SWPF Project Status Update

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CITIZENS ADVISORY BOARD
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Positive project update in response to CAB Recommendation No. 297
Acronyms

AFF  Alpha Finishing Facility
ASME American Society of Mechanical Engineers
CCA Cold Chemical Area
DSS Decontaminated Salt Solution
EFSA Eastern Facility Support Area
NFSA Northern Facility Support Area
SWPF Solid Waste Processing Facility
IGCE Independent Government Cost Estimate
ICE Independent Cost Estimate
May 2011

November 2011
Low Roof (154’)
Complete

Cold Chemical Area (CCA)
Pumps Set
Tanks Set
Roof / Siding

Alpha Finishing Facility (AFF)
Structural Steel
O/H Crane Set
Pumps Set

Decontaminated Salt Solution (DSS) Line

Large ASME Tanks Set in Dark Cells and AFF

High Roof Concrete (176’) Complete

Compressor Pad

Diesel Generator

North Facility Support Area (NFSA)
MCCs Set
Air Handlers Set
Roof / Siding
Bus Supports
Fire Proofing

Chillers

Walls to 176’
Complete

High Roof Rebar

Eastern Facility Support Area (EFSA)

Aerial Picture taken 28 November 2012
Large ASME Vessels
SWPF Tanks after Installation
SWPF High Roof Construction
Completion of High Roof Concrete Placement
Significant Accomplishments

- ARP/MCU pilot and full-scale testing by Parsons prove technology is sound. SWPF Cesium removal and throughputs will meet or exceed design basis.
- Large ASME vessels delivered and installed
- Concrete placement complete to the 176’ level (High Roof)
- Construction at 62% complete
- DNFSB toured the SWPF Facility in May 2012 and returned no Significant Findings
- Modified Monosodium Titanate – Testing Complete. Closed DNFSB Issues regarding mixing
- NGS systemization testing has demonstrated stable operations at 134% of the baseline flow sheet. Formal testing has begun to verify mass transfer and solvent carryover requirements at the elevated throughput.
- Parsons awarded SHARP Certification by South Carolina OSHA
- Achieved two (2) million safe hours
Delay and Cost Increase Drivers

- Large ASME Vessels dominated the delays and cost increases
  - June 2012 - Vessels delivered (two (2) years later than planned)
  - Resulted in changes to construction sequence

- Other NQA-1 vendor performance issues are contributors
  - Pumps, agitators, transfer piping, gloveboxes

- Piping and piping support installation
  - Welders and welding

- Design changes
  - Associated with construction re-sequencing and vendor submittals
Impacts and Challenges

- Liquid Waste Program working with SWPF to determine most favorable case to optimize available funding and synchronize SWPF start-up with Liquid Waste system.
  - Site integrated budget scenarios developed to determine distribution of available funds

- DOE completed Independent Government Cost Estimate (IGCE), an Independent Cost Estimate (ICE) based on preliminary and is completing an External Independent Review (EIR) of those estimates.
Looking Forward/Next Steps

- Maintain strong construction execution progress while addressing funding

- Address estimated cost increase and limit additional overruns
  - IGCE completed to inform DOE position on cost and schedule
  - Contract modification will be required
  - ESAAB approval targeted for mid-November

- Reprogram FY 2012 operating dollars to construction dollars - Immediately

- Reprogram FY 2013 operating dollars to construction dollars - TBD

- Upon ESAAB approval – commence necessary budget/funding changes through OMB