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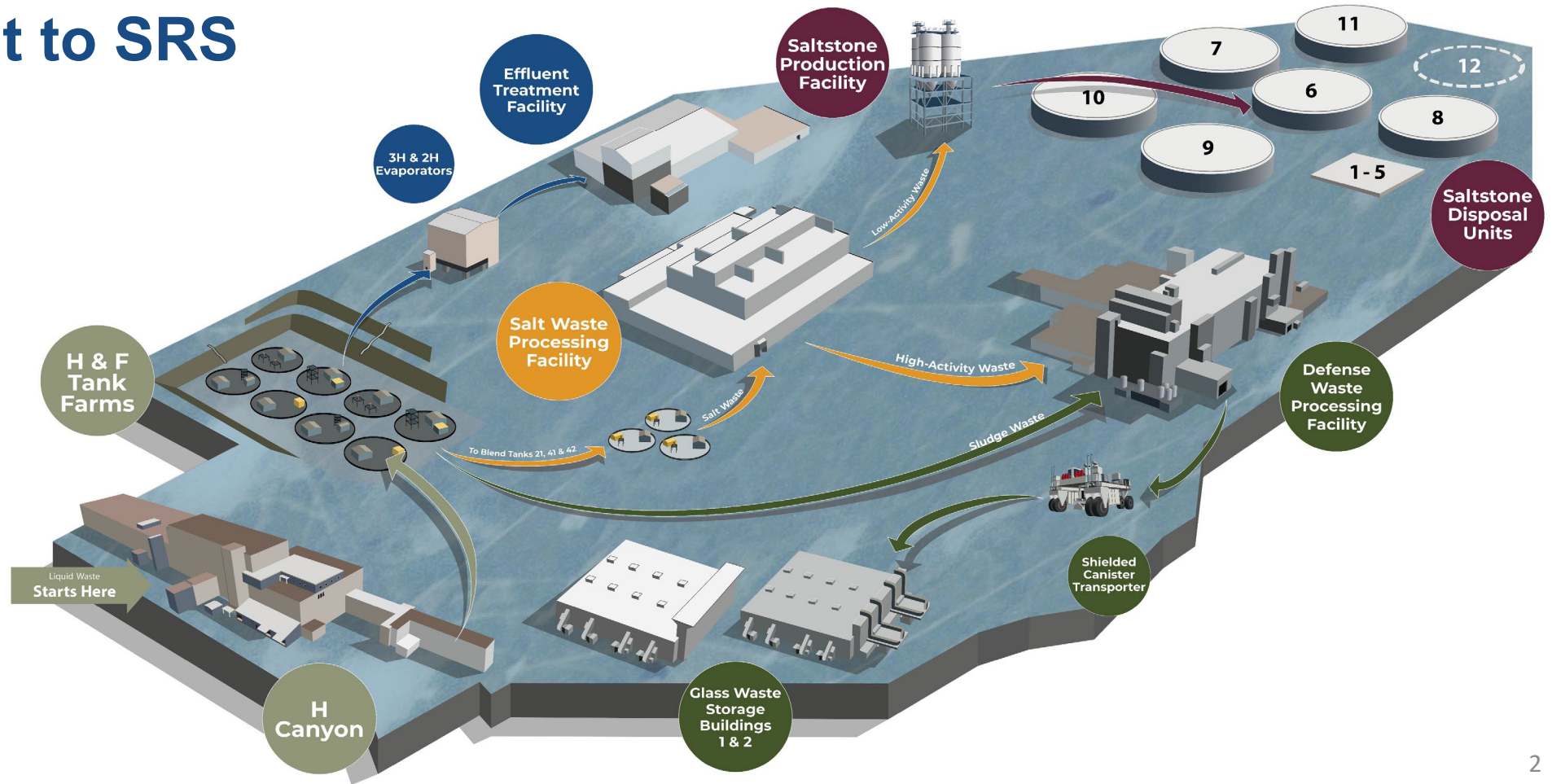
Governor's Nuclear Advisory Council

Dr. Thomas D. Burns, Jr.
President & Program Manager

September 24, 2026

Summary

- Liquid Waste System Plan Revision 24 & 24.1
- Liquid Waste Improvements, Next Steps, & Program Status
- Hanford Visit to SRS



Liquid Waste System Plan Revision 24 Overview

- Released in January 2026; mission status through end of 2025
- Builds on risk reduction success of System Plan Rev 23 (March 2023) & technical upgrades
 - *High curie removal strategy (over 46M curies removed, with 33% of remaining curies to be dispositioned in the next 3 years)*
 - *Larger cross flow filters in SWPF, higher salt batch concentration(103M gallons to 77M gallons), drone sampling, additive manufacturing, commercial characterization*
- Funding has greater impact than technical capacity; limited tank prep funds throttle DWPF/SWPF and reduce equipment reliability

System Plan Revision 24: Two Modeled Cases

- **Two Modeled Cases:**

- *Baseline/High Confidence: baseline with opportunities to accelerate (2041)*
- *Early Finish/Goal: recognizes acceleration opportunities (2037 or better)*

If funding is less than assumed in the Goal case (\$1.123B in FY26 and escalated in subsequent years), mission completion by 2037 is unlikely

Federal Facility Agreement milestones are met in both cases.

- **SWPF design basis maximum rates not required**

- *9M gallons/year salt processing no longer required – due to 25% reduction in salt volume*
- *Next Generation Solvent (NGS) not required to achieve 2037 completion*

- **Goal of completing the Liquid Waste Mission in 2037 remains the same**

- *SRMC contract is incentivized by DOE to deliver 2037 completion*

Liquid Waste System Plan Revision 24.1 (April 2026)

- **Liquid Waste System Plan Revision 24** noted two opportunities:
 - *Discontinuation of Accelerated Basin Deinventory*
 - *Decoupling SWPF High Activity Waste Stream from DWPF*
- **Both of these activities have now been realized and are noted in Rev 24.1 with updated modeled cases, and an estimated lifecycle canister reduction of 300 (~150 for each of the realized opportunities)**

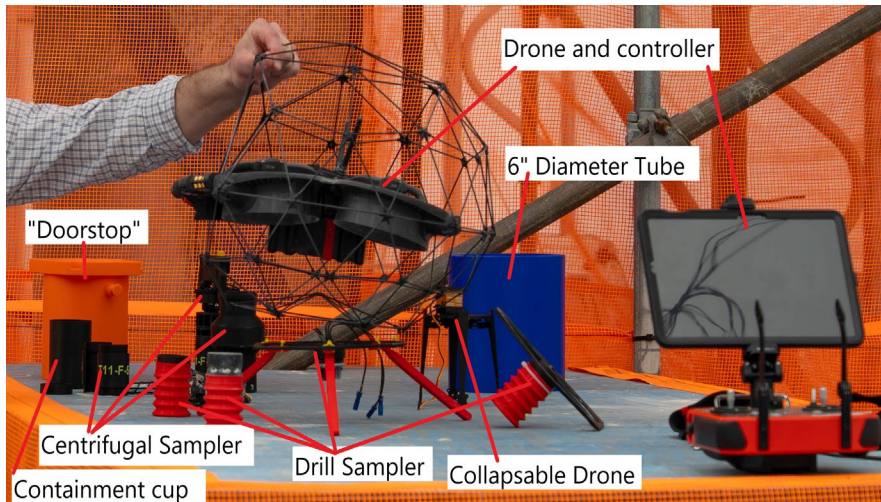
Table 1 1 — *Results of Modeled Cases* of Rev 24 is updated to:

Parameter	Goal	Baseline
Date last LW facility turned over to Dismantlement and Decommissioning (D&D)	2037	2041
Final Type I and II tanks complete operational closure	2031	2032
Complete SWPF salt processing	2034	2035
Complete DWPF operations	2036	2039
Last tank closed	2037	2041
Salt Solution Processed via SWPF	77 Mgal	85 Mgal
Total number of canisters produced	7,376	7,440
Total number of SDUs	12	12

Liquid Waste Facility Improvements & Status

Tank Farms

- 9 tanks have achieved PCWR
- 17 million curies removed in FY26
- Additive manufacturing for drone attachments to accelerate waste sampling



Salt Waste Processing Facility (SWPF)

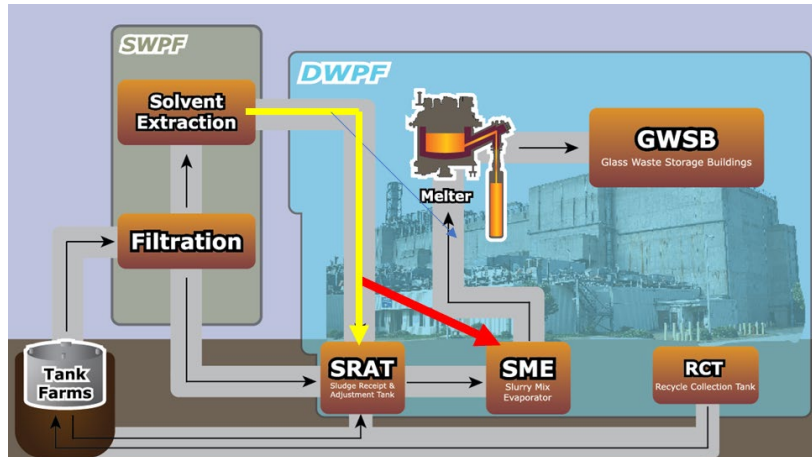
- 106% processing capability of SWPF's original design by adjusting contactor weir size by 1/10 of an inch
- Bypassing the strip effluent coalescer (SEC), a vessel used for solvent recovery, has led to more continuous run time, higher productivity, and less maintenance without safety or downstream disruptions



Liquid Waste Facility Improvements & Status

Defense Waste Processing Facility (DWPF)

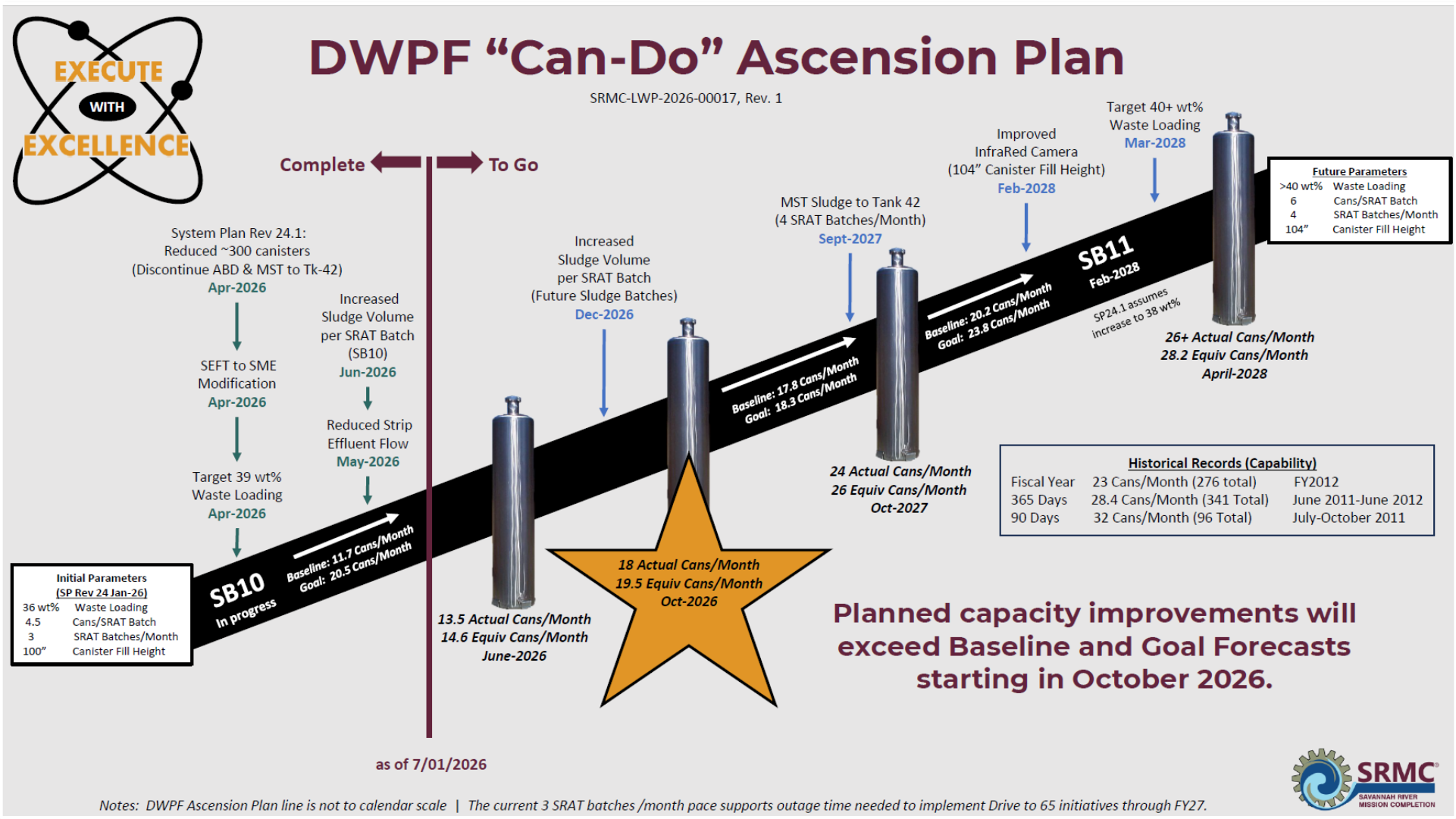
- Increasing sludge volume per DWPF batch, 4.5 to 6 canisters per batch
- Alternate transfer path implemented for Strip Effluent from SWPF to Slurry Mix Evaporator



Saltstone Production Facility/SDUs

- Implementing 24 hour runs to keep pace with SWPF throughput
- Strengthening infrastructure, like the facility's grout pump, for longer operating runs
- SDU 6 completely filled with grout
- SDU 10 achieved CD-4 in June
- SDU 11 construction complete
- SDU 12 construction 50% complete (last SDU for the LW mission)

Next Steps: Increasing Canister Production



Next Steps: Driving System Availability



Liquid Waste Facility by the Numbers

Tank Farm waste inventory is below 31 million gallons for first time since 1984

Recent 30-day Records

SWPF: 727,211 gallons

DWPF: 16 canisters

Saltstone 1,095,754 gallons

Liquid Waste system availability is currently 73%.

Federal Facility Agreement Milestones

Calendar Year	Preliminary Cease Waste Removal (# of Tanks)	Operational Closure (# of Tanks)
2023	0	0
2024	1 ✓	0
2025	3 ✓	0
2026	2 ✓	0
2027	2 ✓	0
2028	0	3 2027
2029	2 2026	0
2030	1	2
2031	0	3
2032	0	1
2033	0	2
2034	1	0
2035	1	0
2036	1	1
2037	2	4
Total	16	16

Hanford Visit

- Hosted Hanford DOE and contractor personnel for a 2-day benchmarking visit in June
- Discussed how SRMC created an optimal technical strategy around risk reduction, aligned with DOE & regulatory partners to achieve the goal, and how the contract structure incentivizes the contractor to accelerate the mission

