



Combined License Application Review STP Units 3 and 4

**Environmental Panel
November 19, 2015**

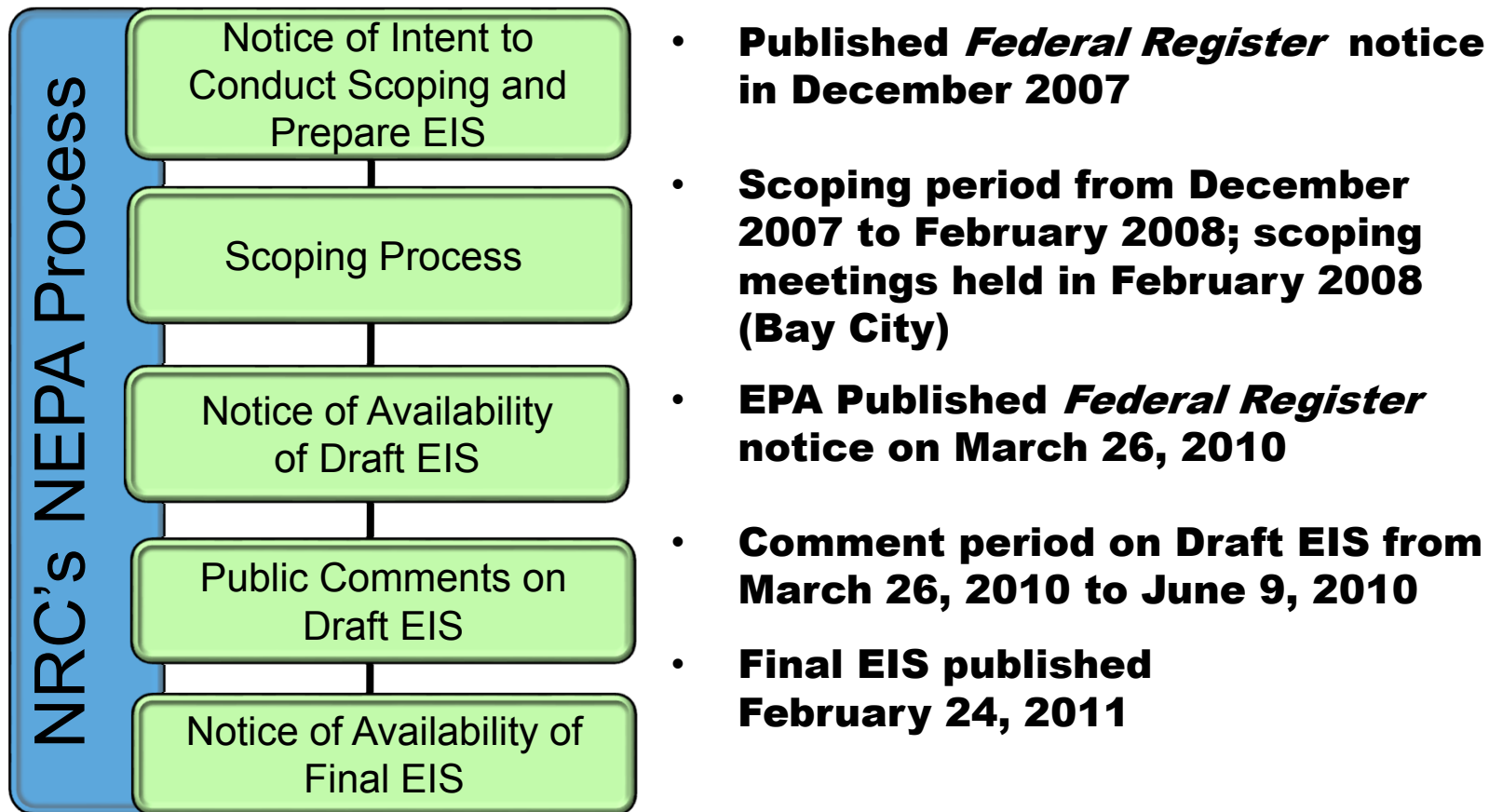
Panelists

- **Patricia Vokoun, Lead Environmental Project Manager**
- **Andrew Kugler, Senior Project Manager**

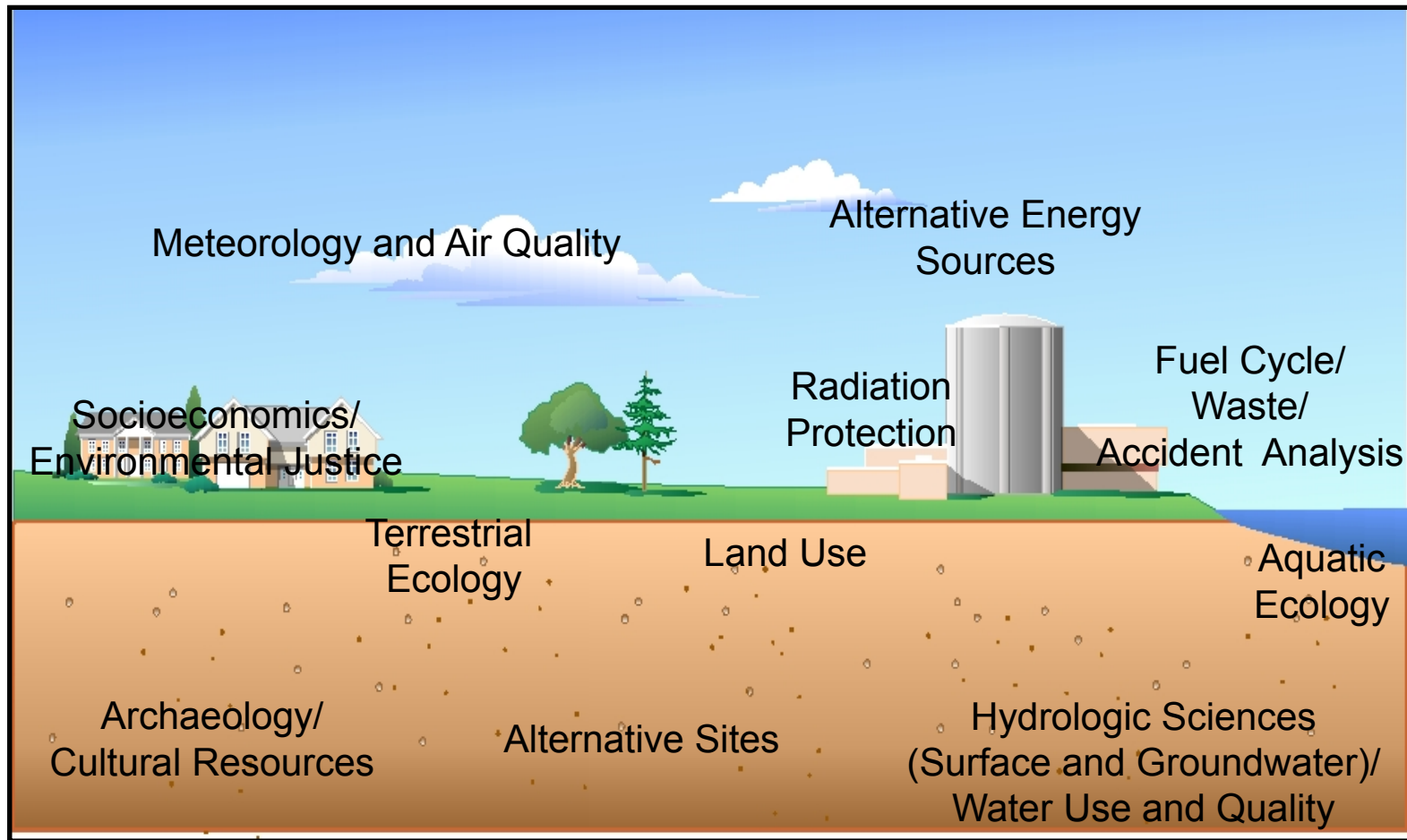
Regulations and Guidance

- **National Environmental Policy Act (NEPA)**
- **Framework for NRC's review:**
 - **10 CFR Part 51**
 - **Environmental Standard Review Plan (NUREG-1555)**
 - **Other guidance**

Review Process & Schedule



Environmental Resource Areas



Source U.S. NRC

How Impacts are Categorized

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

Summary of Impacts – Small Impacts

- **Land Use**
- **Water Resources**
- **Aquatic Ecology**
- **Terrestrial Ecology**
- **Environmental Justice**
- **Air Quality**
- **Accidents**
- **Historic and Cultural Resources**
- **Radiological Health**
- **Non-Radiological Health**
- **Nonradioactive Waste**
- **Fuel Cycle, Transportation, and Decommissioning**
- **Some Socioeconomic areas**
- **Many Cumulative areas**

Summary of Impacts – Small to Moderate Impacts

- **Demography, Infrastructure and Community Services during construction**
- **Many Cumulative areas**
- **Construction Economic Impacts (Beneficial)**

Small to Large Impacts

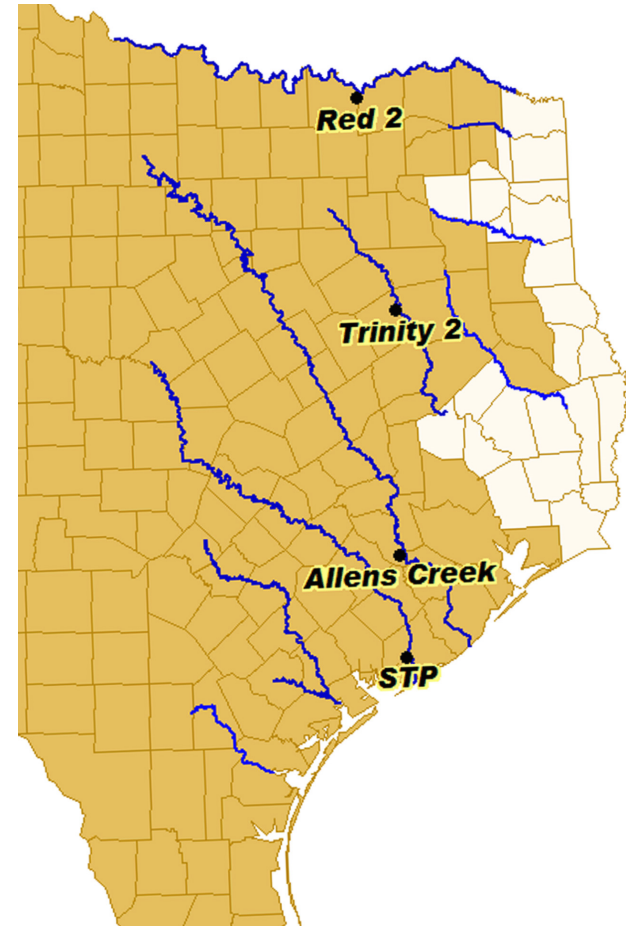
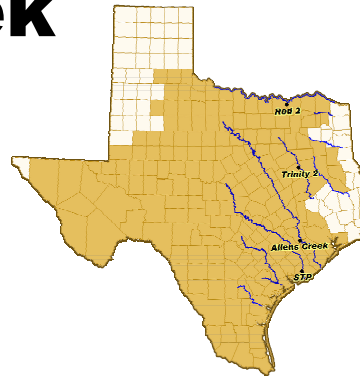
- **Operational and Cumulative Economic Impacts (Beneficial)**

Alternatives

- **The team considered the no-action alternative and alternative energy sources, system designs and sites**
- **Energy Alternatives - None of the feasible baseload alternatives considered were environmentally preferable**
- **Alternative System Designs - No alternative cooling systems were environmentally preferable to the proposed plant design**

Alternative Sites

- **Proposed site is STP**
- **Alternative sites are:**
 - **Allens Creek**
 - **Trinity 2**
 - **Red 2**
- **None were environmentally preferable**



New Information Assessment

- **Staff followed internal guidance to determine if a supplement to the EIS should be prepared as required by 10 CFR 51.92**
- **Conducted audit and analyses**
- **No substantial changes or significant new information was identified that would call for a supplement**

Conclusions

- **Environmental impacts for most resource areas would be SMALL**
- **None of the reasonable alternative energy sources, sites, or system designs were environmentally preferable**
- **New information does not affect these conclusions**

Recommendation

**The staff's assessments
documented in the final EIS
support a recommendation to the
Commission to issue the licenses**