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F-Tank Farm NDAA Section 3116 Draft Basis Document Scoping Meeting

Waste Will be Disposed of in Accordance With
Performance Objectives 10 CFR 61.44
(FTF-WDIP-007)

Larry Romanowski
(803) 557-9900 Office
larry.romanowski@srs.gov
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- Input package overview
- NDAA 3116(a) criteria
 - Compliance with 10 CFR 61, Subpart C
- Approach to demonstration of compliance with NDAA 3116(a) criteria
- Draft FTF 3116 Basis Document content

- Input package FTF-WDIP-007 provides information anticipated to be used in Section 7.0, *Waste Will Be Disposed of in Accordance With Performance Objectives in 10 CFR 61, Subpart C*, of the Draft FTF 3116 Basis Document. Specifically, this input package addresses:
 - 10 CFR 61.44, *Stability of the disposal site after closure*

The NDAA Section 3116(a) provides in pertinent part:

[T]he term “high-level radioactive waste” does not include radioactive waste resulting from the reprocessing of spent nuclear fuel that the Secretary of Energy..., in consultation with the Nuclear Regulatory Commission..., determines –

(3)(A) does not exceed concentration limits for Class C low-level waste as set out in section 61.55 of title 10, Code of Federal Regulations, and will be disposed of—

(i) in compliance with the performance objectives set out in subpart C of part 61 of title 10, Code of Federal Regulations; and

FTF-WDIP-005

FTF-WDIP-006

FTF-WDIP-007

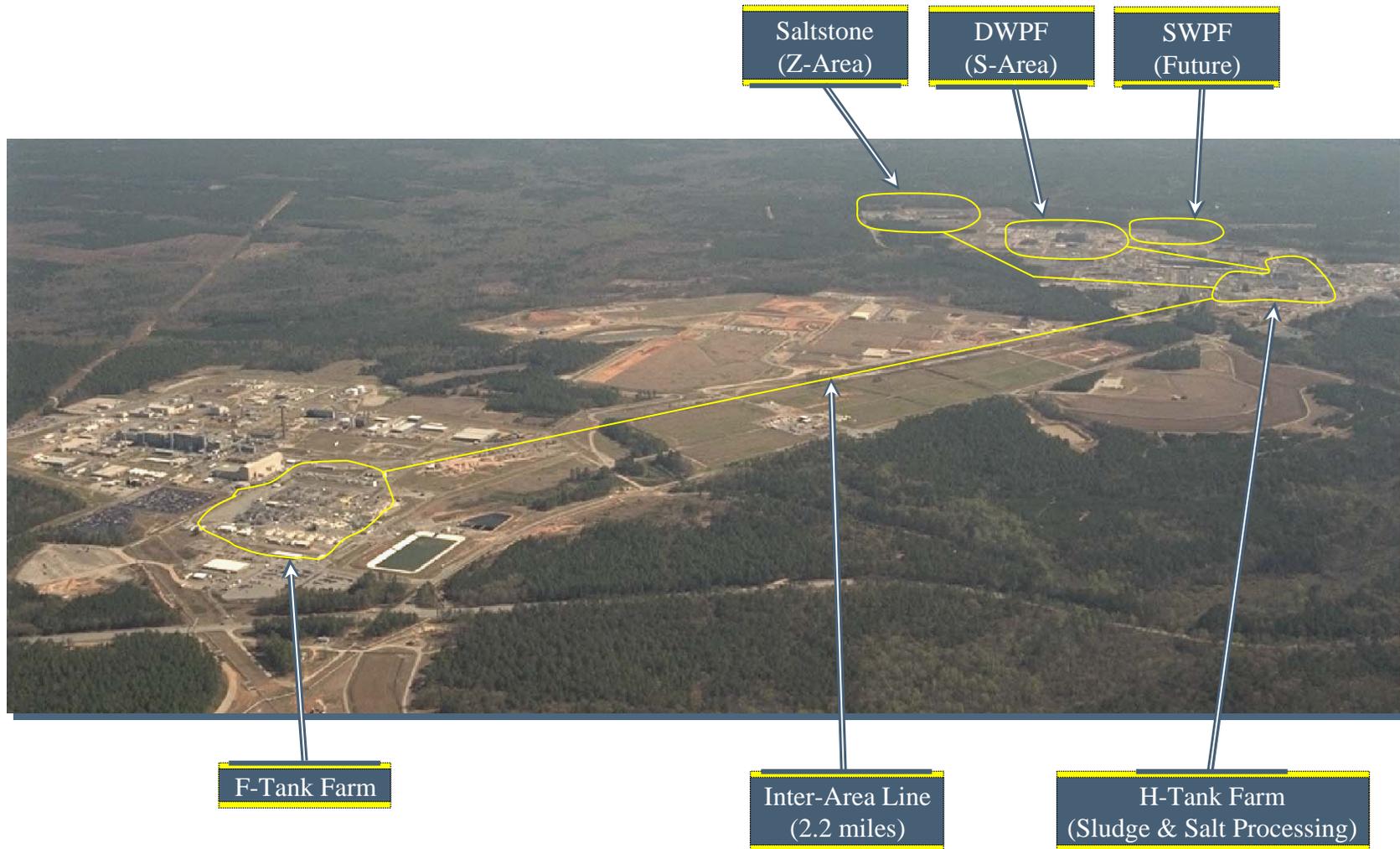
10 CFR 61.40 — General requirement.

Land disposal facilities must be sited, designed, operated, closed, and controlled after closure so that reasonable assurance exists that exposures to humans are within the limits established in the performance objectives in §§61.41 through 61.44.

10 CFR 61.44 — Stability of the disposal site after closure.

The disposal facility must be sited, designed, used, operated, and closed to achieve long-term stability of the disposal site and to eliminate to the extent practicable the need for ongoing active maintenance of the disposal site following closure so that only surveillance, monitoring, or minor custodial care are required.

- Compliance with 10 CFR 61.44 will be provided by demonstrating that the characteristics of FTF and FTF plans for closure provide long-term stability
 - Siting aspects very similar to those provided in the *Basis for Section 3116 Determination for Salt Waste Disposal at the Savannah River Site*
 - Both located in the SRS General Separations Area



- (Cont'd)
 - Design features are similar to waste tanks and tank systems being closed under the *Section 3116 Determination for the Idaho Nuclear Technology and Engineering Center Tank Farm Facility at the Idaho National Laboratory*
 - During use and operation programs are implemented to maintain design features utilized for waste containment
 - To provide long-term stability after closure, plans include filling of the waste tanks and ancillary structures, as necessary, and installation of a final closure cap.

For 10 CFR 61.44

- Level of information consistent with previous 3116 Basis Documents
- Reference to FTF PA for detailed discussions on topics
- Discussion providing FTF siting features which provide long-term stability
 - Seismic considerations
 - Volcanic activity
 - Flooding potential

For 10 CFR 61.44

- Discussion on FTF closure design features which provide long-term stability
 - Water infiltration
 - Structural failure
 - Intruder barriers
- Discussion on programs in place during use/operation which provide long-term stability
 - Corrosion control
 - Structural integrity
 - Groundwater Protection Program

For 10 CFR 61.44

- Discussion on FTF closure features which provide long-term stability
 - Stabilization of waste tanks and ancillary structures
 - Installation of a closure cap
 - Institutional control of FTF

Notes

Notes
