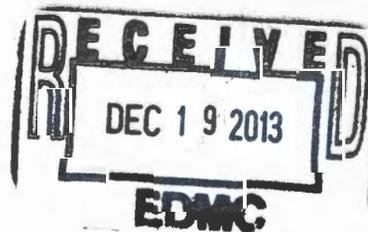


FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
December 2013



Office of River Protection**Consent Decree 08-5085-FVS
Monthly Summary Report****December 2013 (Monthly Summary Report/Project Earned Value Management System
reflects October 2013 information)**

| Page | Topic | Leads |
|-------------|--|------------------------------------|
| 1 | Statistics/Status | James Lynch/Dan McDonald/Jeff Lyon |
| 2 | Single-Shell Tank (SST) Retrieval and Closure – D-00B-01, D-00B-02, D-00B-03, D-00B-04 | Chris Kemp/Jeff Lyon |
| 3 | Tank Waste Retrieval Work Plan Status – Consent Decree Appendix C | Chris Kemp/Jeff Lyon |
| 4 | SST Retrieval Monthly and Fiscal Year Earned Value Management System Data | Kathy Higgins/Jeff Lyon |
| 5 | Waste Treatment and Immobilization Plant (WTP) Project – D-00A-06, D-00A-17, D-00A-01 | Delmar Noyes/Dan McDonald |
| 8 | WTP Pretreatment Facility – D-00A-18, D-00A-19, D-00A-13, D-00A-14, D-00A-15, D-00A-16 | Wahed Abdul/Dan McDonald |
| 11 | High-Level Waste Facility – D-00A-20, D-00A-21, D-00A-02, D-00A-03 | Wahed Abdul/Dan McDonald |
| 14 | Low-Activity Waste Facility – D-00A-07, D-00A-08, D-00A-09 | Jeff Bruggeman/Dan McDonald |
| 16 | Balance of Facilities – D-00A-12 | Jason Young/Dan McDonald |
| 18 | Analytical Laboratory – D-00A-005 | |



| Milestone | Title | Due Date | Completion Date | Status |
|-------------------------|---|------------|-----------------|-----------|
| Fiscal Year 2013 | | | | |
| 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 elevation of 37 feet in HLW Fac. | 12/31/2012 | 10/24/2012 | Completed |
| Fiscal Year 2014 | | | | |
| 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 | 08/24/2011 | Completed |
| Fiscal Year 2015 | | | | |
| D-00A-07 | LAW Facility Construction Substantially Complete | 12/31/2014 | | On-going* |
| D-00A-19 | Complete elevation 98 feet Concrete Floor Slab Placements in PT Facility | 12/31/2014 | | On-going* |

DOE = U.S. Department of Energy.
 Ecology = Washington State Department of Ecology.
 Fac. = facility.
 HLW = high-level waste.
 LAB = Analytical Laboratory.
 LAW = low-activity waste.
 PT = pretreatment.
 SST = single-shell tank.
 WMA-C = C-Farm Waste Management Area.

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

Consent Decree Reports/Reviews

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

D-00C-02 series, Submit to State of Washington and State of Oregon Monthly Summary Reports, Due: End of Each Month, Status: On-going.

D-006-00-A, Meet Approximately Every Three Years after Entry of Decree to review requirements of the Consent Decree, Held: December 10, 2013, Status: Completed.

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, Sent: November 8, 2013, Status: Completed.

Single-Shell Tank Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining Single-Shell Tanks (SST) in C-Farm Waste Management Area (WMA-C), Due: September 30, 2014, Status: On-going.* Please see issues.

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: To be determined, pursuant to Section IV-B-5 of the Consent Decree, U.S. Department of Energy (DOE) must submit to the Washington State of Ecology (Ecology) a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix C, Part 1, of the Consent Decree. Completed for SST C-104 on March 21, 2013, via DOE Office of River Protection (ORP) letter 13-TF-0018. Completed for SST C-108 on May 1, 2013, via ORP letter 13-TF-0025. Completed for SST C-109 on June 4, 2013, via ORP letter 13-TF-0037.

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

D-00B-03, Initiate Startup of Retrieval in At Least five of nine SSTs in D-00B-02, Due: December 31, 2017, Status: On-going.

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

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: To be determined.

Significant Past Accomplishments:

- Continued installation of equipment for the Mobile Arm Retrieval System-Vacuum (MARS-V) at C-105, installation of the portable instrument valve box, and the hose-in-hose transfer line systems continues.
- Completed removal of failed C-107 slurry pump. Initiated installation of the new replacement slurry pump at C-107.
- Initiated hard heel retrieval of C-112 by addition of 12 thousand gallons of sodium hydroxide for recirculation and dissolution of the solids.
- Initiated construction activities for installation of equipment for hard heel removal system at C-111.

Significant Planned Activities in the Next 6 Months:

- Complete installation of the MARS-V in C-105
- Complete replacement of the C-107 slurry pump
- Submit retrieval data report for C-108 to Ecology
- Begin start-up of hard heel retrieval in C-111 using caustic dissolution.

Issues:

*DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

Tank Waste Retrieval Work Plan Status

| Tank | TWRWP | Expected Revisions | Retrieval Technology | Second Technology | Third Technology |
|-------|--------------------|--------------------|-----------------------------|---|--------------------------------|
| C-101 | RPP-22520, Rev. 7 | Complete | Modified Sluicing with ERSS | High-Pressure Water with ERSS | - |
| C-102 | RPP-22393, Rev. 6A | In Process | Modified Sluicing with ERSS | High-Pressure Water with ERSS | - |
| C-104 | RPP-22393, Rev. 6A | Complete | Modified Sluicing | Chemical Dissolution, retrieval complete per 13-TF-0018 | - |
| C-105 | RPP-22520, Rev. 7 | Complete | MARS-V | MARS-V-High Pressure Water | - |
| C-107 | RPP-22393, Rev. 6A | Complete | MARS-S | MARS-S -High Pressure Water | - |
| C-108 | RPP-22393, Rev. 6A | Complete | Modified Sluicing | Chemical Dissolution, retrieval complete per 13-TF-0025 | - |
| C-109 | RPP-21895, Rev. 5 | Complete | Modified Sluicing | Chemical Dissolution, retrieval complete per 13-TF-0037 | - |
| C-110 | RPP-33116, Rev. 2 | In process | Modified Sluicing | Mechanical Waste Conditioning | High Pressure Water |
| C-111 | RPP-37739, Rev. 1 | Complete | Modified Sluicing | High pressure water with ERSS | Chemical Dissolution with ERSS |
| C-112 | RPP-22393, Rev. 6A | Complete | Modified Sluicing | Chemical Dissolution | - |

ERSS = Extended Reach Sluicing System.
MARS = Mobile Arm Retrieval System.
S = sluicing.
TWRWP = Tank Waste Retrieval Work Plan.
V = vacuum.

Significant Accomplishments:

Revised Tank Waste Retrieval Work Plan (TWRWP) RPP-22393 from Rev. 6A to Rev. 7.

Modification notice 2013-10 for RPP-33116, Rev. 2 was approved. The notice updates the TWRWP with necessary changes for groundwater monitoring.

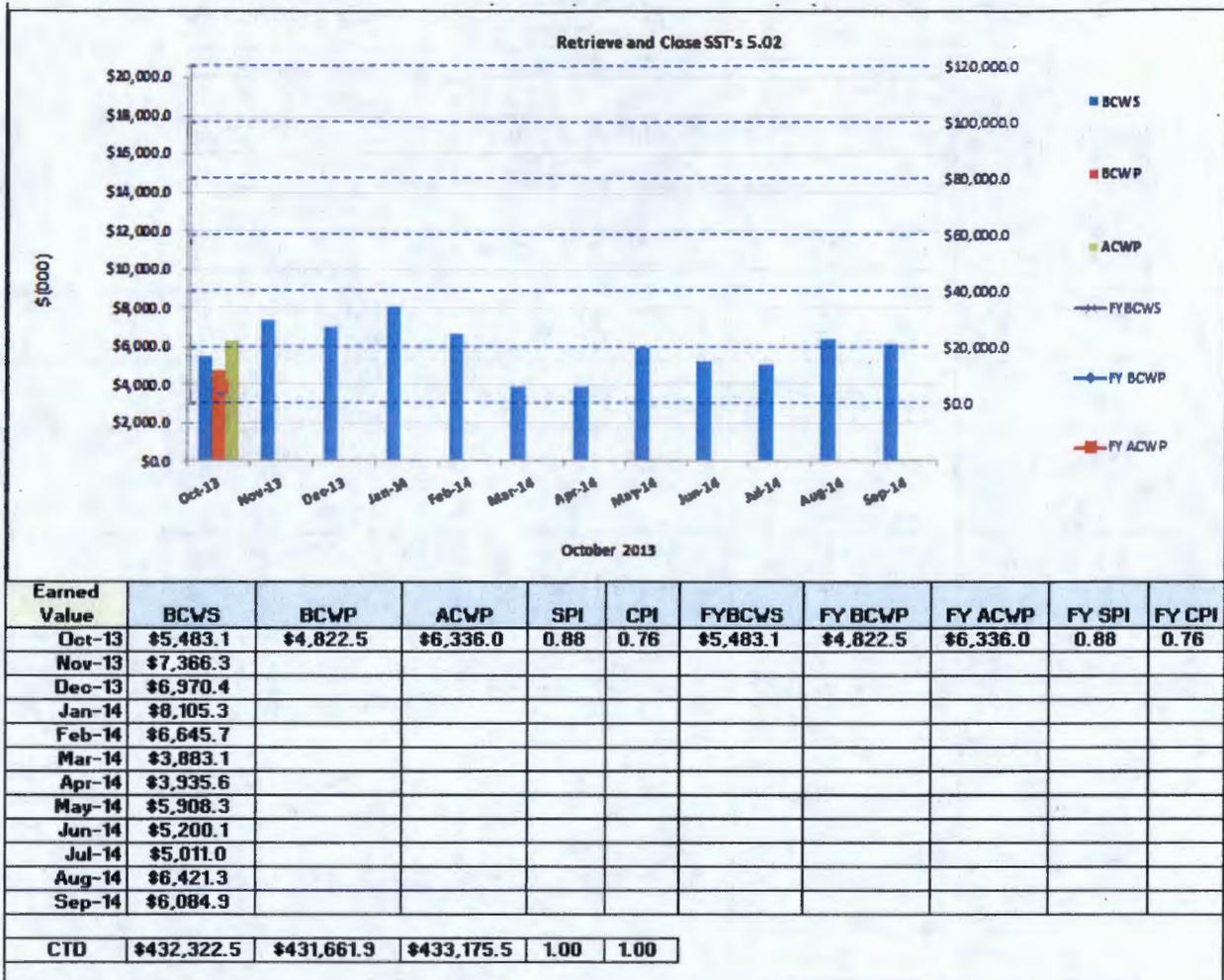
Significant Planned Activities in the Next 6 Months:

Modify TWRWP RPP-22520 with revised supernate concentrations for groundwater risk estimates associated with C-105 retrieval.

Issues:

None.

Single-Shell Tank Retrieval Monthly and Fiscal Year Earned Value Management System Data



Retrieval and Close Single-Shell Tanks

Schedule Variance of (\$441K):

The unfavorable schedule variance is primarily due to:

- Reallocation of construction resources from C-111 to SST C-112 in order to meet retrieval readiness by mid-November 2013
- Delays to the Mobile Arm Retrieval System-Vacuum (MARS-V) installation and startup activities caused by high winds and late completion of route maps for crane placement.

Cost Variance of (\$1,513.5K):

The unfavorable cost variance is primarily due to:

- Several unsuccessful attempts to remove the C-107 slurry pump
- Increased labor required to respond to equipment problems, perform winterization activities, and training on the new water skid.

Waste Treatment and Immobilization Plant Project

| Number | Title | Due Date | Status |
|----------|--|------------|-----------|
| D-00A-06 | Complete Methods Validations | 12/31/2017 | Ongoing** |
| D-00A-17 | Hot Start of Waste Treatment Plant | 12/31/2019 | Ongoing* |
| D-00A-01 | Achieve Initial Plant Operations for WTP | 12/31/2022 | Ongoing* |

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,301 full-time equivalent contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 620 craft, 399 nonmanual, and 155 subcontractor full-time equivalent personnel working at the WTP construction site (all facilities).

As of October 2013, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) (collectively LBL) were 65-percent complete, design and engineering was 79-percent complete, procurement was 83-percent complete, construction was 73-percent complete, and startup and commissioning was 11-percent complete.

In September 2012, the baseline change proposal that implemented the LAW, LAB, and BOF replan was incorporated into the project over-target 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 Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-Year Interim Work Plan was incorporated into the project over-target baseline and the percent-complete values for PT and HLW Facilities were frozen at the September 2012 rate. The WTP Project continues to progress in accordance with the LBL replan and PT/HLW 2-Year Interim Work Plan.

In October 2013, the cumulative to-date WTP Project schedule variance was a negative \$54.7 million, and the cumulative to-date WTP Project cost variance was a negative \$17.6 million. The major contribution to the cumulative to-date cost and schedule variance is based on the progress of the LBL replan and PT/HLW 2-Year Interim Work Plan.

The following is the status of project matters through the end of October.

Significant Past Accomplishments:

- BNI conducted an assessment of PT Facility impacts resulting from stopping construction (PT)
- Submitted the Probabilistic Risk Analysis Plan to DOE-Headquarters for review (PT)
- Issued first HLW hydrogen in piping and ancillary vessels (HPAV) hydrogen generation rate calculation (HLW)
- Performed a mock-up of the castable refractory around the melter pour spout shroud (LAW)

- Installed over 700 linear feet of instrument tubing and 2,400 linear feet of electrical conduit and pulled over 17,300 linear feet of cable (LAW)
- Completed construction of the Chiller Compressor Plant (BOF)
- Started second shift for radioactive liquid waste disposal (RLD) vessel weld repairs (LAB).

Significant Planned Actions in the Next 6 Months:

- Assess the resumption of design, procurement, and construction for HLW (HLW)
- Install RLD Vessel 8T at the test platform (PT/HLW)
- Complete reliability validation process reviews (HLW)
- Develop vessel-specific particle characteristics report for erosion/corrosion (PT/HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of ASX System (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete repairs to RLD vessels (LAB).

Issues:

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues relevant to the PT and HLW Facilities include, among others, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

** In October 2013, DOE notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet milestone A-6.

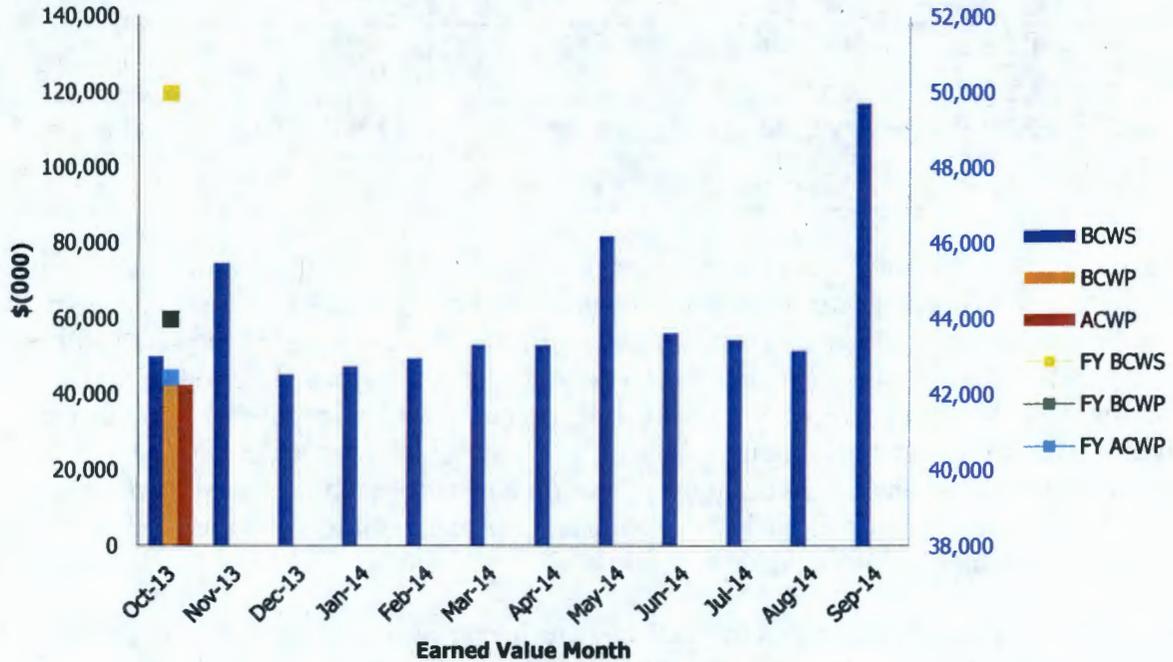
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$49,959 | \$43,981 | \$42,448 | 0.88 | 1.04 | \$49,959 | \$43,981 | \$42,448 | 0.88 | 1.04 |
| Nov 2013 | \$74,688 | | | | | | | | | |
| Dec 2013 | \$45,182 | | | | | | | | | |
| Jan 2014 | \$47,290 | | | | | | | | | |
| Feb 2014 | \$49,428 | | | | | | | | | |
| Mar 2014 | \$53,046 | | | | | | | | | |
| Apr 2014 | \$52,930 | | | | | | | | | |
| May 2014 | \$81,726 | | | | | | | | | |
| Jun 2014 | \$56,083 | | | | | | | | | |
| Jul 2014 | \$54,292 | | | | | | | | | |
| Aug 2014 | \$51,488 | | | | | | | | | |
| Sep 2014 | \$116,961 | | | | | | | | | |
| PTD | \$7,789,239 | \$7,741,476 | \$7,760,610 | 0.99 | 1.00 | | | | | |

Pretreatment Facility

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

The PT Facility will separate radioactive tank waste into HLW and LAW fractions and transfer each waste type to the respective vitrification facility for immobilization. As of September 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. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent-complete status since September 2012. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the PT/HLW 2-Year Interim Work Plan.

Technical review teams continue to evaluate open technical issues. Construction of the mixing test platform continues in preparation for full-scale testing. Engineering specifications for full-scale testing have been prepared and are undergoing a multidiscipline review. National laboratories are developing a test plan, simulant, and instrumentation requirements. BNI is developing probabilistic risk assessment plans and project execution plans to resolve technical issues regarding criticality; hydrogen in vessels; and HPAV. The plans are undergoing comment resolution.

BNI has completed a preliminary evaluation of the impact of a proposed change to the natural phenomenon hazards design criteria that would double the ash fall criteria. This design criteria revision has the potential to impact facility design and heating, ventilating, and air-conditioning (HVAC) system design.

Significant Past Accomplishments:

- Continued construction at Full-Scale Test Facility with placement of the RLD-8T vessel into position
- Received 90 percent draft Full Scale Test Plan from Pacific Northwest National Laboratory
- BNI conducted an assessment of PT Facility impacts resulting from stopping construction
- Submitted the Probabilistic Risk Analysis Plan to DOE-Headquarters for review
- Issued draft procedure for conducting failure mode, effects, and criticality analysis.

Significant Planned Actions in the Next 6 Months:

- Update basis of design for safety classification regarding seismic analysis of vessels
- Issue sampling action plan to determine sampling accuracy
- Define pulse-jet mixing control strategy
- Start jet impingement and slurry pot testing for erosion
- Review flammable gas generation, retention, and release from sediments in vessels
- Develop decision process for vessel structural modifications
- Develop vessel-specific particle characteristics report for erosion/corrosion
- Issue engineering specification for vessel testing
- Receive of final test plan, simulant composition, and instrument list from Pacific Northwest National Laboratory.

Issues:

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues relevant to the PT and HLW Facilities include, among others, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed specification.

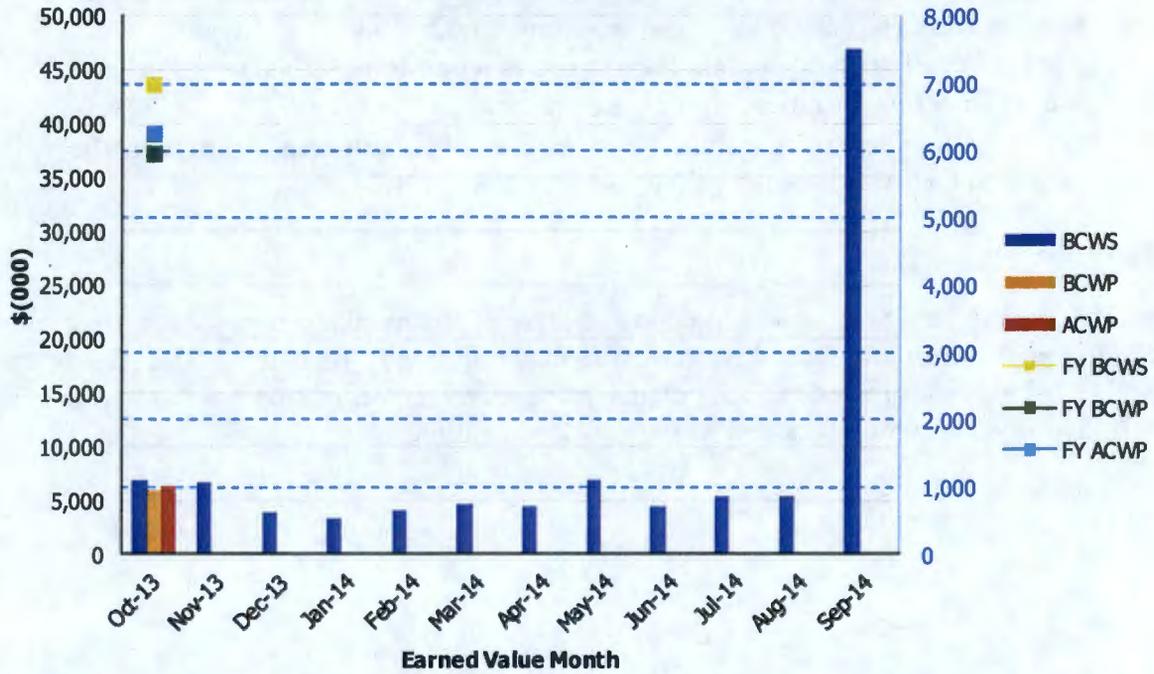
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$6,954 | \$5,927 | \$6,224 | 0.85 | 0.95 | \$6,954 | \$5,927 | \$6,224 | 0.85 | 0.95 |
| Nov 2013 | \$6,722 | | | | | | | | | |
| Dec 2013 | \$3,865 | | | | | | | | | |
| Jan 2014 | \$3,399 | | | | | | | | | |
| Feb 2014 | \$4,113 | | | | | | | | | |
| Mar 2014 | \$4,695 | | | | | | | | | |
| Apr 2014 | \$4,526 | | | | | | | | | |
| May 2014 | \$6,845 | | | | | | | | | |
| Jun 2014 | \$4,421 | | | | | | | | | |
| Jul 2014 | \$5,437 | | | | | | | | | |
| Aug 2014 | \$5,459 | | | | | | | | | |
| Sep 2014 | \$46,949 | | | | | | | | | |

| | | | | | |
|-----|-------------|-------------|-------------|------|------|
| PTD | \$1,534,244 | \$1,515,936 | \$1,513,969 | 0.99 | 1.00 |
|-----|-------------|-------------|-------------|------|------|

High-Level Waste 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 | Ongoing * |
| D-00A-03 | Start HLW Facility Cold Commissioning | 6/30/2018 | Ongoing * |
| D-00A-04 | HLW Facility Hot Commissioning Complete | 12/31/2019 | Ongoing * |

The HLW Facility will receive the separated HLW concentrate from the 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 before shipment to interim storage.

As of September 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 4-percent complete. Construction, procurement, and production engineering activities have significantly slowed down, resulting in minimal change to the percent completion status since September. BNI and DOE continue to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the PT/HLW 2-Year Interim Work Plan.

Technical review teams continue to evaluate open technical issues with priority placed on the resumption of HLW construction. Construction activities include the placement of walls at the 37-ft elevation, installation of structural steel at the 58-ft and 77-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. Engineering efforts are focused on resolution of Priority Level 1 findings. The Environmental and Nuclear Safety Group is in the process of developing the safety design strategy as part of the initiative to resume design, procurement, and construction.

The path forward to ramp up HLW production engineering and construction is separated into three actions: Conduct engineering studies to resolve technical safety issues; perform risk assessment for the issues noted in Priority Level 1 findings, reliability validation process, project issues evaluation reporting, etc.; and perform assessment of BNI process improvement for the readiness to proceed.

BNI is evaluating the impact of a proposed change to the natural phenomenon hazards design criteria that would double the ash fall criteria. This design criteria revision has the potential to impact facility design and HVAC system design.

Significant Past Accomplishments:

- Issued first HLW HPAV hydrogen generation rate calculation
- Awarded second high-efficiency particulate air (HEPA) filter qualification subcontract
- Completed preliminary qualitative risk assessment run of the first HLW route for HPAV held summit meeting for requirements implementation matrix and failure mode, effects, and criticality analysis
- Held HEPA filter qualification alignment meeting with one supplier and Mississippi State University HLW design review has completed 8 systems out of 14 systems targeted for review

Significant Planned Actions in the Next 6 Months:

- Assess the resumption of design, procurement, and construction for HLW
- Complete reliability validation process reviews
- Develop HLW-specific safety design strategy
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility) of HLW
- Complete draft analysis of single-point failures in support of failure mode analysis
- Complete conceptual design of in-service inspection
- Complete plan for erosion/corrosion risk evaluation for HLW
- Perform HEPA filter qualification testing at Mississippi State University.

Issues:

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone. Technical issues relevant to the PT and HLW Facilities include, among others, pulse-jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed specification.

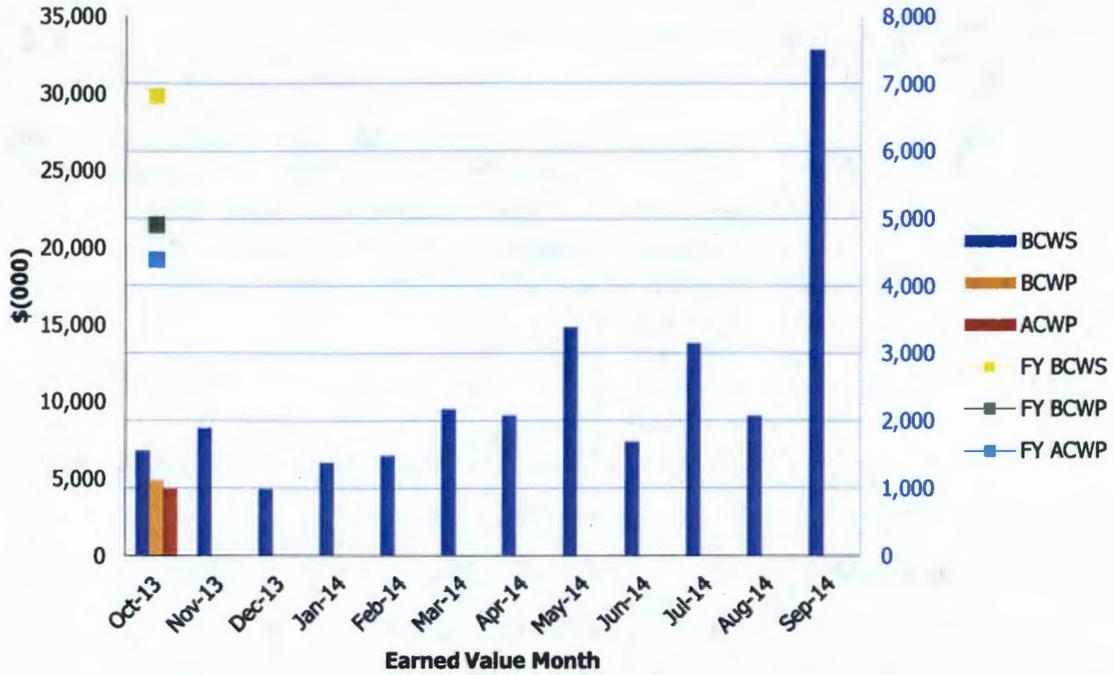
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$6,818 | \$4,914 | \$4,390 | 0.72 | 1.12 | \$6,818 | \$4,914 | \$4,390 | 0.72 | 1.12 |
| Nov 2013 | \$8,270 | | | | | | | | | |
| Dec 2013 | \$4,314 | | | | | | | | | |
| Jan 2014 | \$6,010 | | | | | | | | | |
| Feb 2014 | \$6,472 | | | | | | | | | |
| Mar 2014 | \$9,502 | | | | | | | | | |
| Apr 2014 | \$9,106 | | | | | | | | | |
| May 2014 | \$14,818 | | | | | | | | | |
| Jun 2014 | \$7,379 | | | | | | | | | |
| Jul 2014 | \$13,796 | | | | | | | | | |
| Aug 2014 | \$9,052 | | | | | | | | | |
| Sep 2014 | \$32,827 | | | | | | | | | |
| PTD | \$993,620 | \$994,093 | \$987,260 | 1.00 | 1.01 | | | | | |

Low-Activity Waste Facility

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

The LAW Facility will process LAW that 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 of on the Hanford Site in the Integrated Disposal Facility. As of October 2013, the LAW Facility is 65-percent complete overall, with engineering design 79-percent complete, procurement 85-percent complete, construction 68-percent complete, and startup and commissioning 6-percent complete.

Significant Past Accomplishments:

- Performed a mock-up of the castable refractory around the melter pour spout shroud
- Installed the electrical bus for the container bogie carts
- Issued caustic scrubber seismic calculation to vendor releasing material procurement
- Received thermal catalytic oxidizer process design submittal from IONEX, completed the review of equipment received from SA Technologies, and held the 30 percent design review
- Hydro-tested over 4,000 linear feet of piping, installed over 700 linear feet of instrument tubing and 2,400 linear feet of electrical conduit and pulled over 17,300 linear feet of cable.

Significant Planned Actions in the Next 6 Months:

- Complete installation of autosampling system
- Receive HEPA preheaters for LAW secondary offgas/vessel vent process system
- Continue refractory brick installation in the melters
- Complete hazard analysis for the melter and melter off-gas.

Issues:

* DOE has notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet this Consent Decree milestone.

** In October 2013, DOE notified the State of Washington and State of Oregon that a serious risk has arisen that DOE may be unable to meet Consent Decree milestones A-8 and A-9.

EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$10,160 | \$7,952 | \$8,677 | 0.78 | 0.92 | \$10,160 | \$7,952 | \$8,677 | 0.78 | 0.92 |
| Nov 2013 | \$19,013 | | | | | | | | | |
| Dec 2013 | \$12,569 | | | | | | | | | |
| Jan 2014 | \$13,444 | | | | | | | | | |
| Feb 2014 | \$12,976 | | | | | | | | | |
| Mar 2014 | \$11,388 | | | | | | | | | |
| Apr 2014 | \$11,129 | | | | | | | | | |
| May 2014 | \$19,428 | | | | | | | | | |
| Jun 2014 | \$18,226 | | | | | | | | | |
| Jul 2014 | \$9,943 | | | | | | | | | |
| Aug 2014 | \$9,406 | | | | | | | | | |
| Sep 2014 | \$9,120 | | | | | | | | | |
| PTD | \$814,658 | \$797,442 | \$851,957 | 0.98 | 0.94 | | | | | |

Balance of Facilities

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

The BOF provides services and utilities to support operation of the main production facilities: PT, HLW, LAW, and LAB. As of October 2013, BOF is 59-percent complete overall, with engineering design 80-percent complete, procurement 73-percent complete, construction 78-percent complete, and startup and commissioning 12-percent complete.

Commercial grade dedication activities in support of the emergency turbine generator procurement are the primary focus for design engineering and the procurement organization. Construction and startup efforts are focused on completion of the Glass Former Facility, construction of the Standby Diesel Generator (SDG) Facility, and turnover of the nonradioactive liquid waste disposal (NLD) system from construction to startup. Excavation activities for the SDG Building are complete, and the foundation for the facility is nearing completion. The construction organization has performed the 8-week walk down for the NLD system and is completing activities for turnover to the start-up organization for component level testing.

Significant Past Accomplishments:

- Completed construction of the Chiller Compressor Plant
- Pulled 520 linear feet of cable and completed 509 cable terminations in the Glass Former Facility
- Completed over 1,140 cubic yards of earthwork, primarily to support construction of the SDG Facility
- Completed leak testing of the storm line and catch basins at the SDG.

Significant Planned Actions in the Next 6 Months:

- Complete construction of the Glass Former Storage Facility
- Turnover the NLD system from construction to startup
- Complete component testing of the low-voltage, medium-voltage, and fire detection systems for switchgear Buildings 87 and 91.

Issues:

No major issues at this time.

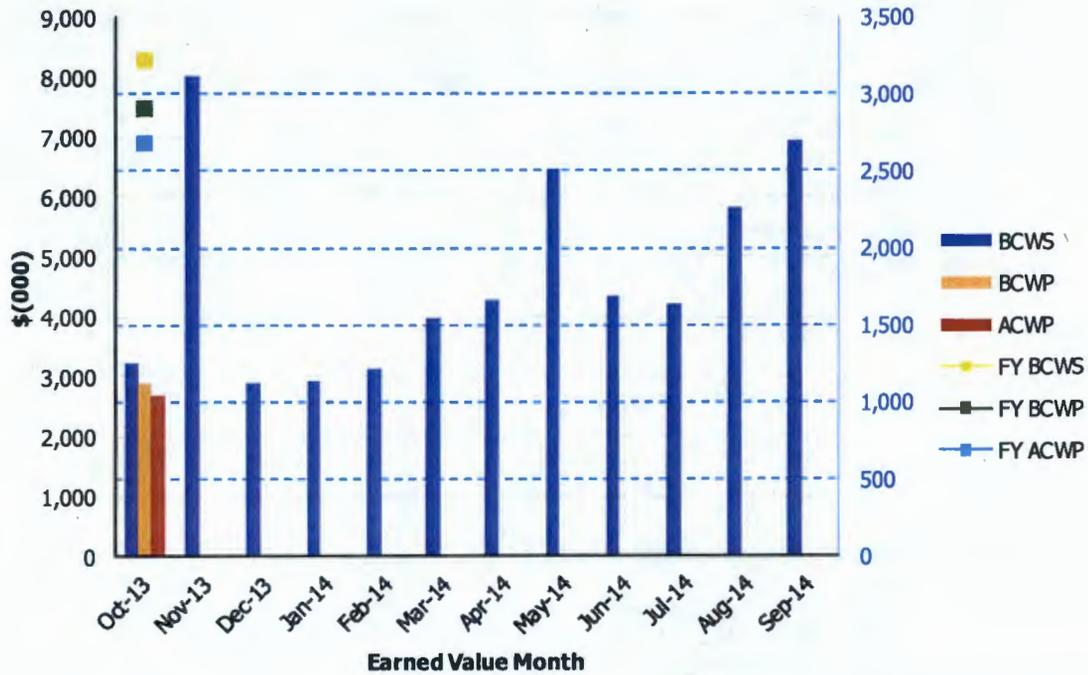
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$3,218 | \$2,901 | \$2,679 | 0.90 | 1.08 | \$3,218 | \$2,901 | \$2,679 | 0.90 | 1.08 |
| Nov 2013 | \$8,025 | | | | | | | | | |
| Dec 2013 | \$2,904 | | | | | | | | | |
| Jan 2014 | \$2,934 | | | | | | | | | |
| Feb 2014 | \$3,119 | | | | | | | | | |
| Mar 2014 | \$3,957 | | | | | | | | | |
| Apr 2014 | \$4,277 | | | | | | | | | |
| May 2014 | \$6,468 | | | | | | | | | |
| Jun 2014 | \$4,329 | | | | | | | | | |
| Jul 2014 | \$4,212 | | | | | | | | | |
| Aug 2014 | \$5,827 | | | | | | | | | |
| Sep 2014 | \$6,945 | | | | | | | | | |
| PTD | \$329,931 | \$320,550 | \$314,050 | 0.97 | 1.02 | | | | | |

Analytical Laboratory

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

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of October 2013, the LAB is 71-percent complete overall, with engineering design 77-percent complete, procurement 87-percent complete, construction 85-percent complete, and startup and commissioning 23-percent complete.

Engineering efforts are focused on supporting RLD vessel repairs and finalizing the electrical engineering portions of the LAB design. Construction efforts are focused on installation of instrument tubing and electrical commodities to support the completion of LAB construction.

Significant Past Accomplishments:

- Started second shift for RLD vessel weld repairs
- Started installation of penetration seals
- Pulled approximately 17,000 linear feet of cable.

Significant Planned Actions in the Next 6 Months:

- Receive instrument and transport lines for the exhaust stack monitors
- Complete repairs to RLD vessels.

Issues:

No major issues at this time.

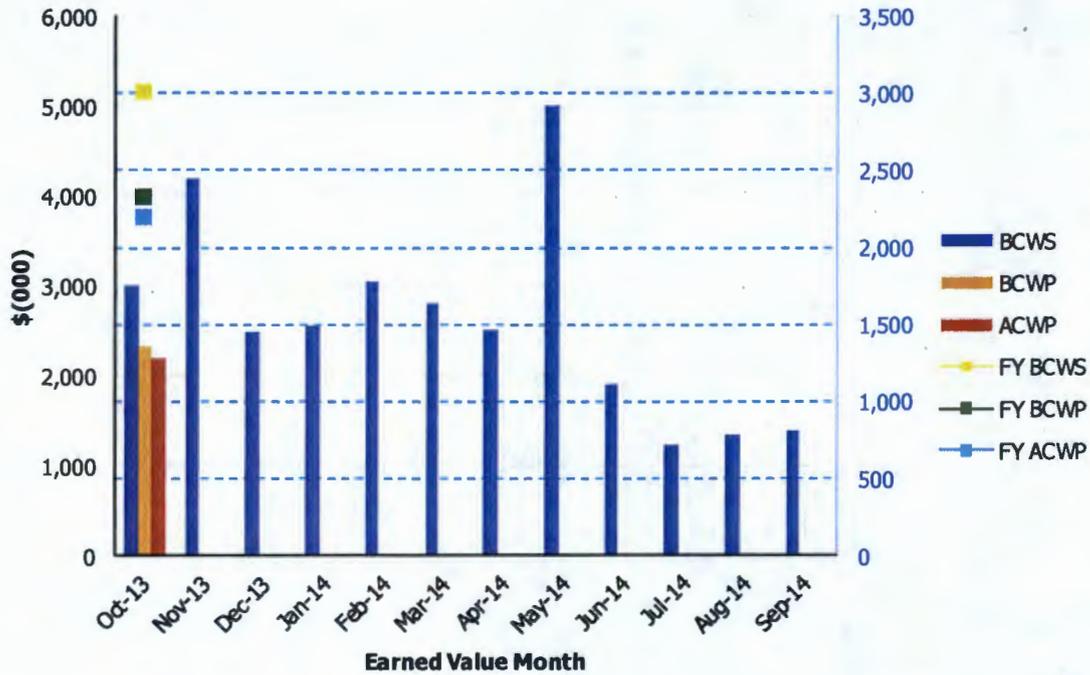
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2014 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 2013 | \$3,008 | \$2,328 | \$2,196 | 0.77 | 1.06 | \$3,008 | \$2,328 | \$2,196 | 0.77 | 1.06 |
| Nov 2013 | \$4,188 | | | | | | | | | |
| Dec 2013 | \$2,481 | | | | | | | | | |
| Jan 2014 | \$2,553 | | | | | | | | | |
| Feb 2014 | \$3,051 | | | | | | | | | |
| Mar 2014 | \$2,802 | | | | | | | | | |
| Apr 2014 | \$2,501 | | | | | | | | | |
| May 2014 | \$4,999 | | | | | | | | | |
| Jun 2014 | \$1,894 | | | | | | | | | |
| Jul 2014 | \$1,234 | | | | | | | | | |
| Aug 2014 | \$1,351 | | | | | | | | | |
| Sep 2014 | \$1,381 | | | | | | | | | |
| PTD | \$240,046 | \$235,411 | \$254,700 | 0.98 | 0.92 | | | | | |

| Waste Treatment Plant Project - (LBL) Percent Complete Status Through October 2013 | | | | | | | | | | | | | | | |
|--|--|---|---------------|---|---|---------------|---|---|---------------|---|---|---------------|---|---|---------------|
| (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 | 1,219.6 | 797.4 | 65% | 313.7 | 247.9 | 79% | 265.0 | 225.8 | 85% | 463.1 | 313.8 | 68% | 177.9 | 9.9 | 6% |
| Analytical Lab | 332.5 | 235.4 | 71% | 72.2 | 55.9 | 77% | 54.6 | 47.4 | 87% | 136.7 | 116.6 | 85% | 68.9 | 15.6 | 23% |
| Balance of Facilities | 543.3 | 320.6 | 59% | 94.3 | 75.6 | 80% | 71.2 | 51.9 | 73% | 222.9 | 174.1 | 78% | 154.9 | 19.0 | 12% |
| Total LBL | 2,095.4 | 1,353.4 | 65% | 480.2 | 379.4 | 79% | 390.8 | 325.1 | 83% | 822.7 | 604.5 | 73% | 401.7 | 44.4 | 11% |
| PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts) | | | | | | | | | | | | | | | |
| High-Level Waste | 1,478.6 | 922.1 | 62% | 364.4 | 325.2 | 89% | 433.9 | 349.4 | 81% | 561.1 | 243.2 | 43% | 119.2 | 4.4 | 4% |
| Pretreatment | 2,517.3 | 1,410.5 | 56% | 761.7 | 645.8 | 85% | 679.9 | 360.4 | 56% | 890.0 | 378.6 | 43% | 185.8 | 5.6 | 3% |
| Shared Services | 4,726.9 | 3,632.6 | 77% | 1,047.0 | 977.9 | 93% | 451.7 | 395.0 | 87% | 1,436.5 | 1,143.0 | 80% | 453.5 | 133.2 | 29% |
| Total HLW/PT/SS | 8,722.8 | 5,965.2 | 68% | 2,173.1 | 1,948.9 | 90% | 1,565.5 | 1,124.8 | 72% | 2,887.6 | 1,764.8 | 61% | 758.5 | 143.2 | 19% |
| Undistributed Budget | 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 | n/a |
| Total WTP | 10,818.2 | 7,318.6 | 68% | 2,653.3 | 2,328.3 | 88% | 1,956.3 | 1,449.9 | 74% | 3,710.3 | 2,369.3 | 64% | 1,160.2 | 187.6 | 16% |

Source: Preliminary WTP Contract Performance Report - Format 1, Data for October 2013

Note: In September 2012, the LBL Replan was incorporated into the project OTB 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 OTB baseline resulting in decreases to the PT/HLW/SS facility budgets, this was due to a work scope shift from the Distributed budget to UB. Percent Complete Values shown for PT, HLW and SS have been frozen with the September 2012 values due to the Interim Work Plan and budgets being moved into UB. UB value for the project for PT/HLW/SS is \$2,014M. The percent complete values for the Total WTP are the current total LBL BCWP added to the frozen HLW/PT/SS BCWP values.