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Draft Agenda
NRC/Duke Energy Technical Meeting on Oconee Site Inundation Analysis
December 4, 2008

Purposes

- To provide NRC an opportunity to expand on statements made at the Nov. 5, 2008, meeting regarding challenges to successful resolution of Duke's current analytical approach
- To provide Duke an opportunity to substantiate its analytical approach described in its September 29, 2008, 50.54(f) letter response
- To establish a path forward for demonstration of adequate protection and reconstitution of the licensing basis within the timeframes outlined by NRC in the Nov. 5, meeting

Introduction and Opening Remarks

Inundation Analyses

- Status of HEC-RAS Confirmatory Analysis
- Use of 1-D and/or 2-D Modeling Approaches
- Assessment of Bounding Analyses (e.g., overtopping, seismic, cascading dams, random)
- Appropriate Breach Parameter Values and Sensitivity Calculations
  - Breach Size
  - Time to Failure
  - Probable Maximum Precipitation (including cascading dam failures)

Failure Modes and Analyses

- Evaluation of Industry Experience
- Generic Dam Failure Rate
- Treatment of Different Failure Modes
  - Spillway Capacity/PMF Analysis Margin
  - Spillway Gate Reliability
- Experience From Other Dam Studies
- Consideration of Security Vulnerabilities and Protective Measures

Seismic and Civil/Structural Analyses

- Seismic Capacity
- Discussion of Seepage from 2004 to Present
- Settlement of Dam Foundation
- Condition of Embankment Shells and Potential Soil Liquefaction
- Discussion of Dam Construction and Soil Compaction

Status and Content of Procedures in Response to External Flooding

Status of Engineered Solution Analyses

Path Forward Regarding Demonstration of Adequate Protection and Reconstitution of Licensing Basis

Conclusion

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