

RIC 2003

New Reactors /Advanced Reactors Session T8

EST – The Next Step

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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?

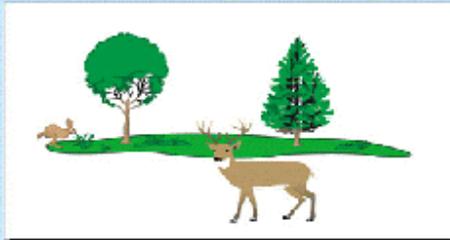
- Review all information objectively
- Make informed decisions based on the facts and in compliance with Federal regulations
- Maintain an open public process

Accomplishments to Date

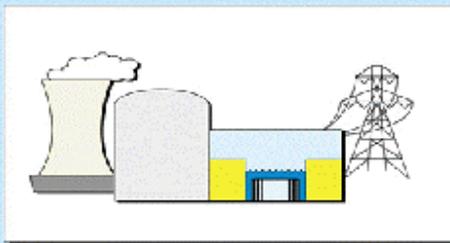
- Issued ESP Review Standard for interim use and comment
- Conducted Local Public Meetings and Site Visits
- Provided staff responses to generic issue resolution letters from NEI within 6 weeks of receipt

Combined Licenses, Early Site Permits, and Standard Design Certifications

Early Site Permit*

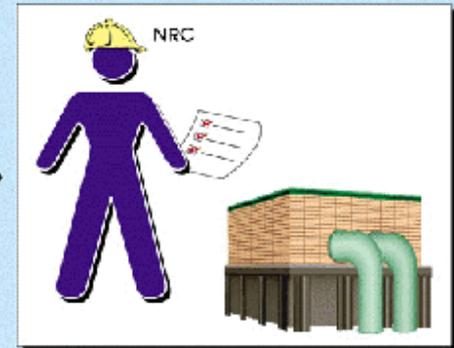


Standard Design Certification*



Combined License Review and Hearing

Verification of Inspection, Tests, Analyses, and Acceptance Criteria

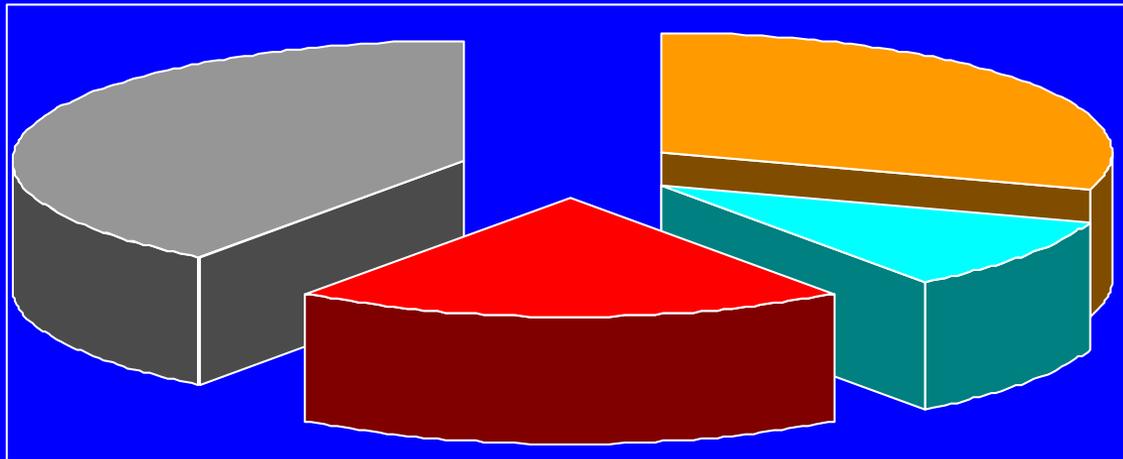


Reactor Operation



* or equivalent process

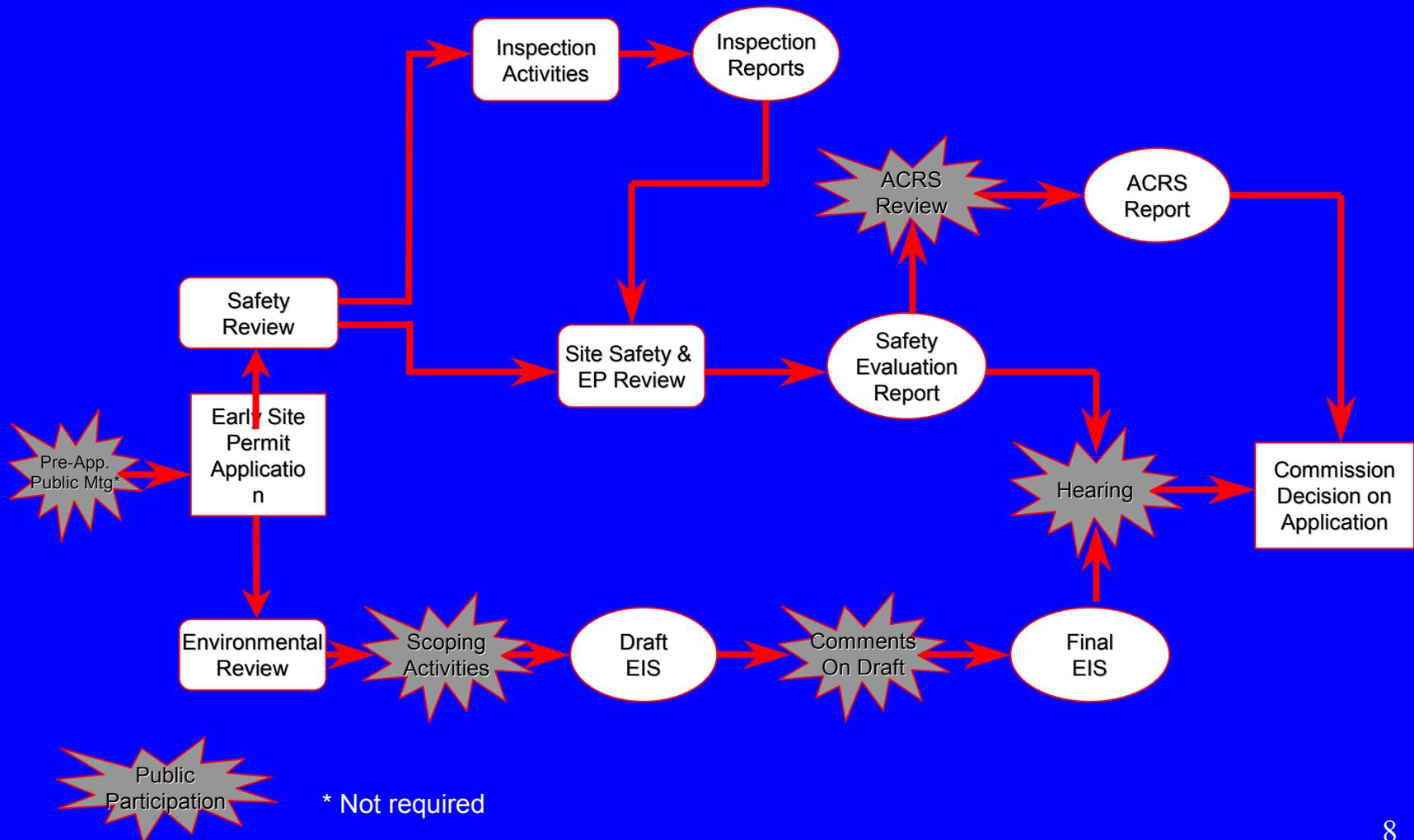
ESP Review Scope



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

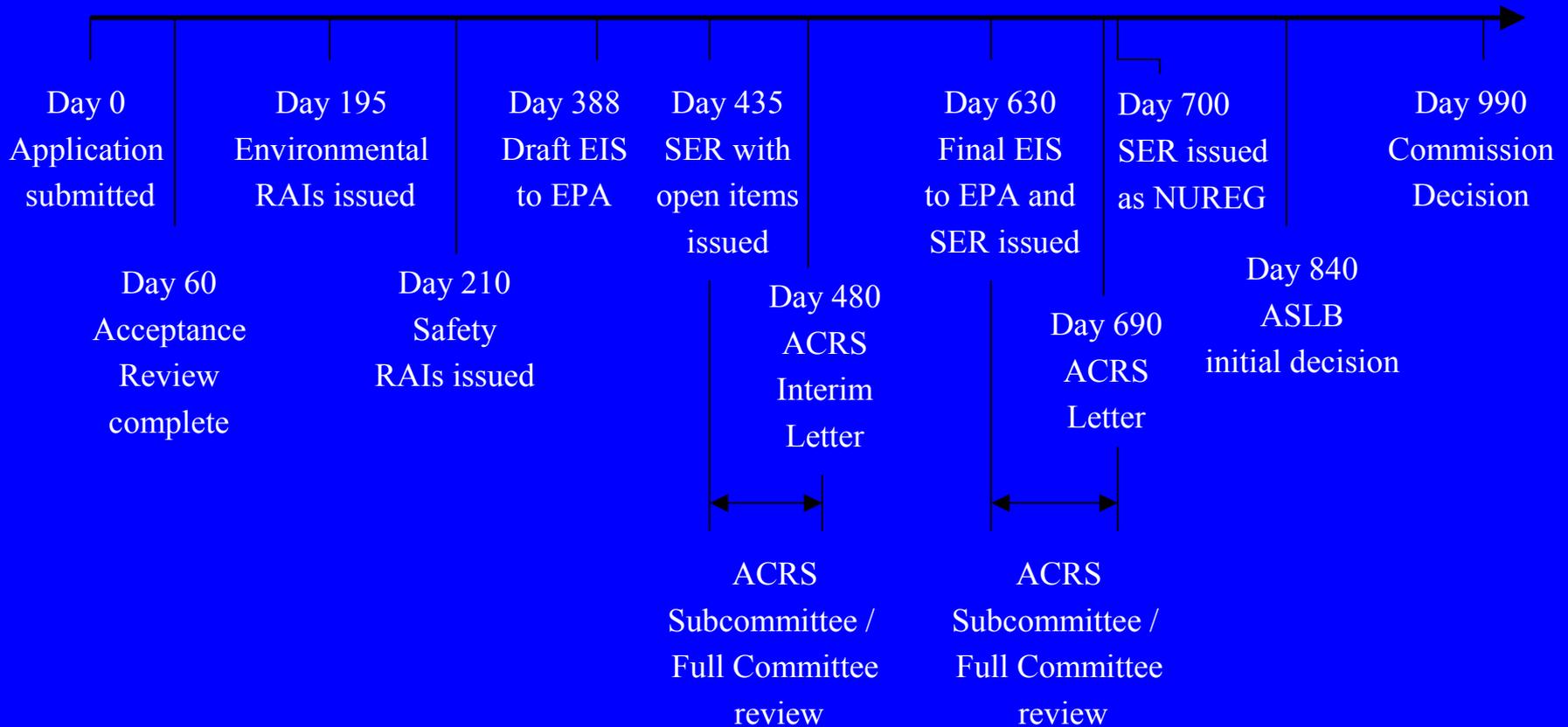
*excludes radiological

Early Site Permit Review Process





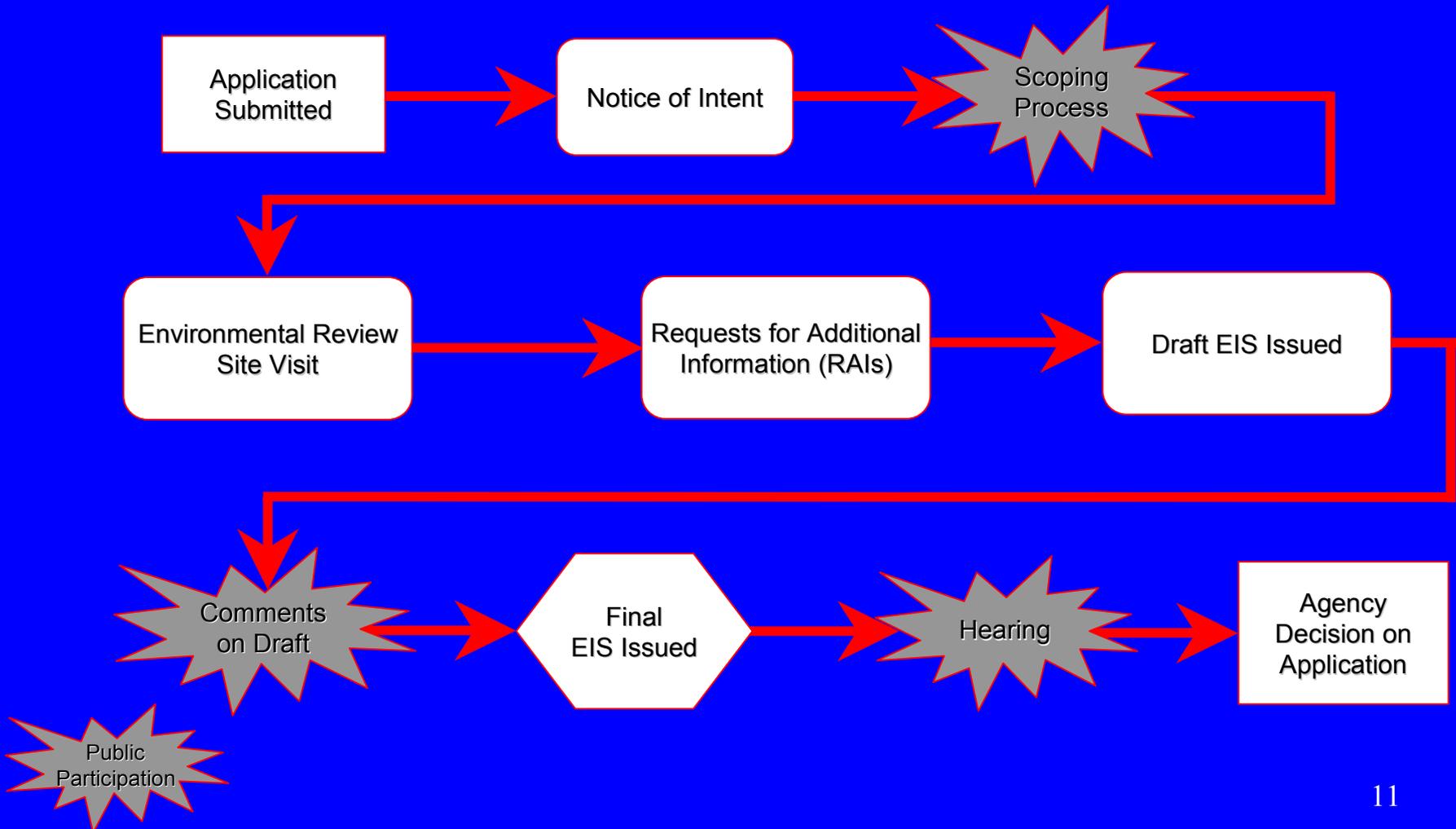
33 months receipt to Commission decision



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