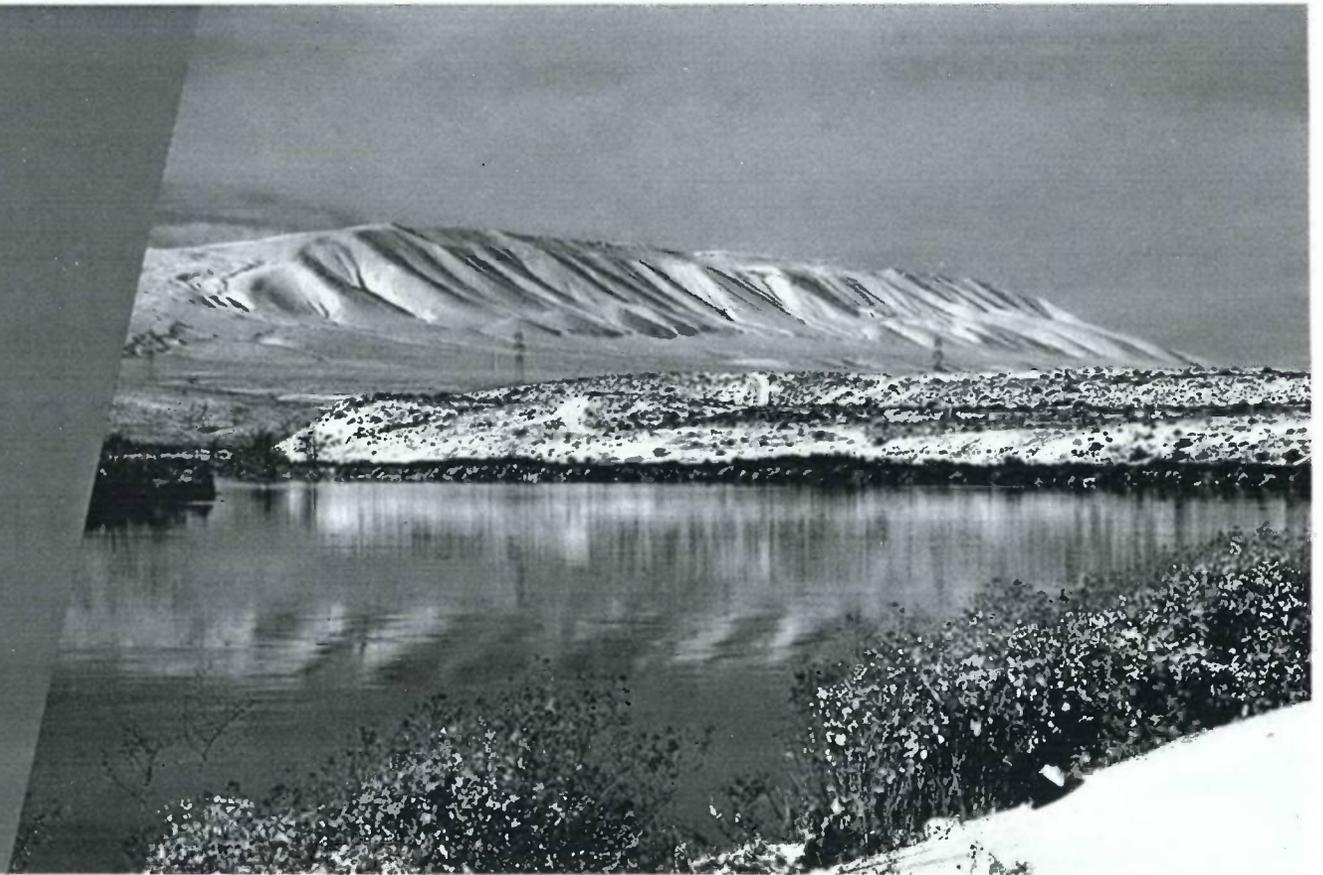
safety ✦ performance ✦ cleanup ✦ closure

www.em.doe.gov

6

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

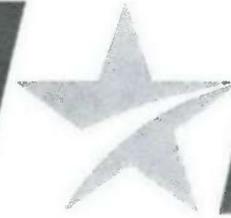
First Quarter FY 2015
March 19, 2015

CH2MHILL
Plateau Remediation Company



Accomplishments

1st Quarter FY 2015



Minimum Safe/Maintenance Activities

- Completed REDOX and PUREX annual stack testing
- Completed field work for REDOX Annual Surveillance
- Completed 200E and 200W Radiation Area Remedial Action (RARA) Tri-Annual Surveillances
- Completed PUREX Annual Surveillance
- Completed monthly preventive maintenance activities and radiological facility surveillances
- Completed WIDS site housekeeping (weed spraying and hot tumbleweed removal)
- Completed Annual Chemical Inventory

Accomplishments

1st Quarter FY 2015



Additional Project Work

- Continued asbestos abatement at steam line cut locations
- Completed PUREX N-Cell investigative survey work
- Completed Construction Yard Facilities Demolition – 20 facilities demolished

Steam line removal asbestos abatement



Construction Yard Facilities Demo



Accomplishments

1st Quarter FY 2015



Additional Project Work (cont.)

- Completed 291-S roof repairs

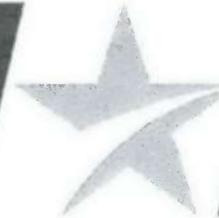


Before



After

Milestone Status



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

Project Baseline Performance

Contract to date (through December 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	106.2	106.1	94.3	-0.2	-0.1	11.7	11.0	184.5	172.3	12.2

Numbers are rounded to the nearest \$0.1M.

Planned Activities

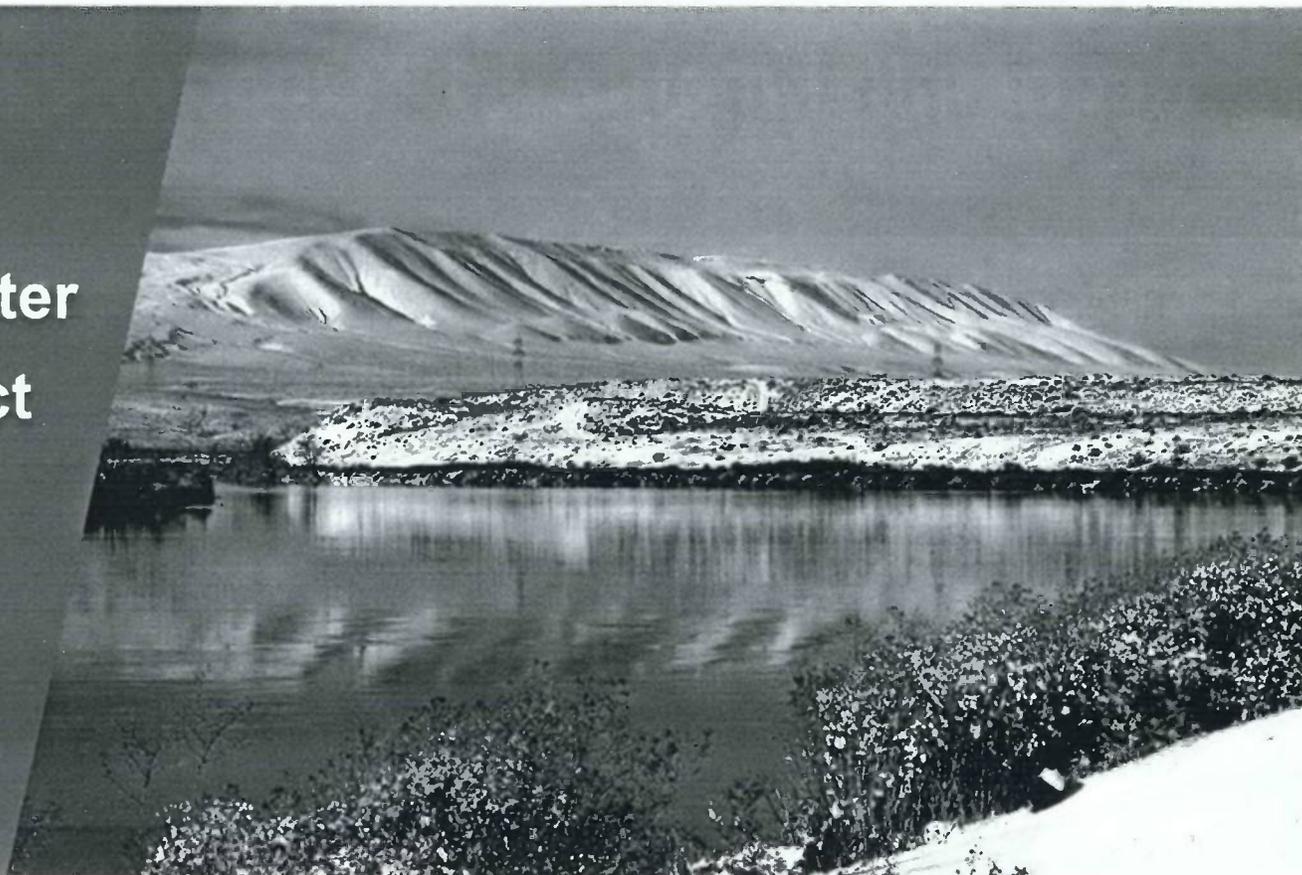
January – June 2015



- Complete REDOX roof deficiency repair
- Complete PUREX exhaust fan vortex damper repair
- Continue surveillance of inactive WIDS sites
- Complete 224-T, REDOX, U Plant, and PUREX Post Surveillance Discrepancy Reviews
- Complete repair of remaining priority steam line sections
- Perform 2015 annual steam line surveillance
- Perform B-Plant Pre-Filter change-out
- Perform B-Plant Annual Surveillance

Soil and Groundwater Remediation Project Milestone Review

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



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

First Quarter FY2015
March 19, 2015

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Accomplishments – 1st Quarter 2015



- River Corridor
 - Preparing Draft 100-F/IU Remedial Design/Remedial Action Work Plan (RD/RAWP)
 - Submitted Rev 0 300 Area RDR/RAWP
 - Continued 100-N RI/FS comment disposition
- Central Plateau
 - Initiated construction of uranium treatment system at the 200 West P&T
 - Submitted Draft A Groundwater SAP for the 200-PO-1 Groundwater OU
 - Preparing three Decisional Draft RI/FS Work Plans
 - 200-SW-2
 - 200-WA-1
 - 200-DV-1
 - Obtained approval of 200-DV-1 Perched Water Action Memorandum



Bioventing system near the 100-N Reactor



Milestone Summary Through March 2017



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

*Groundwater milestones are not causing M-016-00 to be at risk.

Milestone Summary Through March 2017



TPA Number	Milestone or Target Date	Description	Status
M-024-000	TBD	Complete Well Installations with RCRA/CERCLA Requirements	In Program Planning
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-024-58I	6/1/16	Initiate Discussions of Well Commitments	On Schedule
M-024-67-T01	8/1/16	Conclude Discussions of Well Commitments	On Schedule
M-024-67	12/31/16	Complete Construction of All Wells Listed for CY 2016 and Before as Identified in M-24-13-01	On Schedule
M-085-00	TBD	Complete Response Actions for Specified Canyon Fac. & Waste Sites	In Program Planning
M-085-02	9/30/15	Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for 200-CB-1, 200-CP-2, and 200-CR-1 OUs and a schedule for submittal of the RAWPs for 224B and 224T Plutonium Concentration Facilities	On Schedule

Project Baseline Performance

Contract to date through December 2015



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	711.9	710.8	686.0	(1.1)	-0.2%	24.8	3.5	1,193.0	1,124.0	69.0

Numbers are rounded to the nearest \$0.1M.



*IX Uranium
treatment skid
front (left) and
back (right)*

Planned Activities – 6 month look ahead

(January-June 2015)



Central Plateau

- 200 West P&T
 - Complete drilling of last 2 new extraction wells
 - Issue draft CY2014 200-West P&T report
- 200-BP-5 and 200-PO-1
 - Submit 200-BP-5 SAP, Draft A
 - Submit RI Reports, Draft A
 - Initiate construction of 200-BP-5 Pipeline to 2WP&T
- 200-UP-1
 - Complete uranium extraction/treatment system installation
 - Initiate construction I-129 hydraulic containment system and initiate injection well drilling
 - Complete Performance Monitoring Plan, Draft A
- 200-IS-1
 - Develop pipeline risk evaluation approach of the RI/FS work plan
- 200-CW-5 & 200-PW-1/3/6
 - Prepare RDR/RA work plan
- 200-WA-1/200-BC-1
 - Submit the RI/FS Work Plan
- 200-SW-2
 - Submit the RI/FS Work Plan

Central Plateau (cont.)

- 200-DV-1
 - Submit the RI/FS Work Plan for regulatory Review
 - Initiate BY Cribs characterization

River Corridor

- 100 N Area
 - Issue 2015 bioventing annual report
- 100 F/IU Area
 - Submit the RD/RA Work Plan for regulatory review
- 100 K Area
 - Submit Draft Interim RD/RAWP/O&M Plan/Monitoring Plan
- 100 D/H Area
 - Issue Rev. 0 of the PP for Public Review
 - Issue Rev 0 Interim RD/RAWP/O&M Plan/Monitoring Plan
 - Initiate well drilling
- 300 Area
 - Approve RDR/RA Work Plan
 - Issue Monitoring Plan and Remedy Implementation SAP
 - Initiate field work for sequestration