Status of Waste Determination and Tank Closure

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Purpose: Describe the status of heel removal in tanks 18 and 19, comments received on the F Tank Farm Performance Assessment and path forward.

Presentation Overview:
- Tanks 18 and 19 Mechanical Cleaning
- F Tank Farm Performance Assessment Comments
- Path Forward
TMR Sand Mantis® Operations in Tanks 19 and 18

• Began Tank 19 waste removal on 12/4/08
  – 4 days, ~90 hours operation cleaned ~1/6 tank floor, removed ~5000 gallons waste
  – On 12/8/08 back wheel tilt mechanism failed
  – Tank 19 operations suspended and plans to repair initiated
  – Tank 18 crawler modified
TMR Sand Mantis® Tilt Wheel

Original Design

Tank 18 Sand Mantis Retaining Screw
TMR Sand Mantis® Tilt Wheel

Improved Design

Tank 18 Sand Mantis Retaining Cover
TMR Sand Mantis® Operations

• Began Tank 18 waste removal on 1/30/09
  – On 2/4/09 forward/downward water sprays found inoperable
  – On 2/8/09 the wheel on the rear tilt arm assembly disengaged – suspended operations
  – Continued operations 2/13-17/09 removing all mounds of waste, ~ 1 inch waste/water heel remains (~ 3,000 gallons)
  – Designed, fabricated, tested, and installed a footer to facilitate lowering suction head toward waste
  – Re-initiated waste removal on 2/27/09
Tank 18 on 2/17/09
Mock-up of Footer Placement on Crawler in Tank 18
Tank 19 Tilt Arm Modification
F Tank Farm Performance Assessment Comments

• Comments received from
  – South Carolina Department of Health and Environmental Control
  – Environmental Protection Agency
  – Nuclear Regulatory Commission
  – Citizen’s Advisory Board Waste Management Committee

• Excellent comments that will improve overall readability and quality of the document
  – No new modeling anticipated at this time

• Path Forward – revise the F Tank Farm performance Assessment to incorporate comments
Path Forward

• Complete mechanical and chemical cleaning of Tanks 19, 18, 5 & 6 by Fall 2009
• Issue Draft F Tank Farm Closure Plan to SCDHEC and EPA by Fall 2009
• Draft FTF WD Basis issued Summer 2010
• On schedule to close Tanks 18 and 19 by Federal Facility Agreement commitment of December 2012