



Public Meeting

Watts Bar Nuclear Plant Unit 2

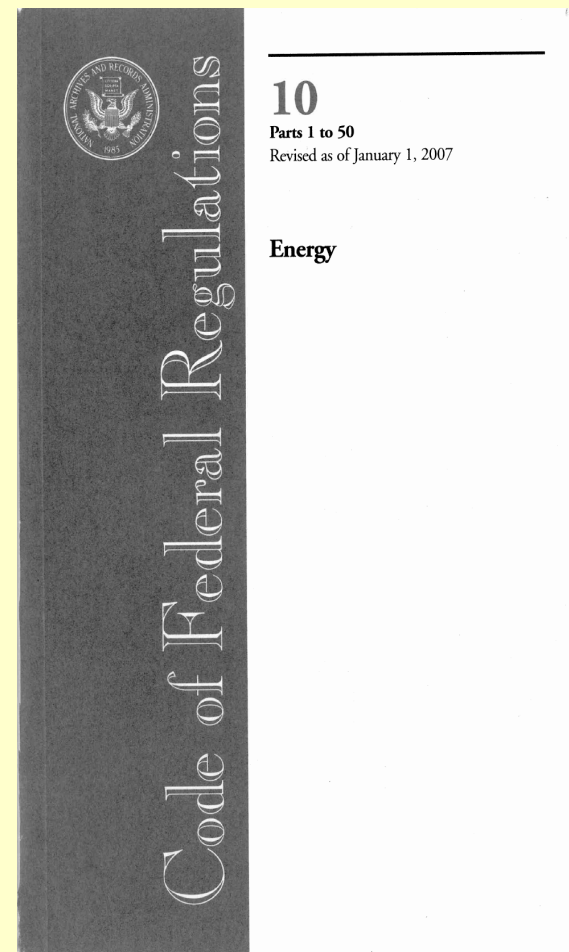
Licensing and Inspection

Purposes of This Meeting

- Describe planned Watts Bar Unit 2 licensing and inspection programs
- Describe how you can monitor and participate in the NRC review process

Nuclear Regulatory Commission

- Mission: to protect the public health and safety, promote the common defense and security, and protect the environment
- Independent Agency
- Over 30 years experience regulating operating reactors and other civilian uses of nuclear materials
- 104 operating nuclear power plants



Participants in NRC Licensing Process



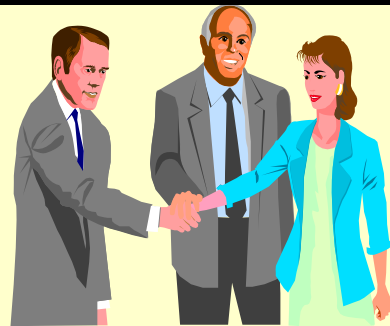
NRC

Commissioners

Staff members

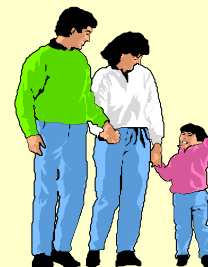
Hearing participants

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

Watts Bar History

- **1971: Application for construction permit (CP) filed by TVA**
- **1972: Hearings held on CP application**
- **1973: Construction permit issued for 2 reactors at Watts Bar**
- **1976: Application for operating license (OL)**
- **1976: Notice of opportunity for hearing on OL application**
- **1979: Final Environmental Statement (FES) for OL issued**
- **1985: TVA nuclear program halted to resolve construction and performance problems**
- **1991: Construction resumed at Watts Bar Unit 1**
- **1995: Watts Bar Unit 1 construction completed**
- **1995: FES Supplement issued for Units 1 and 2**
- **1996: Watts Bar Unit 1 full power license issued**
- **2000: Watts Bar Unit 2 formally deferred**
- **2007: TVA informed NRC of intent to complete Watts Bar Unit 2**

Licensing Review Goals

- Ensure facility will be constructed and operated safely by reviewing:
 - Design of facility
 - Quality assurance
 - Security plan
 - Emergency preparedness (with the Federal Emergency Management Agency)
 - Operator training
- Confirm compliance with regulatory requirements
- Clearly document our safety findings
- Maintain an open and transparent process

Existing Licensing Review Documents

- NUREG-0847, “Safety Evaluation Related to the Operation of Watts Bar Nuclear Plant, Units 1 and 2”
- NUREG-1232, Vol. 4, “Safety Evaluation Report on Tennessee Valley Authority: Watts Bar Nuclear Performance Plan, Watts Bar Unit 1”
- NUREG-0498, “Final Environmental Statement related to the operation of Watts Bar Nuclear Plant, Units 1 and 2”

Reconstitution of Licensing Review

- NRC staff will review NUREG-0847 and NUREG-1232 to identify remaining licensing issues
- NRC has requested that TVA:
 - address generic issues as has been required for operating plants
 - describe differences between previous reviews and the plant as it will be completed

Licensing Products

- Safety evaluations for remaining technical issues
- Extension of current construction permit completion date
- Supplemental Final Environmental Statement
- Operating license
 - Low power
 - Full power

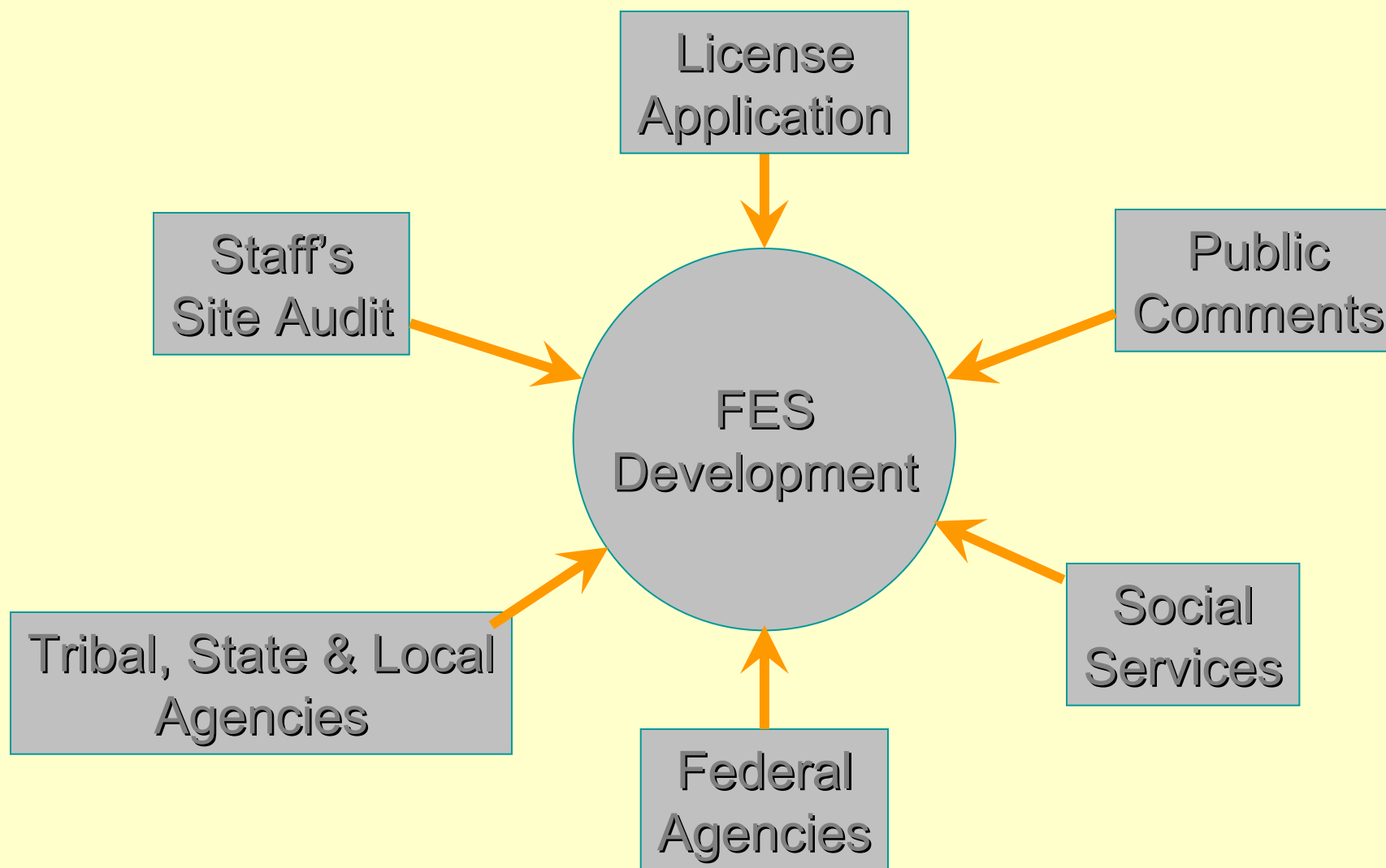
Public Participation and Monitoring

- 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
- Attend Advisory Committee on Reactor Safeguards meetings
- Commission meetings
- Participate in the hearing process

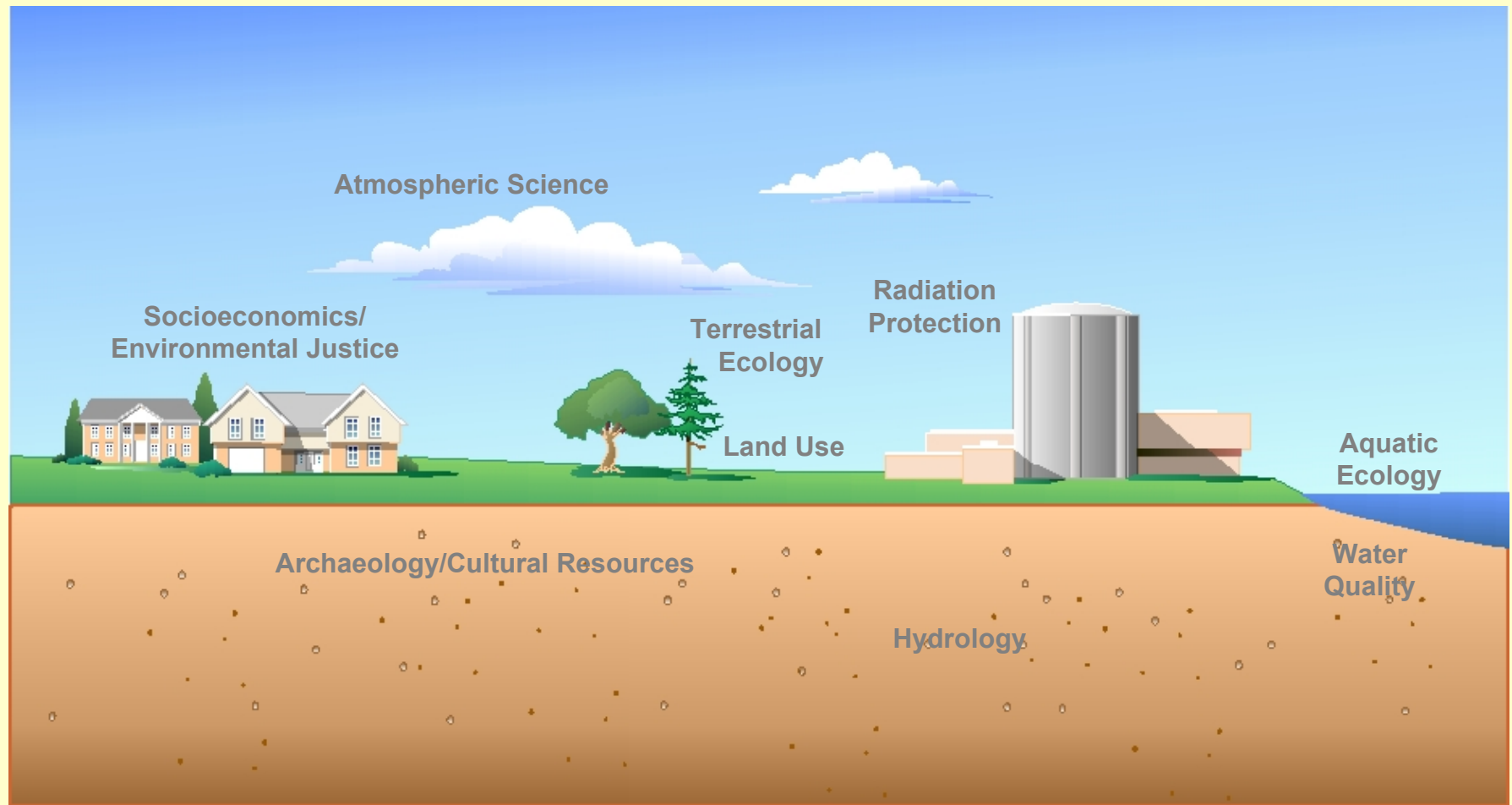
The Hearing Process

- NRC issues a Notice of Opportunity for Hearing in the *Federal Register*, which offers an opportunity for the public to seek to participate in the hearing process 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 present at least one admissible contention regarding the application
- Three administrative judges (Atomic Safety and Licensing Board (ASLB)) will decide whether to grant intervention and conduct a hearing
- A person who does not seek to intervene or is not granted intervention status may make a limited appearance statement to the Board
- Regulations governing intervention are in 10 C.F.R. 2.309

Environmental Review Information Gathering



Environmental Review Areas

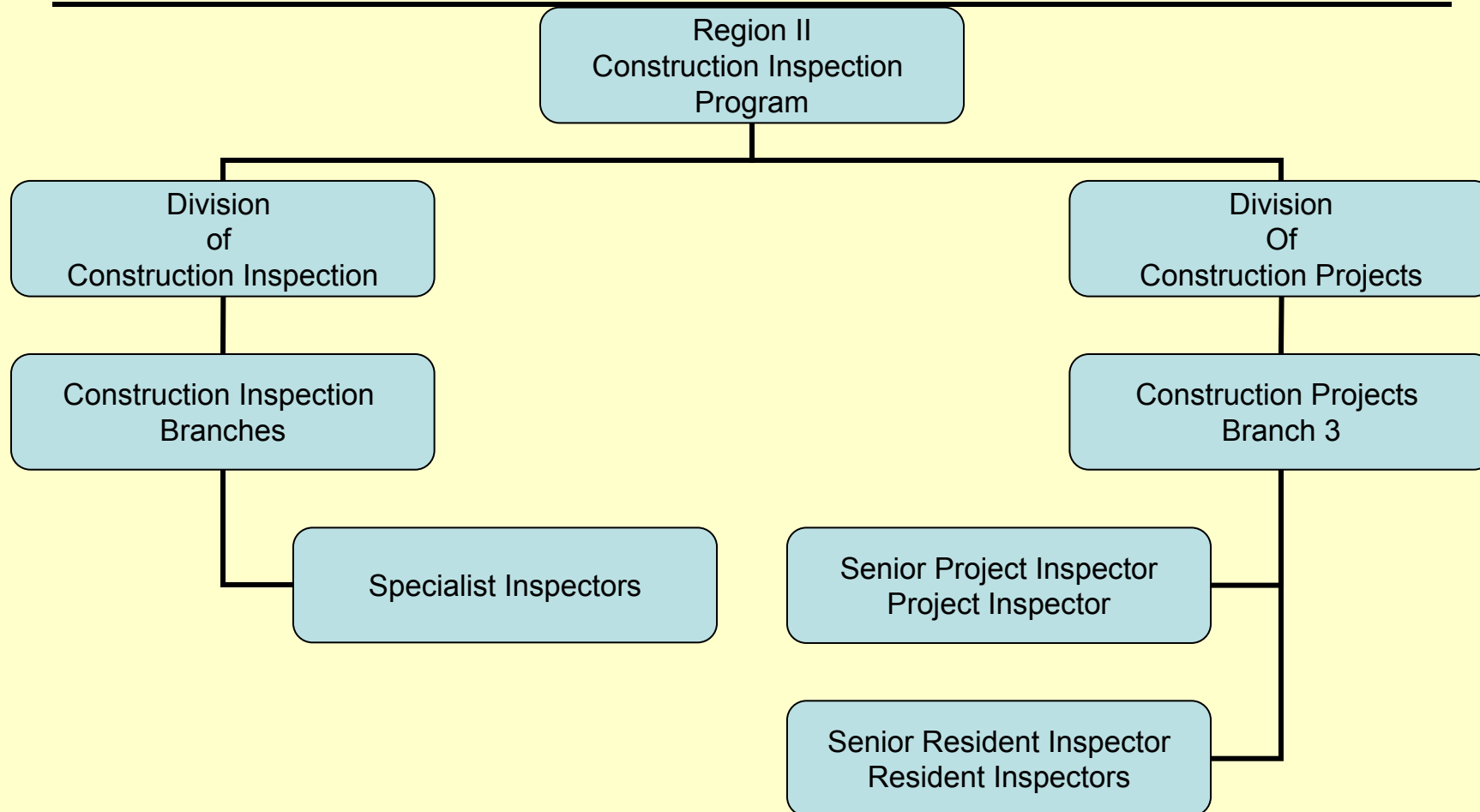


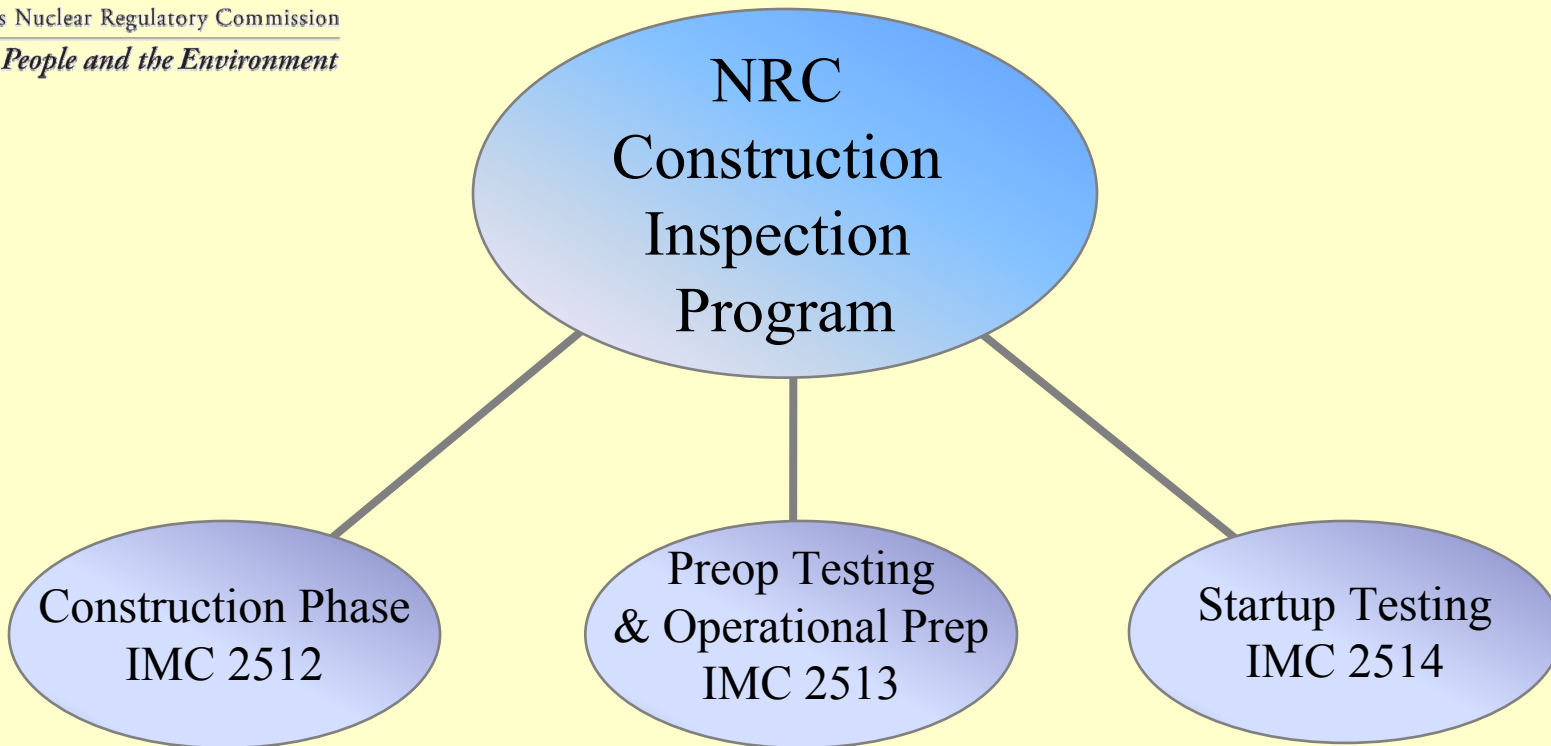


Watts Bar 2 Inspection Program

December 04, 2007

Construction Inspection Organization

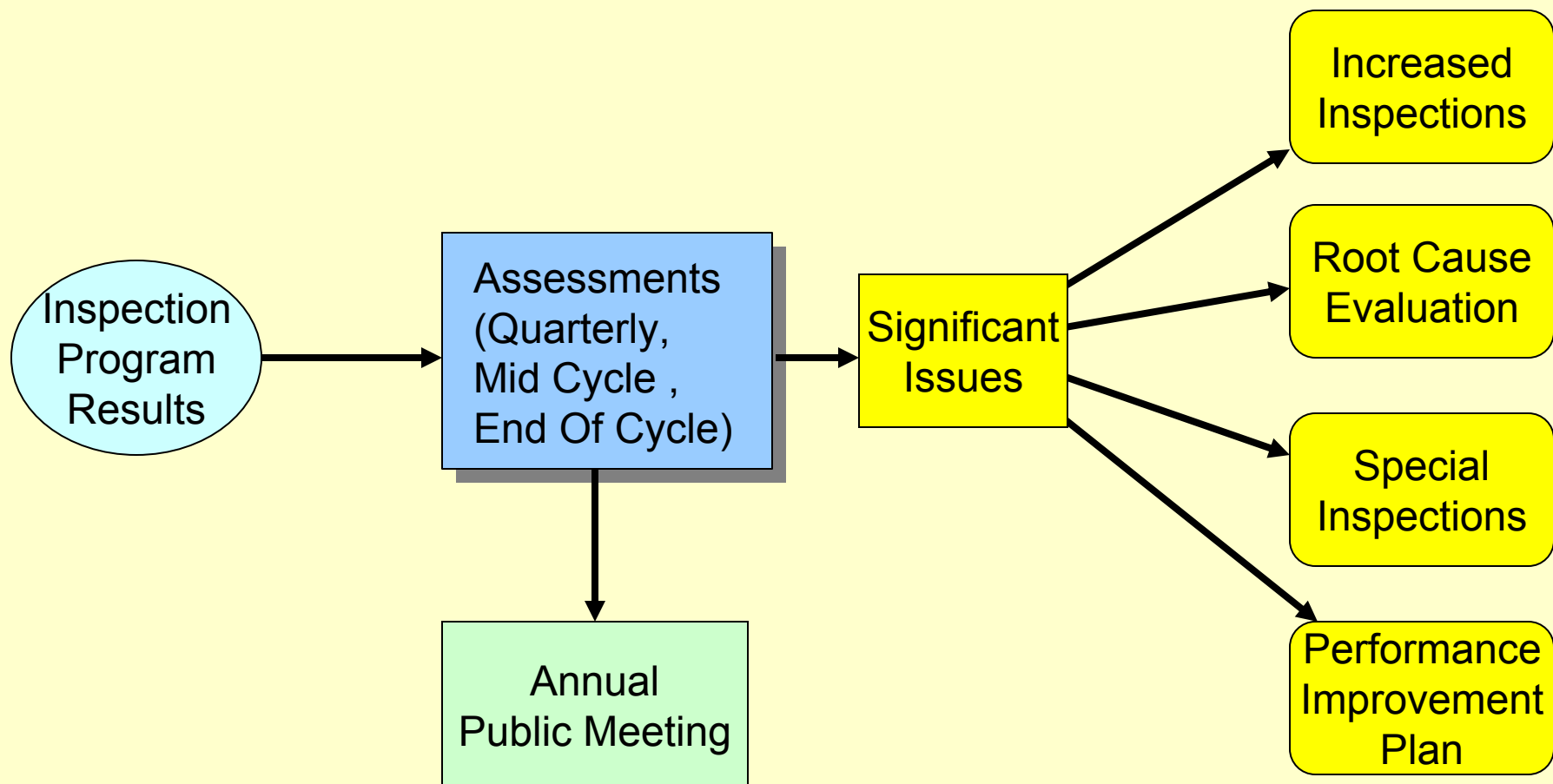




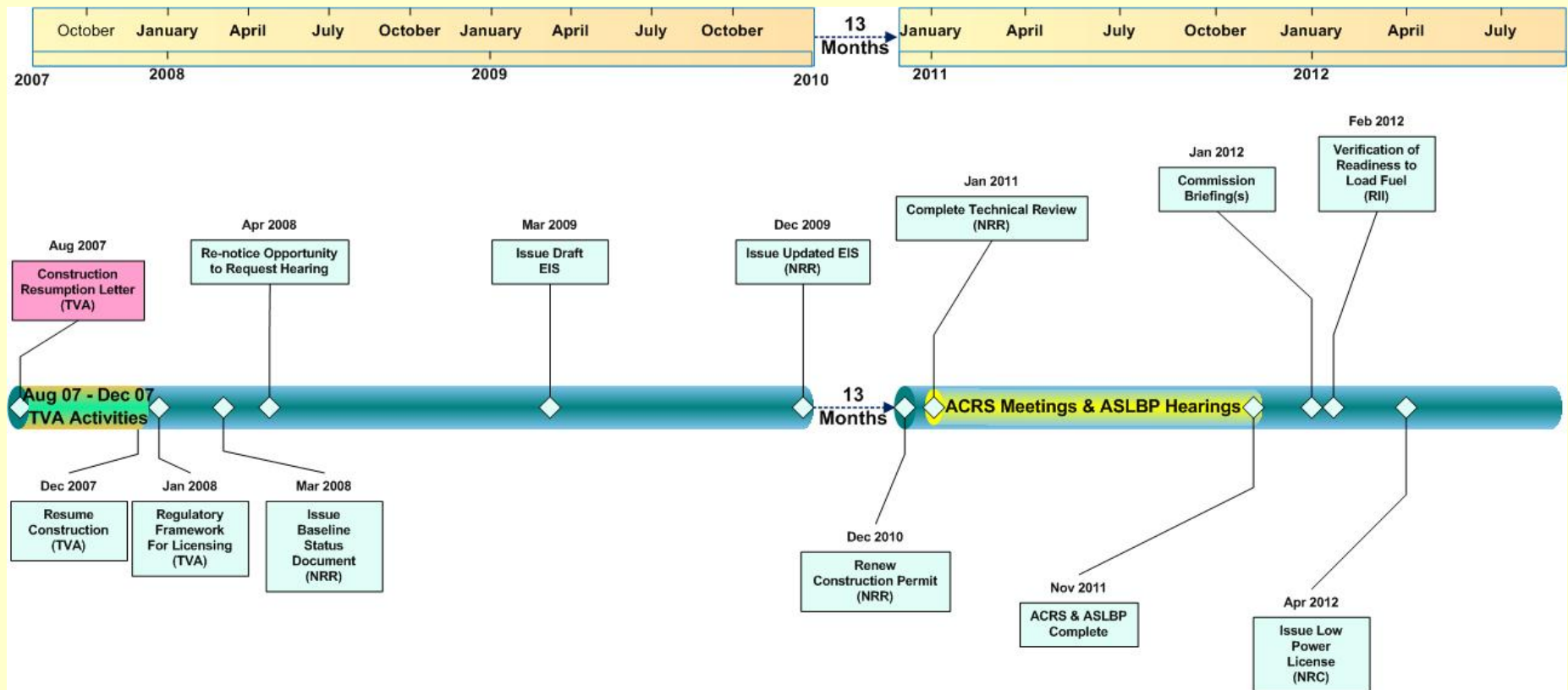
Inspection Program Elements



Assessment



Preliminary Schedule



Information Resources

- www.nrc.gov – general information regarding agency activities
- <http://www.nrc.gov/reactors/plant-specific-items/watts-bar.html> - Watts Bar Unit 2 web page

Conclusion

- Before issuing an operating license, NRC will confirm that TVA has completed proper design and construction in accordance with our regulations, and can safely operate Watts Bar Unit 2
- NRC encourages the public to monitor and participate in the licensing process

- Backup Slides

Watts Bar 2 Inspection Program

- Specific guidance for completing Watts Bar 2 inspection program (IMC 2517)
- Construction inspections will use a combination of planned and reconstituted inspections (IMC 2512)
 - Reconstitution similar to Watts Bar 1 process including review of allegations
- Pre-op testing, operational preparedness, and startup testing per IMCs 2513 and 2514
- Inspect CAPs, SPs, Generic Communications, and historical open items

ASSESSMENT

- Quarterly integrated reports
- Use documented inspection findings, cross-cutting aspects, and conclusions as input
- Applicant's performance is reviewed over a 12-month period
 - Quarterly review;
 - Mid-Cycle Review
 - End-of Cycle Review, public meeting with licensee

ASSESSMENT (cont'd)

- Regulatory responses for significant performance issues include:
 - Increase inspections in area of concern
 - Require applicant root cause evaluation and CA w/NRC oversight
 - NRC team inspections in area of concern
 - Applicant performance improvement plan with NRC oversight

Commission Direction

- Staff Requirements Memorandum, July 25, 2007
 - “The Commission supports a licensing review approach that employs the current licensing basis for Unit 1 as the reference basis for the review and licensing of Unit 2.”
 - “Significant changes to that licensing approach would be allowed” under certain conditions
 - “...the staff should issue a further notice of opportunity for hearing on the application.”