

# Preliminary Results of Environmental Review Sątawba Units 1 and 2

Nuclear Regulator emmission
June 27, 2



# Purpose of Today's Meeting

- > Discuss NRC's license renewal process
- > Describe the environmental review process
- > Discuss the results of our review
- > Provide the review schedule
- > Accept any comments you may have today
- > Describe how to submit comments

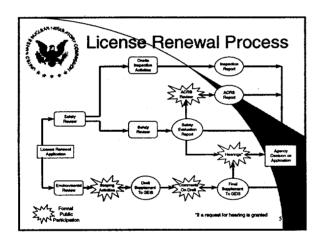


### Catawba Units 1 and 2 License Renewal

- > Operating licenses expire in 2024 (Unit 2)
- ➤ Application requests authorization to operate units for up to an additional 20 years



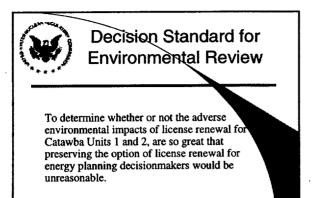
- > Safety review
- > Environmental review
- > Plant inspections
- > Advisory Committee on Reactor Safeguards (ACRS)

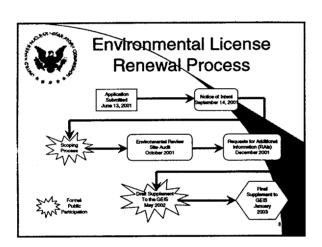


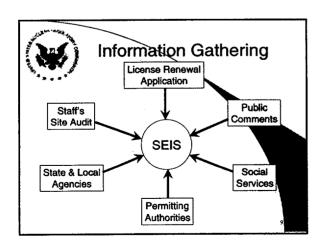
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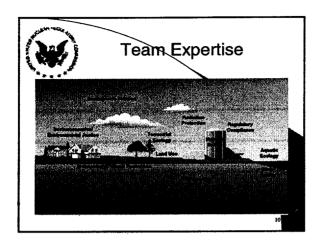
# National Environmental Policy Act

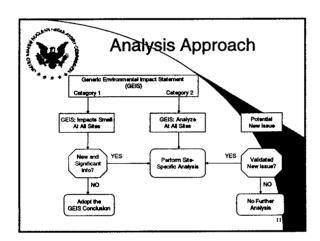
- ➤ NEPA requires Federal agencies to a systematic approach to consider environmental impacts
- > Commission has determined that an environmental impact statement (EIS) will be prepared for a license renewal action

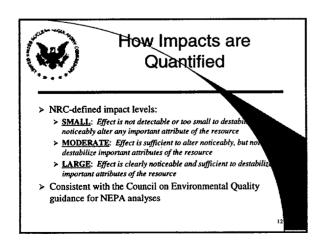


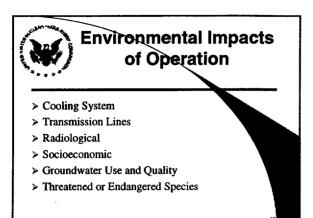


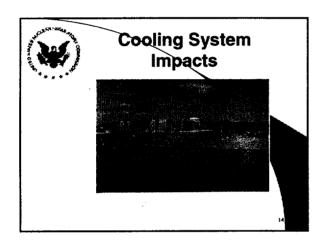


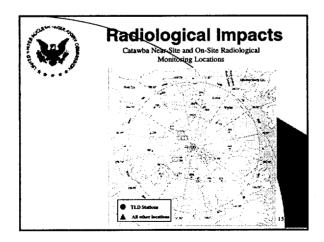


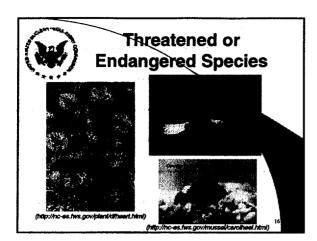


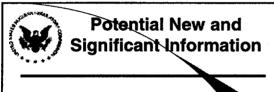




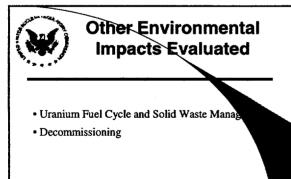








- > No new and significant information identifi
  - during scoping
  - by the licensee
  - by the staff





## **Alternatives**

- No-action
- New generation
- Purchased electrical power
- Alternative technologies
- Combination of alternatives

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# Preliminary Conclusions for Alternatives

 Alternatives (including the no-action altern may have environmental effects in at least so impact categories that reach MODERATE or LARGE significance

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## Preliminary Results of Analysis

- > Design-Basis Accidents
- > Severe Accidents
  - > Severe Accident Mitigation Alternatives (SAMAs)

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## **Preliminary Results of** SAMA Evaluation

- > 14 candidate improvements evaluated
  - > 6 related to reducing core damage frequency



#### Preliminary Results of SAMA Evaluation (continued)

- > Overall Conclusion:
- Additional plant improvements to further mit severe accidents are not required at Catawba Units 1 and 2 as part of license renewal pursuant to 10 CFR Part 54
- Improvements to hydrogen control and installation of watertight wall being further evaluated as current operating license issues



#### Conclusion

- > Impacts of license renewal are SMALD impact areas
- > Impacts of alternatives to license renewal ra from SMALL to LARGE
- > The staff's preliminary recommendation is that adverse environmental impacts of license renew for Catawba Units 1 and 2 are not so great that preserving the option of license renewal for energy planning decisionmakers would be unreasonable



# Environmental Review Milestones

- > Draft EIS issued 5/13/02
- > Comment period 5/21/02 to 8/9/02
- > Final EIS issued 1/03

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### Point of Contact

- > Agency point of contact:
  - James H. Wilson (800) 368-5642, Ext. 1108
- Documents located at the York County Public Library, Rock Hill, SC, and can be viewed at the NRC's Web site (www.nrc.gov)
- > Draft SEIS can also be viewed at: www.nrc.gov/reading-rm/doc-collections/nuregs/ staff/sr1437/supplement9/



### NRC Addresses

- Provide comments:
- > By mail at: Chief, Rules and Directives another

Division of Administrative Ser

Mailstop T-6D59

U.S. Nuclear Regulatory Commissi

Washington, D.C. 20555

➤ In person at: 11545 Rockville Pike

Rockville, Maryland

> E-mail at: CatawbaEIS@nrc.gov

> On-line comment form with web version of draft



