

River Corridor/Central Plateau
Tri-Party Agreement Milestone Review
Meeting Minutes
January 20, 2011

Approval: [Signature]
J. Hedges
Ecology IAMIT Representative

Date: 2/17/11

Approval: [Signature]
R.A. Holten
DOE IAMIT Representative

Date: 2/19/11

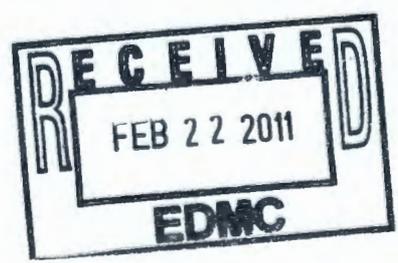
Approval: [Signature]
D.A. Faulk Rod Lobos For
EPA IAMIT Representative

Date: 2/17/11

Minutes Prepared by: [Signature]
T.W. Noland
Mission Support Alliance, LLC

Date: 2/17/11

- Almquist, R.A.* RL
- Balone, S.N. RL
- Bignell, D.T. WCH
- Black, D.G.* CHPRC
- Bland, N.M.* RL
- Bloom, R.W.* CHPRC
- Bond, R.* Ecology
- Bohnee, G. NPT
- Buelow, L.C. EPA
- Brown, M.J.* Ecology
- Bryson, D.C. RL
- Call, P.K. RL
- Cameron, C.E. EPA
- Chang, A.* Ecology
- Charboneau, B.L.* RL
- Cimon, S.* ODE
- Collins, M.S.* RL
- Einan, D.R. EPA
- Faulk, D.A.* EPA
- Franco, J.R. RL
- French, M.S.* RL
- Gadbois, L.E. EPA
- Goswami, D.* Ecology
- Harris, S. CTUIR
- Hedges, J.* Ecology
- Henry, D. OOE
- Holten, R.A.* RL



- Jim, R. Yakama
- Johnson, W.F.* WCH
- Kaldor, R.A.* MSA
- Knox, K.E.* KCR
- Lobos, R.A.* EPA
- Louie, C.S.* RL
- Lynch, J.J.* ORP
- Menard, N.M.* Ecology
- Niles, K. OOE
- Noland, T.W.* MSA
- Ortiz, S.M.* RL
- Piippo, R.E.* MSA
- Price, J.B.* Ecology
- Russell, R.W. ORP
- Singleton, D.G.* Ecology
- Skinnarland, E.R.* Ecology
- Teimouri, A.E.* HQ
- Teynor, T.K.* RL
- Vance, J.G.* MSA
- Vanni, J. Yakama
- Voice, J.D.* RL
- Watson, D.J.* CHPRC
- Whalen, C.* Ecology
- Williams, J.D.* CHPRC
- Yasek, D.M.* WCH
- Administrative Record
- *Attendees

**River Corridor/Central Plateau
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River Corridor Closure Project - Milestones M-16/M-89/M-92/M-93/M-94

DOE-RL distributed the quarterly summary for December 2010. A new schedule for the quarterly TPA milestone review meetings is being implemented starting January 2011, and the River Corridor and Central Plateau meetings are being combined. The River Corridor held its quarterly meeting in December 2010, and is starting the new schedule in January 2011, so today is a one-month reporting period. The milestone status, significant accomplishments for the last three months, significant actions planned for the next three months, performance summary, and issues were provided.

Milestone Status

M-16 - DOE-RL clarified the reason that some of the M-16 milestones are listed as at risk. The remediation will be completed, but approval of the closure documents, completion of sampling, and revegetation and backfill are in question. DOE-RL is working with Ecology in an effort to meet those at-risk milestones.

M-89-00 - 324 Bldg Non-Permitted Mixed Waste Units Closure - This milestone will be missed due to the high dose contamination underneath the 324 B-Cell. WCH will be conducting more characterization and planning for the remediation path forward. It is anticipated that a change request will be submitted towards the end of FY11. Ecology asked if a recovery plan will be included. DOE-RL responded that a recovery plan would probably be included in the change request.

Significant Accomplishments - For Last 3 Months

M-16 - Remedial Action/Risk Assessment - A lot of concrete and pipelines have been removed from 100-C-7. The concrete will be sent to U Plant to use as part of the cap material. A large amount of metals has been recycled, and WCH estimated it saved about \$500,000 by not having to transport it to ERDF for disposal. EPA noted that there is a widespread perception that excavation on the Hanford Site doesn't go any deeper than 15 feet, and suggested using 100-C-7 as an example to dispel that perception. Excavation at 100-C-7 is planned to go 50 to 85 feet.

EPA noted that since there is no 400 Area operable unit, the 400 Area orphan sites will be attached to either 300-FF-2 or 100-IU-2/6, depending on which segment the orphan site is located. DOE-RL stated that some unexpected chrome contamination was found in the soil at 100-F-57, and more testing will be conducted to determine if it's localized or whether deeper excavation will be required.

Significant Actions Planned - For Next 3 Months

M-16 - 100-C-7 remediation is anticipated to go down 50 to 85 feet due to the deep chromium contamination. Mining experts have been brought in to assist with planning the excavation to allow easier access.

ERDF - EPA asked if work had stopped on the performance assessment (PA), and expressed its position that the PA should be completed. DOE-RL indicated that the PA had not been halted, and that DOE-RL intends to discuss with EPA coordination between the PA and the Environmental Impact Study (EIS).

Performance Summary

The project performance from a project management standpoint continues with a positive schedule and cost variance. The 100-K Area, 300 Area and 400 Area scope have been removed from the WCH contract. ARRA performance also continues with a positive schedule and cost variance.

Issues - DOE-RL stated that agreement has been reached with Ecology on the draft TPA change package to delay remediation of 100-D-31:11/12 pipeline segments. The change package has been submitted to Ecology. DOE-RL stated that it is in the process of approving the contract modification to add 183-D to the WCH contract.

EPA raised an issue regarding meeting the schedule for completion of the risk assessment documentation to support the Remedial Investigation Feasibility Study (RI/FS) submittals. DOE-RL noted EPA's concern, and will continue discussions with EPA on the status of the RI/FS submittals.

Hanford 100-K Remediation for Applicable M-16 and M-93 Milestones

A summary of the TPA milestone status, 100-K project risk status, and PBS RL-12 and PBS RL-41 project performance were provided. DOE-RL noted that a quarterly meeting was held in December 2010, so the status is an update since that time.

M-16-140, Submit Revised RD/RA Work Plans for 100K Area RODs as Primary Document(s) per HFFACO 11.6 with New Proposed Milestones Including the Following: (Due March 31, 2011)

DOE-RL stated that it is in dispute with EPA regarding the two parts of this milestone that are at risk, which is to complete treatment and packaging of the sludge material. DOE-RL and EPA have initiated discussions at the Inter-Agency Management Integration Team (IAMIT) level to resolve the dispute.

M-016-053 and M-016-143 Facilities Status

DOE-RL stated that the M-016-053 and M-016-143 facilities are on schedule. The Phase 1 183.2KE sedimentation basin (field work in progress) has not been completed yet because the clean concrete debris will be hauled to U Canyon to be used as cap material, and clean fill dirt from ERDF will be used at the sedimentation basin. The contract has been let and work is planned to start in a week.

EPA asked if the expectation is to complete the Phase 3 facilities by 2015. DOE-RL responded that the goal is to complete by 2015, but it will depend on funding profiles. However, a number of facilities under Phase 3 are planned to be completed this fiscal year. The current view is that by 2015, the K West reactor will be in interim safe storage (ISS), and the sedimentation basin will be de-watered and the sludge moved to the Central Plateau.

There is a risk associated with the M-016-53 and M-016-143 waste sites, since all 49 of the confirmatory sampling (CSNA) sites failed and are required to go to remove, treat and dispose (RTD). There was more contamination than anticipated, and the contractor is taking sampling data as soil is removed to determine how much further they need to go. DOE-RL stated that EPA is being kept apprised of the situation.

M-093-022 Status

DOE-RL made the decision last month to discontinue the effort to remove the 105-KE reactor core. The decision was made because of other site priorities for site funding; however, there are sufficient funds to continue to place the reactor in ISS. The contractor will be providing a proposal to DOE-RL to finalize the ISS steps.

100K Project Risk Status

DOE-RL stated that there has been no change in project risk status. Progress continues at K West Basin. DOE-RL stated that vacuuming of the basin was completed, and the material was placed in an engineered container. All of the sampling of the sludge streams in the settler tubes was completed, and the samples are at PNNL. The results are expected from PNNL by June 2011. The K West Basin floor sludge sample results are expected by August 2011. The sample result information is critical for reassessing the safety basis, which will then drive the accident scenarios, seismic and ventilation requirements, and fire protection.

Progress is being made on sludge treatment. Preparations are under way for pretreatment of the knockout pot (KOP) material. A size and density sort will be done to remove material that doesn't need to go into the multi-canister overpack (MCO), which will save space and time. Following that, the found fuel will be received from WCH by the end of May 2011, and processing of one or two MCOs will start in June/July 2011. Once the found fuel processing is completed, the line will be slightly modified for washing the KOP fuel. After the KOP material is taken off the river and dumped, which is planned for June/July 2012, the material needed for

retrieval of the engineered container of settler tube sludge will be installed, and the fuel handling line will be disabled.

Project Performance

RL-12 - Project performance contract-to-date is behind schedule and over budget. DOE-RL stated that the main reason is due to the K East Basin removal, which took longer and the material was hotter than expected. DOE-RL stated that the schedule is recoverable despite the technical risks with testing and operations.

RL-41 - The project performance is slightly behind schedule and under budget.

Planned Activities

The spent fuel has been removed from the discharge chute at K East, and the last of the debris is being loaded out. It is significantly hotter than anticipated. Hot spots of 4-6 R have been detected and soil that's being mixed is about 1.6 R. DOE-RL is working with ERDF to avoid potential airborne contamination and the greater than 200 MR required for shipping. The substructures from the 115KE gas recirculation building and the 117KE exhaust air filter building are coming out, and coordination is being done in an effort to not impact the 105-KE ISS activities. The east and west wings will be down by the end of this month. Ecology noted its long-standing objection to DOE imposing the Department of Transportation shipping standards regarding the 200 MR limit.

Life Cycle Report - M-36

A status was provided for the life cycle report, which is a new milestone under the Consent Decree that was recently signed. The report is due July 2011, and it is on schedule to be completed April 2011 for use with the 2013 budget cycle. The first project manager meeting (PMM) is scheduled for January 31, 2011 with EPA and Ecology.

American Recovery and Reinvestment Act (ARRA)

DOE-RL provided an overview on ARRA . There are 26 projects (KPPs) under ARRA funding, and seven of them have been completed. There are three projects that are of concern: PFP closure; construction of the 200 West ZP-1 large pump and treat facility; and transuranic waste (TRU) retrieval. The commitment for the pump and treat facility is to have the major components on site by the end of this fiscal year. DOE-RL stated that a lot of equipment is being delivered. DOE-RL is attempting to push the schedule to have the construction completed by the end of this fiscal year, and noted that it is a very complex facility. The cold weather has had some impact on TRU retrieval this winter, and overtime is going to be applied to the project.

PFP Closure Project - TPA Milestone M-083

M-083 Status for Interim Milestones

DOE-RL reported that milestone M-083-24 is on schedule to submit the surveillance and maintenance (S&M) plan to Ecology by June 30, 2011. The remaining two milestones are on schedule for 2013 and 2015. EPA referred to milestone M-083-42 for transition and dismantlement of the 241-Z waste treatment facility, which has been completed, and asked if the intent is to leave the tanks in place and fill them with sand. CHPRC responded that the tanks have been closed in place, meeting the PFP end point criteria. If the tanks are removed, it would be a decision made as part of the 200 West RI/FS. Currently the tanks are still considered a waste site and listed in the Waste Identification Data System (WIDS) as a waste site.

Accomplishments

Ecology inquired about the setup for the size-reduction facility inside PFP and whether the difference has been identified between gloveboxes that are sent to Permafix Northwest or gloveboxes that will be size-reduced in-house. CHPRC indicated that the primary identifying factor is whether or not the gloveboxes are too hot to ship. DOE-RL added that there are some gloveboxes that cannot be moved around within the facility and are being size-reduced in-situ. Another situation that is being monitored and coordinated is the total amount of material being sent to Permafix Northwest from other projects in an effort to maintain the shipping schedule, particularly with ARRA key performance work.

Schedule and Cost Performance

The cost and schedule performance for both base and ARRA is ahead of schedule and below cost.

Non-Regulatory Issues

Ecology inquired about the potential impact with the upcoming reduction in work force, especially with regard to the large work force that was brought in under ARRA. DOE-RL responded that it is anticipated there will be an impact, and it is watching the schedule closely.

TPA Milestone M-26-01 - Land Disposal Restrictions Report

Actions Planned for the Next Six Months

Regarding the site-specific LDR variance request that DOE-RL plans to submit for the 42 containers of Argonne National Lab (ANL) waste, Ecology asked that the draft submittal contain more detail than just stating a request for a variance. Ecology stated that there may be opportunities to consider technologies for treating the waste. Oregon-DOE asked about the

number of inactive miscellaneous underground storage tanks (IMUSTS). DOE-RL will provide the list of tanks.

TPA Quarterly Milestone Review M-91 Series

Cost and Schedule Variance

The performance measurement reported was through the last quarter of 2010. DOE-RL stated that the negative cost variance is due to retrieval, and there is concern about meeting a September 2011 milestone to retrieve 2,000 cubic meters of TRU waste. Ecology asked if there is any risk of not meeting the milestone. DOE-RL stated that currently the TRU waste retrieval milestone is on schedule. Ecology asked if the beryllium issue has been resolved. DOE-RL responded that most of the beryllium issue has been addressed for T Plant and WRAP, and it is not yet known if there will be an impact to retrieval.

Actions Planned for the Next Six Months

M-091-46 - DOE-RL stated that a letter was received from EPA approving the Central Characterization Project (CCP), but final approval from Carlsbad is pending meeting a condition.
M-091-42 - Oregon-DOE asked how much of the 42 cubic meters of no-path forward waste is the sodium debris waste. DOE-RL stated that 25 of the 42 cubic meters is sodium waste. Ecology asked if the numbers for the no-path forward waste have been listed in M-91. DOE-RL responded that no no-path forward waste has been mentioned in the past, but the numbers were not called out. The no-path forward waste will be included in the M-091-03 Project Management Plan (PMP).

Soil and Groundwater Remediation Project Milestone Review - M-015-00, M-016-00, M-024-00, M-037-00, M-085-00

DOE-RL provided the milestone status, accomplishments, project baseline performance for base and ARRA, planned activities, and other items for discussion. DOE-RL stated that it will provide a summary of the milestones that were changed during the quarter for next quarter's presentation.

Milestone Status

DOE-RL noted that milestone M-015-82A was completed to submit the treatability test plan as an amendment to the 200-BP-5 work plan. EPA asked if the gap was closed with the sampling analysis plan (SAP). Ecology stated that the issues have been addressed.

Ecology noted that the information received in advance of the 200 Area PMM scheduled for this afternoon indicated that work had stopped on the risk assessments under milestones M-015-91A and M-015-92A because the funding is going away. There was a brief discussion regarding the continuing resolution and the possible shifting of some funding to the groundwater program.

DOE-RL stated that there is a funding shortage, but all of the activities for this year are expected to be compliant. DOE-RL clarified that the PRC did suspend some work activity, but no irreversible actions were taken. CHPRC noted that most of the suspended activities were associated with characterization. DOE-RL will confirm that 91A is not at risk and further discussion will follow during today's 200 Area PMM.

Significant Accomplishments - 1st Quarter FY2011

The K Area has increased its treatment capacity from 500 gallons per minute to 1,100 gallons per minute. The D Area pump and treat facility that is shared with H Area has increased its capacity from 150 gallons per minute to 600 gallons per minute. The H Area pump and treat facility that is under construction will have a capacity to treat 800 gallons per minute. The DX treatment facility has started up, and it is utilizing a new resin that has a much higher efficiency rate.

Significant Accomplishments

200-UP-1

DOE-RL stated that the S-SX extraction system is not part of the 200 West but will be connected to 200 West. An extraction building and network in 200-UP-1 will send water over to the 200 West pump and treat for treatment. The initial proposal for the 200 West pump and treat was 800 gallons per minute, and will now have an initial capacity of 2,500 gallons per minute. A footprint incorporated into the design will allow expansion to 3,750 gallons per minute. EPA commented that the above-stated information was not clear when reading the proposal. EPA stated that after reviewing the Proposed Plan, the only problematic issue is iodine 129, and EPA will be asking DOE-RL to make a commitment to pursue technology development for I-129. DOE-RL asked if EPA was referring to 200 West and/or 200-PO-1 as well. EPA responded that currently it's a UP-1 issue, but it will likely be a PO-1 issue also. DOE-RL stated that it was aware of the issue and is looking for technologies.

100-HR-3 - DOE-RL stated that the new DX pump and treat system has been completed, and if all the wells are running to maximum capacity within HR-3, there would be a 950-gallon treatment capacity. The milestone due at the end of this calendar year is to have a 900-gallon treatment capacity, and it is possible to meet that without building another facility. The goal is to have a 1,400-gallon treatment capacity. Ecology noted that a meeting is scheduled next week to address the high concentration of chrome. DOE-RL explained that there is a small chrome plume in the H Area (100 ppb) and a large concentrated chrome plume in the D Area (50-60,000 ppb), and the Columbia River swerves around those areas. Since the plume area is comprised of about five miles, the plan is to split treatment of the two plumes. The H Area plume will be cleaned up, and the D Area plume will be treated and contained. Ecology is requesting monitoring through the whole operation to ensure the chrome is contained.

Waste Sites - DOE-RL reported that 28 waste sites have been completed so far under RL-40, exceeding the planned 24 waste sites.

RL-30 and RL-40 ARRA/Base Cost and Schedule Performance

RL-30 ARRA - DOE-RL stated that the 23 million dollar cost variance is mainly due to claims from the contractor for the 200 West pump and treat facility. Negotiations are ongoing to address the claims.

RL-30 Base - Ecology inquired about the delays in initiating the barrier expansion activities in NR-2. Ecology noted that there is regulatory approval to do the barrier expansion, but the current status is pending funding resolution. DOE-RL responded that funding for the expansion should be above the baseline. Ecology inquired about the status of regulatory decision/closure documents. DOE-RL indicated that all of the activities that need to be done to meet this year's commitments will be funded, and the work required this year to meet next year's commitments are also funded. EPA asked if funding will be available to implement the characterization program to collect additional data for the 200 West work plan. DOE-RL responded that it falls under FY12 activities and beyond, and the funding is an unknown. DOE-RL added that the characterization program is towards the bottom of the priority list, but a lot of effort has been invested in the program and every attempt will be made to fund it. The Tri-Parties noted and agreed that the statement on the bottom of page 17 of the handout regarding "discussions on the tentative agreement" is in error and that there is no tentative agreement for discussion.

RL-40 ARRA/Base - DOE-RL stated that contract-to-date the project baseline performance is running a positive cost and schedule performance.

Planned Activities Next 6 Months

200-UP-1 - EPA stated its goal is to be completed with public comment on the Draft A RI/FS report and Proposed Plan by May 2011 because EPA has a September 2011 commitment. EPA reiterated its request for technology development regarding I-129.

Other Items for Discussion

DOE-RL stated that Ecology had requested the other items for discussion, and page 24 of today's handout documents that the items are being brought up and discussed. DOE-RL noted that page 24 was added last night to the handout. Ecology requested that these types of items for discussion should be a consensus report with the regulators. DOE-RL responded that sometimes items are eliminated through a consensus report. Ecology indicated that the consensus report could include items with differing views from the Tri-Parties.

Ecology stated that DOE-RL needs to provide a consensus regarding its priority for regulator document review. A reference was made to the key documents list that is provided monthly in the Inter-Agency Management Integration Team (IAMIT) meetings, and that every document requiring regulator review needs to be on the list so the regulators can plan their resources. DOE-RL stated it will take Ecology's concerns forward and address them internally.



Thursday, January 20, 2011
Ecology Offices, Conference Room 3A/B
3100 Port of Benton Way
Richland, Washington

Agenda
River Corridor/Central Plateau Milestone Review Meeting
Chairman: Rich Holten

8:30 a.m.	M-16, 89, 93 and 94	River Corridor Closure
9:00 a.m.	M-16 and 93	100 K Remediation
9:30 a.m.	M-36	Life Cycle Report
9:40 a.m.		Break
9:50 a.m.	M-83	PFP Transition
10:00 a.m.	M-26	Land Disposal Restrictions Report
10:05 a.m.	M-91	Acquisition of Facilities to TSD TRU/TRUM and LLMW
10:20 a.m.	M-15, 16, 24, 37 and 85	Soil and Groundwater Remediation
11:30 a.m.	Adjourn Milestone Review	

Tri-Party Agreement River Corridor/Central Plateau Milestone Review
January 20, 2011

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<u>Shannon Ortiz</u>	<u>DOE-RL</u>
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<u>Ed Wos</u>	<u>EPA</u>
<u>Alex Terencio</u>	<u>DOE-EM-51</u>
<u>Rod Almqvist</u>	<u>DOE/RL</u>
<u>Michael Collins</u>	<u>DOE-RL</u>
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Tri-Party Agreement River Corridor/Central Plateau Milestone Review
January 20, 2011

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Leborah Singleton	Ecology
Ron Skinnarlat	Ecology
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Jane Hedgcs	Ecology
Albert Chang	Ecology
Naomi Bland	DOE-RL

TPA Quarterly Review

For Period: December 2010



Tri-Party Agreement

River Corridor Milestones:

M-16

M-89

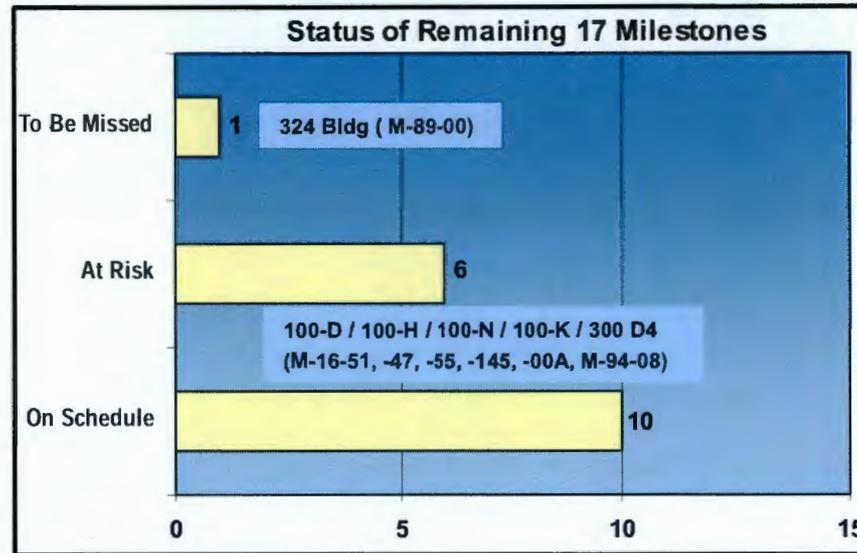
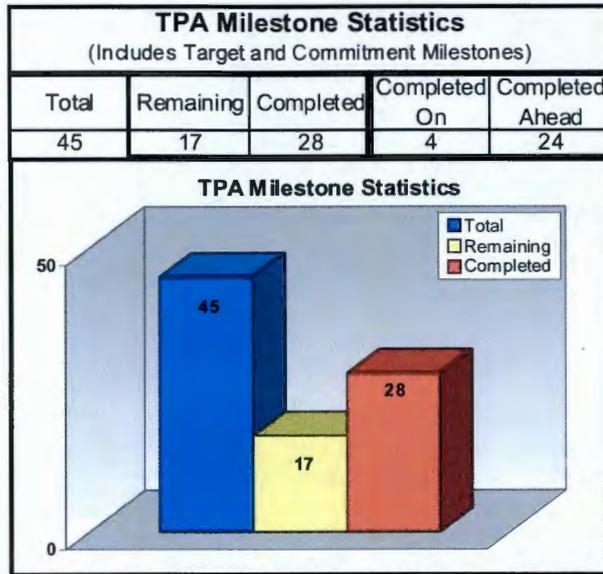
M-92

M-93

M-94

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

January 20, 2011



Quarterly Summary (December 2010)

- **Completed TPA milestones:**
 - No milestones were completed during this reporting period.
- **Approved one change request:**
 - M-94-10-01 approved on 12/15/10 added 340B facility to list of high priority facilities identified in M-94-08 (due 12/31/11) and M-94-09 (due 9/30/13).

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2012 and "at risk")				
M-16-47	12/31/11	Complete Interim RA for 100-D Area	At risk	Remediation of waste sites will be complete, but approval of closure documents and backfill/revegetation may not complete in time to meet the milestone.
M-16-51	12/31/11	Complete Interim RA for 100-H Area	At risk	Remediation of waste sites will be complete, but approval of closure documents and backfill/revegetation may not complete in time to meet the milestone.
M-16-56	02/28/12	Complete Interim RA for 100-IU-2 / 100-IU-6 Waste Sites Listed in 1999 100 Area Remaining Sites ROD (32 sites) as Described in RDR/RAWP	On schedule	
M-16-74	09/30/12	Complete Interim Remediation (to include excavation, loadout, closeout sampling, backfill) for all 300 Area "Inside the Fence" Waste Sites North of Apple Street, Except that the 300-268 and 300-123 Waste Sites Remediation Need Only Be Completed Through Excavation and Loadout	On schedule	Waste sites 300-4, 300-15, 300 RRLWS, and RLWS are impacted by 300 Area building retentions and are addressed in M-16-00B. Revegetation of M-16-74 waste sites will be completed under M-16-139.
M-16-55	12/31/12	Complete Interim RA for 100-N Area	At risk	Waste site cleanup and facility demolition are being coordinated to optimize 100-N remediation. An integrated and aggressive schedule is being implemented to meet TPA milestone requirements.
M-16-145	12/31/12	Complete Interim RA for 100-K Area Facilities and Waste Sites not Included as Phase 1,2, or 3 Work	At risk	Sites in this milestone are those listed in IROD prior to August 2009. Three sites (600-29, 100-K-78, 128-K-2) included in this milestone are currently not in WCH contract for remediation, and require an approved REA prior to performing design and another REA for remediation.
M-16-00A	12/31/12	Complete All Interim RA for 100 Area Units, with Exception of 100-K Area, by Specified Due Date as Approved in a RDR/RAWP	At risk	At risk due to M-16-47, -51, 55, -145.

TPA MS No.	Compliance Date	Title	Status	Comments
M-89 Milestone - 324 Bldg Non-Permitted MW Units Closure				
M-89-00	09/30/12	Complete Closure of Non-Permitted Mixed Waste Units in 324 Bldg REC B-Cell, REC D-Cell, and High Level Vault	To Be Missed	Soil contamination encountered under 324 B-Cell. This is a differing condition and will result in cost and schedule impacts. Change package will be submitted when sufficient information is available.
M-92 Milestone - 300 Area Special Case Waste				
M-92-16	09/30/15	Complete Removal and Transfer, and Initiate Storage of Phase III 300 Area Special Case Waste and Materials	On schedule	Milestone transferred to WCH in September 2010 with transfer of 340 Waste Neutralization Facility.
M-93 Milestone - Reactors Final Disposition				
M-93-20	09/30/12	Complete 105N Reactor ISS	On schedule	ISS in progress.
M-94 Milestone - 300 Area Surplus Facilities Disposition				
M-94-08	12/30/11	Complete Removal and/or RA for 11 of Following Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 327, 333, 340, 3706, and 3720	At risk	At risk due to work impacts from beryllium program changes and unexpected contamination encountered under 324.

Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Started 100-C-7 project startup review process.
- Completed 132-H-3 excavation; continued loadout.
- Began site preparation for 118-K-1 Trench I silos.
- Continued unexploded ordnance sweeps at 600-149:1.
- Continued 6-month bioremediation operational testing at 100-N Area.
- Issued 400 Area Orphan Sites Evaluation Report.
- Received approval of 6 waste site closure documents during this reporting period.
- American Recovery and Reinvestment Act (ARRA) – Continued 100-F Area remediation (19 waste sites).
- ARRA – Completed all Segment 1 and Segment 2 field work.
- ARRA – Completed final confirmatory sampling field activities for all sites.
- ARRA – Issued 618-11 non-intrusive characterization (NIC) proposal to subcontractor.

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

- Continued hazardous waste removal and deactivation activities.
- Completed shipping remaining B-Cell waste to Central Waste Complex.
- Completed initial characterization under the failed B-Cell sump liner and established waste site 300-296 based on radioactive contaminated soil found.

M-93 – Reactors Final Disposition:

- Continued installation of 109N safe storage enclosure (SSE) roof panels.
- Began demolition of 105N Fuel Storage Basin transfer bay; continued SSE design.

M-94 – 300 Area Surplus Facilities Disposition:

- Continued 308 glovebox shipments to Perma-Fix..
- Initiated demolition preparations for removal of the 309 reactor dome.



Completed 132-H-3 Excavation



Roof Installation Nearing Completion on 109N ISS

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

ERDF:

- For period of December 2010, disposed nearly 105,000 tons of waste in ERDF.
- ARRA – Completed placement of operations layer in Super Cells 9/10.
- ARRA – Performed Super Cell 9 acceptance testing procedure.
- ARRA – Started installation of septic system.
- ARRA – Started structural steel for equipment maintenance facility.



Installing Container Maintenance Facility Roof

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment:

- Begin 100-C-7 remediation.
- Initiate 118-K-1 Trench I silo remediation.
- Begin closure process for 314 and related sites (300 Area).
- ARRA – Initiate Draft A review of 100-D, -K, -IU-2/6 closure documents.
- ARRA – Commence mobilization for 618-10 remediation.
- Complete Ecology comment resolution on Draft B 100-N Work Plan addendum; issue Rev. 0.

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

- Complete characterization under B-Cell and start mitigation planning for the new waste site, 300-296.
- Continue hazardous waste and asbestos removal.

M-93 – Reactors Final Disposition:

- Begin 105N Fuel Storage Basin demolition.
- Complete 109N SSE roofing and siding installation.

M-94 – 300 Area Surplus Facilities Disposition:

- Continue 327 below-grade demolition.
- Complete 308 glovebox shipments to Perma-Fix.
- Complete below-grade demolition of 338, 3718P, 335, and 336.

ERDF:

- ARRA – Perform Super Cell 10 acceptance testing.
- ARRA – Open Super Cell 9 for operation.
- ARRA – Complete installation of leachate tanks #3/4; demolish #2.
- ARRA – Complete batch plant installation.
- ARRA – Start structural steel erection for operations center..

PERFORMANCE SUMMARY (includes ARRA)
Contract Inception (8/25/05) through December 2010
 (\$K)

						<i>Previous Quarter Comparison</i>			
	IPB		CUMULATIVE			SCHEDULE VAR (\$)		COST VAR (\$)	
	BAC	EAC	BCWS	BCWP	ACWP	Nov	Dec	Nov	Dec
D4	667,675	590,612	352,803	390,038	282,307	41,026	37,235	108,936	107,731
Reactor ISS	120,767	131,958	84,200	62,208	59,360	-21,230	-21,992	3,452	2,848
Field Remediation	639,301	646,369	372,009	376,536	326,853	4,362	4,527	46,452	49,683
Waste Operations	427,994	381,667	242,267	310,884	261,102	68,722	68,617	46,756	49,782
ESFC	64,839	65,339	46,901	47,676	41,492	54	775	6,316	6,184
Mission/General Support	328,164	417,823	212,525	212,525	208,310	0	0	3,752	4,215
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency	111,185	111,185							
TARGET COST TOTAL	2,363,904	2,348,700	1,314,684	1,403,846	1,183,171	92,935	89,162	215,897	220,674

Schedule Variance (PMB): \$89,162K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Stop-work at KE/KW Reactor ISS (RL direction).
- Accelerated remediation work at 100-B/C, CLIN 4, and 100-H Areas; partially offset by negative variances associated with 100-K/300 Area descope, as well as delays of miscellaneous restoration, 118-K-1, and 100-IU-2/6 and 100-D closeouts.
- ERDF Super Cells 9/10 construction ahead of schedule.
- ERDF transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

Cost Variance (PMB): \$220,674K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- 100-D/F/H/K and 100-IU-2/6 remediation underruns. Partially offset by significant project support costs at all active dig sites, particularly in the 300 Area.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, and construction. These efficiencies and increased waste volumes have more than offset cost overruns in direct project support.

ARRA - Performance Summary
April 2009 through December 2010
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Nov	Dec	Nov	Dec
RL0041.R1.2 - Cell 9 / ERDF	51,361	44,218	43,766	47,941	40,997	4,805	4,175	6,891	6,944
RL0041.R1.3 - Acc Rem / ERDF	55,571	39,220	34,320	36,296	23,322	-486	1,976	8,264	12,974
RL0041.R1.4 - Cell 10	37,672	27,376	17,655	34,836	24,150	17,977	17,182	10,248	10,687
RL0041.R2 - 618-10	65,977	63,752	30,153	32,710	32,868	1,806	2,558	-1,331	-157
Contingency	8,990	8,990							
TARGET COST TOTAL	219,571	183,557	125,894	151,784	121,337	24,101	25,890	24,072	30,448

Schedule Variance (PMB): \$25,890K

- ERDF Cells 9/10 construction running ahead of schedule.
- 100-F remediation started earlier than planned
- Infrastructure design completion ahead of schedule, as well as non-intrusive characterization at 618-10. Intrusive characterization work was replanned to better reflect the start due to final hazard categorization and beryllium delays.
- ERDF waste transportation and disposal less than planned; design and construction of new maintenance facilities, operations center, and container transfer area Phase 5 upgrade behind schedule.

Cost Variance (PMB): \$30,448K

- ERDF Cells 9/10 construction is realizing efficiencies.
- ERDF equipment and facility upgrade costs less than budgeted.
- Fewer comments received and streamlining the confirmatory sampling process (e.g., use of fewer sub-sites than originally planned) have resulted in significantly lower analytical costs and positive cost variances in several accounts.
- 618-10 design costs were higher than planned due to data quality objective and sampling and analysis plan changes being more extensive than original plan, as well as the material-at-risk calculations requiring more support. Extended duration of non-intrusive characterization has resulted in more hotel costs than planned. Safety documentation approval delays have resulted in change notices from subcontractor for schedule extensions. These negatives are offset by well installation final costs less than planned and favorable rates on infrastructure contract.

RCC Issues

- Determining impact of radiological contamination encountered under the 324 facility. This will affect schedule for demolition of the 324 Complex.
- Obtain agreement on TPA change package to delay remediation of 100-D-31:11/12 pipeline segments adjacent to 183-D Facility.

Hanford 100-K Remediation
Tri-Party Agreement Milestone Review
for Applicable
M-16 and M-93
Milestones

U.S. Department of Energy
Richland Operations Office (RL)
River Corridor Project

January 20, 2011



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TPA Milestone Status

Number	Milestone Title	Due Date	Status / Comments
M-16-00C	COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100K AREA.	TBD	See M-16-140
M-16-53	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100K AREA WITHIN THE PERIMETER BOUNDARY AND TO THE RIVER FOR PHASE 1 ACTIONS.	12/31/2012	On Schedule
M-16-140	<p>SUBMIT REVISED RD/RA WORK PLANS FOR 100K AREA RODS AS PRIMARY DOCUMENT(S) PER HFFACO 11.6 WITH NEW PROPOSED MILESTONES INCLUDING THE FOLLOWING:</p> <ul style="list-style-type: none"> • COMPLETE REMOVAL OF THE K WEST BASIN. • COMPLETE REMOVAL OF ALL SLUDGE (INCLUDES CONTAINER, SETTLER TANK SLUDGE) FROM K WEST BASIN EXCEPT KNOCKOUT POT CONTENTS. • COMPLETE REMOVAL OF KNOCKOUT POT CONTENTS. • COMPLETE TREATMENT AND PACKAGING OF FIRST CONTAINER OF TRU SLUDGE WASTE CERTIFIABLE FOR DISPOSAL AT WIPP. • COMPLETE TREATMENT AND PACKAGING OF SLUDGE FOR DISPOSAL AT WIPP. • BEGIN 105KW REACTOR INTERIM SAFE STORAGE. • COMPLETE 105KW REACTOR INTERIM SAFE STORAGE. • INITIATE SOIL REMEDIATION UNDER K WEST BASIN. • COMPLETE ALL INTERIM RESPONSE ACTIONS AT THE 100K AREA. 	03/31/2011	<p>On Schedule</p> <p>On Schedule</p> <p>On Schedule</p> <p>At risk</p> <p>At risk</p> <p>Existing documentation is sufficient</p> <p>Existing documentation is sufficient</p> <p>Existing documentation is sufficient</p> <p>On Schedule</p>
M-16-143	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100K AREA WITHIN THE PERIMETER BOUNDARY AND TO THE RIVER FOR PHASE 2 ACTIONS.	12/31/2015	On Schedule
M-93-22	COMPLETE 105KE REACTOR INTERIM SAFE STORAGE IN ACCORDANCE WITH THE REMEDIAL DESIGN/REMEDIAL ACTION WORK PLAN.	07/31/2014	On Schedule



M-016-140 Status

Milestone M-016-140: Submit Revised RD/RA Work Plans for 100K Area RODS as Primary Document(s) per HFFACO 11.6 with New Proposed Milestones Including for the Following (Due: March 31, 2011):

Milestone Item (from bulleted list of activities in the M-016-140 Milestone)	Existing RD/RA Work Plan	Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule) Each color indicates a separate document.	Applicable Decision Document
Complete Removal of the K West Basin	1a) Use KE Document as basis – DOE/RL-2007-41, <i>Remedial Design Report and Remedial Action Work Plan for K Basins Interim Remedial Action 105-K East Basin Deactivation</i> 1b) Use KE Document as basis – DOE/RL-2007-48, <i>Remedial Design Report and Remedial Action Work Plan for the 100 Area Remaining Sites Interim Remedial Action 105-K East Basin Demolition</i>	1a) Develop new RD/RAWP for the KW Basin Deactivation. DOE/RL-2010-052, Draft A was submitted to EPA on January 7, 2011. 1b) Develop new RD/RAWP for KW Basin Removal and Demolition. DOE/RL-2010-053 in preparation.	1a) 1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment 1b) 1999 Interim Action ROD for 100 Areas Remaining Sites, ESD, Feb. 2004 & Aug. 2009.
Complete Removal of All Sludge (Includes Container, Settler Tank Sludge) From K West Basin Except Knock Out Pot Contents	None	3) Develop new RD/RAWP for KW Basin Sludge removal, including KOP contents. DOE/RL-2010-063, Draft A submitted to EPA on December 28, 2010.	1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment
Complete Removal of Knock Out Pot Contents	The current <i>RDR/RAWP for K Basins Interim Remedial Action</i> , DOE/RL-99-89 R1, describes the remedial design for SNF removal and since the KOP contents will be removed as SNF, this will be the basis upon which changes will be managed.		



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M-016-140 Status - continued

Milestone Item (from bulleted list of activities in the M-016-140 Milestone)	Existing RD/RA Work Plan	Recommended RD/RA Work Plan (numbers correspond to section on integrated schedule) Each color indicates a separate document.	Applicable Decision Document
Complete Treatment and Packaging of First Container of TRU Sludge Waste Certifiable for Disposal at WIPP	DOE/RL-2006-06 Rev 0, <i>RD/RAWP for K Basins Interim Remedial Action, Sludge Treatment and Interim Storage</i> , is obsolete as it is based on an approach that was not implemented.	4) Develop new RD/RAWP for treatment and packaging of sludge for disposal at a national repository. Technical information is not at a conceptual design level.	1999 Interim Action ROD for 100 KR-2 Interim Remedial Action and 2005 ROD Amendment
Complete Treatment and Packaging of Sludge for Disposal at WIPP			
Begin 105-KW Reactor Interim Safe Storage	DOE/RL-2005-26 Rev 1, <i>RAWP for KE/KW Reactor Facilities and Ancillary Facilities</i>	5) DOE/RL-2005-26 Rev 1 is sufficient for current ISS work at 105-KW.	EE/CA 2005-86 and 100-K Action Memo *New EE/CA and Action Memo will be required if Core Removal decision is made for 105-KW
Complete 105-KW Reactor Interim Safe Storage			
Initiate Soil Remediation Under K West Basin	DOE/RL-96-17 Rev 6 <i>RDR/RAWP for the 100 Area</i>	6) DOE/RL-96-17 Rev 6 may not require any further updates. TPA-CN-320 defines completion dates for 100K Area (inside the fence) soil wastes sites.	1999 Interim Action ROD for 100 Areas Remaining Sites, ESD, Feb. 2004 & Aug. 2009.
Complete All Interim Response Actions at the 100K Area		7) New integrated Field Execution Schedule encompassing all interim response actions at 100K Area – this will be provided as an attachment to a letter.	Applicable to all Decision Documents identified above, as well as the 100 Area Interim Action Burial Grounds ROD and 100 Area Interim Action Liquid Waste Sites ROD.



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M-016-053 and M-016-143 Facilities Status

Phase 1 M-016-053: December 31, 2012	Phase 2 M-016-143: December 31, 2015	Phase 3 (to be determined)
<p>110KE Gas Storage Facility</p> <p>115KE Gas Recirculation Building</p> <p>116KE Reactor Exhaust Stack</p> <p>117KE Exhaust Air Filter Building</p> <p>118KE Horizontal Control Rod Storage Cave</p> <p>119KE Exhaust Air Sampling</p> <p>1706KE Radiation Control Counting Lab</p> <p>1706KEL Developmental Lab</p> <p>1706KER Water Studies Recirculation Bldg</p> <p>1713KE Warehouse</p> <p>1714KE Oil and Paint Storage Shed</p> <p>183.4KW Clearwell</p> <p>183.1KW Head House</p> <p>181KE River Pump House</p> <p>183.2KW Sedimentation Basin</p> <p>183.3KW Filter Basin</p> <p>MO048 Construction Lunch Trailer</p> <p>MO060 Conference Trailer</p> <p>MO872 Leased trailer</p> <p>MO873 Leased trailer</p> <p>MO969 HPT Change Trailer</p> <p>1605KE Guard Tower East</p>	<p>115KW Gas Recirculation Building</p> <p>116KW Reactor Exhaust Stack</p> <p>117KW Exhaust Air Filter Building</p> <p>118KW Horizontal Control Rod Storage Cave</p> <p>119KW Exhaust Air Sampling Building</p> <p>166AKE Oil Storage Facility</p> <p>166KE Oil Storage Vault</p> <p>166KW Oil Storage Vault</p> <p>1705KE Effluent Water Treatment Pilot Plant</p> <p>1713KER Shop Building</p> <p>1713KW Warehouse</p> <p>1714KW Oil and Paint Storage Shed</p> <p>1720K Administration Office Building</p> <p>1724KB Gas Bottle Storage Facility</p> <p>182K Emergency Water Reservoir Pump House</p> <p>183.5KW Lime Feeder Building</p> <p>183.6KW Lime Feeder Building</p> <p>MO101 Administration</p> <p>MO102 Administration</p> <p>MO214 Administration</p> <p>MO382 Office</p> <p>MO401 Administration</p> <p>MO402 Administration</p> <p>MO442 Classroom/Office</p> <p>MO506 CVDF Lunch Room</p> <p>MOS07 CVDF Conference Room</p> <p>MO907 Administration</p> <p>MO917 CVDF Administration</p> <p>MO928 Administration</p>	<p>105KW Water Tunnel</p> <p>142K CVDF</p> <p>1506K1 Fiber Optics Hut</p> <p>165KE Power Control Bldg</p> <p>142KA CVDF Generator Bldg</p> <p>165KW Power Control Bldg</p> <p>167K Cross-tie Tunnel Bldg</p> <p>1717K Maintenance Shop</p> <p>1724K Maintenance Shop</p> <p>1724KA Storage Shed</p> <p>181KW River Pump House</p> <p>183KE Chlorine Vault Shed</p> <p>183.2KE Sedimentation Basin</p> <p>183.3KE Filter Basin</p> <p>183.4KE Clearwell</p> <p>183.1KE Headhouse</p> <p>183.5KE Lime Feeder</p> <p>183.6KE Lime Feeder</p> <p>185K Potable Water Treatment Plant</p> <p>1908K Outfall Structure</p> <p>1908KE Outfall Structure</p> <p>190KE Main Pump House</p> <p>190KW Main Pump House</p> <p>MO054 Construction Lunch Room</p> <p>MOS00 Administration</p> <p>MO236 KW Ops/HPT Change</p> <p>MO237 KW Construction Forces</p> <p>MO323 CVD Change Trailer</p> <p>MO955 Conference Room</p> <p>1605KW Guard Tower West</p>

Field Work In Progress

Demolition Complete

Closure Actions and Documentation Complete



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M-016-53 and M-016-143 Waste Sites Status

Phase 1 M-016-053: December 31, 2012		Phase 2 M-016-143: December 31, 2015		Phase 3 (to be determined)	M-016-57 (Initiate soil remediation at K East Basin)
100-K-3	100-K-71	100-K-1	120-KE-2	100-K-35	UPR-100-K-1
100-K-6	100-K-77	100-K-4	120-KE-3	100-K-43	Legend:
100-K-18	100-K-79	100-K-5	120-KE-4	100-K-47	Excavation in progress
100-K-19	116-KE-1	100-K-13	120-KE-5	100-K-55	Failed CSNA pending Contract Action
100-K-34	116-KE-3	100-K-14	120-KE-6	100-K-56	Mixed Failed and RTD
100-K-36	116-KE-6A	100-K-25	120-KE-8	100-K-72	Closure Docs in Process
100-K-37	116-KE-6B	100-K-27	120-KE-9	100-K-73	Closure documentation complete
100-K-38	116-KE-6C	100-K-48	120-KW-6	100-K-74	Backfill complete
100-K-46	116-KE-6D	100-K-49	126-KE-2	100-K-75	Revegetation complete
100-K-53	118-KE-2	100-K-54	130-K-2	100-K-80	
100-K-55	120-KW-1	100-K-55	130-KE-2	100-K-81	
100-K-56	120-KW-2	100-K-56	130-KW-1	100-K-82	
100-K-57	120-KW-3	100-K-60	130-KW-2	116-K-3	
100-K-62	120-KW-4	100-K-61	132-KW-1	116-KE-2	
100-K-63	120-KW-5	100-K-66	1607-K1	116-KW-2	
100-K-64	120-KW-7	100-K-67	1607-K2	118-KW-1	
100-K-68	130-KE-1	100-K-83	1607-K4	128-K-2	
100-K-69	132-KE-1	116-KW-1	1607-K5		
100-K-70	1607-K3	118-KW-2	1607-K6		
	100-K-102	120-KE-1	100-K-109		



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M-093-022 Status

- A review of the preliminary design associated with the removal of the 105-KE Reactor was completed.
- 105-KE Reactor will be placed in ISS
- Engineering for core removal continues.



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100K Project Risk Status

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts.

Sub-project	Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence and Risk Mitigation	Emerging Risks and Risk Mitigation
K West Basin	<p>Future fuel and sludge handling will have potential to deposit additional sludge on K West Basin floor.</p> <p>Mitigation: Design sludge handling system with provisions to minimize depositing additional sludge on basin floor.</p>	
Facility D4	<p>Drawing unavailability / errors or undocumented facility configuration modifications cause work stoppage during facility isolation.</p> <p>Mitigation: Where necessary, hand-over-hand tracing is being performed. Utility isolation project will deactivate electrical and water over wide area, minimizing risk to incomplete isolation.</p>	
Sludge Treatment	<p>Results from the testing program yield different outcome than expected forcing redesign and/or different technology selection.</p> <p>Mitigation: Conduct testing necessary to support Critical Decision-2/3 in a timely manner.</p>	
Waste Site Remediation	<p>Risks have been realized associated with radiological conditions at waste site UPR-100-K-1 requiring additional controls and increased volumes of waste to manage resulting in more time and resources than expected.</p>	



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PBS RL-0012 – Project Performance

WBS & Title	Contract to Date (\$000)					BAC
	BCWS	BCWP	ACWP	SV	CV	
012.01 - Program Management	13191	13191	12223	0	968	25643
012.02 - Basin Operations & Maintenance	22462	22462	24201	0	-1739	64607
012.03 - Facility Operations	9502	9502	10508	0	-1006	42752
012.09 - Sludge & Fuel Disposition Management	4194	4194	4810	0	-616	5039
012.11 - 100K Facilities Deactivation	524	524	545	0	-21	524
012.13 - KE Basin Demolition	9220	9220	10402	0	-1182	9220
012.14 – KW Basin Decontamination & Deactivation	0	0	0	0	0	16455
012.15 0 KW Basin Demolition	0	0	0	0	0	25864
012.16 - Sludge Treatment Project	79716	75917	75928	-3799	-11	267813
012.90 - Assessments - PBS RL-12	6119	6119	7039	0	-920	13300
012.98 - Transition	21768	21768	23170	0	-1402	21768
012.99 - PBS RL-12 G&A and Direct Distributables	22032	22032	21913	0	119	87131
TOTAL RL-0012 - SNF Stabilization and Disposal	188728	184929	190739	-3799	-5810	580116



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PBS RL-0012 – Project Performance - continued

- Schedule Performance (-\$3.8M / -2.0 %)
 - The STP negative variance is due to: 1) Management decisions to hold procurement of the multi-canister overpacks (MCOs) until engineering evaluations were conducted (-\$0.9M); 2) difficult contract negotiations with the Phase 2 technology vendors (-\$0.7M); 3) several subcontracts for the Engineered Container Retrieval, Transport, and Storage (ECRTS) were not awarded as planned, and therefore now behind schedule (-\$0.8M); 4) Settler Tank sampling activities starting late due to the impact of the Settler Retrieval pump issues (-\$0.1M); 5) KOP Design, Testing and Pre-Treatment activities behind schedule (-\$0.8M); and 6) Engineered Container 210 sampling is behind schedule due to 100K basin vacuuming activities (-\$0.5M).
- Cost Performance (-\$5.8M / -3.1%)
 - The 100K negative variance (-\$3.6M) has two main components: 1) the impact to demolition and waste shipments from the K East Basin excavation has a variance of (-\$1.2M). The effort was completed in FY2009. 2) K West Basin Operations (-\$2.4M) impacts remaining from implementation of operational controls and cost to maintain aging facilities in the 100K Area.
 - The PBS RL12 G&A and Assessments negative variance (-\$2.2M) is related to the overall cost overrun of the PBS, drawing a larger allocation of this costs to the PBS.



PBS RL-0041 – Project Performance

WBS and Title	Contract to Date (\$000)					
	BCWS	BCWP	ACWP	SV'\$	CV \$	BAC
041.02.01.01 – 100K Area Planning and Integration	638	560	422	-78	138	1375
041.02.02.01 – 100-K Group 1 Structures Remediation	20435	19691	21325	-745	-1634	22765
041.02.02.02 – 100-K Group 1 Remediation	37212	33411	25230	-3801	8181	102554
041.02.03.01 – 100-K Group 2 Structures Remediation	3794	2447	1719	-1347	727	6943
041.02.03.02 – 100-K Group 2 Remediation	2781	5641	783	2860	4857	5641
041.02.04.01 – 100-K Group 3 Structures Remediation	4812	2169	2678	-2644	-509	32948
041.02.04.01 – 100-K Group 3 Remediation	7	835	0	828	835	835
041.02.06.01 – KW Deactivation	13016	15024	13649	2008	1375	20192
041.02.07.01 – 100K Area Utilities Re-Route	21753	21744	31083	-9	-9339	21753
041.02.08.01 – 105KE Reactor Disposition - ISS	9464	8884	9984	-580	-1101	9971
041.02.08.02 – 105KW Reactor Disposition	0	0	12	0	-12	22696
041.02.08.03 – Site Preparation	2938	2939	2748	1	191	5672
041.02.08.04 – 105KE Obstruction Removal	3152	3153	3098	0	55	4058
041.02.08.05 – Core Removal	5628	5627	5713	-1	-86	6362
041.02.08.06 – 105KE Demolition	0	0	0	0	0	0
041.02.09.01 – 618-10 & 11 Burial Grounds Remediation	0	0	0	0	0	36096
041.02.10.01 – RL41 Transition Sub Assignments	0	0	29	0	-29	0
041.02.11.01 – 100K Project Management	11766	10954	13765	-812	-2811	49985
041.02.12.01 – 100K Bioremediation	0	0	0	0	0	4781
041.90 - PBS RL-0041 Assessments	3699	3699	5023	0	-1324	28047
041.98 - WBS 041 Transition	11743	11743	6	0	1536	13009
041.99 - PBS RL-41 PRC G & A and Direct Distributables	23572	23572	21244	0	2328	87273
Total – RL-0041 – Nuc Fac &D – RC Closure Project	176411	172089	168711	-4321	3379	482953



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PBS RL-0041– Project Performance - continued

- Schedule Performance (-\$4.3M /-2.4%)
 - Negative schedule variance is due to: delays in waste site remediation around the 105KE Reactor bldg (-\$0.1M); delays to completion of the 100K Utilities Reroute projects impacting the performance of D4 Cold & Dark activities (-\$4.7M); 105KE Reactor for removal of the discharge chute (-\$0.6M); and Project Management for General Site Cleanup (-\$0.9M). The are partially offset by accelerated vacuuming and debris removal in 105KW Basin Debris Campaign (+\$2.0M).
- Cost Performance (+\$3.4M/+2.0%)
 - The positive cost performance is primarily from Waste Site Remediation which consists of 100-K Group 1 Remediation (+\$8.2M) due to 100-K-55 Part 1 and CSNA sites completing at lower cost than anticipated, 100-K Group 2 Remediation (+\$4.9) completing 100-K-56, Part 2 completing at lower cost than anticipated and 100-K Group 3 Remediation (+\$0.8M) caused by early completion of the CSNA sites at less cost than anticipated. In addition, K West Deactivation debris removal campaign exceeded performance goals (+\$1.4M) and G&A/direct distributable costs (+\$1.3M) being less than planned. These positive variances are being offset by 100K Project Management activities (-\$2.7M) where FY10 general site cleanup labor was utilized more than planned; Facilities (-\$1.2M) since planning continues but performance cannot be taken until after the C&D field work occurs; and 100K Area Utilities Reroute (-\$9.3M) due to realized risks and design changes.



PFP Closure Project TPA Milestone M-083



2736-ZB Glovebox Removal

**January 2011
Tri-Party Agreement Milestone
Status Report**

**Ecology Project Manager – R. Bond
DOE-RL Project Director – E. Mattlin
PFP Closure Project – D. Del Vecchio
CHPRC Environmental – S. Richey**



M-83 Status for Interim Milestones

(as of 12/31/10)

TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-32	9/30/11	COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT	<i>Complete</i>
M-083-42	9/30/11	COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY	<i>Complete</i>
M-083-24	6/30/12	SUBMIT S&M PLAN	<i>On Schedule</i>
M-083-43	9/30/13	COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PRF	<i>On Schedule</i>
M-083-44	9/30/15	COMPLETE TRANSITION OF THE 234-5-Z (PFP), 243-Z LLW Treatment, 291-Z and Z-1 Stack	<i>On Schedule</i>

Accomplishments (past 3 months)

- Removed Three Glove boxes in 2736 Z/ZB
- Completed cleaning PRF Canyon floor
- Removed and Dispositioned 21 Glove Boxes/Hoods (121 total removed, 110 shipped)
- Seven Glove boxes/Hoods Set Aside for Size Reduction
- Completed Set-Up and Initiated operation of a Glove Box Size Reduction Facility inside PFP
- Issued Contract and Shipped Four Glove Boxes for Size Reduction to Permafix Northwest (PFNW)
- Turned Pencil Tank 17 in Preparation for Size Reduction Efforts
- Over 1,500 Linear Feet of Asbestos Removed from PFP Piping and Ducting (Total Linear Feet Removed more than 13,000 Feet)
- 382 Feet of Process Vacuum Piping Removed for the Quarter (572 Total Feet Removed)
- 156 Feet of Transfer Lines Removed for the Quarter (345 Total Feet Removed)



Planned Activities (next 6 months)

- Finish Glovebox Removal and Complete Cold and Dark Activities, and Demolish 2736Z/ZB Facilities
- Remove Plutonium Reclamation Facility (PRF) Canning, Charging Hood and Maintenance (MT) gloveboxes
- Continue Lab and Process Areas glovebox Clean Out and Removal
- Continue PRF Pencil Tank Size Reduction
- Remove WT-4 and WT-5 Glove Boxes in the 242-Z Facility
- Continued Min-Safe Activities
- Submit RAWP and S&M Plan to Ecology for Review

Schedule / Cost Performance

Fiscal Year to Date Status (through December)

RL-0011 - Nuclear Material Stabilization & Disposal (PFP)	Fiscal Year to Date				
	BCWS	BCWP	ACWP	SV\$	CV\$
(ARRA/ & Base) -Total	32.6	36.5	35.0	11.3%	3.9%
(Numbers are rounded to the nearest \$0.1M)					

FYTD Schedule Performance: (\$3.9M/11.9%)

- Re-Planning of PRF Work Scope Eliminating the Remote Handling Approach to Size Reducing Pencil Tanks
- Partially offset by:
 - Breathing Air Issues
 - 242-Z entry point ventilation issues
 - Chemical decon issues

FYTD Cost Performance: (\$1.4M/3.9%)

- Efficiencies recognized on cross-cutting support to the D&D work teams (primarily in solid waste management, project management, nondestructive assay, consumables and subcontracts)

Issues

Regulatory Issues:

- None

Non-Regulatory Issues:

- Potential funding shortfall in FY2012

**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
Quarterly Presentation
January 20, 2011**



**Deborah Singleton, Ecology Lead
Michael Collins, RL Project Lead
Ronald Koll, ORP Project Lead**



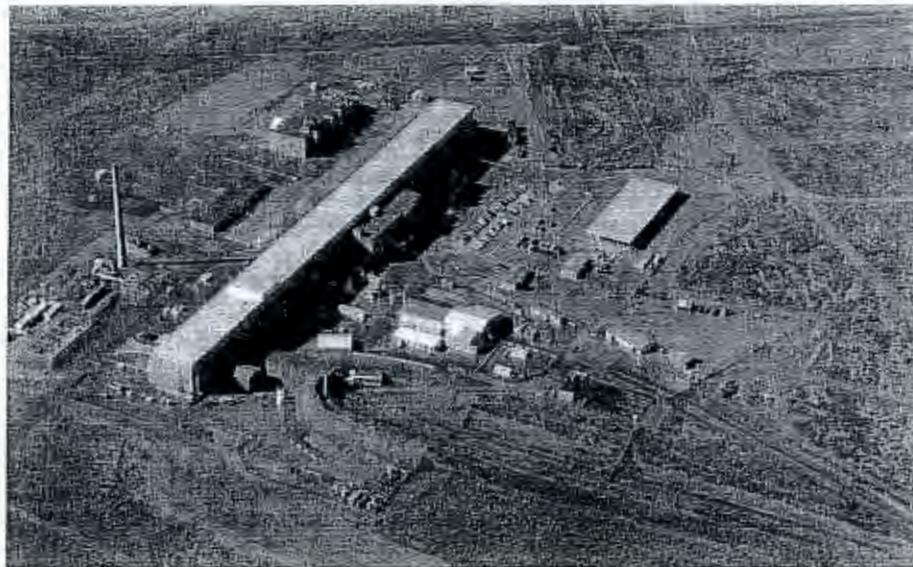
**Land Disposal Restrictions Report
(Tri-Party Agreement Milestone M-26-01)
January 20, 2011**

- **Accomplishments**
 - Started preparation of CY 2010 LDR Summary Report
 - Site-specific LDR variance request for 42 containers of ANL waste being drafted

- **Actions planned for the next six months**
 - Submit CY 2010 LDR Summary Report
 - Start storage assessments of potential mixed wastes at IMUSTS not associated with a building
 - Submit site-specific LDR variance request for 42 containers of ANL waste being drafted

Department of Energy – Richland Operations Office

Tri-Party Agreement Quarterly Milestone Review M-91 Series



January 20, 2011



E
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Department of Energy – Richland Operations Office

Significant Accomplishments of the Last Three Months

- M-091-03 Project Management Plan
 - Ecology provided comments on the 2010 plan
 - Letter drafted disapproving the 2010 plan
- Draft change package to combine this plan and the M-016-93 CERCLA Work Plan provided to Ecology and EPA



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Significant Accomplishments of the Last Three Months

- M-091-40 Retrievably Stored Waste (CH)
 - Volume retrieved – 824 m³ (127 m³ in the quarter)
 - Volume removed from trenches - 1001 m³ (196 m³ in the quarter)
 - Next Generation Retrieval – Completed readiness assessment activities for retrieval, work associated with processing suspended
- M-091-41 Retrievably Stored Waste (RH)
 - Total volume retrieved – 1 m³ (0 m³ in the quarter)
 - Total volume removed from trenches – 44 m³ (23 m³ in the quarter)



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Significant Accomplishments of the Last Three Months

- M-091-42 MLLW (CH, small container)
 - Total volume treated – 297 m³ (since 09/15/10)
 - Total volume shipped – 342 m³ (since 09/15/10)
 - 42 m³ in storage
- M-091-43 MLLW (RH and large container)
 - Total volume treated – 69 m³ (since 09/15/10)
 - Total volume shipped – 101 m³ (since 09/15/10)
 - 55 m³ in storage



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Significant Accomplishments of the Last Three Months

- M-091-44 TRUM Waste (RH and large container)
 - Total volume repackaged – 152 m³ (85 m³ in the quarter)
 - Total volume shipped – 243 m³ (134 m³ in the quarter)
 - Total volume assayed – 82 m³ (63 m³ MLLW, 19 m³ TRUM waste)
 - 6,215 m³ in storage



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Significant Accomplishments of the Last Three Months

- M-091-46 TRUM waste (CH, small container)
 - Shipped to WIPP or AMWTP – 563 m³ (52 m³ in the quarter)
 - Repackaged – 726 m³ (96 m³ in the quarter)
 - Repackaging Z-9 drums
 - 1,847 m³ in storage



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Fiscal Year 2011 (through December) Performance Measurement

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	1,795.8	1,795.8	1,903.9	0.0%	-6.0%
Waste Receiving and Packaging Facility	2,026.5	2,152.2	1,981.8	6.2%	7.9%
T Plant	2,596.4	2,594.6	2,595.3	-0.1%	0.0%
MLLW Treatment	3,493.9	1,653.9	1,568.0	-52.7%	5.2%
TRU Waste Retrieval	8,333.0	8,629.1	10,138.1	3.6%	-17.5%
TRU Waste Repackaging	3,150.6	3,908.1	5,154.6	24.0%	-31.9%
TRU Waste Disposition	3,412.6	6,001.7	2,954.7	75.9%	50.8%
Project Management	4,248.0	4,248.2	5,239.5	0.0%	-23.3%



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Variance Analysis

- **FYTD Schedule Variance:** The negative variance for MLLW treatment is due to the lack of feed from retrieval. The positive variance for TRU waste repackaging is due to obtaining the capability to repack large package TRU waste at Permafix Northwest. The positive variance for TRU waste disposition is due to characterization.
- **FYTD Cost Variance:** The negative variance for TRU waste retrieval is due to the condition of the containers and increased resource needs to implement Next Generation Retrieval. The negative variance for TRU waste repackaging is due to actions necessary to address beryllium concerns. The positive variance for TRU waste disposition is the reduced resources needed to characterize waste.



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Actions Planned for Next Six Months

- M-091-03 – Address Ecology comments, prepare 2011 plan
- M-091-40
 - Continue retrieval in Trench 17 (218-W-3A)
 - Recommence retrieval in Trench 11 (218-W-4B)
 - Start Next Generation Retrieval in 218-E-12B
- M-091-42
 - Continue treatment
 - Ship 25 m³ of sodium (debris) waste (formally no path forward)
- M-091-43 – Continue treatment
- M-091-44 – Ship additional 400 m³ to Permafix Northwest to repackage into a certifiable form



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Actions Planned for Next Six Months

- M-091-46
 - Continue repackaging at T Plant, recommence repackaging at WRAP
 - Complete shipments to Idaho
 - Continue shipments to WIPP
 - Approve Central Characterization Project certification program



SOIL AND GROUNDWATER REMEDIATION PROJECT MILESTONE REVIEW

M-015-00, M-016-00, M-024-00,
M-037-00, M-085-00



Tri-Party Agreement

**U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology
First Quarter FY11
January 20, 2011**

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00 – Complete RI/FS (or RFI/CMS & RI/FS) Process for All Non-Tank Farm Operable Units Except for Canyon/Associated Past Practice Waste Site Operable Units Covered in M-85-00			
M-015-00D	12/31/12	Submit PP for all 100 & 300 Area OUs to Complete RI/FS Process	On Schedule
M-015-21A	12/31/12	Submit 200-BP-5 and 200-PO-1 OU FS Report and PP(s) to Ecology	On Schedule
M-015-38B	04/30/12	Submit a Revised FS Report & Revised PP(s) for 200-CW-1, 200-CW-3, and 200-OA-1 OUs for Waste Sites in the Outer Area of the CP to EPA	On Schedule
M-015-60	ROD+6 Mo	Submit RD/RA Work Plan, if 100-NR-1/2 ROD Amend. is Issued	On Schedule
M-015-62-T01	12/31/11	Submit FS/PP for 100-NR-1/2 OUs Including GW and Soil	On Schedule
M-015-64-T01	11/30/11	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	On Schedule
M-015-66-T01	07/31/11	Submit RI/FS Report and PP for 100-KR-1/2/4 OUs for GW and Soil	On Schedule
M-015-68-T01	11/30/11	Submit RI/FS Report and PP for 100-BC-1/2/5 OUs for GW and Soil	On Schedule
M-015-70-T01	07/30/11	Submit FS Report and PP for 100-HR-1/2/3 and 100-DR-1/2 OUs	On Schedule
M-015-72-T01	12/31/11	Submit RI/FS Report and PP for 300-FF-2/5 OUs for GW and Soil	On Schedule
M-015-82A	12/31/10	Submit Treatability Test Plan as Amendment of 200-BP-5 WP	COMPLETED
M-015-82B	Approval of TTP + 6 mo	Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval	On Schedule
M-015-90	06/30/11	Submit Revised RFI/CMS and RI/FS Work Plan for 200-IS-1 to Ecology	On Schedule
M-015-91A	12/31/11	Submit RI/FS Work Plan for the 200-WA-1 OU (200 West Inner Area) to EPA	On Schedule
M-015-91B	06/30/13	Submit FS Report and PP for 200-WA-1 OU (200 West Inner Area) to EPA	On Schedule
M-015-92A	12/31/12	Submit RFI/CMS and RI/FS Work Plan for the 200-EA-1 OU (200 East Inner Area) to Ecology	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00 – Complete RI/FS (or RFI/CMS & RI/FS) Process for All Non-Tank Farm Operable Units Except for Canyon/Associated Past Practice Waste Site Operable Units Covered in M-85-00 (cont.)			
M-015-92B	06/30/14	Submit CMS & FS Report(s) & Proposed CA Decision(s)/PP(s) for 200-EA-1 & 200-IS-1 OUs (CP 200 East Inner Area) to Ecology	On Schedule
M-015-93A	12/31/11	Submit Revised RFI/CMS and RI/FS Work Plan for 200-SW-2 to Ecology	On Schedule
M-015-93B	12/31/16	Submit RFI/CMS & RI/FS & Proposed CA Decision/PP for 200-SW-2 to Ecology	On Schedule
M-015-110A	09/30/12	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology. The Work Plan shall include technology screening that identified technologies applicable for characterization, treatment, and monitoring of deep vadose zone contaminants.	On Schedule
M-015-110B	09/30/15	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	On Schedule
M-015-110C	12/31/10	Submit Uranium Treatment Technology TTP as an element of the RFI/RI for 200-DV-1 OU to Ecology	COMPLETE
M-015-110D	06/30/12	Submit Tc-99 Pilot Scale Treatability Study Test Report as an element of RI for 200-WA-1 to EPA	On Schedule
M-016-00 – Complete Remedial Actions for all Non-Tank Farm and Non-Canyon Operable Units			
M-016-110-T01	12/31/12	Take Actions to Contain or Remediate Hexavalent Cr 100A GW Plumes	On Schedule
M-016-110-T02	12/31/20	Take Actions Such That Hexavalent Cr Meets Drinking Water Stds.	On Schedule
M-016-110-T03	12/31/16	Take Actions to Contain Sr-90 GW Plume at 100-NR-2 OU	On Schedule
M-016-110-T04	12/31/16	Implement Remedial Actions in all 100A RODS for GW OUs	On Schedule
M-016-110-T05	12/31/15	Implement System to Meet Drinking Water Stds. for U at 300-FF-5 OU	On Schedule
M-016-111B	12/31/10	Expand P&T System at 100-HR-3 OU to 500 gpm Capacity	COMPLETE
M-016-111C	12/31/11	Expand P&T System at 100-HR-3 OU to 800 gpm Capacity	On Schedule
M-016-119-T01	12/31/20	Remedy in Place to Contain GW Plumes in 200 NPL Area	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-016-00 – Complete Remedial Actions for all Non-Tank Farm and Non-Canyon Operable Units (cont.)			
M-016-120	12/31/11	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	On Schedule
M-016-122	12/31/11	Begin Phase 1 Operation of 200W Pump and Treat System	On Schedule
M-016-200A RL-40	09/30/17	Complete U Plant Canyon (221-U) Demolition in accordance w/ RD/RAWP	On Schedule
M-016-200B RL-40	09/30/21	Complete U Plant Canyon (221-U) Barrier Construction in accordance w/ the RD/RAWP	On Schedule
M-024-00 – Complete Well Installations with RCRA/CERCLA Requirements			
M-024-58D	06/01/11	Initiate Discussions of Well Commitments	On Schedule
M-024-58E	06/01/12	Initiate Discussions of Well Commitments	On Schedule
M-024-61	12/31/10	DOE Shall Complete Construction of all Wells Listed	COMPLETED
M-024-62	12/31/11	DOE Shall Complete Construction of all Wells Listed	On Schedule
M-024-62-T01	08/01/11	Conclude Discussions of Well Commitments	On Schedule
M-024-63	12/31/12	DOE Shall Complete Construction of all Wells Listed	On Schedule
M-024-63-T01	08/01/12	Conclude Discussions of Well Commitments	On Schedule
M-037-00 – RCRA Closures			
M-037-01	12/31/2010	Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-S-141/142) TSD unit. Note: Issuance of the draft closure plan as part of public comment on Revision 9 of the Hanford Facility RCRA Permit satisfies this milestone.	COMPLETED
M-037-02	06/30/2014	Submit Revised Closure Plans to support TSD closure for five (5) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, and 216-B-63 Trench.	On Schedule
M-037-03	04/30/2012	Submit Revised Closure Plans to support TSD closure for two (2) TSD Units: 216-B-3 Main Pond system, and 216-S-10 Pond and Ditch.	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-037-00 – RCRA Closures (cont.)			
M-037-10	09/30/2020	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	09/30/2016	Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch.	On Schedule
M-085-00 RL 40 – Complete Response Actions for the Canyon Facilities/Associated Past Practice Waste Sites, other Tier 1 CP Facilities not covered by existing milestones, and Tier 2 CP Facilities			
M-085-01 RL 40	09/30/12	Submit Change Package to establish date for major Milestone M-85-00	On Schedule
M-085-10A RL 30	12/31/11	Submit RI/FS Work Plan for 200-CB-1 (B Plant Canyon/associated past practice waste site) to Ecology	On Schedule
M-085-20A RL 30	09/30/15	Submit RI/FS Work Plan for 200-CP-1 (PUREX Canyon/associated past practice waste site) to Ecology	On Schedule
M-085-30A RL 30	12/31/17	Submit RI/FS Work Plan for 200-CR-1 (REDOX Canyon/associated past practice waste site) to EPA	On Schedule
M-085-50 RL 40	12/31/15	Submit Revised RAWP for the 224-B Concentration Facility in accordance with the Action Memo for the Non-Time Critical Removal Action for the 224-B Plutonium Concentration Facility (DOE/RL-2004-36). A change package with a completion milestone will accompany the submittal of the work plan.	On Schedule
M-085-51 RL 40	12/31/25	Submit RAWP for the 224T TRUSAF in accordance with the Action Memo for the Non-Time Critical Removal Action for the 224-T Plutonium Concentration Facility (DOE/RL-2004-68). A change package with a completion milestone will accompany the submittal of the work plan.	On Schedule
M-085-60 RL 40	03/31/18	Complete EE/CA Report(s) for all Tier 2 Facilities listed in Appendix J	On Schedule

Accomplishments – 1st Quarter FY2011

- 214 well locations were sampled with a total of 1,345 samples being collected
- 162 aquifer tube samples were collected from 32 tubes at 18 sites
- 18.64M gallons groundwater treated by ZP-1 treatment facility
- 20.815M gallons groundwater treated by KX treatment facility
- 8.8M gallons groundwater treated by KW treatment facility
- 7.5M gallons groundwater treated by HR-3 treatment facility
- 0.96M gallons groundwater treated by DR-5 treatment facility
- 14.64M gallons groundwater treated by DX treatment facility
- 71.3M gallons of groundwater treated total
- KR-4 treatment facility shutdown in December for facility upgrades
- 7 waste sites completed (28 total)
- As of the week of January 10, 2011, ~116 acres of BCCA Zone A remediation (~83% acres complete) and ~304,000 tons (cumulative) have been disposed of at ERDF
- Completed remediation of 200 North (CW-3)
- Established new milestones for RCRA Closures (M-037 Series)
- Established new milestones for Facility-based OU Remediation (M-085 Series)

Significant Accomplishments

200-UP-1

- The Draft A 200-UP-1 OU RI/FS Report and Proposed Plan was transmitted to the regulators on September 27, 2010 meeting TPA Milestone M-15-17A ahead of schedule.
- Completed 100% design for the S-SX extraction system. Completed placement of structural fill and initiated concrete work for the S-SX transfer building.

200-MG-1

- The SAP Rev 1 was approved by EPA and Ecology on January 10, 2011.

200-Deep Vadose Treatability Test Plan

- The Desiccation Pilot Test was initiated on November 8, 2010 and will continue field work for the next six months.

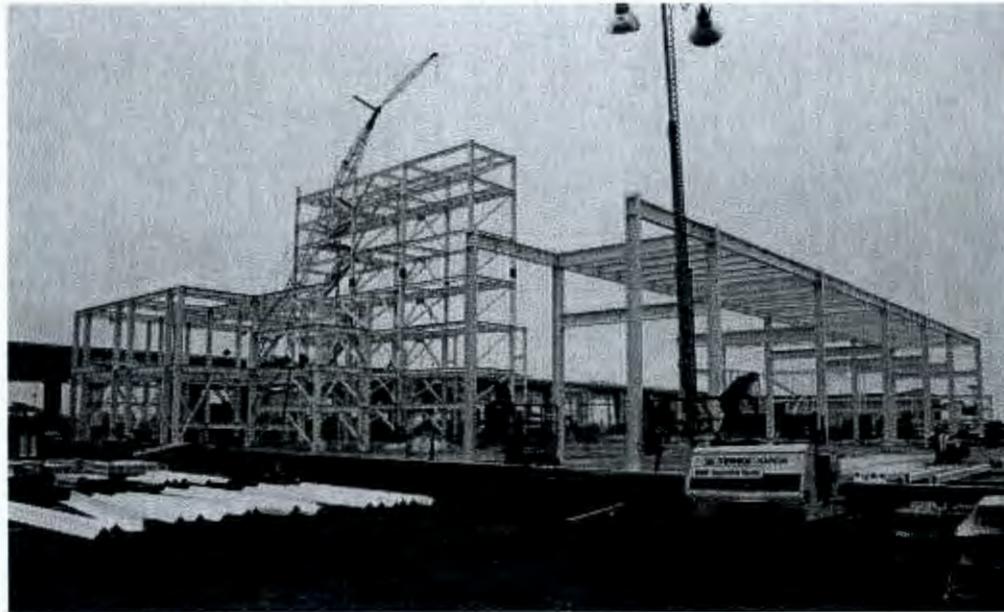
200 E Tier 2 Facilities

- On November 22, 2010, the EE/CA (Rev. 0, November 2010) was issued and used to support the EE/CA's public comment period, November 22, 2010, through December 27, 2010 (Note: comments received after December 27, 2010, are being addressed).
- In December 2010, the EE/CA (Rev. 0) was reissued as the EE/CA (Rev. 1), which is the same as Rev. 0, with blank pages deleted.
- On January 04, 2011, RL transmitted EE/CA (Rev. 1) to Ecology, EPA, Tribal Nations, the State of Oregon, and the AR et al. The Rev. 1 supports partial completion of Hanford Federal Facility Agreement and Consent Order Milestone M-085-060, "Complete EE/CA report(s) for all Tier 2 facilities listed in Appendix J," as the EE/CA for the 200 West Area Tier 2 facilities has not been prepared and completed.

Significant Accomplishments

200 West Area Groundwater Treatment Facility

- The week ending December 30, 2010, the project poured approximately 400 cubic yards bringing the project to date to approximately 7,350 cubic yards have been placed.
- Continued inside grading, rough-in electrical, temporary heat, fire protection and power for the Biological Building and the structural steel erection was completed for the Bio Process Building.
- Phase I construction of road crossings: the final one hold until transition of extraction well disconnection from ZP-1. (Currently 46 of 47 complete).



The structural steel erection was completed for the Biological Process Building at the 200 West Groundwater Treatment Facility

Significant Accomplishments



Aerial Photo of the 200 West Area Groundwater Treatment Facility

Significant Accomplishments

Railcars Disposition

- Revision 0 of the Action Memorandum addendum to the 212-N, -P, and -R Facilities EE/CA, was approved on December 6, 2010.

Multi-Increment Sampling

- MIS verification sampling is complete for the first MIS activity. All samples have been delivered to Ecology. Discussion of a second site (heterogeneous) is continuing.

100-NR-2

- The NR-2 Sampling Analysis Plan (SAP) for collecting upwelling (river-porewater) samples from the bottom of the Columbia River along the 100-N shoreline was approved by the Tri-Parties on November 8, 2010.
- The second round of spatial-and-temporal groundwater well sampling was completed with all of the 26 wells now sampled.
- The third round of aquifer tube sampling planned under TPA-CN-353 was completed. This concludes the sampling requirements for this TPA CN (as also planned in the proposed 100-N RI/FS SAP).
- To expedite the 100-N RI/FS well drilling work, the associated 100-N RI/FS SAP was finalized to a Rev. 0 to include the currently identified remedial-investigation activities prior to final approval of the work plan addendum. All Ecology comments were resolved pertaining to the 100-N RI/FS well drilling work. Additional SAP comments will be resolved in conjunction with the RI/FS WP. The Rev. 0 SAP was released and approved by RL and Ecology on December 30, 2011.

Significant Accomplishments

100-BC-5

- The third and final round of spatial-and-temporal groundwater sampling from existing wells for 100-BC was completed.

100-HR-3

- The new DX pump and treat system was transitioned to operations in mid-December, completing TPA milestone M-16-111B, which required the HR-3 Operable Unit treatment capacity to reach 500 gpm.

100-KR-4

- Conducted 60% design review on the bio-infiltration system to be installed for the KW treatability test.
- Completed KR-4 transfer building #1 modifications for Phase 3 realignment to add two new future extraction wells (to be drilled) to the KR-4 P&T system.
- Received State Historic Preservation Office (SHPO) concurrence with the Determination of No Adverse Effect to HCRC#2010-100-025 on November 18, 2010, installation of new wells for Phase 3 realignment.

200-PW-1/3/6 & 200-CW-5

- The Draft C PW-1/3/6 Feasibility study and the Draft A of the Proposed Plan for combined CW-5 and PW-1/3/6 was submitted to EPA on January 11, 2011. Comments are due within 45 days.

Soil and Groundwater Treatment Progress FY2011

Treat a total of 500 million gallons of 100 Area groundwater in FY 2011

Through First Quarter

131.2 million gallons of groundwater treated

66.1 kg of contaminants removed from treated groundwater

500

400

300

200

100

0

Soil and Groundwater RL-40 Waste Site Progress FY2011



*Ship 162,000 tons of soil to ERDF
Remediate 24 Waste Sites*

160,000

128,000

96,000

*Through First Quarter
89,517 tons of soil delivered to ERDF
7 Waste sites remediated*

64,000

32,000

0

CHPRC1091-29-A

Soil and Groundwater RL-41 Waste Site Progress FY2010

*Recovery Act funds support:
Shipping 100,000 tons of soil to ERDF
Remediating 15 Waste Sites*



PROJECT BASELINE PERFORMANCE

Contract-to-Date

(\$M)

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)
ARRA RL-0030.R1.1 GW Capital Asset	91.3	88.4	88.8	(2.9)	-3.2	(0.4)	-0.5	168.4	192.1	-23.6
ARRA RI-0030.R1.2 GW Operations	<u>63.6</u>	<u>61.0</u>	<u>55.7</u>	<u>(2.6)</u>	-4.1	<u>5.3</u>	8.7	<u>84.3</u>	<u>85.4</u>	<u>-1.3</u>
ARRA Total	155.0	149.4	144.5	(5.5)	-3.6	4.9	3.3	252.7	277.5	-24.7
Base	<u>298.0</u>	<u>293.3</u>	<u>291.5</u>	<u>(4.7)</u>	-1.6	<u>1.8</u>	0.6	<u>1,256.1</u>	<u>1,222.8</u>	<u>33.3</u>
Total	453.0	442.7	436.0	(10.3)	-2.3	6.7	1.5	1,508.8	1,500.2	-8.6
Numbers are rounded to the nearest \$0.1M.										

PROJECT BASELINE PERFORMANCE

Contract-to-Date

ARRA

CTD Schedule Performance: (-\$5.5M/-3.6%)

The primary contributors to the ARRA CTD negative schedule variance that exceed the reporting thresholds are as follows:

ARRA RL-0030.R1.1 GW Capital Asset (-\$2.9M)

200 ZP-1 Operable Unit (-\$3.0M)

Delay is a result of late design delivery as long lead equipment vendors were not released to fabricate on schedule. The following procurement activities are behind: Fluidized Bed System, Fiberglass Reinforced Plastic Tanks, Electrical Cable, and Air Stripper. This schedule variance is expected to be recovered without a negative impact to the overall project completion date.

ARRA RL-0030.R1.2 GW Operations (-\$2.6M)

Drilling (-\$1.4M)

Drilling delays due to:

Management directed stop work and subsequent prioritization of RI/FS drilling (KW RPO, BC-5 RI/FS, and well decommissioning

Delays SAPs (NR-2)

Priority ranking with funding uncertainties (HR-3 Bioremediation)

Drilling project is reviewing staffing plan and evaluating processes to identify cost efficiencies.

Ramp-up and Transition (-\$1.2M)

The negative schedule variance is the result of engineering delays and resource shortages experienced early in the project. A recovery plan is being worked with the project completion date expected to be in January 2011.

CTD ARRA Cost Performance: (+\$4.9M/+3.3%)

The primary contributors to the ARRA CTD positive cost variance that exceed the reporting thresholds are:

ARRA RL-0030.R1.2 GW Operations (+\$5.3M)

Drilling (+\$3.1M)

Efficiencies and savings obtained in drilling for 100-NR-2, 100-HR-3, and 200-BP-5 wells. Cost efficiencies are being obtained through an aggressive drilling schedule with savings in support personnel, faster drilling methods and the fact that the HR-3 well depths have been less than originally planned. Well decommissionings have also been completed for less than planned.

Regulatory Decision and Closure Integration (+\$1.7M)

Completing work scope more efficiently than planned, primarily in the areas of multi-incremental sampling (using existing documentation and direct haul rather than staging); borehole drilling and landfill characterization (competitive subcontracting of drilling support and efficient field support); and document preparation (200-BC-1 data validation and Data Quality Assessment reports).

PROJECT BASELINE PERFORMANCE

Contract-to-Date

Base

CTD Schedule Performance (-\$4.7M/-1.6%)

The following schedule variances exceed the reporting thresholds:

Drilling (-\$1.0M)

The 200-ZP-1 RFP was received from the drilling subcontractors. It will be rebid. The contract will be revised to include the drilling of four wells with the option for an additional four wells as there is uncertainty with the number of wells that will be drilled. No long term impact is expected as a result of this change.

100 NR-2 OU (-\$0.8M)

Unfavorable variance has resulted from:

Delays in RI/FS sampling and analytical work due to the additional time needed to complete approval of 100-N RI/FS work plan addendum and SAP

Delays in initiating the barrier expansion activities pending funding resolution

100 HR-3 Operable Unit (+\$2.4M)

HX construction activities (process building equipment procurement/installation, distribution of electricity and piping, and erect process building) are proceeding ahead of schedule.

200-UP-1 Operable Unit (+\$0.8M)

S-SX construction activities planned later in FY2011 were performed early.

300 FF-5 Operable Unit (-\$1.1M)

Delays are primarily related to:

Alternative Emplacement Investigation work due to funding prioritization. Impacts will be determined when funding is definitized.

Reprioritization of sampling resources earlier this fiscal year has delayed FF-5 specific drilling activities – recovery expected by mid FY11.

Regulatory Decision/Closure (-\$2.0M)

Several activities are delayed or on hold due to developing discussions on the tentative agreement and or funding/prioritization issues resolution (Feasibility study, 200 West Decision Documents, 200 East Decision Documents and Sampling Characterization).

PROJECT BASELINE PERFORMANCE

Contract-to-Date

Base (cont.)

CTD Cost Performance (+\$1.8M/+0.6%)

Primary contributors to the CTD positive cost variance are as follows:

100-NR-2 OU (+\$1.9M)

Performed chemical treatment and maintenance scope, jet grouting pilot test work, RI/FS Work Plan and Interim Proposed Plan Reporting more efficiently than planned.

200-ZP-1 Operable Unit (+\$2.3M)

- 1) Interim Operations reflects significant progress and cost under-runs have been achieved to date for Annual System Calibration.
- 2) Design of the permanent hookup of well EW-1 was lower than planned as only minor changes were needed to an existing design.
- 3) Cost for performing general operating and maintenance and minor modification activities have been lower than planned as the system has been running smoothly.
- 4) Cost for collecting depth-discrete groundwater and soil samples during the installation of new wells was less than planned.

200 PW-1 OU (+\$0.8M)

Labor and subcontract cost for general operations and minor mods support is less than planned. In addition, the SVE system testing, prior to March 1, 2010, went smoothly with no significant repairs and the excessing of the two old SVE units required significantly less labor than planned.

Usage Based Services (-\$1.6M)

Increased cost associated with training due to the additional ARRA work in FY2010 and fleet services costs that occurred in FY2009 and FY2010. Overruns will continue to be funds-managed within the S&GRP project.

PROJECT BASELINE PERFORMANCE

Contract-to-Date

(\$M)

WBS 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)
U Plant/Other	124.9	120.8	107.7	(4.1)	-3.3	13.1	10.9	197.6	189.7	7.9
Outer Zone	<u>44.6</u>	<u>44.0</u>	<u>35.6</u>	<u>(0.6)</u>	-1.3	<u>8.4</u>	19.1	<u>86.7</u>	<u>87.7</u>	<u>-0.9</u>
ARRA Total	169.5	164.8	143.3	(4.7)	-2.8	21.5	13.1	284.3	277.4	7.0
Base	<u>49.5</u>	<u>49.3</u>	<u>43.1</u>	<u>(0.2)</u>	-3	<u>6.2</u>	12.7	<u>979.7</u>	<u>965.8</u>	<u>13.9</u>
Total	219.0	214.1	186.4	(4.9)	-2.2	27.7	13.0	1,264.0	1,243.3	20.9

Numbers are rounded to the nearest \$0.1M.

PROJECT BASELINE PERFORMANCE

Contract-to-Date

ARRA

CTD Schedule Performance: (-\$4.7M/-2.8%)

ARRA RL-0040.R1.1 U Plant/Other D&D (-\$4.1M)

The negative schedule variance is due to late award of the grout contract for U Canyon (-\$2.8M), delays with the 200E Administration Buildings (-\$1.8M) due to bio-hazard and radiological control issues, delay in receiving capital equipment (-\$0.3M), and U Ancillary demolition (-\$0.4M) schedule delays due to asbestos abatement/respirator issues. This is offset by accelerating 209E demolition preparation, mobilization, and asbestos abatement (+\$1.1M). Minor accounts within threshold (-\$0.1M).

ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.6M)

The contract-to-date unfavorable schedule variance (-\$0.1M) is due to deferral of work on 600-220, 600-226, and 200-W-147-PL pending approval of regulatory documentation. Several ALE towers have not been released for work causing a negative schedule variance (-\$0.6M) and the Railcars Disposition was started early (+0.1M).

CTD Cost Performance: (+\$21.5M/+12.3%)

ARRA RL-0040.R1.1 U Plant/Other D&D (+\$13.1M)

The favorable cost variance is largely due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$3.0M), G&A and direct distributable allocations (+\$8.5M), less for Program Management than planned (+\$0.8M), efficiencies at U Canyon (D4) (+\$3.1M), less resources than planned for C-3 Sampling (+\$0.7M) and 200E Administration (+\$2.1M), lower than planned costs for capital equipment (D4) (+\$2.6M), offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$6.3M), coupled with increased insulator staff and overtime to recover schedule, 209E Project (+\$0.3M) and higher MSA (-\$1.9M) costs for Fleet/Training, etc. In addition, minor accounts outside the threshold (+\$0.2M).

ARRA RL-0040.R1.2 Outer Zone D&D (+\$8.4M)

The favorable cost variance is due to efficiencies in ALE Facilities D&D (+\$4.2M) and Outer Area waste sites (+\$5.4M). The waste site favorable cost-to-date variance is due to an O Zone RTD Waste Sites adjustment (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks

In addition, a negative cost variance is associated with the disposition of railcars (-\$0.1M) due to unplanned costs for non-destructive analysis of the cars and increase costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated.

PROJECT BASELINE PERFORMANCE

Contract-to-Date

Base

CTD Schedule Performance: (-\$0.2M/-0.30.0%)

Within reporting threshold.

CTD Cost Performance: (+\$6.2M/+12.7%)

The favorable cost variance is associated with recognized efficiencies for demolition of the Industrial 7 Project (D4) (+\$0.6M) as a result of utilization of existing site equipment and materials, surveillance and maintenance costs (D4) (+\$1.0M) less than expected, completed the sampling of Cell 30 with less resources than planned (+\$0.9M), Program Management utilizing less resources (+\$1.1M), capital equipment (+\$0.3M), Usage Base Services (+\$0.1M) and underrun in G&A and direct distributable allocations (+\$0.6M). In addition, minor accounts outside the threshold (+\$0.9M).

The favorable cost variance for Waste Sites (+\$0.7M) is due to less extensive regulatory support labor required for the U Zone agreement-in-principal and an inadvertent overstatement of performance related to the 600 Central Landfill barrier in March 2010 and the completion of a confirmatory sampling waste site located within BC Controlled Area.

Planned Activities

Next 6 Months

100-NR-2

- Resolving Ecology comments on the Draft B of the 100-N Area RI/FS Work Plan Addendum and SAP, and subsequently will produce the final Rev. 0 for approval and issuance.
- Prepare the RD/RA WP for the IROD Amendment.

100-HR-3

- Complete the HR-3 Expansion utilizing to total capacity from HR-3, DR-5 and DX. Once the DX ATP is complete (expected in Nov. 2010), the OU P&T capacity will be 900 gpm.

200-BP-5

- Complete Draft A Treatability Test Plan for the B-Complex Area.
- Complete Decisional Draft of the Remedial Investigation (RI) Report.
- Complete the 200-BP-5 and 200-PO-1 Combined FS Report.

200-PO-1

- Complete the RI Report.
- Complete preparation of the 200-BP-5 and 200-PO-1 Combined FS Report.

200-UP-1

- Complete the Draft A combined RI/FS Report and Proposed Plan.

200-ZP-1 / 200-PW-1 SVE

- Continue Treatability Testing using activated carbon for Tc-99 removal.
- Complete all road crossing and laying of HDPE piping.
- Complete construction of shell for transfer buildings as well as RAD/Bio-Process buildings.
- Continue work on simulator-based training program.

200-MG-1/2

- Implement the 200-MG-1 RAWP and SAP for added 37 Outer Area Waste.

Planned Activities

Next 6 Months

200-IS-1

- Revise the RFI/CMS & RI/FS Work Plan for 200-IS-1.

200-PW-1/3/6 and CW-5

- Receive comments on the Draft 200-PW-1/3/6 C FS from EPA.
- Finalize 200-CW-5 FS.
- Finalize 200-PW-1/3/6 and 200-CW-5 PP.

200-Deep Vadose (Uranium) Treatability Test Plan

- Submit the Field Test Plan for the Uranium Sequestration activity to the regulators for review and comment.

BCCA Zone A Complete

- A total of 140 Acres.

Outer Zone Complete

- 19 waste sites in FY 2011.

200 E Tier 2 Facilities

- Complete Action Memo for 200 E Tier 2 Facilities.
- Complete RAWP and SAP for 209E.
- Complete 209E Structure, 296-P-31 Stack, and Below Grade Tanks Demolition and Debris Removal.

TSD Closure Plan – Hexone Storage and Treatment Facility

- Resolve Ecology comments on the Plan.

Other Items for Discussion

1. Comments are due on the following documents:

200-PO-1 RI Report

- Draft A RI Report was transmitted to the regulators by DOE on 6/10/10.
- Ecology requested first 30-d extension on 7/2/10 to 8/20/10.
- Ecology requested second 30-d extension on 8/20/10 to 9/17/10.
- A meeting was held November 22, 2010 for Ecology to discuss general comments/concerns, at which time, Ecology provided a draft comment set (hardcopy) and indicated that a final comment set would be transmitted.
- Final/formal comments remain pending.

200-UP-1 OU RI/FS Report and Proposed Plan

- Draft A was transmitted to the regulators on September 24, 2010 for review.
- Regulator comments on the RI/FS were received December 7, 2010 and are in the process of being dispositioned.
- Comments on the Proposed Plan are expected by mid-January.
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100-N RI/FS Work Plan Addendum

- Comment resolution for the work plan addendum continued with Ecology during meetings held on January 4 and 13, 2011.
- Over 200 days of slip have now been realized.
- TPA Target Date M-15-62-T01 for the RI/FS Report and Proposed Plan is currently December 31, 2011. The target date will be moved based on the final approval date.

2. Document Consistency Efforts