

South Carolina Electric & Gas Company Virgil C. Summer Nuclear Station Units 2 and 3 Combined Licenses

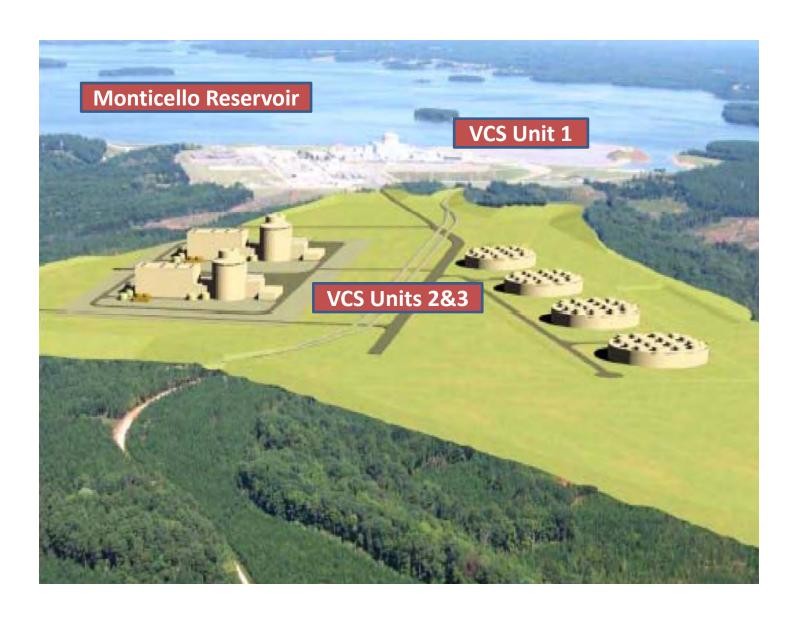
Mandatory Hearing October 12-13, 2011

Introduction and Overview

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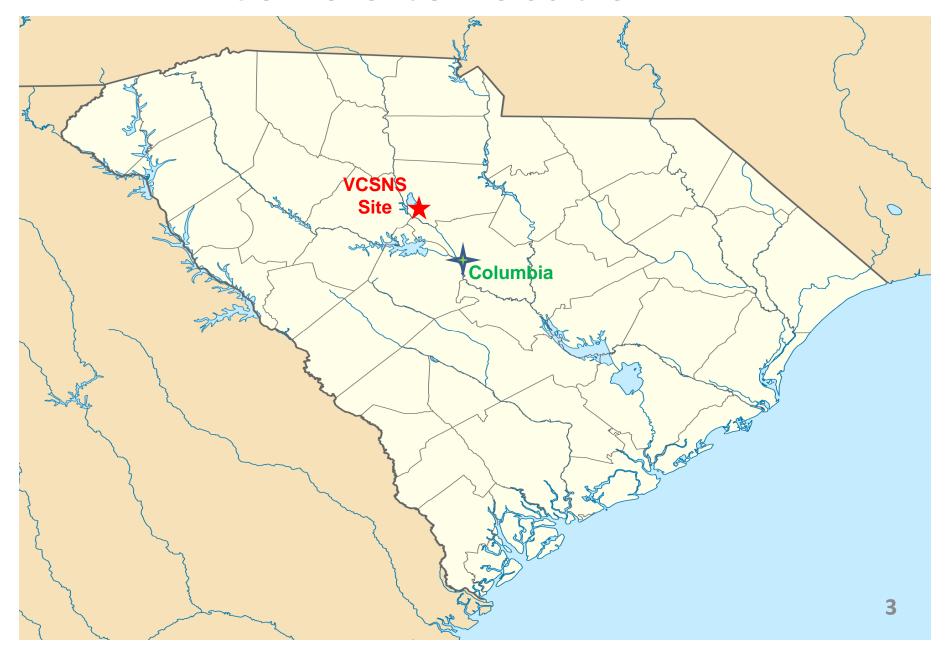


VCSNS Site





VCSNS Site Location

































Application Content

- Combined License Application (COLA) for two units submitted March 2008
- Meets content requirements of Part 52, Subpart C, "Combined Licenses"
- Incorporates by Reference the AP1000 Design Control Document (DCD) Amendment
- First Subsequent (S)-COLA
- NRC Guidance Utilized
 - Regulatory Guide 1.206
 - NUREG-0800 (as updated for Part 52)
 - NUREG-1555
- Other industry documents promoting standardization



VCSNS COLA Submittal

- Incorporates by Reference the AP1000 DCD, Revision 19
- 17 distinct parts to the application
 - 10 containing primarily standard AP1000 information
 - 5 of these parts contain program information that is essentially identical to the Reference (R)-COLA
 - 7 site-specific parts
- S-COLA Overview



VCSNS COLA Safety Content

- Compliance with 10 CFR Part 52 Requirements
 - Sections 52.73, 52.75, 52.77, 52.79 and 52.80
- Compliance with 10 CFR 50.33
- Compliance with 10 CFR Part 52, Appendix D
- Utilized NRC Guidance Regulatory Guide 1.206 and NUREG-0800
- Final Safety Evaluation Report (FSER) issued August 2011



VCSNS COLA Safety Content - Departures

Standard

- Final Safety Analysis Report (FSAR) Numbering and Organization (administrative)
- Voltage Regulating Transformer Design
- Site-specific
 - FSAR Numbering and Organization for Chapter 2 (administrative)
 - Emergency Facility Locations
 - Wet-bulb



VCSNS COLA Safety Content - Exemptions

- Standard
 - DCD Numbering and Organization
 - Material Control and Accountability (MC&A)
 Program Description (Consistent with Part 50 requirements)
- Site-specific
 - Wet-bulb Exemption from DCD Site Parameter (Maximum Safety Noncoincident Wet Bulb Temperature)



VCSNS Environmental Report (ER)

- Prepared using NUREG-1555
- Two revisions to the ER
- Table 1.3-1 delineates 10 CFR Part 51 requirements
- Utilized previous environmental studies
 - Unit 1 License Renewal data
 - Unit 1 monitoring data
- Final Environmental Impact Statement (FEIS) issued April 2011



ER Content

- Chapter 1 Introduction
- Chapter 2 Environmental Description
- Chapter 3 Plant Description
- Chapter 4 Impacts of Construction
- Chapter 5 Impacts of Station Operation
- Chapter 6 Environmental Measurements and Monitoring Programs



ER Content

- Chapter 7 Environmental Aspects of Postulated Accidents
- Chapter 8 Need for Power
- Chapter 9 Proposed Action Alternatives
- Chapter 10 Environmental Consequences of the Proposed Action
- Appendix A Agency Letters



Resource Areas

- Cultural Resources
- Aquatic and Terrestrial Ecology
- Water Use
- Land Use
- Socioeconomics/Environmental Justice
- Radiation Protection
- Alternatives



Key Agency Interfaces

SC DEPT. OF HEALTH AND ENVIRONMENTAL CONTROL

- Stormwater Permits for land disturbance
- Batch Plant Air Permit
- Construction Permit for Water/ Wastewater
- National Pollutant Discharge Elimination System Permit for Water/Wastewater
- 401 Water Quality Certification

OTHER AGENCIES

- SC Dept. of Transportation Road Modification Permit
- Norfolk Southern Railroad Modification Permit
- State Historic Preservation
 Officer/U.S. Army Corps of Engineers
 (USACE) MOU
- SC Public Service Commission (CPCN)
- US DOE (spent fuel contract)
- FERC License Amendment
- USACE 404 Wetlands Permit
- SC Department of Natural Resources,
 US Fish and Wildlife Service, National
 Marine Fisheries Service



ER Environmental Conclusions

- Impacts of the project are SMALL except:
 - Localized traffic during construction (MODERATE to LARGE)
 - Transmission line construction (MODERATE)
- Benefits include:
 - Fuel diversity and emissions avoidance
 - Socioeconomic: jobs, local spending, and taxes



VCSNS Site

