

**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**