

Combined License Application (COLA) Review North Anna 3 (NA3)

**Overview Panel
March 23, 2017**

Overview of Staff Review

- **NA3 COL Application and Contents**
- **NA3 COL Overview – Safety**
- **NA3 COL Overview – Environmental**
- **Summary of Staff Regulatory Findings**

NA3 COL Application

- **In November 2007, Dominion Virginia Power (Dominion) submitted the application**
- **Dominion would be licensed to construct and operate NA3**

NA3 COL Application

- **Incorporates by reference the ESBWR DCD, Revision 10 – certified by rule in 10 CFR Part 52, Appendix E**
- **Site-specific design information**
- **COL Information Items**
- **Exemptions, Variances and Departures from ESBWR DCD**

NA3 COL Overview: Safety Review

- **ACRS Review, 10 CFR 52.87**
 - **Subcommittee – 10/19/2016**
 - **Full Committee – 11/03/2016**
 - **ACRS Report – 11/15/2016**
 - **Supported license issuance**
- **FSER issued January 12, 2017**

Required Findings

- **Findings – 10 CFR 52.97 & 10 CFR 51.107**
 - 1. Applicable standards and requirements of the AEA and the Commission's regulations have been met**
 - 2. Required notifications 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 license 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**

Environmental Review

- **Environmental Review completed in accordance with:**
 - **NEPA of 1969**
 - **10 CFR Part 51**
- **COL Referencing an ESP**
 - **By regulation, review takes the form of a supplement to the EIS**

Environmental Review

- **Staff followed a systematic approach to evaluate impacts:**
 - **Solicited and reconciled scoping comments: Scope was focused by 10 CFR 51.92**
 - **Conducted technical review**

Environmental Review

- Issued draft COL SEIS for public/stakeholder comment in December 2008**
- Considered and dispositioned comments in preparing final COL SEIS**
- Final COL SEIS issued in March 2010**

Environmental Review

New Information Assessment

- **Staff followed internal guidance to determine if a supplement to the COL SEIS should be prepared as required by 10 CFR 51.92**
- **No substantial changes or new information identified that would warrant a supplement**

Environmental Review

- **Record of Decision:**
 - **States the decision**
 - **Identifies all alternatives considered**
 - **Discusses preferences among alternatives**

Environmental Review

- **Record of Decision (cont.):**
 - **States whether the Commission has taken all practicable measures, within its jurisdiction, to avoid or minimize environmental harm**

Environmental Review 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**

Environmental Review Required Findings (cont.)

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

Environmental Review Required Findings (cont.)

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

Environmental Review Required Findings (cont.)

- 4. The staff's NEPA review has been adequate**

Overview of Panel Presentations

Panel	Issues Discussed
Safety (FSER)	<ul style="list-style-type: none">• Mineral, Virginia Earthquake• Seismic Exceedance of DCD CSDRS
Environmental (COL SEIS)	<ul style="list-style-type: none">• Overview of ESP EIS and COL SEIS

Acronyms

- **ACRS – Advisory Committee on Reactor Safeguards**
- **AEA – Atomic Energy Act**
- **CFR – Code of Federal Regulations**
- **COL – Combined License**
- **COLA – Combined License Application**
- **CSDRS – Certified Seismic Design Response Spectrum**

Acronyms

- **DCD – Design Certification Document**
- **Dominion – Dominion Virginia Power**
- **EIS – Environmental Impact Statement**
- **ESBWR – Economic Simplified Boiling Water Reactor**
- **ESP – Early Site Permit**

Acronyms

- **FSEER – Final Safety Evaluation Report**
- **NA3 – North Anna 3**
- **NEPA – National Environmental Policy Act**
- **NRC – Nuclear Regulatory Commission**
- **SEIS – Supplemental EIS**