



**Preliminary Results of the
Environmental Review for
Peach Bottom Atomic Power Station
Units 2 and 3
Subsequent License Renewal**

September 12, 2019

Agenda

- Opening Remarks
- NRC's Regulatory Role
- Peach Bottom Background
- Environmental Review
- Preliminary Findings
- Environmental Review Milestones
- Submitting Public Comments

NRC's Regulatory Role

- **NRC's Primary Governing Statutes**
 - Atomic Energy Act
 - Energy Reorganization Act
 - National Environmental Policy Act (NEPA)

- **NRC's Mission**
 - Protect public health and safety
 - Promote the common defense and security
 - Protect the environment

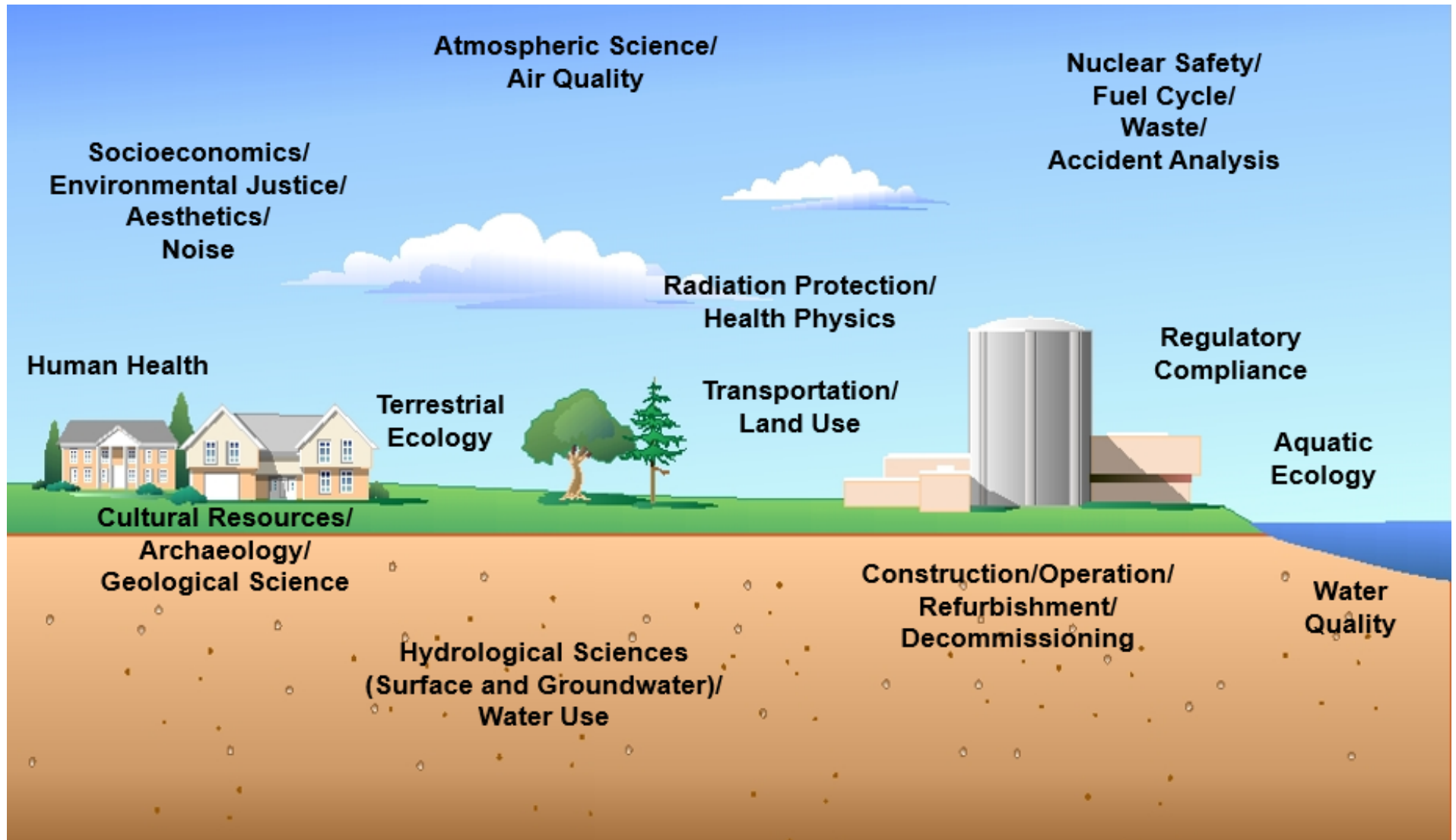
Peach Bottom Background

Description	Unit 2	Unit 3
Operating Licenses Issued	10/25/1973	07/02/1974
First Renewed Licenses Issued	05/07/2003	
First License Renewal Expires	08/08/2033	07/02/2034

Environmental Review

- **Generic Environmental Impact Statement (GEIS)**
 - Addresses environmental issues common to all plants (or a distinct subset of plants) during the license renewal term
- **Supplemental Environmental Impact Statement (SEIS)**
 - Addresses site-specific environmental issues during the license renewal term
 - Includes any new and significant information regarding generic issues, an evaluation of alternatives, and an evaluation of cumulative impacts

SEIS: Environmental Issues Evaluated



How Impacts are Defined

- **SMALL**
 - Effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource
- **MODERATE**
 - Effects are sufficient to alter noticeably, but not to destabilize, important attributes of the resource
- **LARGE**
 - Effects are clearly noticeable and are sufficient to destabilize important attributes of the resource

How Impacts are Defined

- **Federally Listed Species and Critical Habitat (Endangered Species Act)**
 - No effect
 - May affect but is not likely to adversely affect/adversely modify
 - May affect and is likely to adversely affect/adversely modify
- **Essential Fish Habitat (Magnuson-Stevens Act)**
 - No adverse impacts
 - Minimal adverse impacts
 - Substantial adverse impact

How Impacts are Defined

- **Cultural and Historic Resources (National Historic Preservation Act)**
 - May adversely affect
 - May not adversely affect
- **Environmental Justice (Executive Order 12898)**
 - Disproportionally high and adverse impacts

Site-Specific Impacts

Resource Area	Impact
<ul style="list-style-type: none">• Land Use/Visual Resources• Air Quality/Noise• Geologic Environment• Surface Water Resources• Groundwater Resources• Terrestrial Resources• Socioeconomics• Transportation• Human Health• Waste Management and Pollution	SMALL

Site-Specific Impacts

Resource Area	Impact
<ul style="list-style-type: none"> Aquatic Resources 	<ul style="list-style-type: none"> SMALL to MODERATE
<ul style="list-style-type: none"> Special Status Species and Habitats 	<ul style="list-style-type: none"> May affect, but is not likely to adversely affect Northern long-eared bat and Indiana bat May affect Chesapeake logperch No adverse effects on Essential Fish Habitat
<ul style="list-style-type: none"> Historic and Cultural Resources 	<ul style="list-style-type: none"> Would not adversely affect known historic properties or historic and cultural resources
<ul style="list-style-type: none"> Environmental Justice 	<ul style="list-style-type: none"> No disproportionate high and adverse human health and environmental effects

Cumulative Impacts

- Overall impacts to the environment including past, present, and reasonably foreseeable future actions
- Actions that were considered include:
 - Electric generation facilities in York and Lancaster County
 - Nuclear power plants within 50 miles of Peach Bottom
 - Transportation projects
 - Pipeline projects
 - Other construction projects
- Climate Change

Alternatives

- Alternative energy sources analyzed (power replacement)
 - New nuclear (small modular reactors)
 - Coal
 - Natural gas
 - Combination alternative (natural gas, wind, solar, and purchased power)
- No-action alternative

Preliminary Conclusion

- The adverse environmental impacts of license renewal are not so great that preserving the option of subsequent license renewal for energy-planning decisionmakers would be unreasonable

Environmental Review Milestones

- Draft SEIS published July 30, 2019
- Start of Comment Period August 9, 2019
- Draft SEIS Public Meeting September 12, 2019
- Draft SEIS Comments Due September 23, 2019
- Final SEIS January 2020

Obtaining the Draft SEIS

- **Public Library:**

- Harford County Public Library – Whiteford Branch,
2407 Whiteford Rd, Whiteford, MD 21160

- **NRC Public Website:**

- <https://www.nrc.gov/docs/ML1921/ML19210A453.pdf>

Contact Information

- Reactor License Renewal -
<https://www.nrc.gov/reactors/operating/licensing/renewal.html>
- Peach Bottom Atomic Power Station Units 2 and 3 –
Subsequent License Renewal Application -
<https://www.nrc.gov/reactors/operating/licensing/renewal/applications/peach-bottom-subsequent.html>
- Peach Bottom Listserv:
<http://www.nrc.gov/public-involve/listserver/plants-by-region.html>
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How to Submit Comments

- By mail: Office of Administration
Mail Stop: TWFN-7-A60M
ATTN: Program Management, Announcements
and Editing Branch
U.S. Nuclear Regulatory Commission
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- Internet: www.regulations.gov
Docket ID: NRC-2018-0130
- **Comments due by September 23, 2019**