

Tribal Information Meeting on the TerraPower, LLC Construction Permit Application for Kemmerer Power Station Unit 1



The meeting will begin shortly.

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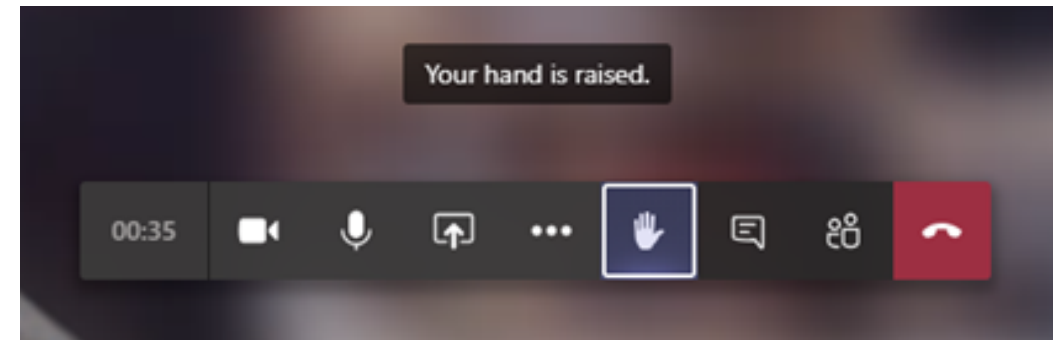
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**Attendee cameras and microphones are enabled,
please ensure you are muted unless you are speaking,
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Participating in this Teams Meeting

- Raise your hand
 - MS Teams: “Raise my hand” button
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- *Cameras are also enabled, so feel free to share your camera (video) if you are comfortable.*

Tribal Information Meeting: TerraPower, LLC Kemmerer Unit 1 Construction Permit Application

Christopher Regan, Division Director, NRC

Michelle Rome, Branch Chief, NRC

Sarah Lopas, Senior Environmental Project Manager, NRC

Beau Goldstein, Environmental Project Manager, NRC

NRC Mission and What We Do

- The NRC's mission is to protect public health and safety, promote the common defense and security, and protect the environment.
- For the proposed Kemmerer Unit 1 project, the NRC will—
 - Determine whether it's safe to build and operate a proposed nuclear reactor at the Kemmerer site.
 - Evaluate the environmental impacts of building and operating a nuclear reactor at the Kemmerer site.
 - If licensed, inspect the construction and safe operation of the nuclear reactor.
- The NRC also licenses reactor control room operators.

Meeting Goals

- Provide an overview of the proposed Kemmerer Power Station Unit 1 (KU1)
- Provide an overview of the project roles for the U.S. Nuclear Regulatory Commission (NRC) and U.S. Department of Energy (DOE)
- Describe the NRC's environmental review and National Historical Preservation Act Section 106 processes
- Discuss how the NRC can best engage Tribes and obtain input
- Answer your questions, listen to your feedback

MEETING AGENDA

Welcome and Introductions	Christopher Regan , Director, Division of Rulemaking, Environmental, and Financial Support, NRC	12:00 to 12:20 p.m. EDT
Meeting Goals	Michelle Rome , Branch Chief, Environmental Technical Review Branch 1, NRC U.S. Department of Energy Patricia Vokoun , Lead Environmental Project Manager, Environmental Projects Branch 3, NRC	12:20 to 12:45 p.m. EDT
NRC's Tribal Policy Statement		
NRC and DOE Project Roles		
Overview of the Proposed Kemmerer Unit 1 Power Station		
NRC's Environmental Review Process		
NRC's NHPA Section 106 Consultation Process		
Discussion on Tribal Interests, Concerns, and Engagement	Sarah Lopas , Senior Environmental Project Manager, Environmental Technical Review Branch 1, NRC	12:45 to 2:00 p.m. EDT, as needed
Project Resources, Contacts, and Next Steps		

NRC's Tribal Policy Statement

The NRC's [Tribal Policy Statement](#) is centered on the following principles:

1. The NRC Recognizes the Federal Trust Relationship With and Will Uphold its Trust Responsibility to Indian Tribes.
2. The NRC Recognizes and Is Committed to a Government-to Government Relationship with Indian Tribes.
3. The NRC Will Conduct Outreach to Indian Tribes.
4. The NRC Will Engage in Timely Consultation.
5. The NRC Will Coordinate with Other Federal Agencies.
6. The NRC Will Encourage Participation by State-Recognized Tribes.

Kemmerer Unit 1 Construction Permit Review – Lead and Cooperating Agencies



- The NRC leads the National Environmental Policy Act (NEPA) analysis and National Historic Preservation Act (NHPA) Section 106 consultation for the proposed Kemmerer Unit 1 construction permit.



- TerraPower requested financial assistance for construction of Kemmerer Unit 1 through a cost-share partnership with DOE. Because Federal financial assistance is considered a major federal action, DOE also has NEPA responsibilities and is a cooperating agency for the NRC's construction permit review.

NRC Project Role – Kemmerer Unit 1

- The NRC is reviewing TerraPower's application for a construction permit
 - A Construction Permit is an NRC document that authorizes an applicant to build a nuclear facility
 - An Operating License application and approval is needed before the facility could start up
- The NRC is conducting both a safety review and an environmental review of Kemmerer Unit 1
 - The NRC will lead the National Environmental Policy Act (NEPA) analysis and the National Historic Preservation Act (NHPA) Section 106 consultation for the proposed construction permit.
 - DOE will serve as a cooperating agency to increase the efficiency of both the NEPA and NHPA reviews.

DOE Office of Clean Energy Demonstration

- DOE/OCED mission is to deliver clean energy technology demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.
- DOE/OCED manages DOE's Advanced Reactor Demonstration Program.
- There are currently two advanced reactor demonstration projects in OCED's program—one of which is the TerraPower Sodium Reactor.

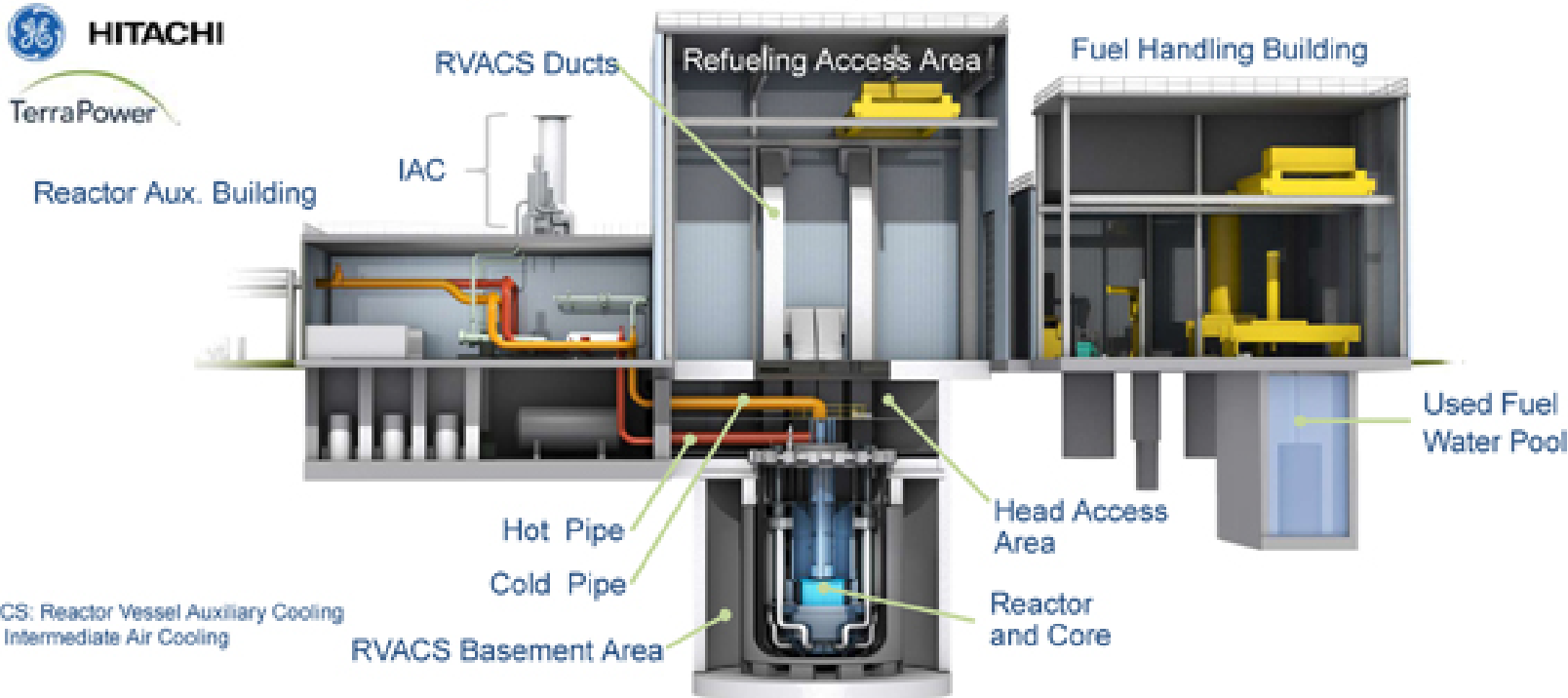


DOE Project Role – Kemmerer Unit 1

- In addition to being a cooperating agency on the NRC's NEPA review for the construction permit application, the DOE is leading review for the following DOE undertakings:
 - Phase 1: Test and Fill Facility
 - Access Road Testing
 - Phase 2: Kemmerer Unit 1 Preconstruction Activities
- DOE Points of Contact:
 - Amy Shanahan, Cultural Resources Specialist
 - Amy.Shanahan@hq.doe.gov and (240) 937-9605
 - Gretchen Applegate, NEPA Specialist
 - Gretchen.Applegate@hq.doe.gov and (240) 252-0399

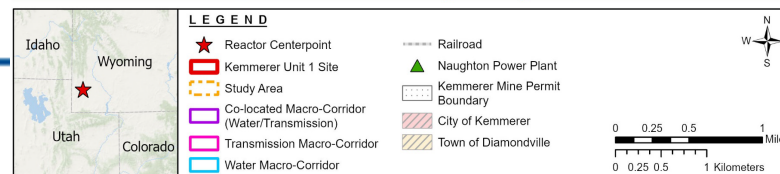
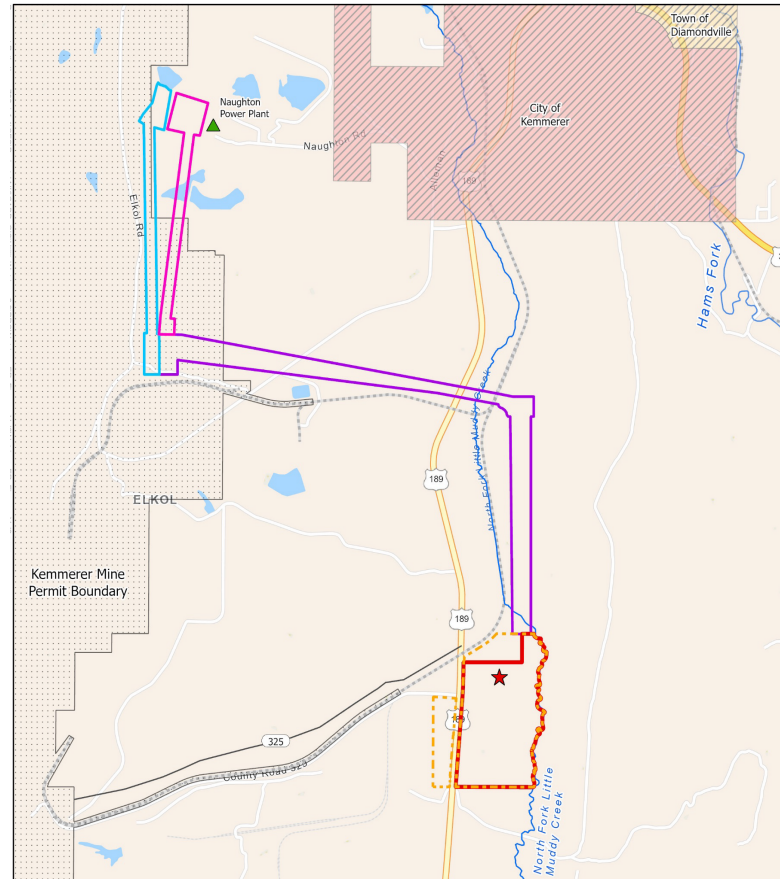
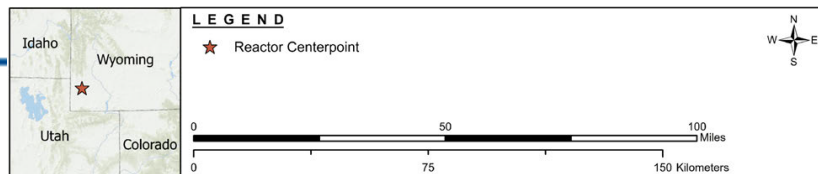
Kemmerer Power Station Unit 1

Reactor Building



- Application for a construction permit for an advanced reactor (pool-type sodium fast reactor) submitted on March 28, 2024
- 345 megawatts electric (MWe) with peak output of 500 MWe
- Located in Kemmerer, Lincoln County, Wyoming

Proposed Kemmerer Unit 1 Site

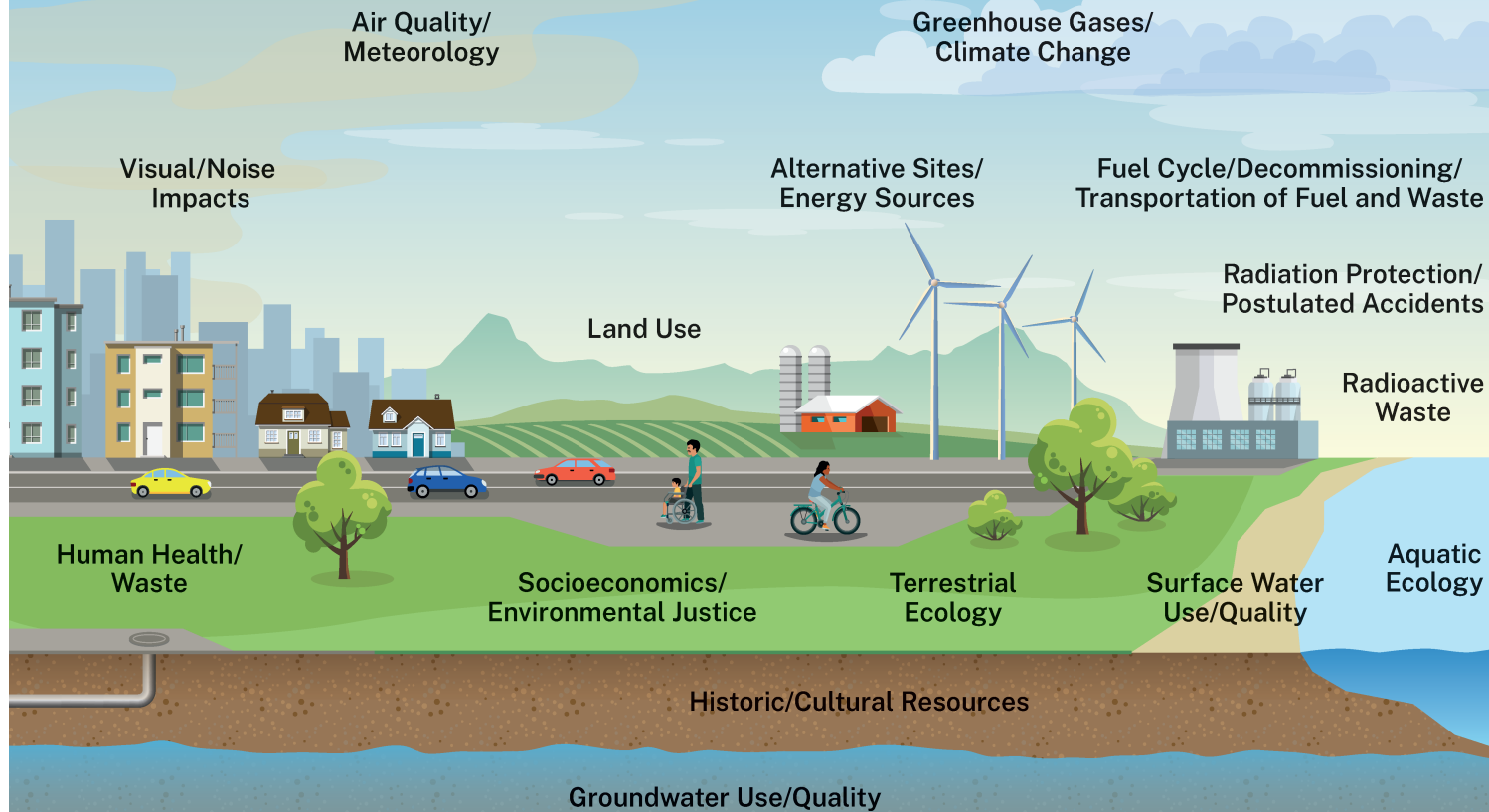


- Property boundary is 334-acres in Lincoln County, Wyoming
- 3 miles south of the City of Kemmerer, and 3.8 miles southeast of the Naughton Power Plant

Kemmerer Unit 1 Construction Permit Environmental Review

- The Kemmerer Unit 1 site comprises about 290 acres (within the 334-acre site boundary).
- Our environmental and NHPA analyses include the construction of two transmission lines approximately 5.7 miles in length and a water supply pipeline approximately 6 miles in length.
- The NRC has defined the direct and indirect area of potential effects for the cultural resources review as the site and its immediate environs, and the proposed transmission and water supply lines, which may be directly or indirectly impacted by land-disturbing and building activities associated with the construction and operation of the proposed facility.

Typical Resource Areas Analyzed in NRC NEPA Reviews



NRC NEPA REVIEW PROCESS

Describe the need for the project and the “affected environment” (baseline conditions) for each resource area.

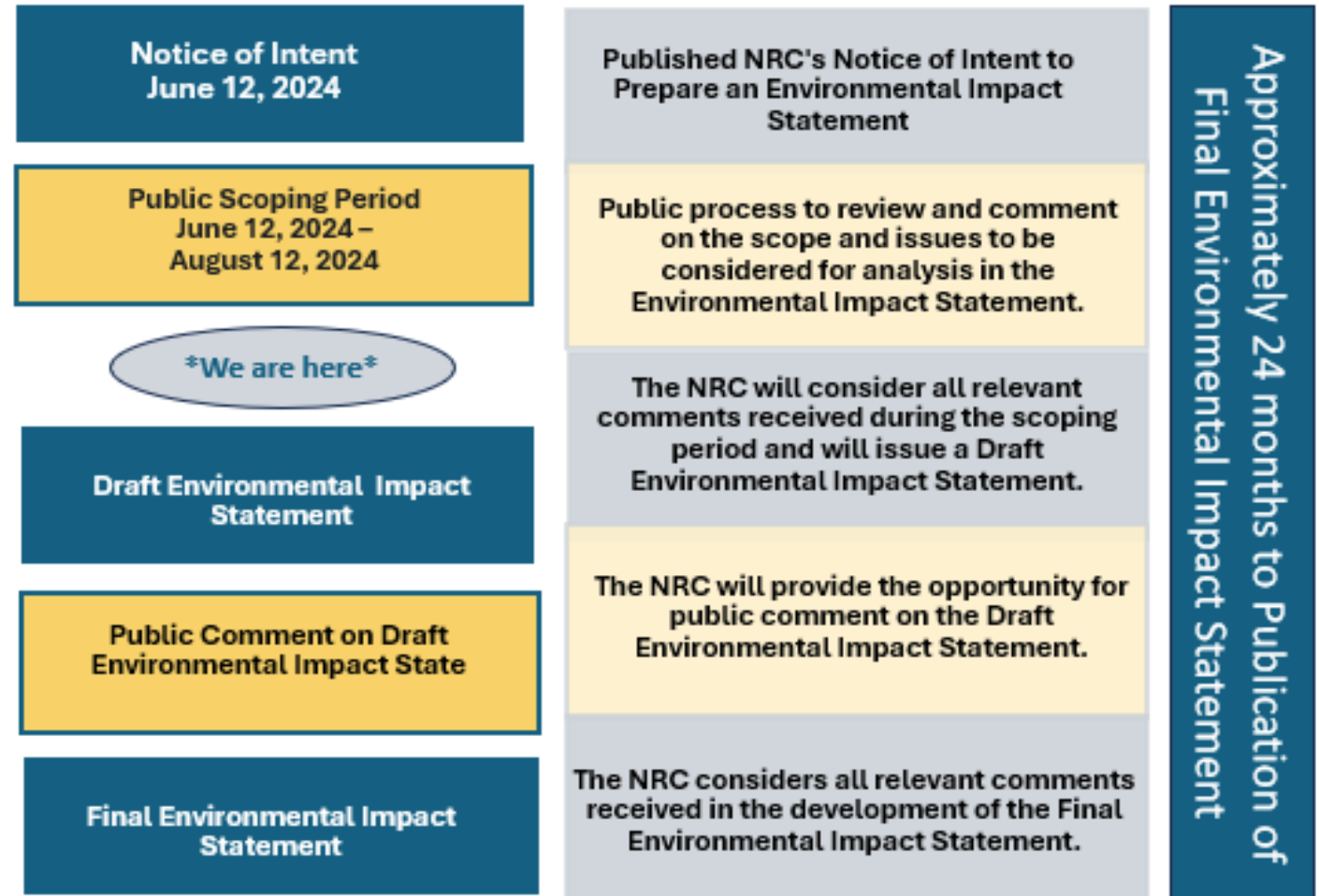
Determine the consequences of the proposed action on resource areas (impact level).

Analyze “cumulative impacts” from past, present, or reasonably foreseeable projects.

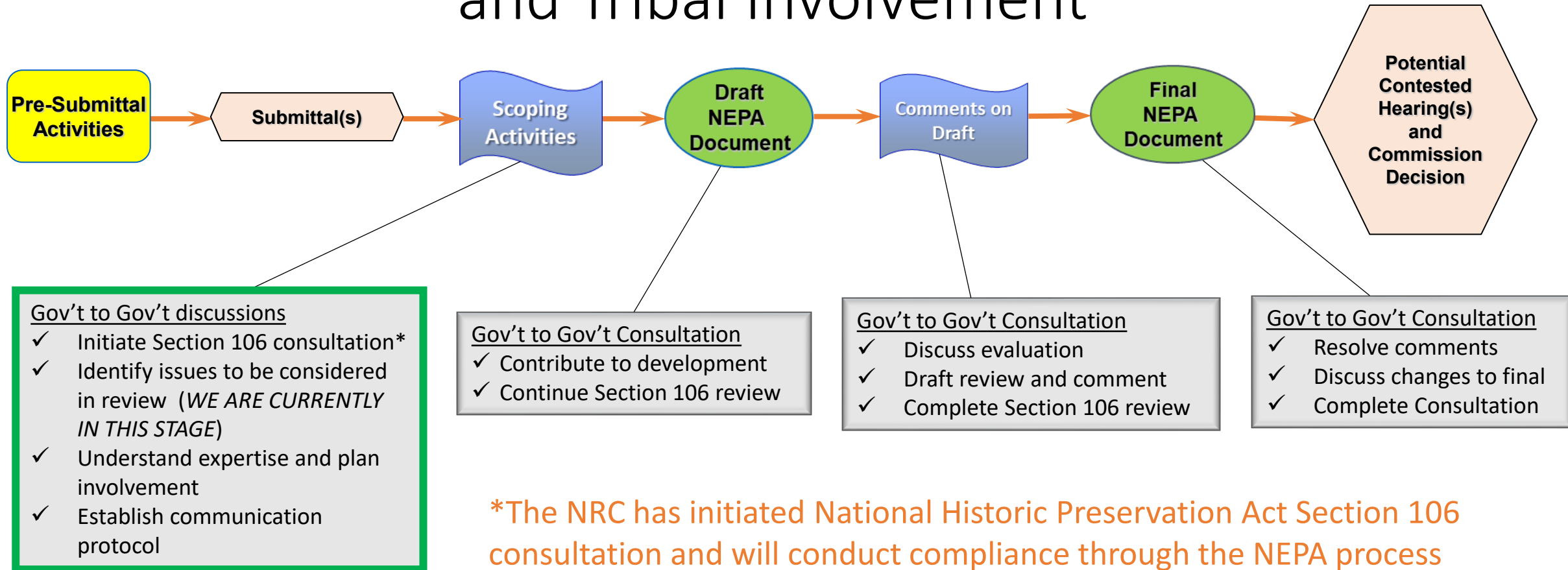
Analyze alternatives to the proposed action.

Environmental Review Schedule

- Environmental scoping comment period ended on August 12, 2024
- Draft Environmental Impact Statement (EIS) – Expected issuance July 2025
 - 45-day public comment period
 - A copy of the Draft EIS will be made available to all Federally recognized Tribes for review and comment.
- Final EIS – Expected issuance May 2026
 - A copy of the Final EIS will be made available to all Federally recognized tribes.



NRC's Environmental Review Process and Tribal Involvement



*The NRC has initiated National Historic Preservation Act Section 106 consultation and will conduct compliance through the NEPA process (per 36 CFR 800.8(c))

How Can NRC and DOE Meaningfully Engage & Consult?

- Is there interest in sharing Tribal expertise and/or Tribal participation during evaluations of impacts to resource areas?
- Are there specific issues of interest or concern to the Tribes that should be considered in the environmental review?
- What ways would the Tribes like to participate in the NEPA and NHPA review process (draft review, comments, etc.)?
- What else do the Tribes think we need to know?
- What protocols, points of contact, method for and frequency of communication are preferred (regular virtual meetings, in-person meetings, emails, project website)?
- Is there anyone that is not here today, that we should talk to?

NRC Resources

- NRC's Kemmerer Unit 1 Website: <https://www.nrc.gov/reactors/new-reactors/advanced/who-were-working-with/applicant-projects/terrapower.html>
- Information slides presented at the July 2024 environmental scoping meeting: <https://www.nrc.gov/docs/ML2422/ML24222A421.pdf>
- TerraPower's Environmental Report for the Proposed Kemmerer Unit 1: <https://www.nrc.gov/docs/ML2408/ML24088A072.pdf>
- NRC's Tribal Policy Statement: [https://tribal.nrc.gov/includes/Final TPS FRN Jan 9 2017 82 FR 2402.pdf](https://tribal.nrc.gov/includes/Final_TPS_FRN_Jan_9_2017_82_FR_2402.pdf)
- NRC's Tribal Protocol Manual: <https://www.nrc.gov/about-nrc/state-tribal/tpm.html>

NRC Environmental Review Points of Contact

- U.S. Nuclear Regulatory Commission
 - Beau Goldstein, NHPA Section 106 Environmental Project Manager
 - Beau.Goldstein@nrc.gov or (301) 415-1765
 - Sarah Lopas, Senior Environmental Project Manager
 - Sarah.Lopas@nrc.gov or (301) 415-6360
 - Pat Vokoun, NEPA Project Manager for Kemmerer Unit 1
 - Patricia.Vokoun@nrc.gov or (301) 415-3470
 - Dee Morgan, NRC's Tribal Liaison Program Manager
 - Nadiyah.Morgan@nrc.gov or (301) 415-5836