

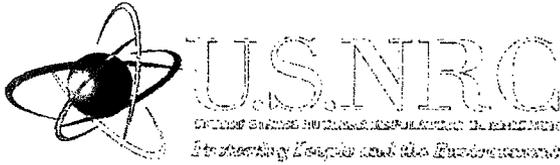


**Byron Station, Units 1 and 2  
License Renewal Process and  
Environmental Scoping Meeting**



# Purpose of Today's Meeting

- Provide overview of license renewal review process
  - Safety review
  - Environmental review
  
- Receive public input on environmental review
  - Describe how to submit comments
  - Accept comments today



# NRC Regulatory Oversight

- NRC's Governing Statutes
  - Atomic Energy Act
  - National Environmental Policy Act (NEPA)
- NRC's Mission
  - Protect Public Health and Safety
  - Promote Common Defense and Security
  - Protect Environment



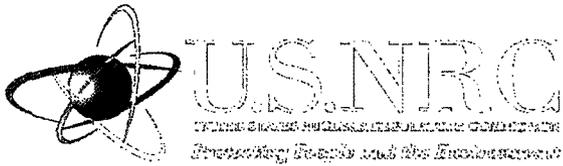
# Byron Station License Renewal

- **Byron Station, Units 1 and 2**
  - Unit 1, License expiration date  
10/31/2024
  - Unit 2, License expiration date  
11/06/2026
- **Renewal application dated 5/29/2013**

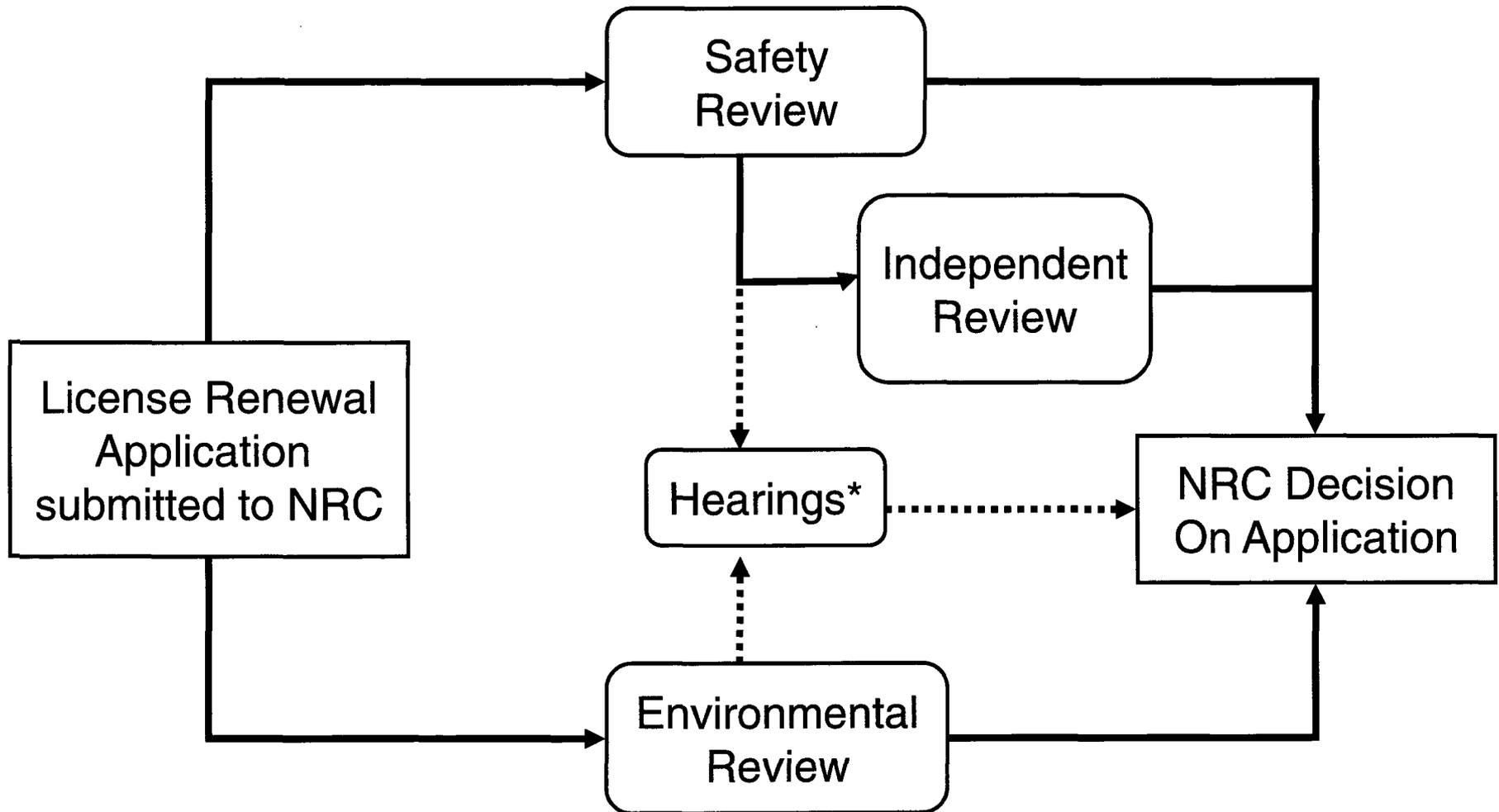


# Contents of Application

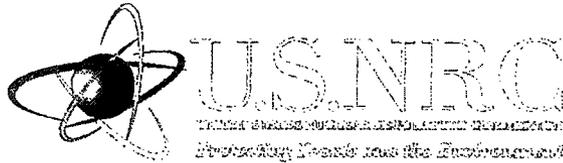
- General information about the plant owner or operator
- Technical information about plant structures and components and how the applicant proposes to manage plant aging
- Environmental Report



# License Renewal Process



\* If a Request for Hearing is Granted



# License Renewal Review Overview

## ➤ Safety Review

- Focuses on the aging effects of components and structures important to plant safety
- Staff review is to determine whether aging effects will be effectively managed
- Considers generic and site specific operating experience related to the effects of aging

## ➤ Environmental Review

- Considers, analyzes, and discloses environmental impacts of continued plant operation and alternatives to license renewal
- Staff review is to determine if the environmental impacts of license renewal are so great that license renewal would be unreasonable



# Ongoing Regulatory Oversight

- Emergency Planning
  - 10 CFR 50.47
- Security
  - 10 CFR Part 73
- Current Safety Performance

operating reactor performance web site:

[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BYRO1/byro1\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BYRO1/byro1_chart.html)

[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BYRO2/byro2\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BYRO2/byro2_chart.html)



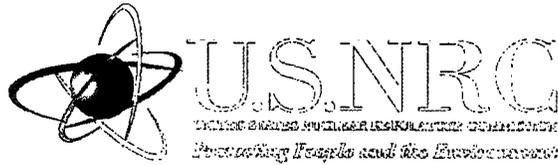
## License Renewal Safety Principles

- The ongoing regulatory process is adequate to ensure the safety of all currently operating plants
  
- The same plant operating rules apply during the renewal term
  - NRC applies additional conditions for aging management



# Safety Review

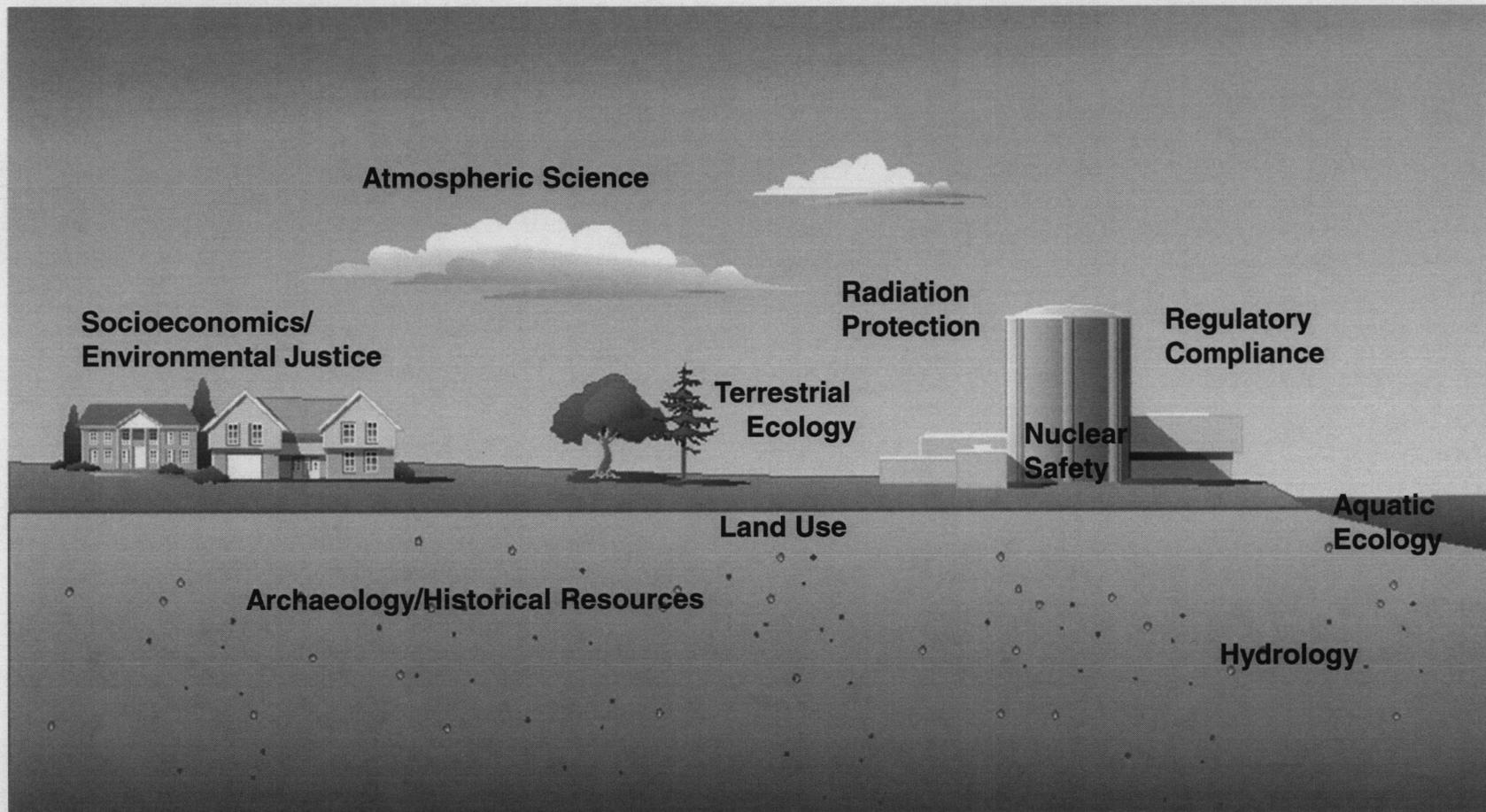
- **Safety Review by NRC technical staff**
  - Review application and supporting documentation
  - On-site audits
  - Issue Safety Evaluation Report
- **On-site inspections by Region III Inspectors**
- **Independent review by the Advisory Committee on Reactor Safeguards**



# Environmental Review

- National Environmental Policy Act (NEPA)
  - Informs Federal decision making
  - Public disclosure of environmental impacts and other considerations
- NRC's Environmental Regulations
  - 10 CFR Part 51
- Staff prepares an Environmental Impact Statement

# Reviewing Areas

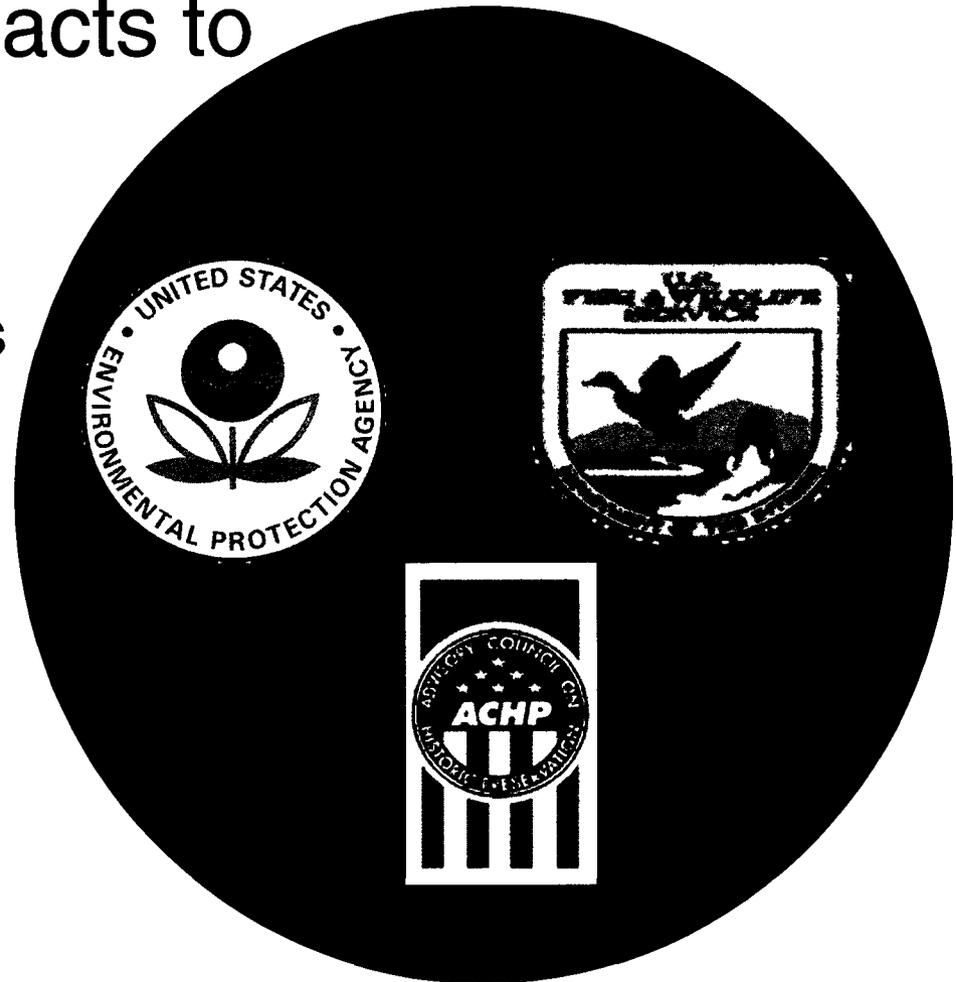




# Environmental Impact Statement

## ➤ Staff Evaluates Impacts to Resources

- Wildlife and Fish
- Water and Air Resources
- Historical or Cultural Resources
- Taxes, Community Development, Environmental Justice
- Human Health
- Land Use





# Cumulative Impacts

- Overall impacts to environment including past, present, and reasonable foreseeable future actions
  - evaluated to end of 20-year renewal term
  - geographic boundaries dependent on resource

# Waste Confidence

- NRC Waste Confidence Rule (WC) addresses the environmental impacts of continued storage of spent fuel after the licensed life (including renewal).
- Consistent with the Commission direction, Byron renewed licenses will not be issued until the issues related to waste confidence are appropriately addressed.
- WC Generic Environmental Impact Statement is being developed by the WC directorate, to be completed in 2014.



# Environmental Review Scope

## Scoping Process

- Generic (Programmatic) Environmental Impact Statement (GEIS)
- Site-specific Supplemental Environmental Impact Statement (SEIS)
- New and significant information on generic conclusions reached in the GEIS

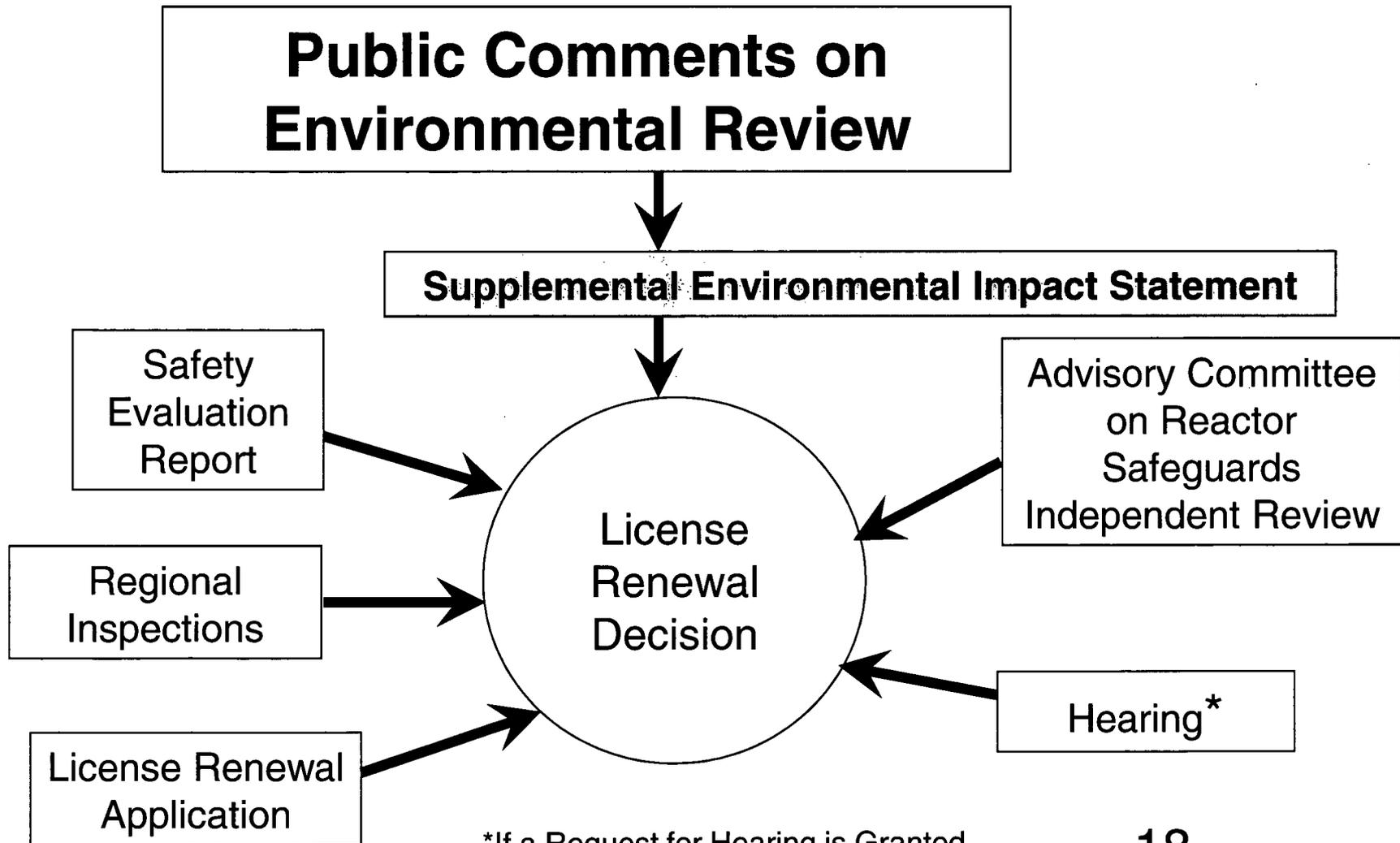


## Scoping and Public Involvement

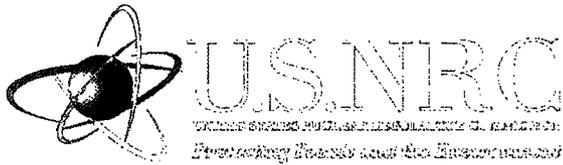
- What about your community should the NRC focus on in the EIS?
- What local environmental issues should the NRC examine?
- What reasonable alternatives are appropriate for the area?



# Role of Public Comments on Environmental Review



\*If a Request for Hearing is Granted



# Submitting Comments on the Scope of the Environmental Review

## ➤ Provide written comments:

✓ By mail: Chief, Rules, Announcements and Directives Branch  
Division of Administrative Services  
Mailstop 3WFN-06A44MP  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

✓ Website: <http://www.regulations.gov>,  
Docket ID NRC-2013-0169

✓ In person: 11545 Rockville Pike, Rockville, Maryland



# Environmental Review Milestones

- |                                       |                |
|---------------------------------------|----------------|
| ➤ Application Received                | May 29, 2013   |
| ➤ Notice of Receipt and Availability  | June 13, 2013  |
| ➤ Notice of Opportunity for Hearing   | July 25, 2013  |
| ➤ Notice of Intent for Scoping        | July 31, 2013  |
| ➤ Environmental Scoping Meeting       | Aug. 20, 2013  |
| ➤ Petition to Request for Hearing Due | Sept. 23, 2013 |
| ➤ Scoping Comments Due                | Sept. 27, 2013 |
| ➤ Draft SEIS Issued                   | August 2014    |
| ➤ Draft SEIS Public Meeting           | September 2014 |
| ➤ Draft SEIS Comments Due             | October 2014   |
| ➤ Final SEIS Issued                   | May 2015       |

Safety review schedule can be viewed at the NRC site:  
<http://www.nrc.gov/reactors/operating/licensing/renewal/applications/byronbraidwood.html>



## Additional Information

- Environmental Contact:
  - Lois James, (800) 368-5642, ext. 3306
- Safety Contact:
  - John Daily, (800) 368-5642 ext. 3873
- Documents located at:
  - Byron Public Library, 100 S. Washington St,  
Byron, IL 61010
- Documents can be viewed at the NRC site:  
<http://www.nrc.gov/reactors/operating/licensing/renewal/applications/byronbraidwood.html>



## Scoping and Public Involvement

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