

Planning Meeting with Duke Energy for Possible Combined License Application



March 14, 2004



Meeting Agenda

- Introductory Remarks
Dave Matthews, NRC
Laura Dudes, NRC
- Duke Power Executive Overview
Jim Fisicaro, Duke Energy
- Nominal NRC Review Schedule and Resources
John Thrasher, Duke Energy
Nanette Gilles, NRC
- Combined License (COL) Referencing Non-Certified Design
John Thrasher, Duke Energy
Jerry Wilson, NRC
- NRC Review of COL application Guidance
Joseph Colaccino, NRC
- COL Application Preparation Timeline
John Thrasher, Duke Energy
Amy Cabbage, NRC
- Pre-Application Interactions
John Thrasher, Duke Energy
Amy Cabbage, NRC
- Inspection Guidance
Mary Ann Ashley, NRC
- Site Redress Plans Limited Site Development
John Thrasher, Duke Energy
Jerry Wilson, NRC
- Closing Remarks
Laura Dudes, NRC
Bryan Dolan, Duke Energy
- Public Comments



Nominal NRC Review Schedule and Resources for COL

- Schedule estimates from SECY-01-0188, “Future Licensing and Inspection Readiness Assessment”
 - ◆ COL referencing ESP & DC 27 months*
 - ◆ COL referencing ESP only 33-60 months*
 - ◆ Design certification 42-60 months**

- Current ESP reviews, existing site 33 months

* Nominal 1 year hearing assumed

** Assumes 1 year design certification rulemaking



Nominal NRC Review Schedule and Resources for COL

- Current best estimates for COL resources
 - ◆ COL referencing ESP & DC 55 FTE, \$3500K
(COL application review only)
 - ◆ COL referencing ESP only 100 FTE, \$8500K
(from SECY-01-0188)
 - ◆ Design certification 50-75 FTE, \$5500-7500K

- ESP reviews 15-25 FTE, \$2500K



NRC Review of NEI-04-01

- NEI-04-01, Rev D, “Draft Industry Guideline for Combined License Applicants Under 10 CFR Part 52”
 - ◆ Submitted by NEI task force on December 21, 2004
 - ◆ Draft intended as vehicle for discussion with NRC
 - ◆ NEI intends the final document to provide guidance on the preparation of a COL application
- NEI-04-01 Base Case
 - ◆ COL application that references both a certified design and a permitted site



NRC Review of NEI-04-01 (continued)

- NRC Infrastructure Activities Impacting NEI-04-01 Development
 - ◆ 10 CFR Part 52 Rulemaking
 - ◆ Construction Inspection Program
 - ◆ COL Operational Program Review
- Current Status of NRC Activities
 - ◆ NEI-04-01 receiving broad NRC review
 - ◆ First round of comments to be provided to NEI in June 2005
 - ◆ NEI committed to provide Revision E of the document by August 2005.



COL Preparation issues

- Meteorological data collection
- Antitrust



Meteorology Guidance

- Reg Guide 1.23 “Onsite Meteorological Programs”
- Reg Guide 1.70, Rev 3, “Standard Format and Content Of Safety Analysis Report for Nuclear Power Plants”
- Reg Guide 1.111, Rev 1, “Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors”
- Reg Guide 1.145, Rev 1, “Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants”
- Reg Guide 1.194, “Atmospheric Relative Concentrations for Control Room Radiological Habitability Assessments at Nuclear Power Plants”
- Reg Guide 4.2, Rev 2, Preparation of Environmental Reports for Nuclear Power Stations
- Reg Guide 4.7, Rev 2, “General Site Suitability Criteria for Nuclear Power Stations”
- NUREG-0800, “Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants”
- NUREG-1555, “Standard Review Plans for Environmental Reviews for Nuclear Power Plants “
- RS-002, “Processing Applications for Early Site Permits”



Antitrust Review

- Section 105c of the Atomic Energy Act provides the statutory basis for NRC antitrust reviews
- 10 CFR Part 50 Appendix L and 10 CFR 50.33a provide requirements for antitrust review
- 10 CFR Part 2 contains some procedural information on the antitrust review process
- Antitrust information must be submitted to the NRC at least nine months but not more than thirty-six months prior to the date of submittal of the COL application
- NRC provides the information to the Department of Justice for review
- Antitrust review conducted in parallel with design and siting review



Pre-Application Interactions

- Quality Assurance Program Review
 - ◆ NUREG-0800, “Standard Review Plan”, Section 17.1
 - ◆ Early interaction encouraged
- Seismic Data Collection
 - ◆ NRC observation at site
- Public Meeting at Site prior to COL Application
- Emergency Planning
 - ◆ Guidance available
- Engineering Design Verification
 - ◆ NRC Inspection



Inspections to Support COL Application Review

- NUREG-1789, “10 CFR Part 52 Construction Inspection Program Framework Document,” April 2004
 - ◆ Provides general approach
- Inspection Manual Chapter 2502 – Pre-COL Inspections – due July 2005.
 - ◆ Basic inspection requirements assuming ESP and Certified Design
 - ◆ Identifies supplemental inspections to support applications without ESP or Certified Design
 - ◆ Emphasis on QA, environmental, and first-of-a-kind engineering
- First-of-a-kind (FOAK) Engineering
 - ◆ New inspection procedure – due July 2005
 - ◆ For use to review completion of a certified design or for a total review of a custom design
- Implementation schedule – as soon as needed, even before the application is submitted if components are being ordered