

FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

January 2012

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 Project Summary Report
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Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12		On Schedule
**D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/28/12		On Schedule
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12		On Schedule
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		On Schedule
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On Schedule
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On Schedule
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On Schedule
D-00A-12	Steam Plant Construction Complete	12/31/2012		On Schedule
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On Schedule
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	1/31/2013		On Schedule
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	7/31/2013		On Schedule
D-006-00-A1	Provide State of Oregon Notice of Meetings	9/25/2013		On Schedule

Reports

D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31st and July 31st of each year. Status: On Schedule

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-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-107, 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: Complete. ORP and Ecology began meeting in December 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 on August 24, 2011. At this meeting, Ecology provided ORP with the guidance that Ecology believes the requirements of Project B-2 of the Consent Decree have been met.

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:

1. Continued Hard Heel Removal activities by performing water recirculation in C-108.
2. Continued design and procurement for C-109 Hard Heel Removal equipment.
3. Initiated AN-106 pump replacement.
4. Declared readiness for C-112 retrieval
5. Continued design and procurement for C-101 & 102 bulk retrieval systems.

Significant Planned Activities in the Next Six Months:

1. Complete the installation of the C-101 ventilation system and removal of legacy equipment.
2. Complete the installation of the C-102 ventilation system and removal of legacy equipment.
3. Complete C-101 design development for installation of Modified Sluicing System.
4. Complete C-102 design development for installation of Modified Sluicing System.
5. Complete the installation of the C-105 ventilation system and removal of equipment.
6. Complete C-107 bulk retrieval.
7. Complete hard heel retrieval of C-108.
8. Start up of C-112 Modified Sluicing Retrieval System.

9. Complete C-112 bulk retrieval.
10. Commence discussions with Ecology on the retrieval certificate of completion
11. Complete installation of the AN-106 ventilation system.

Issues:

None.

Tank Waste Retrieval Work Plan (TWRWP) Status

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

Significant Accomplishments

None.

Significant Planned Activities in the Next 6 Months:

- ORP, Ecology, and WRPS met on 01/12/12 to discuss Ecology's informal comments on the C-101 TWRWP. Meetings to continue to finalize C-101 TWRWP.

Issues:

None.

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
D-00C-01D	Semi-Annual CD Report	01/31/2012	On schedule
D-00A-06	Complete Methods Validations	12/31/2017	On schedule
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On schedule
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On schedule

The WTP Project currently employs about 3,613 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 961 craft, 513 non-manual, and about 194 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of November 2011, the project was 62 percent complete, design and engineering was 84 percent complete, procurement was 66 percent complete, construction was 59 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in November was a positive \$23.6M; the cost variance was a negative \$26.1M. The cost variance was due to Engineering Design, Construction Crafts, Plant Equipment, and Construction Subcontracts; and the schedule variances primarily were related to Plant Equipment and Plant Material.

Following is the status through the end of November for current project issues.

Significant Past Accomplishments:

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started for PT.
- Completed facility concrete design and design of 35 Hot Cell Jumper Frames in PT.
- Completed 83% of the concrete in the HLW facility with 58ft elevation walls continuing.
- Substantially completed mechanical systems design for the LAW facility.
- Receipt of the ammonia storage vessels at the construction site for BOF

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel in PT (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing in 4ft and 8ft vessels to resolve PT mixing issues.
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells.
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8).
- Complete installation of LAW melter power supplies.
- Complete installation of the LAW autosampler (ASX system).
- Complete installation of the LAB autosampler System.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

Issues:

- PT Facility:

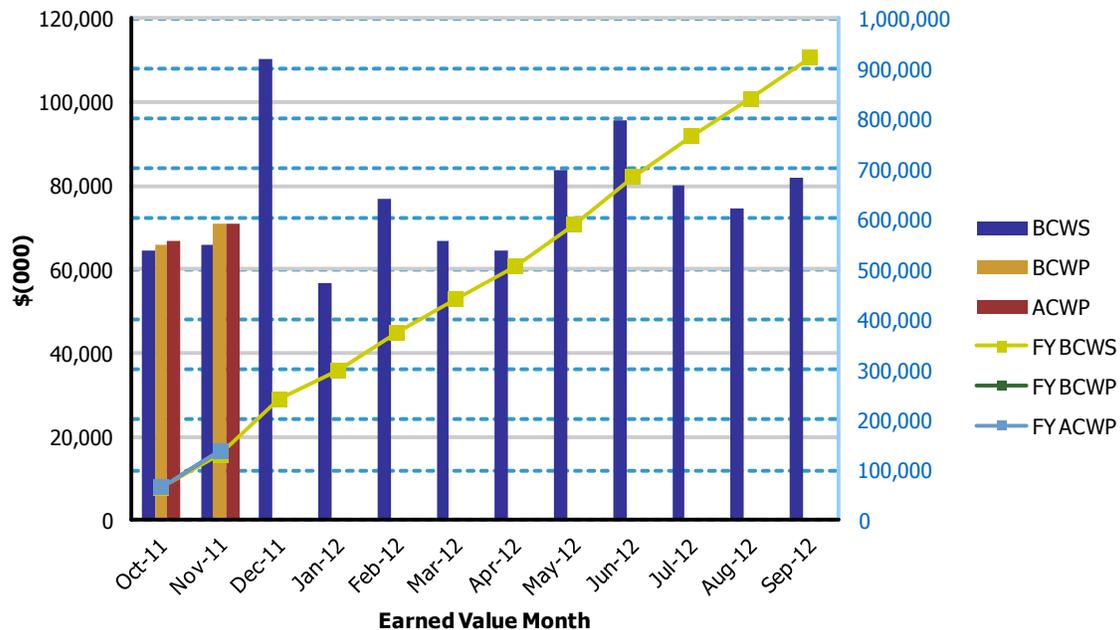
- The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes
- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.
- No significant issues in HLW, LAW, LAB or BOF at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

**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 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$110,204			0.00		\$240,262			0.00	
Jan 2012	\$56,800			0.00		\$297,063			0.00	
Feb 2012	\$76,818			0.00		\$373,881			0.00	
Mar 2012	\$66,635			0.00		\$440,516			0.00	
Apr 2012	\$64,587			0.00		\$505,103			0.00	
May 2012	\$83,766			0.00		\$588,869			0.00	
Jun 2012	\$95,717			0.00		\$684,585			0.00	
Jul 2012	\$80,199			0.00		\$764,785			0.00	
Aug 2012	\$74,342			0.00		\$839,126			0.00	
Sep 2012	\$81,928			0.00		\$921,054			0.00	
PTD	\$6,593,806	\$6,617,448	\$6,643,575	1.00	1.00					

PRETREATMENT (PT) FACILITY

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

The Pretreatment (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 November 2011, the PT Facility is 51 percent complete overall, with engineering design 79 percent complete, procurement 49 percent complete, and construction 41 percent complete.

Significant Past Accomplishments:

On-going work includes installation of rebar for the placement of Control Building basemat and 98ft elevation slabs, fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Completed facility concrete design and completed design of 35 Hot Cell Jumper Frames. Completed Informational testing for validation of the assumption that Newtonian fluid model bounds non-Newtonian fluids. Test results are being evaluated by BNI. Project Execution Plan for the Large Scale Integrated Testing program (LSIT) was updated. Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started at Parsons Facility in Pasco.

BNI is actively working to resolution of the issues raised by DOE regarding vessel material selection. Draft report of the BNI evaluation is scheduled to be available to DOE in January 2012.

Completed as-built measurements of on-site Waste Feed Receipt Process (FRP) vessels, in preparation of the modifications resulted from the changes in the seismic criteria and chemical processes. Successfully completed Verification and Validation (V&V) of Quantitative Risk Analysis (QRA) for Hydrogen in Piping and Ancillary Vessels (HPAV). Completed HAZOP's for the HLW Lag Storage and Feed Blending Process (HLP) and the FRP systems.

PT critical paths primarily flows through the vessel Lag Storage and Feed Blending Process (HLP)-22 installations. The next critical path flows through CXP vessel alterations, followed by the hot cell vertical pumps, integrated pump frames, and rigid electrical jumpers. The tertiary critical path flows through installation of HVAC PVV fans and blowers, followed by completion of the Filter Cave. BNI is updating their plans for the FY 2012 activities based on the reduced funding plan that impacts PT facility. The re-plan (BCP 06-05858) is targeted to be completed by the end of January 2012.

Significant Planned Actions in the Next Six Months:

- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells
- Complete removal of the vessel CXP-001 from the black cell in accordance with the modified CXP system design
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch
- Complete fabrication of Lag Storage and Feed Blending Process (HLP) vessels-27A/B
- Perform LSIT in 4ft and 8ft vessels for resolving mixing issues
- Complete placements for the Control Building basemat, and make initial 98ft elevation slab placements
- Complete remaining mechanical systems re-committed design packages
- Continue erection of 4th tier structural steel (77ft to 98ft elevation)
- Complete resolution of the material selection issues with the vessels

Issues:

- The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes.
- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.

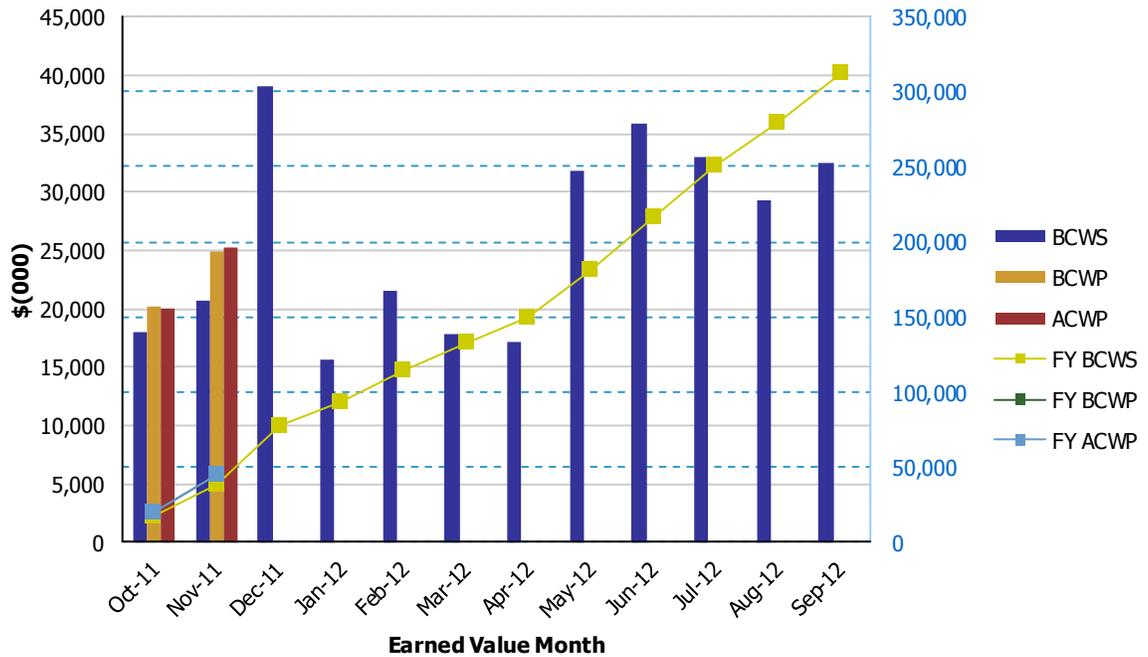
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

**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 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$38,978			0.00		\$77,529			0.00	
Jan 2012	\$15,622			0.00		\$93,150			0.00	
Feb 2012	\$21,466			0.00		\$114,617			0.00	
Mar 2012	\$17,804			0.00		\$132,421			0.00	
Apr 2012	\$17,121			0.00		\$149,542			0.00	
May 2012	\$31,749			0.00		\$181,291			0.00	
Jun 2012	\$35,807			0.00		\$217,098			0.00	
Jul 2012	\$32,977			0.00		\$250,075			0.00	
Aug 2012	\$29,294			0.00		\$279,369			0.00	
Sep 2012	\$32,525			0.00		\$311,895			0.00	

PTD	\$1,281,725	\$1,294,552	\$1,265,837	1.01	1.02
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HIGH-LEVEL WASTE (HLW) FACILITY

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

The High Level Waste (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 57 percent complete overall, with engineering design 86 percent complete, procurement 72 percent complete, and construction 38 percent complete.

Significant Past Accomplishments:

Following re-sequencing of the slab over the Filter Cave and the associated walls, the critical path has shifted to Melter Cell #2 build out. This will increase installation unit rates for commodities in the Filter Cave as it extends the use of overhead cranes for setting steel. The near term critical path activities now include two Melter Cave walls, installation of 4 wall modules, and steel liner plate and insulation on the floor. The submerged bed scrubber and High Efficiency Mist Elimination vessels are the major procurements associated with the build out. Current scheduled set date is May 2013. The vessels are in production and 50% and 60% complete respectively with the last to deliver in January of 2013.

The remaining four of the 32 Dampers have arrived on site, closing a multinational coordination effort to design, fab, and construct dampers for the C5 Ventilation, Melter Offgas, and Pulse Jet Offgas systems. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC), fire protection piping, and liner plate installations. 83% of the concrete has been poured in the facility with 58ft elevation walls continuing.

Significant Planned Actions in the Next Six Months:

- C5V Housing and Remote-Operated Damper Installations
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Primary Offgas Vessel HEME Vessel
- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

Issues:

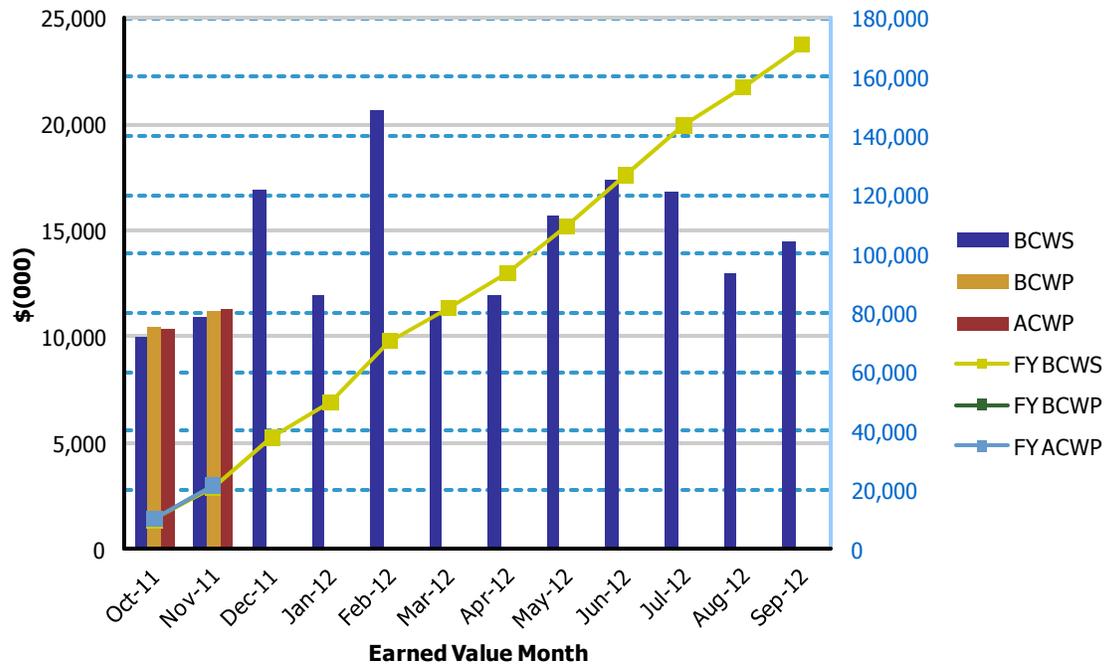
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

**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 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$16,931			0.00		\$37,804			0.00	
Jan 2012	\$11,984			0.00		\$49,787			0.00	
Feb 2012	\$20,661			0.00		\$70,449			0.00	
Mar 2012	\$11,228			0.00		\$81,676			0.00	
Apr 2012	\$12,000			0.00		\$93,676			0.00	
May 2012	\$15,677			0.00		\$109,353			0.00	
Jun 2012	\$17,388			0.00		\$126,741			0.00	
Jul 2012	\$16,812			0.00		\$143,553			0.00	
Aug 2012	\$12,944			0.00		\$156,497			0.00	
Sep 2012	\$14,486			0.00		\$170,982			0.00	
PTD	\$850,367	\$853,287	\$846,721	1.00	1.01					

LOW-ACTIVITY WASTE (LAW) FACILITY

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	On schedule
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On schedule
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On schedule

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 67 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, several instrument data sheets were issued for the LAW Melter Process (LMP) system. Several architectural floor plans and finishing schedules were issued. A committed calculation was issued - *Fatigue Assessment for the LAW Thermal Catalytic Oxidizer (TCO)* for the LAW Secondary Off-gas/Vessel Vent Process (LVP) system. This month BNI Engineering also issued an engineering specification - *Engineering Specification for Exhausters and Hoses*. Piping isometric drawings were issued for the LMP and LVP systems. Piping and Instrumentation Diagrams (P&IDs) were issued for the Low Pressure Steam (LPS), Secondary Off-gas/Vessel Vent Process (LVP), Instrument Service Air (ISA), and Concentrate Receipt Process (LCP) systems. Pipe support drawings were issued for the Chilled Water (CHW) and Radioactive Liquid Waste Disposal (RLD) systems.

Procurement activities for the LAW facility are currently focused on the LVP system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of the LVP system components. Those BNI/vendor interactions progressed well through the month. The contract was awarded for High-Efficiency Particulate Air (HEPA) pre-heaters. Many process monitoring instruments were received during the month including Flow Transmitters (FT), Pressure Differential Transmitters (PDT), and Temperature Transmitters (TT) for the C2V ventilation system; PTs for the Autosampling (ASX), High-Pressure Steam (HPS), ISA, Plant Service Air (PSA), and RLD systems; and PDTs for the C3V and C5V systems.

The primary areas of construction focus continued to be facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. For example, installation of the decontamination manipulators and south finishing line dual-rail hoist for the LFH system continued. Other on-going construction activities during December included installation of the pour cave monorail hoists for the Container Pour Handling (LPH) system, Medium-Voltage Electrical (MVE) transformers, and Low-Voltage Electrical (LVE) equipment.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Finishing Handling (LFH)
- Auto Sampling (ASX)
- Secondary Off-gas/Vessel Vent Process (LVP)

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of auto sampling (ASX) system
- Receive Exhausters for LVP system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system

Issues:

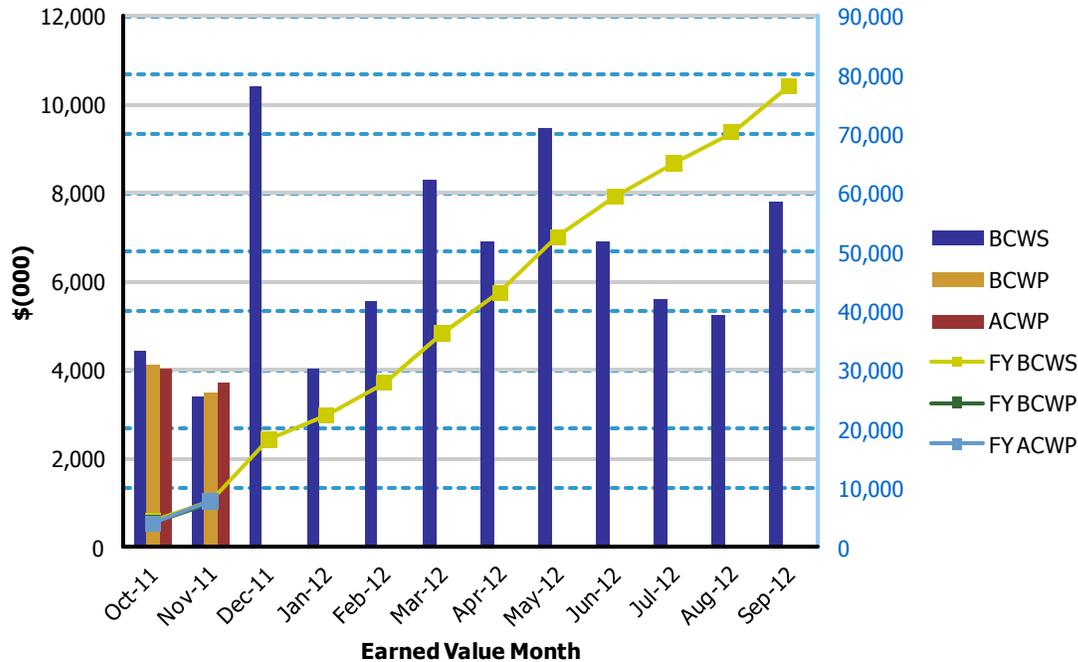
No major issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

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 2011	\$4,415	\$4,115	\$4,014	0.93	1.03	\$4,415	\$4,115	\$4,014	0.93	1.03
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,718	0.98	0.99
Dec 2011	\$10,430			0.00		\$18,249			0.00	
Jan 2012	\$4,017			0.00		\$22,266			0.00	
Feb 2012	\$5,573			0.00		\$27,839			0.00	
Mar 2012	\$8,317			0.00		\$36,155			0.00	
Apr 2012	\$6,920			0.00		\$43,076			0.00	
May 2012	\$9,462			0.00		\$52,538			0.00	
Jun 2012	\$6,892			0.00		\$59,430			0.00	
Jul 2012	\$5,606			0.00		\$65,037			0.00	
Aug 2012	\$5,257			0.00		\$70,294			0.00	
Sep 2012	\$7,821			0.00		\$78,115			0.00	

PTD	\$644,402	\$644,888	\$690,343	1.00	0.93
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ANALYTICAL LABORATORY

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

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 50 percent complete overall, with engineering design 79 percent complete, procurement 75 percent complete, and construction 73 percent complete.

Significant Past Accomplishments:

As construction marches forward towards the substantially complete milestone numerous key procurements have arrived to keep the construction team on schedule. One example of these procurements included several key control valves for the autosampling system. The primary focus still remains on the installation of partition walls and the build out of radiological labs.

The LBL engineering team continues to tackle design changes as needed, and the team is currently engaged in Heating, Ventilation, and Air Conditioning (HVAC) work to accommodate additional heat loads not originally anticipated.

As the facility continues to take shape, procedural and method development is progressing. The LAB team provided comments for consolidation on the Tank Mixing-Sampling Demonstration Plan, which provides a discussion of how the Waste Acceptance Criteria (WAC) sample is to be taken.

Significant Planned Actions in the Next Six Months:

- Install Autosampler HEPA filter housings frames
- Complete installation of Autosampler System
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

Issues:

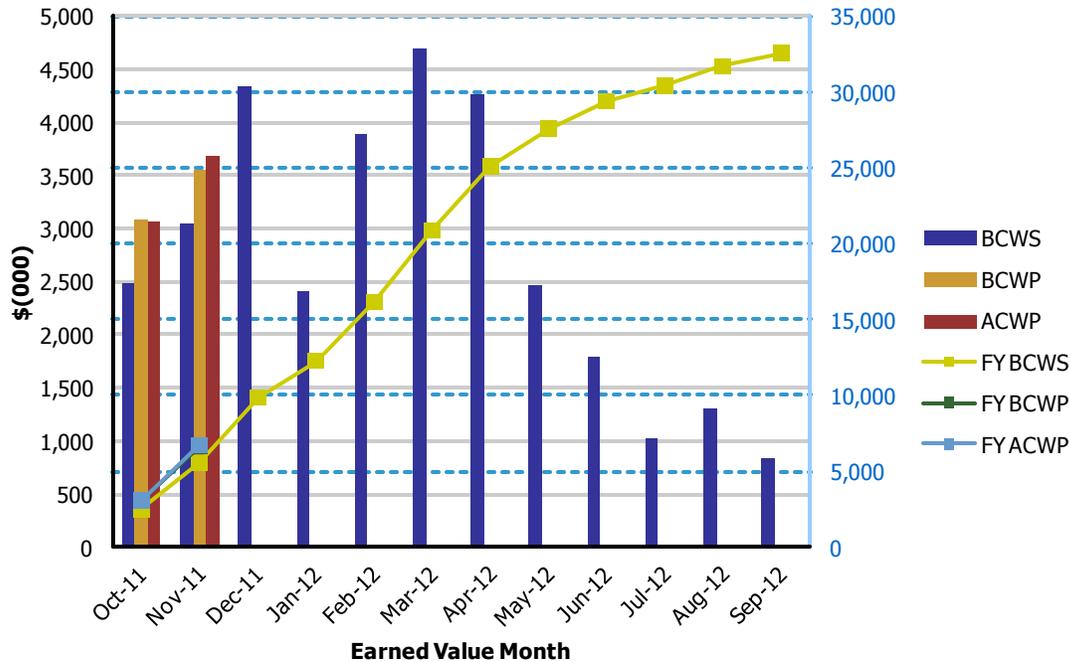
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

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 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,331			0.00		\$9,860			0.00	
Jan 2012	\$2,409			0.00		\$12,269			0.00	
Feb 2012	\$3,893			0.00		\$16,162			0.00	
Mar 2012	\$4,687			0.00		\$20,849			0.00	
Apr 2012	\$4,259			0.00		\$25,108			0.00	
May 2012	\$2,468			0.00		\$27,576			0.00	
Jun 2012	\$1,798			0.00		\$29,373			0.00	
Jul 2012	\$1,024			0.00		\$30,397			0.00	
Aug 2012	\$1,309			0.00		\$31,706			0.00	
Sep 2012	\$838			0.00		\$32,544			0.00	

PTD	\$175,330	\$175,112	\$187,512	1.00	0.93					
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BALANCE OF FACILITIES (BOF)

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

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 47 percent complete overall, with engineering design 69 percent complete, procurement 47 percent complete, and construction 63 percent complete.

Significant Past Accomplishments:

The Defense Nuclear Facility Safety Board (DNFSB) was on site for several days to complete a review of the WTP electrical design with added focus on the Emergency Turbine Generator (ETG). Fortuitously, On Power and Rolls Royce were here for a separate set of meetings, and several of their technical experts were able to attend the DNFSB meeting, and answer several of the technical questions asked by the board.

The receipt of the ammonia storage vessels at the construction site marked a major accomplishment for the BNI engineering and procurement team.

Significant efforts continued to be applied in preparation for the turnover of B87 and B91 this year. Additional walk-downs of the building were performed to evaluate any potential safety concerns, and hazards analysis meetings are beginning to ensure all documentation is updated and in alignment for the facility turnover.

An area of current concern is the impacts of high energy sources, such as a failure of a compressed air storage tank, on safety significant equipment. Engineering has completed the calculations, determined potentially affected equipment, and mitigating strategies are currently being developed.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Receive anhydrous ammonia system

Issues:

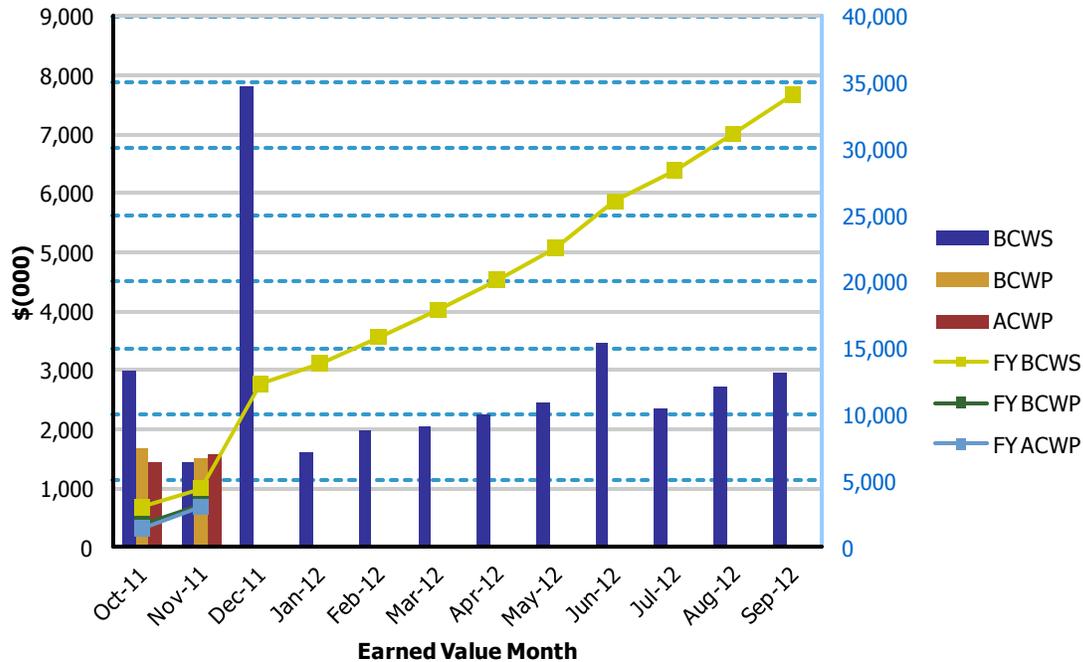
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

**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 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$7,812			0.00		\$12,247			0.00	
Jan 2012	\$1,598			0.00		\$13,845			0.00	
Feb 2012	\$1,964			0.00		\$15,809			0.00	
Mar 2012	\$2,060			0.00		\$17,869			0.00	
Apr 2012	\$2,256			0.00		\$20,126			0.00	
May 2012	\$2,444			0.00		\$22,570			0.00	
Jun 2012	\$3,461			0.00		\$26,031			0.00	
Jul 2012	\$2,356			0.00		\$28,387			0.00	
Aug 2012	\$2,727			0.00		\$31,114			0.00	
Sep 2012	\$2,946			0.00		\$34,060			0.00	
PTD	\$258,277	\$255,321	\$252,075	0.99	1.01					

Waste Treatment Plant Project - Percent Complete Status															
Through November 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	963.8	644.9	67%	231.8	204.8	88%	240.7	205.4	85%	343.2	228.3	67%	148.1	6.5	4%
Analytical Lab	352.4	175.1	50%	55.5	43.6	79%	56.2	42.1	75%	105.4	76.6	73%	135.2	12.6	9%
Balance of Facilities	538.9	255.3	47%	90.8	62.6	69%	81.3	37.9	47%	230.6	144.2	63%	136.1	10.6	8%
High-Level Waste	1,505.6	853.3	57%	348.7	299.1	86%	457.7	330.4	72%	581.4	219.2	38%	117.8	4.5	4%
Pretreatment	2,529.8	1,294.6	51%	728.3	572.6	79%	713.1	346.8	49%	905.8	368.3	41%	182.6	6.8	4%
Shared Services	4,729.3	3,394.3	72%	1,025.3	906.6	88%	472.1	378.2	80%	1,428.0	1,070.8	75%	455.7	121.7	27%
Total WTP w/o UB	10,619.8	6,617.4	62%	2,480.5	2,089.3	84%	2,021.2	1,340.8	66%	3,594.4	2,107.3	59%	1,175.6	162.7	14%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,619.8	6,617.4	62%	2,480.5	2,089.3	84%	2,021.2	1,340.8	66%	3,594.4	2,107.3	59%	1,175.6	162.7	14%

Source: WTP Contract Performance Report - Format 1, Data for November 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 BNI'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.