Hanford Advisory Board
Agency Update

J D Dowell, Deputy Manager
AY-102 Status

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

Plan View Tank 241-AY-102
AY-102 Status

~ 7-feet

~ 21-inches

Riser 87
AY-102 Status

Refractory Installation – circa 1970
Mission: Safely manage Hanford’s 56 million gallons of liquid radioactive tank waste, while designing, constructing, commissioning and operating the Waste Treatment Plant until the mission is complete.
Integrated Path to Mission Completion
Our Team

**Office of River Protection (ORP)**
ORP is responsible for planning, integrating, and managing the River Protection Program executed by contractors performing work under ORP overall management.

**Washington River Protection Solutions (WRPS)**
WRPS is the prime contractor responsible for safely managing and operating the Tank Farms.

**Bechtel National, Inc. (BNI)**
BNI is responsible for the engineering and construction of the Waste Treatment Plant.

**Advanced Technology and Laboratories International (ATL)**
ATL is the prime contractor responsible for managing the 222-S Laboratory.
Tank Farms Update
Single-Shell Tank Waste Retrieval Status

- Single-Shell Tank retrievals are covered by both a Consent Decree and the Tri-Party Agreement (TPA)
- Consent Decree milestone B-1 requires DOE to retrieve 10 C-Farm tanks by September 30, 2014
- To date, 10 of the 16 tanks in C-Farm have been retrieved to regulatory standards
  - One S-Farm tank and six C-Farm tanks have been retrieved under the TPA
  - Four Consent Decree tanks have been retrieved

Aerial photograph of C-Farm with graphical overlay that depicts current status of each single-shell tank
C-107 Continues Retrieving
C-112 – Retrieval Efforts
In Tank Characterization

Core Sampling System
242-A Evaporator Update
Double-Shell Tank Management

8,000-gallon tanker truck to create additional tank space
Deep Sludge Experiment
AY-102 Pumping Plan

- ORP has met with Ecology to further understand specific comments and concerns related to the pumping plan
- ORP requested an extension to March 7th
- Plan identifies actions that will be required to empty the tank
Waste Treatment and Immobilization Plant Update

- Pretreatment Facility
- Analytical Laboratory
- High-Level Waste Facility
- Low-Activity Waste Facility
- Balance of Facilities (20 support buildings)

September 10, 2013
Autosampling System in the Analytical Laboratory
Steam Plant Boiler at WTP
WTP Full Scale Test Facility

The Pulse Jet Mixing Control Test Vessel is lifted into the Full-Scale Test Facility.
## ORP Profile

<table>
<thead>
<tr>
<th>PBS</th>
<th>PBS Title</th>
<th>FY 2013 Full Year CR* ($ in 000’s)</th>
<th>FY 2014 Omnibus Budget ($in 000’s)</th>
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<td>ORP-0014</td>
<td>Radioactive Liquid Tank Waste Stabilization and Disposition</td>
<td>$ 463,085</td>
<td>$ 520,216</td>
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<td>Subtotal</td>
<td>Radioactive Liquid Tank Waste Stabilization and Disposition</td>
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<td>ORP-0060</td>
<td>WTP – Subprojects A-D</td>
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<td>WTP – Subproject E</td>
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<td>Major construction – Waste Treatment Plant</td>
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<td>$ 690,000</td>
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<td>Total – ORP</td>
<td>Office of River Protection Funding Summary</td>
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<td>$1,210,216</td>
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*Continuing Resolution*
ORP Cleanup Priorities

- Base Operations
- WTP Technical Issues Resolution
- Waste Treatment Plant (WTP) Low Activity Waste (LAW)/Analytical Laboratory/Balance of Facilities (BOF) Completion
- C Farm Retrieval
- Glass as soon as possible
- Retrieval of next nine SSTs
# HAB Advice – Past Six Months

<table>
<thead>
<tr>
<th>Advice</th>
<th>Description</th>
<th>Summary</th>
<th>Status</th>
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</thead>
</table>
| #273   | Openness and Transparency Related to Tank Waste Treatment | • Values views of HAB and public  
• Share a common goal to see tank waste cleanup mission on a realistic, achievable and sustainable path | Complete |
| #272   | DOE-ORP Budget Request | • Conduct public meeting and workshop on budget formulation and funding submission  
• With funding uncertainties unable to provide priority list  
• Your input on priorities was beneficial in developing budget request | Complete |
| #271   | Leaking Tanks | • ORP is developing longer-term approach  
• The Framework document strategy to achieving our mission | Complete |
Protect the Public, the Environment and Our Workers

Safety Always Comes First!

White Bluffs overlooking the Columbia River on the Hanford Reach