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Sent: Friday, January 10, 2025 2:01 PM
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NRC-TVA Public Meeting (01/14/2025)

Pre-Application Topics for Discussion

Clinch River Nuclear (CRN) Site Construction Permit

Pre-Application Docket Number: 99902056

- 1) Discussion to clarify the scope of the Clinch River Nuclear Site early site permit (ESP-006) permit conditions listed below with respect to mapping of geology and geologic features in the planned excavation for the reactor building (proposed Category I) and surrounding foundation support structures (proposed Category II) for the BWRX-300 nuclear power plant at the site:

Permit Condition 3: The applicant for a COL or CP application that references this ESP shall perform detailed geologic mapping of excavations for safety-related engineered structures; examine and evaluate geologic features discovered in those excavations; and notify the Director of the Office of New Reactors, or the Director's designee, once excavations for safety-related structures are open for examination by NRC staff.

Permit Condition 4: An applicant for a COL or a CP that references this ESP shall remove the material above El. 225.9 m (741 ft) NAVD 88 in areas where safety-related structures will be located to minimize the adverse effects of discontinuities, weathered and shear-fracture zones, and karst features on the stability of subsurface materials and foundations. The applicant shall also perform additional geotechnical investigations, in accordance with RG 1.132, at the excavation level to identify any potential geologic features that may adversely impact the stability of subsurface materials and foundations.