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Liquid Waste Update: Targeting High-Risk Tanks

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Purpose of the Presentation

- Update on waste removal and closure activity progress for highrisk tanks
- Acceleration with success





What is a High-Risk Tank?

Age

- Type I Tanks were constructed from 1951-53
- Type II Tanks were constructed from 1955-56

Located within the Water Table

- Tanks 9-12- Type I- Fully submerged
- Tanks 13-16 Type II- Partially submerged

Known primary tank leak sites- No Environmental Leaks

- **1**,4, 9, 10, 11, 13, 14, 15
- Annual publicly available document called, "Annual Radioactive Waste Tank Inspection".



Type I Tanks

- Constructed from 1951-53
- Eight Tanks in FTF (Tanks 1-8)
- Four tanks in HTF (Tanks 9-12)





Type II Tanks

Constructed from • 1955-56

• All four tanks in HTF (Tanks 13-16)





Type I Tanks in the Water Table







Type II Tanks in the Water Table







Example of a Primary Tank Wall Leak

Example of Prior Leakage from Primary Tank into Secondary Pan





Current Status/Accomplishments

- CY24- Preliminary Cease Waste Removal Complete
- CY25- Preliminary Cease Waste Removal On Schedule 36 H-Tank Farm 35 F-Tank Farm **Under Modification** Waste Retrieval Design in 1 1 2 progress Closed 26 H08-8 0.0.0.0 27 33 (34 28 47 2F



Delivering Risk Reduction

FFA Milestone Summary

Waste Removal & Tank Closure Task Order Plan





Efficiencies Allowing Acceleration

- Workplace Efficiency reviews
 - Process Improvement Team Review
- Preliminary Cease Waste Removal without Tank Modifications
- Drone use inside of the Tanks
- Augmentation of Lab Sample Analysis
- Re-sequencing the Tank Isolation Activities
- Tank sampling schedule adjustments
- Closure paperwork efficiency review
 - Rapid Improvement Event
 - SRMC, DOE-SR, SCDES, and EPA





Mapping the Inside of Tanks

In situ Mapping

Drone Mapping







Acceleration Examples

Project	FY25 FY2	6 FY27	FY28	FY29	FY30
Tank 9 (Current)	Flush / Sample Prep Sampling	Ilation Design Tank 9 Isolation Field Work Grout mple Analysis Tank 9 Grout Design Preps	Tank 9 Grouting		
Tank 9 (Accelerated)	Tank 9 Cooling Coil Flush / Sample Prep / D&R Tank 9 Sampling / Mode Change LAB Tank 9 Grout Preps Tank 9 Cooling Tank 9 Grout Preps Tank 9 Grout Design	Tank 9 Grouting			
Tank 10 (Current)	Tank 10 Sample Prep Tank 10 Tank 10 Isolation Design Tank 10 Sampling Tank 10 Sample Analysis	Work Pronc	Tank 10 Grouting		
Tank 10 (Accelerated)	Tank 10 Sample Prep Tank 10 Mode Change LAB Tank 10 Grout Preps Tank Grout Tank 10 Design Tank 10 Grout Tank	10 Ing			
Tank 11 (Current)	Tank 11 HR Tank 11 Sample Execution Prep / D&R / (Includes Cooling Coil Flush		Grout Tank 11		
Tank 11 (Accelerated)	Tank 11 HR Execution (Includes LTAD) Tank 11 Sample Prep / D&R / Cooling Coil Flush	LAB Tank 11 Grout Preps Tank 11 Grout Tank 11 Grout Design Tank 11 Grout Design Design	Tanks 9-10-11 Physical Isolation Field Work		
Tank 14 (Current)	Tank 14 Waste Tank 14 HR Tank 14 HR Removal Execution Prep / Installation Cooling C	D&R ⁷ / Tank 14 Sampling	- WORK	Tank 14 Grout	Fank 14 Frouting
Tank 14 (Accelerated)	Tank 14 Waste Removal Installation Tank 14 HR Execution Tank 14 S Prep / D Cooling Flus	&R / Sampling / Preps Coil Mode Tank 14 Grout	Tank 14 Grouting		
Tank 15 (Current)	Tank 15 Tank 15 Sample Prep / D&R / LTAD Cooling Coil Flush	k 15 Sampling Tank 15 Sample Analysis	Tank 15 Tank 15 Isol Isolation Field Wo Design Tank 15 Grout	rk Tank 15 Grout	Tank 15 Srouting
Tank 15 (Accelerated)	Tank 15 Tank 15 Sample Prep / D&R / LTAD Cooling Coil Flush	Tank 15 Grout Grouting			



Questions?



