Tank-Side Cesium Removal Demonstration Project Update

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Hanford Tanks Today

Single-Shell Tanks
• 149 built
• 17 retrieved

Double-Shell Tanks
• 28 built
• 1 retrieved
Treating Tank Waste
Tank-Side Cesium Removal Equipment

- Ancillary Enclosure
- Process Enclosure
- Control Enclosure
- Transformer
- Safety Shower
- Fence
- TSCR Area Main Entry Gate
Tank-Side Cesium Removal Process Enclosure
Tank-Side Cesium Removal Ancillary Enclosure
Tank-Side Cesium Removal Control Enclosure
Unloading the Process Enclosure
Placing the Ancillary Enclosure
Placing the Control Enclosure
Ion Exchange Column Storage Pad
Transporting Ion Exchange Columns

Kalmar DCG160-12T high-capacity forklift

Ion exchange column lifting yoke load test
Double-Shell Tanks Directly Supporting Tank-Side Cesium Removal
Waste Feed Delivery Lines

AP-102

W-211 Transfer Lines

AP-106

ICD-30/31

HDPE Insulation Jacket

Polyurethane Foam Insulation

6-inch Carbon Steel Encasement

3-inch Stainless Steel Pipe

Fusion Bonded Epoxy
Approving Start of Operations
Key Takeaways

Expect the following:

• Full construction authorization by March 2020

• TSCR equipment installed onsite by the end of fiscal year 2020

• TSCR operational to pretreat tank waste liquids by the end of fiscal year 2021
Thank you for your interest!

Questions?