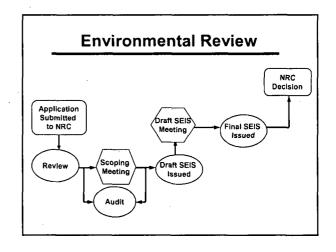


### **Meeting Overview**

- Project and Process Background
- Results of environmental review
- Environmental review schedule
- How to submit comments outside this meeting
- Accept oral and written comments

# **License Renewal**

- Current operating licenses expire on January 16, 2027 and February 9, 2029
- Southern Nuclear Operating Company requests authorization to operate Plant Vogtle, Units 1 and 2, for an additional 20 years



### License Renewal

- National Environmental Policy Act (NEPA) requires Federal agencies to use a systematic approach to consider environmental impacts
- NRC prepares a Supplemental Environmental Impact Statement (SEIS) for all proposed license renewals
- Public Involvement is part of this process

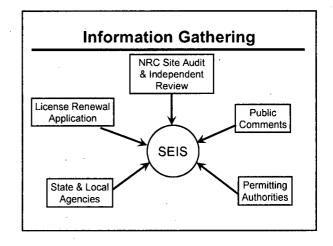
#### **Environmental Review**

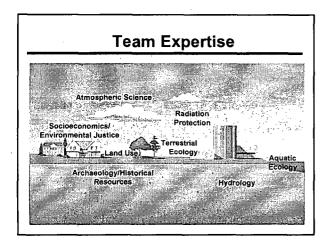
#### Scope

- Generic Environmental Impact Statement (GEIS)
  - 69 Category 1 issues
- Site-specific Supplemental Environmental Impact Statement (SEIS)
  - . 23 remaining issues
- New and Significant Information

### Decision Standard for Environmental Review

To determine whether or not the adverse environmental impacts of license renewal for Plant Vogtle are so great that preserving the option of license renewal for energy planning decisionmakers would be unreasonable.





### Environmental Impacts of Continued Operation

- Cooling system
- Threatened or Endangered Species
- Radiological Impacts
- Postulated Accidents
- Cumulative Impacts

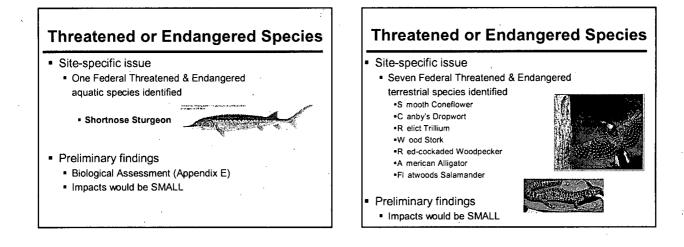


## How Impacts are Quantified

- NRC-defined impact levels:
  - <u>SMALL</u>: Effect is not detectable or too small to destabilize or noticeably alter any important attribute of the resource.
  - MODERATE: Effect is sufficient to alter noticeably, but not destabilize important attributes of the resource.
  - LARGE: Effect is clearly noticeable and sufficient to destabilize important attributes of the resource.

# Cooling System Impacts

- Twenty-Five Category 1 issues
- Preliminary findings
  - No new and significant information identified
  - GEIS concluded impacts are SMALL



# **Radiological Impacts**

- Category 1 issues
  - Radiation exposures to the public
  - Occupational radiation exposures
- Preliminary findings
  - No new and significant information identified
  - GEIS concluded impacts are SMALL

## **Postulated Accidents**

- Design-basis accidents
- Severe accidents
  - Severe accident mitigation alternatives (SAMAs)

#### SAMA Evaluation Process

- 16 potential SAMAs considered
- 2 SAMAs identified as cost-beneficial
  - <u>Neither</u> relate to managing the effects of aging; therefore, neither are required as part of license renewal

#### **Cumulative Impacts of Operation**

- Considered impacts of renewal term operations combined with other past, present, and reasonably foreseeable future actions
- Evaluated to end of 20-year renewal term
- Preliminary Findings
  Considered potential construction of proposed Units 3 and 4
- Impacts could range from SMALL to LARGE

#### **Alternatives**

- License not renewed (No-action)
- Conservation

- New generation (coal, natural gas, nuclear)
- Purchased electrical power
- Other alternatives (wind, solar, biomass, etc.)
- Combination of alternatives

Alternative energy sources

#### Alternatives

- Preliminary Findings
  - Potential impacts from NOT renewing licenses range from <u>SMALL to LARGE</u>
  - Environmental impacts of likely power-generation alternatives could reach <u>MODERATE to LARGE</u> significance in some impact areas

#### **Preliminary Conclusions**

- Impacts of license renewal are SMALL for all impact areas
- Impacts of likely power-generation alternatives, including not renewing the licenses, may reach MODERATE to LARGE in some impact areas
- The NRC staff's preliminary recommendation is that the environmental impacts of license renewal for Vogtle Units 1 and 2 are not so great that license renewal would be unreasonable

### Plant Vogtle Environmental Review Milestones

Draft Supplemental EIS issued April 2008

•Comment Period ends July 16, 2008

•Final Supplemental EIS to be issued January 2009

# **Additional Information**

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- . The draft SEIS and GEIS can be viewed at:
  - Burke County Library 216 Highway 24 South, Waynesboro
  - Online: NRC Reading Room

http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437

## Submitting Comments

- By e-mail: Vogtle\_LR\_EIS@nrc.gov
- By mail: Chief, Rules, Directives and Editing Branch Division of Administrative Services Mailstop T- 6D59 U.S. NRC Washington, DC 20555
- In person: 11555 Rockville Pike Rockville, Maryland