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Performance Assessment Community of Practice Technical Exchange Meeting

SRS Scoping and Monitoring Experience

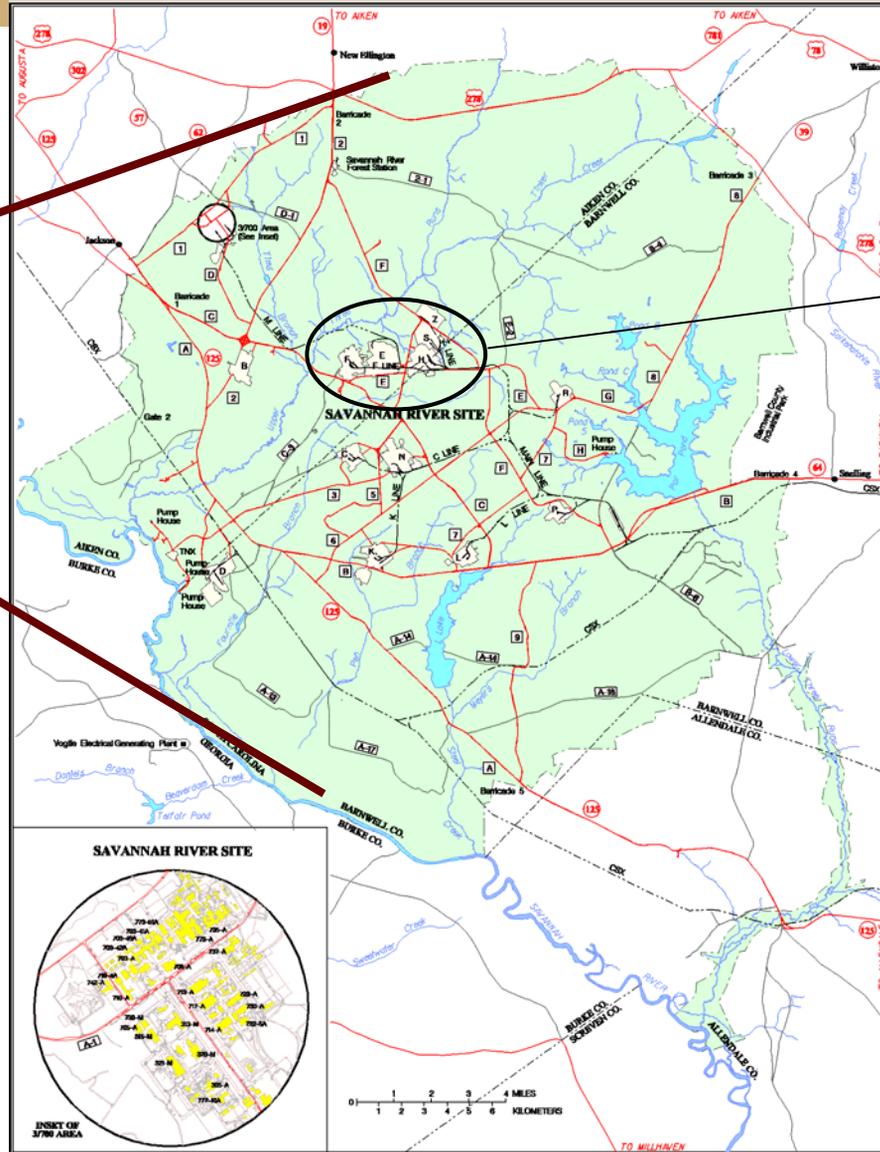
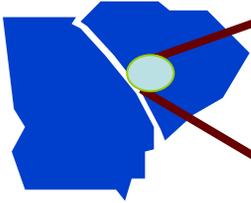
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May 25, 2011

SRR-CWDA-2011-00099

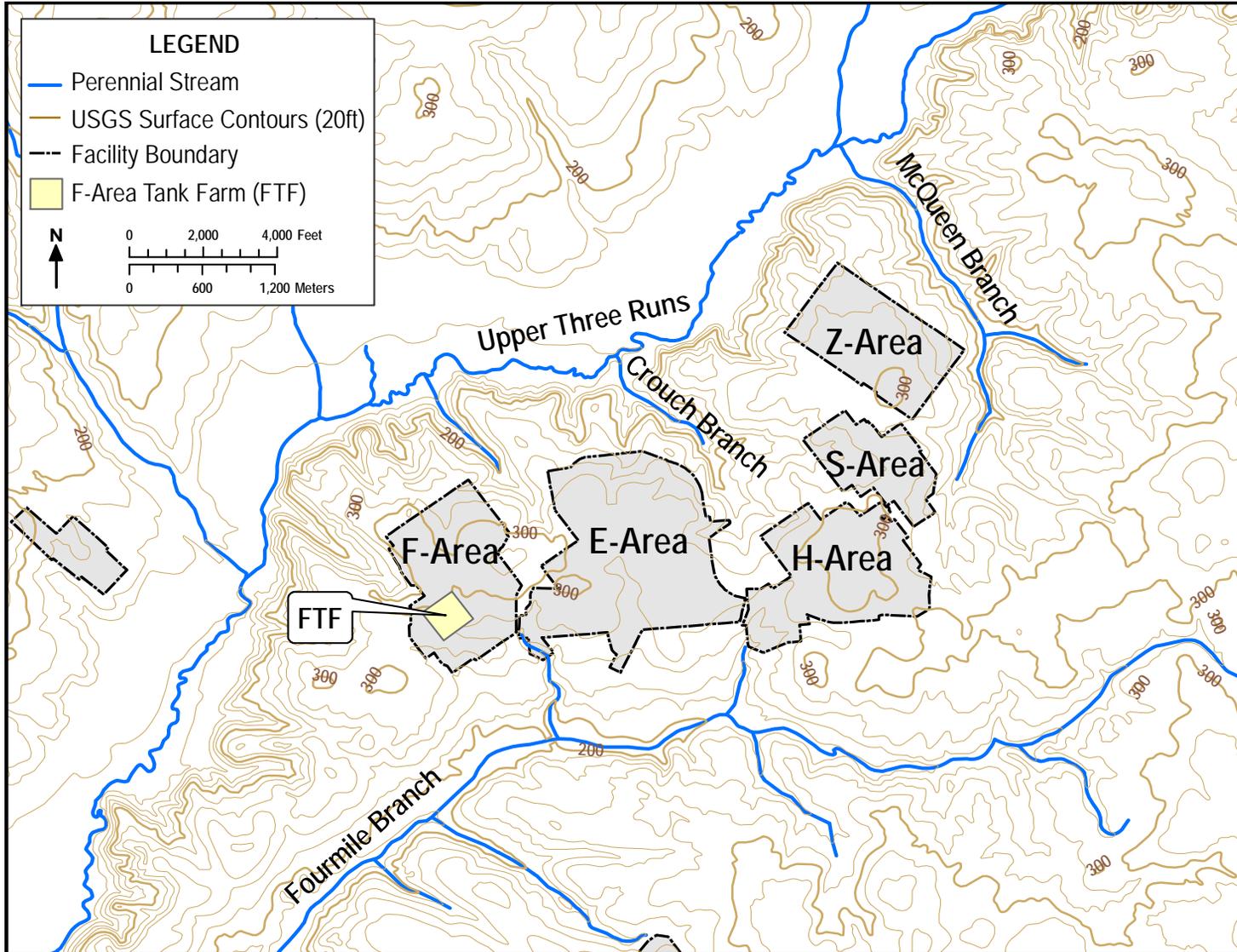
- **Current Status of SRS LW PAs**
 - Three SRS Liquid Waste (LW) PAs in various stages of review
 - Prior to implementation, each of these PAs will have been provided to outside agencies for review and comment prior to final DOE approval and site implementation

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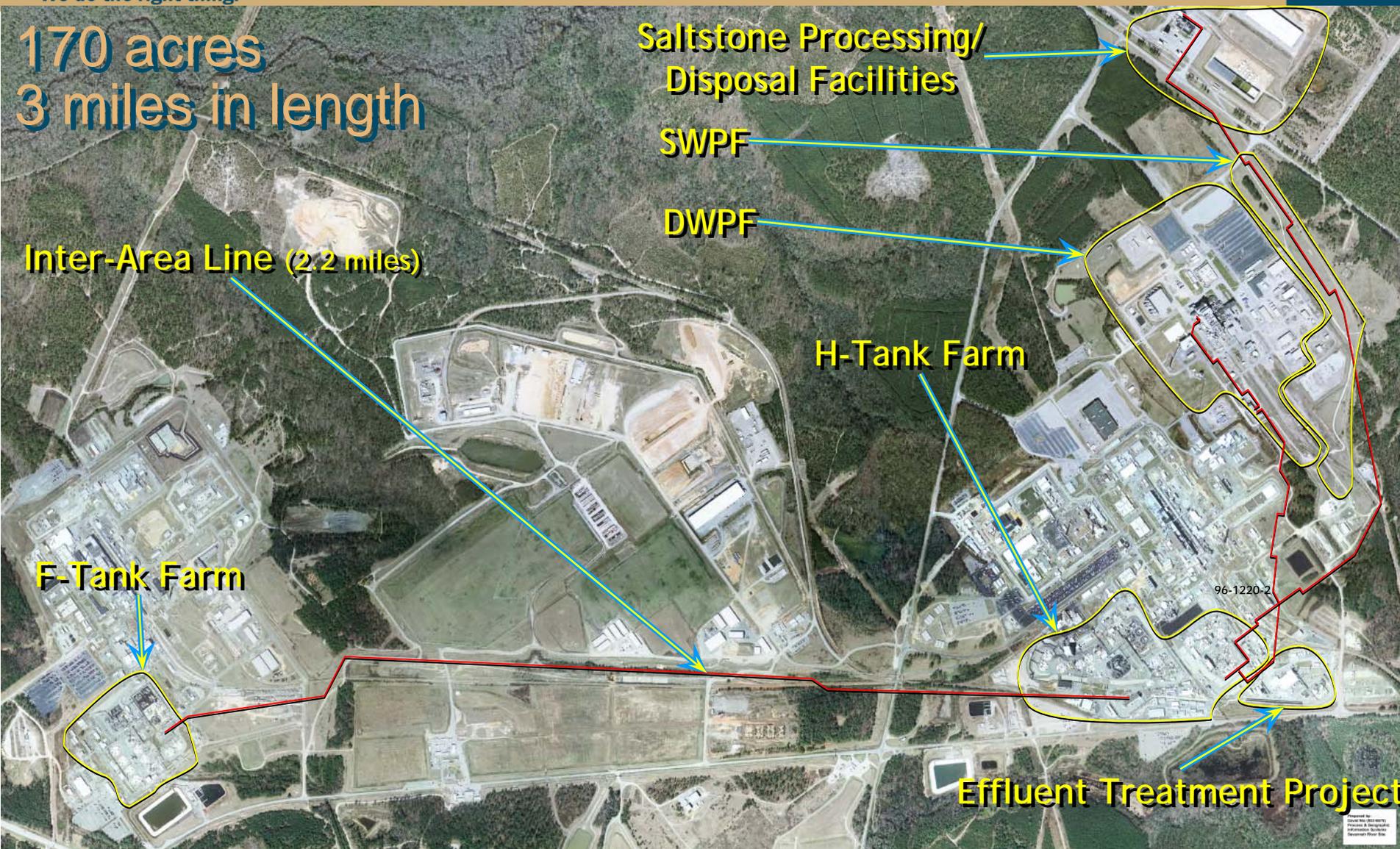


General
Separations
Area

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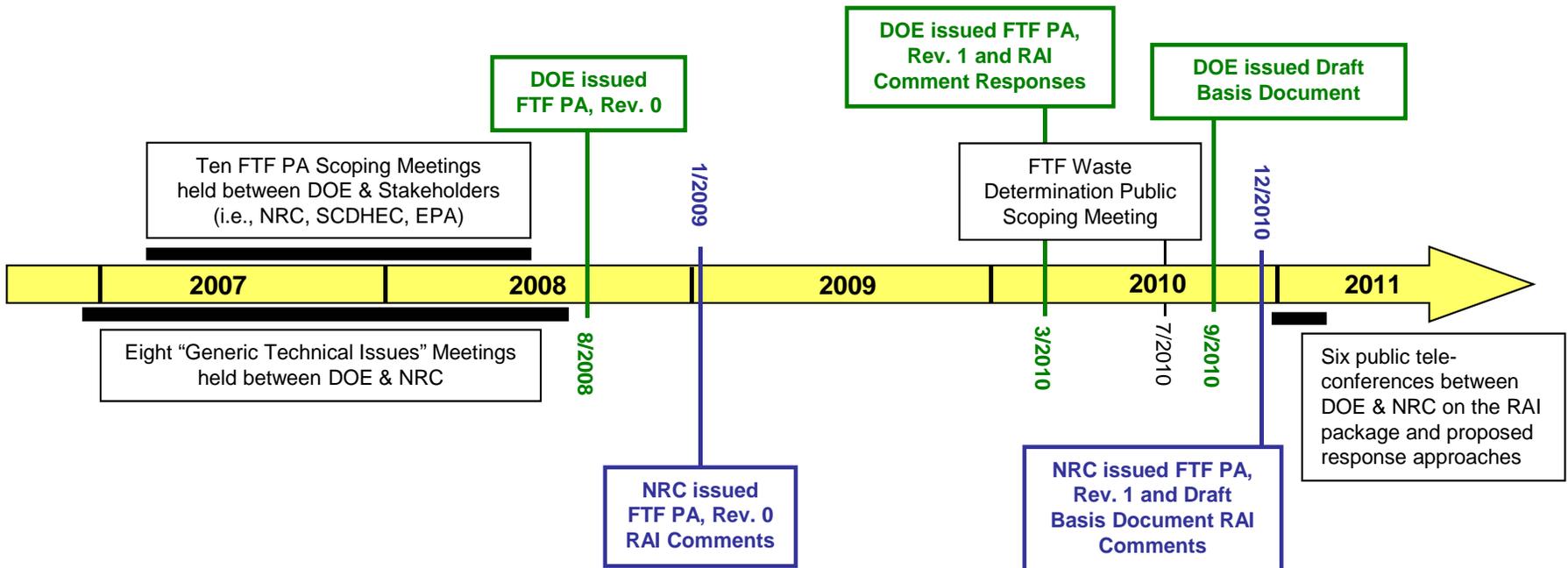


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- **FTF PA**

- Revision 1 issued for review with comments on Revision 0 incorporated as part of NDAA Section 3116 review September 2010
- Responses to comments from Nuclear Regulatory Commission (NRC), South Carolina Department of Health and Environmental Control (DHEC), Environmental Protection Agency (EPA) and public being prepared



- **SDF PA**

- Revision 0 of issued for review in October 2009
- Responses to comments from NRC, EPA, SC DHEC, and public issued March 2010
- Additional comments from NRC received December 2010
- Responses to 2nd round of comments being prepared

- **HTF PA**

- Revision 0 issued to EPA and SC DHEC for review in March 2011
- Comments expected in June 2011
- Will be provided to NRC for comment as part of the Draft HTF Basis Document submittal

SRS Scoping and Monitoring Experiences

- **PA Scoping Meetings**

- SRS LW PAs are reviewed and approved by DOE-HQ
- Goal of scoping meeting process was to gain early input from, and understanding by, stakeholders
- Intent was to provide a forum for open technical discussions and interchange

- **PA Scoping Meetings (cont.)**
 - Scoping meetings allowed for involvement by multiple groups early in the process:
 - DHEC
 - EPA
 - NRC
 - SRS Citizens Advisory Board
 - Public
 - Scoping meeting minutes posted for public access

- **PA Scoping Meetings (cont.)**

- In scoping meetings, emphasis was placed on presenting approaches to be used in initial PA development, versus agreeing to quantified input values
- For FTF, ten meetings were held between February of 2007 and January of 2008 and minutes documented on DOE-HQ website:
http://www.em.doe.gov/stakepages/wmdi_swd.aspx?PAGEID=WMDI

- **PA Scoping Meeting Benefits**
 - Scoping meeting process established foundation for PA development
 - Early stakeholder engagement intended to simplify and shorten reviews of PA
 - Attempt to resolve key issues up front
 - Built a foundation for future PA efforts
 - FTF PA information was used for SDF PA revision and for HTF PA
 - DOE reviews informed by stakeholder inputs

- **PA Maintenance and Monitoring**

- PAs are living documents and PA work is iterative by nature
 - Need to evaluate changes that could affect the PA conclusions
 - Need to conduct research to reduce overall uncertainty
 - New R&D results – both site-specific and general
 - » PNNL work on Hanford tank waste used as support for FTF waste release model
 - DOE workshops / industry conferences
 - Cementitious Barriers Partnership
 - Sensitivity analysis information can guide use of R&D

- **PA Maintenance and Monitoring**

- Required to evaluate PAs annually for continued adequacy, considering results of research, field data and monitoring
- Required to revise PA when significant changes in input data or other new information is identified

- **Scoping Meetings Lessons Learned**
 - Players change from scoping meetings to PA review teams due to time frames
 - Important to document discussions so new players see previous discussions
 - Despite of all this, new reviewers will question issues that you may have thought were settled

- **Scoping Meetings Lessons Learned**
 - Important that approaches are agreed upon since adequate PAs can be developed utilizing different approaches
 - Changes in fundamental approaches not practical late in development process

- **Maintenance & Monitoring Lessons Learned**
 - With three SRS LW PAs (FTF, HTF, SDF) in various stages of approval, need to balance various external inputs
 - New information
 - Modeling improvements
 - Reviewer comments
 - Goal is to ensure that the individual PAs remain adequate risk information tools

- **Maintenance & Monitoring Lessons Learned**
 - Methods and learning are constantly evolving
 - Different SRS LW PAs may have different approaches for specific model areas
 - Approaches being different does not mean that one of the approaches is flawed
 - Key is that new approaches must be evaluated and process needs to be in place to ensure that existing PAs are still protective