



**NRC-0012**

**Combined License  
Application Review  
William States Lee III  
Units 1 and 2  
Overview Panel  
October 5, 2016**

# **Overview of Staff Review**

- **Lee COL Application and Contents**
- **AP1000 Design Certification**
- **Lee COL Overview – Safety**
- **Lee COL Overview – Environmental**
- **Summary of Staff Findings**

# **Lee 1 and 2 COL Application**

- **In December 2007, Duke Energy Carolinas, LLC (DEC) submitted the application**
- **DEC would be licensed to construct and operate Lee Units 1 and 2**

# **Lee 1 and 2 COL Application**

- **Incorporates by reference the AP1000 DCD, Revision 19**
  - **NUREG-1793 and supplements**
- **Plant-specific information**
- **COL Information Items**
- **Departures from AP1000 DCD**

# **Lee 1 and 2 COL Overview: Safety Review**

- **ACRS Review, 10 CFR 52.87**
  - **Subcommittee – 10/2015**
  - **Full Committee – 12/2015**
  - **ACRS Report – 12/14/2015**
  - **Supported License issuance**
- **FSEER issued August 1, 2016**

# **Required Findings**

- **Findings – 10 CFR 52.97**
  - 1. Applicable standards and requirements of the AEA and the Commission's regulations have been met**
  - 2. Required notifications to other agencies or bodies have been duly made**

# **Required Findings**

- 3. Reasonable assurance that the facility will be constructed and will operate in conformity with the license, the AEA, and NRC regulations**
- 4. Applicant is technically and financially qualified to engage in the activities authorized**

# **Required Findings**

- 5. Issuance of the licenses will not be inimical to the common defense and security or to the health and safety of the public**
- 6. Findings required by Subpart A of 10 CFR Part 51 have been made**

# **Lee 1 and 2 COL Overview: Environmental Review**

- **EIS completed in accordance with:**
  - **NEPA of 1969**
  - **10 CFR Part 51**
- **U.S. Army Corps of Engineers was a cooperating agency**

# **Lee 1 and 2 COL Overview: Environmental Review**

- **Staff follows a systematic approach to evaluate impacts:**
  - **Solicit and reconcile scoping comments**
  - **Conduct technical review**

# **Lee 1 and 2 COL Overview: Environmental Review**

- Issue draft EIS for public/stakeholder comment**
- Consider and respond to comments in preparing final EIS**

# **Lee 1 and 2 COL Overview: Environmental Review**

- **Stakeholder involvement is a key aspect of the process**
- **Final EIS published December 20, 2013, as NUREG-2111**

# **Record of Decision**

- **States the decision**
- **Identifies alternatives considered**
- **Discusses preferences among alternatives**
- **States whether the Commission has taken all practicable measures to avoid or minimize environmental harm**

# **Required Findings**

- **Findings – 10 CFR 51.107(a)**
  - 1. Requirements of Section 102(2)(A),(C), and (E) of NEPA and the regulations in 10 CFR Part 51, Subpart A, have been met**

# **Required Findings**

- 2. After considering the final balance among conflicting factors in the record of the proceeding, the appropriate action is issuance of the COLs**

# **Required Findings**

- 3. After weighing the environmental, economic, technical, and other benefits against environmental and other costs, and considering reasonable alternatives, the COLs should be issued**

# **Required Findings**

- 4. The staff's National Environmental Policy Act (NEPA) review has been adequate**

# Overview of Panel Presentations

<b>Panel</b>	<b>Issues Discussed</b>
<b>Safety (FSER)</b>	<ul style="list-style-type: none"><li>• <b>Site Foundation Response Spectra</b></li><li>• <b>Emergency Operations Facility</b></li></ul>
<b>Environmental (Final EIS)</b>	<ul style="list-style-type: none"><li>• <b>Make-Up Pond C</b></li></ul>

# Acronyms

- **ACRS – Advisory Committee on Reactor Safeguards**
- **AEA – Atomic Energy Act**
- **CFR – Code of Federal Regulations**
- **COL – Combined License**

# Acronyms

- **DCD – Design Certification Document**
- **DEC – Duke Energy Carolinas, LLC**
- **EIS – Environmental Impact Statement**

# Acronyms

- **FSER – Final Safety Evaluation Report**
- **NEPA – National Environmental Policy Act**