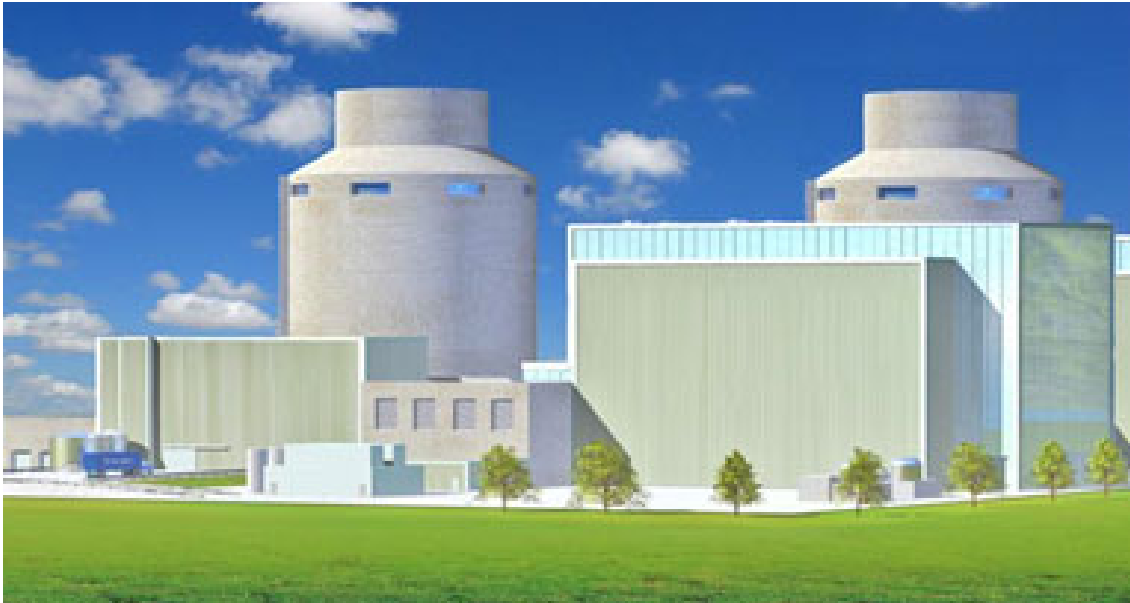

RIC 2007
Environmental Reviews for New Reactors

Environmental Permits for New Reactors
March 15, 2007

Theodore J. Bowling
Duke Energy, New Plant Development

William S Lee III Nuclear Station



William S. (Bill) Lee III

Steps to Permitting Success



- Early engagement with State and Local Regulators
- Permit Plan
- Integrated Schedule
- Benchmarking

Lee Nuclear Station State and Local Regulators



- SC Department of Health and Environmental Control
- SC Department of Natural Resources
- SC Department of History and Archives
- SC Office of Regulatory Support
- SC Emergency Management Division
- Cherokee County Building and Fire Safety Department
- Cherokee County Emergency Preparedness Department
- Cherokee County Roads and Bridges Department

Duke Energy Interactions with State and Local Regulators



- Initial Briefing Shortly After Project Announcement
 - Introduce project staff and background on project
 - Explain role of state/county in NRC license process
 - Clarify information regulator will require
 - Establish utility/regulator partnership
- Open Communications
 - Add regulators to master mailing list
 - Provide periodic updates on project status
- Permit Applications/Negotiations

Table 1. Listing of Required Environmental Permits

<u>PERMIT OR REGULATORY DECISION</u>	<u>PERMIT TYPE</u>	<u>PERMIT OWNER</u>	<u>PERMIT NEEDED PRIOR TO</u>	<u>AGENCY LEAD TIME</u>	<u>DUKE PREP TIME</u>	<u>RISK</u>	<u>DISCUSSION/ COMMENTS</u>
Bureau of Air Quality Construction Permit (Permanent air emitting equipment to be installed for plant operations) (SC R. 61-62)	State	William Horton	Construction (Will also cover 1 st 12 mos of operation)	4 mos.	3 wk	Low	Cherokee will not be a major emitter so permit will be routine. Design Engineering Contractor to provide inventory of all non-self-propelled diesel or gas powered air emitting equipment to be installed on site. Will need to permit all diesel and gas powered generators that exceed 400 hp.
Concrete Batch Plant BAQ Permit (Form IIF) (May be part of BAQ Construction Permit) (SC R. 61-62)	State	EPC Contractor or Batch Plant Contractor	Construction	4 mos	Need Contract or Data	Low	Requires information on Batch Plant design. Need to engage Batch Plant contractor early to obtain information in time for SCDHEC to process permit.
Bureau of Air Quality Construction Permit (All contractor construction sources) (SC R. 61-62)	State	EPC Contractor	Construction (Will also cover 1 st 12 mos of operation)	4 mos.	3 wk	Low	Contractor to provide Owner inventory of all non-self-propelled diesel or gas powered air emitting equipment brought on site including record of hours of operation. Contractor provide evidence of permit for all diesel and gas powered generators that exceed 400 hp.
Surface Water Protection Permitting							
Water Withdrawal Registration	State	Robert Wylie	See Comments	NA	14 Days	Low	Must file within 30 days of construction of intake.
Water Use Permit (Water withdrawal from Broad River)	Duke	Robert Wylie	Construction			Low	Permit Issued by Duke Energy Lake Management Wade Harmon (382-8577)
Sec 401 Water Quality Certification (SCDHEC) (SC R61-101)	State	Robert Wylie	Construction	12 mos	6 mos	Low	Certification granted after State review of CoE 404 permit.
Public Water Supply System (SC R. 61-58.)	State	Robert Wylie	Construction	45 days	3 mos	Low	Considering tie to public water; would eliminate need for this permit.

Permit Schedule



- Internal Benchmark to Other Duke Energy Plant Permit Plans
- Benchmark to Independently Generated A/E Permit List
- Benchmark to NuStart Members Permit Plans

QUESTIONS