

# **RIC 2003**

## **New Reactors /Advanced Reactors Session T8**

---

### **EST – The Next Step**

**Ronaldo V. Jenkins**

**Senior Project Manager**

**New Reactor Licensing Project Office/ NRR**

**April 17, 2003**



# What is an Early Site Permit?

---

An NRC decision that ensures that the proposed site is suitable for construction and operation of a nuclear power plant or plants

# Why Does an Applicant Want an Early Site Permit?

---

- Allows an applicant to “bank” a site for up to 20 years
- Reduces licensing uncertainty
- Resolves siting issues before construction

# How Will the NRC Carry Out its Role?

---

- Review all information objectively
- Make informed decisions based on the facts and in compliance with Federal regulations
- Maintain an open public process

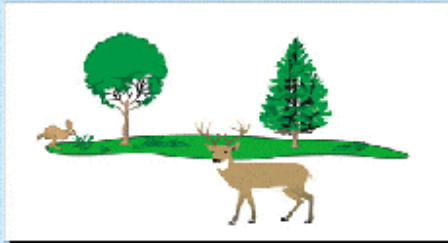
# Accomplishments to Date

---

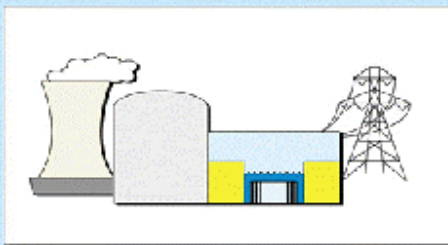
- Issued ESP Review Standard for interim use and comment
- Conducted Local Public Meetings and Site Visits
- Provided staff responses to generic issue resolution letters from NEI within 6 weeks of receipt

# Combined Licenses, Early Site Permits, and Standard Design Certifications

Early Site Permit\*

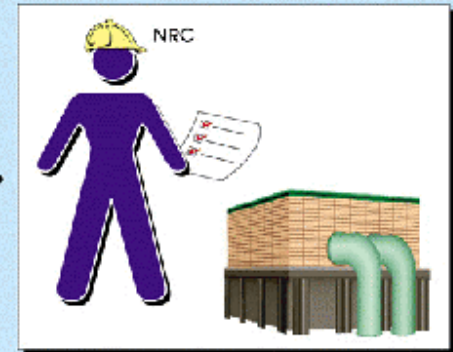


Standard Design Certification\*



Combined License Review and Hearing

Verification of Inspection, Tests, Analyses, and Acceptance Criteria



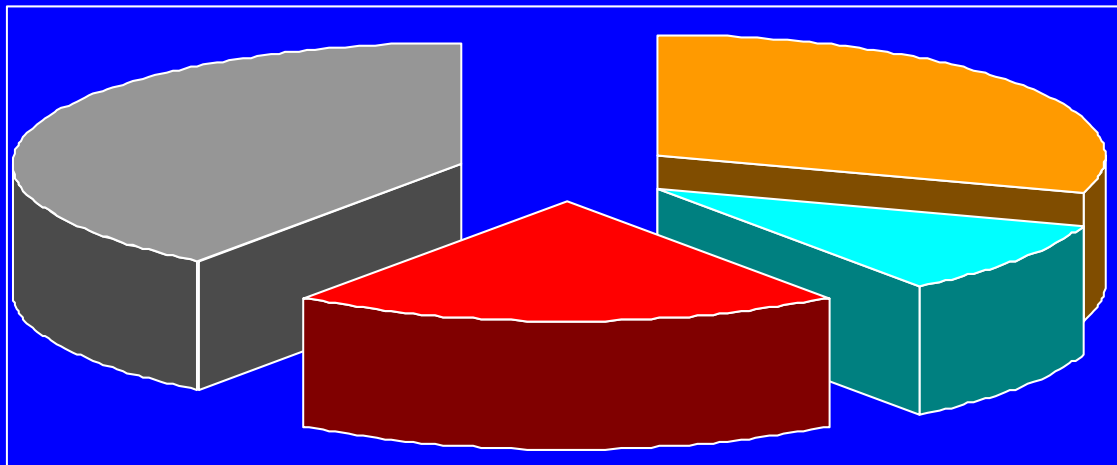
Reactor Operation



\* or equivalent process

# ESP Review Scope

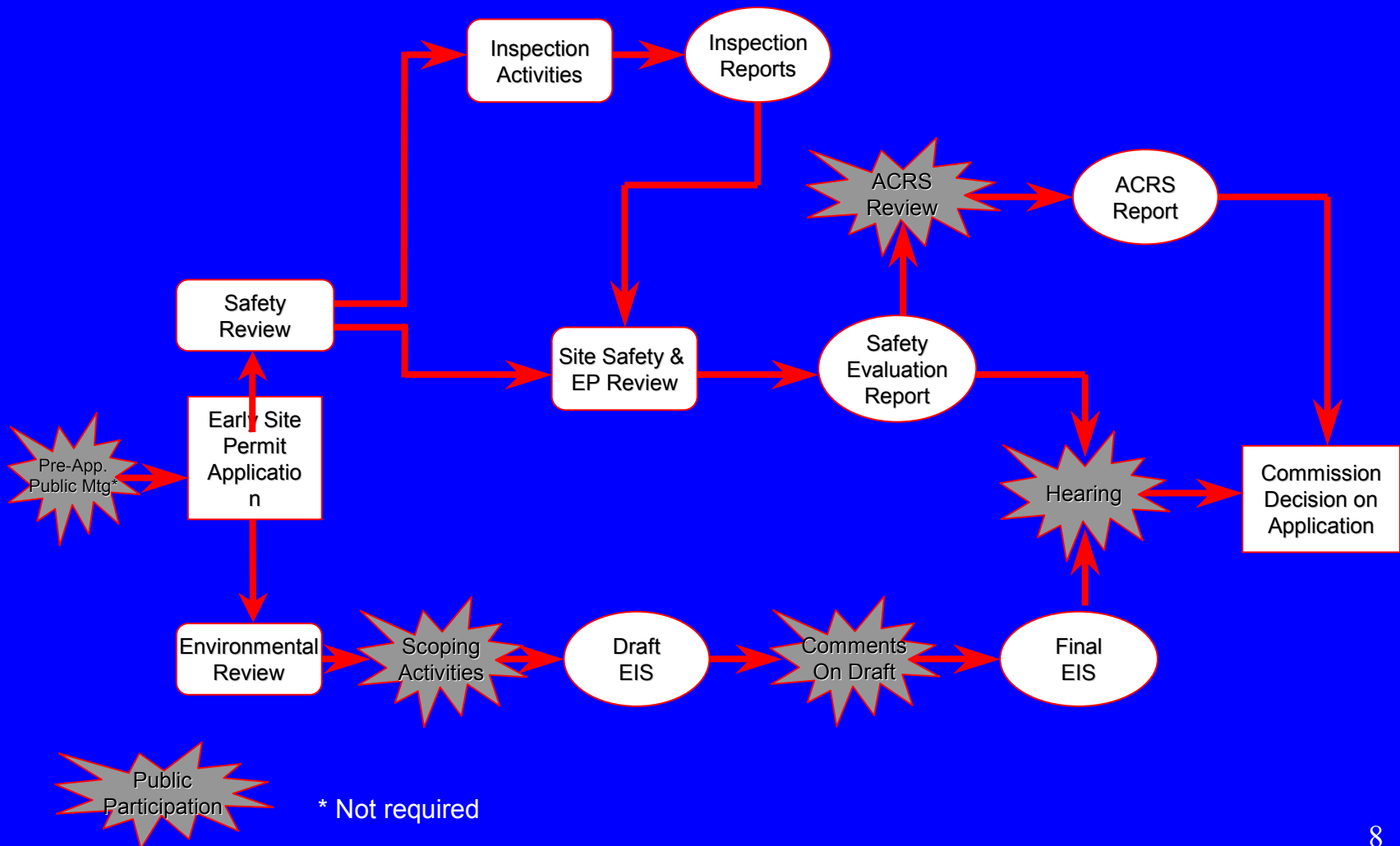
---



- \*Site Safety(SS)
- Radiological SS
- Emerg Prep
- Environmental

\*excludes radiological

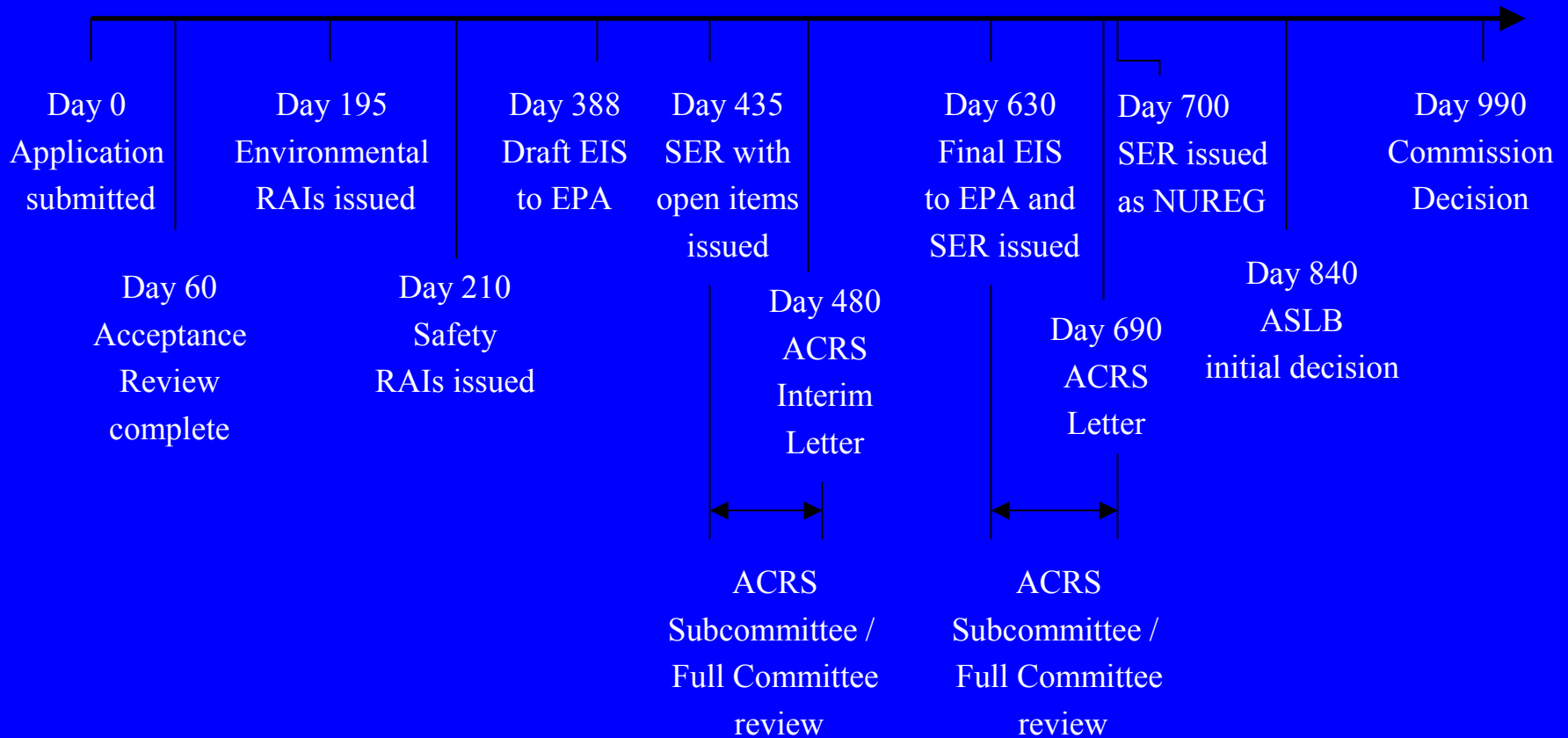
# Early Site Permit Review Process







# 33 months receipt to Commission decision

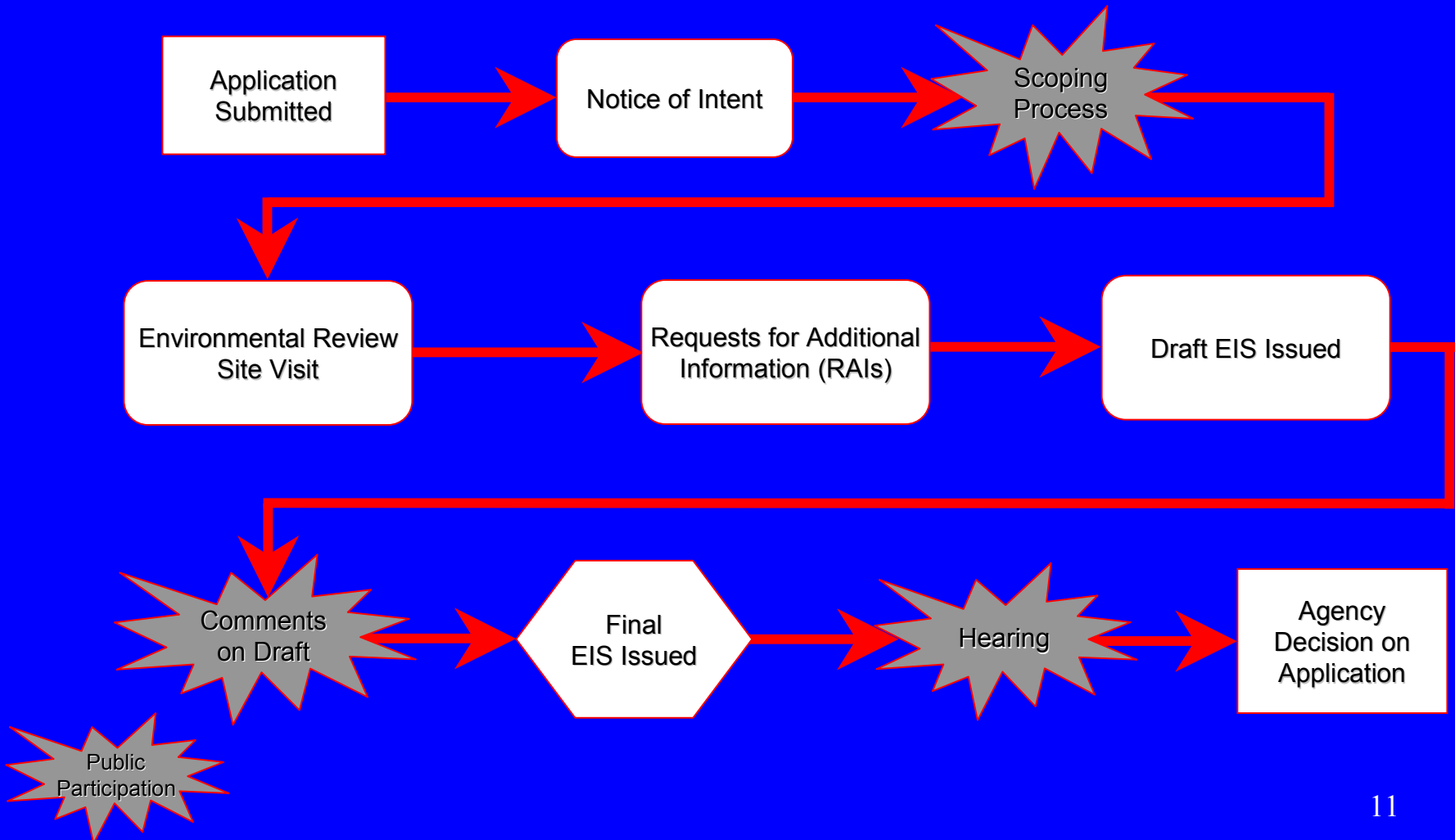


# National Environmental Policy Act

---

- NEPA requires Federal agencies to use a systematic approach to consider environmental impacts
- An environmental impact statement (EIS) is required for major Federal actions significantly affecting the quality of the human environment
- Issuing early site permit is considered a major Federal action

# Environmental Review Process



# Site Safety and Emergency Preparedness Review Process

---

- Site Safety Review

- Site visit

- Layout and characteristics

- Data gathering

- Application and other related information

# Site Safety and Emergency Preparedness Review Process - Continued

---

- Site Safety Review
  - Seismology
  - Geology
  - Hydrology
  - Meteorology
  - Geography
  - Demography (population distribution)
  - Site hazards evaluation