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Governor's Nuclear Advisory Council

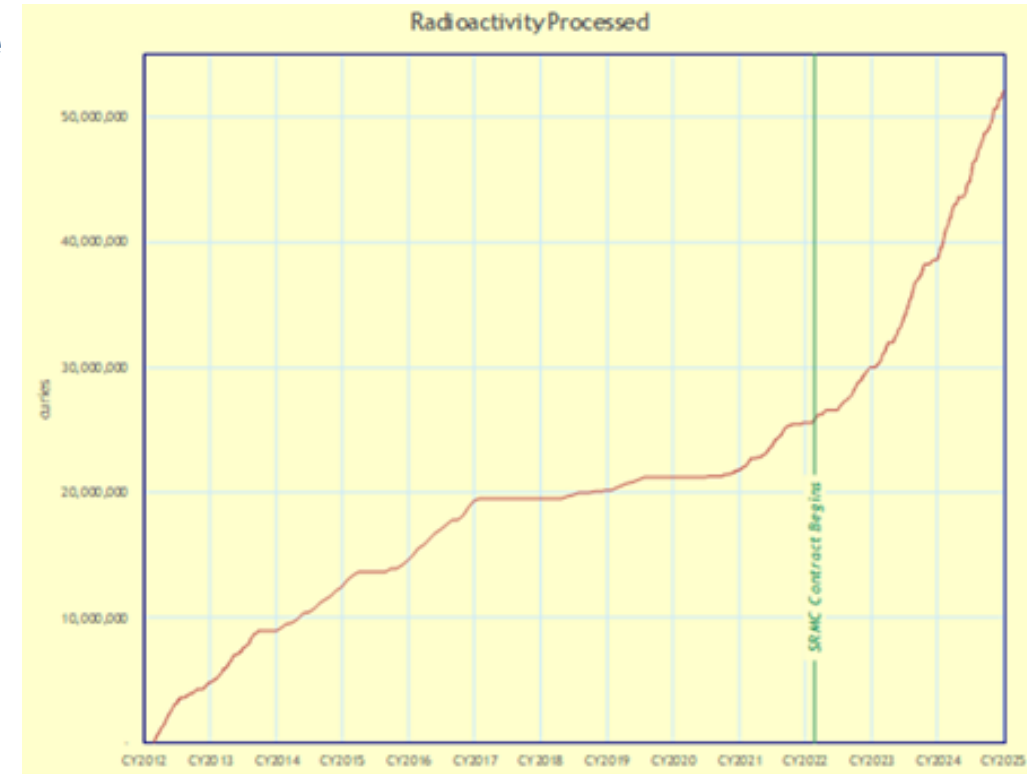
Dr. Dave Olson

President & Program Manager

March 31, 2025

Accomplishments

- Surpassed 20 million safe hours
- Completed cleaning and declared Preliminary Cease Waste Removal (PCWR) on 3 tanks: 1 tank 7-months and 2 tanks 12-months ahead of the Federal Facility Agreement (FFA) schedule
- Established new processing records at the Salt Waste Processing Facility (SWPF) and Saltstone Production Facility (SPF)
- Dispositioned 26.3 M curies (Ci) of waste, > 3 times the historical rate
- Approved Critical Decision (CD)-4A for Saltstone Disposal Unit (SDU) 9 \$60M under budget and 7 months ahead of schedule
- Completed Glass Waste Storage Building (GWSB) storage modifications to double stack 935 canisters
- Developed SWPF filter upgrade design, addressing the SWPF filtration limitations
- Consolidated SPF and Effluent Treatment Facility (ETF) control rooms
- Upgraded all simulator platforms including a new ETF and Defense Waste Processing Facility (DWPF) crane simulator



Preliminary Cease Waste Removal (PCWR)

GOALS (in priority order)

1. Reduce risk to the environment by removing waste and closing tanks with a goal of completion of the liquid waste program by 2037.
2. Reduce operational and environmental risk by aggressively removing curies from the waste tanks.
3. Reduce operational and environmental risk by optimizing operations to minimize liquid waste program total life cycle.
4. Complete waste removal and subsequent grouting of all waste tanks and ancillary structures with a risk-based priority order: first to tanks in the water table, followed by F Tank Farm tanks, followed by remainder of waste tanks, followed by ancillary structures, recognizing the potential for future emergent conditions or opportunities.

Milestone Date	Preliminary Cease Waste Removal (# of Tanks)	Actual Preliminary Cease Waste Removal Completed	Operational Closure (# of Tanks)
12/31/2023	0	0	0
12/31/2024	1	3	0
12/31/2025	3	0	0
12/31/2026	2	0	0
12/31/2027	2	0	0
12/31/2028	0	0	3
12/31/2029	2	0	0
12/31/2030	1	0	2
12/31/2031	0	0	3
12/31/2032	0	0	1
12/31/2033	0	0	2
12/31/2034	1	0	0
12/31/2035	1	0	0
12/31/2036	1	0	1
12/31/2037	2	0	4
Total	16	3	16

Reduce Risk - Optimizing Operations (Goal #3)

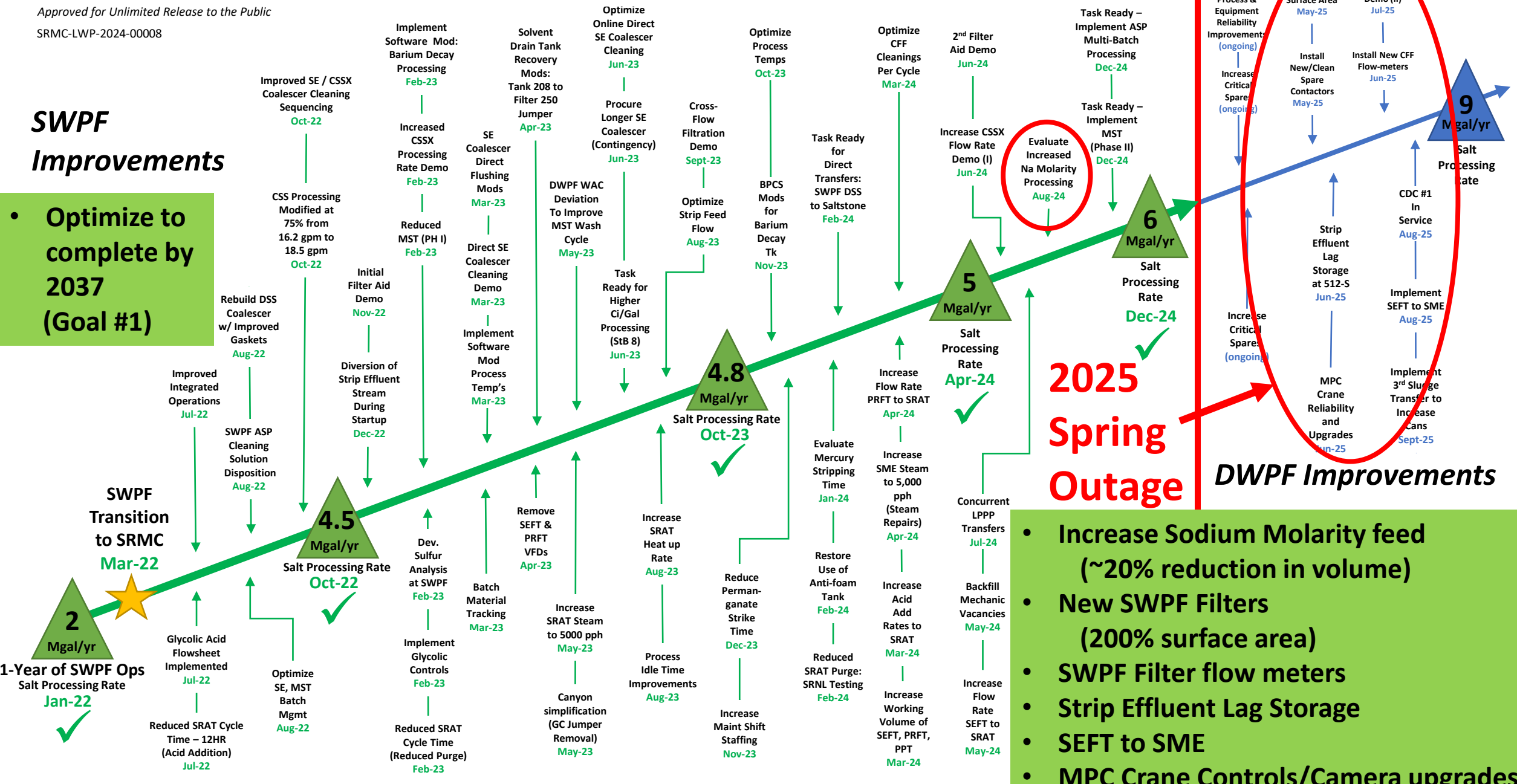
Approved for Unlimited Release to the Public

SRMC-LWP-2024-00008

SWPF Improvements

- Optimize to complete by 2037 (Goal #1)

Complete ← → To Go

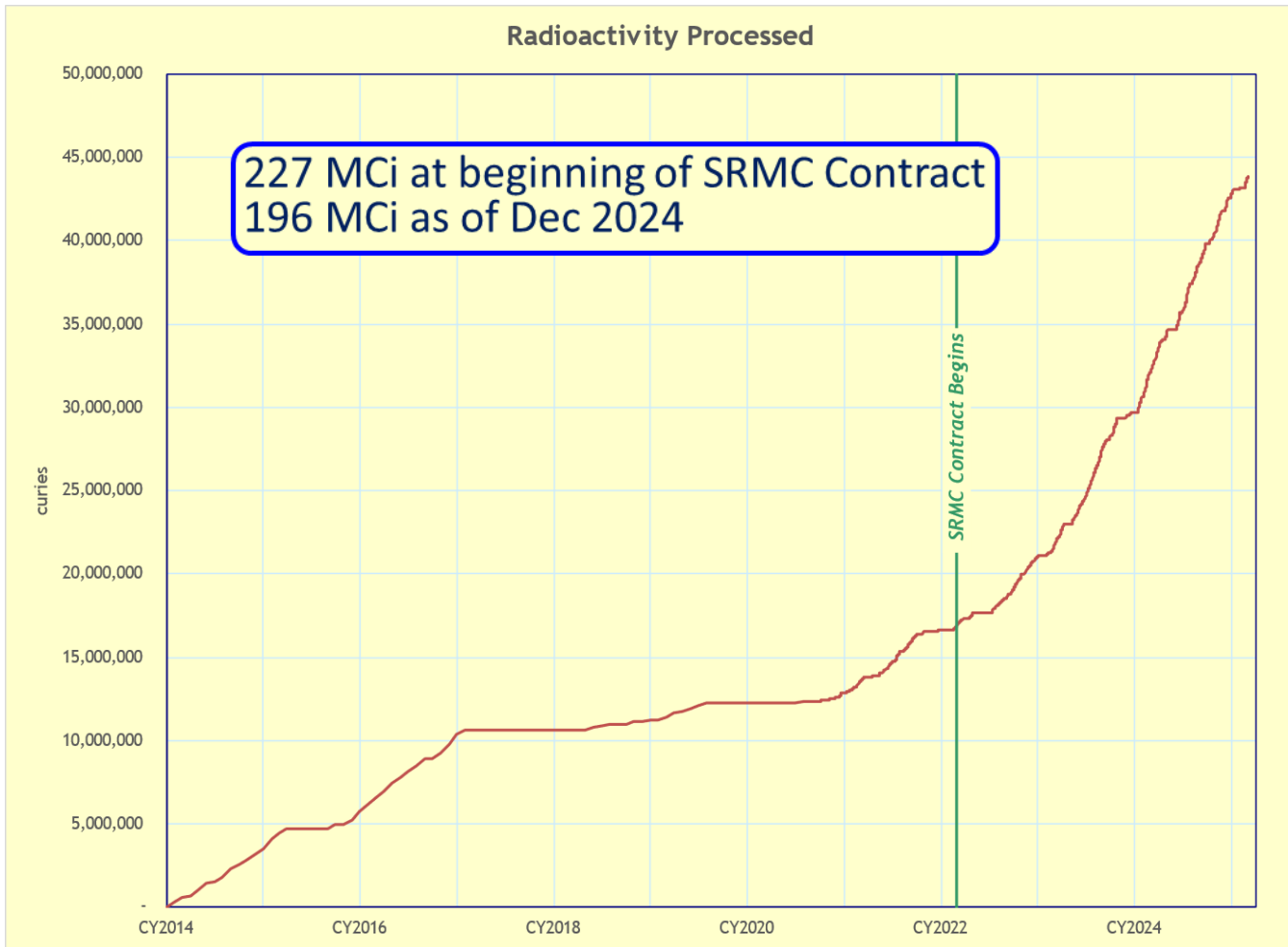


2025 Spring Outage

DWPF Improvements

- Increase Sodium Molarity feed (~20% reduction in volume)
- New SWPF Filters (200% surface area)
- SWPF Filter flow meters
- Strip Effluent Lag Storage
- SEFT to SME
- MPC Crane Controls/Camera upgrades

Reduce Risk - Aggressively Remove Curies (Goal #2)



SRMC has processed almost the same amount of curies (Ci) in the first 3 years of the contract as was done in the previous 10 years.

2/27/2012 – 2/26/2022 (~10 years) = **26.2MCi**

2/27/2022 – 2/4/2025 (~3 years) = **26.3MCi**

13.7% reduction of curies in the system in 3 years

68% of high curie batch makeup complete

2025 Optimizations (Goal #3)

SRS Liquid Waste Facilities

All Facilities

- Control Systems Upgrade
- Electronic Rounds Upgrade

H & F Tank Farms

- Utilities Upgrade
- SWPF Feed Tank Ventilation Upgrade
- Main Diversion Box VFD

Liquid Waste Starts Here

H Canyon

Salt Waste Processing Facility

- Extended Filter Installation
- Contactors Refresh
- Vibration Monitoring Upgrade
- Electrical Bus Changeout

Effluent Treatment Facility

3H & 2H Evaporators

Saltstone Production Facility

Saltstone Disposal Units

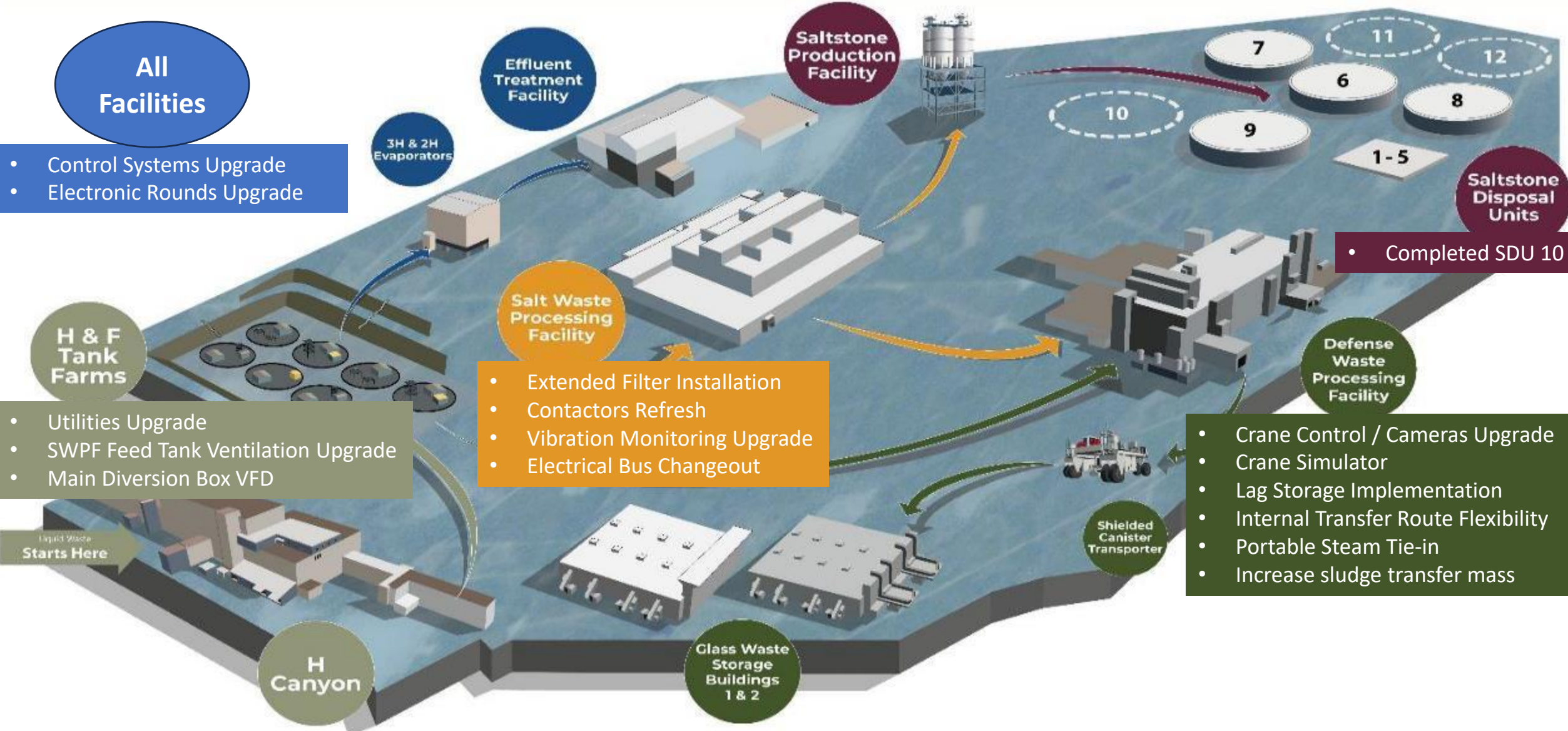
- Completed SDU 10

Defense Waste Processing Facility

- Crane Control / Cameras Upgrade
- Crane Simulator
- Lag Storage Implementation
- Internal Transfer Route Flexibility
- Portable Steam Tie-in
- Increase sludge transfer mass

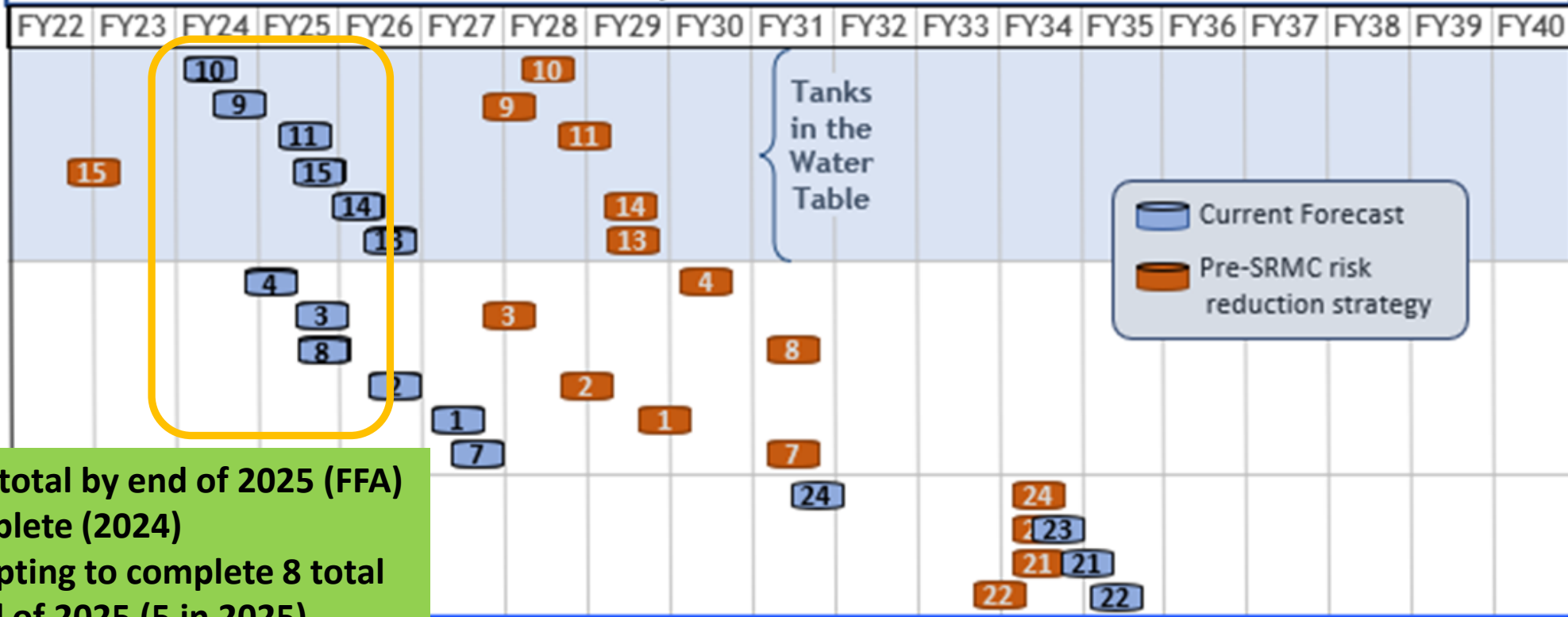
Shielded Canister Transporter

Glass Waste Storage Buildings 1 & 2



Waste Removal Risk Based Priority Order (Goal #4)

Ahead of FFA Commitments with Focus on Tanks in the Water Table Preliminary Cease Waste Removal

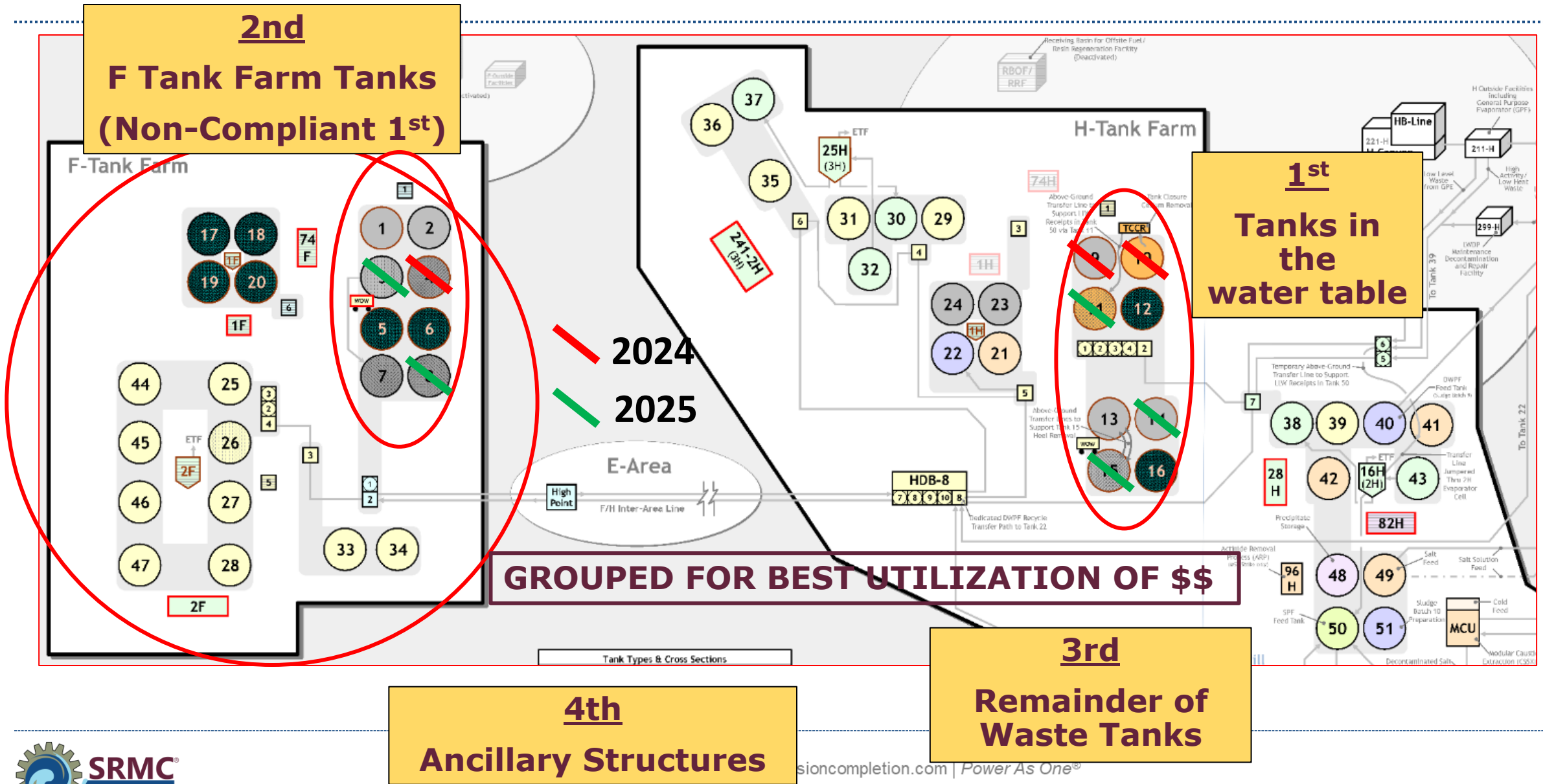


4 PCWRs total by end of 2025 (FFA)

- 3 complete (2024)
- Attempting to complete 8 total by end of 2025 (5 in 2025)



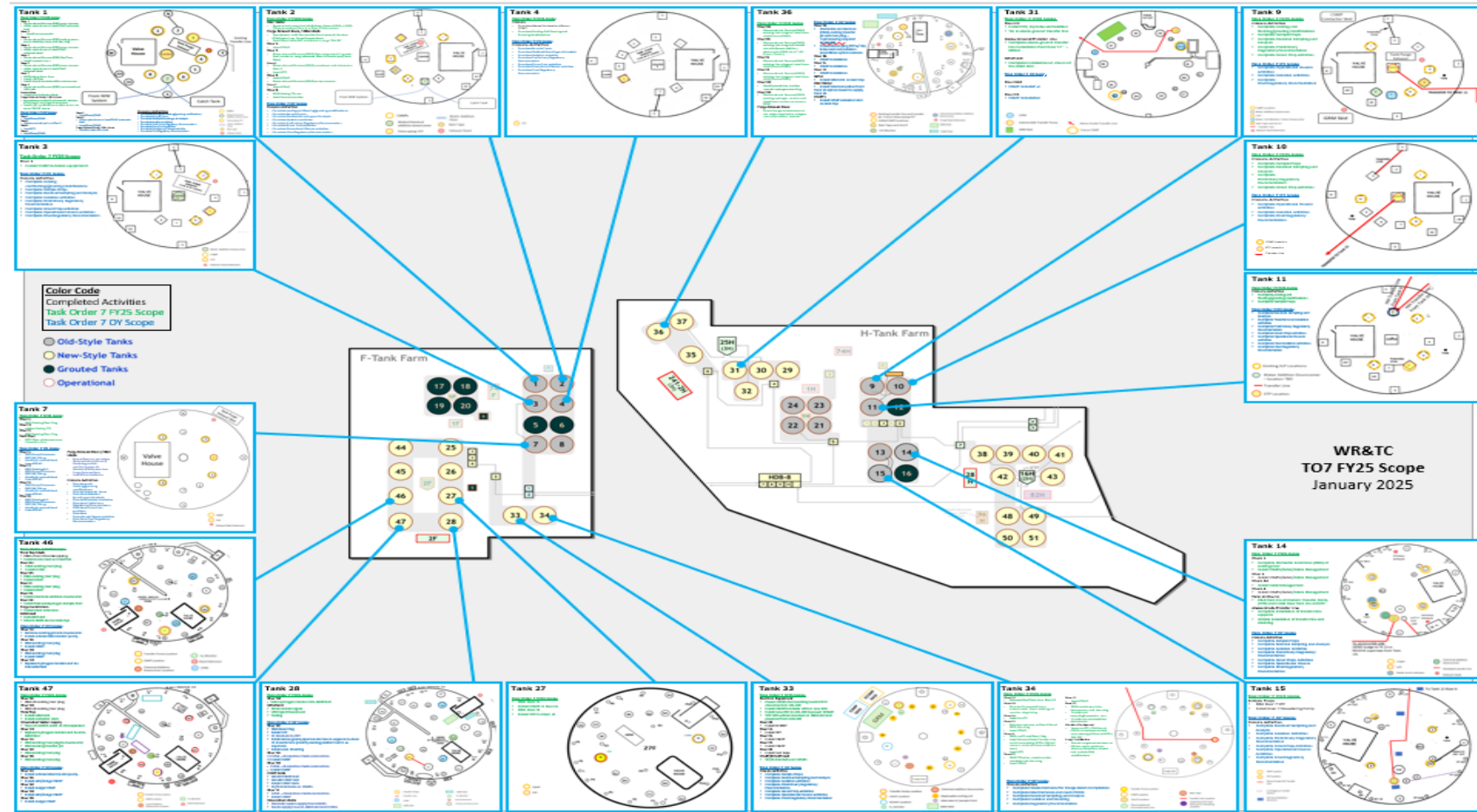
Waste Removal Risk Based Priority Order (Goal #4)



2025 Waste Retrieval & Tank Closure Update

Tank Activities

- **3 Tanks cleaned and preparing for closure**
 - Tanks 9, 10 and 4
- **6 Tanks actively in retrieval**
 - Tanks 11, 15, 8, 3, 13, 44
- **11 Tanks undergoing field modifications**
 - Tanks 39, 34, 14, 1, 2, 28, 31, 33, 36, 46, 47
- **4 Tanks in design phase**
 - Tanks 7, 27, 25, 45
- **17 Tanks supporting processing**
 - Evaporator Tanks 29, 30, 32, 37, 38, 43
 - Sludge Processing Tanks 26, 35, 40, 51
 - Salt Processing Tanks 21, 23, 24, 41, 42, 49, 50



Our Employees

- **Largest Class of Apprentices**

- *SRMC welcomed 60 new participants to its Production Operator Apprenticeship Program with Aiken Technical College.*

- **Largest Class of Summer Interns**

- *58 interns from 26 colleges and universities comprised SRMC's largest class of interns in program history.*

- **First Line Managers Forum**

- *Approximately 170 first line managers participated in a leadership workshop that has now resulted in a forum to improve communication and best practices.*



Our Outreach

SRMC strives to be connected to the communities surrounding SRS through a commitment regional education outreach, regional purchasing programs, community support, and workforce and economic development.

Partnering with
8 of 8
SC Historically Black
Colleges and
Universities



\$68,000
in scholarships given
to children of SRMC
employees



SRMC employees
donated more than
\$300,000 to the
United Way.



~1500
students impacted
by STEM donations



\$180M
spent with small
businesses in FY24

