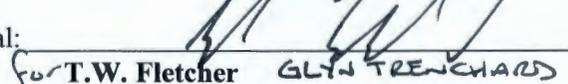
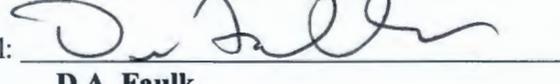
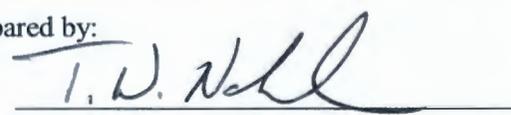


**Office of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
August 15, 2013**

Approval:  Date: 9/16/13
J.A. Hedges
Ecology IAMIT Representative

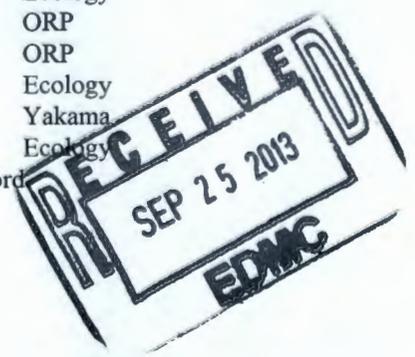
Approval:  Date: 9-24-13
T.W. Fletcher **GLYN TRENCHARD**
DOE IAMIT Representative

Approval:  Date: 9/16/13
D.A. Faulk
EPA IAMIT Representative

Minutes Prepared by:  Date: 9/25/13
T.W. Noland
Mission Support Alliance

- | | | | |
|-------------------|---------|-----------------------|---------|
| Abdul, W. | ORP | Kemp, C.J.* | ORP |
| Barnes, M.W.* | Ecology | Killoy, S.E.* | WRPS |
| Bohnee, G. | NPT | Koll, R.J.* | ORP |
| Braswell, S.M. | MSA | Knight, D.P.* | ORP |
| Brown, M.J. | Ecology | Knox, K.E.* | KCR |
| Caggiano, J.A. | Ecology | Luke, J.J.* | WRPS |
| Charboneau, S.L. | ORP | Lynch, J.J.* | ORP |
| Cimon, S.* | ODE | Lyon, J.J.* | Ecology |
| Dahl, S.L. | Ecology | Mauss, B.M. | ORP |
| Diediker, J.A. | ORP | Mattlin, E.M. | ORP |
| Donnelly J.W. | WRPS | McDonald, D.* | Ecology |
| Dowell, J.A.* | RL | Nazarali, A.* | CTUIR |
| Eberlein, S.J. | WRPS | Niles, K. | OOE |
| Einan, D.R. | EPA | Noland, T.W.* | MSA |
| Faulk, D.A.* | EPA | Noyes, D.L.* | ORP |
| Fletcher, T.W. | ORP | Pfaff, S.H.* | ORP |
| Gadbois, L.E. | EPA | Piippo, R.E.* | MSA |
| Grindstaff, J.F. | ORP | Price, J.B. | Ecology |
| Harrington, C.C.* | ORP | Shattuck, A.F. | MSA |
| Harris, S. | CTUIR | Skinnarland, E.R. | Ecology |
| Hedges, J.* | Ecology | Smith, D.M.* | ORP |
| Hendrickson, M.L. | Ecology | Trenchard, G.D.* | ORP |
| Higgins, K.L. | ORP | Uziemblo, N.H.* | Ecology |
| Hildebrand, R.D. | RL | Vanni, J. | Yakama |
| Huffman, L.A. | ORP | Whalen, C.L.* | Ecology |
| Jim, R. | Yakama | Administrative Record | |
| Johnson, J.M.* | ORP | | |
| Kaldor, R.A.* | MSA | | |

*Attendees



Office of River Protection
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
August 15, 2013

Administrative Items/Milestone Status

ORP provided the TPA and Consent Decree (CD) list of agreements, issues and actions that was discussed and updated during the dry run meeting held August 13, 2013. ORP noted issues No. 2 and No. 3, regarding tanks AY-102 primary tank leak and T-110 and other single-shell tank level decreases, were updated to reflect the current activities. Ecology inquired about the request during the dry run meeting for an action regarding the process to revise documents. ORP responded that action No. TF-13-08-01 addresses Ecology's request to discuss current work structure processes.

ORP stated that the TPA monthly summary report lists the milestones for fiscal years 2013, 2014 and 2015, noting that milestones M-045-61/62 and M-045-82, due in FY15, are to be missed. ORP stated that all of the milestones in the CD monthly summary table are listed as ongoing, but the reporting on specific milestones includes an issues section about notifications of serious risk for meeting a milestone. Ecology asked why the CD monthly summary report states that the Low Activity Waste (LAW) substantially complete milestone is ongoing, but it has been formally declared to be at risk. ORP responded that in the LAW section of the CD report, the milestone is listed with an asterisk, and there is a reference to the notification of serious risk to meeting the milestone. ORP added that is the formatting for reporting milestones it has been guided to use. Ecology objected to the formatting, given that formal notification has been made that the LAW milestone is at risk. Ecology noted that the TPA monthly summary lists the milestones to be missed in the milestone status, but not in the CD monthly summary. ORP responded that it has been guided to use a reporting mechanism in the CD that is different from the TPA monthly summary, and all the milestones in the CD are to be listed as ongoing. ORP took an action to provide Ecology an explanation for the different reporting mechanisms for milestones in the TPA and CD monthly summary reports.

Ecology made an official request for ORP to schedule meetings in October 2013 to discuss the three-year review of the CD requirements (milestone D-006-00-A). Ecology also requested scheduled time in September 2013 for ORP to bring forward information on what CD milestones are at risk so that Ecology can be prepared for discussions during the October 2013 meetings.

System Plan; M-62-40

ORP reported that framing sessions for System Plan 7 were initiated in June 2013. During one of the framing sessions, an HTWOS model demonstration was provided so that all of the parties could have an understanding of how the model works from start to finish. Two additional framing sessions were held to review the assumptions for System Plan 6, and the assumptions table was updated. Following that, two more framing sessions were held for single-shell tanks

and double-shell tanks, and Ecology provided four possible scenarios.

ORP reported that a meeting will be held with Ecology program managers to discuss ORP's current uncertainties with System Plan 7. ORP stated that internal conversations are needed before ORP continues to move forward with System Plan 7. ORP will schedule a meeting with Ecology next week to discuss its uncertainties and a path forward. Ecology asked if ORP is anticipating a delay in the system plan. ORP responded that internal discussions are needed before providing a response to Ecology. Ecology asked about the potential for a change package. ORP stated that a change package is under consideration, but that internal discussions are still needed. ORP added that there was a conversation about bringing in a discussion on the one-time tank waste supplemental treatment technologies report (M-062-40ZZ). A draft has been submitted to Ecology, and Ecology has responded with comments. ORP stated that a discussion on the one-time technologies report will be included in the meeting with Ecology next week.

Acquisition of New Facilities; M-90-00, M-47-00

ORP stated that there was no change in status since the last project managers meeting or quarterly report. ORP noted that the conceptual design reports and the remaining critical decision 1 documents under milestones M-09-13 and M-047-07 are due by the end of FY14. Ecology asked about the availability of funding to move forward after the CD-1 documents and conceptual design reports are available at the end of FY14. ORP responded that the projects have been and continue to be in the baseline, and it will continue to be a matter of securing funding year by year to be able to move the projects forward.

Supplemental Treatment/Part B Permit Applications; M-62-00, -20, -30, -45

M-062-40ZZ/M-062-45ZZ - ORP reported that negotiations with Ecology have been under way for several months on the one-time tank waste supplemental treatment technologies report (40ZZ). A draft change package was sent to Ecology that proposed moving the dates out for 40ZZ and 45ZZ. Ecology responded with a proposal to move the due date back six months from the October 2014 due date for 40ZZ. ORP stated that negotiations are not yet concluded on the change package.

242-A Evaporator Status

ORP reported that the evaporator campaign schedule has not changed for the last three weeks. ORP stated that meetings are being held with WRPS readiness activity staff, and that WRPS has a team and plan of action in place. ORP's plan of action is in the process of being approved. WRPS is scheduled to start the operational acceptance test (OAT) cold run on September 23, 2013, ending on October 22, 2013. WRPS will start its readiness assessment on October 23, 2013, ending on November 6, 2013. The following day, ORP will begin its readiness assessment, and a team is in place for all of the engineering staff that will be needed. ORP stated that if all goes as planned, the results will be handed over to the authorized designee to approve operations on November 21, 2013. ORP noted that this time frame falls during the Thanksgiving holiday, and approval, or approval with possible corrections before the evaporator facility can

operate, will be provided. The evaporator campaigns are scheduled to start by November 26 or 27, 2013. ORP noted that the evaporator schedule was provided to Ecology on Monday (8/12/13), and that ORP is now meeting with WRPS staff on a daily basis in the early morning.

ORP stated that ORP, WRPS and Ecology are meeting once or twice a week to review the RCRA Permit modifications in an effort to clarify uncertainties that need to be corrected before approval. Ecology noted that efforts are under way to improve the process in support of the evaporator schedule. Ecology added that a temporary authorization will go out for public comment.

SST Integrity Assurance; M-45-91

ORP provided an update on issue No. 3 from the agreements, issues and actions list regarding the decreasing levels in some of the single-shell tanks (SSTs). There are 20 SSTs that ORP is evaluating, and six SSTs were deemed high priority. ORP stated that the evaluation has been completed on T-111, which is one of the six high priority SSTs, and the intake data indicates that the tank is currently leaking. The other five of the six high priority SST evaluations are planned for completion by the end of September 2013, and the remaining 14 of the 20 evaluations are anticipated for completion no later than January 2014.

ORP stated that the change package that was signed at the end of June 2013 realigned the work and dates to be more consistent with the current planning, which is based on funding constraints in the last two fiscal years. With the approved change package, the SST integrity milestones are back on track. ORP noted that plans are under way to begin excavation next week for the coring of the sidewall of A-106. ORP added that it is on track to complete milestone M-045-91E to submit the SST dome deflection surveys by the end of September 2013. ORP noted that at the request of Ecology, a briefing on corrosion in double-shell tanks was provided on May 30, 2013, and the presentation will be entered into the AR.

In Tank Characterization and Summary

ORP reported that one of the ongoing sampling efforts is supporting the leak detection pit sampling out of AY-102. ORP noted an error in today's handout for tank sampling planned activities in C-107. The sampling is currently scheduled for January 2014. ORP stated that the new core platform in the 200 West Area is undergoing operational acceptance testing, and times will be scheduled for site visits.

Tank Operations Contract (TOC) Overview

ORP noted that the schedule performance index (SPI) earned value of 0.82 is through the end of June 2013, so there is a two-month lag in reporting. The negative SPI is due to the sequestration that occurred earlier this year and the bump and roll of craft during the summer months, which is when the majority of efforts onsite are conducted. ORP noted that the unfavorable schedule variance under base operations was due to sequestration and the delay in receipt of reprogramming funds. Under base operations, Ecology asked which DST was the subject of the

jumper installation delay. ORP noted that there has been an ongoing issue with the jumper measurements not aligning. A laser tool is now being used to refine the measurements, with the goal to avoid refabricating the jumpers. ORP took an action to provide which DST was in reference to the jumper installation delay, and information on the laser tool will be included.

ORP noted a correction to today's handout under waste feed delivery (WFD) that the unfavorable schedule variance was due to issues identified with DST AY-102, and not AY-101. Ecology referred to the favorable cost variance associated with the supplemental treatment projects under WFD and asked for more detail. ORP took an action to provide Ecology with more information on the level of detail and maturity for the supplemental treatment projects.

Single-Shell Tank Corrective Action; Milestone M-45, -50, -60

M-045-22-T01 - ORP reported that four of the eight pushes have been completed in TX Farm so far in FY13.

M-045-22-T02 - ORP stated that the field work has been completed with the surface geophysical exploration (SGE) characterization in U Farm.

M-045-22-T03 - ORP stated that four of the six wells have been completed in support of the SX Farm soil desiccation, which is intended to demonstrate whether Tc-99 can be removed from the vadose zone. The desiccation work is planned for FY14.

M-045-61/62 - ORP noted that these two milestones are to be missed and are addressed in the issues section of the monthly summary report. ORP stated that it is continuing to have discussions with Ecology about whether it makes sense to do the corrective measures study (CMS) work report after the permit submittal for the C Farm Waste Management Area C (WMA-C). ORP noted that it is obligated to provide Ecology a draft change package, and then the discussions will resume.

M-45-00 Series:

SST Retrieval and Closure Program TPA - ORP stated that the WMA-C Performance Assessment (PA) has been funded. The PA work is starting back up, and the background milestone work has been done. Ecology will be hosting a meeting for all the parties on October 28, 2013 to discuss the PA. Ecology asked if EPA could provide support with the PA. ORP stated that authorization has been granted for an interagency agreement with EPA, and support will be provided. Ecology and ORP expressed appreciation to EPA for the support. EPA asked what topics will be covered on October 28. ORP responded that there will be a summary of the accomplishments from the past ten working sessions and how the modeling is going to proceed.

Tank Waste Retrieval Work Plan (TWRWP) Status - ORP noted that Ecology approved the C-111 TWRWP (RPP-37739) for the second and third retrieval technologies.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria - ORP stated that there was

no change in status.

Tank Retrievals with Individual Milestones - ORP stated there was no change in status.

SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B Series:

D-00B-01 - ORP noted that the status given for this milestone is ongoing, but referred to the issue section in today's handout that states the Department of Justice (DOJ) notified the State of Washington and the State of Oregon that there is a serious risk to meeting milestone D-00B-01 for tanks C-102 and C-105. ORP stated that the risk is associated with retrieving the tanks to DSTs AN-101 and AN-106 and the concern with deep sludge gas release. ORP added that the attorneys are in discussion, and any further discussion or questions are to be directed to the attorneys.

D-00B-01A - ORP noted that three tank waste retrieval certifications have been completed for C-104, C-108 and C-109. The first retrieval data report will be submitted in the next six months.

Significant Past Accomplishments - ORP stated that retrieval is under way in tanks C-101 and C-110, and that four shifts will be operating in C-101 starting next week. C-110 will be operating on a day shift. Construction is ongoing in C-105 to put the mobile arm retrieval system (MARS) back in.

Significant Planned Activities in the Next 6 Months - ORP stated that the C-107 replacement slurry pump for the MARS sluicing should be in place by the end of September or early October 2013. Retrieval in C-107 is anticipated to start back up in the December 2013 time frame. Retrieval in C-112 will be started back up when the enhanced reach sluicer is replaced.

TWRWP Status - ORP noted that the TWRWP status is the same status given in the TPA summary report.

Ecology initiated a discussion regarding integration between ORP and DOE-RL, specifically citing the timing for the Integrated Disposal Facility (IDF) and its PA. DOE-RL responded that a meeting is scheduled September 18, 2013 with the groundwater deep vadose zone executive council, and the topic of integrated assessment strategy for the Hanford Site is on the agenda for discussion. DOE-RL added that part of the strategy includes the ERDF PA that is under way, the IDF PA that needs to be started immediately, and the Low Level Burial Grounds (LLBG) PA that has been planned. DOE-RL stated that it is looking at conducting a composite analysis to assess risk on the Hanford Site starting in FY14, noting that there is a process and activities in place for conducting a composite analysis. DOE-RL indicated that the IDF PA is at the top of the priority list, and the intent is to obtain funding for the IDF PA.

Ecology asked if DOE-RL would provide periodic briefings. DOE-RL responded that following the September 18 meeting, and with approval by the DOJ, briefings to Ecology on the strategy could be provided. Ecology inquired about the priority for the SST WMA-C PA. DOE-RL responded that the WMA-C PA is part of the integrated strategy discussion, but more discussion

is needed with tank farms to get all of the pieces in place to ensure accuracy before sharing the information. DOE-RL noted that it is not tracking the WMA-C PA, which is ORP's responsibility, and it is not part of the overall integrated plan. Ecology asked for clarification that the same group is running the IDF and WMA-C PA. ORP responded that the same group is conducting the modeling.

DOE-RL stated that one of the actions identified from discussions on the assessment strategy is to establish a configuration control team. The purpose of the control team will be to improve the process by looking at timing, schedule and ensuring that the right effort is being applied. Ecology asked if the control team will be working with the project staff at tank farms and the waste treatment plant (WTP). DOE-RL responded that a DOE-RL staff is embedded with ORP for the IDF PA, and a CH2M Hill staff will be embedded as well.

Ecology stated that the second WMA retrievals will be starting for A/AX Farm, and a PA will be needed at some point. Ecology added that the PA should be available at the beginning of retrieval so that retrieval decisions can be made. Ecology noted that the A/AX PA wasn't mentioned, and suggested that the executive council consider it as part of the integration.

WTP Overall TPA and CD Summary and Milestone Status; M-62-01; M-62-49; D-00A-01, -06, -17

Waste Treatment and Immobilization Plant (WTP) Project

ORP updated the three open WTP actions as follows: Action No. WTP-13-04-03, an update on the thermal catalytic oxidizer (TCO) will be provided today; Action No. WTP-13-04-01, a briefing on the Reliability Validation Process (RVP) will be scheduled; Action No. WTP-13-01-01, a briefing on the LAB cathodic protection issue will be scheduled. ORP stated that all three actions remain open.

ORP reported that the number of full-time equivalents (FTE) have remained fairly constant for the last four to five months. A slow ramp-up of craft and non-manual workers in the Low Activity Waste (LAW) facility will be starting next week and continue through December 2013, assuming that FY14 remains stable. A second shift for some limited activities will be initiated as part of the ramp-up in LAW.

ORP stated that overall there are no major changes in terms of strategy. LAW, Balance of Facilities (BOF) and LAB continue to work to the over-target baseline, and Pretreatment (PT) and High Level Waste (HLW) continue to work to the two-year work plan. The primary focus in PT continues to be technical issue resolution, with little to no construction or engineering production activities. The near-term focus in HLW continues to be closure of technical issues. There is some controlled construction activity that has been authorized in HLW with rebar, concrete, and some piping.

ORP noted that the cost and schedule variances are mainly due to the delay in receipt of the reprogramming funds and the carryover from the re-baseline. Ecology referred to the large scope

of technical issues and the funding issues, and asked about the status of funding for resolution of technical issues. ORP responded that the funding for FY14 is unknown. ORP added that if the budget goes to a continuing resolution (CR), the funding will be set at FY12, which puts excess funding in PT and HLW, and those facilities will not be challenged by funding. ORP stated that the way the control points are set for LAW, BOF and LAB (LBL) poses more of a concern for FY14. Ecology asked if there is a CR for FY14, what would happen with any carryover funding. ORP responded that any carryover would still be tied to the areas and control points it was programmed with, and a switch in programs cannot be made. ORP noted that a certain amount has to be carried over to maintain flexibility with procurement.

Significant Past Accomplishments - ORP stated that a path forward for resolution of three technical nuclear safety issues was agreed to (mixing, criticality and hydrogen accumulation), and that these issues affect PT rather than HLW.

Significant Planned Actions in the Next Six Months - ORP noted that the repairs to the RLD vessels in LAB are on schedule for completion by the end of December 2013. Ecology asked if the work being done by the technical completion teams is rolled into the significant planned actions or if it is a separate initiative. ORP responded that the work is integrated with the planned actions. ORP cited the particle characteristic report as a direct activity of the design completion teams. Ecology noted that there are four or five separate studies or plans that are currently being considered, and a description of the study and a schedule are to be done by December 2013. Ecology expressed concern whether sufficient periodic information is being rolled into the higher level issues, and suggested closer involvement with the design completion teams in an effort to be better informed. ORP responded that there is no gap between the design completion teams' work and the project, and the design completion teams are fully integrated with the project cost, scope and schedule activities.

WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19

ORP noted that in the monthly summary report, the evaluation of potential impacts of ash fall is the only activity that is not being done under the design completion teams. The evaluation is being done due to a change in criteria for ash fall, which falls under a design basis accident scenario. Ecology asked if any initial work has been done to assess the potential impact on design changes. ORP responded that potential impact to design changes is part of the evaluation. ORP noted that there are site wide criteria for ash fall that all the facilities are designed to, and a required periodic update was done and the criteria were increased. ORP stated that the two aspects for ash fall are the structural design load and the intake ventilation systems that are safety class. ORP stated that it has calculation work to defend the design load, and believes that the new criteria will not drive any design changes.

ORP stated that there will need to be some design changes in PT for the safety class intake ventilation systems, and the extent of design changes is still being evaluated. Ecology asked if the ash fall criteria will affect the three major facilities. ORP responded that PT is the facility that primarily will be affected, due to the hydrogen mixing ventilation systems that need to stay operational. ORP added that LAW will not be affected very much since there wouldn't be any

ongoing intake during the ash fall scenario.

Significant Planned Actions in the Next Six Months - Ecology asked what mechanism is in place to ensure that the failure mode, effects and criticality analysis (FMECA) activities are done within the appropriate constraints. ORP responded that the FMECA will be done consistent with the procedures, and will be subject to revision based on the final approval of procedures. ORP noted that the lead for the design completion teams shares Ecology's concern, and every effort is being made to get the process definitions in place. Ecology cautioned about making final decisions or final design criteria considerations that are not informed by this procedure. ORP concurred with Ecology's concern, adding that the lead for the design completion teams is equally concerned about keeping that alignment.

WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21

ORP stated that the current plan for HLW is to execute six strategies, five of them dealing with technical issue resolution. The sixth strategy was kicked off this week, which entails a review of the HLW design by an external team of contractors supporting ORP. The design review will be led by ORP in an effort to ensure that the existing design of HLW and its systems will function as intended and efficiently as intended, with the potential to make design changes. ORP noted that the RLD-8 vessels in HLW have already been identified for design changes. ORP stated that the goal is to complete the field work for the design review by the end of September 2013, and complete the report by the end of December 2013. The design review report will provide support to ORP in evaluating the status of technical issues, performance issues and current design. That evaluation will form the basis to authorize an expanded scope for Bechtel to resume construction and engineering in HLW. ORP noted that Ecology was present for an in-brief on the design review with ORP and the external contractors present. Ecology stated that ORP had made a commitment to involve Ecology in the weekly status meetings for all of the current activities during the in-brief. ORP stated that it will ensure Ecology is included in the weekly status.

ORP noted that during the in-brief of the design review that Ecology asked how ORP is integrating all of the activities to ensure they are being tracked. ORP stated that integrating and tracking the activities are functions of the design completion core team, and it will be making evaluations and recommendations to management. Ecology noted its concern that there may be decisions made without being informed by all of the issues and information that are being looked at by the design completion teams and the independent design review. ORP acknowledged Ecology's concern, reiterating that the function of the design completion core team will be to integrate all the information. Ecology noted that technical issue resolution for HLW is scheduled for the December 2013 time frame, and the timing will be tight with the design review report coming in about the same time. Ecology added that it will be critical to ensure all of the decisions are informed before activities start moving forward. ORP stated that the technical issue resolution and the design review activities are for HLW only, and not PT. ORP added that the information coming out in the December 2013 time frame will be the plans and path forward for technical issue resolution, and not the actual solution to the technical issues. Ecology concurred with ORP's statement.

ORP stated that the ability to allow a certain level of construction and engineering to move forward in HLW is a different question and is based on funding and other scenarios (nuclear safety alignment, technical issues, design considerations, quality and performance issues).

WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09

ORP provided an update on the TCO. The TCO vendor went bankrupt, and the material, equipment and intellectual property were retrieved. A contract has been established with a new TCO vendor, and it is the same vendor that is fabricating the TCO for HLW. ORP stated that the tentative schedule for delivery of the TCO is the December 2013 time frame. Bechtel and the vendor are still reviewing the designs and physical material that were retrieved, and a final schedule for delivery of the TCO is expected in September 2013.

Ecology referred to the notification of serious risk to meeting milestone D-00A-07 for LAW construction substantially complete by 12/31/14, and asked if the TCO vendor issue is a contributor to the notification of serious risk. ORP responded that the TCO vendor bankruptcy occurred after the letter notification. ORP added that the TCO is considered a risk, but not a primary risk, unless the schedule is delayed for completion of the TCO.

ORP noted that LAW had significant float in the schedule, but with the reprogramming delay, most of the float was lost. An effort will be made to maintain and try to regain some of the float with the ramp-up of craft over the next three months and adding a second shift. ORP noted that the delay also caused a slow-down on the vendors' production floor.

WTP Balance of Facilities (BOF); D-00A-12

ORP stated that good progress is being made in BOF, and there are no major issues at this time. Ecology initiated a discussion regarding the Tri-City Development Council (TRIDEC) proposal for the potential use of a small modular reactor to provide power for the WTP. Ecology asked if there would be a potential design or safety basis change to accommodate the proposal. ORP responded that the WTP has a substation for receipt of power, and how the power gets to the substation is fairly immaterial to the design. DOE-RL stated that there is a natural gas initiative that DOE-RL and ORP are coordinating on as an alternative power source. ORP stated that there is nothing in the project line item scope to make any changes or to fund an alternative power source. ORP stated that it has directed Bechtel to support DOE-RL with the EIS associated with the natural gas vendor.

WTP Analytical Laboratory (LAB); D-00A-05

ORP stated that the focal point in LAB is the weld repairs to the RLD vessels, which is still on schedule for completion by the end of December 2013. Ecology noted that if the weld repairs are minor enough, pressure testing and certification may only be required for RLD vessel 164, which would save a significant amount of time. ORP stated that at least one vessel will have to be pressure tested, and it will depend on the nature of the weld repairs if all three will have to be tested.



Agenda
August 15, 2013
Office of River Protection Quarterly Milestone Review Meeting
 Ecology Offices, Conference Room 3A/B
Chairperson: Jane Hedges

Topic	Leads	Time
Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon	8:30
System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	8:35
Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	8:40
Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	8:45
242-A Evaporator Status	Ron Koll / Jeff Lyon	8:55
SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:00
In Tank Characterization and Summary	Billie Mauss / Michael Barnes	9:05
Tank Operations Contract (TOC) Overview	Kathy Higgins/ Jeff Lyon	9:10
Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon	9:20
Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tanks with Individual Milestones SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Kathy Higgins / Jeff Lyon	9:25
WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	9:40
WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Delmar Noyes / Dan McDonald	9:50
WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Delmar Noyes / Dan McDonald	9:55
WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Delmar Noyes / Dan McDonald	10:00
WTP Analytical Laboratory (LAB); D-00A-05		10:05
WTP Balance of Facilities (BOF); D-00A-12		10:10

Tri-Party Agreement Office of River Protection Milestone Review
August 15, 2013

<u>Name</u>	<u>Organization</u>
Terry Noland	MSA
Kathy Knox	Knox Court Reporting
ROB BIRB	MSA TPA
JANE HEDGES	Ecology
DENNIS FAULK	EPA
Steve Pfaff	ORP
JEFF LYON	Ecology
Dan McDonald	Ecology
Cheryl Whalen	Ecology
Shelley Simon	ODOE
Chris Kemp	ORP
GLYN TRENCHARD	ORP
DAN FINK	ORP
JD Dowell	RL
James Lynch	DOE-ORP
Delmar Noye	DOE-ORP

FINAL

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
August 2013



**Office of River Protection
Tri-Party Agreement Milestone Review
August 2013 (Monthly Summary Report/Project Earned Value Management System reflects
June 2013 information)**

Page	Topic	Leads
1	Administrative Items/Milestone Status	James Lynch/Dan McDonald/Jeff Lyon
2	System Plan; M-62-40	DaBrisha Smith/Jeff Lyon/Dan McDonald
3	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker/Jeff Lyon/Dan McDonald
3	Supplemental Treatment and Part B Permit Applications; M-62-00, M-62-20, M-62-30, and M-62-45	Steve Pfaff/Jeff Lyon/Dan McDonald
5	242-A Evaporator Status	Ron Koll/Jeff Lyon
5	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Jim Alzheimer
6	In Tank Characterization and Summary	Billie Mauss/Michael Barnes
8	Tank Operations Contract Overview	Kathy Higgins/Jeff Lyon
14	Single-Shell Tank Corrective Action; M-45, M-50, and M-60	Chris Kemp/Jeff Lyon
15	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series	Chris Kemp/Jeff Lyon
17	Tank Waste Retrieval Work Plan Status	Chris Kemp/Jeff Lyon
18	Tank in Tri-Party Agreement (TPA) Appendix H, Status Tank Retrievals with Individual Milestones	Chris Kemp/Jeff Lyon
CD	Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; *see the August 2013 ORP Consent Decree 08-5085-FVS Monthly Summary Report for WTP facility-specific information	Delmar Noyes/Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013				
M-045-20	Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	12/31/2012	12/06/2012	Completed
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012	11/19/2012	Completed
M-062-01Z	Submit Semi-Annual Project Compliance Report	01/31/2013	1/31/2013	Completed
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	03/31/2013	3/11/2013	Completed
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/2013	5/21/2013	Completed
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/2013	5/02/2012	Completed
M-045-56I	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2013	06/12/2013	Completed
M-062-01AA	Submit Semi-Annual TPA Project Compliance Report	07/31/2013	07/31/2013	Completed
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/2013		On Schedule
Fiscal Year 2014				
M-062-40C	Select a Minimum of Three Scenario's for the System Plan	10/31/2013		On Schedule
M-045-56J	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2014		On Schedule
M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/2014		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology	09/30/2014		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	09/30/2014		On Schedule
Fiscal Year 2015				
M-062-40D	Submit System Plan	10/31/2014		On Schedule
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014		On Schedule
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/2014		On Schedule
M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study	12/31/2014		To Be Missed
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/2015		On Schedule
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015		On Schedule
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		On Schedule
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		On Schedule
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		On Schedule
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015		On Schedule
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA C	06/30/2015		To Be Missed
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/2015		On Schedule

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015 Continued				
M-045-56K	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

System Plan

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: October 31, 2013, Status: On Schedule.

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: October 31, 2014, Status: On schedule.

M-062-45-T01, Every six years, within six months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: April 30, 2015, Status: On schedule.

Significant Past Accomplishments:

The Washington River Protection Solutions LLC (WRPS) facilitated a review of Appendix B of System Plan 6, and highlighted assumption and model updates since the last revision, with Washington State Department of Ecology and the U.S. Department of Energy (DOE), Office of River Protection (ORP) during the week of July 8th, 2013. This activity was then followed by two scenario framing sessions, for Single Shell and Double Shell tank systems, with Washington State Department of Ecology and the U.S. Department of Energy (DOE), Office of River Protection (ORP) during the week of July 15th.

Significant Planned Actions in the Next 6 Months:

ORP will meet with Ecology Program Managers to discuss the System Plan Rev.7 uncertainties.

Issues:

System Plan 7 framing sessions are on hold until further discussion with Ecology.

Acquisition of New Facilities

M-090-13, Submit CD-1 for Interim Hanford Storage Project and Tri-Party Agreement (TPA) Change Request for CD-2 to Ecology, Due: September 30, 2014, Status: On schedule. Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report Package (Critical Decision-1) for the Interim Hanford Storage Project (storage of the first two years of Hanford Site Immobilized High-Level Waste from WTP operations) and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-090-00, Acquire/modify facilities for storage of Immobilized High-Level Waste (IHLW), Due: December 31, 2019, Status: On schedule.

M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology, Due September 30, 2014, Status: On schedule. Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report package (Critical Decision-1) for the Secondary Liquid Waste Treatment Project and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the Waste Treatment and Immobilization Plant (WTP), Due: December 31, 2022, Status: On schedule.

Significant Past Accomplishments:

On November 19, 2012, Ecology and ORP signed TPA Change Control Forms M-47-12-02 and M-90-12-02 establishing M-047-07 and M-090-13, respectively. ORP letter 12-ECD-0225 notified Ecology of the completion of milestones M-047-06 and M-090-11.

Significant Planned Actions in the Next 6 Months:

None.

Issues:

None.

Supplemental Treatment and Part B Permit Applications

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies Report if a supplemental treatment technology is proposed other than a second Low-Activity Waste (LAW), Due: October 31, 2014, Status: On schedule.

M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: April 30, 2015, Status: On schedule. Negotiations are not yet underway.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: April 30, 2015, Status: On schedule.

M-062-31-T01, Complete final design and submit Resource Conservation and Recovery Act Part B permit modification request, Due: April 30, 2016, Status: On schedule.

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2018, Status: On schedule.

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2021, Status: On schedule.

M-062-45XX, No later than December 31, 2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, Due: December 31, 2021, Status: On schedule.

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: December 30, 2022, Status: On schedule.

M-062-21, Annually submit data that demonstrates operation of the WTP, Due: February 28, 2023, Status: On schedule.

M-062-00, Complete Pretreatment Processing and Vitrification of High-Level Waste and Low-Activity Waste Tank Wastes, Due: December 31, 2047, Status: On schedule.

Significant Past Accomplishments:

None.

Significant Planned Actions in the Next 6 Months:

None.

Issues:

At the January 2013 TPA Project Manager's Monthly (PMM) meeting, ORP stated DOE and Ecology are currently in discussions to move out the due dates for M-062-40ZZ and M-062-45ZZ (current due dates October 31, 2014 and April 30, 2015, respectively).

ORP provided a draft change package for these milestones on February 12, 2013. Ecology provided comments on May 9, 2013. At the July 23, 2013 PMM, ORP stated that meetings were to be scheduled with Ecology management to discuss a path forward.

242-A Evaporator Status

(previously reported under Milestone M-48, which has been closed out)

242-A Campaign Strategy:

The 242-A campaign strategy for Fiscal Year (FY) 2010 through FY2015 depicted in the following table has been updated based on ORP-11242, *River Protection Project Plan* and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010.
FY10	10-02	AW-106	AW-106	Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	NA	NA	NA	No campaign conducted in FY12 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY13	NA	NA	NA	No campaigns to be conducted in FY13 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY14	14-01	AP-107	AP-107	Estimated start late November 2013. Requires two passes to achieve waste volume reduction.
FY14	14-02	AW-106	AP-107	Estimated start late February 2014.
FY14	14-03	AZ-102	AP-103	Estimated start June 2014.
FY15	15-01	AW-106	AP-103	Estimated start October 2014.
FY15	15-02	AZ-102	AP-103	Estimated start March 2015.

FY = fiscal year.

NA = not applicable.

SST Integrity Assurance

M-045-91E, Provide to Ecology a compilation of the single-shell tank (SST) farms dome deflection surveys every two years, beginning September 30, 2013, Due: September 30, 2013, Status: On schedule.

M-045-91G-T03, Provide to Ecology the structural analyses of record final documentation for SSTs for 1,000,000 gallon tanks (A, AX, and SX Farms), Due: October 31, 2014, Status: On schedule.

M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Revision 0, Due: December 26, 2014, Status: On schedule.

M-045-91G-T04, Provide to Ecology the structural analyses of record final documentation for SSTs for 55,000 gallon tanks (B, C, T, and U Farms), Due: January 30, 2015, Status: On schedule.

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing and analysis, performed on the concrete core obtained from Tank A- 106 or an alternate tank, Due: January 31, 2015, Status: On schedule.

M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced leak detection, monitoring, and mitigation, Due: March 31, 2015, Status: On schedule.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through M-045-91F-T04, Due: June 30, 2015 Status: On schedule.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record for SSTs, Due: July 28, 2015, Status: On schedule.

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series of milestones to date, Due: July 31, 2015, Status: On schedule.

M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (IQRPE) certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: September 30, 2018, Status: On schedule.

Significant Past Accomplishments:

Change Control Form M-45-13-01 was signed by Ecology on June 27, 2013, approving changes to the SST Integrity Program. Issued *Hanford Single-Shell Tank Leak Causes and Locations - 241-B Farm*.

Significant Planned Actions in the Next 6 Months:

Continue work for delivery of SST dome deflection surveys (M-045-91E).

Issues:

None.

In Tank Characterization and Summary

For the period from July 1 – July 31, 2013:

Accomplishments:

- Completed RPP-PLAN-50310, Rev. 2, *Tank 241-AN-106 Grab Sampling and Analysis Plan in Support of Corrosion Mitigation during Tank 241-C-107 Retrieval.*
- Completed RPP-PLAN-55317, Rev. 0, *Sampling and Analysis Plan for Tank AZ-301 Liquid.*
- Completed RPP-RPT-45764, Rev. 02, *Derivation of Best-Basis Inventory for Tank 241-AN-102 as of April 9, 2013.*
- Completed RPP-RPT-46686, Rev. 4, *Derivation of Best-Basis Inventory for Tank 241-AW-106 as of April 1, 2013.*
- Completed RPP-RPT-43979, Rev. 12, *Derivation of Best-Basis Inventory for Tank 241-AY-101 as of April 1, 2013*
- Completed RPP-RPT-44643, Rev. 4, *Derivation of Best-Basis Inventory for Tank 241-SY-102 as of April 1, 2013*
- Completed RPP-RPT-55192, Rev. 0, *Derivation of Best-Basis Inventory for Tank 241-AW-103 as of April 1, 2013*
- Completed RPP-RPT-43992, Rev. 8, *Derivation of Best-Basis Inventory for Tank 241-AN-106 as of April 1, 2013*
- Completed grab sampling of condensate tank AZ-301 on July 29, 2013 per RPP-PLAN-55317, Rev. 0, *Sampling and Analysis Plan for Tank AZ-301 Liquid.*
- Completed grab sampling of the 241-AY-102A annulus leak detection pit on July 24, 2013, per RPP-PLAN-54083, *FY2013 Grab Sampling and Analysis Plan for the 241-AY-102A Tank Annulus Leak Detection Pit*, Characterization Change Notice 13-CCN-13. Three samples and one field blank were collected and delivered to the lab on 7/24/2013.

Planned Action within the next 6 Months:***Tank sampling***

- Tank 241-C-112 grab sampling during hard heel dissolution is currently scheduled for September/October 2013.
- Tank 241-C-107 Off-Riser Sampling System sampling is currently scheduled for January 2013.
- Tank 241-C-110 closure sampling using fold track operations to push samples to a clam shell sampler is scheduled for October/November 2013.
- Tank 241-AN-106 grab sampling for chemistry control is currently scheduled for September/October 2013.

Best-Basis Inventory Updates

The tanks identified for updates in FY13 Quarter 4 are still being approved by ORP. The BBI updates will be issued in September 2013.

Data Quality Objectives

- A data quality objective (DQO) on a solubility model is due to be released in August/September 2013.
- A revision to the tank farms waste compatibility program DQO is due to be released in August 2013.

Issues:

None.

TANK OPERATIONS CONTRACT OVERVIEW

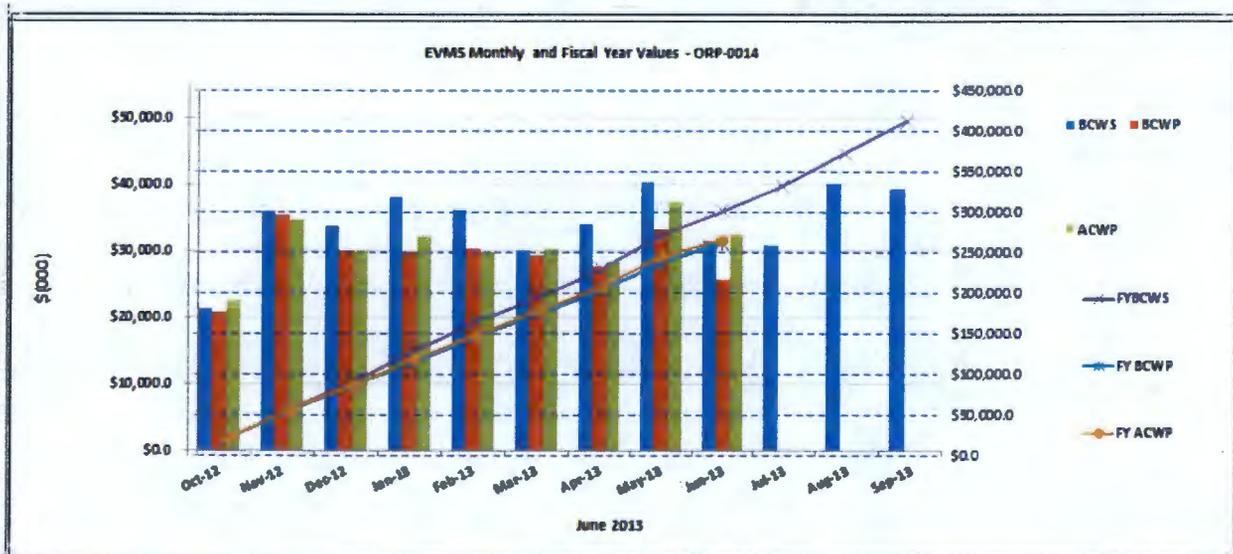
Project Performance

The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing TPA milestones.

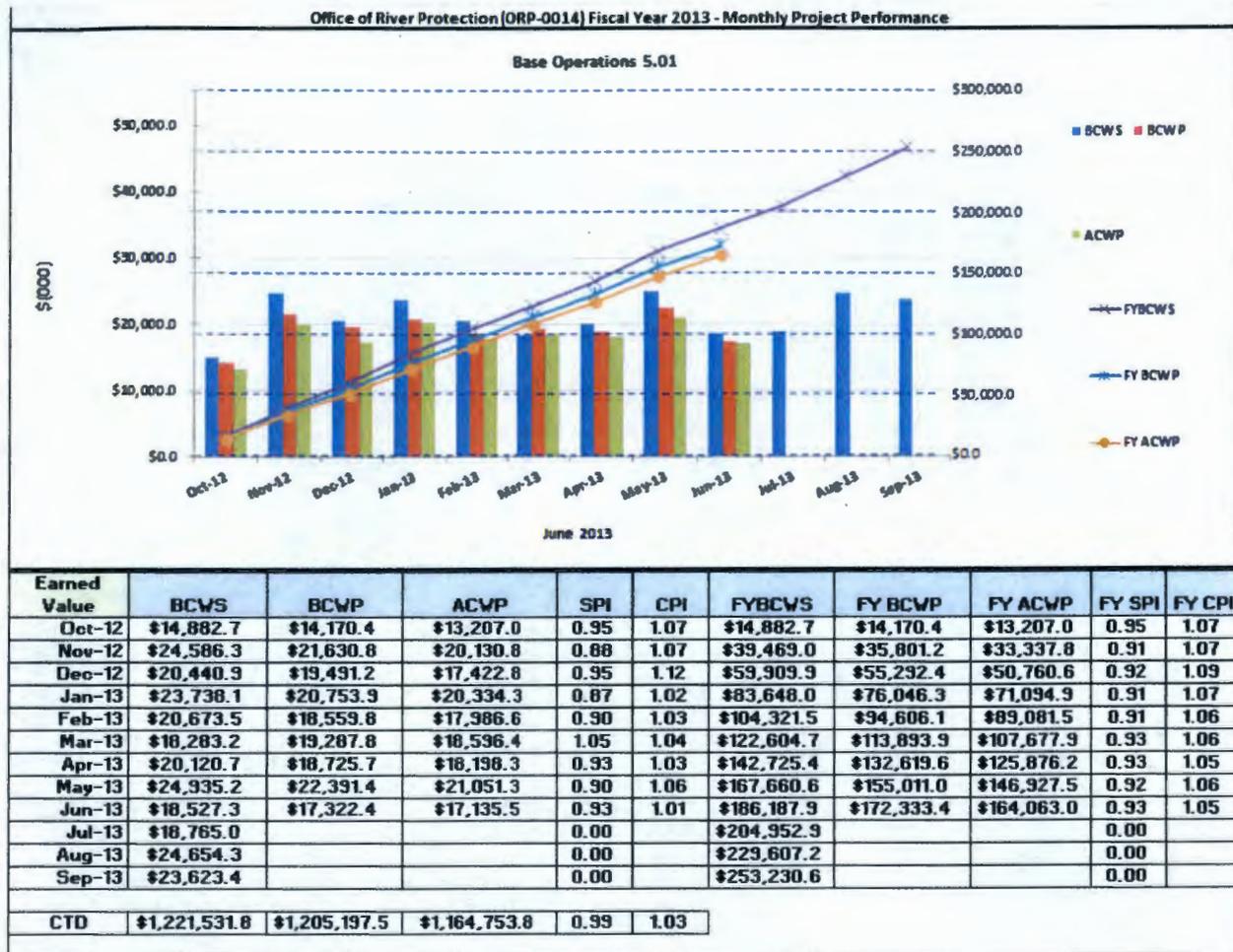
As of June 2013 WRPS worked 746,515 hours (76 days) without a lost time workday injury and (76 days) without a recordable case.

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	40,387.8	33,112.9	32,460.5	(7,274.9)	652.4	0.82	1.02			
FYTD	269,751.6	236,378.6	240,235.8	(33,373.0)	(3,857.2)	0.88	0.98	411,560.1	381,898.3	29,661.8
CTD	1,905,306.1	1,860,932.3	1,797,594.0	(44,373.8)	63,338.3	0.98	1.04	7,015,096.9	6,950,779.7	64,317.2

Red shaded cells indicates a SPI/CPI less than .90;
 Green shaded cells indicate a SPI/CPI between .90 and .99; and
 Blue shaded indicates a SPI/CPI greater than or equal to 1.0



Earned Value	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	\$21,350.5	\$20,911.7	\$22,382.9	0.98	0.93	\$21,350.5	\$20,911.7	\$22,382.9	0.98	0.93
Nov-12	\$35,910.8	\$35,319.2	\$34,775.1	0.98	1.02	\$57,261.3	\$56,230.9	\$57,158.0	0.98	0.98
Dec-12	\$33,795.4	\$30,044.9	\$29,940.1	0.89	1.00	\$91,056.7	\$86,275.8	\$87,098.1	0.95	0.99
Jan-13	\$38,179.6	\$29,766.1	\$32,202.8	0.78	0.92	\$129,236.3	\$116,041.9	\$119,300.9	0.90	0.97
Feb-13	\$36,167.5	\$30,290.9	\$29,773.7	0.84	1.02	\$165,403.8	\$146,332.8	\$149,074.6	0.88	0.98
Mar-13	\$30,026.2	\$29,261.1	\$30,306.9	0.97	0.97	\$195,430.0	\$175,593.9	\$179,381.5	0.90	0.98
Apr-13	\$33,933.7	\$27,671.7	\$28,393.7	0.82	0.97	\$229,363.7	\$203,265.6	\$207,775.2	0.89	0.98
May-13	\$40,387.8	\$33,112.9	\$37,267.1	0.82	0.89	\$269,751.5	\$236,378.5	\$245,042.3	0.88	0.96
Jun-13	\$31,454.5	\$25,677.6	\$32,460.5	0.82	0.79	\$301,206.0	\$262,056.2	\$266,448.3	0.87	0.98
Jul-13	\$30,773.6			0.00		\$331,979.6			0.00	
Aug-13	\$39,989.2			0.00		\$371,968.8			0.00	
Sep-13	\$39,407.6			0.00		\$411,376.4			0.00	
CTD	\$1,905,306.1	\$1,860,932.3	\$1,791,594.0	0.98	1.04					

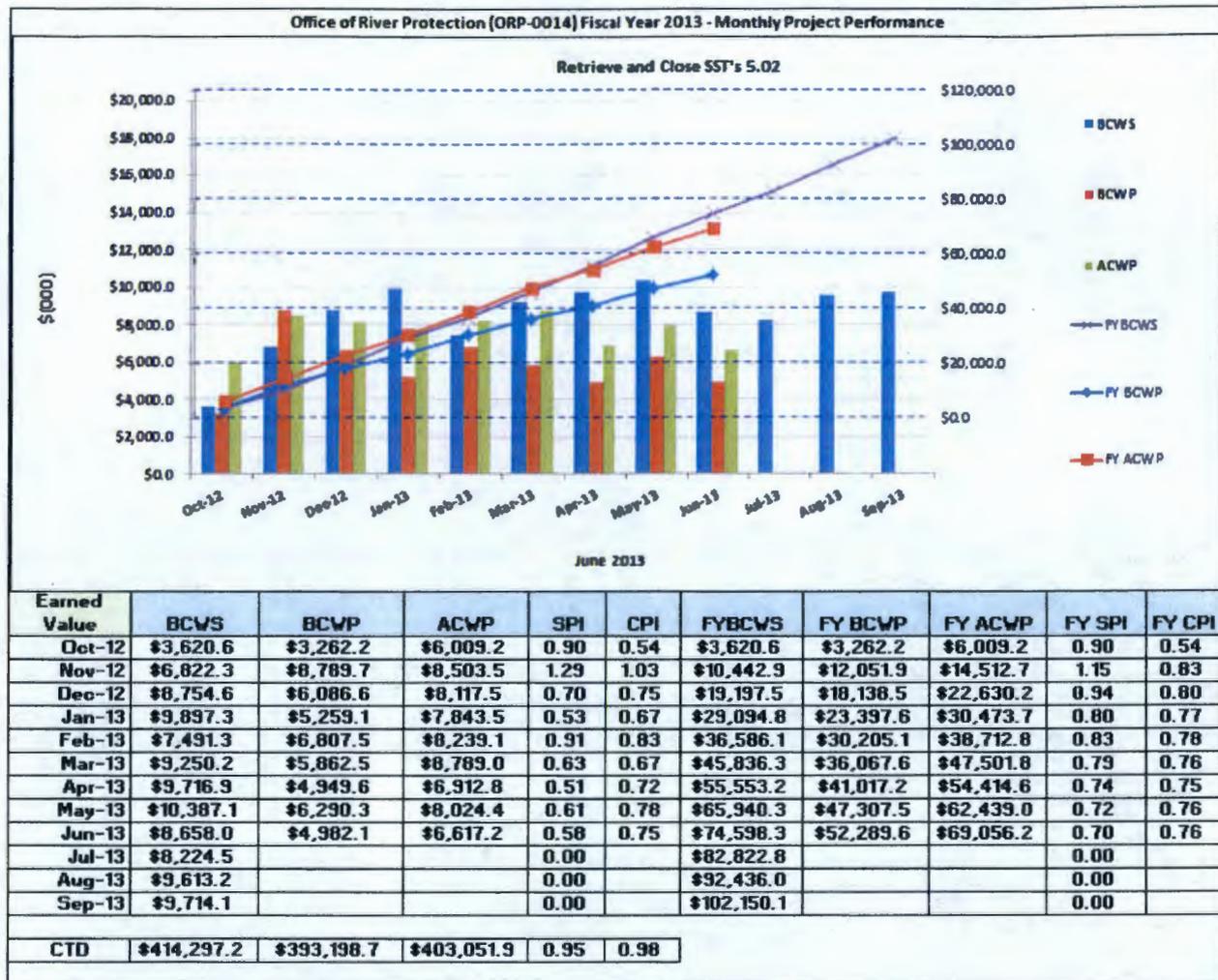


Base Operations and Tank Farm Projects

The unfavorable schedule variance of **(\$1,205K)** is due to delays in the following Tank Farm Project activities as a result of sequestration and the subcontractor work being placed on hold until reprogramming completed:

- Two month delay for the AY-102 Corrosion probe array removal
- Deferral of DST AN-103 ultrasonic testing
- SST integrity projects (sidewall coring, water hammer testing, benchmark repairs, SST Expert Panel
- DST Transfer Readiness due to jumper installation delay due to size and alignment repairs not anticipated.

The favorable cost variance of \$187k is not reportable.



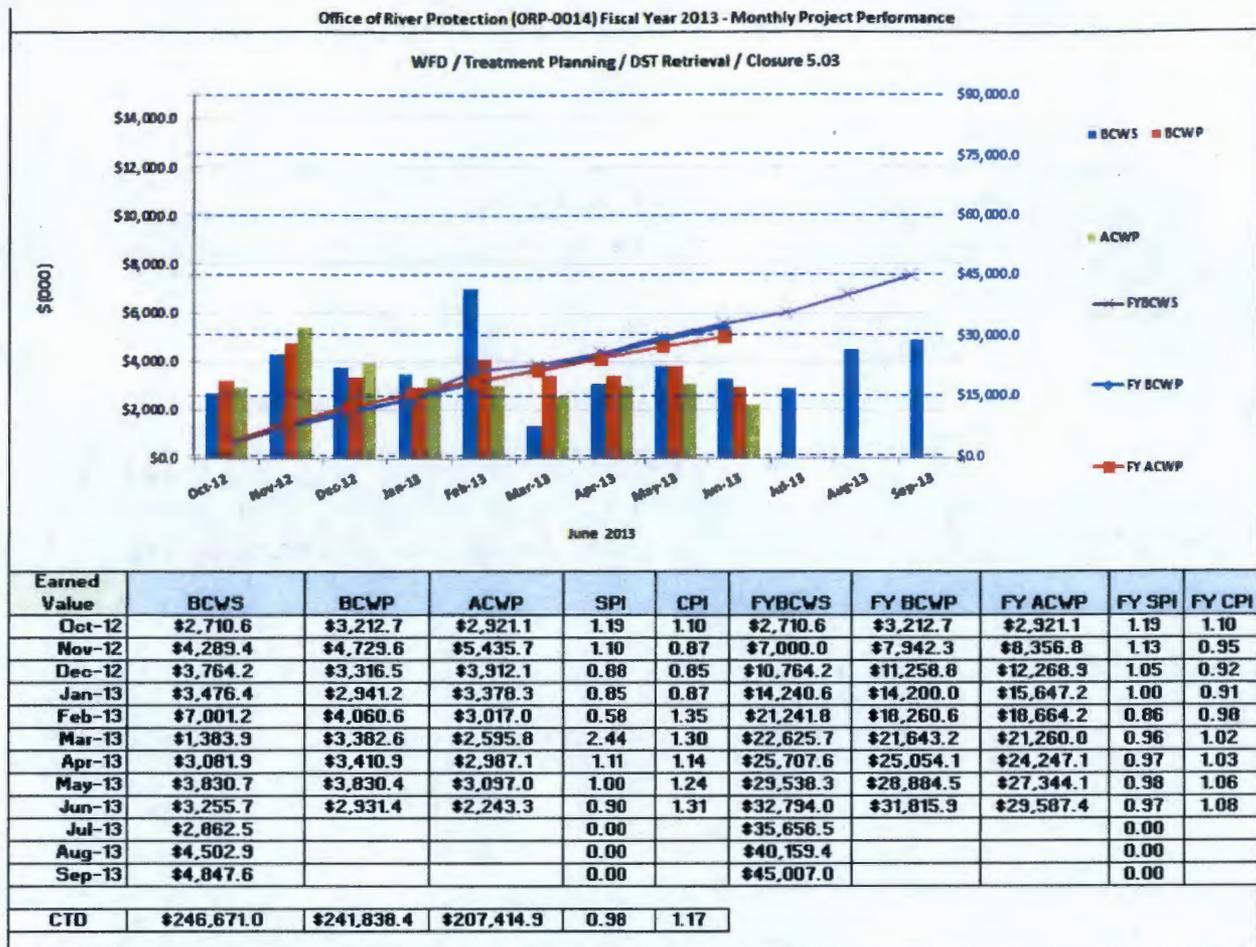
Retrieval and Close Single-Shell Tanks

The current month unfavorable schedule variance (SV) of **(\$3,676k)** is due to:

- Retrieval design delays of the hard heel retrieval system in C-111, as the retrieval strategy has changed in response to DST deep bed sludge safety basis issues and resource availability issues.
- Changes in strategy for the C-112 mechanical hard heel retrieval technology. The C-112 hard heel retrieval activities are being realigned to accelerate caustic dissolution and defer the high-pressure Extended Reach Sluicing System as a result of the deep bed sludge safety basis issue and resource availability.
- Retrieval operation delays in starting waste retrieval for C-102, as operations have been realigned to coincide with the completion of C-112 hard heel retrieval in FY 2014.
- 5-month delayed start of hard heel retrieval operations in C-110 as a result of sequestration. However, the unfavorable variance is partially offset by accelerated progress of the fabrication and preparations for system start-up of the hot water skid.
- 3-week delay to the start of fieldwork for the six Hose-in-Hose Transfer Line (HIHTLs) to be removed this year, as resources were unavailable to support shield plate and hose barn removals.

The current month unfavorable cost variance (CV) of **(\$1,635K)** is due to:

- Longer retrieval operations than planned for C-101, causing higher costs.
- Higher subcontract and labor costs needed to resolve issues with the MARS-V prior to field deployment, including resolving eductor plugging, the safety instrument system, cross-flow filter systems, temperature monitoring, and hydraulic power unit corrosion. Management oversight has increased to resolve technical issues in support of project demobilization and closeout.
- Increased radiological control and engineering resources needed to complete the contract actions associated with the C-110 retrieval system installation activities.
- Unexpected labor costs for troubleshooting the AN-106 pump leak that occurred during the C-107 hard heel retrieval.
- Unanticipated C-Farm Infrastructure DST Receiver Tank repairs for a leak in the AN-106 pump during start-up of C-107 hard heel removal operations, which required crews to perform replacement of the siphon hose, resulting in additional labor hours charged.



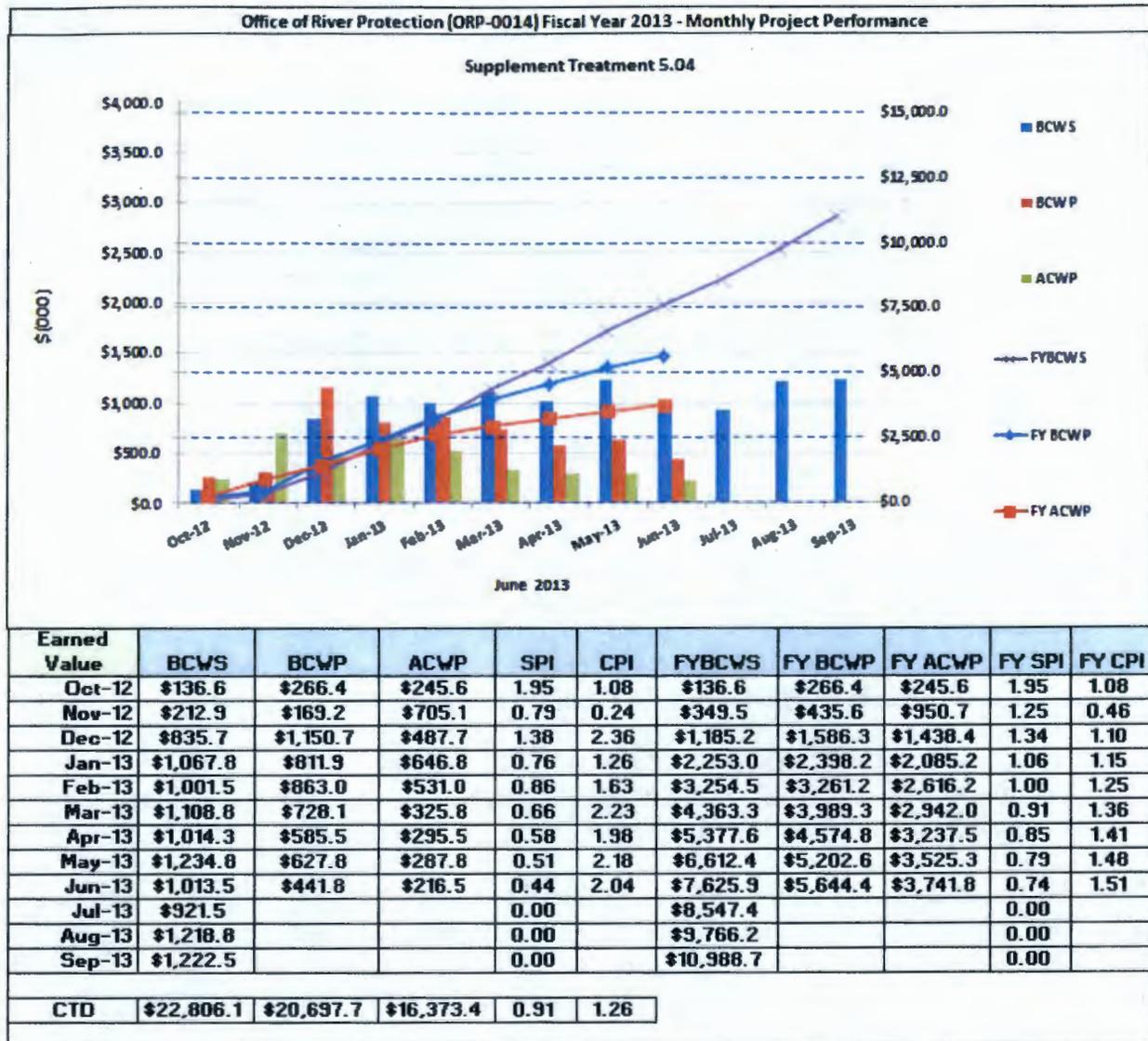
Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure

The unfavorable schedule variance of (\$324K) is due to:

- AY/AZ Ventilation Upgrade project placed on hold due to the issues identified with double-shell tank AY-101.

The favorable cost variance of \$688k is due to the following:

- RPP System Plan positive cost variance is due to efficiencies experienced from the G2 Systems software training and the Hanford Tank Waste Operations Simulator modeling improvement activities costing less than planned.
- The Supplemental Treatment projects are more mature and the level of detail required for flow sheet development is less than originally planned resulting in efficiencies.



Supplemental Treatment

The unfavorable schedule variance (**\$572k**) is due to:

- Immobilization – Maturation – The One Time Report – As a result of sequestration activities are ramped down for the remainder of the fiscal year

The favorable cost variance **\$225k** is due to:

- Immobilization – Maturation – One Time Report – Project Management is not utilizing subcontractor due to the delay/deferral of report activities.

Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: On schedule. This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if the remaining work in milestone M-045-92 should be modified. ORP submitted TPA change package M-45-12-05 adding dates for M-045-22 and its targets with the revised work plan via letter 13-TF-0014, *The U.S. Department of Energy, Office of River Protection (ORP) submittal of Revised 200 West Area Tank Farms Interim Measures Investigation Work Plan in Completion of Hanford Federal Facilities Agreement and Consent Order (HFFACO) Milestone M-045-20*. Ecology approved the TPA change package on April 1, 2013.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: On schedule.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: April 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: On schedule.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: July 31, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: On schedule.

M-045-56I, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2013, Status: Completed June 12, 2013. The annual meeting was held on June 12, 2013; meeting notes have been entered into the TPA Administrative Record.

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST Waste Management Areas (WMA) (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On schedule.

M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: December 31, 2014, Status: To be missed. Please see issues.

M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA C, Due: June 30, 2015, Status: To be missed. Please see issues.

M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: September 30, 2017, Status: On schedule. This milestone date has been modified according to M-45-12-04 and the decision to move forward with construction/design of additional barriers dependent on discussions per M-045-22.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: On schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: On schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

Significant Past Accomplishments:

- Automated data collection systems for T-Farm and TY Farm interim barrier monitoring continue gathering data.
- The summary report on T and TY barrier monitoring performed in 2012 was released.
- The test site was selected for the pore water extraction test south of SX farm under the M-045-20 work plan, and direct-push work to place the extraction and monitoring wells is underway.
- Direct push of four boreholes near the C-200 tanks has been completed and deep electrodes placed for resistivity evaluations. Collection of resistivity data is underway.
- Data collection in U Farm for electrical resistivity characterization was completed. Data analysis and reporting will be completed in FY2014.
- Direct-push field work in TX Farm was initiated under the M-045-20 work plan and M-045-21 sampling and analysis plan.
- Annual M-045-56 meeting on interim measures was held and meeting minutes generated.

Significant Planned Actions in the Next 6 Months:

- Complete direct-push field work in TX Farm under the M-045-20 work plan.
- Complete analysis and reporting of the electrical resistivity data collected in U Farm under the M-045-20 work plan.
- Complete electrical resistivity field work near the C-200 tanks per the WMA C Phase 2 Resource Conservation and Recovery Act Field Investigation/Corrective Measures Study Work Plan.
- Complete the field set up and equipment design for the SX farm pore water extraction proof of principle test under the M-045-20 work plan.

SST Retrieval and Closure Program

M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST, Due: September 30, 2015, Status: To be missed. Please see issues.

M-045-84, Complete negotiations of TPA interim milestones for closure of second WMA, Due: January 31, 2017, Status: On schedule.

M-045-83, Complete the closure of WMA C, Due: June 30, 2019, Status: On schedule.

M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: January 31, 2022, Status: On schedule.

M-045-70, Complete waste retrieval from all remaining SSTs, Due: December 31, 2040, Status: On schedule.

M-045-00, Complete Closure of all Single-Shell Tank Farms, Due: January 31, 2043, Status: On schedule.

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: To be determined (12 months after retrieval certification), Status: On schedule. The Retrieval Data Report for C-104 is due March 21, 2014. The Retrieval Data Report for C-108 is due May 1, 2014. The Retrieval Data Report for C-109 is due June 4, 2014.

Significant Past Accomplishments:

- Completed post-retrieval sampling, analyzing, and reporting of results for tank C-108 in support of the M-045-86 retrieval data report.
- Completed post-retrieval spectral gamma logging of drywells near tank C-108 in support of the M-045-86 retrieval data report.
- Completed post-retrieval sampling analysis and reporting of results for tank C-104 in support of the M-045-86 retrieval data report.
- Completed post-retrieval sampling of tank C-109 in support of the M-045-86 retrieval data report.
- See discussions above and related discussions in Consent Decree report.
- Initiate numeric modeling for the WMA C performance assessment.

Significant Planned Activities in the Next 6 Months:

- Develop a retrieval data report for tank C-104
- Continue analysis of the post-retrieval samples from tank C-109
- Issue a retrieval data report for C-108
- See discussions above and related discussions in Consent Decree report.

Issues:

The WMA-C performance assessment (PA) was not funded at the beginning of FY2013. ORP has reported previously that the WMA-C PA would need to be funded by March 31, 2013, in order to maintain the milestone schedule. Although funding of the WMA-C PA has been identified to begin work in FY2013, TPA milestones M-045-61, M-045-62, and M-045-82 are still to be missed.

ORP began discussions with Ecology about a TPA project manager-level agreement to determine an alternative path forward for milestones M-045-61 and M-045-62 on March 14, 2013. ORP and Ecology have continued to meet (most recently on June 20, 2013) to develop a path forward for these milestones.

ORP and Ecology will meet separately to discuss TPA milestone M-045-82 for the Tier 1, 2, and 3 WMA-C SST closure submittal. ORP and Ecology will discuss impacts to this work scope and the potential for a Tier 1 submittal.

Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-V-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-S -High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 2	Complete	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	In Process	Modified Sluicing	High pressure water with ERSS	Chemical Dissolution with ERSS
C-112	RPP-22393, Rev. 6A	In Process	Modified Sluicing	Chemical Dissolution	-

ERSS = Extended Reach Sluicer System.

MARS = Mobile Arm Retrieval System.

TWRWP = Tank Waste Retrieval Work Plan.

Significant Accomplishments:

ORP and Ecology approved Modification Notice 2013-05 for TWRWP RPP-22393 allowing the high resolution resistivity system to be used for C-102 leak detection. Prior to the modification, weekly moisture logging was required when not in active retrieval because of high interstitial liquid levels. The change now allows the Tank Operations Contractor to perform 30 days of high resolution resistivity monitoring once per quarter rather than weekly moisture logging.

Significant Planned Activities in the Next 6 Months:

Work with Ecology on an update to the Tank Waste Retrieval Work Plan RPP-37739 for C-111 to include a second and third retrieval technology.

Issues:

None.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria**Tank 241-C-106****Significant Past Accomplishments:**

None.

Significant Planned Activities in the Next 6 Months:

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A request for additional information was received from the NRC in February 2009.

Issues:

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones**Tank 241-A-103**

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: September 30, 2022, Status: On schedule. Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to September 30, 2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: September 30, 2022, Status: On schedule. Updated with tank A-103 and due date of September 30, 2022, per M-45-11-04 change package.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: September 30, 2022, Status: On schedule. Updated with A-103 tank and due date of September 30, 2022, per M-45-11-04 change package.

Significant Past Accomplishments:

Change package M-45-11-04 was signed by ORP and Ecology on April 19, 2011.

Significant Planned Activities in the Next 6 Months:

None.

Issues:

None.

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure

Demonstration Project, Due: To be determined (in accordance with M-045-84 or M-045-85), Status: On schedule.

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: To be determined, Status: On schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

Significant Planned Activities in the Next 6 Months:

None.

Issues:

None.

FINAL

**Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
August 2013**

Office of River Protection

Consent Decree 08-5085-FVS
Monthly Summary Report

August 2013 (Monthly Summary Report/Project Earned Value Management System reflects June 2013 information)

Page	Topic	Leads
1	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
2	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
3	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
4	SST Retrieval Monthly and Fiscal Year Earned Value Management System Data	Kathy Higgins / Jeff Lyon
6	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
9	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
12	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
14	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
16	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
18	Analytical Laboratory (LAB) – D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012	10/31/2012	Completed
D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012	11/20/2012	Completed
D-00C-02Z	Submit to Ecology & State of Oregon Monthly Summary Report	12/31/2012	12/26/2012	Completed
D-00A-05	LAB Construction Substantially Complete	12/31/2012	12/31/2012	Completed
D-00A-12	Steam Plant Construction Complete	12/31/2012	12/31/2012	Completed
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012	10/24/2012	Completed
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013	01/31/2013	Completed
D-00C-02AA	Submit to Ecology & State of Oregon Monthly Summary Report	01/31/2013	01/24/2013	Completed
D-00C-02AB	Submit to Ecology & State of Oregon Monthly Summary Report	02/28/2013	02/25/2013	Completed
D-00C-02AC	Submit to Ecology & State of Oregon Monthly Summary Report	03/31/2013	03/29/2013	Completed
D-00C-02AD	Submit to Ecology & State of Oregon Monthly Summary Report	04/30/2013	04/25/2013	Completed
D-00C-02AE	Submit to Ecology & State of Oregon Monthly Summary Report	05/31/2013	05/21/2013	Completed
D-00C-02AF	Submit to Ecology & State of Oregon Monthly Summary Report	06/30/2013	06/26/2013	Completed
D-00C-02AG	Submit to Ecology & State of Oregon Monthly Summary Report	07/31/2013	07/24/2013	Completed
D-00C-02AH	Submit to Ecology & State of Oregon Monthly Summary Report	08/31/2013		On-going
**D-00C-02AI	Submit to Ecology & State of Oregon Monthly Summary Report	09/30/2013		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013	07/31/2013	Completed
D-006-00-A1	Provide State of Oregon Notice of Meetings	TBD		On-going
Fiscal Year 2014				
D-006-00-A	Meet Approximately Every 3 Years to Review Requirements of CD	TBD		On-going
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		On-going
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/22/2011	Completed
Fiscal Year 2015				
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014		On-going
D-00A-19	Complete EL. 98' Concrete Floor Slab Placements in PT Facility	12/31/2014		On-going

Single-Shell Tank Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining Single-shell tanks (SST) in WMA-C, Due: September 30, 2014, Status: On-going.* Please see issues below.

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: To be determined (TBD), Pursuant to Section IV-B-5 of the Consent Decree (CD), U.S. Department of Energy (DOE) must submit to the Washington State of Ecology (Ecology) a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix C, Part 1, of the CD. Completed for SST C-104 on March 21, 2013, via DOE Office of River Protection (ORP) letter 13-TF-0018. Completed for SST C-108 on May 1, 2013, via ORP letter 13-TF-0025. Completed for SST C-109 on June 4, 2013, via ORP letter 13-TF-0037.

D-00B-02, Advise Ecology of the nine SSTs from which Waste Will Be Retrieved by 2022, Due: September 30, 2014, Status: Completed on August 24, 2011.

D-00B-03, Initiate Startup of Retrieval in At Least five of nine SSTs in D-00B-02, Due: December 31, 2017, Status: On-going

D-00B-04, Complete Retrieval of Tank Wastes from the nine SSTs in D-00B-02, Due: September 30, 2022, Status: On-going

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

- Operated the C-101 retrieval system, initiated high pressure water retrieval activities
- Completed installation of the C-105 concrete pad and backfill activities associated with the new riser
- Continued retrieval sluicing via the Mobile Arm Retrieval System (MARS-S) at C-107, currently at greater than approximately 90 percent of waste volume retrieved to AN-106 double-shell tank (DST)
- Completed Operation Acceptance Testing of the C-110 Fold Track and associated support equipment
- Continued with installation of equipment for C-112 hard heel removal

Significant Planned Activities in the Next 6 Months:

- Complete C-101 hard heel retrieval
- Complete installation of the MARS-V in C-105
- Complete replacement of the C-107 slurry pump
- Submit retrieval data report for C-108 to Ecology
- Begin start-up of hard heel retrieval in C-110 using the fold track
- Begin start-up of hard heel retrieval in C-112 using caustic dissolution

Issues:

*On June 6, 2013, DOE notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet Consent Decree Milestone B-1 for tanks C-102 and C-105.

Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing with ERSS	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-V-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-S -High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution, retrieval complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 2	Complete	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	In Process	Modified Sluicing	High pressure water with ERSS	Chemical Dissolution with ERSS
C-112	RPP-22393, Rev. 6A	In Process	Modified Sluicing	Chemical Dissolution	-

ERSS = Extended Reach Sluicer System.

MARS = Mobile Arm Retrieval System.

TWRWP = Tank Waste Retrieval Work Plan.

Significant Past Accomplishments:

ORP and Ecology approved Modification Notice 2013-05 for TWRWP RPP-22393 allowing the high resolution resistivity system to be used for C-102 leak detection. Prior to the modification, weekly moisture logging was required when not in active retrieval because of high interstitial liquid levels. The change now allows the Tank Operations Contractor to perform 30 days of high resolution resistivity monitoring once per quarter rather than weekly moisture logging.

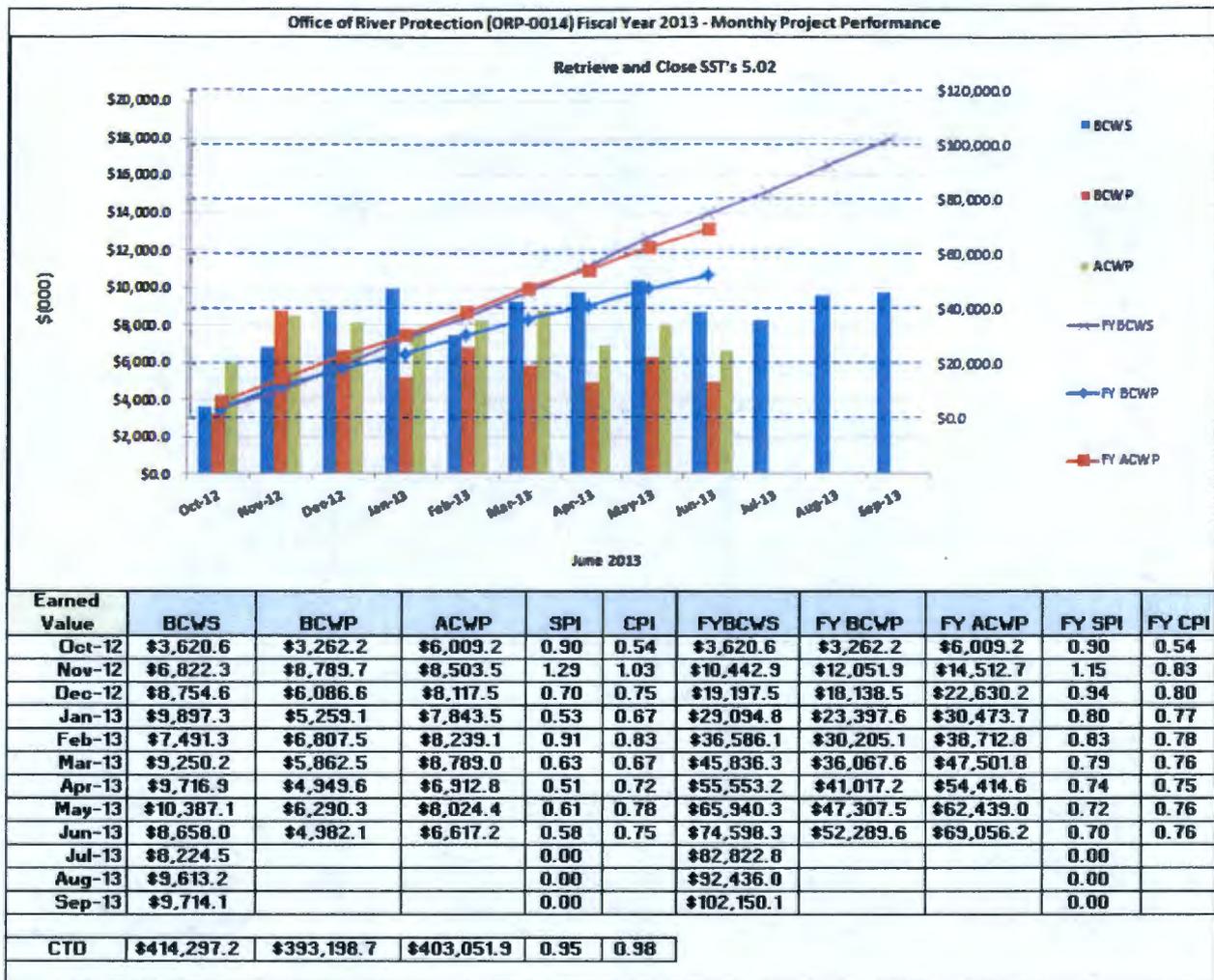
Significant Planned Activities in the Next 6 Months:

Work with Ecology on an update to the Tank Waste Retrieval Work Plan RPP-37739 for C-111 to include a second and third retrieval technology.

Issues:

None.

SST Retrieval Monthly and Fiscal Year Earned Value Management System Data



Retrieval and Close Single-Shell Tanks

Schedule Variance (SV) of (\$3,676k):

The unfavorable schedule variance is primarily due to:

- Retrieval design delays of the hard heel retrieval system in C-111, as the retrieval strategy has changed in response to DST deep bed sludge safety basis issues and resource availability issues.
- Changes in strategy for the C-112 mechanical hard heel retrieval technology. The C-112 hard heel retrieval activities are being realigned to accelerate caustic dissolution and defer the high-pressure Extended Reach Sluicing System as a result of the deep bed sludge safety basis issue and resource availability.
- Retrieval operation delays in starting waste retrieval for C-102, as operations have been realigned to coincide with the completion of C-112 hard heel retrieval in FY 2014.
- 5-month delayed start of hard heel retrieval operations in C-110 as a result of sequestration. However, the unfavorable variance is partially offset by accelerated progress of the fabrication and preparations for system start-up of the hot water skid.

- 3-week delay to the start of fieldwork for the six Hose-in-Hose Transfer Line (HIHTLs) to be removed this year, as resources were unavailable to support shield plate and hose barn removals.

Cost Variance (CV) of (\$1,635K):

The unfavorable cost variance is primarily due to:

- Longer retrieval operations than planned for C-101, causing higher costs.
- Higher subcontract and labor costs needed to resolve issues with the MARS-V prior to field deployment, including resolving eductor plugging, the safety instrument system, cross-flow filter systems, temperature monitoring, and hydraulic power unit corrosion. Management oversight has increased to resolve technical issues in support of project demobilization and closeout.
- Increased radiological control and engineering resources needed to complete the contract actions associated with the C-110 retrieval system installation activities.
- Unexpected labor costs for troubleshooting the AN-106 pump leak that occurred during the C-107 hard heel retrieval.
- Unanticipated C-Farm Infrastructure DST Receiver Tank repairs for a leak in the AN-106 pump during start-up of C-107 hard heel removal operations, which required crews to perform replacement of the siphon hose, resulting in additional labor hours charged.

Waste Treatment and Immobilization Plant Project

Number	Title	Due Date	Status
D-00A-06	Complete Methods Validations	12/31/2017	Ongoing*
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	Ongoing*
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	Ongoing*

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,098 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 545 craft, 454 non-manual, and 110 subcontractor FTE personnel working at the WTP construction site (all facilities).

As of June 2013, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) were 63-percent complete; design and engineering was 77-percent complete; procurement was 83-percent complete; construction was 71-percent complete; and startup and commissioning was 10-percent complete.

In September 2012, the baseline change proposal (BCP) that implemented the LAW, BOF, and LAB (collectively LBL) Replan was incorporated into the project over-target baseline (OTB), resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent-complete values. In October 2012, the Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-Year Interim Work Plan was incorporated into the project OTB and the percent-complete values for PT and HLW Facilities were frozen at the September 2012 rate. The WTP Project continues to progress in accordance with the LBL replan and PT/HLW 2-Year Interim Work Plan.

In June 2013, the cumulative to-date WTP Project schedule variance was a negative \$8.8 million, and the cumulative to-date WTP Project cost variance was a negative \$26.7 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL Replan and PT/HLW 2-Year Interim Work Plan.

The following is the status of project matters through the end of June.

Significant Past Accomplishments:

- The technical review team and ORP management concurred on a path forward for resolution of three technical issues
 - Mixing in vessels to prevent hydrogen retention
 - Criticality in vessels
 - Hydrogen accumulation in piping and vessels
- Initiated the Pulse Jet Mixer Control Test in 8-ft vessel (PT)
- Completed two wall placements at +37-ft elevation (HLW)
- Started fabrication of the caustic scrubber (LAW)
- Completed hazard analyses for melter and melter offgas ammonia reagent systems (LAW)
- Started site work and excavation for the Standby Diesel Generator Building (BOF)
- Completed electrical engineering design (LAB)

Significant Planned Actions in the Next Six Months:

- Develop vessel specific particle characteristics report for erosion/corrosion (PT/HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of ASX System (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete construction of WTP Chiller Compressor Plant (BOF)
- Complete repairs to radioactive liquid waste disposal (RLD) vessels (LAB).

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

On June 6, 2013, DOE notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet Consent Decree Milestone A-7.

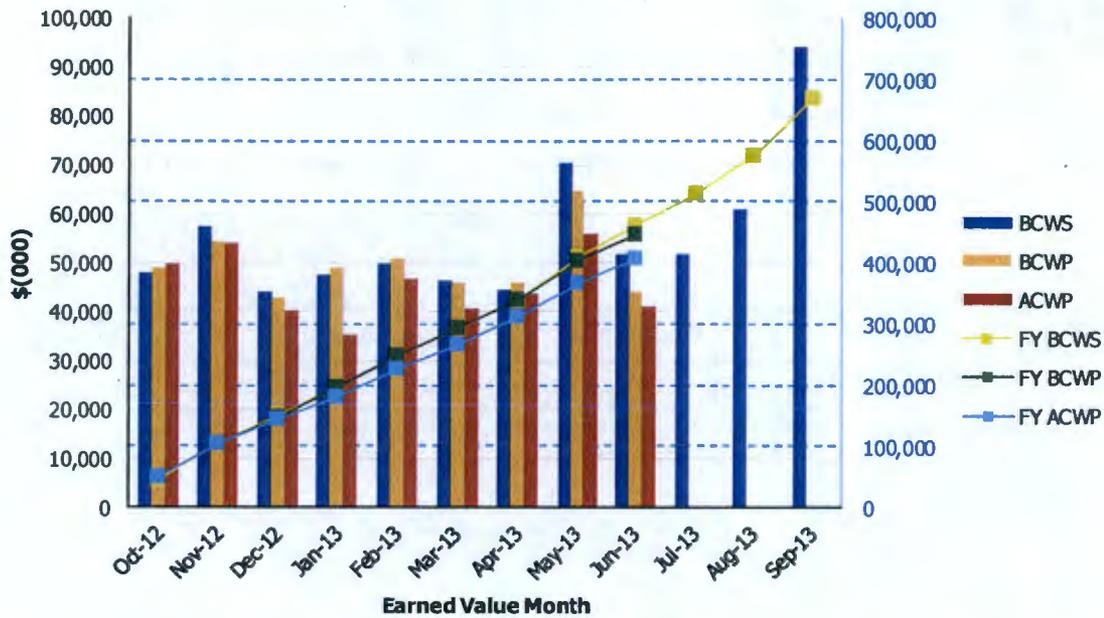
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: June 2013

**River Protection Project
Waste Treatment Plant (WTP) Project**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$47,840	\$49,300	\$49,742	1.03	0.99	\$47,840	\$49,300	\$49,742	1.03	0.99
Nov 2012	\$57,411	\$54,398	\$53,916	0.95	1.01	\$105,251	\$103,698	\$103,658	0.99	1.00
Dec 2012	\$44,336	\$43,083	\$40,457	0.97	1.06	\$149,587	\$146,781	\$144,115	0.98	1.02
Jan 2013	\$47,780	\$49,037	\$35,389	1.03	1.39	\$197,367	\$195,818	\$179,504	0.99	1.09
Feb 2013	\$49,984	\$50,929	\$47,008	1.02	1.08	\$247,351	\$246,747	\$226,512	1.00	1.09
Mar 2013	\$46,568	\$45,897	\$40,819	0.99	1.12	\$293,919	\$292,644	\$267,331	1.00	1.09
Apr 2013	\$44,537	\$46,052	\$43,887	1.03	1.05	\$338,456	\$338,696	\$311,218	1.00	1.09
May 2013	\$70,575	\$64,750	\$55,933	0.92	1.16	\$409,031	\$403,446	\$367,151	0.99	1.10
Jun 2013	\$51,759	\$44,327	\$41,082	0.86	1.08	\$460,790	\$447,773	\$408,233	0.97	1.10
Jul 2013	\$51,682					\$512,472				
Aug 2013	\$61,121					\$573,592				
Sep 2013	\$94,165					\$667,757				
PTD	\$7,549,640	\$7,548,314	\$7,578,209	1.00	1.00					

Pretreatment Facility

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	Ongoing *
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	Ongoing *
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	Ongoing *
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	Ongoing *
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	Ongoing *

The PT Facility will separate radioactive tank waste into HLW and LAW fractions and transfer each waste type to the respective vitrification facility for immobilization. As of September 2012, the PT Facility was 56-percent complete overall, with engineering design 85-percent complete, procurement 56-percent complete, construction 43-percent complete, and startup and commissioning 3-percent complete. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent-complete status since September 2012. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-Year Interim Work Plan.

Technical review teams continue to evaluate open technical issues for resolution. Construction of the mixing test platform continues in preparation for full-scale testing. Engineering specifications for the full-scale testing have been prepared and are undergoing a multi-discipline review. National laboratories are developing a test plan, simulant, and instrumentation requirements. Phase 1 testing for erosion/abrasivity testing is scheduled to be completed by the end of calendar year 2013.

BNI is performing an impact evaluation for a potential change to the natural phenomenon hazards design criteria that would double the ashfall criteria. This design criteria revision has the potential to impact facility design and heating, ventilating, and air-conditioning (HVAC) system design.

Significant Past Accomplishments:

- The technical review team and ORP management concurred on a path forward for resolution of three technical issues
 - Mixing in vessels to prevent hydrogen retention
 - Criticality in vessels
 - Hydrogen accumulation in piping and vessels
- Initiated the Pulse Jet Mixer Control Test in 8-ft vessel
- Issued Pulse Jet Mixer Control Design Strategy
- Awarded contract to Savannah River National Laboratory for development of Pourbaix diagrams to support corrosion testing

Significant Planned Actions in the Next Six Months:

- Perform independent review of the potential for criticality in vessels
- Review flammable gas generation, retention, and release from sediments in vessels
- Develop decision process for vessel structural modifications
- Develop vessel-specific particle characteristics report for erosion/corrosion
- Issue engineering specification for vessel testing
- Issue sampling action plan to determine sampling accuracy
- Issue draft procedure for conducting failure mode, effects, and criticality analysis
- Update basis of design for safety classification regarding seismic analysis of vessels

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

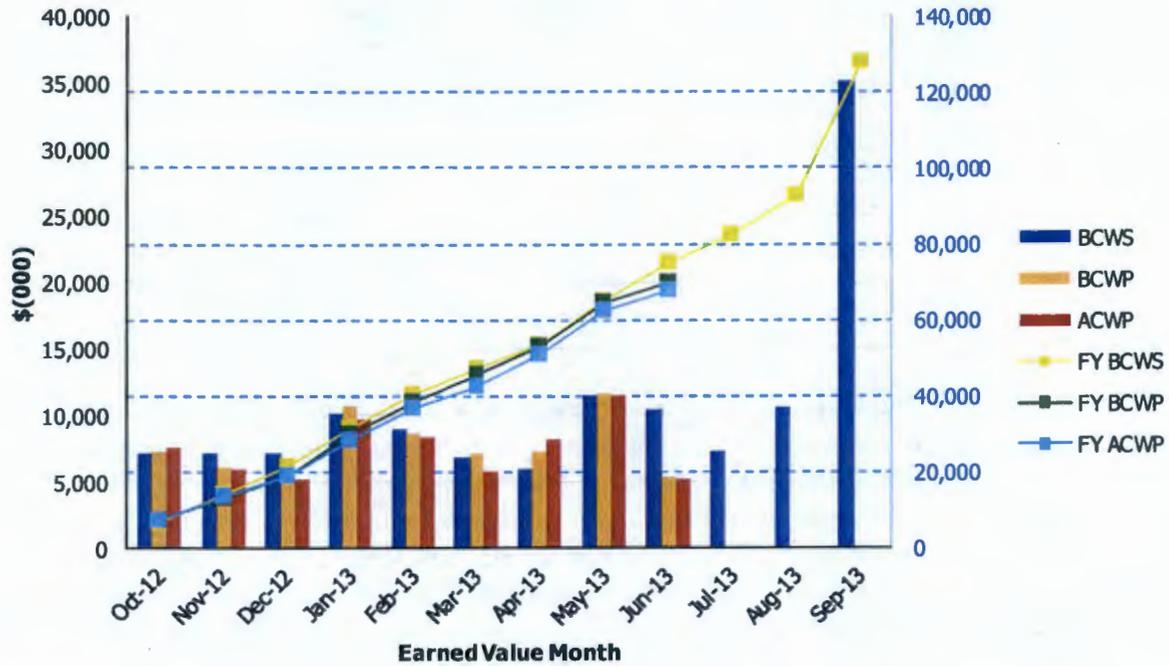
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: June 2013

**River Protection Project
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$7,077	\$7,269	\$7,660	1.03	0.95	\$7,077	\$7,269	\$7,660	1.03	0.95
Nov 2012	\$7,200	\$6,130	\$5,974	0.85	1.03	\$14,277	\$13,399	\$13,634	0.94	0.98
Dec 2012	\$7,163	\$5,619	\$5,230	0.78	1.07	\$21,440	\$19,018	\$18,864	0.89	1.01
Jan 2013	\$10,097	\$10,759	\$9,756	1.07	1.10	\$31,537	\$29,777	\$28,620	0.94	1.04
Feb 2013	\$8,994	\$8,716	\$8,382	0.97	1.04	\$40,531	\$38,493	\$37,002	0.95	1.04
Mar 2013	\$6,839	\$7,142	\$5,831	1.04	1.22	\$47,370	\$45,635	\$42,833	0.96	1.07
Apr 2013	\$5,995	\$7,355	\$8,252	1.23	0.89	\$53,365	\$52,990	\$51,085	0.99	1.04
May 2013	\$11,509	\$11,641	\$11,512	1.01	1.01	\$64,874	\$64,631	\$62,597	1.00	1.03
Jun 2013	\$10,410	\$5,286	\$5,242	0.51	1.01	\$75,284	\$69,917	\$67,839	0.93	1.03
Jul 2013	\$7,235					\$82,519				
Aug 2013	\$10,547					\$93,065				
Sep 2013	\$35,145					\$128,211				
PTD	\$1,463,832	\$1,463,456	\$1,461,552	1.00	1.00					

High-Level Waste Facility

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	Complete
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	Ongoing *
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	Ongoing *
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	Ongoing *

The HLW Facility will receive the separated HLW concentrate from the PT Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated before shipment to interim storage.

As of September 2012, the HLW Facility is 62-percent complete overall, with engineering design 89-percent complete, procurement 81-percent complete, construction 43-percent complete, and startup and commissioning 4-percent complete. Construction, procurement, and production engineering activities have significantly slowed down, resulting in minimal change to the percent completion status since September. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-Year Interim Work Plan.

Technical review teams continue to evaluate open technical issues for resolution. Construction activities include the placement of walls at the 37-ft elevation, installation of structural steel at the 58-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. Engineering efforts are focused on resolution of Priority Level 1 findings. The Environmental and Nuclear Safety group continues to update the preliminary documented safety analysis and is progressing towards performing hazard analysis for several systems.

The path forward to ramp up HLW production engineering and construction is separated into three actions: (1) engineering studies to resolve technical safety issues, (2) evaluation of engineering studies, and (3) implementation.

Significant Past Accomplishments:

- Awarded the first prototype HEPA filters subcontract (two filter types)
- Released fire barrier drawings for +37-ft elevation
- Completed two wall placements at +37-ft elevation

Significant Planned Actions in the Next Six Months:

- Complete Reliability Validation Process reviews
- Complete review of the thermal catalytic oxidizer fabrication
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility) of HLW
- Issue first hydrogen in piping and ancillary vessels hydrogen generation rate calculation

- Complete draft analysis of single point failures in support of failure mode analysis
- Complete conceptual design of in-service inspection
- Complete plan for erosion/corrosion risk evaluation for HLW

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

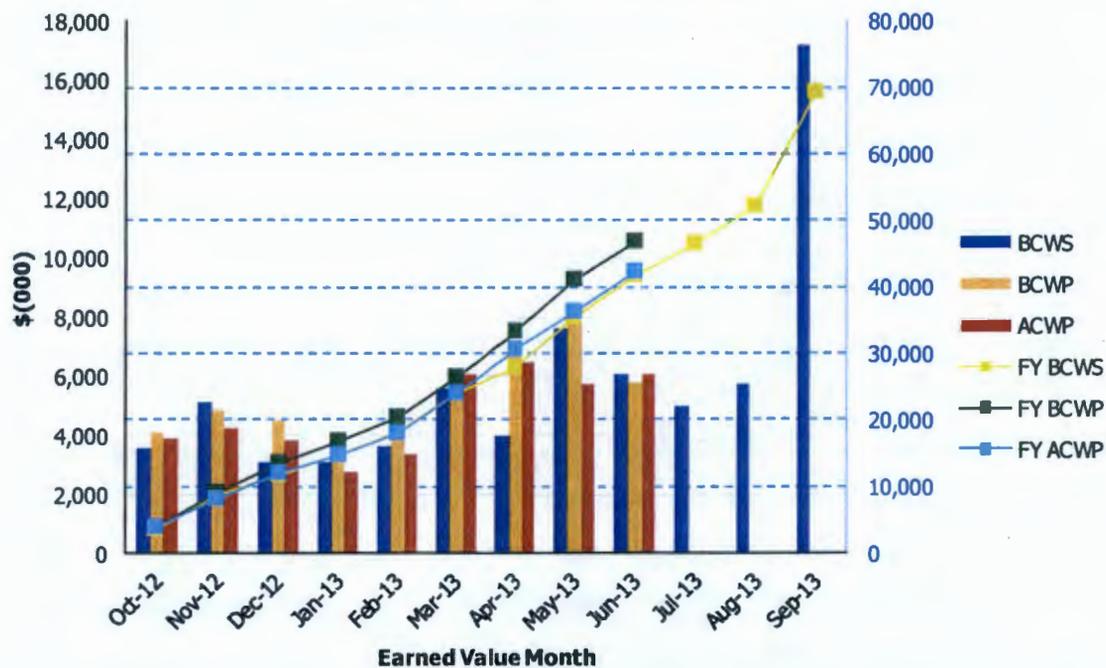
EXC-01a: Fiscal Year Cost and Schedule Report

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**River Protection Project
High-Level Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$3,545	\$4,105	\$3,895	1.16	1.05	\$3,545	\$4,105	\$3,895	1.16	1.05
Nov 2012	\$5,079	\$4,852	\$4,256	0.96	1.14	\$8,624	\$8,957	\$8,151	1.04	1.10
Dec 2012	\$3,054	\$4,496	\$3,795	1.47	1.18	\$11,678	\$13,453	\$11,946	1.15	1.13
Jan 2013	\$3,092	\$3,266	\$2,714	1.06	1.20	\$14,770	\$16,719	\$14,660	1.13	1.14
Feb 2013	\$3,639	\$3,791	\$3,362	1.04	1.13	\$18,409	\$20,510	\$18,022	1.11	1.14
Mar 2013	\$5,595	\$5,953	\$6,053	1.06	0.98	\$24,004	\$26,463	\$24,075	1.10	1.10
Apr 2013	\$3,944	\$6,860	\$6,443	1.74	1.06	\$27,948	\$33,323	\$30,518	1.19	1.09
May 2013	\$7,604	\$7,788	\$5,726	1.02	1.36	\$35,552	\$41,111	\$36,244	1.16	1.13
Jun 2013	\$6,045	\$5,767	\$6,047	0.95	0.95	\$41,597	\$46,878	\$42,291	1.13	1.11
Jul 2013	\$4,941					\$46,538				
Aug 2013	\$5,722					\$52,260				
Sep 2013	\$17,135					\$69,395				
PTD	\$950,081	\$955,452	\$952,650	1.01	1.00					

Low-Activity Waste Facility

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	Ongoing* (see issues below)
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	Ongoing
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	Ongoing

The LAW Facility will process LAW. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that are anticipated to be disposed of on the Hanford Site in the Integrated Disposal Facility. As of June 2013, the LAW Facility is 64-percent complete overall, with engineering design 77-percent complete, procurement 85-percent complete, construction 66-percent complete, and startup and commissioning 5-percent complete.

Significant Past Accomplishments:

- Started fabrication of the caustic scrubber
- Issued seven isometric drawings and one calculation for the LAW Secondary Offgas/Vessel Vent Process System
- Completed the hazard analyses for the melter and melter offgas ammonia reagent systems
- Installed fan on the annex roof for the C1 ventilation system
- Rigged cranes 5 and 6 into the export bay for the container export handling system

Significant Planned Actions in the Next Six Months:

- Complete installation of Autosampling System
- Receive HEPA preheaters for LAW Secondary Offgas/Vessel Vent Process System
- Continue refractory brick installation in the melters
- Complete hazard analysis for the melter and container handling systems

Issues:

*On June 6, 2013, DOE notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet Consent Decree Milestone A-7.

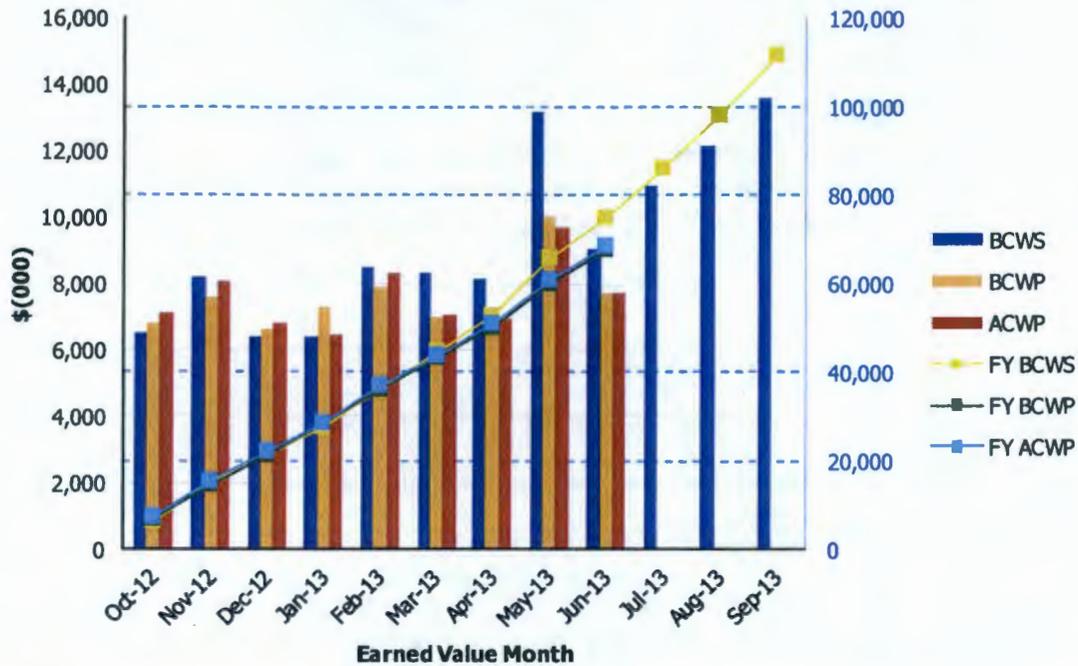
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**River Protection Project
Low-Activity Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$6,536	\$6,787	\$7,142	1.04	0.95	\$6,536	\$6,787	\$7,142	1.04	0.95
Nov 2012	\$8,212	\$7,602	\$8,071	0.93	0.94	\$14,748	\$14,389	\$15,213	0.98	0.95
Dec 2012	\$6,418	\$6,648	\$6,814	1.04	0.98	\$21,166	\$21,037	\$22,027	0.99	0.96
Jan 2013	\$6,392	\$7,303	\$6,469	1.14	1.13	\$27,558	\$28,340	\$28,496	1.03	0.99
Feb 2013	\$8,503	\$7,873	\$8,338	0.93	0.94	\$36,061	\$36,213	\$36,834	1.00	0.98
Mar 2013	\$8,316	\$6,966	\$7,054	0.84	0.99	\$44,377	\$43,179	\$43,888	0.97	0.98
Apr 2013	\$8,135	\$6,765	\$6,950	0.83	0.97	\$52,512	\$49,944	\$50,838	0.95	0.98
May 2013	\$13,190	\$9,960	\$9,706	0.76	1.03	\$65,702	\$59,904	\$60,544	0.91	0.99
Jun 2013	\$9,044	\$7,696	\$7,701	0.85	1.00	\$74,746	\$67,600	\$68,245	0.90	0.99
Jul 2013	\$10,967					\$85,712				
Aug 2013	\$12,145					\$97,858				
Sep 2013	\$13,606					\$111,464				
PTD	\$746,222	\$746,933	\$799,383	1.00	0.93					

Balance of Facilities

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	Complete

The BOF provides services and utilities to support operation of the main production facilities PT, HLW, LAW, and LAB. As of June 2013, BOF is 57-percent complete overall, with engineering design 78-percent complete, procurement 73-percent complete, construction 75-percent complete, and startup and commissioning 11-percent complete.

Commercial grade dedication activities in support of the emergency turbine generator procurement are the primary focus for design engineering and the procurement organization. Construction efforts are focused on completion of the Glass Former Facility and Chiller Compressor Plant. Excavation activities for the Standby Diesel Generator Building have begun, and facility completion is targeted for June 2014.

Significant Past Accomplishments:

- Installed over 5,000 linear feet of cable in the Glass Former Facility
- Started site work and excavation for the Standby Diesel Generator Building
- Completed flush and functional testing of the Fire Protection Water System in Building 91

Significant Planned Actions in the Next Six Months:

- Complete construction of the Glass Former Storage Facility
- Complete construction of WTP Chiller Compressor Plant
- Complete the component testing of the low-voltage, medium-voltage, and fire detection systems for Switchgear Buildings 87 and 91

Issues:

No major issues at this time.

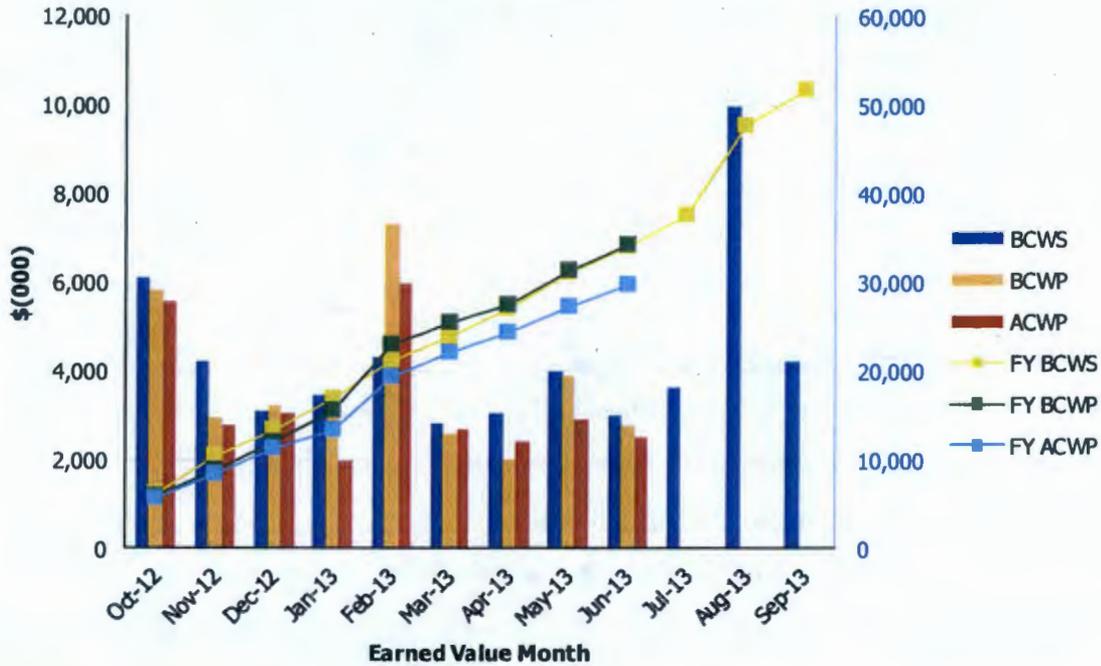
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**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$6,106	\$5,820	\$5,580	0.95	1.04	\$6,106	\$5,820	\$5,580	0.95	1.04
Nov 2012	\$4,226	\$2,955	\$2,775	0.70	1.06	\$10,332	\$8,775	\$8,355	0.85	1.05
Dec 2012	\$3,077	\$3,213	\$3,026	1.04	1.06	\$13,409	\$11,988	\$11,381	0.89	1.05
Jan 2013	\$3,452	\$3,559	\$1,970	1.03	1.81	\$16,861	\$15,547	\$13,351	0.92	1.16
Feb 2013	\$4,286	\$7,315	\$5,963	1.71	1.23	\$21,147	\$22,862	\$19,314	1.08	1.18
Mar 2013	\$2,799	\$2,588	\$2,675	0.92	0.97	\$23,946	\$25,450	\$21,989	1.06	1.16
Apr 2013	\$3,057	\$1,988	\$2,397	0.65	0.83	\$27,003	\$27,438	\$24,386	1.02	1.13
May 2013	\$3,987	\$3,897	\$2,929	0.98	1.33	\$30,990	\$31,335	\$27,315	1.01	1.15
Jun 2013	\$3,021	\$2,789	\$2,504	0.92	1.11	\$34,011	\$34,124	\$29,819	1.00	1.14
Jul 2013	\$3,638					\$37,649				
Aug 2013	\$9,955					\$47,604				
Sep 2013	\$4,223					\$51,828				
PTD	\$302,751	\$303,023	\$298,318	1.00	1.02					

Analytical Laboratory

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	Complete

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of June 2013, the LAB is 69-percent complete overall, with engineering design 75-percent complete, procurement 86-percent complete, construction 83-percent complete, and startup and commissioning is 22-percent complete.

Engineering efforts are focused on supporting radioactive liquid waste disposal (RLD) vessel repairs and finalizing the electrical engineering portions of the LAB design. Construction efforts are focused on installation of instrument tubing and electrical commodities to support the completion of LAB construction.

Significant Past Accomplishments:

- Completed electrical engineering design
- Installed over 17,000 linear feet of electrical cable in the last month
- Installed over 110,000 linear feet of electrical cable in the last 5 months

Significant Planned Actions in the Next Six Months:

- Receive instrument and transport lines for the exhaust stack monitors
- Complete cable terminations for the HVAC air-handling units and adjustable speed drives
- Complete repairs to RLD vessels

Issues:

No major issues at this time.

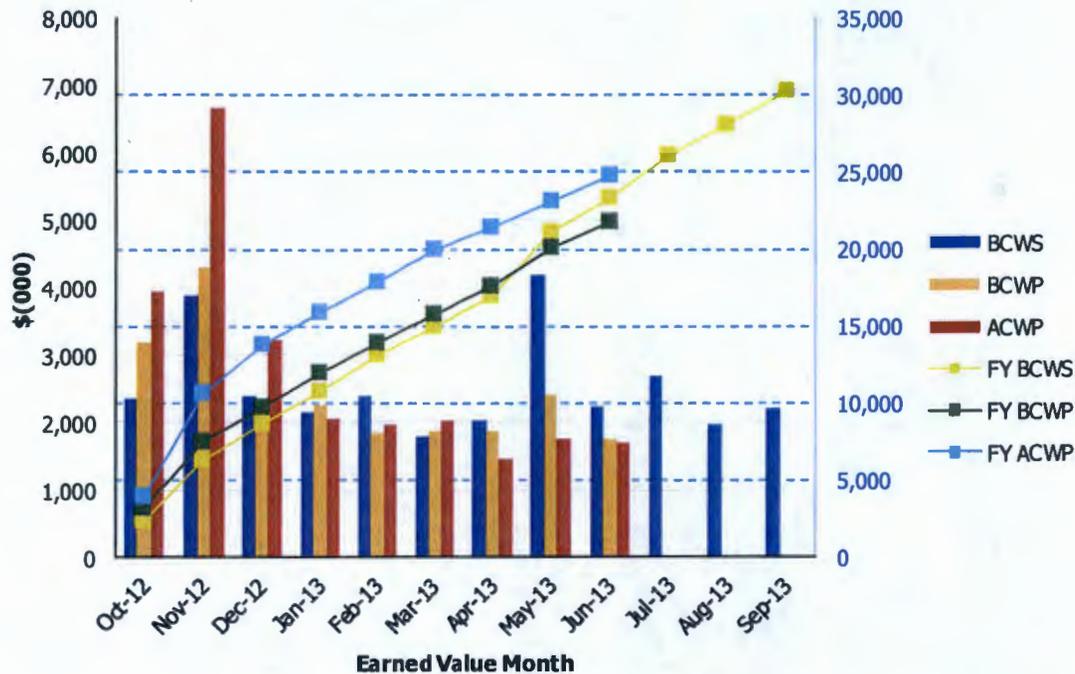
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: June 2013

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$2,370	\$3,183	\$3,952	1.34	0.81	\$2,370	\$3,183	\$3,952	1.34	0.81
Nov 2012	\$3,896	\$4,303	\$6,675	1.10	0.64	\$6,266	\$7,486	\$10,627	1.19	0.70
Dec 2012	\$2,381	\$2,257	\$3,219	0.95	0.70	\$8,647	\$9,743	\$13,846	1.13	0.70
Jan 2013	\$2,137	\$2,270	\$2,052	1.06	1.11	\$10,784	\$12,013	\$15,898	1.11	0.76
Feb 2013	\$2,387	\$1,852	\$1,977	0.78	0.94	\$13,171	\$13,865	\$17,875	1.05	0.78
Mar 2013	\$1,783	\$1,879	\$2,044	1.05	0.92	\$14,954	\$15,744	\$19,919	1.05	0.79
Apr 2013	\$2,021	\$1,883	\$1,475	0.93	1.28	\$16,975	\$17,627	\$21,394	1.04	0.82
May 2013	\$4,187	\$2,419	\$1,757	0.58	1.38	\$21,162	\$20,046	\$23,151	0.95	0.87
Jun 2013	\$2,224	\$1,749	\$1,698	0.79	1.03	\$23,386	\$21,795	\$24,849	0.93	0.88
Jul 2013	\$2,688					\$26,074				
Aug 2013	\$1,964					\$28,038				
Sep 2013	\$2,220					\$30,258				
PTD	\$222,901	\$224,698	\$244,750	1.01	0.92					

Waste Treatment Plant Project - (LBL) Percent Complete Status Through June 2013															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	1,195.4	764.6	64%	308.7	236.5	77%	260.7	222.4	85%	448.2	296.5	66%	177.8	9.2	5%
Analytical Lab	330.9	228.9	69%	71.7	54.0	75%	54.7	46.9	86%	135.6	112.7	83%	68.9	15.2	22%
Balance of Facilities	543.5	309.7	57%	93.2	72.8	78%	71.1	51.7	73%	224.4	168.0	75%	154.7	17.2	11%
Total LBL	2,069.8	1,303.2	63%	473.5	363.3	77%	386.6	321.0	83%	808.3	577.2	71%	401.4	41.6	10%
PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)															
High-Level Waste	1,478.6	922.1	62%	364.4	325.2	89%	433.9	349.4	81%	561.1	243.2	43%	119.2	4.4	4%
Pretreatment	2,517.3	1,410.5	56%	761.7	645.8	85%	679.9	380.4	56%	890.0	378.6	43%	185.8	5.6	3%
Shared Services	4,726.9	3,632.6	77%	1,047.0	977.9	93%	451.7	395.0	87%	1,436.5	1,143.0	80%	453.5	133.2	29%
Total WTP w/o UB	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%
Undistributed Budget	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%

Source: Preliminary WTP Contract Performance Report - Format 1, Data for June 2013

Note: In September 2012, the LBL Replan was incorporated into the project OTB baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. In October 2012, the PT/HLW/SS Interim Work Plan was incorporated into the project OTB baseline resulting in decreases to the PT/HLW/SS facility budgets, this was due to a work scope shift from the Distributed budget to UB. Percent Complete Values shown for PT, HLW and SS have been frozen with the September 2012 values due to the Interim Work Plan and budgets being moved into UB. UB value for the project for PT/HLW/SS is \$1,983M.

ORP/Ecology TPA and CD Agreements, Issues, and Actions for August 2013

Agreements:

1. ORP will continue to meet with ECY to discuss funding and work priorities per TPA Paragraphs 148/149 process.
2. Per an ECY standing request, ORP agrees to include any written directives given by DOE to the contractors for work required by the CD in future Semi-Annual CD Reports (see CD Section IV-C-1-e, page 8).
3. The ORP and ECY PMs have developed, signed, and entered an outline for the CD Tank Completion Certification into the TPA Administrative Record. Senior management will continue to be briefed if any follow-on actions arise.

Issues:

1. Ecology has a concern with WTP data being reported exclusively in the CD Monthly Summary Report as the current CD reporting process does not allot ECY early review time of the CD Monthly Summary Report. ORP and ECY have raised this concern for discussion at the Senior Management levels.
2. AY-102 Primary Tank Leak: Monitoring of the leak into the annulus of AY-102 continues. The tank is ready to be able to transfer liquids out of the primary tank or from the annulus to the primary. A pumping plan was submitted to Ecology on June 14, 2013 and ORP is proceeding with the planning, procurement and installation of out-of-tank equipment that will be needed to remove the solids from the primary tank of AY-102.
3. T-111 and Other Single Shell Tank Level Decreases: 20 tanks have been identified to be evaluated due to declining surface and/or interstitial liquid levels. T-111 evaluation has been completed and determined that based on the available in-tank data, the tank appears to be leaking. 5 other priority tanks have had visual inspections performed and the evaluations will be complete by September 30, 2013. Evaluation of the remaining 14 tanks will be complete no later than January 31, 2014.
4. Ecology TPA Project Managers expressed concerns with a line item in the ORP FY2014 budget request for planning for the direct-feed of the WTP Law Facility, and why there has been no discussion with Ecology prior to this being included in the budget request. The ORP and Ecology TPA PMs have agreed to raise this issue to their respective management for discussion/resolution.

Actions:

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Closed
Tank Farms Actions					
TF-13-08-01	08/13/13	ORP will discuss ideas for improvement to current structure/processes for tracking TPA scopes of work (internal meeting first then discussion with ECY).	Open.	Jim Lynch	
TF-13-06-01	06/25/13	ECY requests a meeting with ORP PMs to look at issues with the System Plan (unknowns, scheduling/timing of the milestone deliverables/decisions, etc.)	Open. ORP would like to hold a meeting with ECY in August to discuss the System Plan.	DaBrisha Smith / Steve Pfaff	

ORP/Ecology TPA and CD Agreements, Issues, and Actions for August 2013

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Closed
TF-13-05-04	05/16/13	ORP will set up a meeting with ECY to discuss direct feed LAW and TF support (with TF/WTP Integration POCs). ECY requests that ORP close with them on this action within the next month.	Open. Combined with Action TF-13-02-04 which was opened on 02/21/13.	Tom Fletcher	
TF-13-05-03	05/16/13	ORP will set up a meeting with ECY to discuss the SSTs for chemistry effects/changes on liners based on current inspection data.	Open. ORP would like to schedule a meeting with ECY after the intrusion evals are completed (October timeframe).	Jeremy Johnson / Billie Mauss	
TF-13-05-02	05/16/13	ORP will set up a meeting with ECY to discuss chemistry in DSTs, including surface and layer sampling and chemistry control processes.	Closed. A briefing was held on DST Corrosion Chemistry Control & Monitoring on 05/30/13.	Jeremy Johnson	05/30/13
TF-13-05-01	05/14/13	ORP will provide two DQOs to ECY (Mike Barnes) for a Solubility Model and Tank C-112 Hard Heel Dissolution	Open.	Billie Mauss	
TF-13-04-01	04/23/13	ECY would like to gain a better understanding of the WFD pulse jet mixing change request for implementation of DNFSB 2010-2.	Open. ORP will share the DNFSB 2010-2 response/plan when it is finalized/transmitted.	Steve Pfaff	
TF-13-03-05	03/26/13	ECY would like ORP to provide a table outlining the previous DST Core Sampling done for AY/AZ/SY tanks, their sampling spec results, and any follow-up actions (i.e. chemicals added to maintain DST Acceptance criteria).	Open. ORP provided tables of sampling efforts.	Billie Mauss	
TF-13-03-04	03/26/13	ECY will review the draft TPA Chg Pckg for M-062-40ZZ and M-062-45ZZ (regarding work on the one-time Supplemental Treatment Technologies Report) provided by ORP and will provide any comments before the Parties agree to finalize any changes.	Open. ORP provided a draft change package for these milestones on 02/12/13. ECY comments were received on 05/09/13. To be included in System Plan discussions described in action item TF-13-06-01.	Steve Pfaff	
TF-13-02-03	02/21/13	ECY would like to meet with ORP to discuss work on the WMA C PA and other options for M-045-61/-62. <u>Update:</u> ORP met with ECY on 03/14/13 and 05/13/13, 05/16/13, and 06/20/13.	Open. Talks between the PMs are on-going. A TPA change package is being drafted.	Chris Kemp	

ORP/Ecology TPA and CD Agreements, Issues, and Actions for August 2013

#	Date Initiated	Action Description	Action Status	Actionee(s)	Date Closed
TF-12-10-04	10/16/12	ECY would like to discuss C-107 and considerations for Tc-99 concerns with tank residuals and technology selection.	Open. On hold until after C-107 RDR sampling has occurred.	Chris Kemp	
TF-12-10-02	10/10/12	Per M-045-56 annual meeting: Set meeting with site water purveyor to address leak detection and testing in active water lines.	Closed. ORP and ECY met with the site water purveyor on 08/06/13.	Chris Kemp	08/06/13
TF-12-09-02	09/25/12	ECY PMs would like to set up a meeting with ORP PMs to define the purpose and scope of the PMM meetings (roles, responsibilities, objectives). This meeting was held on 11/13/12.	Open. ECY will review these results for discussion at a follow-up overall ORP/ECY Comms Improvements meeting.	Jeff Lyon	
WTP Actions					
WTP-13-04-03	04/23/13	ORP will update ECY on a monthly basis on the path forward for the TCO vendor concerns.	Open.	Jeff Bruggeman	
WTP-13-04-01	04/23/13	ORP will meet with ECY to discuss status on the RVP Wave I and path forward for RVP Wave II.	Open.	Gary Olsen	
WTP-13-01-01	01/22/13	ORP will get back to ECY on a briefing to discuss the LAB cathodic protection issue.	Open.	Jason Young	

Recent Items Entered/To Be Entered into the TPA Administrative Record (see <http://www5.hanford.gov/arpir/?content=advancedSearch> - search EDMC File Number)

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
July 2013 ORP CD Monthly Report	All	1221069
July 2013 ORP TPA Monthly Report	All	0088266
July 2013 ORP TPA Semi-Annual Report, 13-ECD-0063	M-062-01	1221266
July 2013 ORP CD Semi-Annual Report, 13-ECD-0067	D-00C-01	1221253