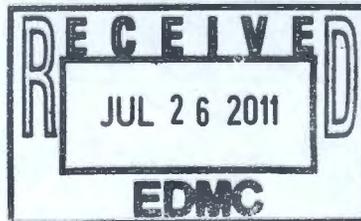


**FINAL**

Office of River Protection  
Tri-Party Agreement  
Project Summary Report  
July 26, 2011



Office of River Protection  
Tri-Party Agreement Milestone Review Meeting  
July 26, 2011

Page	Topic	Leads	Time
TPA 1 / CD 1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	9:00
TPA 6	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon	9:05
TPA 8 / CD 5	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, <ul style="list-style-type: none"> <li>- Tank in Appendix H Status</li> <li>- C-Farm Critical Path</li> <li>- Tanks with Individual Milestones</li> <li>- Double-Shell Tank Closure</li> <li>- 242-A Evaporator Status</li> </ul> SST Retrieval and Closure CD Milestones and TWRWP Status; D-00B series	Chris Kemp / Dan Knight / Jeff Lyon	9:20
TPA 18	SST Integrity Assurance; M-45-91	Jeremy Johnson / Michelle Hendrickson	9:40
TPA 21	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes	9:45
TPA 23	Tank Operations Contract (TOC) Overview	Kathy Higgins / Jeff Lyon	9:50
TPA 31	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald	10:05
TPA 32	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald	10:10
TPA 33	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald	10:15
<b>BREAK</b>			
TPA 34 / CD 8	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49; D-00A-01, -06, -17	Delmar Noyes / Dan McDonald	10:30
TPA 35 / CD 10	WTP Pretreatment (PT) Facility; D-00A-13, -14, -15, -16, -19	Wahed Abdul / Dan McDonald	10:40
TPA 37 / CD 14	WTP High-Level Waste (HLW) Facility; D-00A-02, -03, -04, -21	Jason Young / Dan McDonald	10:50
TPA 38 / CD 17	WTP Low-Activity Waste (LAW) Facility; D-00A-07, -08, -09	Gary Olsen / Dan McDonald	11:00
TPA 40 / CD 20	WTP Analytical Laboratory (LAB); D-00A-05		11:05
TPA 42 / CD 22	WTP Balance of Facilities (BOF); D-00A-12		11:10

### Fiscal Year 2011 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-40A	Select a Minimum of 3 scenarios	10/31/10	10/27/10										
D-001-00-R46	Quarterly Report	10/31/10	10/28/10										
M-045-100	Submit to Ecology an Agreement Primary Document a Catch Tank "Assumed Leak" Response Plan.	12/28/10	12/28/10										X
M-045-101	Submit to Ecology as an Agreement Primary Document a Report on all Catch Tanks and Pipelines Used for SST Operations	12/28/10	12/28/10										
M-045-91A	Submit an Agreement Change Package with Interim Milestones to Implement the Panel's Recommendations M-045-91	12/27/10	09/27/10										
M-045-92D	Complete Negotiations to Schedule Remaining 4 Additional Barriers	12/31/10	12/07/10										
M-045-92E	Meet Yearly on Performance of Barrier	12/31/10	12/07/10										

### Fiscal Year 2011 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-20	Complete All 28 Issues in Independent WTP Flowsheet & Throughput Assessment	12/31/10	08/20/10										
M-045-80	Complete those Portions of C-200 Closure Demonstration Plan Necessary to Complete Closure Plan Development for SST System	01/31/11	12/28/10										
M-062-01V	Submit Semi-Annual Project Compliance Report	01/31/11	01/27/11										
D-001-00-R47	Quarterly Report	01/31/11	01/28/11										
M-045-91G-T05	Provide Report of the Visual Inspections of 12 SSTs in Table 3.3	03/31/11	03/11/11										
M-045-92K	Barrier 1 Design/Monitoring Approval from Ecology	06/30/11	05/19/11										
M-036-01A	Submit to EPA & Ecology Lifecycle, Scope, Schedule & Cost for Hanford Site (RL is DOE Lead)	07/25/11		X									

Fiscal Year 2011 Tri-Party Agreement Milestone Status													
Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-56G	Ecology and DOE Agree to Meet, at a Minimum, Yearly (by July)	07/31/11		X									
M-062-01W	Submit Semi-Annual Project Compliance Report	07/31/11		X									
M-045-91C	Implement DQO Process, Test Plan to Evaluate the Chemistries	09/30/11		X									
M-045-91G-T01	Provide AOR Final Doc. For SSTs on 530,000 Gallon Tanks	09/30/11		X									
M-045-13	Interim Completion of Tank S-112 SST Waste Retrieval and Closure	TBD [In accordance with M-045-84 or -85]		X									
M-045-13E	Complete Negotiations for Interim Milestones for Closure of S-112	TBD [In accordance with M-045-84 or -85]		X									

### Fiscal Year 2012 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-062-30	Complete Negotiations Establishing Milestones for Near-Term Actions	10/25/11								X 07/18/11			
M-062-40B	Submit System Plan	10/31/11		X									
M-062-49	Submit Report to Ecology Demonstrating WTP Design Meets Vit. Criteria	10/31/11		X									
M-045-91B	Submit a Sampling and Analysis Plan to Ecology	12/30/11		X									
M-045-92F	Meet Yearly on Performance of Barrier	12/31/11		X									
M-045-91G-T02	Provide AOR Final Doc. For SSTs on 750,000 Gallon Tanks	01/31/12		X									
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12		X									
M-062-01X	Submit Semi-Annual Project Compliance Report	01/31/12		X									
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	03/31/12	06/27/11										

### Fiscal Year 2012 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs per criteria in M-045-91G-T05	03/31/12		X									
M-045-92M	Barrier 2 Design/Monitoring Approval from Ecology	06/30/12	05/19/11										
M-047-06	Complete Negotiation of No More Than 2 Interim Milestones	06/30/12		X									
M-062-01Y	Submit Semi-Annual Project Compliance Report	07/31/12		X									
M-045-91G-T03	Provide AOR Final Doc for SSTs on 1,000,000 Gallon Tanks	09/30/12		X									

## WBS 5.2 Retrieve and Close Single Shell Tanks

**M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/08 Status: Complete.**

Master Work Plan is in the Primary document revision process. ORP transmitted its response to Ecology on August 18, 2010. Ecology extended review of comment responses to October 29, 2010. Ecology requested at the October PMM a two week extension from October 27, 2010. ORP acknowledged that Ecology's comment response will be considered in abeyance until DOE-ORP, Ecology, and EPA complete their negotiation of the AIP applicable to Appendix I. Ecology assumed that negotiations would be done December 24, 2010. They have been extended.

**M-045-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C, Due: 12/31/08, Status: Complete.**

ORP and Ecology continue to meet monthly to identify and manage changes in the work plan. The last meeting was held June 23, 2011. Meeting minutes for the May 26, 2011 sessions have been signed by the parties and have been entered into the TPA administrative record.

**M-045-56G, Complete Implementation of Agreed to Interim Measures, Due: 07/31/11, Status: On Schedule. Meeting for 2011 was held on July 13, 2011.**

**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 WMAS (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: 12/31/14, Status: On Schedule**

**M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report for WMA C, Due: 06/30/2015, Status: On Schedule**

**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: 9/30/2016, Status: On Schedule.**

**M-045-92K, Barrier 1 Design/Monitoring Approval from Ecology, Due: 6/30/2011, Status: Complete.**

**M-045-92M, Barrier 2 Design/Monitoring Approval from Ecology, Due: 6/30/2012, Status: Complete.** If negotiated, complete installation of 4 additional interim barriers at a rate of one per year, with the first being completed by October 31, 2012. Prior to beginning construction and at least sixteen months before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier. The barrier design and monitoring plans will be consistent with those developed for WMA T and TY unless DOE and Ecology agree otherwise. Ecology will authorize construction upon approval of these submittals. Ecology

letter, 11-NWP-044, dated May 19, 2011, approved the actions associated with these milestones. ORP sent letter 11-TF-064 to ECY on June 15, 2011 to formally close these milestones.

**M-045-92F, DOE and Ecology will meet yearly to review the monitoring data, agree to changes in monitoring (if needed) and assess the performance of the demonstration barrier,**  
Due: 12/31/2011, Status: On Schedule

**Significant Past Accomplishments:**

1. T-Farm interim barrier monitoring continues.
2. TY Interim Barrier monitoring continues.
3. Continued direct push characterization in C Farm at various planned locations. Initiated angled direct push campaign beneath tank C-101
4. Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.
5. Continued remediation technology assessments in support of a Corrective Measures Study for WMA C.
6. Continued analysis of 3-D SGE data set for UPR-200-E-82 in C farm.
7. Deep electrodes placed during direct push campaign in eastern BY farm have been tested and found to have equilibrated with the surrounding soils.
8. Continued direct push campaign in S-farm in support of a future interim barrier.

**Significant Planned Actions in the Next Six Months:**

1. Continue direct push campaign in C Farm.
2. Continue direct push campaign in S-Farm in support of a future interim barrier.
3. Perform 3-D SGE data collection in eastern BY farm.
4. Complete resistivity data analysis for 3-D SGE characterization of UPR-82 in C Farm.
5. Continue remediation technology assessments in support of a Corrective Measures Study for WMA C.
6. Perform additional updates to WMA C RFI/CMS workplan based on requested changes from Ecology.
7. Initiate construction of the evapotranspiration basin for the interim surface barriers for SX farm, and initiate construction.

**Issues:**

ORP is in internal discussions in consideration of Ecology's request for additional RFI/CMS milestones.

## SST Retrieval and Closure Program

**M-045-100, Submit as a primary document a Catch Tank "assumed leak response plan,** Due: 12/27/10, Status: In Dispute. Transmitted from ORP to ECY via letter 10-TPD-176 on 12/28/10. Ecology issued a Notice of Violation on May 24, 2011, via letter 11-NWP-038, indicating that the deliverable did not fulfill the milestone. The ORP initiated dispute resolution on June 1, 2011, via letter 11-TF-065. ORP also requested an extension, to August 31, 2011, of the comment resolution period, via letter 11-TF-067.

**M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A,** Due: 12/27/10, Status: Complete. Transmitted from ORP to Ecology via letter 10-TPD-176 on 12/28/10. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested an extension, to August 31, 2011, of the comment resolution period, via letter 11-TF-067.

**M-045-80, Complete those portions of C-200 Closure Demonstration Plan,** Due: 1/31/2011 Status: Complete. Four primary documents transmitted from ORP to Ecology via letter 10-TPD-166 on 12/28/10. Comments on three of the four documents were transmitted from Ecology to ORP on May 27, 2011, via letters 11-NWP-045, 11-NWP-047, and 11-NWP-051. ORP requested an extension, to September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049.

**M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan and provide a report of the results of those activities,** Due: 9/30/2014, Status: On Schedule. The first deliverable specified in the closure demonstration plan was formally transmitted from ORP to ECY via letter 10-TPD-166 on 12/28/10. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to September 25, 2011, of the comment resolution period for those three documents via letter 11-TF-067.

**M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST,** Due: 9/30/2015 Status: On Schedule

**M-045-84, Complete negotiations of TPA interim MS for closure of second WMA,** Due: 1/31/2017, Status: On Schedule

**M-045-83, Complete the closure of WMA C,** Due: 6/30/2019, Status: On Schedule

**M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs,** Due: 1/31/2022, Status: On Schedule

**M-045-70, Complete waste retrieval from all remaining SSTs,** Due: 12/31/2040, Status: On Schedule

**M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule**

**M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule**

**Significant Past Accomplishments:**

- See discussions above and related discussions in Consent Decree report.

**Significant Planned Activities in the Next Six Months:**

- See discussions above and related discussions in Consent Decree report.
- Work to discuss and resolve issues and comments associated with deliverables for M-45-100, 101, 80, and 81.

**Issues:**

- M-045-100 Notice of Violation (NOV): Ecology has given ORP an NOV (letter 11-NWP-038, dated 5/24/11) for a determination that the primary document for the Single-Shell Tank System Catch Tank Assumed Leak Response Plan (RPP-RPT-48438, Revision 0) does not fulfill the intent of milestone M-045-100. ORP initiated dispute resolution on June 1, 2011, via letter 11-TF-065.
- Tank Farm Soil Cleanup: Unsigned draft Tentative Agreement and unsigned draft Change Packages C-11-01 (for WMA C soil to be addressed as RCRA/CERCLA Past Practice Unit) and M-45-11-02 (title changes to M-045-61 and -62 to allow CAD/ROD process) were presented to Ecology on 03/29/11. Ecology preference is to address soils through a 3116 and RCRA process.
- The Richland Office of USDOE has proposed an IS-1 alternate to the planned deliverable, as we understand the "IS-1 Common Vision" discussion on 1-18-11. IS-1 requires the delivery of an RFI/CMS that would include Tank Farm Pipelines. This should be included in the critical path as well.
- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS is in the Winter of 2011.
- USDOE is delaying the final numeric modeling supporting the WMA C performance assessment to align the timing with completion of the Tank Closure and Waste Management EIS. Impacts of this delay are being incorporated into the critical path schedules.

## **Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria**

### **Tank 241-C-106**

#### **Significant Past Accomplishments:**

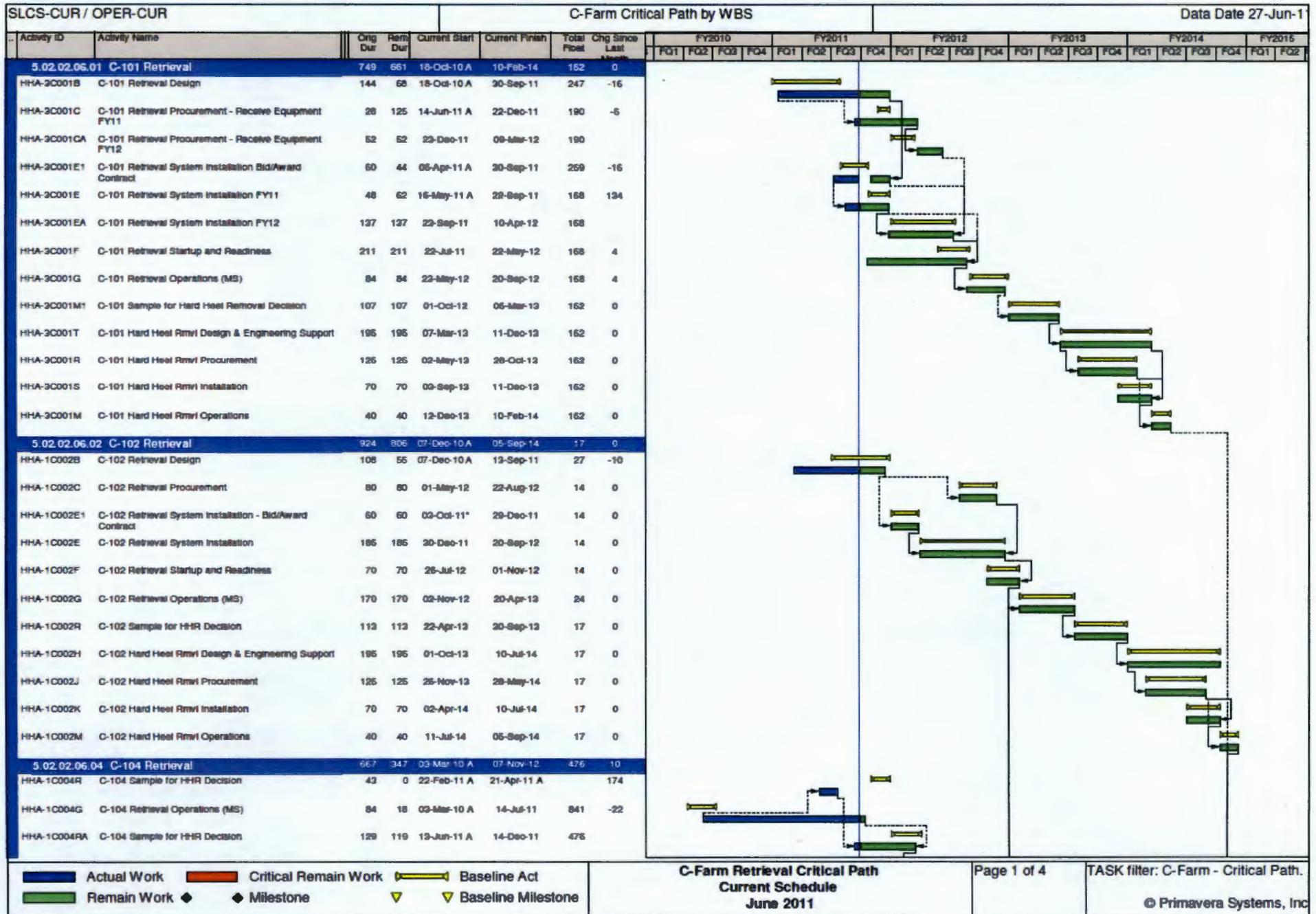
None

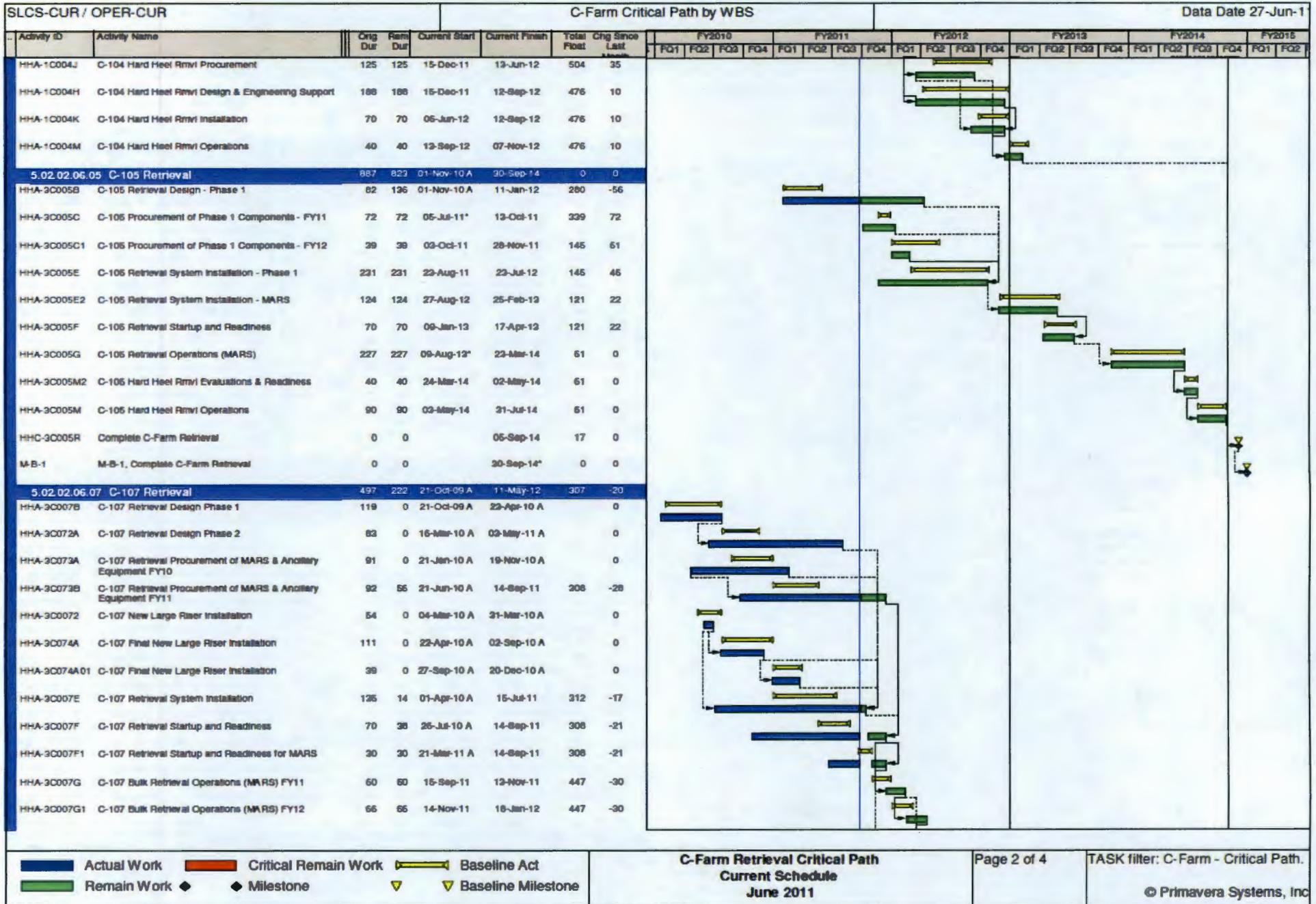
#### **Significant Planned Activities in the Next Six Months:**

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

#### **Issues:**

None





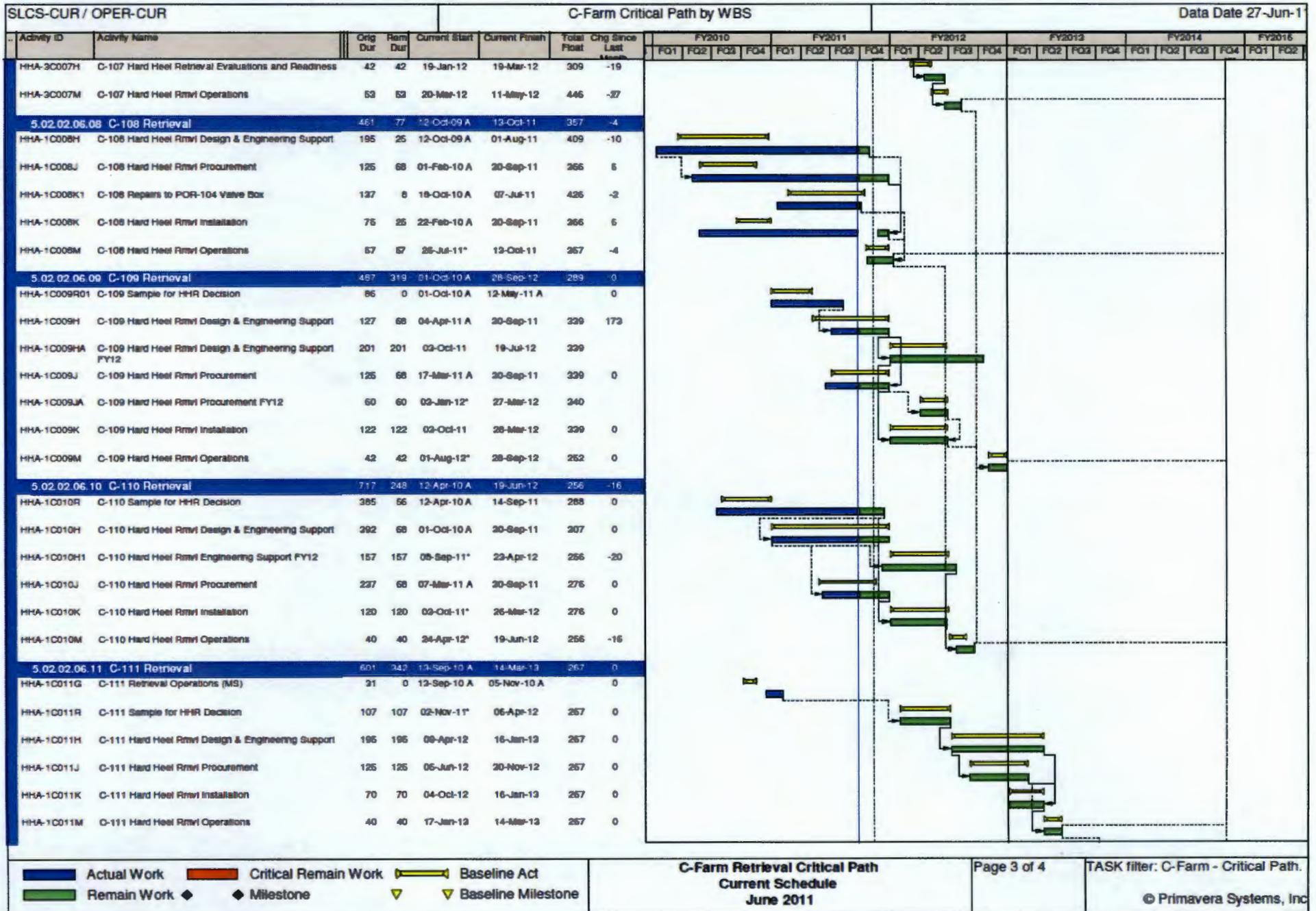
■ Actual Work   
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 ▽ Baseline Milestone

**C-Farm Retrieval Critical Path  
Current Schedule  
June 2011**

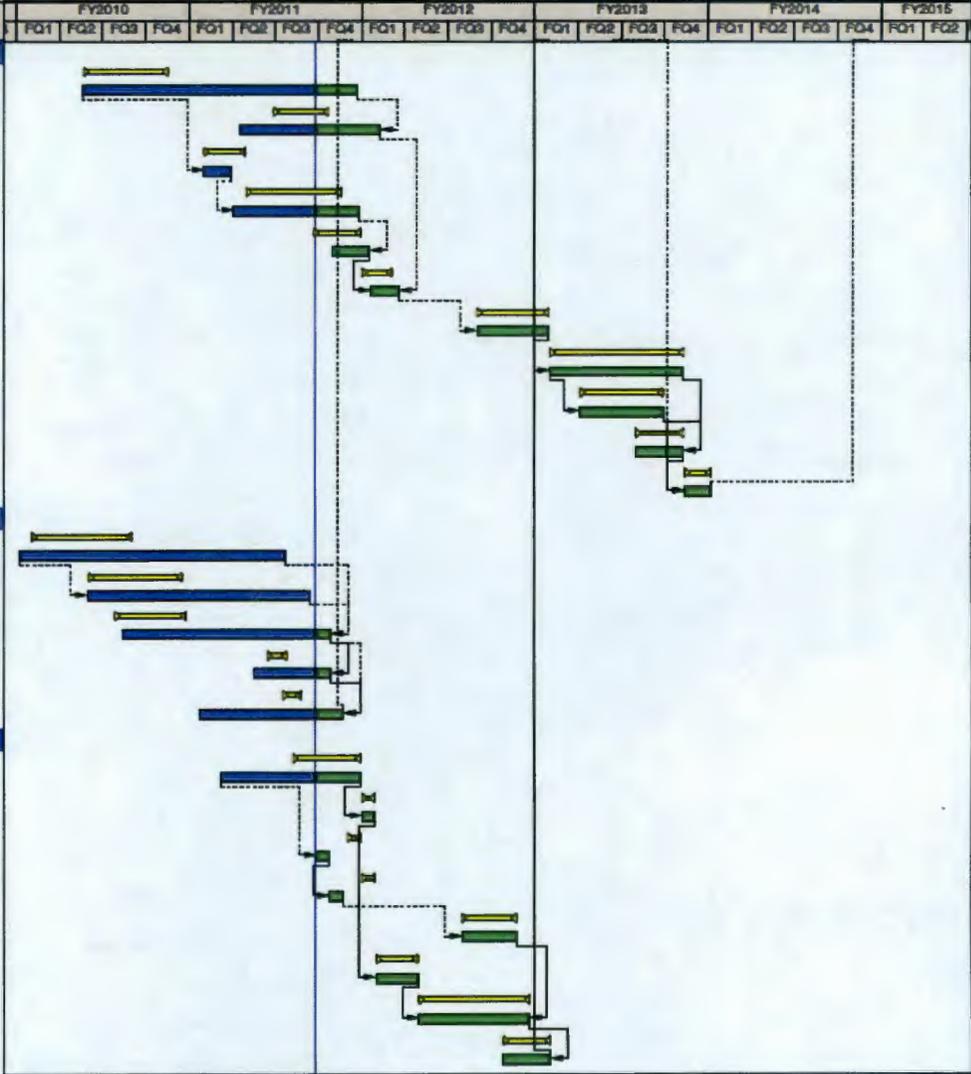
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TASK filter: C-Farm - Critical Path.

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SLCS-CUR / OPER-CUR		C-Farm Critical Path by WBS						Data Date 27-Jun-11																							
Activity ID	Activity Name	Orig Dur	Rem Dur	Current Start	Current Finish	Total Float	Chg Since Last Month	FY2010				FY2011				FY2012				FY2013				FY2014				FY2015			
								FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4	FO1	FO2	FO3	FO4
<b>5.02.02.06.12 C-112 Retrieval</b>		917	577	18-Feb-10 A	08-Oct-13	246	0																								
HNA-1C012B	C-112 Retrieval Design	125	61	18-Feb-10 A	21-Sep-11	420	-48																								
HNA-1C012C01	C-112 Retrieval Procurement	130	97	17-Jan-11 A	10-Nov-11	384	-2																								
HNA-1C012E1	C-112 Retrieval System Installation - Bid/Award Contract	60	0	01-Nov-10 A	29-Dec-10 A	0	0																								
HNA-1C012E	C-112 Retrieval System Installation	144	63	03-Jan-11 A	23-Sep-11	373	6																								
HNA-1C012F	C-112 Retrieval Startup and Readiness	57	57	01-Aug-11*	19-Oct-11	356	2																								
HNA-1C012G	C-112 Retrieval Operations (MS)	62	62	21-Oct-11	21-Dec-11	518	3																								
HNA-1C012R	C-112 Sample for HHR Decision	107	107	01-Jun-12*	31-Oct-12	246	0																								
HNA-1C012H	C-112 Hard Heel Rmvt Design & Engineering Support	195	195	01-Nov-12	12-Aug-13	246	0																								
HNA-1C012J	C-112 Hard Heel Rmvt Procurement	125	125	03-Jan-12	28-Jun-12	246	0																								
HNA-1C012K	C-112 Hard Heel Rmvt Installation	70	70	03-May-12	12-Aug-12	246	0																								
HNA-1C012M	C-112 Hard Heel Rmvt Operations	40	40	12-Aug-12	08-Oct-12	246	0																								
<b>5.02.02.06.19 C-Farm Infrastructure DST Receiver Tan...</b>		429	42	09-Oct-09 A	24-Aug-11	322	-9																								
HNA-1NFC0B	C-Farm Infrastructure DST Receiver Tank 3 Design	145	0	09-Oct-09 A	22-Apr-11 A	0	0																								
HNA-1NFC0C	C-Farm Infrastructure DST Receiver Tank 3 Procurement	140	0	01-Mar-10 A	13-Jun-11 A	-9	-9																								
HNA-1NFC0D	C-Farm Infrastructure DST Receiver Tank 3 Construction	106	22	17-May-10 A	27-Jul-11	322	-9																								
HNA-1NFC0D...	C-Farm Infrastructure DST Receiver Tank 3 Construction	23	20	14-Feb-11 A	27-Jul-11	322	-9																								
HNA-1NFC0E	C-Farm Infrastructure DST Receiver Tank 3 Startup/Readiness	30	42	26-Oct-10 A	24-Aug-11	322	-9																								
<b>5.02.02.06.20 C-Farm Infrastructure DST Receiver Tan...</b>		343	343	07-Dec-10 A	01-Nov-12	14	0																								
HNA-2NFC0B	C-Farm Infrastructure DST Receiver Tank 4 Design	100	66	07-Dec-10 A	30-Sep-11	14	20																								
HNA-2NFC0BA	C-Farm Infrastructure DST Receiver Tank 4 Design	20	20	03-Oct-11	28-Oct-11	14																									
HNA-2NFC0C1	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	27-Jun-11	25-Jul-11	142	68																								
HNA-2NFC0C3	C-Farm Infrastructure DST Receiver Tank 4 Procurement	20	20	25-Jul-11	22-Aug-11	142																									
HNA-2NFC0C	C-Farm Infrastructure DST Receiver Tank 4 Procurement	80	80	01-May-12*	22-Aug-12	14	0																								
HNA-2NFC0D1	C-Farm Infrastructure DST Receiver Tank 4 Construction - Bid/Award	60	60	31-Oct-11	27-Jan-12	14	0																								
HNA-2NFC0D	C-Farm Infrastructure DST Receiver Tank 4 Construction	165	165	30-Jan-12	20-Sep-12	14	0																								
HNA-2NFC0E	C-Farm Infrastructure DST Receiver Tank 4 Startup/Readiness	70	70	26-Jul-12	01-Nov-12	14	0																								



█ Actual Work   
 █ Critical Remain Work   
 █ Remain Work   
 ◆ Milestone   
 ▬ Baseline Act   
 ▽ Baseline Milestone

**C-Farm Retrieval Critical Path**  
**Current Schedule**  
**June 2011**

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TASK filter: C-Farm - Critical Path.  
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## **Tank Retrievals with Individual Milestones**

### **Tank 241-A-103**

**M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule.** Change package M-45-11-04 switched tank S-102 to A-103 with a completion date of 09/30/2022 for M-045-15.

**M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule.** Updated with A-103 tank and due date of 9/30/22 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: 9/30/22, Status: On Schedule.** Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

#### **Significant Past Accomplishments:**

- Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

#### **Significant Planned Activities in the Next Six 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: TBD (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: TBD Status: On Schedule as part of M-045-84 and 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 Six Months:**

None

#### **Issues:**

None

## **Complete Closure of Double Shell Tanks**

**M-042-00A, Complete closure of all double shell tank farms, Due: TBD, based upon completion of retrieval under M-62-45 plus 5 yrs but no later than 9/30/2052 Status: On Schedule**

### **Significant Past Accomplishments:**

None

### **Significant Planned Actions in the Next Six Months:**

None

### **Issues:**

None

## 242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

### 242-A Campaign strategy:

One (1) cold run (utilizing water only) and two (2) waste processing campaigns were completed in FY2010. No additional campaigns are anticipated in CY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 5, 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. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign planned in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107 AZ-102	AP-104 AP-107	Estimated start June 2012. Anticipates blending AZ-102 high cesium concentration with AP-107 waste. May require two (2) passes to achieve waste volume reduction.
FY12	12-02	AP-107 AZ-102	AP-107	Estimated start August 2012. Anticipates blending AZ-102 high cesium concentration with AP-107 waste. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AW-106	AP-107	Estimated start March 2013. Two (2) passes required.
FY13	13-02	AZ-101 AN-101 AW-106	AP-107	Estimated start September 2013. Two (2) passes required.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

## SST Integrity Assurance

**M-045-91G-T05, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria listed in Table 3.3 in RPP-PLAN-46847, Rev.0, Due: 3/31/2011, Status: Complete 03/11/11 (Letter 11-TF-039). Ecology completed review and sent an approval letter stating ORP had met this milestone on 5/12/2011.**

**M-045-91C, implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0, Due: 9/30/2011, Status: On Schedule**

**M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX, C, T and U Farms), Due: 9/30/2011, Status: On Schedule**

**M-045-91B, Submit a Sampling and Analysis Plan to Ecology for the sampling of sidewall cores from tank 241-A-106 or alternate tank approved by Ecology, Due: 12/30/2011, Status: On Schedule**

**M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2012, Status: On Schedule**

**M-045-91G-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: On Schedule**

**M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: Complete 06/27/11. ORP letter 11-TPD-043 transmitted the test plan to Ecology on June 27, 2011.**

**M-045-91G-T06, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria in M-045-91G-T05, Due: 3/31/2012, 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: 9/30/2012, Status: On Schedule**

**M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On Schedule**

**M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: On Schedule**

**M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: On Schedule.**

**M-045-91F-T02, Provide to Ecology as a HFFACO 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: 7/31/2013, Status: On Schedule, date changed with M-45-11-05 Change Control Form.**

**M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, 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: 10/31/2013, 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 - T04, Due: 12/31/2013, Status: On Schedule**

**M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, 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 alternate tank, Due: 9/30/2014, 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 milestones to date, Due: 7/31/2015, Status: On Schedule**

**M-045-91I, Provide to Ecology an 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: 9/30/2018, Status: On Schedule**

#### **Significant Past Accomplishments:**

- Completed M-45-91D on June 27, 2011 with ORP letter 11-TPD-043.
- Draft of Test Plan required by M-045-91C provided to Ecology on 7/12/11 for informal review and comment. DOQ released, RPP-49674.
- Draft of SAP required by M-045-91B has been provided to Ecology for informal review and comment. DQO released, RPP-49300, Data Quality Objectives for Single-Shell Tank Sidewall Coring Project.
- M-045-91G T01: Second independent review completed and comments incorporated. Internal review has been completed.

- In support of M-045-91G-T02, modeling runs have been completed and development of the AOR is in progress.
- M-045-91F-T04: Leak assessments completed for 241-SX tank farm and document drafted for review by Ecology. The examination of 241-TY and 241-BY farms is underway.

**Significant Planned Actions in the Next Six Months:**

- Complete milestone M-045-91C, implement the DQO process to develop and provide Ecology a Test Plan to evaluate the chemistries as specified in RPP-RPT-43 116. Rev 0, Due: 9/30/2011.
- Complete milestone M-045-91F-T03, plan to provide Ecology, Ionic Conductivity Feasibility Report in September 2011. Due: 5/31/2013.
- M-045-91F-T04: Leak assessments are ongoing with meetings every other week through 2012.
- Complete milestone M-045-91G-T01, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 530, 000 gallon tanks (B, BX, C, T and U Farms), planned submittal to Ecology in August 2011. Due: 9/30/2011.
- Complete milestone M-045-91G-T02, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750, 000 gallon tanks (BY, S, TX, and TY Farms), planned submittal to Ecology in November 2011. Due: 1/31/2012.
- Demonstrate the ability to obtain concrete core samples to support M-045-91B-T01. The demonstration will be performed outside the tank farms at a cold test site.

**Issues:**

None

## In Tank Characterization and Summary

For the period from June 1 – June 30, 2011:

### Accomplishments:

- Completed revision 0 of data quality objective RPP-49049, *Data Quality Objectives for Waste Transfer and Component Closure of the CR Vault Tanks* on June 2, 2011.
- Completed revision 7 of RPP-RPT-43979, *Derivation of Best-Basis Inventory for Tank 241-AY-101 as of April 1, 2011* for the FY11 quarter 3 BBI update on June 7, 2011.
- Completed revision 3 of RPP-RPT-44637, *Derivation of Best-Basis Inventory for Tank 241-AZ-101 as of April 1, 2011* for the FY11 quarter 3 BBI update on June 7, 2011.
- Completed revision 0 of RPP-RPT-49535, *Derivation of Best-Basis Inventory for Tank 241-TX-117 as of April 1, 2011* for the FY11 quarter 3 BBI update on June 13, 2011.
- Completed revision 276 of HNF-EP-0182, *Waste Tank Summary Report for Month Ending March 31, 2011* on June 14, 2011.
- Completed revision 2 of RPP-RPT-46616, *Derivation of Best-Basis Inventory for Tank 241-C-104 as of May 8, 2011* for the FY11 quarter 3 BBI update on June 20, 2011.
- Completed revision 0 of RPP-RPT-49876, *Derivation of Best-Basis Inventory for Tank 241-C-110 as of April 1, 2011* for the FY11 quarter 3 BBI update on June 20, 2011.
- Completed revision 5 of RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of May 8, 2011* for the FY11 quarter 3 BBI update on June 22, 2011.
- Completed revision 277 of HNF-EP-0182, *Waste Tank Summary Report for Month Ending April 30, 2011* on June 28, 2011.
- Completed revision 0 of data quality objective RPP-49674, *Single-Shell Tanks Corrosion Chemistry Data Quality Objectives* on June 29, 2011.

### Planned Action within the next Six Months:

- Tank Sampling
  - Tank 241-C-108 hard heel dissolution samples scheduled for August 2011.
  - Tank 204-AR-TK-1 compatibility samples scheduled for August 2011.
  - Tank 241-AN-106 grab samples for chemistry control October 2011.
  - Tank 241-C-104 off riser sampling scheduled for November 2011.
  - Tank 241-AW-106 evaporator samples scheduled for November 2011.
  - Tank 241-C-108 off riser sampling scheduled for November 2011.
  - Tank 241-AN-101 grab samples for chemistry control November 2011.
- BBI Updates
  - Eight of the nine tanks planned for updates in FY11 Quarter 3 were completed. The ninth tank was deferred until FY11 Quarter 4 when additional information on Pu will be available.

- Data Quality Objectives (DQO)
  - Complete revision 3 of the PCB Management DQO in September 2011.

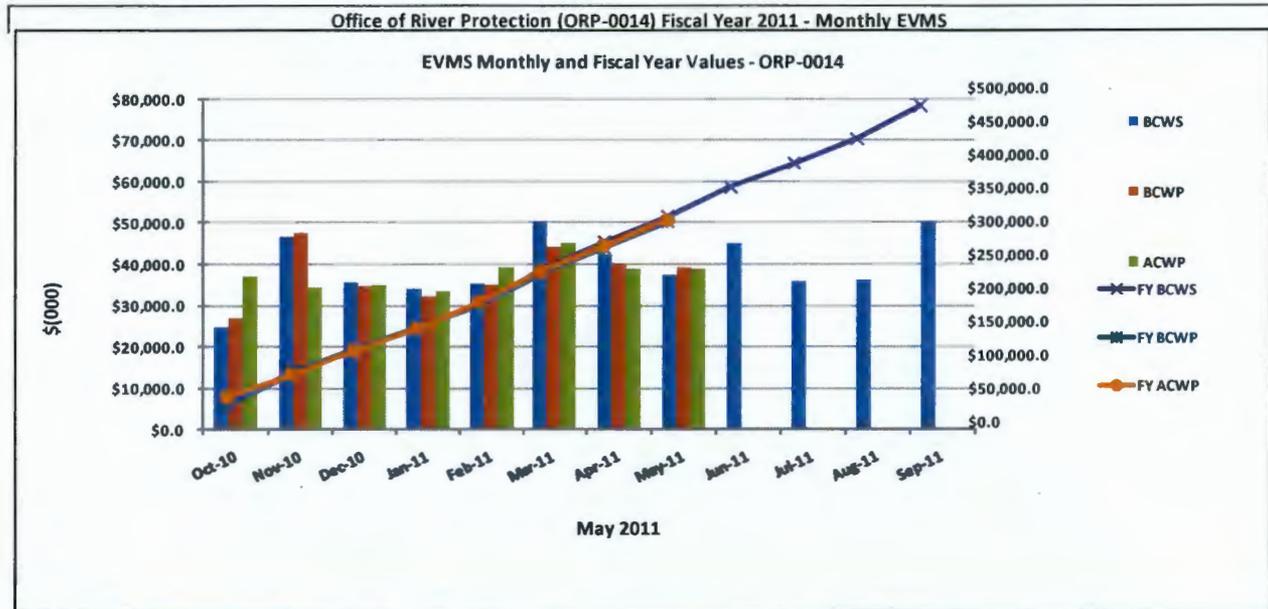
**Issues:**

None

## TANK OPERATIONS CONTRACT (TOC) OVERVIEW

### Project Performance

The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72	\$24,918.8	\$26,782.0	\$37,083.6	1.07	0.72
Nov-10	\$46,528.0	\$47,510.9	\$34,301.0	1.02	1.39	\$71,446.8	\$74,292.9	\$71,384.5	1.04	1.04
Dec-10	\$35,469.5	\$34,558.3	\$35,056.5	0.97	0.99	\$106,916.3	\$108,851.1	\$106,441.0	1.02	1.02
Jan-11	\$33,862.5	\$32,115.2	\$33,376.8	0.95	0.96	\$140,778.8	\$140,966.4	\$139,817.8	1.00	1.01
Feb-11	\$35,157.1	\$34,800.5	\$39,288.6	0.99	0.89	\$175,935.9	\$175,766.8	\$179,106.4	1.00	0.98
Mar-11	\$50,219.3	\$44,202.5	\$45,098.7	0.88	0.98	\$226,155.2	\$219,969.3	\$224,205.1	0.97	0.98
Apr-11	\$42,344.0	\$40,218.8	\$38,772.0	0.95	1.04	\$268,499.2	\$260,188.1	\$262,977.1	0.97	0.99
May-11	\$37,492.6	\$39,240.0	\$38,843.5	1.05	1.01	\$305,991.8	\$299,428.1	\$301,820.6	0.98	0.99
Jun-11	\$44,995.8					\$350,987.6				
Jul-11	\$35,157.1					\$386,797.8				
Aug-11	\$36,303.2					\$423,101.0				
Sep-11	\$50,232.8					\$473,333.8				

CTD	\$1,066,047.4	\$1,052,661.8	\$916,328.1	0.99	1.15
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The favorable current month (CM) schedule variance (SV) is \$1,747k. The SV for the base contract work is \$309k and the Recovery Act (RA) work is \$1,438k. The contributors to the CM SV are shown below:

#### CLIN 1 - Base Operations \$1,676k

- RA-Tank Farms MCS/MPS due to acceleration of the non-waste transfer impacting construction activities for the cross-site demolition and installation test plan and project turnover scoping document development, as well as schedule recover on the software design and procurement.
- RA-Sampling Operations schedule recovery on the core sampling truck replacement fabrications. Delivery is expected in August, four months behind schedule.

- DST Integrity Project schedule recovery on DST encasement pressure checks for the AZ-02A and AN-B pits.
- Waste Management Program treatment and disposal of the SST C-104 Slurry pump as low-level waste instead of transuranic waste as planned.
- Central Engineering acceleration for full deployment of the Smart Plant Foundation.
- Tank Waste Sampling partial schedule recovery from completion of grab samples necessary for tank corrosion control on tanks AP-105 and AY-101.

#### **CLIN 2 – Retrieval and Closure SST's \$1,622k**

- RA-Technology Development schedule recovery on the MARS vacuum system design and fabrication of vacuum components ahead of schedule.
- C-107 Retrieval schedule recovery on the MARS installation and ventilation system/exhauster installation.
- Direct Push Characterization and Sampling schedule recovery on the direct push non-barrier activities for C Farm site 2.
- C-108 Retrieval schedule recovery on hard-heel removal system installation.

#### **CLIN 3 – WFD/Treatment Planning/DST Retrieval/Closure \$403k**

- RA-Condensate Line Upgrade schedule recovery on the AZ-02A jumper installation.

The unfavorable CM schedule variance (SVs) above are partially offset by the following unfavorable variances:

- C-112 Retrieval resource availability delays in system installation and procurement.
- RA-Exhauster Upgrades delays in fabrication of the SY Farm exhauster.
- AW Trailer Complex Phase 2 and Phase 3 delay in the roof refurbishments pending appropriate material application.
- RA-AP Farm Level Rise Modification delays to the AP-02D jumper installation.
- DST to DST Transfer delays in tank AW-106 to AP-104 waste transfer.
- Hose in Hose Transfer Line Disposition removal and disposal.

**The favorable contract to date (CTD) schedule variance (SV) of (\$15,133k) is driven by the following projects:**

#### **CLIN 1 - Base Operations, (\$7,340k)**

- RA-242-A Evaporator Upgrades due to delays in receiving the exhaust skid from the fabricator, which delayed installation
- DST Integrity Project, Delays on the Encasement Pressure Checks in the AZ-01A pit
- RA-Remove Obsolete Equipment due to delays in field work for the AN/AW Exhausters
- RA Sampling Operations due to fabrication delays on core sampling platform due to design changes

#### **CLIN 2 – Retrieval and Closure SST's, (\$5,735k)**

- C-107 Retrieval delays in completing the MARS resulting from addition system improvements and the related turnover documentation
- C-Farm Infrastructure DST Receiver Tank 3 due to the change in designation of DST #3 receiver tank from AY-101 to AN-106 in order to utilize existing slurry distributor, and assembly
- C-108 Retrieval engineering and plant forces resources directed to higher priorities, delaying fabrication of key equipment, and modifications, repairs, and inspections needed to existing equipment prior to installation of new equipment
- SX Farm Infrastructure HVAC resources assigned to higher priority work

**CLIN 3 – WFD/Treatment Planning/DST Retrieval/Closure (\$1,582k)**

- RA-AZ Condensate Line Upgrade due to increased design efforts to support revised seismic qualification for the AZ-02A pit jumper, inability to locate a qualified vendor to NQA-1 standards, delays in procurement/fabrication and delays in fieldwork execution of the AZ Condensate Line Upgrades project due to the ventilation outage in the farm
- AY-102 Tech Maturation Mixing/Sampling Demonstration delays in the master agreement has caused delays in the “Design Services for Removal and Installation of Equipment for AY-102 In-Tank Upgrades” contract
- Waste Reduction Technology Demonstration delayed contract award in FY10 related to extensive legal reviews, additional delays for engineering reviews of procurement specification documents, and delays in approving procurements due to design changes.
- WFD PE Flow Sheet due to deferral of selected work scope into FY12
- RA-DST Feed Delivery Safety Analysis due to a two month delay in releasing the process hazards analysis (PrHA) due to higher priorities

**The favorable contract to date (CTD) cost variance (CV) of \$58,718k is due to the following projects:**

**CLIN 1 – Base Operations, \$25,798k**

- SST Safe Storage & Operations continuous labor and subcontract under runs because work was not performed as planned, partially offset with maintenance overruns
- 222-S Roof Replacement savings due to less material removal, efficient equipment and less hazardous waste
- RA-Remove Obsolete Equipment required fewer hours to prepare engineering documents to support the Demolish AN and AW Exhausters Projects
- Liquidations due to rate true-up for FY09 and FY10
- Facility and Property Management due to saving from unfilled positions and slow ramp-up in FY09
- DST Integrity Project due to efficiencies on the encasement pressure checks by using already open pits to limit the need for crane and rigging and utilizing similar resources from other projects and the AW-104 UT and the AW-106 wall cleaning due to cleaner than expected conditions.

**CLIN 2 – Retrieval and Closure, \$5,925k**

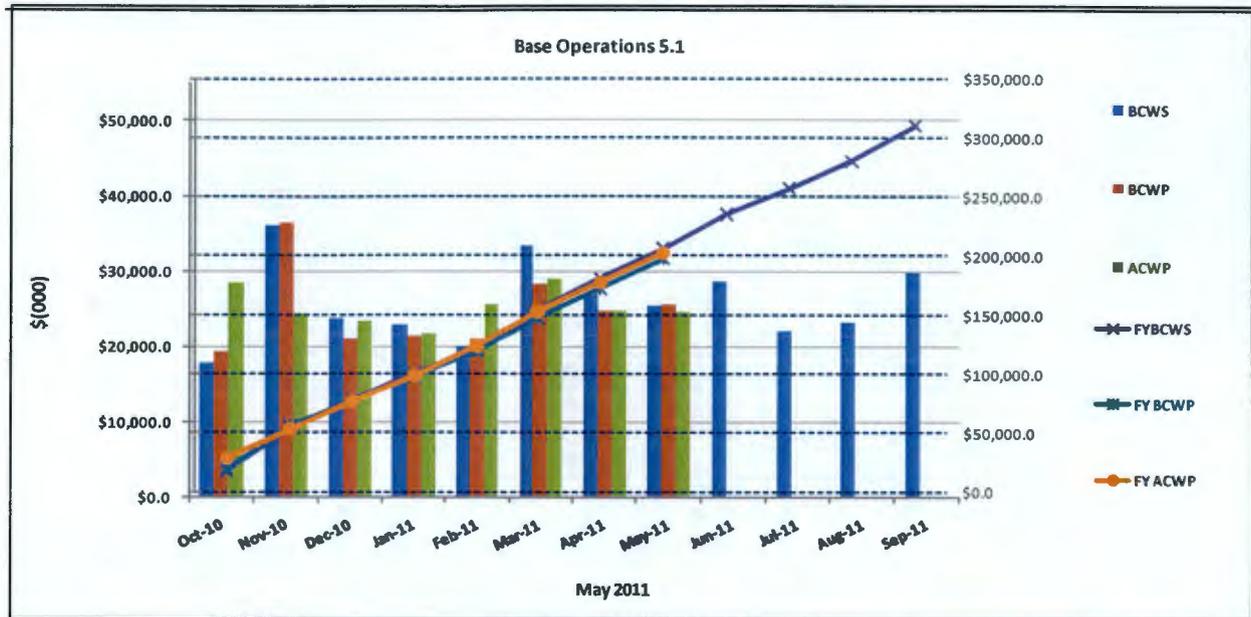
- Interim Barriers characterization analysis being performed by ATL at no cost to the project.
- Hose in Hose Transfer Line disposition efficiencies
- Catch Tank & Pipeline Reporting due to efficiencies gained by using direct labor rather than contract labor
- Interim Barrier efficiencies realized as part of the SGE activities by using multiple depth electrodes for data collection
- RA-Interim Barrier Construction efficiencies due to the barrier material was significantly less than the spray on polyurea
- C-110 Retrieval due to efficiencies captured during C-110 waste retrieval operations because the amount of slurry solids was greater than the model predicted
- C-Farm Infrastructure DST Receiver Tank 3 due to efficiencies realized from changing the designation of the receiver tank from AY-101 to AN-106. Current infrastructure to the AN Farm avoids duplicating efforts to the AY Farms, which saves resources and reduces the amount of materials and equipment to purchase and install
- C-112 Retrieval due to efficiencies in project management and detail design support activities from using previous experience
- A/AX Common Infrastructure due to efficiencies realized from utilizing experienced, specialized engineers, co-location of the team for enhanced collaboration, and the use of relevant C Farm data
- C-108 Retrieval due to efficiencies in the training and mock up activities and acquisition of the samples

- Closure Demonstration due to less direct labor required to complete the Closure Demo Project Management project, Closure Demonstration in-stabilization project, and the diversion box feasibility study

### **5.3 - WFD/Treatment PLNG/DST Retrieval/Closure, \$25,754k**

- WFD PE/Flow Sheet due to minimal contract support until the scope was established
- WFD Technical Baseline saving on technical work being completed with less engineering hours than estimated
- RPP System Plan efficiencies gained through G2 training, HTWOS model improvements and completed tasks in parallel
- DST Feed Delivery saving on staffing and design activities
- AW Cob Isolation efficiencies gained by awarding to an experienced contractor and requiring fewer resources than planned
- RA-SY Transfer Line Upgrades saving gained in the field, reduced duration and resources
- Hanford IHLW Storage Project Support on labor efficiencies
- Integrated Disposal Facility Glass Testing savings associated with executing glass dissolution modeling
- Interim Hanford Storage Facility Project Mgmt due to labor efficiencies
- RA-Secondary Waste Form Testing contractors completing DM-10 testing in parallel, labor efficiencies associated with Ceramicrete and FBSR test plan development
- RA-WFE Specific Site & Regulatory Interfaces contract savings
- RA-SN-278/SN-279 and SN-285/SN-286 Transfer Line due to material and vendor labor efficiencies realized during fabrication of the wall penetrations and refurbished pipe and lower subcontract costs from using less expensive direct engineering resources to complete the design of the SY transfer line upgrades
- Tank Waste Database Management due to the use of fewer and lower cost resources to complete the Tank Waste Information Network Systems (TWINS) database diagnostic activities.
- RA-WFE Application Viability due to efficiencies from completing the SST consolidation pilot-scale testing, test plans, and procedures in parallel; lower rates for subcontract work; and less labor than planned. The work scope is complete.

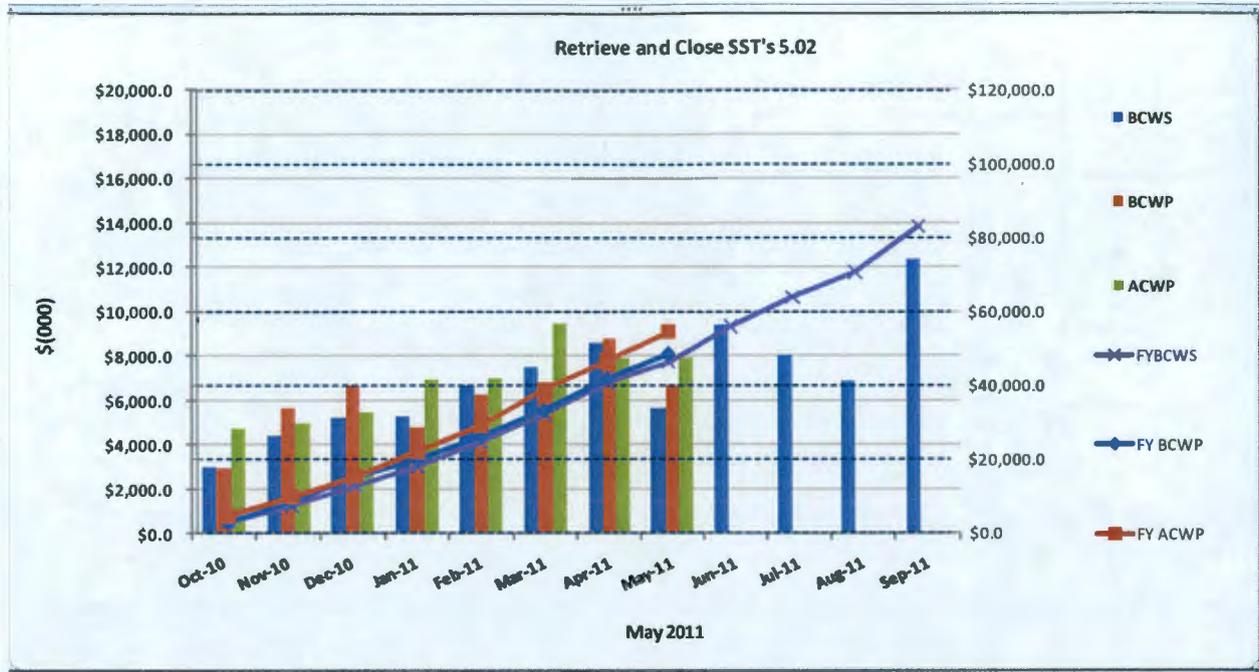
Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68	\$17,777.2	\$19,285.1	\$28,549.6	1.08	0.68
Nov-10	\$36,143.1	\$36,366.3	\$24,452.2	1.01	1.49	\$53,920.3	\$55,651.4	\$53,001.8	1.03	1.05
Dec-10	\$23,775.6	\$20,995.7	\$23,448.8	0.88	0.90	\$77,695.9	\$76,647.1	\$76,450.6	0.99	1.00
Jan-11	\$22,876.6	\$21,370.0	\$21,705.1	0.93	0.98	\$100,572.5	\$98,017.1	\$98,155.7	0.97	1.00
Feb-11	\$20,031.0	\$21,023.0	\$25,607.6	1.05	0.82	\$120,603.5	\$119,040.1	\$123,763.3	0.99	0.96
Mar-11	\$33,329.2	\$28,292.6	\$29,059.6	0.85	0.97	\$153,932.7	\$147,332.7	\$152,822.9	0.96	0.96
Apr-11	\$26,817.9	\$24,728.9	\$24,769.1	0.92	1.00	\$180,750.6	\$172,061.6	\$177,592.0	0.95	0.97
May-11	\$25,422.8	\$25,669.7	\$24,548.6	1.01	1.05	\$206,173.4	\$197,731.3	\$202,140.6	0.96	0.98
Jun-11	\$28,694.9					\$234,868.3				
Jul-11	\$22,061.0					\$256,929.3				
Aug-11	\$23,195.7					\$280,125.0				
Sep-11	\$29,875.5					\$310,000.5				

CTD	\$719,157.2	\$712,064.7	\$686,267.2	0.99	1.04
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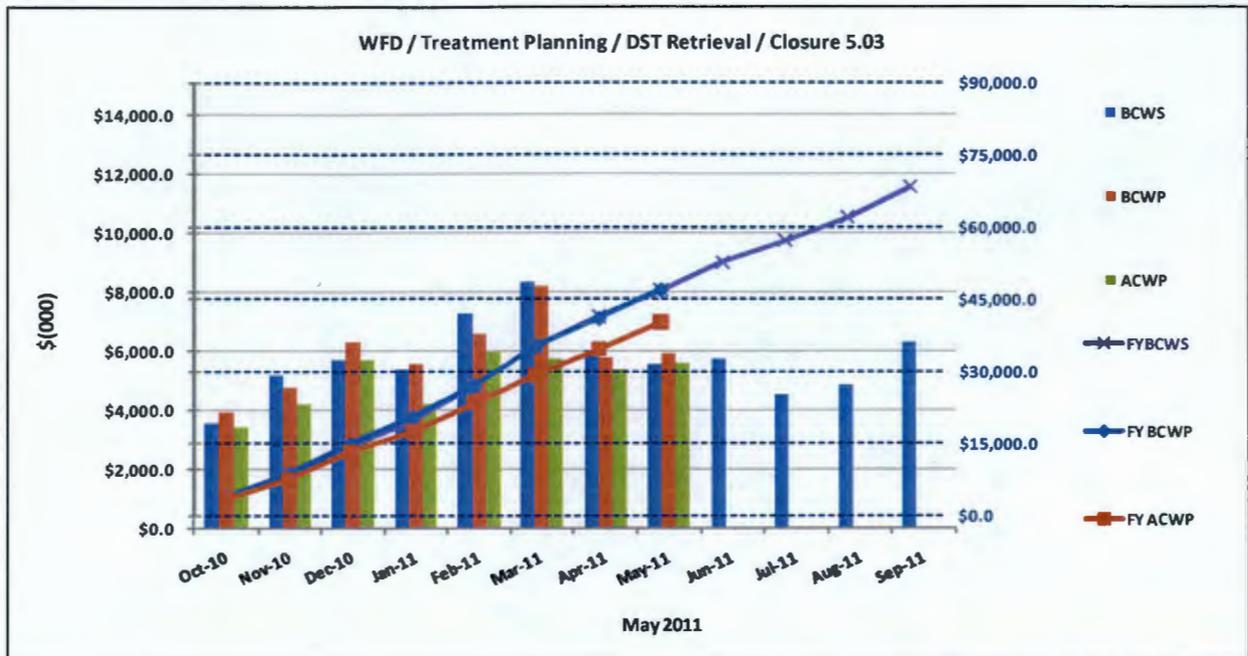
Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62	\$2,991.6	\$2,932.6	\$4,707.6	0.98	0.62
Nov-10	\$4,412.7	\$5,622.7	\$5,006.7	1.27	1.12	\$7,404.3	\$8,555.3	\$9,714.3	1.16	0.88
Dec-10	\$5,209.7	\$6,682.7	\$5,494.0	1.28	1.22	\$12,614.0	\$15,238.0	\$15,208.3	1.21	1.00
Jan-11	\$5,310.0	\$4,820.2	\$6,975.6	0.91	0.69	\$17,924.0	\$20,058.2	\$22,183.9	1.12	0.90
Feb-11	\$6,670.0	\$6,253.2	\$7,006.6	0.94	0.89	\$24,594.0	\$26,311.4	\$29,190.5	1.07	0.90
Mar-11	\$7,513.3	\$6,825.3	\$9,447.6	0.91	0.72	\$32,107.3	\$33,136.7	\$38,638.1	1.03	0.86
Apr-11	\$8,613.5	\$8,766.1	\$7,914.2	1.02	1.11	\$40,720.8	\$41,902.8	\$46,552.3	1.03	0.90
May-11	\$5,638.9	\$6,687.7	\$7,937.1	1.19	0.84	\$46,359.7	\$48,590.5	\$54,489.4	1.05	0.89
Jun-11	\$9,426.5					\$55,786.2				
Jul-11	\$8,022.8					\$63,809.0				
Aug-11	\$6,888.1					\$70,697.1				
Sep-11	\$12,368.8					\$83,065.9				

CTD	\$207,629.7	\$202,943.7	\$197,018.5	0.98	1.03
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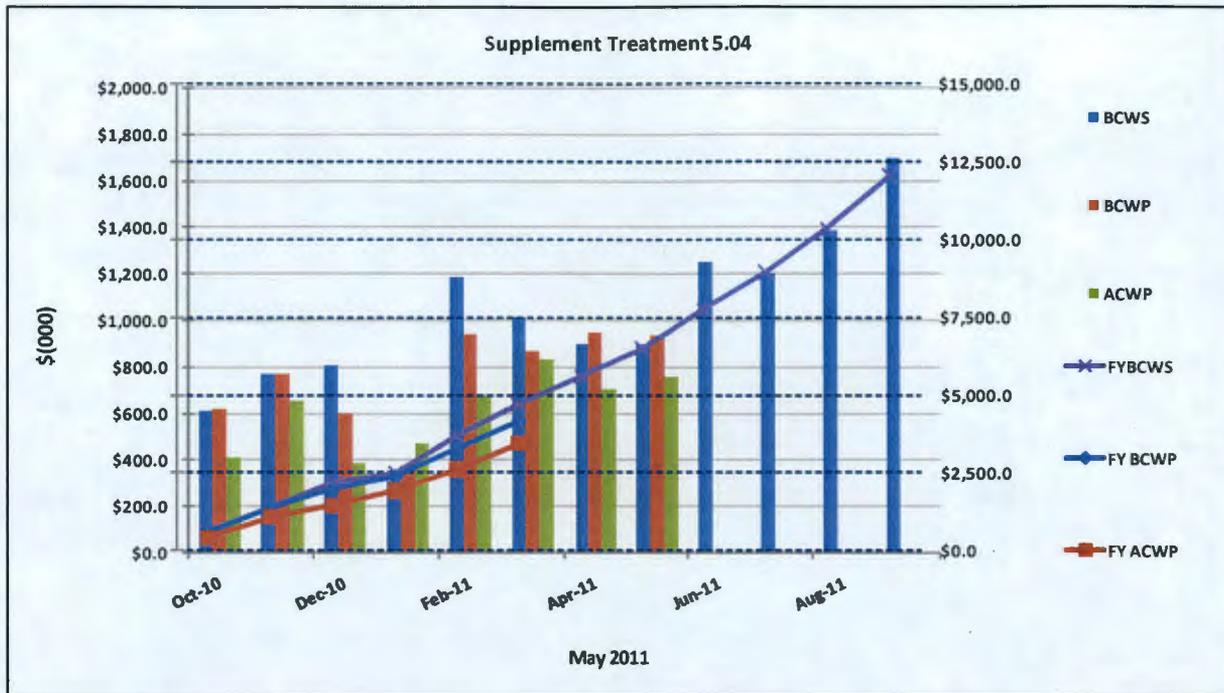
Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16	\$3,540.0	\$3,944.3	\$3,413.8	1.11	1.16
Nov-10	\$5,203.6	\$4,748.8	\$4,184.7	0.91	1.13	\$8,743.6	\$8,693.1	\$7,598.5	0.99	1.14
Dec-10	\$5,677.1	\$6,277.7	\$5,689.4	1.11	1.10	\$14,420.7	\$14,970.8	\$13,287.9	1.04	1.13
Jan-11	\$5,366.1	\$5,557.1	\$4,225.6	1.04	1.32	\$19,786.8	\$20,527.9	\$17,513.5	1.04	1.17
Feb-11	\$7,269.3	\$6,582.6	\$5,993.5	0.91	1.10	\$27,056.1	\$27,110.5	\$23,507.0	1.00	1.15
Mar-11	\$8,362.9	\$8,213.8	\$5,757.0	0.98	1.43	\$35,419.0	\$35,324.3	\$29,264.0	1.00	1.21
Apr-11	\$6,011.0	\$5,778.2	\$5,384.6	0.96	1.07	\$41,430.0	\$41,102.5	\$34,648.6	0.99	1.19
May-11	\$5,533.4	\$5,946.3	\$5,595.9	1.07	1.06	\$46,963.4	\$47,048.8	\$40,244.5	1.00	1.17
Jun-11	\$5,723.0					\$52,686.4				
Jul-11	\$4,520.6					\$57,207.0				
Aug-11	\$4,833.6					\$62,040.6				
Sep-11	\$6,287.7					\$68,328.3				

CTD	\$129,873.6	\$128,704.2	\$102,950.6	0.99	1.25
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Office of River Protection (ORP-0014) Fiscal Year 2011 - Monthly EVMS



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-10	\$610.0	\$619.9	\$412.6	1.02	1.50	\$610.0	\$619.9	\$412.6	1.02	1.50
Nov-10	\$768.6	\$773.1	\$657.3	1.01	1.18	\$1,378.6	\$1,393.0	\$1,069.9	1.01	1.30
Dec-10	\$807.0	\$602.2	\$384.2	0.75	1.57	\$2,185.6	\$1,995.2	\$1,454.1	0.91	1.37
Jan-11	\$309.8	\$368.0	\$470.6	1.19	0.78	\$2,495.4	\$2,363.2	\$1,924.7	0.95	1.23
Feb-11	\$1,186.8	\$941.8	\$680.9	0.79	1.38	\$3,682.2	\$3,305.0	\$2,605.6	0.90	1.27
Mar-11	\$1,013.9	\$870.9	\$834.5	0.86	1.04	\$4,696.1	\$4,175.9	\$3,440.1	0.89	1.21
Apr-11	\$901.6	\$945.5	\$704.0	1.05	1.34	\$5,597.7				
May-11	\$897.5	\$936.3	\$761.9	1.04	1.23	\$6,495.2				
Jun-11	\$1,251.4					\$7,746.6				
Jul-11	\$1,205.8					\$8,952.4				
Aug-11	\$1,385.8					\$10,338.2				
Sep-11	\$1,700.7					\$12,038.9				

CTD	\$9,386.9	\$8,949.3	\$7,707.2	0.95	1.16
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## Acquisition of New Facilities

**M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: On Schedule.** Negotiations are not yet underway.

**M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule**

**M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Negotiations are not yet underway.**

**M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule**

### Significant Past Accomplishments:

None

### Significant Planned Actions in the Next Six Months:

None

### Issues:

None

## Supplemental Treatment and Part B Permit Applications

**M-062-30, Complete negotiations establishing milestones for near term actions, Due:** 10/25/11, Status: Deleted. Change Package M-62-11-01 deleted this milestone and elements required by this milestone may now be considered during the M-62-40 or M-62-45 negotiations. M-62-11-01 notes that no further obligations remain to be performed under M-062-30.

**M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due:** 4/30/2015, Status: On schedule. Negotiations are not yet underway. See "Issues" below for further discussion.

**M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due:** 4/30/2015, Status: On Schedule.

**M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due:** 4/30/2016, Status: On schedule

**M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due:** 4/30/2018, Status: On schedule

**M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due:** 4/30/2021, Status: On schedule

**M-062-45XX, No later than 12/31/2021, 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:** 12/31/2021, Status: On Schedule

**M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due:** 12/30/2022, Status: On schedule

**M-062-21, Annually, submit data that demonstrates operation of the WTP, Due:** 2/28/2023, Status: On Schedule

**M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank Wastes, Due:** 12/31/2047, Status: On Schedule

### Significant Past Accomplishments:

- ORP and Ecology signed change package M-62-11-01, deleting milestone M-62-30.

### Significant Planned Actions in the Next Six Months:

None

### Issues:

None

## System Plan

**M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: On Schedule**

**M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule**

**M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule**

**M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due: 10/31/2014, 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: 4/30/2015, Status: On Schedule**

### **Significant Past Accomplishments:**

TOC life cycle cost estimates were developed for the ten scenarios in System Plan 6 (SP6) using a new model. The 90% draft of SP6 review was completed on July 14, 2011 by ORP, WRPS and Ecology.

### **Significant Planned Actions in the Next Six Months:**

WRPS will track and close comments obtained from the 90% SP6 review via RCRs. The finalized document will be approved by ORP, released by WRPS, and transmitted from ORP to Ecology in time to meet the Oct. 31, 2011 milestone due date.

### **Issues:**

None

## Hanford Waste Treatment and Immobilization Plant (WTP) Project

**M-062-01W, Submit Semi-Annual Project Compliance Report, Due: 7/31/2011, Status: On Schedule**

**M-062-49, Submit a report to Ecology demonstrating that the WTP is designed to accomplish, pretreat 100% of retrievable waste, vitrify 100% of separated hi level waste, WTP LAW with Supplemental treatment can vitrify 100% of separated low level waste stream, Due: 10/31/2011, Status: BNI was provided direction to prepare this report on March 30, 2011, letter 11-WTP-106 Subject: Tri-Party Agreement (TPA) Changes and BNI Support.**

There are about 3,400 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 1,200 craft, 500 non-manual, and about 180 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through June 2011 is 59%, design and engineering is 82% complete, procurement is 62% complete, construction is 56% complete and Start-Up and Commissioning is 13% complete.

The overall WTP Project Schedule Variance (SV) in June was a positive \$6.0M, the Cost Variance (CV) was a positive \$2.7M. The positive cost variance was due to Plant Equipment and Construction control accounts and the schedule variances came primarily from Plant Equipment and Construction control accounts.

Design/Engineering facility percent complete values went down due to a baseline change proposal to align the specific Engineering functions scope with the respective facility that the work scope supported. This BCP resulted in an increase to the facility Engineering budgets, which correspondingly reduced the to-date percent complete values.

Following is the status through the end of June for current project issues:

### Significant Past Accomplishments:

- A permitting strategy for the on-site vessels modifications has been developed jointly and agreed upon between DOE and Ecology

### Significant Planned Actions in the Next Six Months:

- Complete erection of 4<sup>th</sup> tier structural steel (77-ft to 98-ft elevation)
- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete Fabrication and Delivery of C5V Dampers
- Complete Siding of HLW Annex
- Complete installation of the LAW and LAB Autosampler systems
- Install hot cell monorail airlocks in the LAB
- Complete construction of the BOF switchgear facility, cooling tower and fuel oil pumphouse

### Issues:

No significant issues at this time.

## Pretreatment (PT) Facility

The PT Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through June 2011, overall PT Facility percent complete is 48%, engineering is 77% complete, procurement is 45% complete, and construction is 37% complete.

### Significant Past Accomplishments:

In June, overall construction continues to perform well. Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56-ft to 98-ft elevations. Construction completions for June include placement of six 5<sup>th</sup> lift (77-ft to 98-ft elevation) walls and one 56-ft elevation cell wall for a total of 913 CY. Completed initial installation of stick-build pipe above Feed Receipt Process (FRP) Vessel 2C. Completed erection of the first 126-ft, going from west to east, of north & south Tier 4 (77-ft to 98-ft elevation) exterior corridor structural steel.

On-going work includes fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, wall liner plates and sparge tubing in the hot cell. Began excavation for the PT Control Building basemat in July.

Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Design (P&ID) and piping isometric drawings. Issued calculations for ultrafiltration process (UFP) vessels 1A & 1B, and issued drawings for implementation of the vessel mixing issue resolution and other changes. Civil/Structural/Architectural (C/S/A) design completed the design verification matrix for the 77-ft elevation slabs and issued the report, and completed the release of the 98-ft elevation slab design. Plant Design developed the Isometric Drawings for the PSA, UFP, CXP, and PVP vessels. Safety Analysis completed four scheduled safety evaluations.

Evaluation of PVP/PVV system to meet functional requirements during the off-normal condition are ongoing that requires revision of the aerosol generation model; performance testing of HEME and Scrubber to function during off-normal condition; and aerosol testing to determine entrainment factor for the WTP-specific conditions.

Completed planning, and initiated bid for the fabrication and testing for the Large Scale testing (LSIT) for the validation of vessel mixing

Issued Material Requisitions (MR) to purchase charge vessels for the LAW Melter Feed Process (LFP) system, and HEPA housing assemblies for the pneumatic transfer system (PTS) exhausters. Twelve jet pump pairs were released to ship. Completed development of the test spec for the procurement of scrubber PVP-SCB-O2. Completed the award for on-site vessel modifications for 7 vessels.

### Significant Planned Actions in the Next Six Months:

- Completion of Milestones for re-Committed design of the CXP and FRP vessels
- Install hot cell piping PJV header

- Complete nineteen mechanical systems re-committed design packages
- Complete twelve process re-committed design packages
- Fab and deliver ten hot cell equipment frames
- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete 5<sup>th</sup> lift wall placements and make initial placements for the Control Building slab, totaling approximately 3,590 CY of concrete.
- Complete erection of 4<sup>th</sup> tier structural steel (77-ft to 98-ft elevation)
- Award contract for High Efficiency Mist Eliminator (HEME)
- Completion of DOE evaluation of BNI request to weld the vessel heads onto the five Non-Newtonian vessels (UFP-VSL-0002A/B, HLP-VSL-00027A/B, and HLP-VSL-00028).

**Issues:**

- **Vessel Critical Path:** Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the vendor completion has slipped from October to December 2012. The tank vendor is pursuing opportunities to improve the HLP-22 completion date. Ecology approval of the permit packages is required to proceed with the vessel alteration for vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. Ecology is being briefed routinely on the status of vessel design, fabrication and permitting schedule, due to the critical nature of this activity.

## High-Level Waste (HLW) Facility

The HLW Facility will receive the separated high-level waste from the Pretreatment (PT) facility. The concentrate is 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 are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 54% complete overall, with engineering design 85% complete, procurement 67% complete, and construction 35% complete.

### Significant Past Accomplishments:

The HLW Filter Cave build-out remains critical path with a majority of the activities being construction and installation. Installation of support steel to the +8ft elevation continues to support the setting of the C5V, HOP, and PJV filter housings. Fabrication of the final C5V filter housing is complete and all of the units have been delivered to the site. The final PJV filter housing is complete awaiting inspection. The vendor is continuing fabrication of the HOP filter housings and is progressing as planned. Additional completed activities include installation of the 42" C5V Riser and the Rectangular duct that each span over 50ft vertically.

Several concrete pours have taken place during the month of June, including the #2 Melter Cave walls which were some of the most difficult in the building due to their complexity. The pour of the #1 Melter Cave walls will follow this month. Roofing has also commenced on the annex, with the parapet walls being formed and the decking being placed working toward the goal of weathering in by the end of the year.

Electrical and piping commodities are progressing throughout the -21ft elevation including cooling water, cable trays and supports, and fire protection piping. Vendors are also continuing with special coatings, HVAC, and liner plate.

Fabrication of the two 40 Ton Thermo Catalytic Oxidizers have begun and despite early material supply issues, fabrication of the C5V remote-operated dampers has been accelerated to maintain the original scheduled delivery of the first units in early August.

### Significant Planned Actions in the Next Six Months:

- Receive Canister Decontamination Vessels and Canister Rinse Vessel
- Complete Fabrication and Delivery of C5V Dampers
- Complete Siding of Annex
- C5V housing and remote-operated damper installations
- Receive major components of Melters #1 and #2

### Issues:

No significant issues at this time.

## Low-Activity Waste (LAW) Facility

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel canisters that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 65%, engineering is 88% complete, procurement is 84% complete, and construction is 64% complete.

### Significant Past Accomplishments:

LAW secondary offgas treatment system component procurement activities continued. Vendor activities are progressing as scheduled for all offgas system components. Other procurement activities included issuance of a material requisition to purchase cooling jackets for the LAW melter feed process (LFP) system,

Drawings for the LAW container pour handling (LPH) system were issued for modifications to the pour cave equipment to improve container cooling. In addition, the *Enlarged Pour Cave Plan SS [Stainless Steel] Liner Plate and Insulation at Elevation -21'* drawing was issued. Piping isometric drawings for the chilled water (CHW), low-pressure steam (LPS), plant service air (PSA), radioactive liquid waste disposal (RLD), steam condensate water (SCW), and instrument service air (ISA) systems were issued. Instrument data sheets were issued for the foundation fieldbus signal converters for the LAW primary offgas process (LOP) system, control valves for the plant cooling water (PCW) system, and important-to-safety piloted solenoid valves. Committed calculations, *Anchorage Design for LAW Off Gas Caustic Scrubber* and *Gypsum Board Wall Design for LAW and LAB Building*, were issued. Two pressure safety valve calculations were completed for instrument service air (ISA) system confirmation.

BNI completed installation of the jib cranes for the container finishing handling (LFH) system. Construction started installing lighting panels/transformers and buffer storage area shield plates. Thermite welding of rails in the finishing line continued, as well as installation of the fire alarm system, installation of support arms in the process cells, low-voltage electrical (LVE) system equipment, medium-voltage electrical (MVE) equipment, piping for the air-handling unit, fan-coil units and humidifiers for the C2V ventilation system, liner in the pour caves, and container finishing line hoists and hatches. Other normal activities continued, including installation of piping for the Non-Radioactive Liquid Waste Disposal (NLD), Radioactive Liquid Waste Disposal (RLD), glass former reagent (GFR), and plant cooling water (PCW) systems within the LAW, as well as installation of cable tray, pipe and pipe hangers, transformers, electrical grounding, conduit and wiring, instrument enclosures, lighting fixtures, partition walls, and coatings.

Integrated Control Network (ICN) development continued with the review of software for the treated LAW evaporation process (TLP) system, container receipt handling (LRH) system, container export handling (LEH) system, high pressure steam (HPS) system, melter feed process (LFP) system, melter process (LMP) system, secondary offgas/vessel vent process (LVP) system, radioactive liquid waste disposal (RLD) system, and stack discharge monitoring (SDJ) system. Software related to the following systems was accepted: container export handling (LEH) system, primary offgas process (LOP) system, Stack discharge monitoring (SDJ) system, melter feed process (LFP) system, melter process (LMP) system, and high pressure steam (HPS)

system. Discussions were held to determine required safeguards for the LAW container finishing handling system (LFH) dual-rail hoist obstructions and to discuss proposed LAW design modifications to the loss of power controls for the offgas process system exhausters.

**Significant Planned Actions in the Next Six Months:**

- Complete vendor fabrication of the Carbon Bed Adsorber (CBA)
- Complete installation of container handling line shield doors
- Complete installation of the autosampling (ASX) system

**Issues:**

No major issues at this time.

## Analytical Laboratory

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 46%, engineering is 78% complete, procurement is 74% complete, and construction is 63% complete.

### Significant Past Accomplishments:

On-going construction work includes: installing piping for low pressure steam (LPS) system, high pressure steam (HPS) system, steam condensate water (SCW) system, domestic water (DOW) in the C2V/C3V system pits, bulk piping hangers and structural steel for the fireproof slab in the C5 area, and raceway and electrical equipment in the fan room. In the hot cells installation has been progressing on bulk piping/hangers, electrical equipment, ballast enclosures, scheduled conduit, trolley covers/motor assemblies, trolley trough/cable reel, and the monorail/hoist.

Engineering issued piping isometric drawings for the radioactive liquid waste disposal (RLD) system, high pressure steam (HPS) system, low pressure steam (LPS) system, autosampling (ASX) system, and the plant service air (PSA) system. Configuration data indices were issued for DOW, breathing service air (BSA), plant vacuum air (PVA), miscellaneous gases (MXG), low voltage electrical (LVE), medium voltage electrical (MVE), PSA, uninterruptable power electrical (UPE), chill water (CHW), steam condensate water (SCW), and HPS systems. Architectural drawings were also issued for the floor and reflected-ceiling at elevation 0', building section, wall section, miscellaneous detail, interior elevation, door schedule, and room finishes. The structural design verification matrix was also issued.

Procurement issued material requisitions for pressure/differential pressure transmitters, lighting, power distribution and fused panels, transformers, terminal boxes, and HEPA filter housings. Furthermore, 60 pressure gages and 17 bimetallic thermometers were released to ship.

The operations staff received training on ProjectWise which will be utilized to maintain version control and accurate development records. ASX sample bottles, sample carriers, needle extraction and replacement carriers, and an Isolok sample needle was obtained for demonstration purposes. In response to a WRPS question on utilization of Hanford Analytical Services Quality Assurance Requirements Document (HASQARD) and the Environmental Protection Agency's (EPA) SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", WTP has the same source requirements as the HASQARD, and SW-846 will be used for a guide for methods where appropriate. An evaluation is currently being performed of pneumatically testing versus hydrostatically testing permitted dangerous waste lines, and whether ASX procedure tracking system (PTS) HEPA filters can be "CM" rather than "Q" since the rest of the system is "CM".

**Significant Planned Actions in the Next Six Months:**

- Install Drum Packing Fume Hood (Forecast July 2011)
- Install waste drum bogie transfer port (Forecast June 2011)
- Install Autosampler HEPA filter housings (Forecast October 2011)
- Install hot cell monorail airlocks (Forecast August 2011)
- Complete installation of Autosampler System (Milestone date of October 2011)

**Issues:**

No major issues.

## Balance of Facilities (BOF)

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 47%, engineering is 72% complete, procurement is 46% complete, and construction is 61% complete.

### Significant Past Accomplishments:

On-going construction work includes: installing PSA and scheduled conduit at glass former storage facility (GFSF), booster pumps for CHW, concrete pedestal forms and piping for non-radioactive liquid waste disposal (NLD) and DOW, cable terminations in the main switchgear building, valves in the cooling tower, sump/piping and excavating for electrical conduit at the CO<sub>2</sub> tank pad, and connecting DOW system piping to the water treatment facility.

Engineering issued piping isometric drawings for the DOW, PSA, and SCW systems. Completed graded approach to quality confirmation sheet for emergency turbine generator (ETG), ISM meetings for tailoring of IEEE-387 with respect to ETG use, and received DOE's approval of justification for continued design, procurement, and installation (JCDPI) for ETG implementation for safety class emergency power. For the switchgear building foundation drawings were issued for grade beams and slab reinforcing details, and foundation and slab plans at elevation 0'0" and 9'0". General arrangement drawings for sunshades over ammonia reagent (AMR) system enclosures/filters were issued. Termination schedules were issued for plant cooling water (PCW) at the cooler tower facility and for PSA system.

Procurement released 20 pressure gauges and 28 bi-metallic thermometers to ship.

The operations staff continued work on Commission Test Engineer Level II qualification design and implementation, piping and component insulation design requirements, transition from emergency diesel generator (EDG) to ETG. Discussions were held on permit renewal for NLD discharges to treated effluent disposal facility (TEDF), operator positions and qualifications for LBL watch stations, ETG load energization timing and priorities evaluation for PTF/HLW. A walk down of construction completion and work to go for the cooling tower facility was performed.

### Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower (Forecast July 2011)
- Complete construction of fuel oil pumphouse (Forecast September 2011)
- Complete construction of BOF switchgear building (Forecast July 2011)
- Install structural steel for anhydrous ammonia facility (Forecast August 2011)

### Issues:

No major issues.

Waste Treatment Plant Project - Percent Complete Status															
Through June 2011															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning 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	952.8	620.6	65%	229.8	201.3	88%	234.9	197.1	84%	340.0	215.9	64%	148.1	6.3	4%
Analytical Lab	350.7	162.3	46%	54.8	42.5	78%	56.1	41.7	74%	104.6	66.3	63%	135.2	11.9	9%
Balance of Facilities	529.7	246.7	47%	84.4	60.5	72%	81.2	37.5	46%	227.9	139.6	61%	136.1	9.1	7%
High-Level Waste	1,471.4	793.9	54%	341.8	291.0	85%	454.8	305.1	67%	557.1	193.5	35%	117.8	4.3	4%
Pretreatment	2,493.6	1,192.8	48%	696.8	538.7	77%	715.4	319.5	45%	898.9	328.8	37%	182.6	5.9	3%
Shared Services	4,747.0	3,255.2	69%	1,051.3	886.4	84%	467.7	354.6	76%	1,423.0	1,027.6	72%	455.8	112.8	25%
<b>Total WTP w/o UB</b>	<b>10,545.2</b>	<b>6,271.5</b>	<b>59%</b>	<b>2,458.9</b>	<b>2,020.4</b>	<b>82%</b>	<b>2,010.1</b>	<b>1,255.5</b>	<b>62%</b>	<b>3,551.5</b>	<b>1,971.7</b>	<b>56%</b>	<b>1,175.6</b>	<b>150.3</b>	<b>13%</b>
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
<b>Total WTP</b>	<b>10,545.2</b>	<b>6,271.5</b>	<b>59%</b>	<b>2,458.9</b>	<b>2,020.4</b>	<b>82%</b>	<b>2,010.1</b>	<b>1,255.5</b>	<b>62%</b>	<b>3,551.5</b>	<b>1,971.7</b>	<b>56%</b>	<b>1,175.6</b>	<b>150.3</b>	<b>13%</b>

Source: WTP Contract Performance Report - Format 1, Data for June 2011

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BN's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

1

<sup>1</sup> Note: EVMS data is through June 2011.