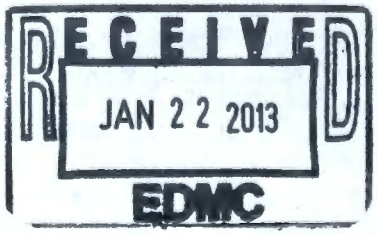
FINAL

Office of River Protection

Consent Decree 08-5085-FVS

Monthly Summary Report

January 2013



Office of River Protection

Consent Decree 08-5085-FVS
Monthly Summary Report
January 2013

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

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	01/25/12	Completed
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12	01/27/12	Completed
D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/29/12	02/22/12	Completed
D-00C-02Q	Submit to Ecology and Oregon Monthly Summary Reports	03/31/12	03/31/12	Completed
D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12	04/26/12	Completed
D-00C-02S	Submit to Ecology and Oregon Monthly Summary Reports	05/31/12	05/29/12	Completed
D-00C-02T	Submit to Ecology and Oregon Monthly Summary Reports	06/30/12	06/29/12	Completed
D-00C-02U	Submit to Ecology and Oregon Monthly Summary Reports	07/31/12	07/26/12	Completed
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12	07/27/12	Completed
D-00C-02V	Submit to Ecology and Oregon Monthly Summary Reports	08/31/12	08/22/12	Completed
D-00C-02W	Submit to Ecology and Oregon Monthly Summary Reports	09/30/12	09/29/12	Completed
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012	10/31/2012	Completed
D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012	11/20/2012	Completed
D-00C-02Z	Submit to Ecology & State of Oregon Monthly Summary Report	12/31/2012	12/26/2012	Completed
D-00C-02AA	Submit to Ecology & State of Oregon Monthly Summary Report	01/31/2013		On-going
**D-00C-02AB	Submit to Ecology & State of Oregon Monthly Summary Report	02/28/2013		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013 Continued				
D-00A-05	LAB Construction Substantially Complete	12/31/2012	12/31/2012	Completed
D-00A-12	Steam Plant Construction Complete	12/31/2012	12/31/2012	Completed
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012	10/24/2012	Completed
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	09/25/2013		On-going
Fiscal Year 2014				
D-006-00-A	Meet Approx. Every 3 Years to Review Requirements of CD	10/25/2013		On-going
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs IN WMA-C	09/30/2014		On-going
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/22/2011	Completed

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-going

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-going

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-going

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-going

SST Retrieval Program

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

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD
Pursuant to the requirement in Section 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.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Completed on 08/24/2011.

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

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

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

Significant Past Accomplishments:

1. Completed start up of the modified sluicing system in C-101 using ERSS.
2. Continued field activities associated with repair of the C-107 high pressure spray water nozzle leak.
3. Continued training for the Fold-Track at the Cold Test Facility for future use at C-110 SST.

Significant Planned Activities in the Next Six Months:

1. Continued field activities for replacement of failed pump for AN-106.
2. Begin start-up of the modified sluicing system in C-102.
3. Complete installation of the MARS-V in C-105.
4. Complete C-107 hard heel retrieval.
5. Submit retrieval certificates of completion for C-104, C-108, and C-109 to Ecology.
6. Begin start-up of hard heel retrieval in C-110 using the Fold-Track.

Issues:

1. DOE-ORP has delayed dome cut activities using the water/abrasive cutting technique for tank C-105 and has experienced delays to the planned schedule while resolution of an issue through the Differing Professional Opinion process DOE O 442.2 is completed. DOE-ORP and its Contractor are evaluating the schedule impacts and possible mitigation actions for alternative cutting techniques.

2. DOE-ORP and its Contractor are reviewing whether the amount of sludge being stored in the tanks causes additional hazards due to gas generation and the potential that gas could be released within the headspace of the tank safely. While this issue is under review, controls have been put in place to limit the amount of sludge being added to the DSTs during C Farm retrieval. The Contractor is conducting analysis of the best way to release the limitations on retrieval and provide safe storage for sludge in the DSTs.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

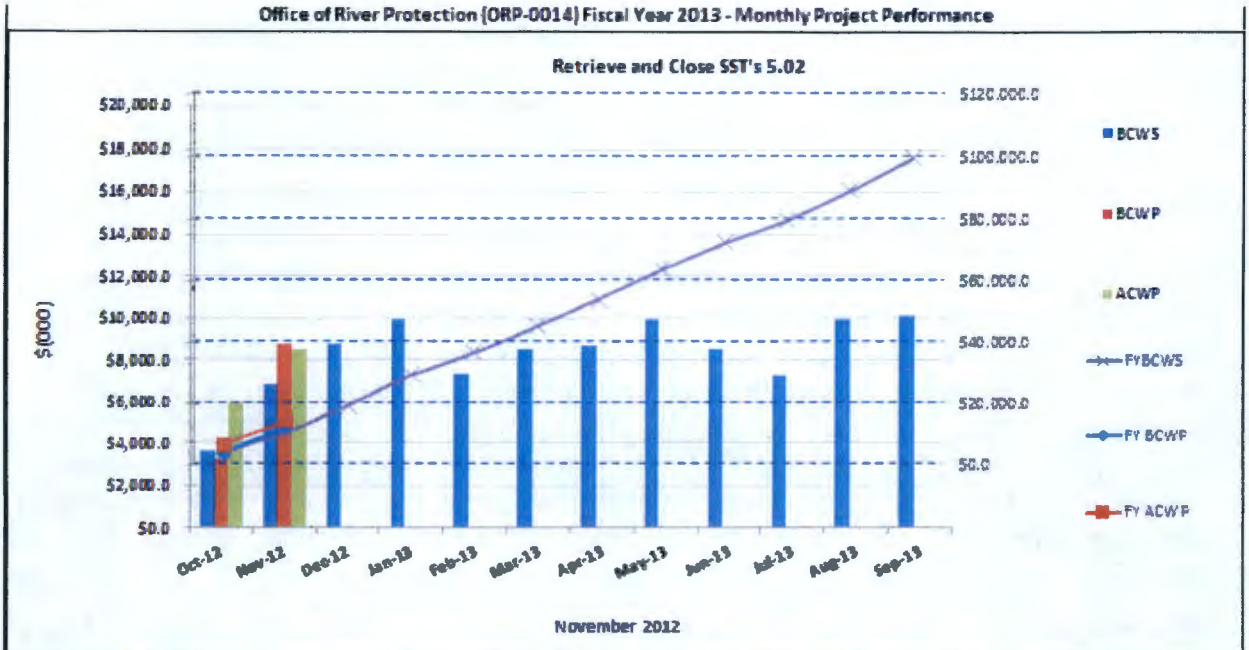
Significant Planned Activities in the Next 6 Months:

Work with Ecology on updates to TWRWPs RPP-22393, RPP-33116, RPP-22520 and RPP-37739 for tanks C-105, C-110, C-111, and C-112.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	$3,620.6	$3,262.2	$6,009.2	0.90	0.54	$3,620.6	$3,262.2	$6,009.2	0.90	0.54
Nov-12	$6,822.3	$8,789.7	$8,503.5	1.29	1.03	$10,442.9	$12,051.9	$14,512.7	1.15	0.83
Dec-12	$8,754.6			0.00		$19,197.5			0.00	
Jan-13	$9,897.3			0.00		$29,094.8			0.00	
Feb-13	$7,352.9			0.00		$36,447.7			0.00	
Mar-13	$8,549.1			0.00		$44,996.8			0.00	
Apr-13	$8,677.0			0.00		$53,673.8			0.00	
May-13	$9,896.3			0.00		$63,570.1			0.00	
Jun-13	$8,470.0			0.00		$72,040.1			0.00	
Jul-13	$7,298.8			0.00		$79,338.9			0.00	
Aug-13	$9,902.0			0.00		$89,240.9			0.00	
Sep-13	$10,128.5			0.00		$99,369.4			0.00	
CTD	$350,141.9	$352,961.0	$348,508.5	1.01	1.01					

Retrieval and Close Single-Shell Tanks

Cost Variance $1,967K:

The favorable cost variance is primarily due to:

- DOE-ORP and Ecology conducting a workshop to select the hard heel retrieval strategy for C-112 Retrieval, which negated the need for sampling.
- C-Farm Retrieval Maintenance due to the schedule recovery of the AN-101 pump and waste decant.

Schedule Variance $286K:

The favorable schedule variance is primarily due to:

- DOE-ORP and Ecology conducting a workshop to select the hard heel retrieval strategy for C-112 Retrieval, which negated the need for sampling.

Waste Treatment and Immobilization Plant (WTP) Project

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

The WTP Project currently employs approximately 2445 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 538 craft, 348 non-manual, and 103 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of November 2012, the project was 62 percent complete overall, 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. In October 2012, the Baseline Change Proposal that implemented the LBL re-plan was incorporated into the project baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values.

The cumulative-to-date WTP Project schedule variance in November 2012 was a positive $26 M. The cumulative-to-date WTP Project cost variance was a negative $23.6 M. The positive schedule variance was due to the LBL re-baseline; the negative cost variance was primarily related to slowdown of activities in engineering design and construction.

The following is the status of project matters through the end of November:

Significant Past Accomplishments:

- Issued the final report on the PVV entrainment coefficient testing (PT)
- DOE completed review of the Consent Decree Milestone (D-00A-21) submitted by Bechtel on October 24, 2012 and determined that Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility" is complete (HLW)
- Issued 12 off-gas isometric drawings for the LAW Secondary Offgas/Vessel Vent Process (LVP) system (LAW)
- Completed construction of the steam plant (BOF)
- Consent Decree Milestone (A-05) "LAB Construction Substantially Complete" completed (LAB)

Significant Planned Actions in the Next Six Months:

- Complete the HPAV HGR rate calculations (PT)
- Award contract(s) for prototype design/fabrication for HEPA filter redesign (HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of Auto Sampling (ASX system) (LAW)
- Complete construction of the WTP Cooling Tower (BOF)
- Complete construction of WTP Chiller Compressor Plant (BOF)
- Completion of the high purity gas system installation(LAB)

Issues:

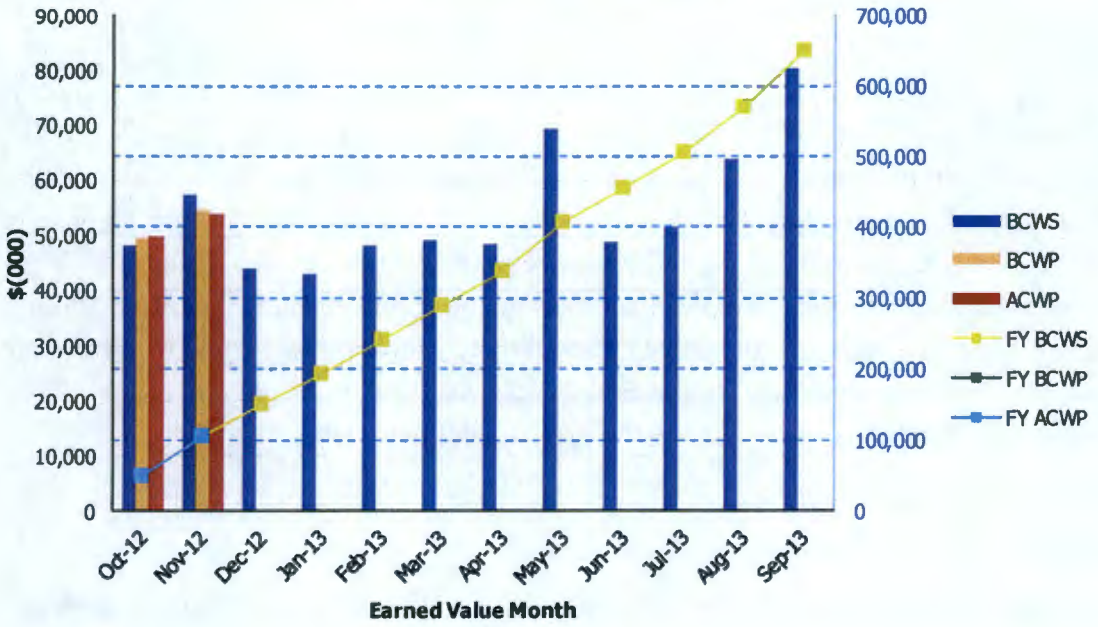
- Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.
- Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in HLW.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
Waste Treatment Plant (WTP) Project

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$47,840	$49,300	$49,742	1.03	0.99	$47,840	$49,300	$49,742	1.03	0.99
Nov 2012	$57,411	$54,398	$53,916	0.95	1.01	$105,251	$103,698	$103,658	0.99	1.00
Dec 2012	$43,993					$149,244				
Jan 2013	$42,828					$192,072				
Feb 2013	$47,838					$239,910				
Mar 2013	$48,918					$288,828				
Apr 2013	$48,297					$337,125				
May 2013	$69,312					$406,437				
Jun 2013	$48,818					$455,255				
Jul 2013	$51,392					$506,647				
Aug 2013	$63,898					$570,545				
Sep 2013	$80,281					$650,826				
PTD	$7,245,860	$7,248,565	$7,314,715	1.00	0.99					

PRETREATMENT (PT) FACILITY

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

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. As of November 2012, the PT Facility was 56 percent complete overall with engineering design 85 percent complete, procurement 56 percent complete, construction 43 percent complete, and startup and commissioning 3 percent complete. Additional work-scope is required to resolve outstanding technical issues, which will impact the engineering design percent complete status. Because construction, procurement, and production engineering is on hold, there is no change in the percent complete status since then.

Significant Past Accomplishments:

Key activities in PT are resolution of technical issues.

The S-1 Review Team established Technical Teams to address specific technical issues; these teams consist of members from the contractor, DOE, Ecology, and outside experts. BNI has aligned its Technical Review Teams with the S-1 teams to ensure all issues are coordinated.

Construction progress on the 14-foot large scale mixing test platform continues as part of preparations for overall large scale testing. Engineering studies are being performed to determine full-scale test objectives, vessel selections, and instrument functions to support the testing.

The final report on the PVV entrainment coefficient testing was issued in December 2012. The Hazard Analysis report for this system is being prepared.

As part of the action plan for resolution of the erosion/corrosion issue, a corrosion test scoping document was issued in December 2012 to address the material selection issue. DOE concurs with BNI's plan for incorporation of probabilistic assessment for Erosion/Corrosion Differing Professional Opinion. Evaluations are ongoing to understand the available redundancy in case of

some failures in the black cells. At the same time, available technology is being reviewed to support in-service inspection.

Significant Planned Actions in the Next Six Months:

- Complete the HPAV HGR rate calculations
- Determine a path forward on vessel mixing
- Independent review of potential for Criticality in Vessels
- Review of Flammable Gas Generation, Retention, and Release from sediments in vessels
- Decision process for Vessel Structural Modifications

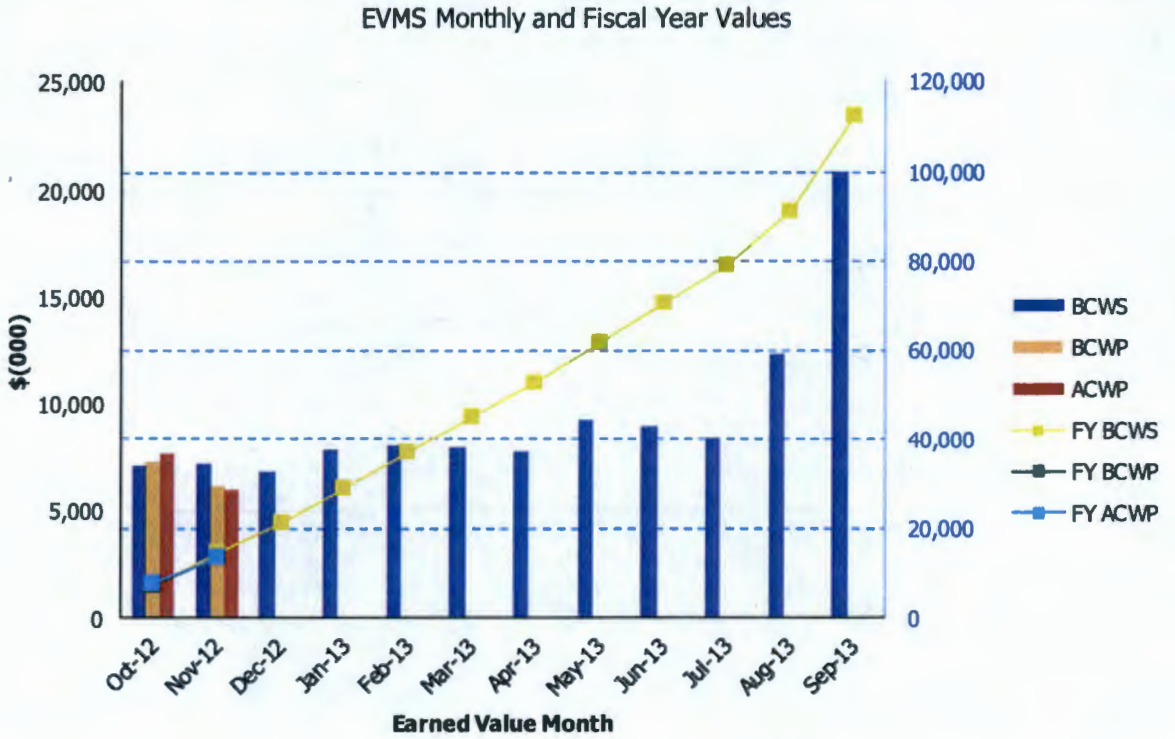
Issues:

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

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
Pretreatment Facility



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$7,077	$7,269	$7,660	1.03	0.95	$7,077	$7,269	$7,660	1.03	0.95
Nov 2012	$7,200	$6,130	$5,974	0.85	1.03	$14,277	$13,399	$13,634	0.94	0.98
Dec 2012	$6,813					$21,090				
Jan 2013	$7,828					$28,918				
Feb 2013	$8,023					$36,941				
Mar 2013	$7,948					$44,889				
Apr 2013	$7,707					$52,596				
May 2013	$9,246					$61,842				
Jun 2013	$8,933					$70,775				
Jul 2013	$8,400					$79,175				
Aug 2013	$12,325					$91,500				
Sep 2013	$20,839					$112,339				
PTD	$1,424,744	$1,423,866	$1,424,101	1.00	1.00					

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	Complete
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On-going* (see issues below)
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On-going* (see issues below)
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the Pretreatment (PT) Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. As of November 2012, the HLW Facility is 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning is 4 percent complete. Because construction, procurement, and production engineering has significantly slowed down, there is minimal change in the percent complete status since then.

Significant Past Accomplishments:

DOE completed review of the Consent Decree Milestone (D-00A-21) submitted by Bechtel on October 24, 2012 and determined that Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility" is complete.

Key ongoing Construction activities are: limited placement of walls and slabs at 37' elevation; installation of structure steel at 58' elevation; installation of cable tray supports and HVAC ducts at 14' elevation.

Key ongoing Engineering and ENS activities are: support construction, procurement, Reliability Validation Process (RVP) towards resolution of level 1 findings, and Preliminary Documented Safety Analysis (PDSA) update.

The S-1 Review Team established Technical Teams to address specific technical issues, consisting of members from the contractor, DOE, Ecology, and outside experts. BNI has aligned its Technical Review Teams with the S-1 teams to ensure all issues are coordinated.

To resolve the HEPA filter issue, Bechtel has submitted a schedule to procure a redesigned filter that will meet plant operating conditions. Bechtel is working with potential vendors to evaluate interest in producing prototype filters. Bechtel is working on filter specifications. Once the vendors are selected, the redesigned filters will be tested and the best option selected; the winning design will then go through qualifying testing for use in WTP.

Bechtel is working towards correcting the weld deficiencies on Plant Wash and Drain Vessel (RLD-VSL-08). Based on discussion with DOE, BNI has issued direction to the vendor to make the vessel compliant with the purchase order requirements for undercut and weld size. Bottom head weld on Acidic Waste Vessel (RLD-VSL-07) has been put on hold to evaluate an issue of heat impact on the seam weld.

BNI had kicked off RVP in August with significant number of staff participating on interdisciplinary teams. RVP is a large management self-assessment being conducted on systems the LAB Facility and three foundational processes (engineering-procurement interface, Design Verification and Requirements Flow-down), that included several HLW systems as well. Federal staffs are overseeing the process. RVP Wave 1 was about 70% completed and the recommendations and findings that have been discovered were recorded as issues by BNI. BNI is in the process of initiating review and analysis of the issues identified to develop path forward for resolutions.

DOE, BNI, and Ecology met and did a walk-through dealing with replacement of HDH-VSL-2/4 cooling coils to support the Permit Change Notice submitted to Ecology.

Significant Planned Actions in the Next Six Months:

- Award contract(s) for prototype design/fabrication for HEPA filter redesign
- Complete RVP reviews
- Complete the first of the two Authorization Basis Amendment Requests (ABARs) to support Preliminary Documented Safety Analysis (PDSA) upgrade – focus of the first ABAR is to incorporate changes in the facility and control descriptions
- Finish all concrete slabs at the 37' level

Issues:

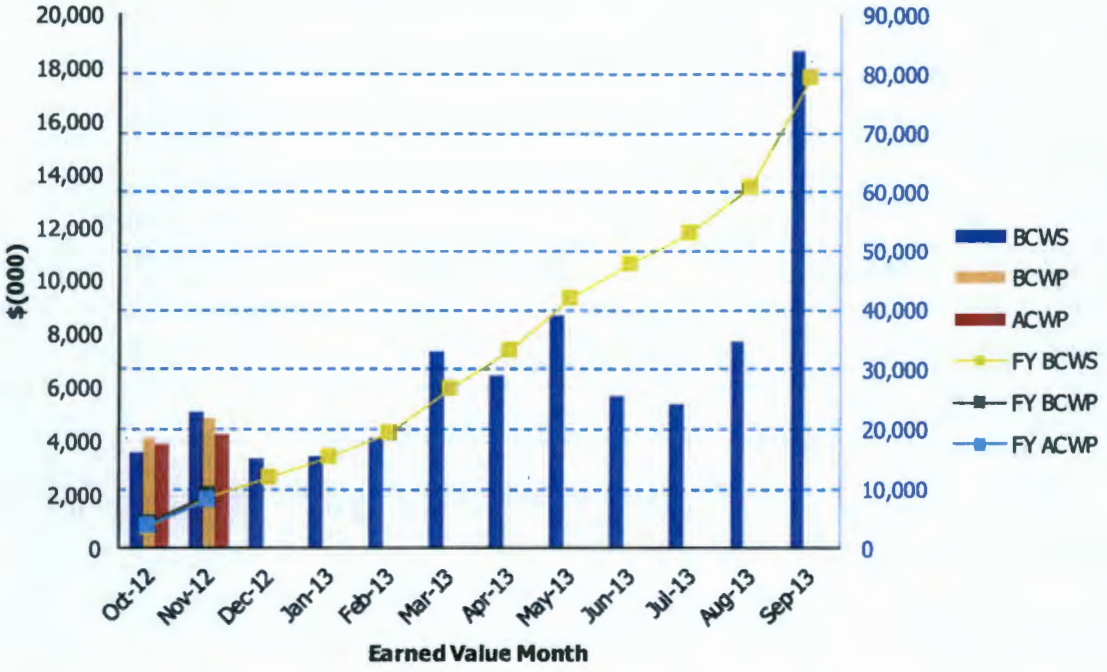
* Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
High-Level Waste Facility

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$3,545	$4,105	$3,895	1.16	1.05	$3,545	$4,105	$3,895	1.16	1.05
Nov 2012	$5,079	$4,852	$4,256	0.96	1.14	$8,624	$8,957	$8,151	1.04	1.10
Dec 2012	$3,350					$11,974				
Jan 2013	$3,388					$15,362				
Feb 2013	$4,069					$19,431				
Mar 2013	$7,292					$26,723				
Apr 2013	$6,451					$33,174				
May 2013	$8,700					$41,874				
Jun 2013	$5,688					$47,562				
Jul 2013	$5,378					$52,940				
Aug 2013	$7,657					$60,597				
Sep 2013	$18,609					$79,206				
PTD	$930,757	$931,086	$930,284	1.00	1.00					

LOW-ACTIVITY WASTE (LAW) FACILITY

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

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 are anticipated to be disposed on the Hanford Site in the Integrated Disposal Facility. As of November 2012, the LAW Facility is 61 percent complete overall, with engineering design 76 percent complete, procurement 83 percent complete, construction 60 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

- Issued 12 off-gas isometric drawings for the LAW Secondary Offgas/Vessel Vent Process (LVP) system
- Completed the Civil, Structural & Architectural (CSA) story drift calculations at the +48 elevation
- Issued 45 instrument datasheets
- Completed placement of the melter condenser elevated slab
- Completed installation of the anchor plates to support the Thermal Catalytic Oxidizer (TCO) at the +48 elevation
- Completed the procurement of the melter refractory
- Completed the installation of the cooling panels for Melter #1

Significant Planned Actions in the Next Six Months:

- Complete installation melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Begin installation of Melter #1 Refractory
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system
- Receive TCO for LVP system

Issues:

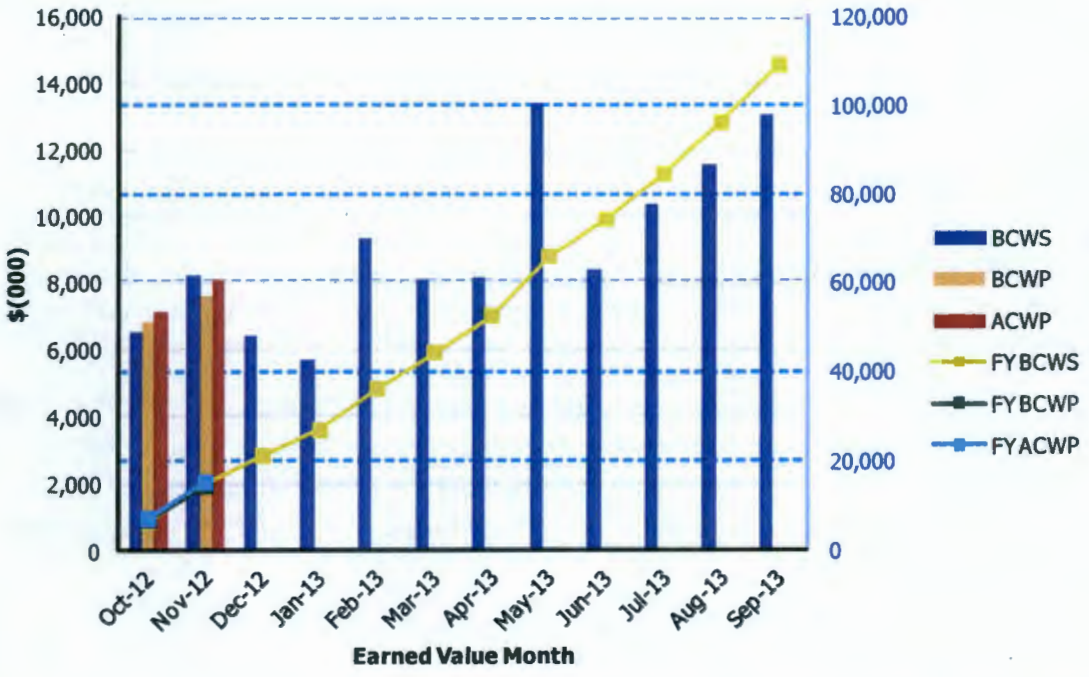
No major issues at this time.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
Low-Activity Waste Facility

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$6,536	$6,787	$7,142	1.04	0.95	$6,536	$6,787	$7,142	1.04	0.95
Nov 2012	$8,212	$7,602	$8,071	0.93	0.94	$14,748	$14,389	$15,213	0.98	0.95
Dec 2012	$6,418					$21,166				
Jan 2013	$5,684					$26,850				
Feb 2013	$9,307					$36,157				
Mar 2013	$8,089					$44,246				
Apr 2013	$8,151					$52,397				
May 2013	$13,419					$65,816				
Jun 2013	$8,357					$74,173				
Jul 2013	$10,335					$84,508				
Aug 2013	$11,564					$96,072				
Sep 2013	$13,020					$109,092				
PTD	$708,459	$711,377	$763,759	1.00	0.93					

BALANCE OF FACILITIES (BOF)

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

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. As of November 2012, the BOF is 53 percent complete overall, with engineering design 76 percent complete, procurement 65 percent complete, construction 70 percent complete, and startup and commissioning is 8 percent complete.

Significant Past Accomplishments:

Activities within BOF to support facility completion, and turnover to the startup organization are on-going. Each facility will be evaluated to verify the adequacy of design and readiness for operation. The first stage of this validation will occur as part of the turnover from construction to the startup organization for component level testing.

The WTP contractor conducted and continues to conduct bi-weekly meetings to support facility completion. These meetings focus on schedule reviews, punch list development for the remaining construction activities, and startup and operations activities. The fire detection and low voltage electrical systems for building 87 have been turned over to startup and startup testing has started on these systems.

Recent accomplishments for the BOF team are:

- Completed construction of the steam plant
- Issued the preliminary general arrangement drawings for the electrical turbine generator (ETG) facility
- Completed the cathodic protection coupon test station design
- Continued punch list work-off in the Chiller Compressor Plant (CCP)

Significant Planned Actions in the Next Six Months:

- Complete construction of the WTP Cooling Tower
- Complete construction of the BOF switchgear building
- Complete Construction of the WTP Chiller Compressor Plant
- Complete the component and functional testing of the low and medium voltage (LVE/MVE) and fire detection (FDE) systems in the switchgear building (bldg 87).
- Energization of the site electrical distribution system.

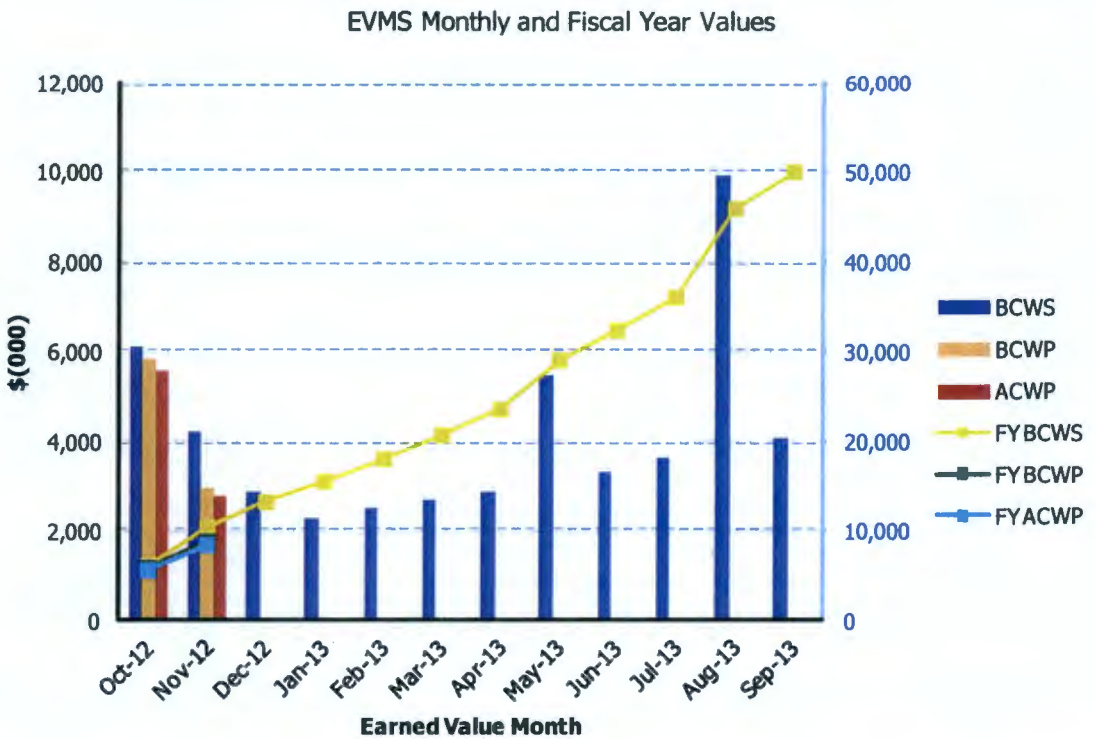
Issues:

- A concern has been raised about the effectiveness of the design for the cathodic protection system. BNI is designing and installing test stations to improve the understanding of the effectiveness of the system.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
Balance of Facilities



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$6,106	$5,820	$5,580	0.95	1.04	$6,106	$5,820	$5,580	0.95	1.04
Nov 2012	$4,226	$2,955	$2,775	0.70	1.06	$10,332	$8,775	$8,355	0.85	1.05
Dec 2012	$2,877					$13,209				
Jan 2013	$2,276					$15,485				
Feb 2013	$2,521					$18,006				
Mar 2013	$2,670					$20,676				
Apr 2013	$2,875					$23,551				
May 2013	$5,462					$29,013				
Jun 2013	$3,316					$32,329				
Jul 2013	$3,637					$35,966				
Aug 2013	$9,908					$45,874				
Sep 2013	$4,092					$49,966				
PTD	$286,079	$284,360	$282,287	0.99	1.01					

ANALYTICAL LABORATORY

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

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of November 2012, the LAB is 65 percent complete overall, with engineering design 73 percent complete, procurement 81 percent complete, construction 77 percent complete, and startup and commissioning is 21 percent complete.

Significant Past Accomplishments:

Following completion of the interim milestone "LAB Construction Substantially Complete", efforts are focused on construction completion in June 2014. Work continues on weld repair for the Radioactive Liquid Waste Disposal System (RLD) vessels and installation of Hot Cell commodities.

Recent accomplishments for the LAB team are:

- Consent Decree Milestone (A-05) "LAB Construction Substantially Complete" completed
- Completed installation of fire protection piping and hangers
- Completed installation of the major instrumentation panels, cabinets, racks and cubicles
- Completed LAB facility Reliability Validation Process (RVP) assessment

Significant Planned Actions in the Next Six Months:

- Completion of the high purity gas system installation
- Completion and closeout of the HVAC subcontract
- Complete repairs to RLD vessels

Issues:

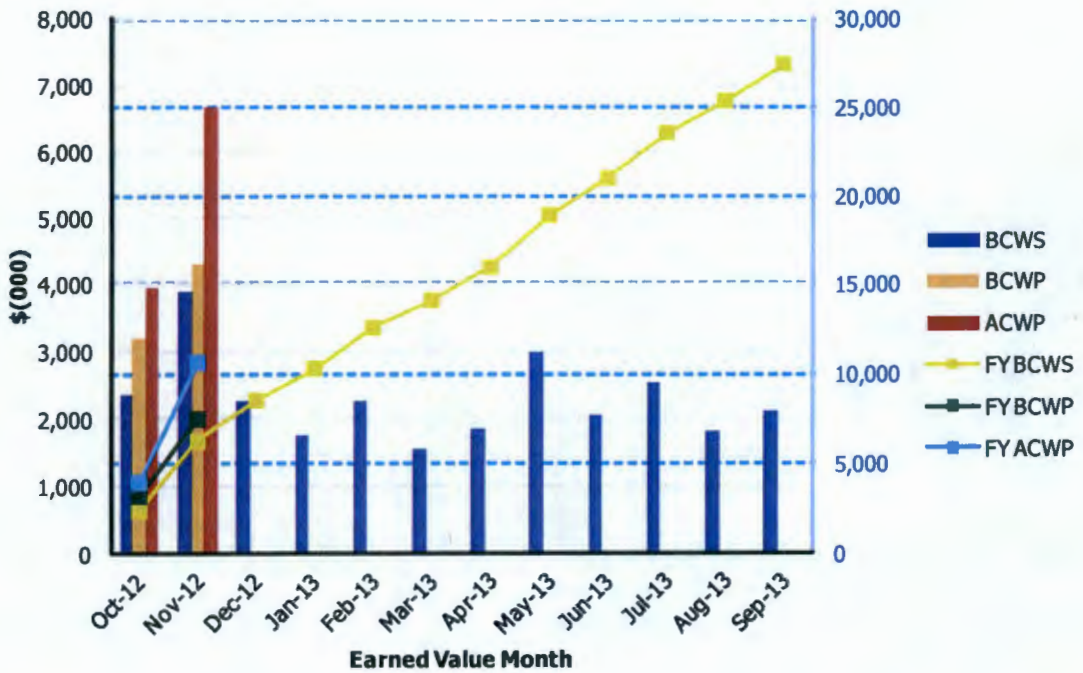
- RLD Vessel 164 welds require significant rework

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data Data as of: November 2012

River Protection Project
Analytical Laboratory

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	$2,370	$3,183	$3,952	1.34	0.81	$2,370	$3,183	$3,952	1.34	0.81
Nov 2012	$3,896	$4,303	$6,675	1.10	0.64	$6,266	$7,486	$10,627	1.19	0.70
Dec 2012	$2,281					$8,547				
Jan 2013	$1,751					$10,298				
Feb 2013	$2,264					$12,562				
Mar 2013	$1,541					$14,103				
Apr 2013	$1,835					$15,938				
May 2013	$2,998					$18,936				
Jun 2013	$2,067					$21,003				
Jul 2013	$2,542					$23,545				
Aug 2013	$1,809					$25,354				
Sep 2013	$2,111					$27,465				
PTD	$212,192	$214,557	$233,983	1.01	0.92					

Waste Treatment Plant Project - Percent Complete Status
Through November 2012

(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
Facilities	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
Low-Activity Waste	1,172.4	711.4	61%	291.3	220.8	76%	259.7	215.9	83%	444.8	267.1	60%	176.6	7.3	4%
Analytical Lab	328.2	214.6	65%	69.2	56.2	81%	56.2	45.6	81%	134.4	104.0	77%	68.5	14.4	21%
Balance of Facilities	536.9	284.4	53%	89.4	67.9	76%	71.6	46.8	65%	223.3	156.9	70%	152.7	12.8	8%
High-Level Waste	1,118.0	931.1	83%	383.9	328.6	86%	420.7	350.5	83%	308.8	247.6	80%	4.6	4.4	96%
Pretreatment	1,627.9	1,423.9	87%	818.5	656.6	80%	415.6	382.2	92%	385.6	379.3	98%	8.3	5.7	70%
Shared Services	4,179.9	3,683.3	88%	1,039.9	987.6	95%	569.2	503.5	88%	1,318.2	1,181.1	90%	207.4	137.1	66%
Total WTP w/o UB	8,963.3	7,248.6	81%	2,692.2	2,317.8	86%	1,792.9	1,544.4	86%	2,815.0	2,335.9	83%	618.0	181.7	29%
Undistributed Budget	1,982.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,946.2	7,248.6	66%	2,692.2	2,317.8	86%	1,792.9	1,544.4	86%	2,815.0	2,335.9	83%	618.0	181.7	29%

Source: Preliminary WTP Contract Performance Report - Format 1, Data for October 2012

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. This report does not show the LOE budgets that are not associated with a specific EPCC function, these include, Finance, Project Management, etc, but are included in the total Overall Facility Percent Complete for Shared Services. In September 2012, the LBL Replan was incorporated into the project baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. In October 2012, the PT/HLW/SS Interim Work Plan was incorporated into the project baseline resulting in decreases to the PT/HLW/SS facility budgets, which correspondingly increased the facility/function to-date percent complete values, this was due to a work scope shift from the Distributed budget to UB.