

Preliminary Findings of the Environmental Review for Perry Nuclear Power Plant Unit 1 License Renewal

October 2024

Lance Rakovan, Senior Environmental
Project Manager

Agenda

- Introductions and Purpose
- Opening Remarks
- Environmental Review
- Draft Environmental Impact Statement
Preliminary Findings
- Draft EIS Participant Contact Information
- Public Participation

Meeting Logistics

- NRC is actively soliciting comments on the draft Environmental Impact Statement (EIS) to aid the NRC staff's review
- For this virtual meeting, participants are in listen-only mode until the comment session
- No regulatory decisions will be made at today's meeting

Introductions and Purpose

- Vaughn Thomas, Safety Review Lead, Office of Nuclear Reactor Regulation (NRR)
- Lance Rakovan, Environmental Review Lead, Office of Nuclear Material Safety and Safeguards (NMSS)
- Stephen Koenick, Chief, Environmental Project Management Branch 1, NMSS
- John Moses, Deputy Director, Division of Rulemaking, Environmental, and Financial Support, NMSS

U.S. Nuclear Regulatory Commission – An Independent Regulatory Agency

NRC MISSION

We license and regulate U.S. civilian use of radioactive materials, protecting public health and safety, promoting the nation's common defense and security, and protecting the environment

STATUTORY AUTHORITY

- *Atomic Energy Act of 1954*
- *Energy Reorganization Act of 1974 split the Atomic Energy Commission into the NRC and the predecessor of the Energy Department*



**Strategic
Plan**
Fiscal Year
2022-2026



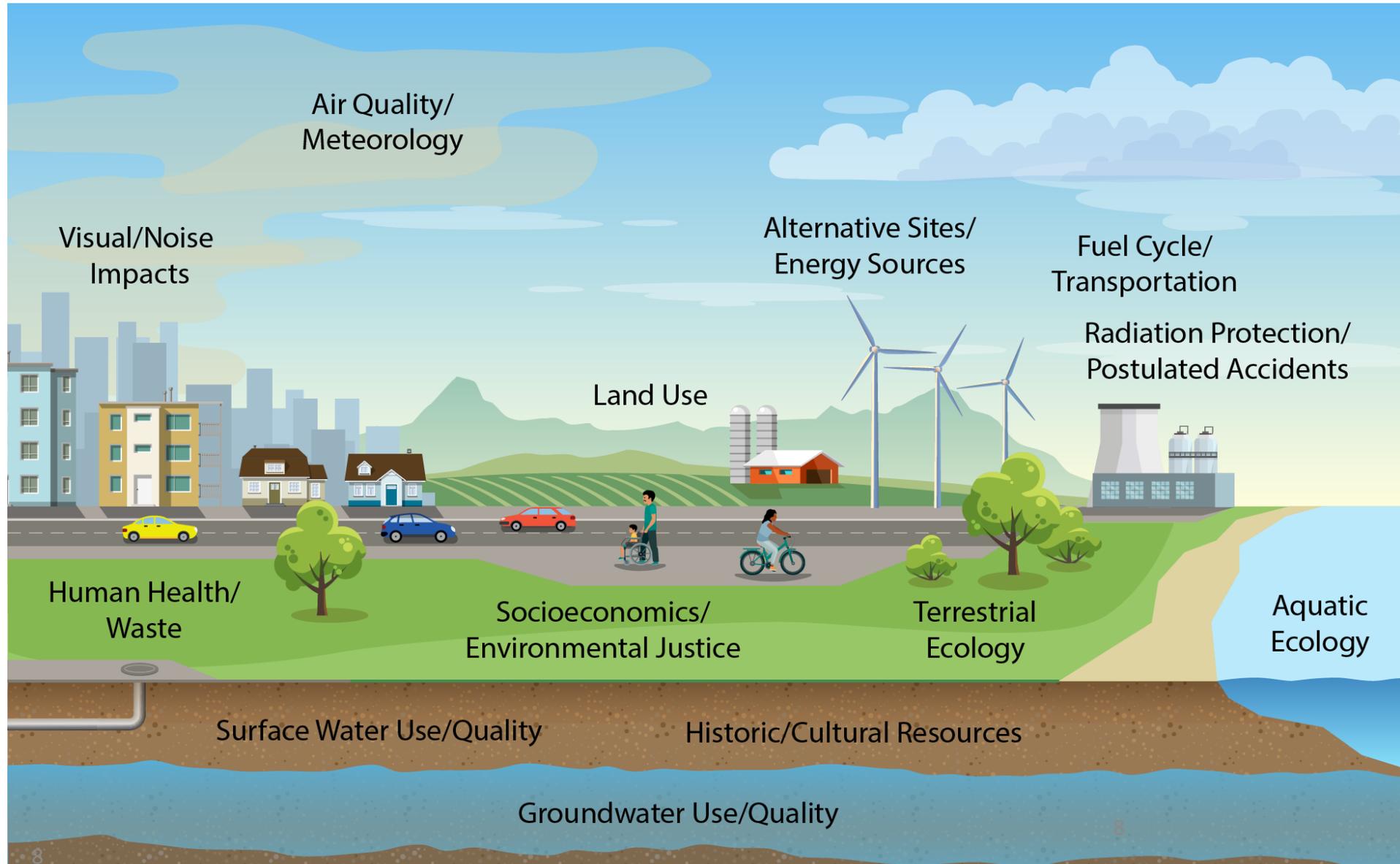
Perry Plant License Renewal

- The license renewal application for the Perry Nuclear Power Plant Unit 1 (Perry Plant) was submitted on July 3, 2023
- The operating license was issued on November 13, 1986, and is set to expire on November 7, 2026
- If a license renewal is granted, it will be for an additional 20 years

Environmental Review

- Generic Environmental Impact Statement (GEIS)
 - Addresses Category 1 environmental issues common to all plants (or a distinct subset of plants) during the license renewal term
- Environmental Impact Statement
 - Neither the applicant nor the NRC identified information that is both new and significant related to Category 1 issues that would call into question the conclusions in the LR GEIS
 - Addresses Category 2 environmental issues during the license renewal term on a site-specific basis

Environmental Review



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 (cont.)

- Federally Listed Species and Critical Habitat (Endangered Species Act)
 - No effect
 - May affect but is not likely to adversely affect
 - May affect and is likely to adversely affect
- Essential Fish Habitat (Magnuson-Stevens Act)
 - No adverse impacts
 - Minimal adverse impacts
 - More than minimal, but less than substantial adverse effects
 - Substantial adverse impact

How Impacts are Defined (cont.)

- Historic and Cultural Resources (National Historic Preservation Act)
 - No adverse effect
 - Adverse effect
- Environmental Justice* (Executive Order 12898)
 - Disproportionally high and adverse human health and environmental effects
 - No disproportionately and adverse human health and environmental effects on minority and low-income populations

* The NRC chooses to address EJ, though not required. There is a pending vote by the Commission on addressing EJ.

Draft EIS Preliminary Findings

Resource Area

- Land Use/Visual Resources
- Air Quality/Noise
- Geologic Environment
- Groundwater/Surface Water Resources
- Terrestrial Resources
- Aquatic Resources
- Socioeconomics
- Transportation
- Human Health
- Postulated Accidents
- Uranium Fuel Cycle
- Waste Management

Impacts

SMALL

Draft EIS Preliminary Findings (cont.)

Resource Area

- Historic and Cultural Resources
- Environmental Justice
- Cumulative Impacts

Impacts

- Would not adversely affect known historic properties
- No disproportionately and adverse human health and environmental effects on minority and low-income populations
- See Draft EIS Section 4.13

Draft EIS Preliminary Findings - Special Status Species and Habitats

- May affect but is not likely to adversely affect
 - Northern long-eared bat
 - Indiana bat
 - Tricolored bat
 - Piping plover
 - Red knot
 - Monarch butterfly
- No effect
 - on designated critical habitats or essential fish habitat or National Marine Sanctuaries (do not occur within the area)

Alternatives

- No new and significant information identified regarding the following alternatives
- Alternative energy sources (power replacement)
 - Natural Gas-Fired Combined-Cycle
 - Renewables Natural Gas Combination
- No-action alternative

Preliminary Recommendation

The adverse environmental impacts of subsequent license renewal for Perry Plant for an additional 20 years beyond the current expiration date are not so great that preserving the option of subsequent license renewal for energy-planning decisionmakers would be unreasonable

Environmental Review Milestones

Milestone	Date
Draft EIS Published	August 30, 2024
Comment Period Began	September 6, 2024
Draft EIS Virtual Public Meetings	October 1, 2024 October 2, 2024
Draft EIS Comments Due	October 21, 2024
Final EIS	April 2025

Obtaining the Draft EIS

- Printed copy:
 - Perry Public Library
3753 Main St, Perry, OH 44081
- Perry Plant Project Public Website:
<https://www.nrc.gov/reactors/operating/licensing/renewal/applications/perry.html>
- Agencywide Documents Access and Management System (ADAMS):
 - <https://www.nrc.gov/reading-rm/adams.html>
 - Draft EIS accession number: ML24241A256

Additional Information

- Perry Plant Project Public Website: =
<https://www.nrc.gov/reactors/operating/licensing/renewal/applications/perry.html>
 - Perry Plant license renewal application
 - Environmental report
 - Current schedule
 - Project managers associated with Perry Plant
- Perry Plant Correspondence:
 - <https://www.nrc.gov/public-involve/listserver/plants-by-region.html>

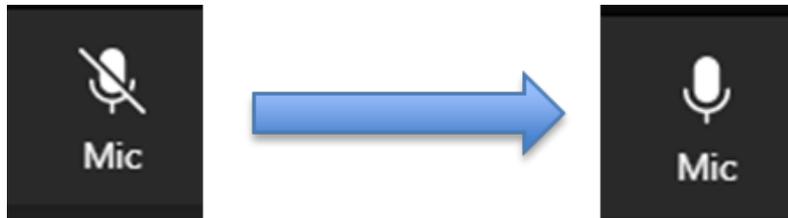
Submitting Comments

- By mail
Office of Administration
Mailstop TWFN-7-A60M
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
- Website
<http://www.regulations.gov>, use Docket ID NRC-2023-0136
- Email: PerryEnvironmental@nrc.gov

Comments should be submitted by **October 21, 2024**

PUBLIC PARTICIPATION

- Raise your hand
 - MS Teams: “Raise my hand” button
 - On the phone: press “*5”
- You’ll still need to unmute
 - MS Teams: Unmute button
 - On the phone: press “*6”



Draft EIS Participant Contact Information

- Meeting Summary
 - Meeting participant list
 - NRC presentation
 - Transcript of the meeting
- Final EIS
 - To receive the final EIS, email contact information to Lance.Rakovan@NRC.gov