



**Savannah River
Remediation**

We do the right thing.

Saltstone Overview



**Presented to Citizens Advisory Board Waste Management
Committee
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Savannah River Remediation**

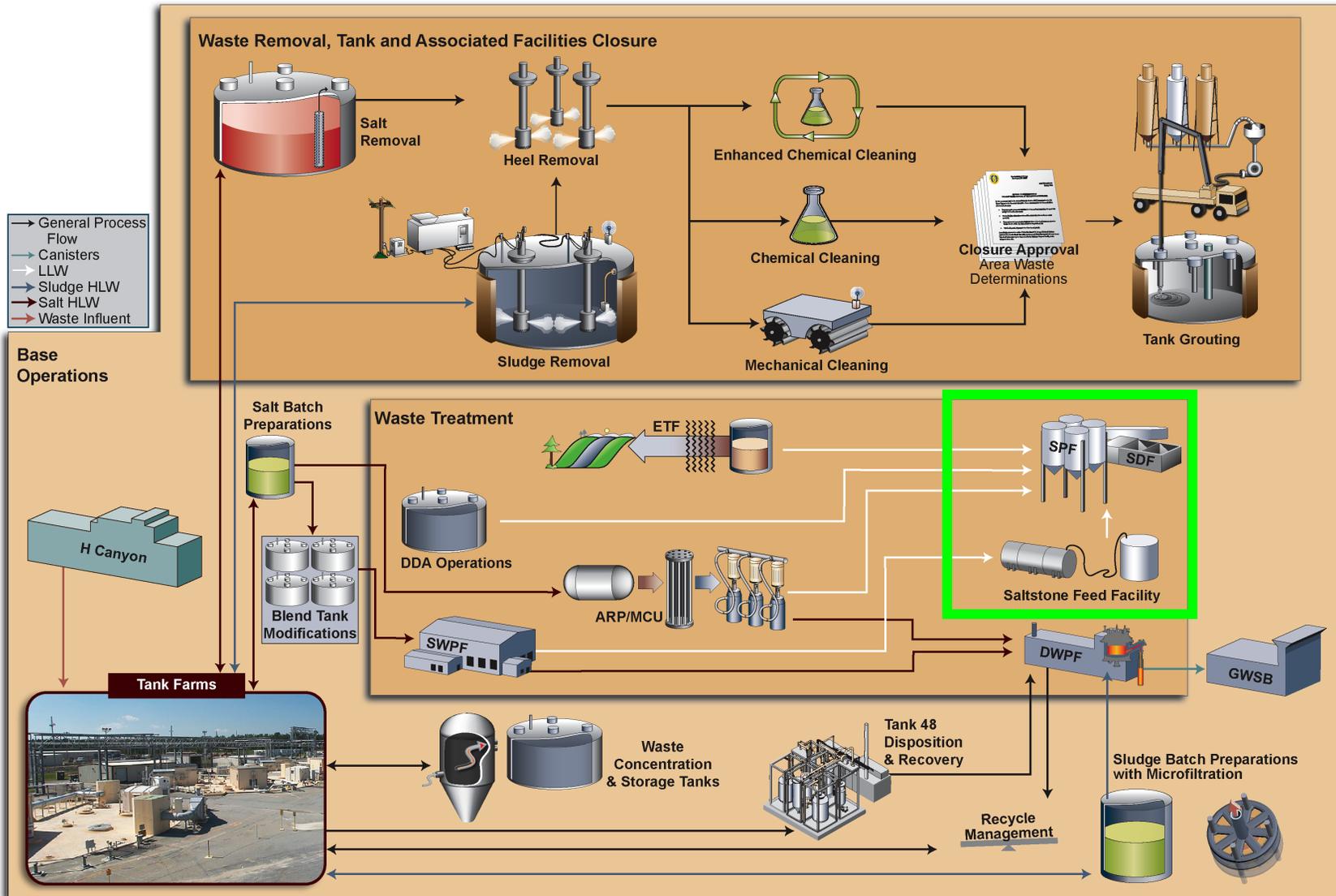
SRR-WTF-2010-00001

- Position in the Liquid Waste Flowsheet
- Facility History
- Current Process Overview
- Recent Operations
- Future Mission Requirements
- Summary

ARP	Actinide Removal Process
DDA	Deliquification, Dissolution and Adjustment
DSS	Decontaminated Salt Solution
ETF	Effluent Treatment Facility
HTF	H Tank Farm
MCU	Modular Caustic Side Solvent Extraction Unit
SCIX	Small Column Ion Exchange
SWPF	Salt Waste Processing Facility

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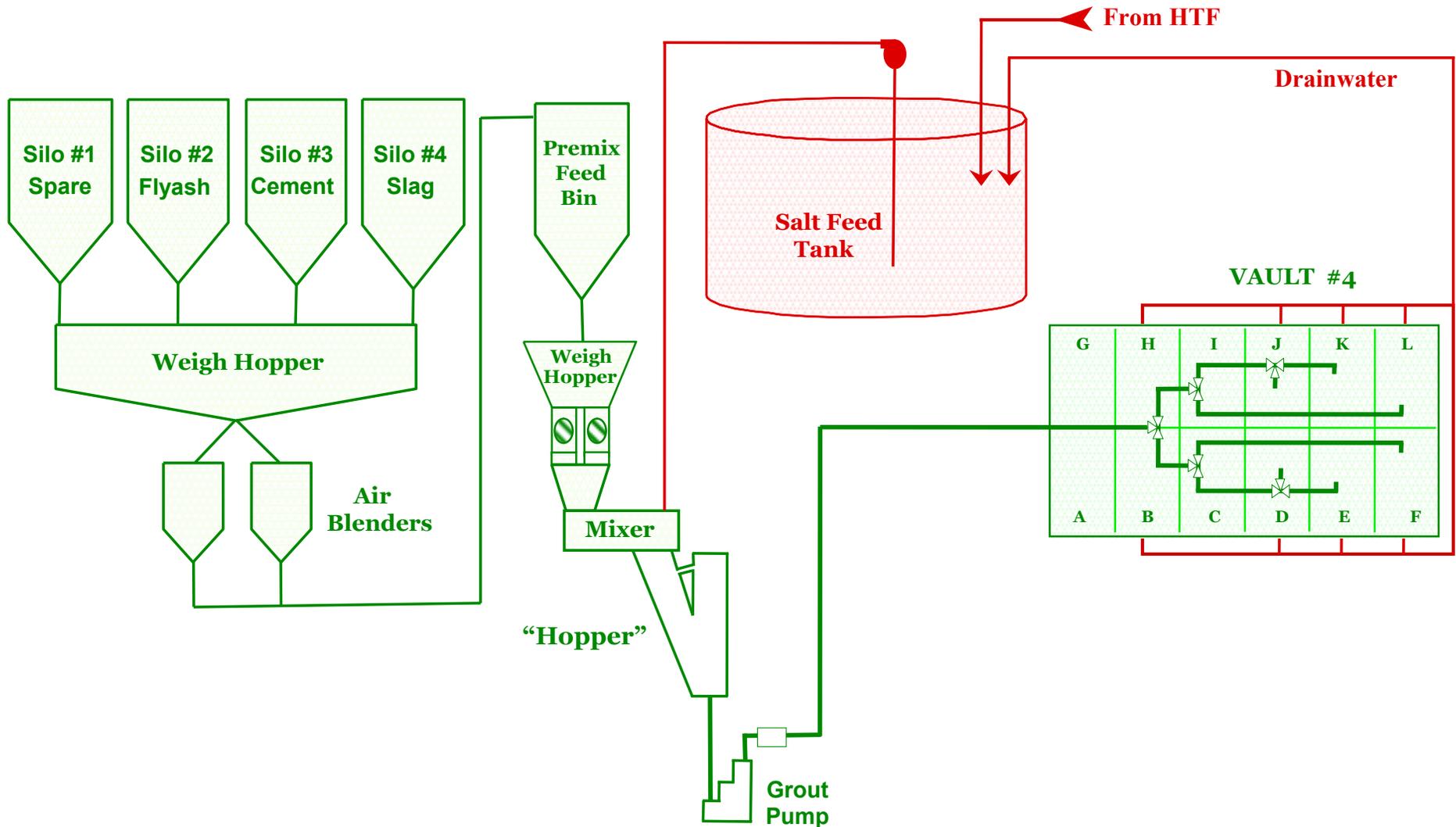
Key Events

- Radioactive startup authorized in 1990.
- Modified in 2006 to support DDA and ARP/MCU campaigns.
 - Design Basis of 0.2 curie/gallon salt feed material

Production Summary

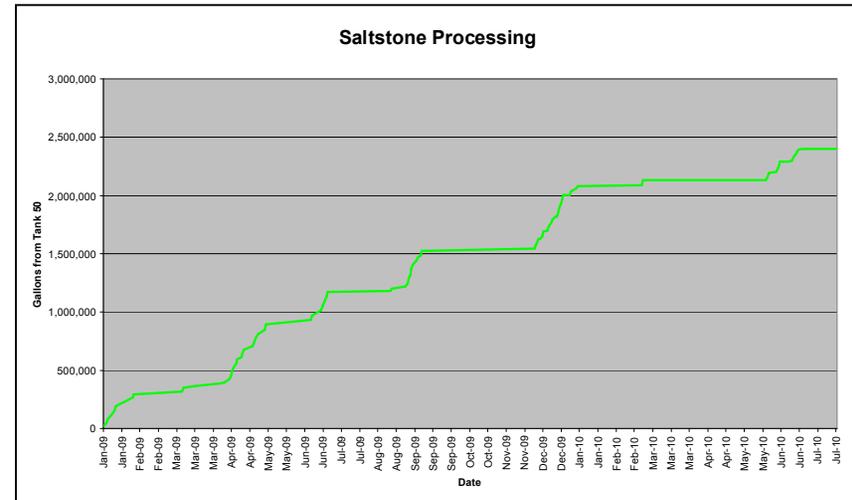
- 1990 to June 2009 ~8 M gallons
- July 2009 to present >1.2 M gallons

Current Process Overview

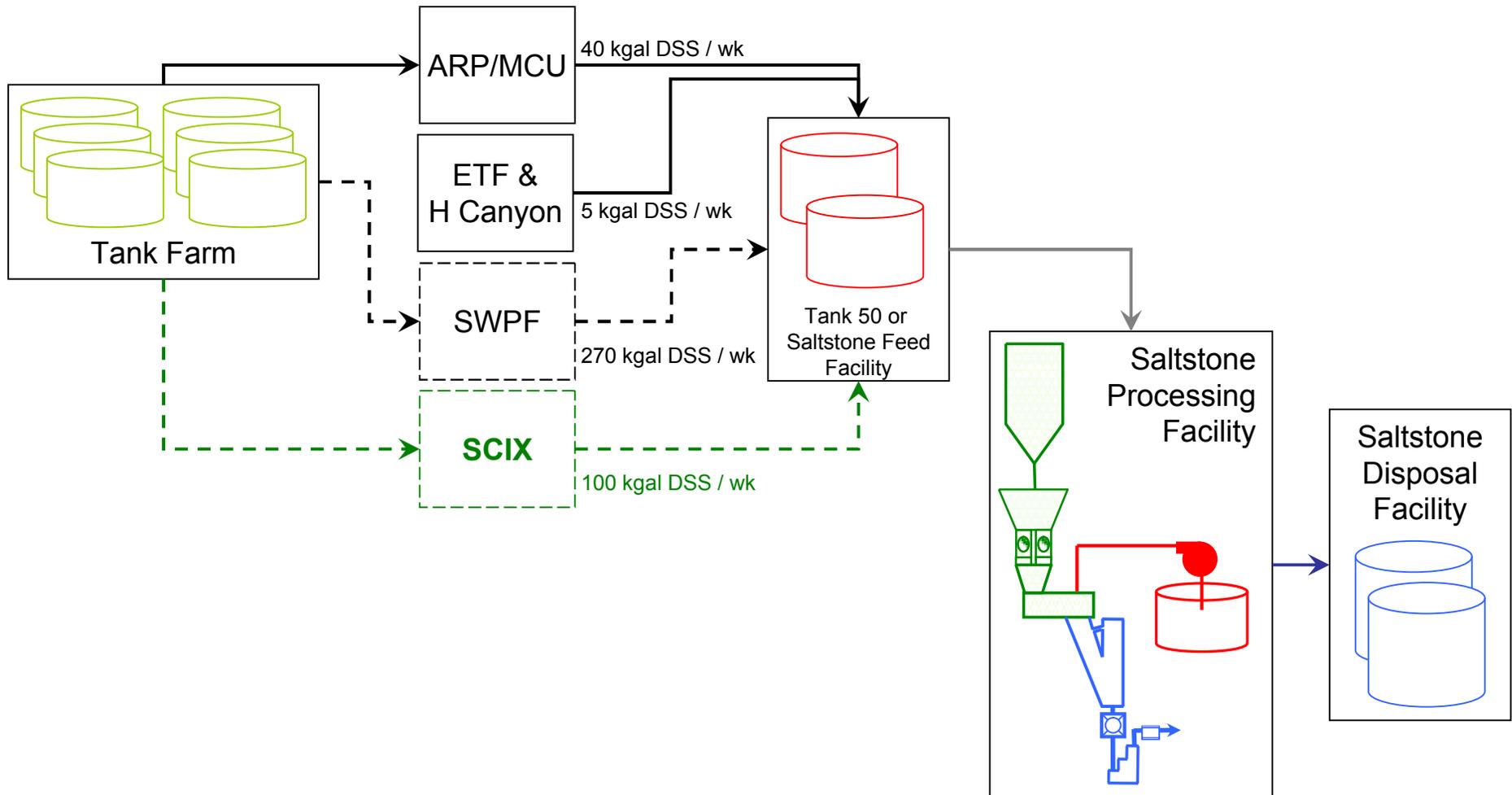


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- Saltstone production has supported all mission requirements.
- Saltstone capacity greatly exceeds current requirements.
- Saltstone has experienced several extended outages (planned and unplanned) in the past year.
- Operational Improvement Plan has been developed to position the facility to support higher future throughput from SWPF and Supplemental Salt Processes.



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- Performed comprehensive analysis of People, Plant, and Process Requirements to increase Availability, Reliability, and Attainment.
- Short Term
 - Redesign Grout Hopper
 - Implement 24 x 7 Operations
- Mid Term
 - Address Equipment Obsolescence
 - Improve Spare Equipment Availability
- Long Term
 - Enhance Process
 - Redundant Trains / Alternate Process Flowsheet
 - Safety Basis Control Optimization

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- Saltstone operations fulfills all mission requirements:
 - Workforce Safety
 - Process Safety
 - Environmental Stewardship
 - Life Cycle Objectives

