Hanford Advisory Board
Tank Waste Committee
Double-Shell Tank AY-102 Update

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Overview of region viewed from Riser 83 – August 2012
AY-102 riser locations

Riser 83
Riser 86
Riser 87
Riser 89
Riser 90
Riser 77
Riser 79
Riser 88
Riser 80
Riser 91

SECONDARY TANK (WSTA)
PRIMARY TANK (WST)
View of materials through risers

Riser 87

Riser 83

Riser 77

Annulus

Primary (Inner) Tank

~24”

~9.5’

~30”
**Where are we now?**

Complete procurement, construction, and installation of all equipment necessary for waste removal, and begin retrieving supernatant from Tank 241-AY-102 no later than March 4, 2016.

<table>
<thead>
<tr>
<th>Scope</th>
<th>Status as of 10/2015</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
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<tr>
<td>Engineering and Design</td>
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<td>Procurement</td>
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<td>Construction &amp; Installation</td>
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<td>Commissioning</td>
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Splitter box receipt and installation (July 2015)
First standard sluicer installed into Riser AY02B – July 2015
Procurement of pit piping jumpers – October 2015

Pit piping jumpers as delivered from the vendor, received, and ready for installation in the AY-02A and AP-02A central pump pits. Piping jumpers connect the pumps and slurry distributor to the AY-102 hose in hose transfer lines, and DST to DST transfer piping system.
Removal of AP-02A mixer pump – October 2015
Installation of annulus pump – October 2015

The annulus pump was delivered at the AY Farm and installed in the AY-02F pit on October 28, 2015
Supernatant pump installation

The AP-02A supernatant pump was lifted out of its shipping and storage container, and tilted to a vertical hanging position using a two crane lift.
Installation of slurry distributor

The slurry distributor was transferred to the AP-02A pit and inserted in the tank through a specific riser.
POR483 electrical rack install – November 2015
Inter-farm electrical conduit installation – November 2015
Backup Slides
AY-102 – construction sequence