



U.S. DEPARTMENT
of **ENERGY**

Monosodium Titanite (MST) / Sludge Solids (SS) to Tank Farm

Brittany Califf

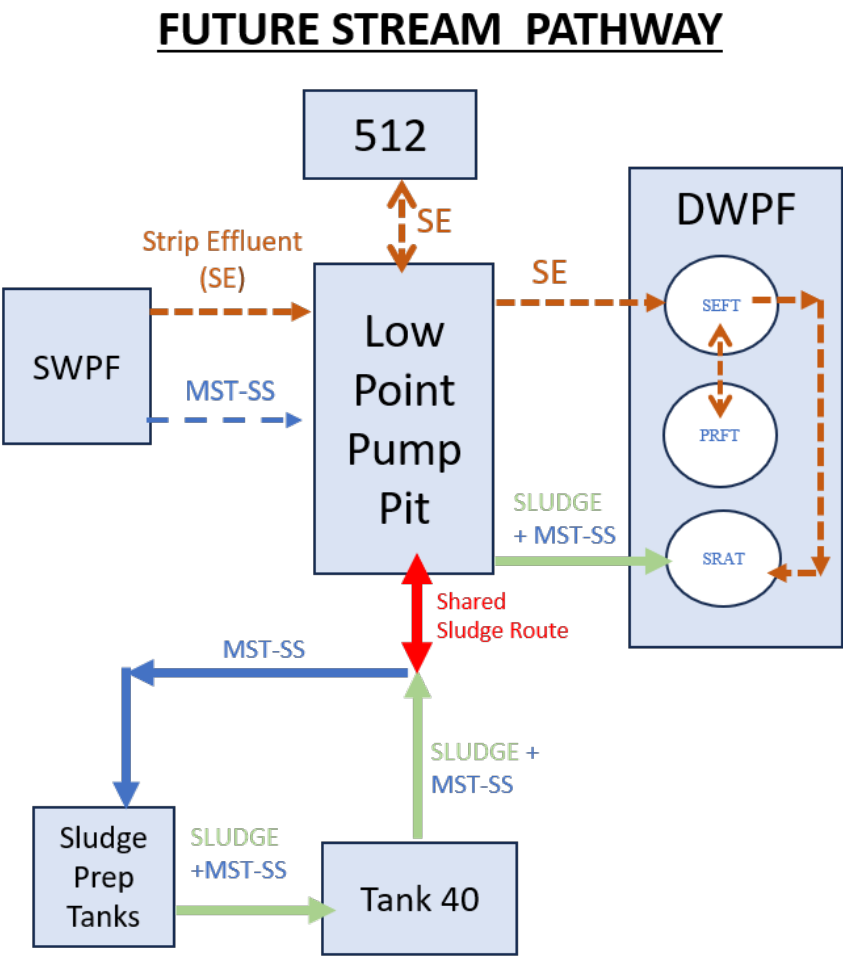
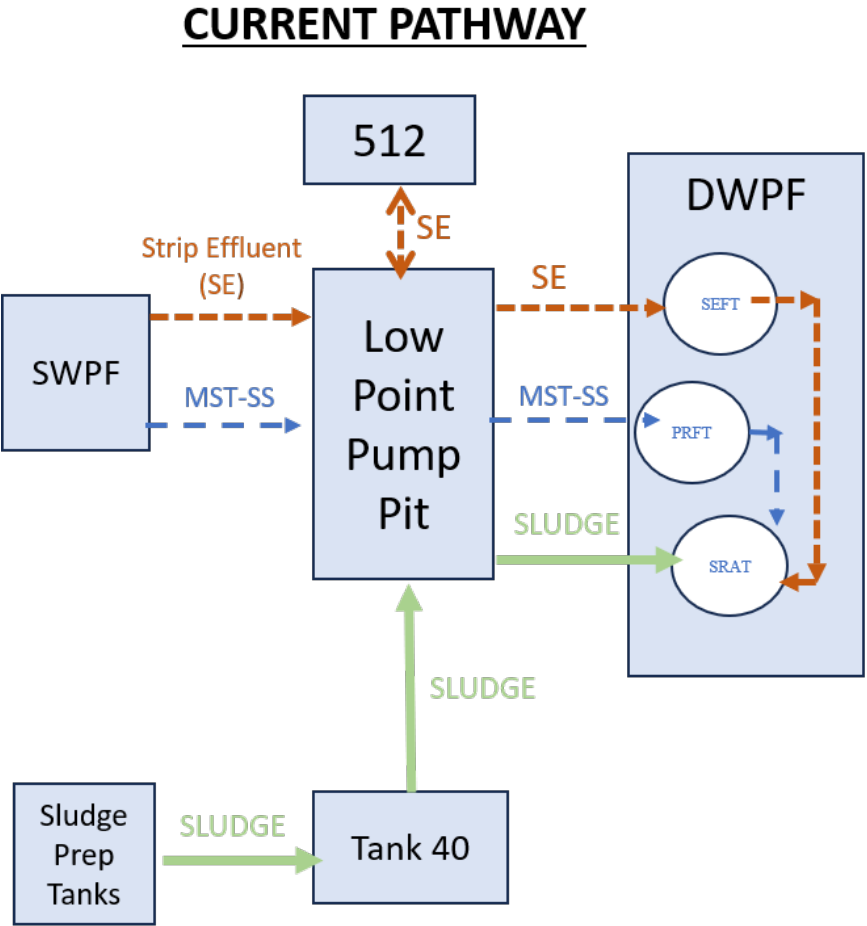
Program Manager - Waste Disposition

September 22, 2026

Background and Benefits

- **The Salt Waste Processing Facility (SWPF) separates radionuclides from high-level waste salt solution and separates into two streams: Monosodium Titanate/Sludge Solids (MST/SS) and Strip Effluent (SE) to be sent directly to Defense Waste Processing Facility (DWPF) for vitrification.**
- **An opportunity has been identified to divert MST/SS stream from DWPF to a sludge batch prep tank at the Tank farms, and this approach offers several key benefits, including:**
 - **Cost-Effective Solution:** ~\$12M capital investment
 - **Operational Flexibility:** Reduces SWPF impacts from DWPF outages
 - **Process Simplification:** Reduces washing and simplifies DWPF batch preparation
 - **Cycle Time Savings:** Reduces batch compilation by ~24 hours
 - **Storage Flexibility:** Provides additional SE lag storage

Current and Proposed Transfer Pathways for SWPF Streams



Schedule Summary

