

# F Tank Farm Status

## Presented to Citizens Advisory Board Waste Management Committee

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Sherri R. Ross  
Tank Closure Program Manager  
Waste Disposition Programs Division  
Savannah River Operations Office



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## Acronyms

CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
DOE	Department of Energy
EPA	Environmental Protection Agency
FTF	F Area Tank Farm
NRC	Nuclear Regulatory Commission
PA	Performance Assessment
SCDHEC	South Carolina Department of Health and Environmental Control
SRS	Savannah River Site
WD	Waste Determination



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# Purpose & Presentation Overview

**Purpose:** Describe the process and status of closing the FTF including the activities performed in 2007 and planned for 2008.

## **Presentation Overview:**

- Pictures of FTF and Tanks
- Tank Closure Process Status
- FTF PA Scoping
  - Meetings
  - Process
  - Topics
  - Lessons Learned
- Upcoming Activities and Schedule



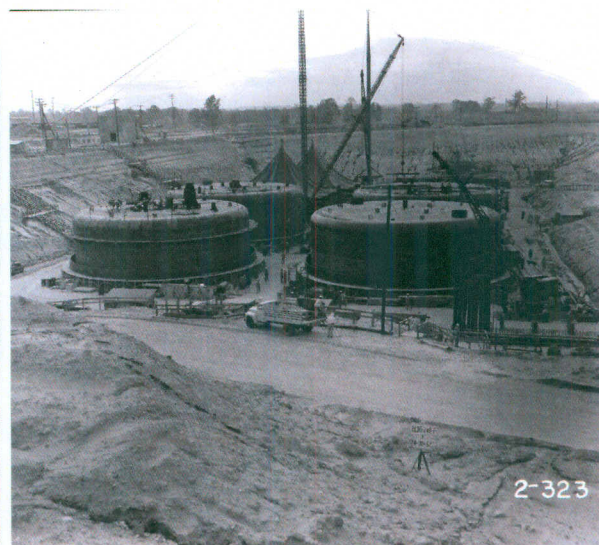
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## F-Tank Farm Layout



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# FTF Type I Tank Construction

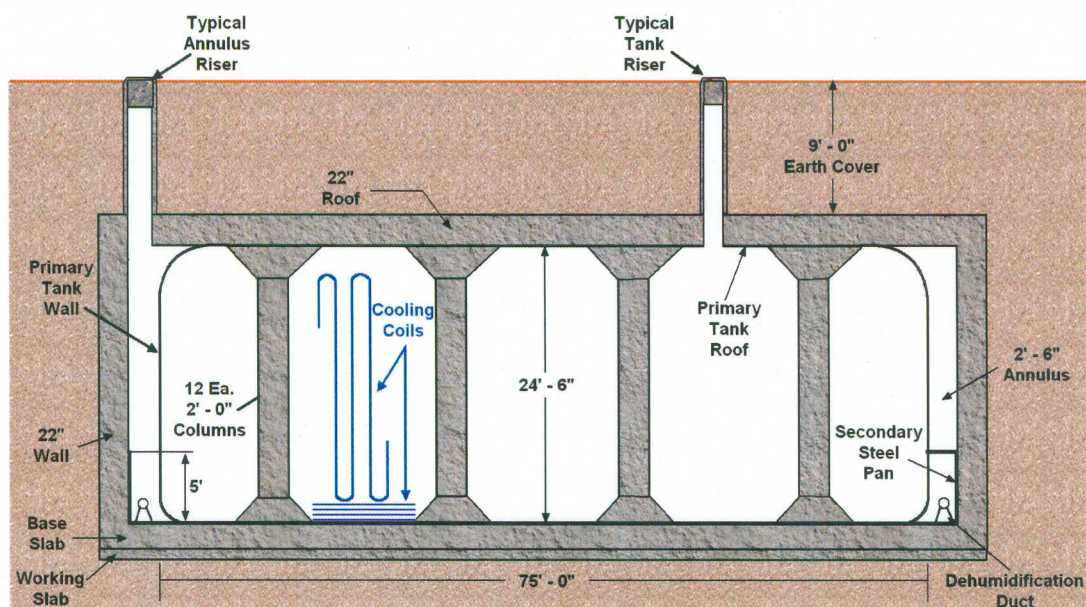


**EM** Environmental Management  
safety ♦ performance ♦ cleanup ♦ closure



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## Type 1 Tank Drawing

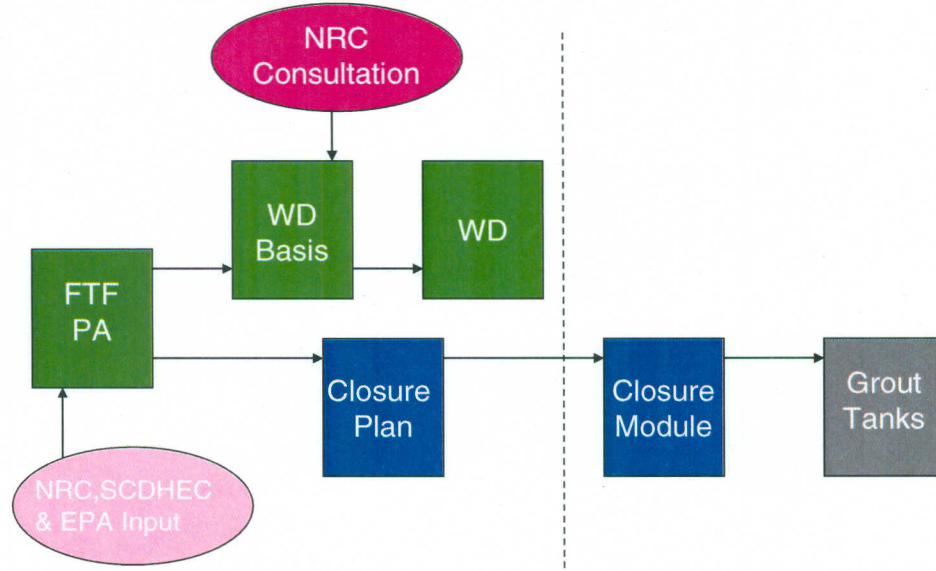


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# Tank Closure Process Status



## FTF PA Scoping Meetings

- Provided forum for open technical discussions and interchange between DOE, SCDHEC, NRC, EPA, and contractors.
- Input parameters and approaches for analyzing the facility performance were discussed.
- Eight meetings between February 2007 and January of 2008.
- Minutes documented on DOE website:

<http://www.em.doe.gov/Pages/3116Summaries.aspx>



# Scoping Meeting Process

- “Input Packages” of proposed approaches and data supplied about four weeks before meetings.
- Meetings involved excellent exchange of information between the technical staff of various agencies.
- The process did not result in “approval” of the inputs and approaches but received valuable comments, concerns and recommended improvements.
- Predominately met in Columbia, SC



# Scoping Meeting Topics

- |   |  |
|---|--|
| • Closure Cap                                   | • Dose Conversion Factors              |
| • Exposure Pathways                             | • Integrated Conceptual Model          |
| • Radiological Screening                        | • Residual Inventory                   |
| • Bioaccumulation Factors and Consumption Rates | • Grout/Concrete Testing Properties    |
| • Risk Assessment Approach                      | • Tank Liner Life Estimates            |
| • Hydrogeology                                  | • PORFLOW Model                        |
| • Waste Tank and Ancillary Equipment Design     | • GoldSim Model                        |
| • Waste Release Mechanisms                      | • Sensitivity and Uncertainty Analyses |
| • Modeling Code Integration                     |  |



# Scoping Meeting Lessons Learned

- Scoping meetings provide excellent opportunity to discuss technical topics early.
- Meeting preparation was labor intensive.
- Process is time consuming.
- Increased quality of FTF PA and technical basis of analysis.



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## Upcoming Activities and Schedule

- DOE issue FTF PA to NRC, SCDHEC and EPA by August 2008.
  - Public educational forum on Performance Assessments ~ Fall 2008.
- Complete mechanical cleaning of Tanks 18 and 19 by December 2008.
- Complete oxalic acid cleaning of Tanks 5 and 6 by December 2008.



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# Summary

- Progress toward tank closures
  - Waste Removal ongoing for Tanks 18, 19, 5, and 6.
  - Documentation to support closure decisions
    - FTF PA available this summer
    - FTF WD ~ Fall 2009
    - FTF Closure Plan ~ Fall 2009

