

Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

January 25, 2011

Office of River Protection

Consent Decree 08-5085-FVS

Project Summary Report

January 24/25, 2011

10:30 a.m. – 12:00 p.m.

Page	Topic	Leads	Time
1	SST Retrieval and Closure - D-00B-01, -02, -03, -04 - TWRWP Status	Chris Kemp / Jeff Lyon	10:30
4	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon	10:45
7	WTP - Immobilization Plant Project - D-00A-06, D-00A-17, D-00A-01	Wahed Abdul / Jeff Trent / Gary Olsen / Dan McDonald	11:00
10	WTP Pretreatment (PT) Facility D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald	11:15
13	High-Level Waste (HLW) Facility D-00A-20, -21, 02, 03	Jeff Trent / Dan McDonald	11:30
16	Low-Activity Waste (LAW) Facility D-00A-07, -08, -09	Gary Olsen / Dan McDonald	11:40
19	Analytical Laboratory (LAB) D-00A-005		11:45
22	Balance of Facilities (BOF) D-00A-12		11:50

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 next meeting is scheduled for January 18, 2011.

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 Operation Acceptance Testing of the AMS installed in C-104.
- Completed Readiness Activities for restart of C-104 sluicing operations.
- Completed removal of Saltwell pad and riser.
- Completed cutting 55" hole in C-107 dome.
- Completed installation of the new large (47") riser in C-107.
- 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.

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 startup of C-111 retrieval.

- 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	MS-ITV	
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	-

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-01B	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/11		X									
D-00C-01C	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/11											
D-00C-02A	Submit to Ecology and Oregon Monthly Summary Reports	11/30/10	11/18/10										
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		X									
** Future Monthly Reports will be added as necessary to maintain a two-month activity.													
D-00A-20	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/10	01/13/10										

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

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:

A WTP Construction Project review was conducted from November 2-4, 2010. The CPR Team provided an overall positive perspective on the WTP project, and provided 18 preliminary recommendations for sustaining the progress noted in previous CPR reviews. A final report from the CPR Team is expected to be released in early January.

Low Order Accumulation Model (LOAM) benchmarking tests associated with mixing for Non-Newtonian vessel configurations are underway, with all six tests scheduled for completion in December. Analysis of the test results will follow immediately after completion of the tests.

The WTP contractor incorporated BCP (24590-06-05085) into the project baseline. This BCP incorporated the major technical changes associated with vessel mixing, CXP system design, PT secondary steam loop design, Ashfall hazard mitigation, as well as changes to incorporate sequential Operational Readiness Reviews. The incorporation of this BCP has reduced the

facility percent complete values for Design/Engineering and Construction due to the increase in the facility budgets.

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

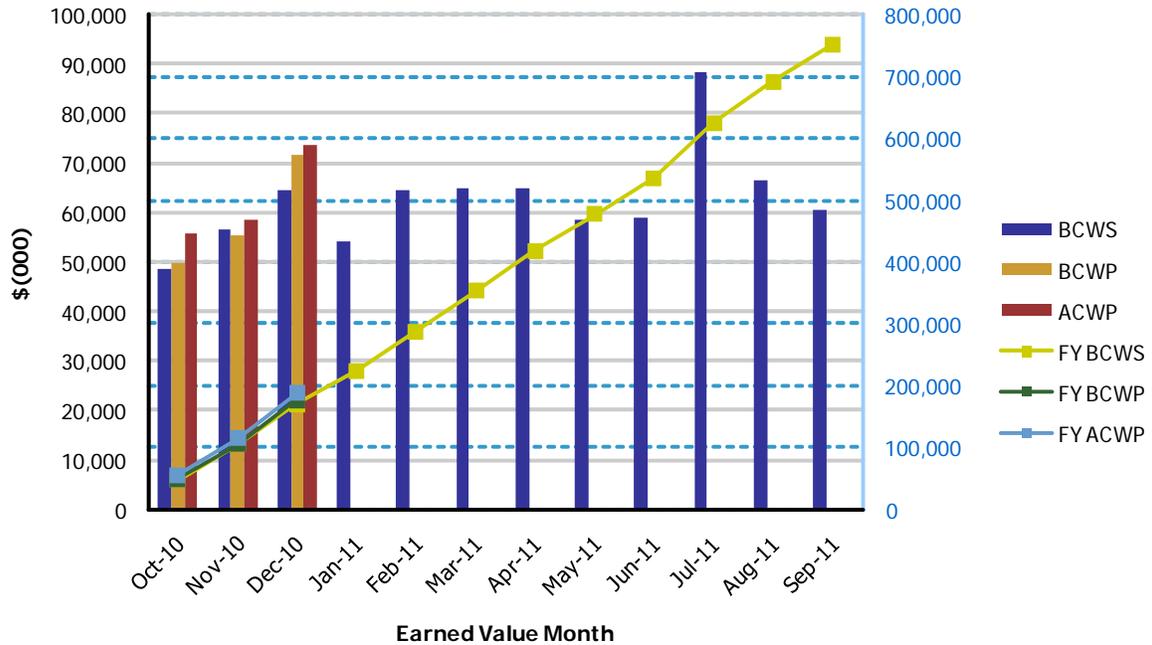
Issues:

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-18, Complete Structural Steel Erection Below 56' in PT Facility, Due: 12/31/2009,
Status: Complete (7/23/2009)

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 47%, engineering/design is 78% complete, procurement is 42% complete and construction is 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.

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 December include: placement of two slabs (7737 and 7739) and completion of a prior incomplete placement (7744) at the 77-ft elevation, and placement of one concrete wall (5-30) from the 77-ft to 98-ft elevation.

The 30-ton hot cell crane and Hot cell Shield door were rigged into the hot cell after significant preparation for lifting it above the 77-ft walls and through the slab opening at 56-ft using the largest crane available at site. 2 more cranes will be installed in the hot-cell in the same manner to aid construction in the hot cell. On-going work includes: Installation of piping, cable trays and supports, ductwork and steel.

Engineering continues to implement the changes from the technical issue resolutions in the P&ID drawings and other documents. Baseline Change Proposals (BCP) incorporating these changes were implemented in December following completion of the DOE review. Three hundred and nine (309) piping isometric drawings were issued for construction. Two purchase orders (PO's) were issued: Spiral Plate Heat Exchanger; and the Ultra Filters. Two PO Revisions were issued, one for Mechanical Agitators, and the other for High Integrity Fans. BNI has completed award of 45 PO's exceeding the Calendar Year 2010 goal of 35 awards. DOE concurred with the BNI completion of the fee milestone activity "Issued for Construction Mechanical Systems (MS) Drawings and specifications for Racks at 56-ft and 77-ft".

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
- Install the 2nd hot cell shield door
- 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)
- Re-Commit MS Design for FRP, CXP, AND PWD
- PO rev – Flex Jumpers (CM-MRA-EWU0-00005) Harness A
- Release 4 Solenoid Valve Utility Racks to Fabrication

Issues:

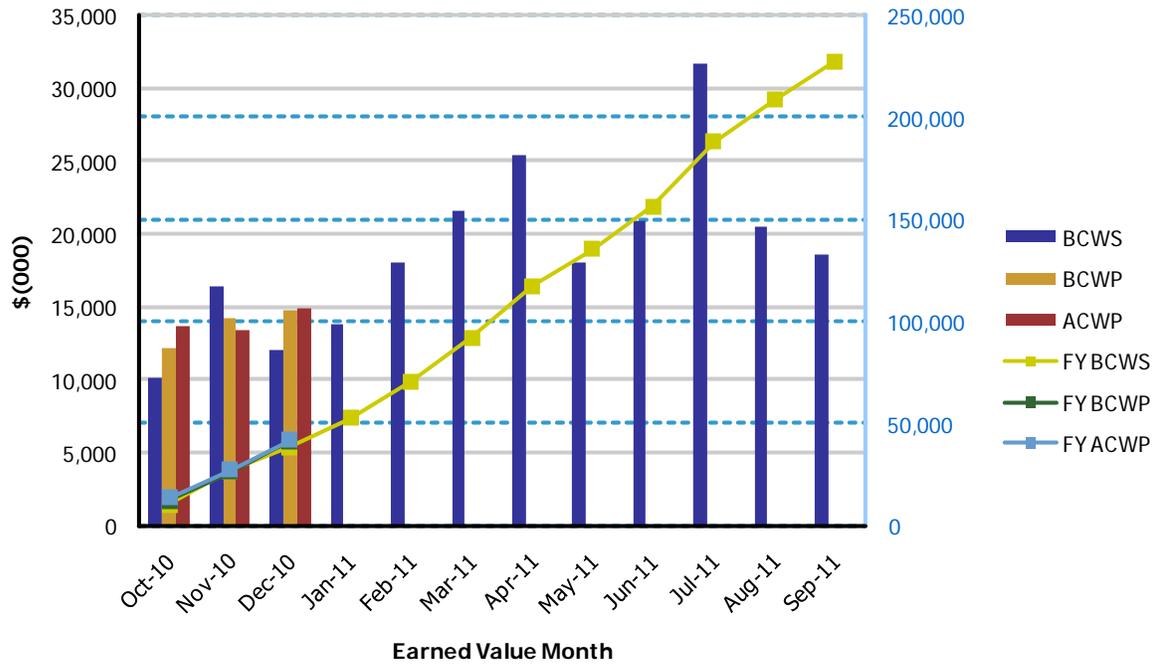
Design and fabrication of vessel HLP-22, is the critical path for PT. Re-analysis and design modifications necessary to mitigate increased stress levels of vessels due to seismic and other dynamic load increases continue. The engineering analysis/drawings for HLP-22 are scheduled to be complete by the end of March 2011. Efforts are also ongoing for the analysis of the on-site vessels in order to support the vessel alteration sequence. Design and analysis has been completed for vessel UFP-62C, and the draft permit package has been provided to the Department of Ecology for review. 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.

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.

Resolution of the major technical issues was originally included in Forecast Update 4 of which DOE reviewed in October. BNI has rolled the technical issues into a BCP which was implemented into the project baseline in December.

**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
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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:

All of the support steel and deck plating for the HEPA filter housings in the Filter Cave was fabricated and delivered to the WTP warehouse early December. In addition, multiple duct and pipe shipments were also completed and delivered in December. The most notable deliveries include the two 60-inch diameter duct segments which serve as the supply and exhaust distribution headers distributing/collecting ventilation airflows to/from the C5V ventilation system HEPA filter housings. The first four remote C5VHEPA filter housings are currently being fabricated by the vendor. Fabrication of the HEPA filter housings for the Melter Offgas (HOP) and Pulse Jet Vent (PJV) systems will begin in February and March 2011. The HEPA filter housings for all three systems are scheduled for delivery to the Project in beginning in February 2011 and the last housing will arrive in August 2011. All delivery dates support the filter cave critical path schedule.

Significant Planned Actions in the Next Six Months:

- Commence installation of duct, pipe, and support steel in the Filter Cave (01/2011)

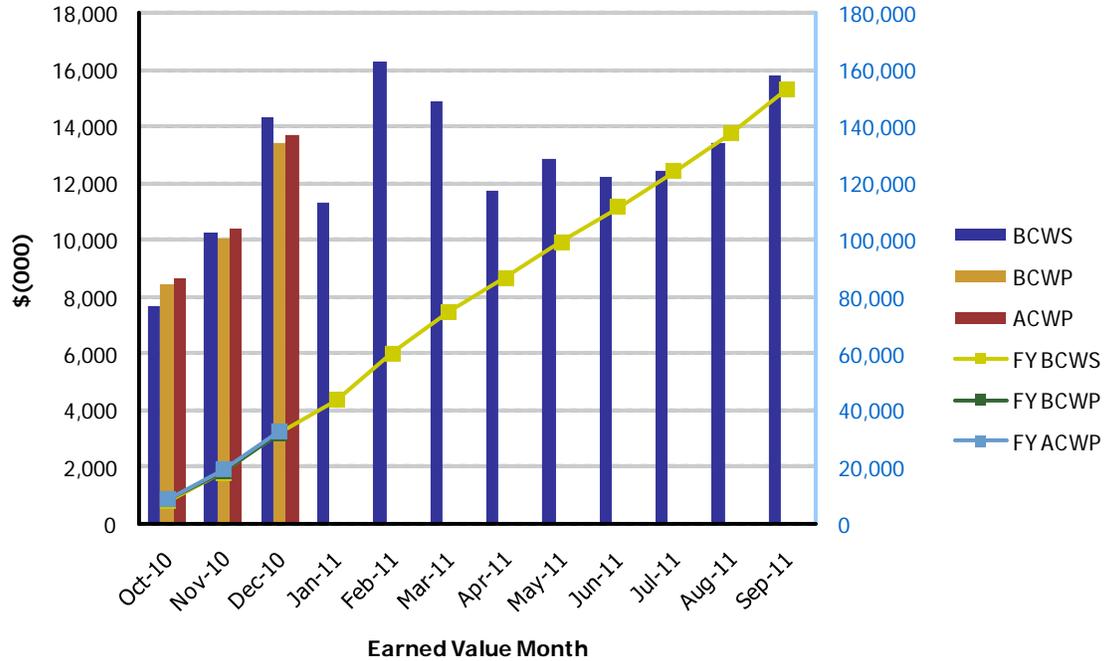
- Complete Civil, Structural, and Architectural Title II Design Contract Milestone (02/2011)
- Receive initial delivery of C5V HEPA Filter Housings (02/2011-03/2011)
- Commence roofing of Annex (03/2011)
- Receive Canister Decontamination Vessels (04/2011)
- Set Shielded Personnel Access Door RWH-DOOR-20 in the Waste Drum Swabbing and Monitoring Area (05/2011)
- Complete fabrication of C5V Dampers (05/2011-07/2011)

Issues:

- The build-out of the Filter Cave is on the critical path schedule for the HLW Facility. The complicated installation of the support steel, housings, dampers, large diameter ducting, and piping requires precise coordination. WTP construction craft and the ventilation subcontractor have developed a detailed (Level-5) schedule that provides the installation sequencing for each pipe spool and each piece of support steel.
- The procurement and fabrication of vessels is also receiving management focus and priority. Procurements that have been on-hold are being revised to incorporate the revised ground motion studies and more formalized quality requirements. Vessel status 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

Engineering issued confirmed calculations for the *LAW Critical Instrument Service Air Backup Bottles Sizing, Design Pressure and Design Temperature Calculation for LFP (LAW Melter Feed Process) System, Design Pressure and Design Temperature Calculation for Chilled Water System, Design Pressure and Design Temperature Calculation for LCP (LAW Concentrate Receipt Process) System, and the Concentrate Receipt Pumps*. Engineering also issued an instrument data sheet for LAW “commercial” pressure transmitters and developed controls and instrumentation (C&I) installation reports for several areas within the LAW facility. Integrated control network software was developed for the autosampling (ASX) system. In addition, controls and instrumentation (C&I) software was developed for several other systems, including ventilation, sodium hydroxide reagent, and environmental monitoring systems.

- Procurement

The two, LAW autosampling units for the autosampling (ASX) system were received in December. The two LAW melters were moved into temporary storage at the site. Other procurement activities included the issuance of material requisitions for the variable area flowmeters and pressure relief valves as well as a material requisition for the purchase of the LAW offgas important-to-safety (ITS) uninterruptible power supply system.

- Construction

During December, BNI completed installation of the personnel elevator doors. Construction began installing pumps for the sodium hydroxide reagent (SHR) system and continued to install cooling panels, the fire alarm system, grating in the B-cell, and the transfer corridor bogie rails. Other normal activities continued such as 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 systems, including ventilation, sodium hydroxide reagent, and environmental monitoring systems.

Significant Planned Actions in the Next Six Months:

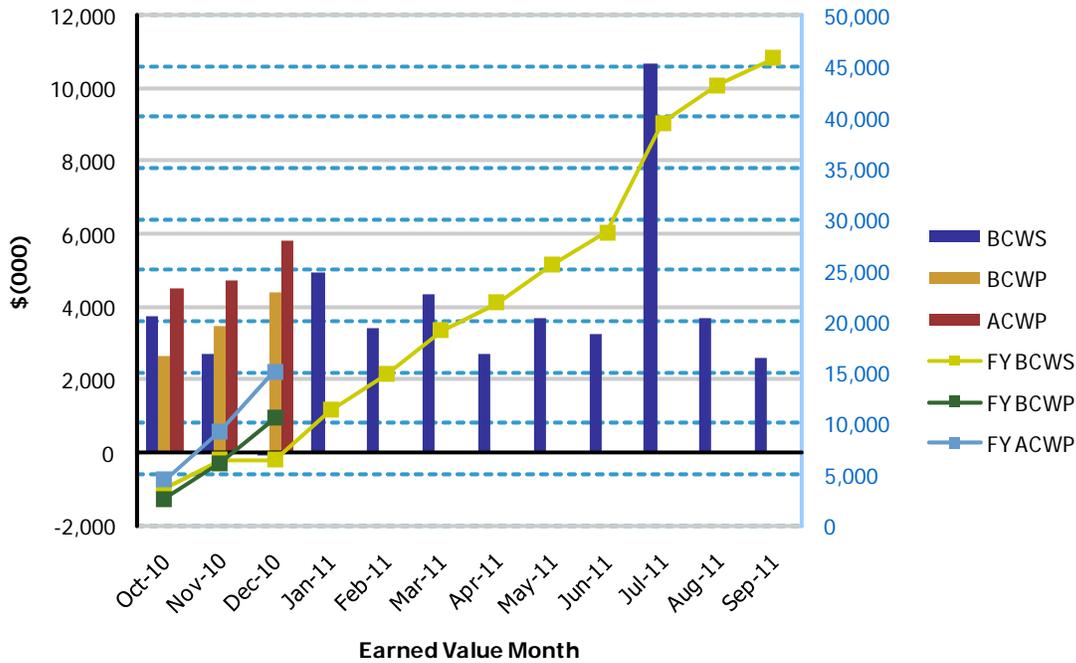
- Complete installation of LAW personnel elevator

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 December BNI engineering issued eight (8) civil, structural, and architectural (CS&A) drawings for the LAB and eight related calculations. In addition controls and instrumentation (C&I) software was developed for the miscellaneous gases (MXG), bottled nitrogen gas (BNG), bottled argon gas (BAG), and bottled helium gas (BHG) systems.

- Procurement

Material requisitions were issued for the purchase of LAB-specific variable area flowmeters and pressure relief valves.

- Construction

In December, BNI began installation of the LAB autosampling equipment. In addition, other construction activities continued, including piping installation in the C2, C3, and C5 drainage pits, electrical raceway, piping and hangers for the chilled water, low pressure steam, and steam condensate systems, conduit, lighting, and electrical equipment.

- Commissioning

Controls and instrumentation (C&I) software testing was performed for the LAB C1V ventilation system and for the miscellaneous gases (MXG), bottled nitrogen gas (BNG), bottled argon gas (BAG), and bottled helium gas (BHG) systems.

Significant Planned Actions in the Next Six Months:

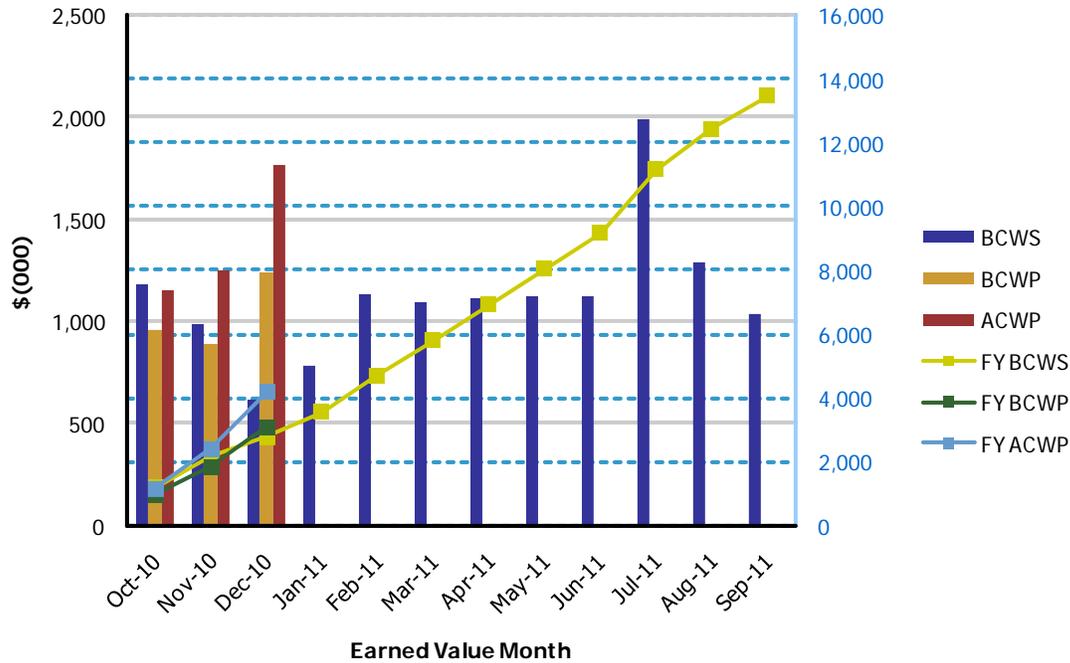
- Install LAB waste drum bogie shield door
- Complete LAB C5 ventilation filter room ceiling design

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					

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 confirmed calculation to support sizing of the relief valves for the demineralized water (DIW) and process service water (PSW) systems. Control logic diagrams were issued for the Diesel Fuel Oil (DFO) system. The integrated safety management evaluation was completed for the emergency diesel generator (EDG) ashfall mitigation design. Software life cycle documents were issued for the standby diesel generator (SDG) fuel tank heater controller and the plant service air (PSA) system.

- Procurement

The major focus has been on procurement of the Emergency Diesel Generators (EDGs). The proposal for this equipment continues under review and analysis prior to awarding a contract. Interactions of BNI Engineering with the ammonia system vaporizer skid vendor continued to ensure approval of the design calculations for this equipment. The CO₂ vessel delivery is now expected in January.

- Construction

BNI construction completed setting two electrical manholes and installing electrical duct bank at the anhydrous ammonia storage facility (AASF). Additional work at the anhydrous ammonia storage facility (AASF) included continued installation of piping commodities. Installation of pressure safety valve instrumentation was initiated for the plant cooling water (PCW) system at the chiller compressor plant (CCP) building. BNI continued multiple construction activities at the chiller compressor plant (CCP), the glass former storage facility (GFSF), the non-dangerous/non-radioactive effluent (NLD) facility, and the water treatment facility.

- Commissioning

Work continued on the development of a decontamination guide.

Significant Planned Actions in the Next Six Months:

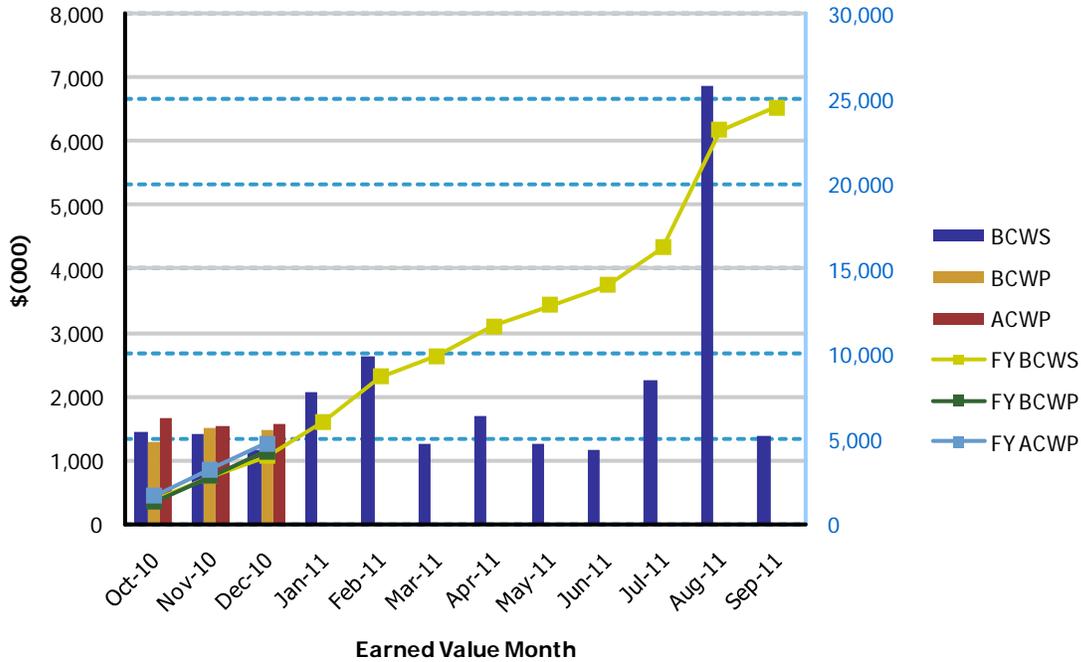
- Award EDG procurement
- Complete concrete placements for BOF Ammonia Facility
- Receive BOF ammonia vaporizer skid
- Complete water treatment facility

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					

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.