



NRC-012

# **Combined License Application Review North Anna Unit 3**

## **Environmental Panel March 23, 2017**

# Panelists

- **Tamsen Dozier – Environmental Project Manager**
- **Andrew Kugler – Senior Project Manager**

# **Presentation Overview**

- **Overview of the ESP EIS**
- **Process for the COL SEIS and conclusions**
- **Process for ensuring the continued validity of the impact evaluations presented in the COL SEIS**

# **Role of the ESP EIS**

- **Used the plant parameter envelope (PPE) approach**
- **Prepared based on rules in effect prior to 2007 LWA rulemaking**
- **Some issues were deferred or unresolved**

# Conclusions in the ESP EIS

- **Construction**
  - **SMALL impacts for most resources**
  - **SMALL to MODERATE adverse impacts for transportation, recreation, housing, education**
  - **SMALL to MODERATE beneficial impacts for the economy and taxes**

# Conclusions in the ESP EIS

- **Operation**

- **SMALL impacts for most resources, MODERATE water use impacts in drought years**
- **SMALL to MODERATE adverse impacts for aesthetics/recreation**
- **SMALL to MODERATE beneficial impacts for the economy, SMALL to LARGE for taxes**

# **Deferred or Unresolved Issues**

- **Need for power**
- **Energy alternatives**
- **Water quality from operations**
- **Chronic effects of EMF**
- **System design alternatives**
- **Accidents and SAMAs**
- **Fuel cycle, transportation and decommissioning**

# **ESP EIS Conclusions**

- **No obviously superior site**
- **ESP authorized certain construction activities**



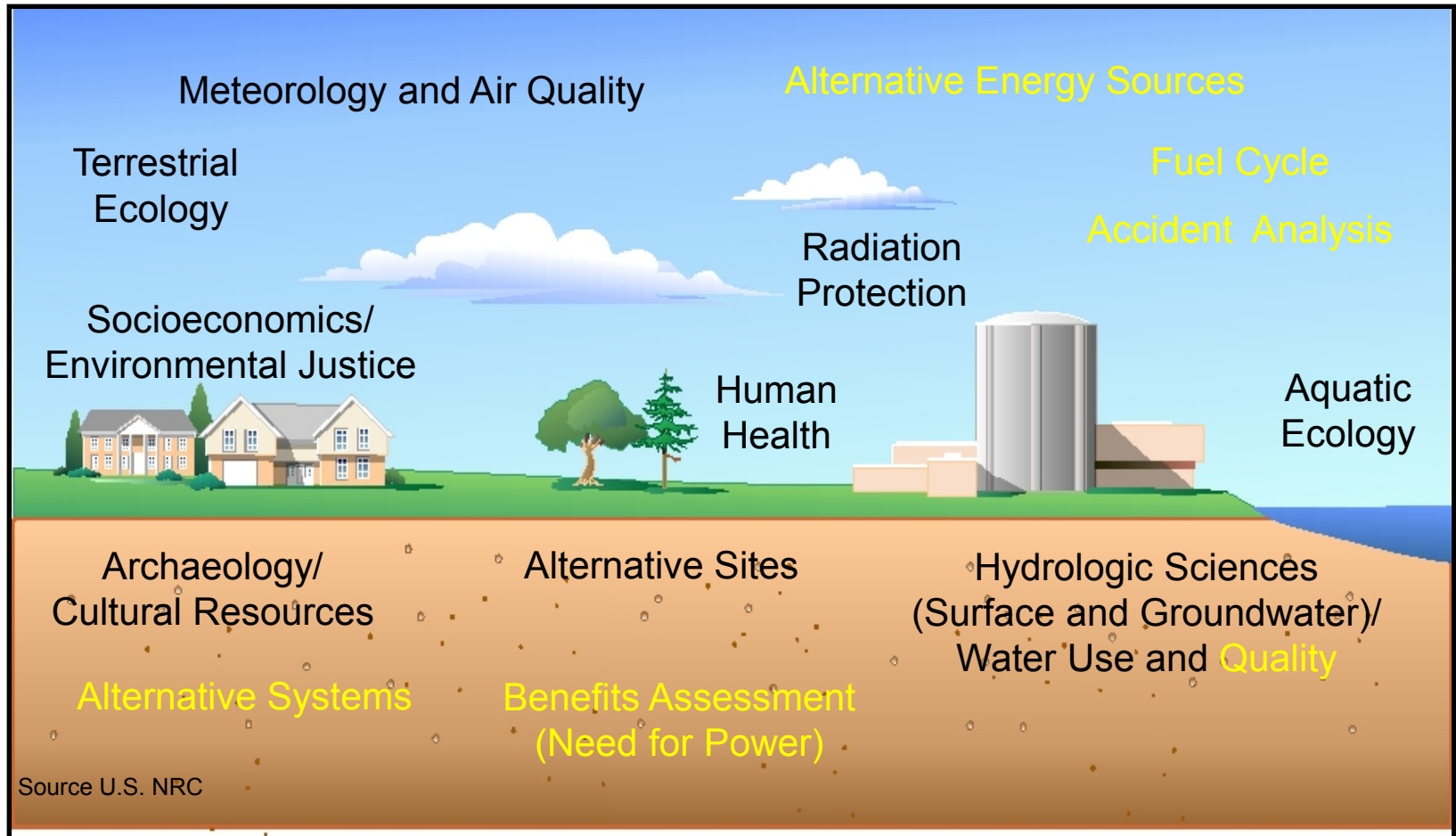
# **Review Process for COL SEIS**

- **Focused scoping process**
- **Audit (including evaluation of applicant's process for identifying new and significant information)**
- **RAIs and staff's independent analyses**
- **Interactions with public and with governmental agencies**

# **Review Process for COL SEIS**

- **New issues evaluated**
  - **Deferred / unresolved from ESP**
  - **New project elements (T-lines; additional property for construction activities; transport of large components)**
- **No consideration of alternative sites**

# Review Process for COL SEIS



# **Review Process for COL SEIS**

- **Draft COL SEIS issued – Dec 2008**
  - **Comment period ended – Mar 2009**
  - **Public meeting – Feb 2009**
- **Final COL SEIS issued – Mar 2010**

# Post COL SEIS

- **Staff followed internal guidance to determine if a supplement to the COL SEIS should be prepared as required by 10 CFR 51.92**
- **Supplement planned for change in reactor design - withdrawn due to Dominion's decision to revert to the ESBWR**

# **Post COL SEIS**

- **Process for determining whether a supplement to an EIS is warranted**
  - **Identification of new information**
  - **Significance determination (seriously different picture of the environment)**
  - **Determination as to whether supplement is warranted**

# **Post COL SEIS**

- **Identification and evaluation of new information after COL SEIS**
  - **New information led to reinitiation of consultations under ESA**
  - **Audit of applicant's process to identify new information**
  - **Determination that COL SEIS impact evaluations remain valid**

# Summary

- **Environmental impacts for most resource areas would be SMALL and no alternative was considered environmentally preferable**
- **New information does not affect these conclusions**
- **The staff's assessments support a recommendation to the Commission to issue the license.**



# Acronyms

- **COL SEIS – Supplemental Environmental Impact Statement prepared for the COL**
- **EMF – Electromagnetic Fields**
- **ESA – Endangered Species Act**
- **ESBWR – Economic Simplified Boiling Water Reactor**

# Acronyms

- **ESP – Early Site Permit**
- **ESP EIS – Environmental Impact Statement prepared for the ESP**
- **LWA – Limited Work Authorization**
- **PPE – Plant Parameter Envelop**
- **RAI – Request for Additional Information**