

Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

February 17, 2011

Office of River Protection

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8:30 a.m. – 11:00 a.m.

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1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon
5	SST Retrieval and Closure - D-00B-01, -02, -03, -04 - TWRWP Status	Chris Kemp / Jeff Lyon
8	WTP - Immobilization Plant Project - D-00A-06, D-00A-17, D-00A-01	Wahed Abdul / Jeff Trent / Gary Olsen / Dan McDonald
10	WTP Pretreatment (PT) Facility - D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
14	High-Level Waste (HLW) Facility - D-00A-20, -21, 02, 03	Jeff Trent / Dan McDonald
17	Low-Activity Waste (LAW) Facility - D-00A-07, -08, -09	Gary Olsen / Dan McDonald
20	Analytical Laboratory (LAB) - D-00A-005	
22	Balance of Facilities (BOF) - D-00A-12	

Fiscal Year 2010 Consent Decree 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
D-00A-18	Complete Structural Steel Erection below Elevation 56' in PT Facility	12/31/09	07/29/09										
D-001-00R-42	Quarterly Report	10/31/09	10/28/09										
D-001-00R-43	Quarterly Report	01/31/10	01/28/10										
D-001-00R-44	Quarterly Report	04/30/10	04/30/10										
D-001-00R-45	Quarterly Report	07/31/10	07/29/10										
*D-00C-01A	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/10	07/26/10										
* - Submittal pursuant to D-00C-01 series satisfies M-062-01 series reporting.													

Fiscal Year 2011 Consent Decree 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
D-00C-02A	Submit to Ecology and Oregon Monthly Summary Reports	11/30/10	11/18/10										
D-00A-20	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/10	01/13/10										
D-00C-02B	Submit to Ecology and Oregon Monthly Summary Reports	12/31/10	12/29/10										
D-00C-02C	Submit to Ecology and Oregon Monthly Summary Reports	01/31/11	01/25/11										
D-00C-01B	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/11	01/25/11										
D-00C-02D	Submit to Ecology and Oregon Monthly Summary Reports	02/28/11		X									
**D-00C-02E	Submit to Ecology and Oregon Monthly Summary Reports	03/31/11		X									

** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.

Fiscal Year 2011 Consent Decree 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
D-00C-01C	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/11		X									

Reports

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On Schedule

D-00C-01A, Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6-Month Period, Due: 1/31/2011, Status: On Schedule

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On Schedule

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On Schedule

SST Retrieval and Closure Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On Schedule

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement at IV(B)(5) of the Consent Decree (CD) DOE must submit to 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. Tanks currently in retrieval status are C-108, C-109, C-110, C-104, and C-111.

D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022,

Due: 9/30/2014, Status: On Schedule. ORP and Ecology began meeting on December 13, 2010, to discuss the selection of the next nine tanks to be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held January 18, 2011. The next meeting is scheduled for February 3, 2011, to discuss 242-A Evaporator.

D-00B-03, Initiate Startup Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On Schedule

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On Schedule

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

Significant Past Accomplishments:

- Completed installation of concrete pad around the C-107 new large riser.
- Initiated Site Preparations for C-107 electrical upgrades and control trailer installation.
- Continued testing of a MARS sluice educator system at Columbia Energy in Pasco and continued testing of the MARS sluicing system at Columbia Test Center (CTC) in Richland.
- Continued design activities for C-112 sluicing system.
- Initiated design activities for C-101 sluicing system.
- Continued construction activities for C-108 equipment installation for Hard Heel Removal.

Significant Planned Activities in the Next Six Months:

- Obtain C-109 heel samples.
- Complete testing of the MARS arm.
- Complete construction/installation of MARs with a sluicing end-effector for C-107 retrieval.
- Initiate construction of C-108 hard heel retrieval system, and start up of retrieval activities.
- Complete C-112 design, initiate long lead procurements and initiate legacy equipment removals.

- Operate hydraulic arm Articulating Mast System (AMS) into C-104 to aid removal of obstruction underneath slurry pump and resume and complete C-104 retrieval.
- Finish testing of the MARS with the vacuum educator.

Issues:

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 ROD is in the Winter of 2011.

TWRWP Status

Tank	TWRWP	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	MRS (per 10/7/10 agreement, to be Modified Sluicing)	-	-
C-102	RPP-22393	Modified Sluicing	MS-ITV	-
C-103	RPP-21895	Retrieval Completed		
C-104	RPP-22393	Modified Sluicing	MS-ITV	-
C-105	RPP-22520	MRS	-	-
C-106		Retrieval Completed		
C-107	RPP-22393	MARS-S		
C-108	RPP-22393	Modified Sluicing	Chemical Dissolution	MS-ITV
C-109	RPP-21895	Modified Sluicing	MS-ITV	-
C-110	RPP-33116	Modified Sluicing	-	-
C-111	RPP-37739	Modified Sluicing	-	-
C-112	RPP-22393	Modified Sluicing	MS-ITV	-

Issues:

- ORP requested a schedule for any future TWRWP changes.
- DOE wants to issue a revised Tank Retrieval Technology Roadmap Document and ORP want to resolve 2nd and 3rd technology discussion.
- ORP wants to reopen discussion on end of retrieval discussions that include cost benefit analysis and how the finish of a retrieval decision occurs.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

D-00A-06, Complete Methods Validations, Due: 12/31/2017, Status: On Schedule

D-00A-17, Hot Start of Waste Treatment Plant, Due: 12/31/2019, Status: On Schedule

D-00A-01, Achieve Initial Plant Operations for WTP, Due: 12/31/2022, Status: On Schedule

There are about 3,150 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 1,050 craft, 510 non-manual, and about 267 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through December 2010 is 57%, design and engineering is 81% complete, procurement is 59% complete and construction is 53% complete.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

The overall WTP Project Schedule Variance (SV) in December was a positive \$7.3M, the Cost Variance (CV) was a negative (\$1.8M). The negative CV came from the Engineering, Plant Equipment and Construction Subcontract accounts. The positive SV came primarily from the Construction and Plant Equipment control accounts.

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

Significant Past Accomplishments:

Low Order Accumulation Model (LOAM) benchmarking tests associated with mixing for Non-Newtonian vessel configurations were completed in December. Analysis of the test results is ongoing and is expected to be completed by the end of February 2011.

A preliminary schedule has been developed for performing Large Scale Integrated Testing associated with vessel mixing. The four phase schedule includes:

- Increment 1 (confirmation of vessel scaling): August 2012
- Increment 2 (demonstration of integrated operations): December 2013
- Increment 3 (support for continuing operations): Date to be determined
- Increment 4 (integrated mixing test facility for WTP and Tank Farms): Date to be determined

The WTP Startup and Commissioning Integration Manager (Senior Executive Service) position was filled in December 2010.

Significant Planned Actions in the Next Six Months:

- There will be a mini Construction Project Review in March 2011
- A full Construction Project Review is scheduled for May 2011
- Complete fabrication of UFP-1A and UFP-1B vessels in the PT
- Complete installation of hot cell crane rails in the PT
- Begin installation of duct, pipe, and support steel in the Filter Cave in the HLW
- Receive Canister Decontamination Vessels in the HLW
- Receive LAW autosampling (ASX) equipment
- Begin installation of LAB autosampling (ASX) equipment
- Award Emergency Diesel Generator (EDG) procurement

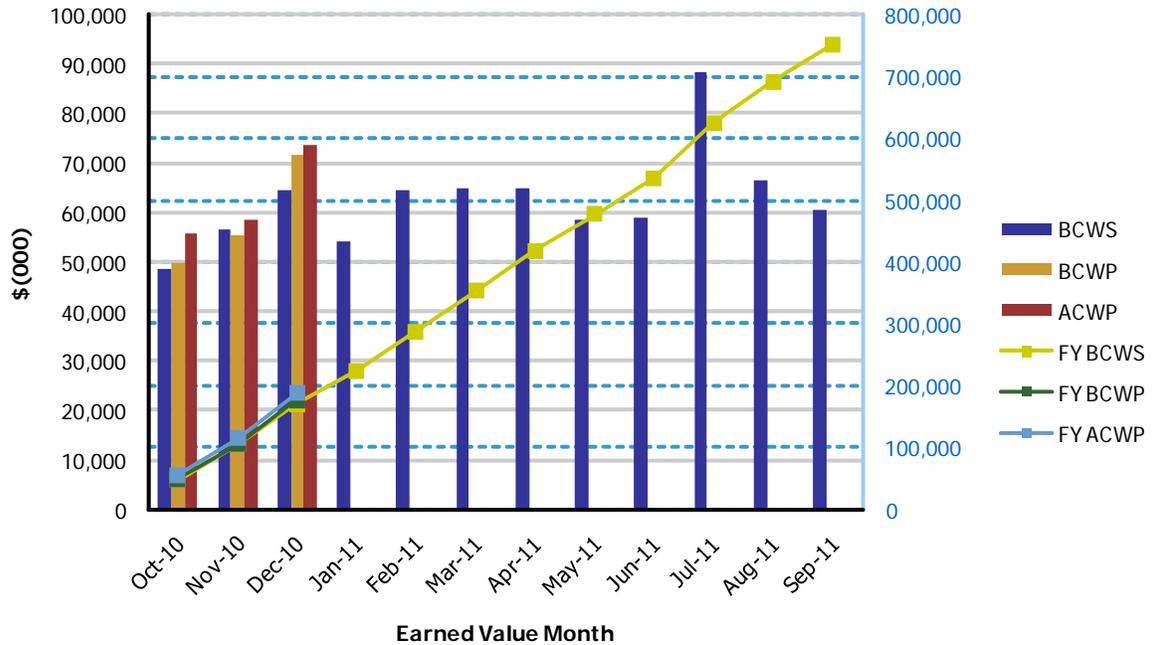
Issues:

No significant issues at this time.

WTP – Fiscal Year To-Date Performance

River Protection
01-D-416 - Waste Treatment Plant (WTP) Project

Monthly 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 2010	\$48,550	\$49,962	\$55,880	1.03	0.89	\$48,550	\$49,962	\$55,880	1.03	0.89
Nov 2010	\$56,608	\$55,427	\$58,449	0.98	0.95	\$105,158	\$105,389	\$114,329	1.00	0.92
Dec 2010	\$64,486	\$71,840	\$73,610	1.11	0.98	\$169,644	\$177,229	\$187,939	1.04	0.94
Jan 2011	\$54,259					\$223,903				
Feb 2011	\$64,495					\$288,399				
Mar 2011	\$64,996					\$353,395				
Apr 2011	\$64,783					\$418,178				
May 2011	\$58,696					\$476,874				
Jun 2011	\$59,092					\$535,966				
Jul 2011	\$88,480					\$624,446				
Aug 2011	\$66,582					\$691,027				
Sep 2011	\$60,343					\$751,371				
PTD	\$5,897,040	\$5,912,789	\$5,945,968	1.00	0.99					

Note: December Data is preliminary and may possibly change.

Pretreatment (PT) Facility

D-00A-19, Complete Elevation 98' Concrete Floor Slab in PT Facility, Due: 12/31/2014,
Status: On Schedule

D-00A-13, Complete Installation of Pretreatment Feed Separation Vessels, Due:
12/31/2015, Status: On Schedule

D-00A-14, PT Facility Construction Substantially Complete, Due: 12/31/2017,
Status: On Schedule

D-00A-15, Start PT Facility Cold Commissioning, Due: 12/31/2018,
Status: On Schedule

D-00A-16, PT Facility Hot Commissioning Complete, Due: 12/31/2019,
Status: On Schedule

Significant Past Accomplishments:

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. Overall facility percent complete is 45%, engineering is 78% complete, procurement is 42% complete, and construction is 33% complete.

All of the technical issues (M3, CXP, Evaporator, etc.) raised by the External Flowsheet review team (EFRT) have been resolved and incorporated in the Baseline in December 2010 through Baseline Change Proposal (BCP) 06-05085. This is a significant achievement to ensure all of the required activities are identified, resources allocated and schedule logic-tied. This increased the PT baseline by ~\$160M and corresponds to a decrease in the overall project completion by 3%. Other changes identified in the forecast update 4 have been incorporated in the baseline in January through BCP 06-05142.

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 77-ft and 98-ft elevation. Construction completions for the month of January include: placement of 3 slabs at 77-ft elevation, a 5th-lift wall (77-ft to 98-ft elevation), and prefabrication of rebar curtains for three walls. A 5-ton construction crane and 102-ton shield door has been set into the hot cell. Fabrication and delivery of engineered pipe sections in the hot cell for Planning Area 21-2 has been completed. Erection started on the 4th tier structural steel on the northwest corner of the 77-ft elevation which is the final elevation to the roof. On-going work includes: installation of structural steel, fireproofing, drain and process piping, cable trays and supports, and HVAC ductwork.

Engineering is implementing the changes from the technical issue resolutions in the P&ID drawings and other documents. In addition, one hundred and ninety seven (197) electrical circuits were designed and one hundred and thirty one (131) electrical circuits were routed.

Procurement released two leak-detection boxes and three chilled water heat exchanger plates and frames to ship. Issued nine embed detail drawings, releasing 120 tons of 77-ft elevation gang sleeve embedments for fabrication.

Significant Planned Actions in the Next Six Months:

- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete planning for the Large Scale testing for the validation of vessel mixing Scale-up
- Issue the revised P&ID's and Calculations for the Pretreatment Vessel Vent Process (PVP) system
- Complete the coupled dynamic analysis for the Waste Feed (FEP) and Treated Law (TLP) evaporators
- Complete fabrication of 2 major Jumper frames
- Complete placement of 5 slabs and 19 walls, totaling about ~2,800 CY
- Erection of 4th tier structural steel (77-ft to 98-ft elevation)
- Release 4 Solenoid Valve Utility Racks to Fabrication

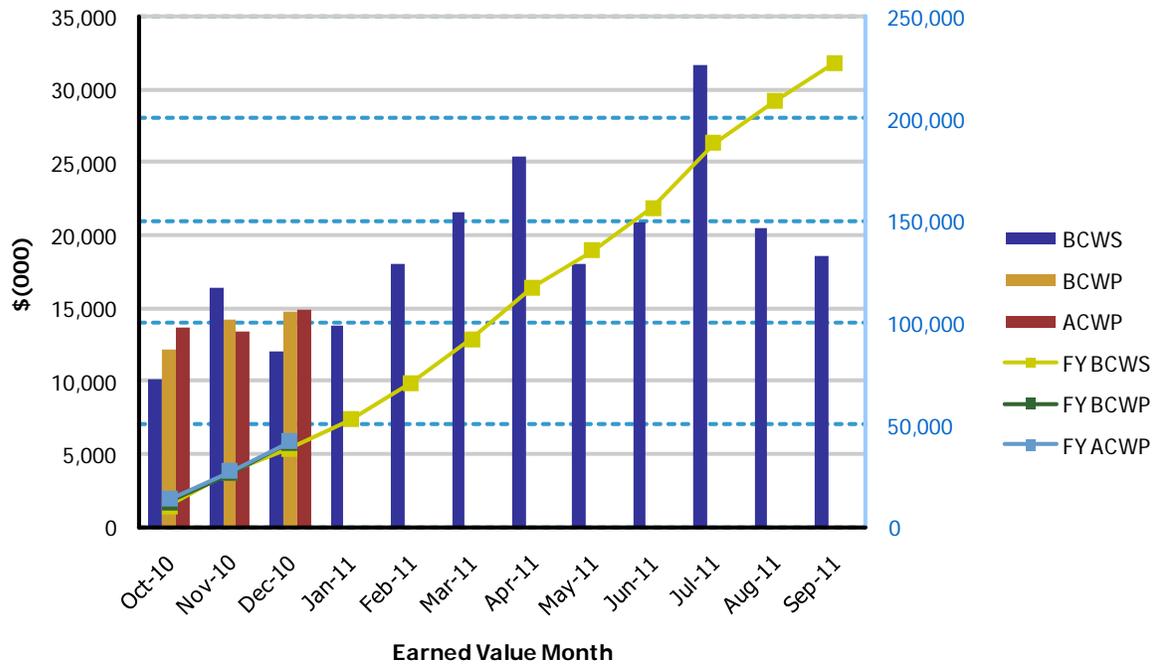
Issues:

Design and fabrication of vessel HLP-22, is the critical path for PT. Re-analysis and design modifications necessary to mitigate increased stress levels of vessels due to seismic and other dynamic load increases continue. The engineering analysis/drawings for HLP-22 are scheduled to be complete by the end of March 2011. Efforts are also ongoing for the analysis of the on-site vessels in order to support the vessel alteration sequence. The permitting strategy for the first group of on-site vessels to be modified has been developed jointly with Ecology. Initial site work and pre-modification preparation work has begun. Schedules for the vessel modifications and permit needs have been provided to Ecology for their resource planning. The current plan is to award the first set of vessels for alteration by the end of April 2011. Permitting strategy for the off-site vessel modifications are under discussions with Ecology for finalizing.

The physical benchmark testing the LOAM for application to the 5 non-Newtonian vessels is complete. The results of the testing are still under evaluation to determine the validity of LOAM to the 5 non-Newtonian vessels.

**River Protection
01-D-16E - Pretreatment Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$10,196	\$12,179	\$13,730	1.19	0.89	\$10,196	\$12,179	\$13,730	1.19	0.89
Nov 2010	\$16,462	\$14,257	\$13,360	0.87	1.07	\$26,658	\$26,436	\$27,090	0.99	0.98
Dec 2010	\$12,060	\$14,788	\$14,869	1.23	0.99	\$38,718	\$41,224	\$41,959	1.06	0.98
Jan 2011	\$13,871					\$52,589				
Feb 2011	\$18,023					\$70,612				
Mar 2011	\$21,614					\$92,226				
Apr 2011	\$25,435					\$117,661				
May 2011	\$17,988					\$135,648				
Jun 2011	\$20,895					\$156,544				
Jul 2011	\$31,672					\$188,215				
Aug 2011	\$20,486					\$208,701				
Sep 2011	\$18,585					\$227,286				
PTD	\$1,094,621	\$1,106,263	\$1,075,440	1.01	1.03					

Note: December Data is preliminary and may possibly change.

High-Level Waste (HLW) Facility

D-00A-20, Complete Construction of Structural Steel to 14' in HLW Facility, Due: 12/31/2010, Status: Complete

D-00A-21, Complete Construction of Structural Steel to 37' in HLW Facility, Due: 12/31/2012, Status: On Schedule

D-00A-02, HLW Facility Construction Substantially Complete, Due: 12/31/2016, Status: On Schedule

D-00A-03, Start HLW Facility Cold Commissioning, Due: 6/30/2018, Status: On Schedule

D-00A-04, HLW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

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 52% complete overall, with engineering design 86% complete, procurement 62% complete, and construction 33% complete.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

Significant Past Accomplishments:

Progress on the build-out of the Filter Cave is continuing as planned. The 60-inch diameter C5V supply header was installed along the west wall in late January. This is the first major component to be installed in the Filter Cave and signals the start of the transition from the procurement phase to the commodity installation phase. The second similar header (for collecting the downstream exhaust of the C5V HEPA filters) will be installed in early February. After these two major components are aligned and welded into their final positions, the installation of duct, pipe, steel, and components throughout the Filter Cave will begin. Seismic qualification testing of the HEPA filter seals will be performed in February and witnessed by Contractor and DOE-WTP staff.

Significant Planned Actions in the Next Six Months:

- Complete Civil, Structural, and Architectural Title II Design Contract Milestone
- Receive Initial Delivery of C5V HEPA Filter Housings
- Receive Canister Decontamination Vessels and Canister Rinse Vessel
- Set Shielded Personnel Access Door RWH-DOOR-20 in the Waste Drum Swabbing and Monitoring Area
- Complete Fabrication of C5V Dampers
- Commence Siding and Roofing of Annex

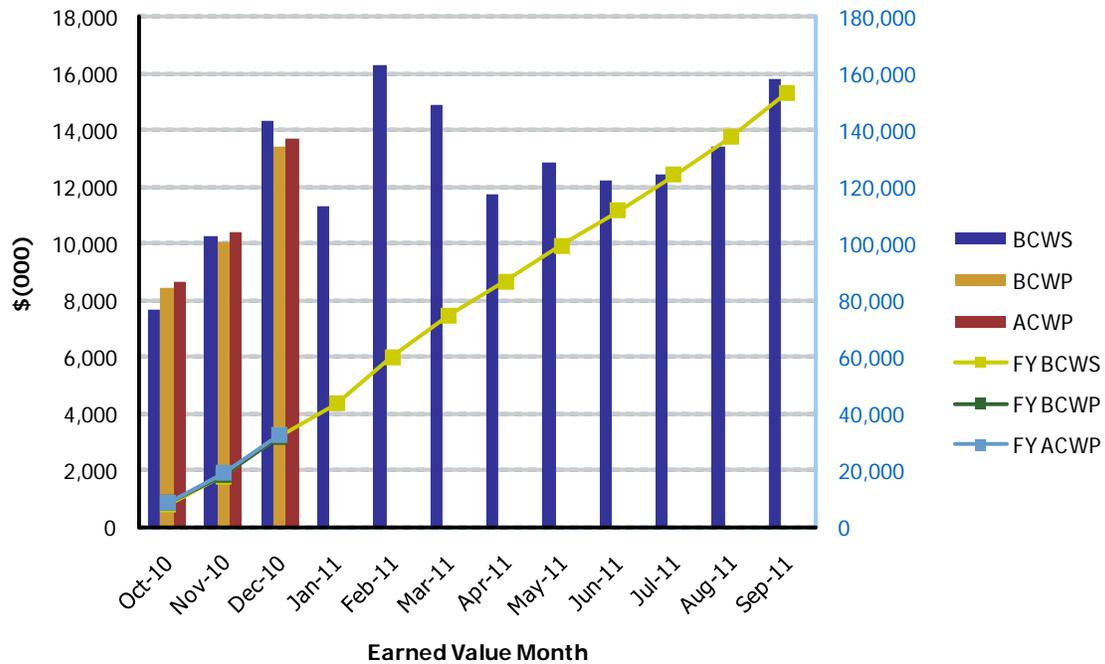
Issues:

Delays in deliveries from the commodity vendors have resulted in increased coordination efforts, schedule re-sequencing and order prioritizations in order to avoid impacting Construction. The Contractor is working to identify process improvements and enhance the interfacing in order to reduce potential future schedule delays.

The fabrication and delivery of HLW vessels is also being monitored closely. Vessel status and progress is reported weekly to ensure completion and delivery prior to the scheduled installation dates.

**River Protection
01-D-16D - High-Level Waste Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$7,653	\$8,413	\$8,615	1.10	0.98	\$7,653	\$8,413	\$8,615	1.10	0.98
Nov 2010	\$10,239	\$10,032	\$10,434	0.98	0.96	\$17,892	\$18,445	\$19,049	1.03	0.97
Dec 2010	\$14,364	\$13,384	\$13,697	0.93	0.98	\$32,256	\$31,829	\$32,746	0.99	0.97
Jan 2011	\$11,294					\$43,550				
Feb 2011	\$16,291					\$59,841				
Mar 2011	\$14,924					\$74,765				
Apr 2011	\$11,756					\$86,521				
May 2011	\$12,848					\$99,369				
Jun 2011	\$12,220					\$111,589				
Jul 2011	\$12,471					\$124,059				
Aug 2011	\$13,392					\$137,451				
Sep 2011	\$15,817					\$153,268				
PTD	\$726,676	\$731,053	\$721,872	1.01	1.01					

Note: December Data is preliminary and may possibly change.

Low-Activity Waste (LAW) Facility

D-00A-07, LAW Facility Construction Substantially Complete, Due: 12/31/2014, Status: On Schedule

D-00A-08, Start LAW Facility Cold Commissioning, Due: 12/31/2018, Status: On Schedule

D-00A-09, LAW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

Significant Past Accomplishments:

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 64%, engineering is 90%, procurement is 80%, and construction is 64%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- Engineering

BNI Engineering issued piping and instrumentation diagrams (P&IDs) for the LAW chilled water (CHW) system, and a committed calculation, *LAW HVAC C2 Equipment Sizing Calculation*. Controls and instrumentation (C&I) data sheets were issued for LAW radiological monitoring instruments, safety process gauges, important-to-safety (ITS) pressure transmitters, and ITS solenoid valves. Engineering also issued control logic diagrams for the LAW C2V and C5V ventilation systems, steam condensate water (SCW) system, high-pressure steam (HPS) system, low-pressure steam (LPS) system, and the plant cooling water (PCW) system, all to support control software development. Controls and instrumentation (C&I) software was developed for the LAW C2V and C5V ventilation systems, the plant cooling water (PCW) system, and the high-pressure steam (HPS) system.

- Procurement

Procurement activities for the LAW facility included the issuance of material requisitions for the cooling jackets for the LAW melter feed process (LFP) system vessels, pressure relief valves, and instrument racks.

- Construction

During January, BNI completed the electrical “authority having jurisdiction” (AHJ) inspection of several doors within the LAW facility, as well as installation of the cooling panels in pour caves 1 and 2, grating in B-cell, and electrical gutter and call buttons at each LAW floor elevation. Construction activities initiated in January included Thermite welding of rails in the south LAW finishing line and installation of two pumps in the primary off-gas process (LOP) system. BNI continued installation the fire alarm system and medium voltage electrical buss ductwork. Other normal activities continued, including installation of piping and hangers, cable tray, conduit and wiring, instrument enclosures, lighting fixtures, partition wall framing and gypsum wallboard, and perimeter sealants.

- Commissioning

Controls and instrumentation (C&I) software was tested for several LAW systems, including the C5V and C2V ventilation, high-pressure steam, and plant cooling water systems. The preparation of a LAW spare parts list, including melter consumables and feed pump components continued.

Significant Planned Actions in the Next Six Months:

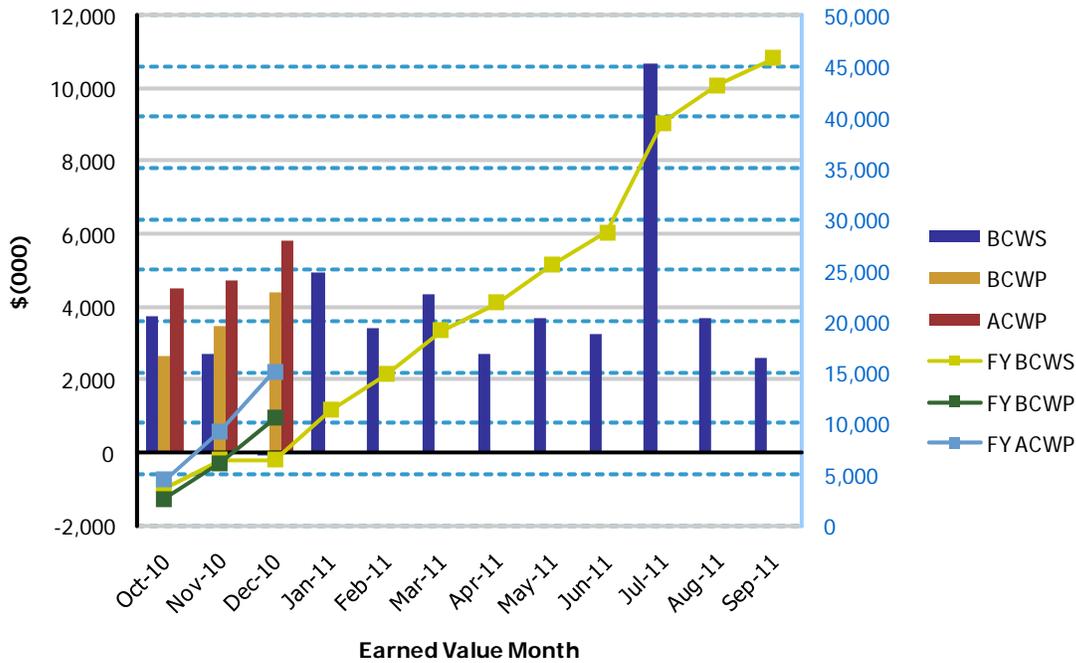
- Complete installation of LAW personnel elevator

Issues:

No major issues.

**River Protection
01-D-16A - Low-Activity Waste Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$3,743	\$2,654	\$4,511	0.71	0.59	\$3,743	\$2,654	\$4,511	0.71	0.59
Nov 2010	\$2,732	\$3,462	\$4,752	1.27	0.73	\$6,475	\$6,116	\$9,263	0.94	0.66
Dec 2010	(\$84)	\$4,424	\$5,823	-52.67	0.76	\$6,391	\$10,540	\$15,086	1.65	0.70
Jan 2011	\$4,947					\$11,338				
Feb 2011	\$3,440					\$14,778				
Mar 2011	\$4,325					\$19,104				
Apr 2011	\$2,725					\$21,828				
May 2011	\$3,698					\$25,526				
Jun 2011	\$3,260					\$28,786				
Jul 2011	\$10,689					\$39,475				
Aug 2011	\$3,690					\$43,165				
Sep 2011	\$2,610					\$45,774				

PTD	\$594,861	\$591,479	\$638,183	0.99	0.93
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Note: December Data is preliminary and may possibly change.

Analytical Laboratory

D-00A-05, LAB Construction Substantially Complete, Due: 12/31/2012, Status: On Schedule

Significant Past Accomplishments:

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 45%, engineering is 81%, procurement is 73%, and construction is 69%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- Engineering

In January, BNI engineering issued control logic diagrams for the stack discharge monitoring (SDJ) system to support software development. A controls and instrumentation (C&I) data sheet was issued for “Q” boundary foundation fieldbus pressure transmitters. In addition, controls and instrumentation (C&I) software was developed for the stack discharge monitoring (SDJ) and C2V ventilation systems.

- Procurement

A material requisition was issued for the purchase of instrument racks.

- Construction

In January, BNI continued installation of the piping in the C2 and C3 drainage pits, electrical raceway and conduit, as well as piping and hangers for the LAB high pressure steam, low pressure steam, and steam condensate systems.

- Commissioning

Controls and instrumentation (C&I) software testing was performed for the LAB C2V ventilation, stack discharge monitoring (SDJ), low voltage electrical (LVE), medium voltage electrical (MVE), and uninterruptible power electrical (UVE) systems.

Significant Planned Actions in the Next Six Months:

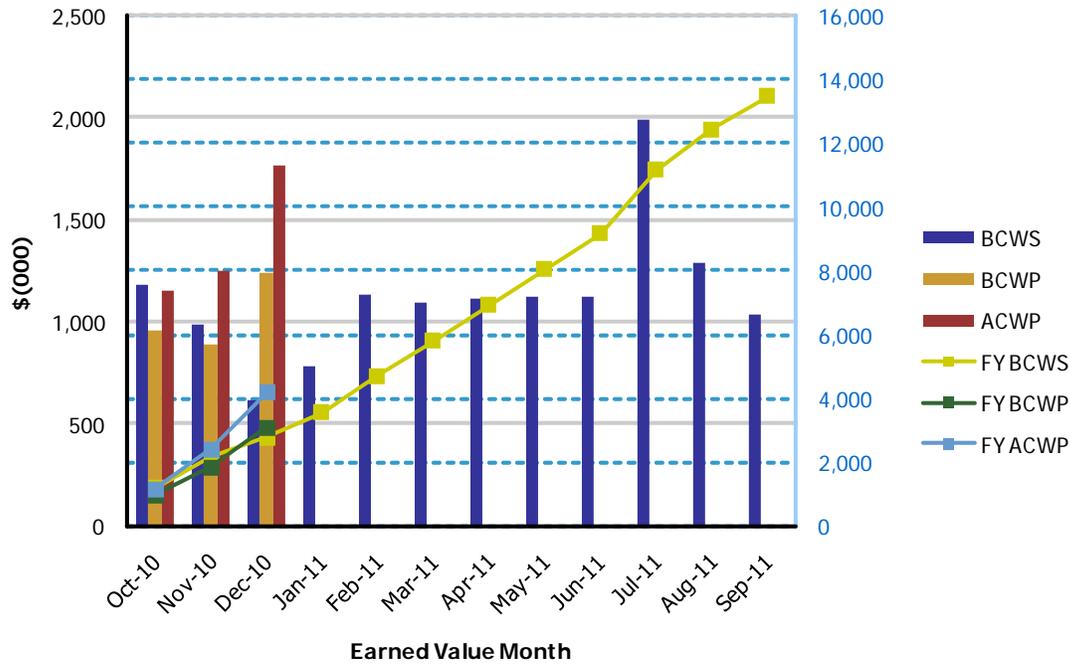
- Install LAB waste drum bogie shield door
- Complete LAB C5 ventilation filter room ceiling design

Issues:

No major issues.

**River Protection
01-D-16B - Analytical Laboratory**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,180	\$954	\$1,152	0.81	0.83	\$1,180	\$954	\$1,152	0.81	0.83
Nov 2010	\$984	\$893	\$1,245	0.91	0.72	\$2,164	\$1,847	\$2,397	0.85	0.77
Dec 2010	\$621	\$1,236	\$1,768	1.99	0.70	\$2,785	\$3,083	\$4,165	1.11	0.74
Jan 2011	\$783					\$3,568				
Feb 2011	\$1,137					\$4,706				
Mar 2011	\$1,096					\$5,802				
Apr 2011	\$1,116					\$6,918				
May 2011	\$1,128					\$8,046				
Jun 2011	\$1,125					\$9,170				
Jul 2011	\$1,986					\$11,156				
Aug 2011	\$1,289					\$12,445				
Sep 2011	\$1,038					\$13,482				

PTD	\$155,999	\$155,470	\$168,843	1.00	0.92
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Note: December Data is preliminary and may possibly change.

Balance of Facilities (BOF)

D-00A-12, Steam Plant Construction Complete, Due: 12/31/2012, Status: On Schedule

Significant Past Accomplishments:

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 46%, engineering is 85%, procurement is 44%, and construction is 60%.

In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.

- Engineering

BNI Engineering issued a system description for the glass former reagent (GFR) system, a control logic diagram for the uninterruptible power electrical (UPE) system, and several controls and instrumentation (C&I) data sheets for pressure/differential pressure/temperature transmitters.

- Procurement

The major focus has been on procurement of the Emergency Diesel Generators (EDGs). A new price quote from the vendor is expected in February. The CO₂ vessel delivery is now expected in February due to weather associated delays. Material requisitions were issued to purchase safety pressure relief valves and instrument racks.

- Construction

BNI construction completed the installation of BOF chilled water system booster pumps in support of the LAW facility. Multiple construction activities continued at the chiller compressor plant (CCP), the glass former storage facility (GFSF), and the water treatment facility. The fire alarm detection system installation continued at the T-52 Warehouse.

- Commissioning

Work continued on the development of a decontamination guide.

Significant Planned Actions in the Next Six Months:

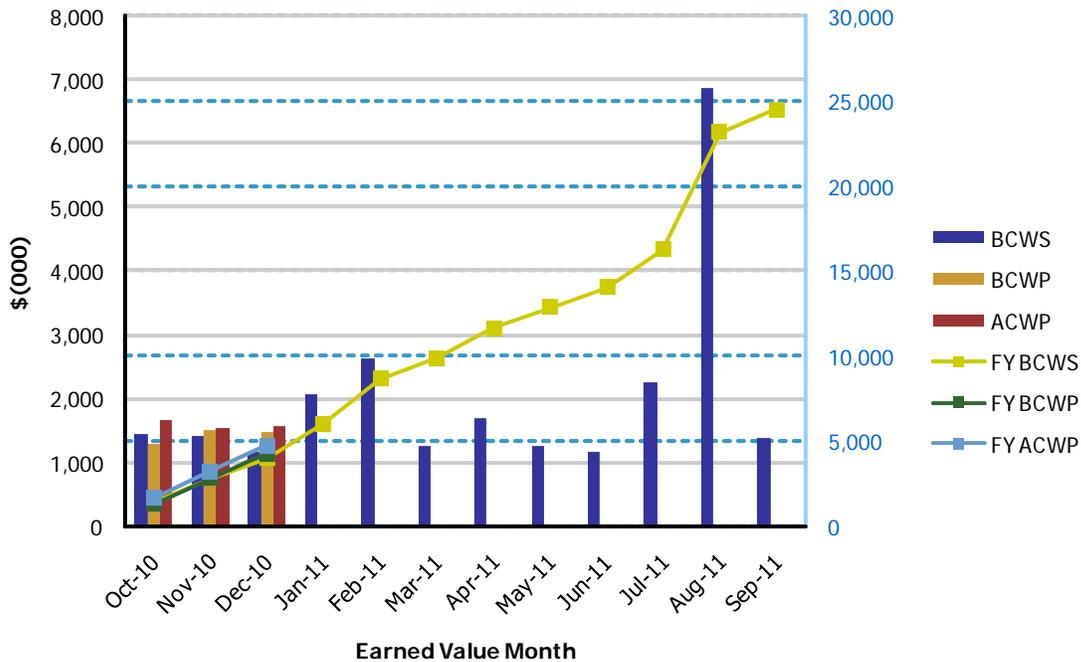
- Award EDG procurement
- Complete concrete placements for BOF Ammonia Facility
- Receive BOF ammonia vaporizer skid
- Complete water treatment facility

Issues:

No major issues.

**River Protection
01-D-16C - Balance of Facilities**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,428	\$1,272	\$1,660	0.89	0.77	\$1,428	\$1,272	\$1,660	0.89	0.77
Nov 2010	\$1,398	\$1,520	\$1,539	1.09	0.99	\$2,826	\$2,792	\$3,199	0.99	0.87
Dec 2010	\$1,150	\$1,475	\$1,558	1.28	0.95	\$3,976	\$4,267	\$4,757	1.07	0.90
Jan 2011	\$2,058					\$6,034				
Feb 2011	\$2,634					\$8,668				
Mar 2011	\$1,243					\$9,911				
Apr 2011	\$1,698					\$11,610				
May 2011	\$1,264					\$12,874				
Jun 2011	\$1,168					\$14,042				
Jul 2011	\$2,239					\$16,281				
Aug 2011	\$6,854					\$23,135				
Sep 2011	\$1,384					\$24,518				

PTD	\$239,169	\$238,633	\$236,671	1.00	1.01
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Note: December Data is preliminary and may possibly change.

Waste Treatment Plant Project - Percent Complete Status												
Through December 2010												
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction 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
Low-Activity Waste	924.8	591.5	64%	219.4	197.3	90%	233.3	187.5	80%	315.8	200.7	64%
Analytical Lab	343.2	155.5	45%	51.5	41.5	81%	56.9	41.3	73%	88.7	61.4	69%
Balance of Facilities	523.6	238.6	46%	69.4	58.7	85%	83.9	37.1	44%	226.6	134.8	60%
High-Level Waste	1,417.5	731.1	52%	328.1	283.1	86%	440.1	273.7	62%	523.4	170.2	33%
Pretreatment	2,446.7	1,106.3	47%	653.9	510.0	78%	708.0	297.2	42%	893.3	293.9	33%
Shared Services	4,768.9	3,089.9	65%	1,081.0	855.7	79%	470.2	330.7	70%	1,405.7	977.8	70%
Total WTP w/o UB	10,424.7	5,912.8	57%	2,403.3	1,946.3	81%	1,992.4	1,167.5	59%	3,453.5	1,838.7	53%
Undistributed Budget	65.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,490.4	5,912.8	56%	2,403.3	1,946.3	81%	1,992.4	1,167.5	59%	3,453.5	1,838.7	53%

Source: WTP Contract Performance Report

Note: In December 2010, the facility percent complete values for Design/Engineering and Construction decreased. This decrease in values was tied to the incorporation of the remaining External Flowsheet Review Team (EFRT) Issues. This resulted in an increase in the facility engineering and construction budgets, which has correspondingly reduced the to-date percent complete values.