PMVogtleCOLPEm Resource

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Subject: DRAFT - RAI 2616 - SRP section 13.3 - Vogtle Units 3 and 4 Combined License Application
Attachments: VOG Draft RAI 2616 - 13.3.doc

Importance: High

Attached is a draft RAI related to SRP section 13.3 for the Vogtle Units 3 and 4 Combined License Application. Please let me know if you would like to schedule a conference call to discuss this RAI.

Thank you,
Brian

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Request for Additional Information No. 2616
Vogtle Units 3 and 4
Southern Nuclear Operating Co.
Docket No. 52-0025 and 52-0026
SRP Section: 13.03 - Emergency Planning
Application Section: 13.3

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

13.03-***

The COL application incorporates by reference the AP1000 DCD, which includes inspections, tests, analyses, and acceptance criteria (ITAAC) relating to emergency planning on Table 3.1-1 (see Subsection 3.1, "Emergency Response Facilities," of Tier 1 DCD, page 3.1-2). Design Commitment 6 (ITAAC 6) on Table 3.1-1, including its associated acceptance criteria, addresses the habitability of the Control Support Area (CSA). Since the proposed Vogtle Units 3 and 4 Technical Support Centers (TSCs) have been moved from the AP1000 DCD CSAs to a common TSC, located in the Communication Support Center (CSC), it is not clear how TSC habitability requirements will be satisfied for its location in the CSC.

Identify all applicable habitability requirements (radiological and non-radiological) that apply to the TSC located in the CSC, and describe how they will be satisfied. Identify all applicable sections of the COL application and AP1000 DCD. Further, explain the applicability and relevance of ITAAC 6 to the TSC located in the CSC. If it is not applicable, describe how comparable TSC habitability requirements will be met.

13.03-***

In accordance with Standard Review Plan (SRP) Section 15.0.3 (Acceptance Criterion 3), the staff reviews whether the total calculated radiological consequences in the Technical Support Center (TSC) for the postulated fission product releases fall within the exposure acceptance criteria specified in general design criterion (GDC) 19 of 5 rem TEDE (0.05 Sv) for the duration of the design basis accidents (DBAs).

Provide the radiological consequence analyses for the Vogtle TSC for the postulated DBAs. The DBAs are listed and evaluated in Chapter 15 of the certified AP1000 design control document (DCD), Revision 15, and in the AP1000 design certification amendment application (AP1000 DCD, Revision 16). The radiological analyses should include, but are not limited to, the following parameters:

1. TSC ventilation air inlet and recirculation flow rates
2. HEPA filter and charcoal adsorber fission product removal efficiencies
3. TSC unfiltered air in-leakage rate
4. Atmospheric dispersion factors (X/Q values) at TSC air intake
5. TSC occupancy factors
6. TSC free air volume
7. Occupant breathing rate
8. Description of the ventilation design