Utilization of FY13 Supplemental Funding to Support WVDP
October 2013

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October 23, 2013
### FY13 Incremental Funding Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost (in thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32D-1 Modifications</td>
<td>250</td>
</tr>
<tr>
<td>High-level Waste (HLW) MPC Materials</td>
<td>860</td>
</tr>
<tr>
<td>Main Plant Process Building (MPPB) Ventilation System</td>
<td>750</td>
</tr>
<tr>
<td>MPPB BROKK</td>
<td>270</td>
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<tr>
<td>Expanded Lab (E-Lab) Replacement</td>
<td>800</td>
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<tr>
<td>Vit Hill Demo</td>
<td>190</td>
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<tr>
<td>Demolition Trackhoe</td>
<td>710</td>
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<tr>
<td>Low-level Waste (LLW) Shipping</td>
<td>1,275</td>
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<tr>
<td>Melter Prep</td>
<td>300</td>
</tr>
<tr>
<td>Mixed Low-level Waste (MLLW) Shipping</td>
<td>1,465</td>
</tr>
<tr>
<td>Kistner Boxes</td>
<td>193</td>
</tr>
<tr>
<td>New Gen Waste Shipments</td>
<td>744</td>
</tr>
<tr>
<td>Electronic Data Management System (EDMS)</td>
<td>623</td>
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<tr>
<td>Replacement</td>
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<td>Unallocated</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$9,930</strong></td>
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</tbody>
</table>

*Extra funding received May 2013*

*All work completed by November 2013*
Tank 32D-1

Upgraded on-site storage tank for potable and industrial water

- Installed insulation on tank to reduce freeze potential and decrease heat loss
- Supports elimination of steam heat system (overall site energy savings)
Procured materials for 8 specialty, long-lead stainless steel multi-purpose casks for long-term storage of high-level waste (HLW)

- Ensures cask availability for start up of HLW canister packaging

Material procurement supports accelerated fabrication and delivery of MPCs for May 2014
Accelerated purchase of remote demolition equipment

- Earlier than planned purchase increases remote equipment availability for work in high-hazard areas
- Enables work to begin 6 months earlier than planned
- Increases worker safety through use of remote-operated equipment
Procured new ventilation units for Main Plant Process Building (MPPB)

- Aging ventilation system with risk of equipment failure
- Procured portable ventilation skids planned for FY14 to support MPPB deactivation and ensure continued safe operation
- Will accelerate conversion to safer, more reliable system 6 months early
Environmental testing requirements no longer support continued operation of the Expanded Laboratory. E-Lab demolished October 2013

Relocated environmental personnel and initiated demolition

- Reduces site footprint while ensuring available testing capacity
- Energy efficiency and space consolidation realized
- ~20% annual energy savings
Completed demolition of the former Vit Hill Office and Break Area

- Break room facilities were vacated in early 2013 due to deteriorating condition
- Facility demolition completed September 2013
Purchased Trackhoe for facility demolition activities

- Heavy equipment purchase supports future facility demolition activities
- Overall cost-savings realized by eliminating need for leased equipment
Low-level Waste Shipping

Accelerated off-site shipments of low-level waste (LLW)

- Reduced site’s inventory of legacy LLW
- Increased indoor available capacity for storage and processing of problematic waste containers
- Approximately 29,400 ft³ of legacy waste shipped
- Completed 48% more than planned shipments of all waste types
Melter Shipment Preparations

Prepared the Melter for off-site shipment

- Supports reduction of site inventory of legacy LLW
- Funding used for package preparation, grout recipe development, grouting and soliciting proposals for shipment

Melter shipment preparations include weighing the container, preparing the box for grouting, and grout placement.
Mixed Low-level Waste Shipping

Accelerated processing and off-site shipments of mixed low-level waste (MLLW)

- Consolidated Site Treatment Plan waste and shipped processed waste off-site for disposal
- Shipped 5 trucks (4,012 ft³) of newly generated and legacy MLLW
- Reduced inventory of legacy mixed low-level waste to 3 containers

Off-site waste shipments reduced the WVDP’s inventory and waste management responsibilities
Kistner Boxes

Purchased waste boxes to package transuranic (TRU) waste inside MPPB

- Supports accelerated packaging and removal of 80 drums of waste stored inside the MPPB
- Significant cost-savings realized by using boxes instead of shield drums
- Supports facility deactivation work inside the MPPB
Newly generated waste is packaged and shipped off-site for disposal

- Additional funding applied to waste packaging and disposal to support ongoing facility reduction activities
- Approximately 41,500 ft³ of newly generated LLW shipped during campaign
- Packaging and disposing of waste at point of generation reduces waste management costs
Replacement of electronic document management system (EDMS)

- Vital document management system for controlled documents, design documents, external correspondence, electronic notifications, and periodic reviews
- Aging system has already experienced an operational failure and is no longer supported by vendor
- Replacement will ensure operational stability and reduce risk of failure

The vast number of documents and information stored on EDMS will be migrated to a new document management system
Initiated construction of storage pad for HLW canisters

- Procurement July-August 2013
- Construction began September
- Site excavated, backfilled and prepared for concrete placement
- First section poured October 22
- Construction completion scheduled for November 2013
August 27, 2013

- Pad construction contractor mobilized
- Storm water pollution prevention measures in place
September 7, 2013
- Excavation begins
September 26, 2013
- Excavation completed up to 15 feet deep
- ~11,700 yds$^3$ of material excavated
September 30, 2013
- Pad backfill and compaction underway
October 3, 2013

- Pad area preparation nearly complete
- ~300 tri-axle trailer deliveries of granular and permeable fill placed
October 9, 2013
- Compaction testing and final grading complete
- Concrete mud mat for form placement installed
October 15, 2013
- Main pad concrete forms set
- 133 tons of reinforcing steel on site
October 17, 2013
- Rebar placement in progress
HLW Canister Relocation Project

October 22, 2013
- First concrete truck on site at 7:30 a.m.
October 22, 2013

- Last delivery at 6:00 p.m.
- 90 trucks; 900 cu. yds. placed
HLW Relocation Project

HLW Pad Area Cross-Section

- 3-foot-thick reinforced concrete
- ~5-foot-thick
- 8,250 tons of permeable backfill
- 2,660 tons of granular fill
- Excavated depth ranges from 4 to 15 feet

Native Soil

Artist’s conception – Not to Scale
Benefits of Additional Funding

Increased funding enables CHBWV to achieve Project goals while delivering taxpayer value