United States Nucle



In the Matter of:



Combined License Application Review LNP Units 1 and 2

Overview Panel July 28, 2016

Overview of Staff Review of LNP 1 and 2 COL Application

- LNP COL Application and Contents
- AP1000 Design Certification
- LNP COL Overview Safety
- LNP COL Overview Environmental
- Summary of Staff Findings COL Application

LNP 1 and 2 COL Application

- In July 2008, Progress Energy
 Florida submitted the application
- In April 2013, the applicant changed its name to Duke Energy Florida, LLC (DEF)
- DEF would be licensed to construct and operate LNP 1&2

LNP 1 and 2 COL Application

- Incorporates by reference the AP1000 Design Certification, Amendment 19
- Staff safety evaluation for AP1000 documented in NUREG-1793 and its supplements

LNP 1 and 2 COL Application Contents

- LNP 1 and 2 plant-specific information
- COL Information Items
- Departures from certified design

LNP 1 and 2 COL Overview: Safety Review

- Advisory Committee on Reactor Safeguards (ACRS) Review
 - Five AP1000 Subcommittee meetings and two Full Committee meetings held on COL application and safety evaluation report (SER)

LNP 1 and 2 COL Overview: Safety Review

ACRS Reports	Staff Responses
12/7/11	1/24/12
4/25/12	5/29/12
4/18/16	5/22/16

Final SER issued May 31, 2016

LNP 1 and 2 COL Overview: Required Findings

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

LNP 1 and 2 COL Overview: Required Findings

- Reasonable assurance that facility will be constructed and will operate in conformity with the license, the AEA, and NRC regulations
- Applicants are technically and financially qualified to engage in the activities authorized

LNP 1 and 2 COL Overview: Required Findings

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

- EIS completed in accordance with:
 - National Environmental Policy
 Act of 1969
 - -10 CFR Part 51
- U.S. Army Corps of Engineers was a cooperating agency

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

- Issue draft EIS for public/ stakeholder comment
- Consider and disposition comments in preparing final EIS

- Stakeholder involvement is a key aspect of the process
- Final EIS published April 27, 2012, as NUREG-1941

- Record of Decision:
 - States the decision
 - Identifies all alternatives considered

- Record of Decision, continued:
 - Discusses preferences among alternatives
 - -States whether the Commission has taken all practicable measures, within its jurisdiction, to avoid or minimize environmental harm

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

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

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

The staff's NEPA review has been adequate

Overview of Panel Presentations

Panel	Issues Discussed	Evaluation
Safety	 Geologic and geotechnical site characteristics Roller compacted concrete foundation design Condensate return design change 	FSER
Environmental	 U.S. Fish and Wildlife Service Biological Opinion Alternative Sites 	FEIS

Acronyms

- ACRS Advisory Committee on Reactor Safeguards
- AEA Atomic Energy Act
- CFR Code of Federal Regulations
- COL Combined License
- DC Design Certification
- DEF Duke Energy Florida, LLC
- EIS Environmental Impact Statement

Acronyms

- FEIS Final Environmental Impact Statement
- FSER Final Safety Evaluation Report
- LNP Levy Nuclear Plant
- NEPA National Environmental Policy Act
- SER Safety Evaluation Report