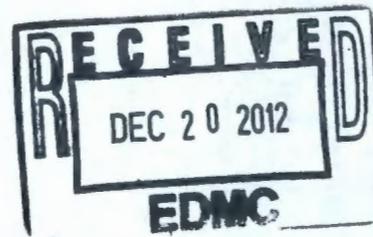


FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
December 2012



Office of River Protection
 Consent Decree 08-5085-FVS
 Monthly Summary Report
 December 2012

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
11	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
14	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
17	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
19	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
21	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		On-going
**D-00C-02AA	Submit to Ecology & State of Oregon Monthly Summary Report	01/31/2013		On-going
** 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-going

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013 Continued				
D-00A-12	Steam Plant Construction Complete	12/31/2012		On-going
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 Operational Acceptance Testing for C-101 and C-102 Modified Sluicing Retrieval system.
2. Completed installation of replacement pump for AN-101.
3. Continued planning and initiated field activities for replacement of failed pump for AN-106.
4. Completed removal of the C-105 Heel Pit, installation of the Caisson and backfill around the Caisson in preparation of Dome Cut and Large Riser installation at C-105 SST.
5. Initiated planning and field activities associated with repair of the C-107 high pressure spray water nozzle leak.
6. Completed Modifications to the In-Tank Vehicle system in preparation for testing and training at the Cold Test Facility and future use at C-110 SST.

Significant Planned Activities in the Next Six Months:

1. Complete start up of the modified sluicing system in C-101.
2. Complete start up of the modified sluicing system in C-102.
3. Complete installation of the large riser 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.

Issues:

None.

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	High pressure water spray/M A RS platform	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure	-
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	None	-
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.

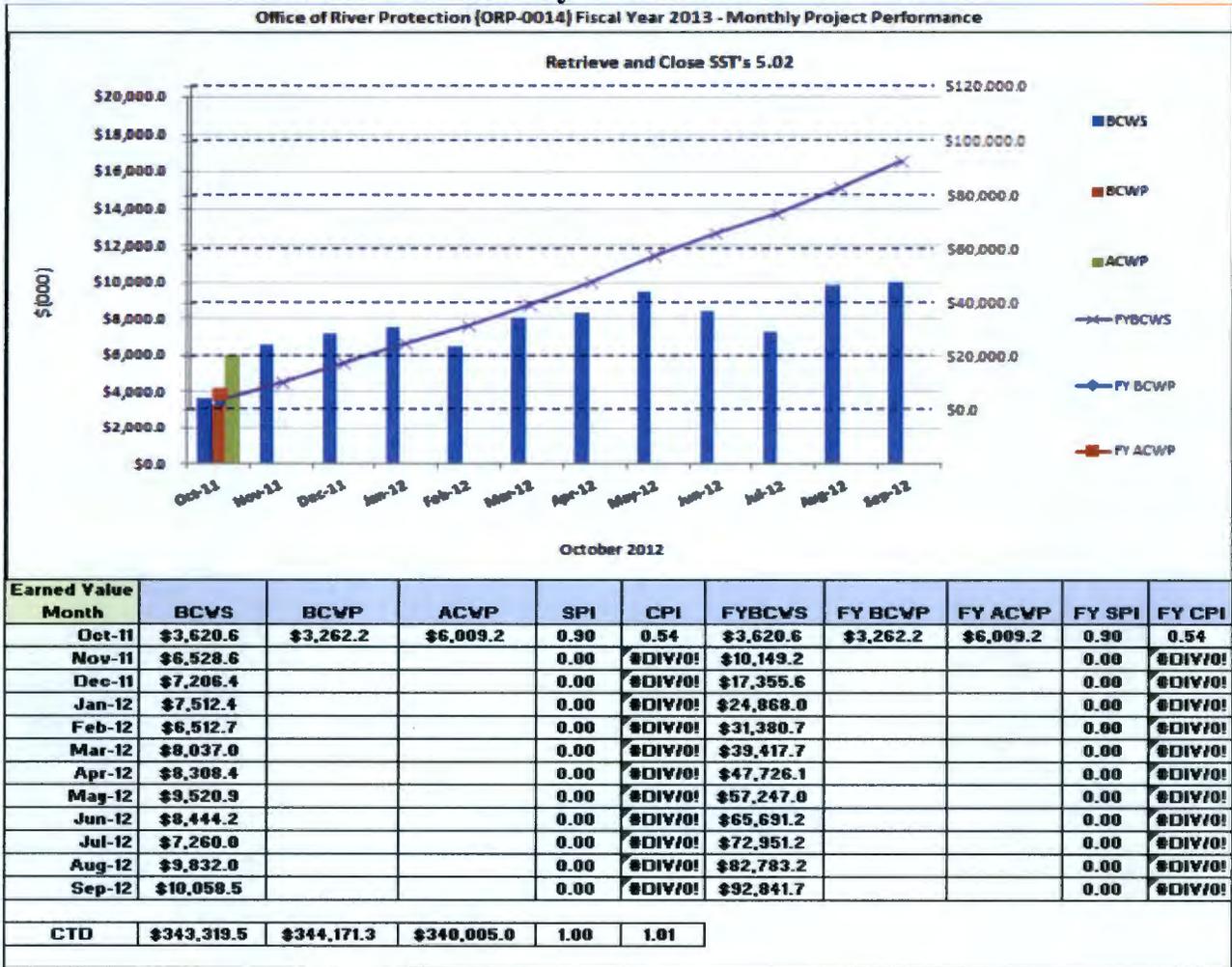
Significant Planned Activities in the Next 6 Months:

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

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Single-Shell Tanks

Cost Variance (\$1,471K):

The unfavorable cost variance is primarily due to:

- C-101 Retrieval. The CM unfavorable CV is due to: Under-accrual for the subcontractor that performed FY 2012 equipment removal and ventilation installation work; additional resources were required in design and engineering to implement the water hammer scope.

The unfavorable CV was partially offset by:

- C-111 Retrieval. The CM favorable CV is an anomaly due to the overhead costs and taxes of the two high-pressure Extended Reach Sluicing Systems that was paid the previous month.

Schedule Variance (\$250K):

The unfavorable schedule variance is primarily due to:

- C-107 Retrieval. The CM unfavorable SV is driven by suspension of hard heel retrieval operations until the AN-106 supernate pump is replaced in December. Pump replacement was required after discovery of a hydraulic leak.

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 2440 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 617 craft, 483 non-manual, and 122 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of October 2012, the project was 66 percent complete overall, design and engineering was 85 percent complete, procurement was 86 percent complete, construction was 82 percent complete, and startup and commissioning was 29 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 October was a positive \$5.7 M. The cumulative-to-date WTP Project cost variance was a negative \$66.6 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 October:

Significant Past Accomplishments:

- Issued schedule to complete items in the erosion/corrosion action plan, as part of the Two-Year Work Plan. (PT)
- DOE completed review of the Consent Decree Milestone (D-00A-21) submitted by Bechtel on October 24, 2012. DOE reviewed the completion, and the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility" has been completed. (HLW)
- Issued 8 off-gas isometrics for the LAW Secondary Offgas/Vessel Vent Process (LVP) system. (LAW)
- Completed generic test procedures for support of building 86 testing. (BOF)
- Completed electrical and mechanical installation scope on the C2 ventilation system air handling units at elevation +14'. (LAB)

Significant Planned Actions in the Next Six Months:

- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system. (PT)
- Review supplier prequalification packages to determine bidder list 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)
- Complete and closeout HVAC subcontract. (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.

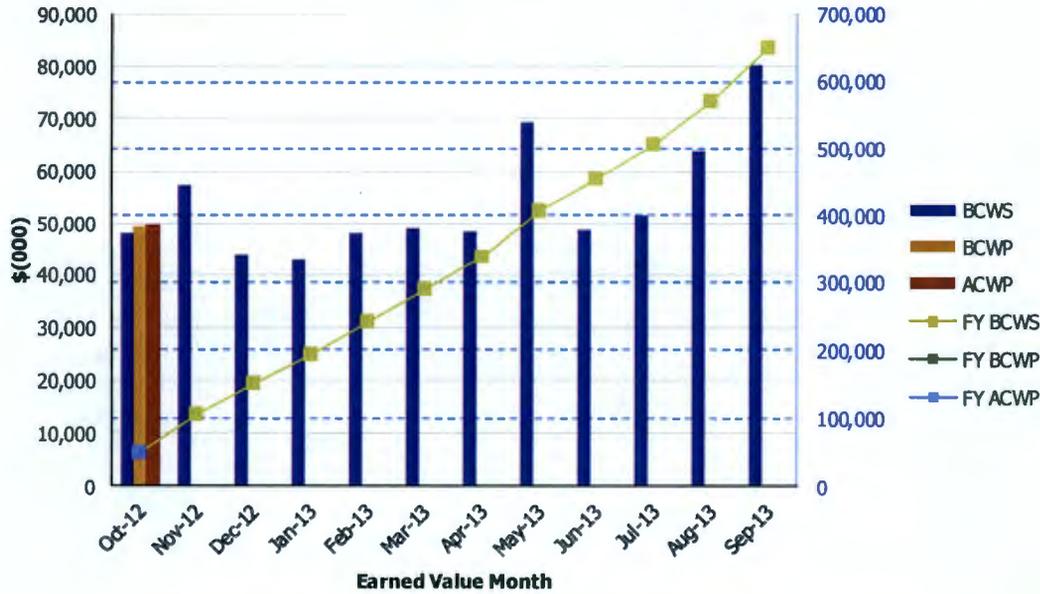
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: October 2013

**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					\$105,251				
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	\$7,188,449	\$7,194,167	\$7,260,799	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 October 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 data from last month.

Significant Past Accomplishments:

The contractor implemented the PT, HLW, and the Shared Services FY13 & FY14 Two-Year Work Plan.

BNI Engineering established 5 Technical Review Teams to address PT and HLW technical issues: (1) Erosion/Corrosion, (2) Process Transfer/Evaporators/HPAV, (3) HVAC/PVV and Filter Technical Issues, (4) Fire/Flooding and E&NS Integration, and (5) Equipment Qualification.

The S-1 Review Team established 5 teams to address specific technical issues, consisting of members from the contractor, DOE, and outside experts: (1) Waste Preconditioning, (2) Full-Scale Vessel Testing, (3) In-Service Inspection/Redundancy, (4) Black Cell Analysis, and (5) Erosion/Corrosion. BNI is in the process of aligning its Technical Review Teams with the S-1 teams to ensure all issues are coordinated.

The key on-going activities in PT are being reviewed by the review teams, and a path forward is being developed.

The S-1 Team has determined that Computational Fluid Dynamics model is not an appropriate tool for design verification of vessel mixing. Based on that, DOE has directed BNI to suspend that activity, and BNI is in the process of ramping down and suspending planned work.

Construction progress on the 14 foot large scale mixing test platform continues as part of preparations for large scale vessel testing.

Issued the process corrosion data sheet volume 3 for PTF/HLW PJM and priority non-PJM vessels.

A final report on the PVV entrainment coefficient testing is planned to be issued in December 2012.

As part of the action plan for resolution of the erosion/corrosion issue, a corrosion test scoping document is planned to be issued in December 2012 to address the material selection issue.

DOE agreed with BNI's plan for incorporation of probabilistic assessment for Erosion/Corrosion Differing Professional Opinion.

Significant Planned Actions in the Next Six Months:

- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system
- Complete the HPAV HGR rate calculations
- Determine a path forward on vessel mixing
- Issue the corrosion test scoping document
- 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: October 2013

**River Protection Project
Pretreatment 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	\$7,077	\$7,269	\$7,660	1.03	0.95	\$7,077	\$7,269	\$7,660	1.03	0.95
Nov 2012	\$7,200					\$14,277				
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	\$1,417,544	\$1,417,736	\$1,418,127	1.00	1.00
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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	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 October 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 data from last month.

Significant Past Accomplishments:

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

The contractor implemented the PT, HLW, and Shared Services FY13 & FY14 Two-Year Work Plan.

BNI Engineering had established 5 Technical Review Teams to address PT and HLW technical issues: (1) Erosion/Corrosion, (2) Process Transfer/Evaporators/HPAV, (3) HVAC/PVV and Filter Technical Issues, (4) Fire/Flooding and E&NS Integration, and (5) Equipment Qualification.

The S-1 Review Team established 5 teams to address specific technical issues, consisting of members from the contractor, DOE, and outside experts: (1) Waste Preconditioning, (2) Full-Scale Vessel Testing, (3) In-Service Inspection/Redundancy, (4) Black Cell Analysis, and (5) Erosion/Corrosion. BNI is in the process of aligning 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 gain 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). Bechtel and DOE have agreed on a path forward on the repairs and the vendor

has submitted a detailed Repair Plan that is currently under review. BNI has issued direction to the vendor to make the vessel compliant with the purchase order requirements for undercut and weld size.

Bechtel continues the Reliability Validation Process (RVP) to address the DOE level 1 finding on Systemic Integrated Management Performance Concerns. During the RVP, Bechtel will be conducting in-depth system reviews on critical systems. The systems under review for HLW are Radioactive Liquid Waste Disposal System (RLD), HLW Melter Offgas Treatment Process System (HOP), and HLW Melter Feed Process System (HFP). The system reviews are approximately 60% complete and are scheduled to finish by March 2013.

Significant Planned Actions in the Next Six Months:

- Review supplier prequalification packages to determine bidders list for HEPA filter redesign
- 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: October 2013

**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					\$8,624				
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	\$925,677	\$926,234	\$926,027	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 October 2012, the LAW Facility is 60 percent complete overall, with engineering design 75 percent complete, procurement 83 percent complete, construction 59 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

- Issued 8 off-gas isometric drawings for the LAW Secondary Offgas/Vessel Vent Process (LVP) system.
- Issued melter offgas caustic datasheets, specifications, and material requisitions.
- LVP system's HEPA housings and Carbon Bed Adsorber have been approved by Ecology for final installation. The Carbon bed absorber has been delivered and staged on the +48 foot level.
- Placed the concrete slab to support condensate units.
- Installed electrical power to two temporary 2.5 ton cranes to support melter refractory installation.
- Continued installation of the electrical equipment in the Annex.
- Removal of the Melter #2 shield/gas barrier lid.
- Repaired the mica on the melter cooling panels.

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 Thermal Catalytic Oxidizer (TCO) for LVP system

Issues:

No major issues at this time.

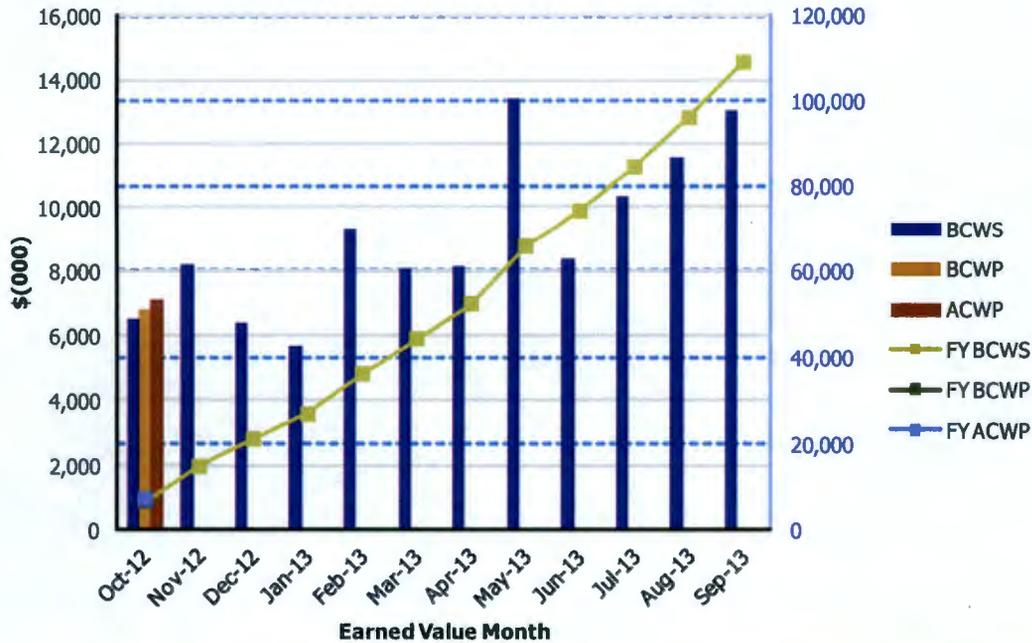
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: October 2013

**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					\$14,748				
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	\$700,247	\$703,775	\$755,688	1.01	0.93					

BALANCE OF FACILITIES (BOF)

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

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. As of October 2012, the BOF is 52 percent complete overall, with engineering design 76 percent complete, procurement 65 percent complete, construction 69 percent complete, and startup and commissioning is 8 percent complete.

Significant Past Accomplishments:

Efforts are focused on remaining activities to complete Consent Decree Milestone (A-012) “Steam Plant Construction Complete”. 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.

As necessary to support facility completion, the WTP contractor conducted, and continues to conduct, a weekly or bi-weekly meeting. These meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings continue to be held for the WTP site switchgear buildings (87 and 91) and Chiller Compressor Plant (CCP).

Recent accomplishments for the BOF team are:

- Completed generic test procedures for support of building 86 testing
- Issued final report on cathodic protection by independent consultants
- Issued confirmed calculations for the switchgear building 87 vault, and foundation

Significant Planned Actions in the Next Six Months:

- Complete construction of the WTP Cooling Tower
- Complete construction of the BOF switchgear buildings
- Complete Construction of the WTP Chiller Compressor Plant
- Turn over the WTP switchgear building (Bldg 87) from construction to the Startup organization
- Start testing of the fire protection system in building 87

Issues:

- Post Install Anchors inspection records indicate some anchors may have been installed incorrectly, BNI is reviewing installation.

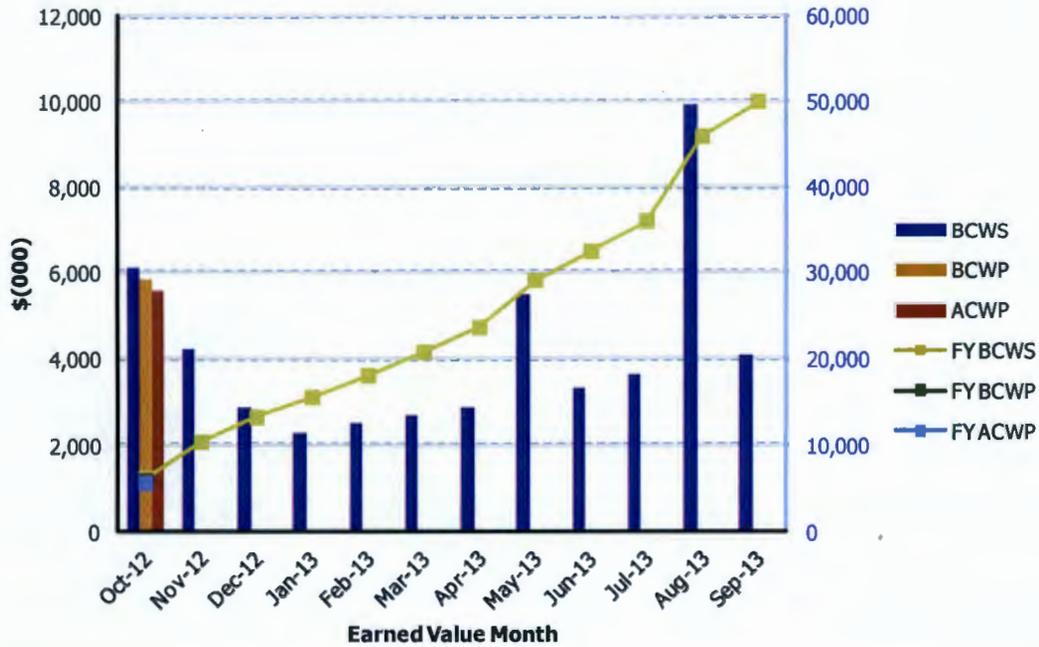
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: October 2013

**River Protection Project
Balance of Facilities**

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	\$6,106	\$5,820	\$5,580	0.95	1.04	\$6,106	\$5,820	\$5,580	0.95	1.04
Nov 2012	\$4,226					\$10,332				
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	\$281,853	\$281,405	\$279,512	1.00	1.01
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ANALYTICAL LABORATORY

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

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of October 2012, the LAB is 64 percent complete overall, with engineering design 72 percent complete, procurement 81 percent complete, construction 76 percent complete, and startup and commissioning is 21 percent complete.

Significant Past Accomplishments:

The contractor continued efforts toward completion of Consent Decree Milestone (A-05) "LAB Construction Substantially Complete." The current construction forecast finish date is November 30, 2012 and the Consent Decree compliance date is December 31, 2012. Work continues on completing punch list activities in support of construction substantially complete. Detail/finishing work continues within the individual analytical areas with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Modifications to the HVAC system to add 20 expansion joints to the C5V system are complete.

Recent accomplishments for the LAB team are:

- Completed electrical and mechanical installation scope on the C2 ventilation system air handling units at elevation +14'
- Progress Analytical Laboratory Construction to "Substantially Complete"
- Completed installation of fire protection piping and hangers
- Completed installation of the major instrumentation panels, cabinets, racks and cubicles
- Completed LAB facility RVP assessment
- Completed installation of filter housings RLD-HEPA-00015 & 00018

Significant Planned Actions in the Next Six Months:

- Completion of the high purity gas systems subcontract
- Completion and closeout of the HVAC subcontract
- Install electrical wiring bulks
- Complete repairs to RLD vessels 163 and 164

Issues:

- RLD Vessel 164 welds require significant rework

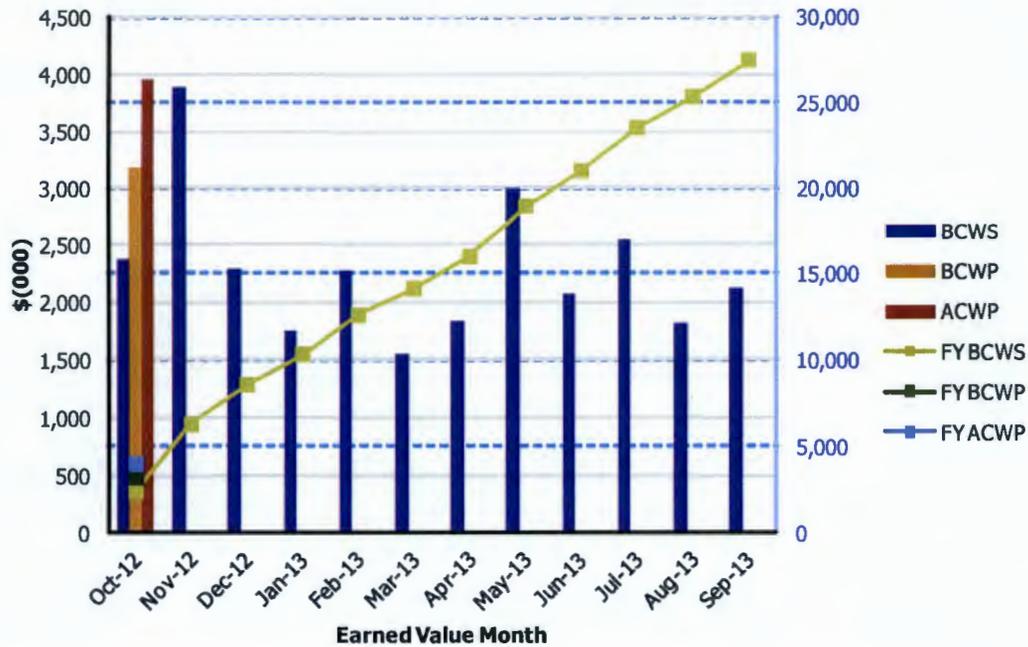
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: October 2013

**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					\$6,266				
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	\$208,296	\$210,254	\$227,308	1.01	0.92					

Waste Treatment Plant Project - Percent Complete Status Through October 2012															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations 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	1,172.4	703.8	60%	291.3	218.4	75%	259.7	215.4	83%	444.8	262.7	59%	176.6	7.3	4%
Analytical Lab	326.5	210.3	64%	68.8	49.8	72%	56.2	45.4	81%	132.9	100.7	76%	68.5	14.4	21%
Balance of Facilities	536.4	281.4	52%	89.1	67.3	76%	71.6	46.8	65%	223.0	155.0	70%	152.7	12.4	8%
High-Level Waste	1,118.0	926.2	83%	383.9	326.8	85%	420.7	350.1	83%	308.8	245.0	79%	4.6	4.4	96%
Pretreatment	1,627.9	1,417.7	87%	818.5	651.1	80%	415.6	382.1	92%	385.6	378.9	98%	8.3	5.7	69%
Shared Services	4,179.6	3,654.8	87%	912.7	855.1	94%	569.1	500.0	88%	1,318.2	1,173.6	89%	207.2	135.0	65%
Total WTP w/o UB	8,960.8	7,194.2	80%	2,564.3	2,168.5	85%	1,792.9	1,539.8	86%	2,813.3	2,315.9	82%	617.9	179.2	29%
Undistributed Budget	1,982.9	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,943.7	7,194.2	66%	2,564.3	2,168.5	85%	1,792.9	1,539.8	86%	2,813.3	2,315.9	82%	617.9	179.2	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.