U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Public Outreach Meeting
Bellefonte Nuclear Plant
Combined License Application

Thomas Bergman, Deputy Director
Licensing Operations
Division of New Reactor Licensing

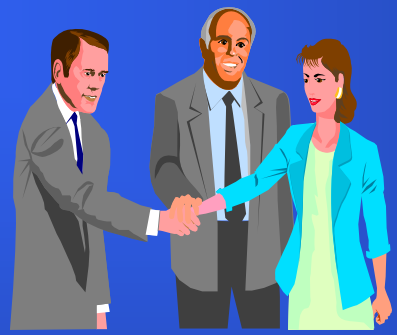
Purposes of this meeting

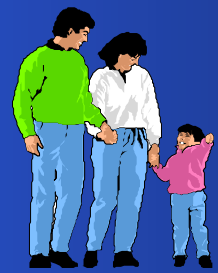
- Talk with you about combined license that may eventually authorize construction and operation of a new nuclear power plant
- Explain what the NRC does during the review of a combined license application
- Describe how you can participate in the regulatory process

Nuclear Regulatory Commission

- Mission: to protect the public health and safety, promote the common defense and security, and protect the environment
- Independent Agency
  - Five Commissioners
  - Staff of technical and regulatory experts
- Over 30 years of experience regulating operating reactors and other civilian use of nuclear materials
  - Regulates 104 operating reactors in the U.S.
  - Administers Agreement State Program. Alabama regulates the possession and use of certain nuclear materials at hospitals and industrial facilities
  - Regulates commercial nuclear fuel production facilities and waste storage facilities in the U.S.

Participants in NRC Licensing Process





NRC

-Commissioners

-Staff members

-Hearing Boards

-Advisory Committee on Reactor Safeguards (ACRS)

Stakeholders

-Residents of the community

-Public interest groups

-Other Federal Agencies

-State entities

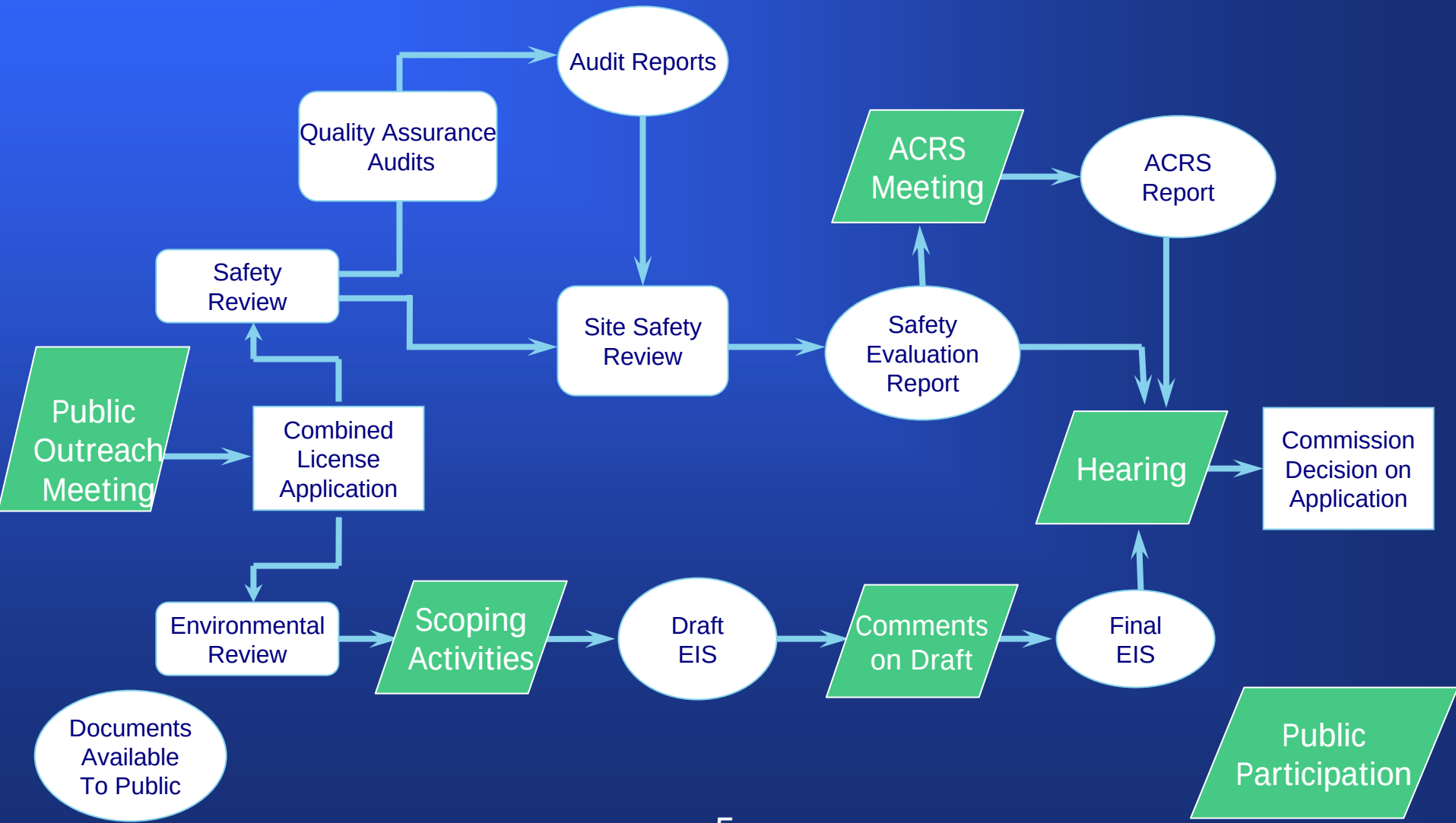
-Local officials

-Tribal officials, and others

License Applicant

Tennessee Valley Authority

Combined License Application Review Process



Combined License Application Review and Construction Inspection

- Billy Gleaves, Senior Project Manager
  - AP1000 Project
- Andrew Kugler, Project Manager
  - Environmental Review
- Rich Laura, Reactor Systems Engineer
  - Construction Inspection

Combined License

- What: Authorization from the NRC to construct and operate, with conditions, a nuclear power plant at a specific site and in accordance with laws and regulations
- Who: Tennessee Valley Authority (TVA)
- When: TVA plans to submit the application by October 2007.

Combined License Regulatory Process (10 CFR Part 52)

- Has been in place since 1989
  - Reflects lessons learned from licensing and construction of plants in the US in the 60's and 70's
  - Intended, in part, to avoid inefficient use of NRC resources to review design as construction is proceeding
- Safety-focused and efficient process
  - Provides for NRC review of all site, design, and operational issues before granting license
  - Allows the public access to information about the reactor design and site-specific issues early in the licensing process
  - Maintains a predictable and stable regulatory process for all stakeholders
  - Safety benefits should be realized once plants are operating due to more efficient use of resources resulting from increased standardization of reactor designs

What the NRC will review

- Compliance with regulations to ensure adequate protection of public health and safety and common defense and security
  - Design of facility
  - Quality assurance
  - Security plan
  - Emergency preparedness (with the Federal Emergency Management Agency)
  - Operator Training
  - Applicant's process to verify that the nuclear plant will be built as designed and operated in accordance with NRC regulations
- Disclosure of environmental impacts and evaluate alternatives

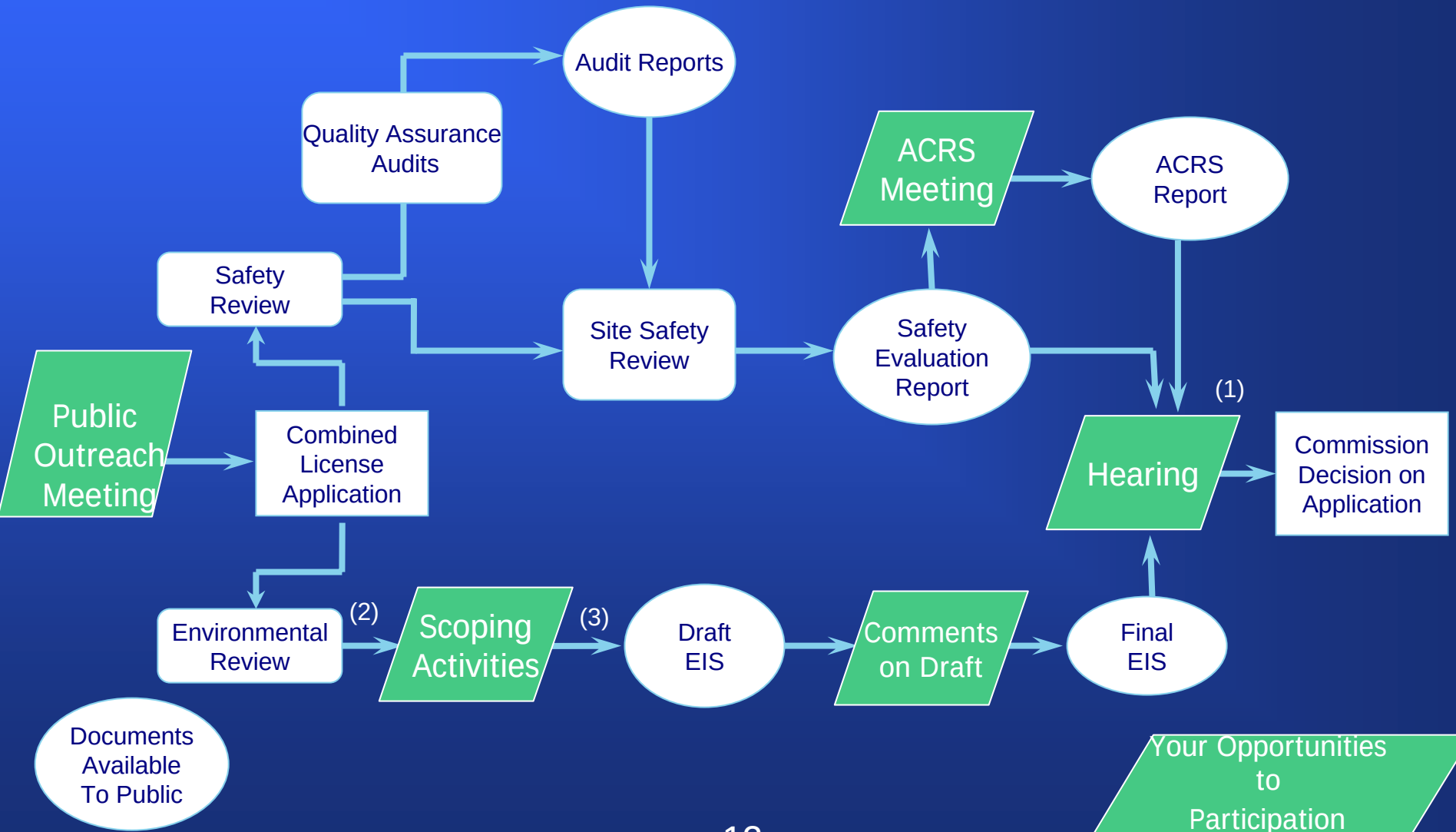
NRC Staff Review

- Determine whether application satisfies NRC safety and environmental regulations and requirements
- Perform environmental review in accordance with National Environmental Policy Act and other statutes
- Make informed decisions based on the facts and compliance with U.S. laws and NRC regulations
- Clearly document our safety and environmental findings
- Follow established procedures that allow public participation
- Maintain an open and transparent process

Your Opportunities to Participation

- Obtain information at www.nrc.gov
  - NRC processes and how to participate
  - Publicly available information about the license application
- Meetings between the NRC and the applicant
- Comment on environmental review
- Participate in Advisory Committee on Reactor Safeguards meetings
- Participate in the hearing process

Combined License Application Review Process



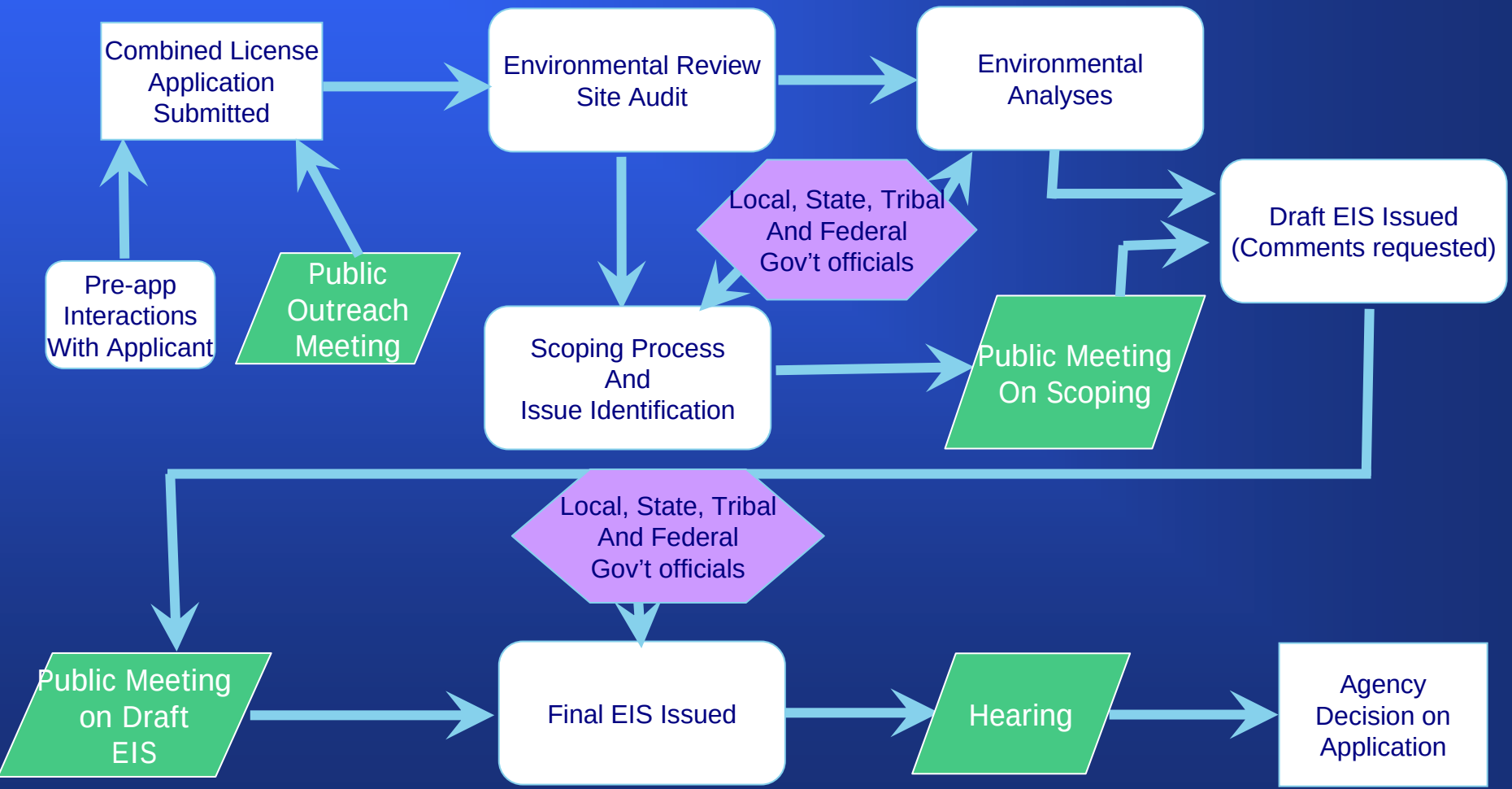
The Hearing Process (1)

- NRC issues a Notice of Hearing in the *Federal Register*, which offers an opportunity for the public to participate in the hearing as a party (called “intervention”)
- A request (petition) to intervene must be filed within 60 days of the date of the Notice
- The requestor must state his or her interest that may be affected by granting the license, and at least one dispute with the application
- Three judges (an Atomic Safety and Licensing Board (ASLB)) will decide whether to grant intervention and conduct the hearing
- A person who did not seek to intervene or was not granted intervention may make a statement to the Board, although this statement is not evidence in the hearing
- Regulations governing intervention are in 10 C.F.R. § 2.309

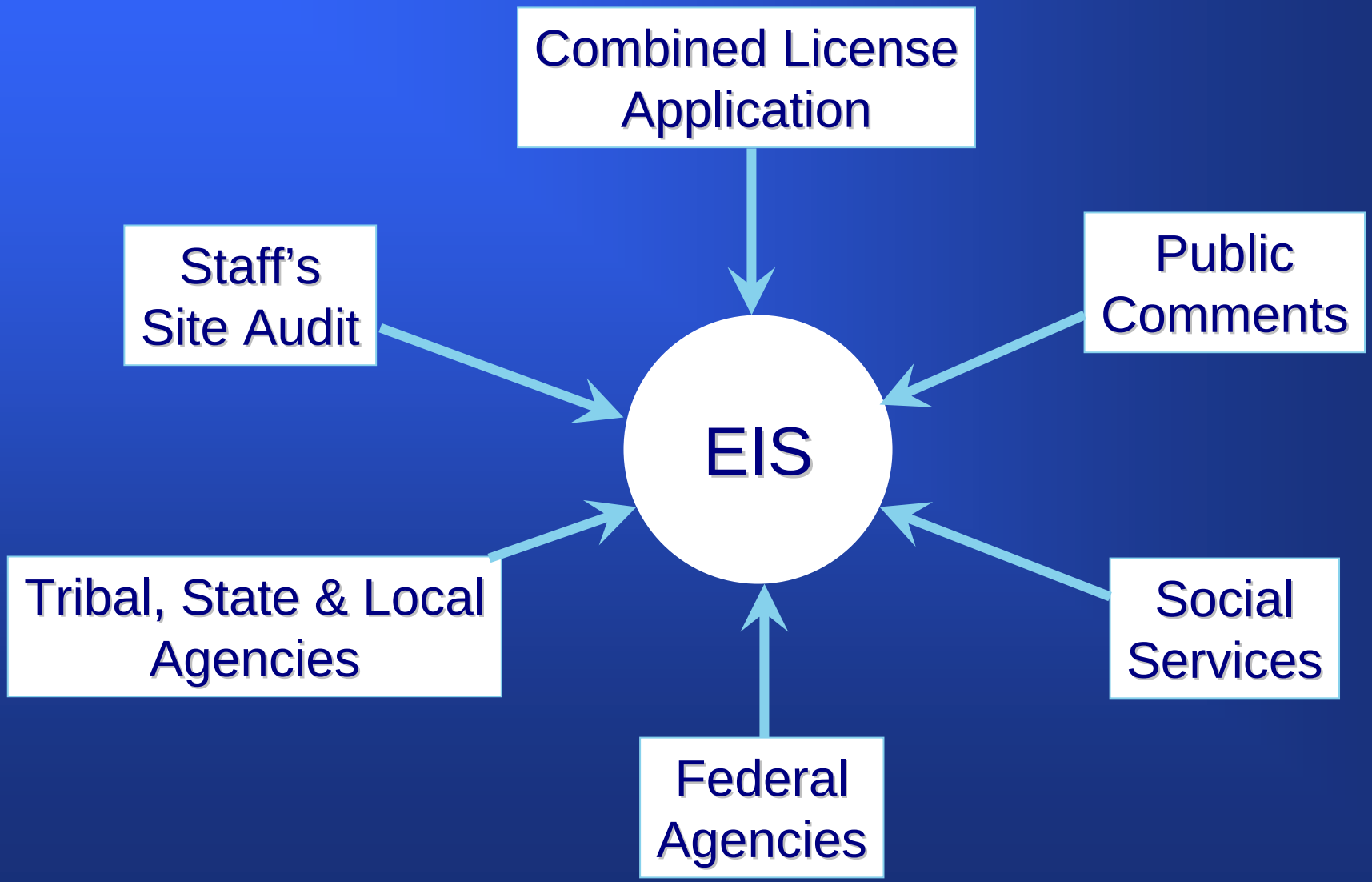
National Environmental Policy Act (NEPA) (2)

- NEPA requires Federal agencies to use a systematic approach to consider environmental impacts
- An Environmental Impact Statement (EIS) is required for major Federal actions that may significantly affect the quality of the human environment
- Granting a combined license is considered a major Federal action

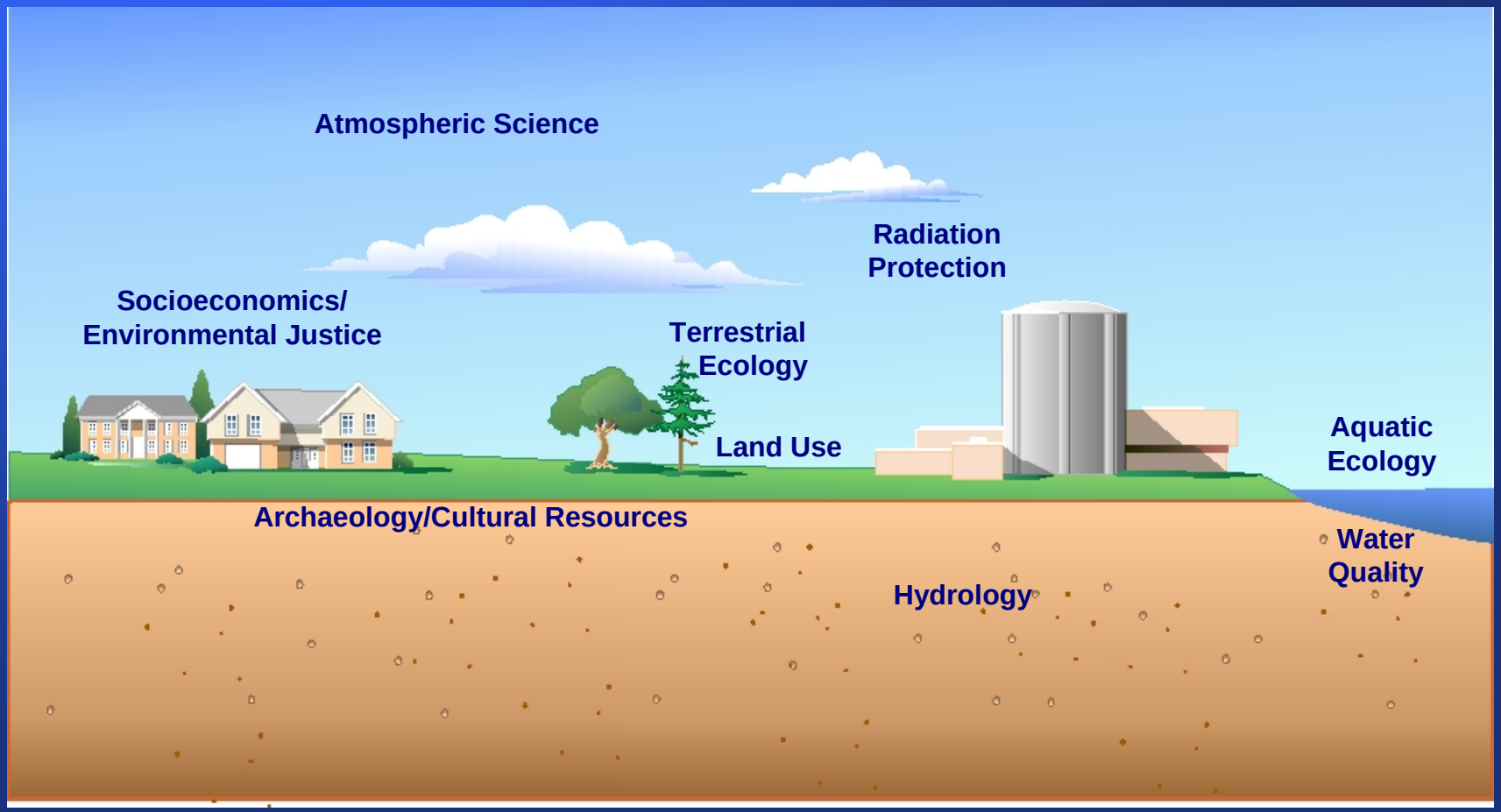
Environmental Review Process



Information Gathering (3)



Environmental Review Team Expertise

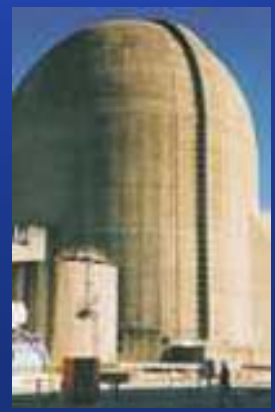


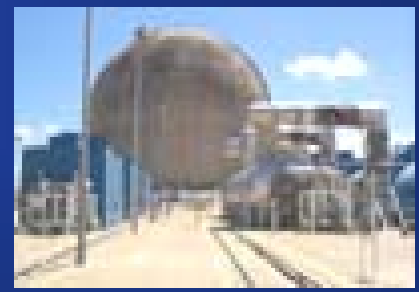
If the Combined License is issued….

- If The NRC authorizes the licensee to start construction and operate a nuclear power plant
  - Nuclear safety-related construction activities will be conditioned in the license however, preparatory site work that is not related to the nuclear safety-portion of the facility, may be permitted by other authorities such as the state and/or local municipality
- NRC staff would inspect nuclear safety–related construction activities
- NRC would verify that the plant is built as designed prior to operation (required by regulation)

NRC Construction Inspection Program

- Vendor Inspections
- Quality Assurance Engineering Program
- Operational Program Inspections
- Inspection, Tests, Analyses, and Acceptance Criteria





ITAAC

- Inspections, Tests, Analyses, and Acceptance Criteria to confirm that the facility has been constructed and will be operated in conformity with the license
- Required to be submitted as part of the design certification and combined license applications
- Reviewed and approved by NRC staff in conjunction with the application

ITAAC Implementation

- Licensees perform 100% of ITAAC verification during construction
- NRC reviews all completed ITAAC and directly inspects a sample of ITAAC-related activities.
- Both the Licensee and NRC document ITAAC closure activities
- The regulations provide an opportunity to request a hearing based on whether acceptance criteria are met
- Prior to plant operation all acceptance criteria must be met

NRC CONTACTS

- Billy Gleaves, Meeting Project Manager
  - BCG@NRC.GOV, 301-415-5848
- Eileen McKenna, Chief, AP1000 Projects Branch
  - EMM@NRC.GOV, 301-415-2189
- Andrew Kugler, Environmental Project Manager
  - AJK1@NRC.GOV, 301-415-2828
- Butch Burton, Chief, Environmental Projects Branch
  - WFB@NRC.GOV, 301-415-6332
- Rich Laura, Senior Reactor Systems Engineer, Construction Inspection and Allegations Branch
  - RAL1@NRC.GOV, 301-415-1837