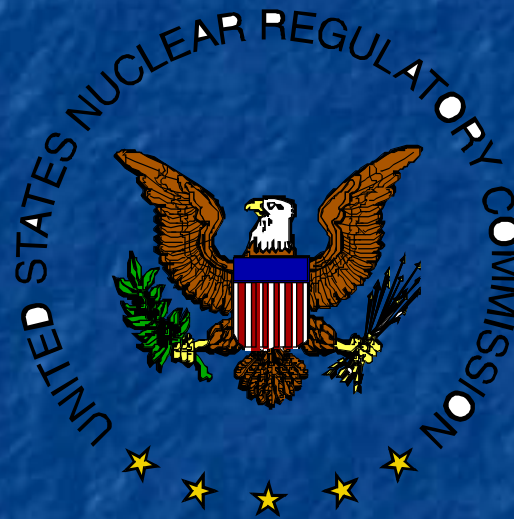


Inspections, Tests, Analyses and Acceptance Criteria (ITAAC)



Michael Cullingford
Special Assistant Technical
Policy and International Liaison
Office of Nuclear Reactor Regulation

10 CFR Part 50 Licensing Process

- Construction Permit
 - Preliminary Design
 - Site Characteristics
 - Environmental
- Operating License
 - Final Design
 - Operational Programs
 - Emergency Preparedness

Part 50 Licensing Process

- Public participation is difficult in the 10 CFR Part 50 process because few design details are available at construction stage
- Construction often had to wait for design completion
- Construction rework was needed because of design changes and regulatory backfits
- Final safety decisions are not made until the nuclear plant is nearly complete
- Public participation was difficult at the operating license stage because the nuclear plant was nearly complete
- Major costs expended before final design approved, resulting in an economic risk for the electric company

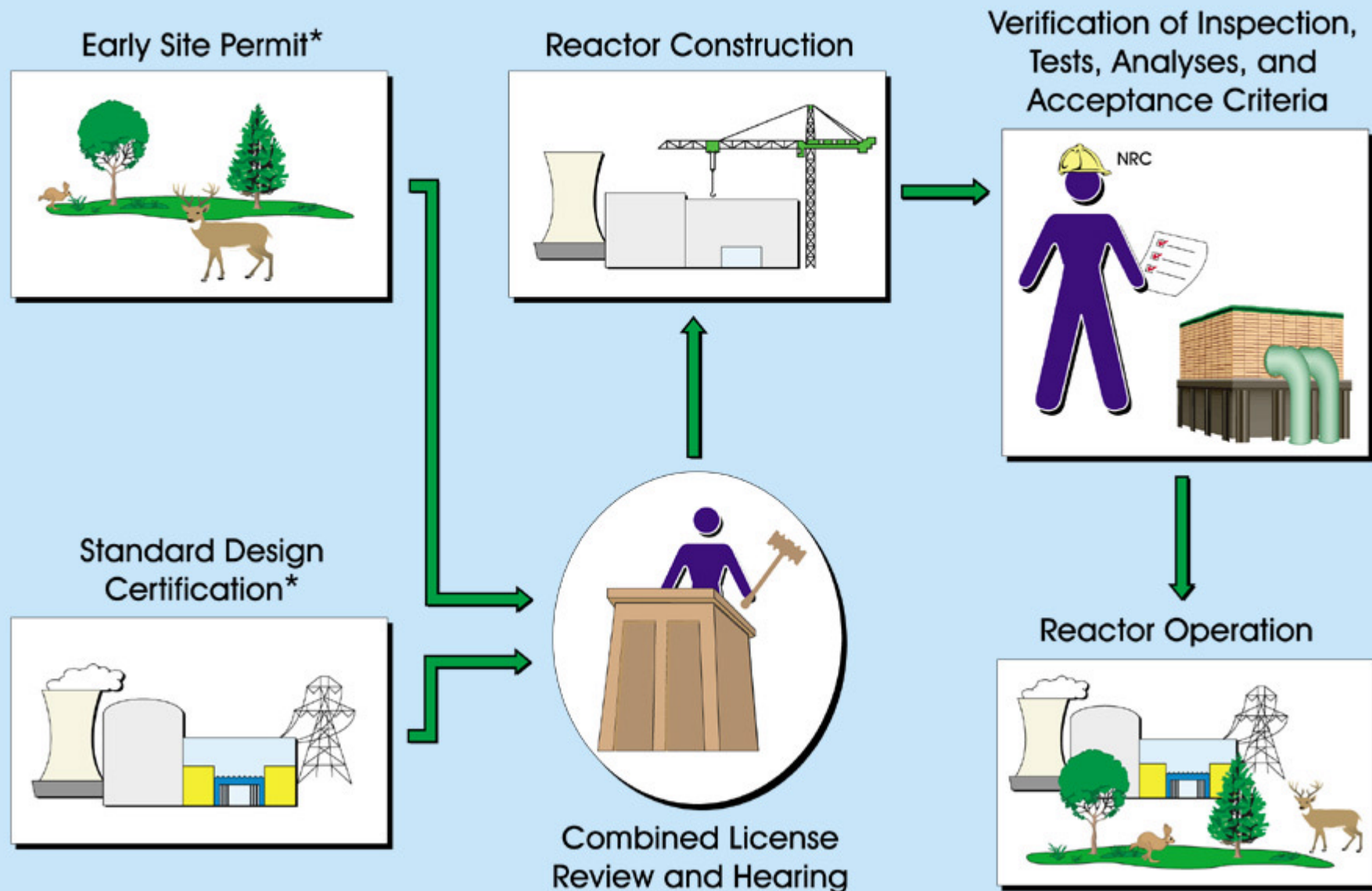
Goals for Part 52 Process

- Stable and predictable licensing process
- Resolve safety and environmental issues before authorizing construction
- Timely and meaningful public participation
- Reduce financial risks to licensees (COL)
- Enhance safety and reliability through standardization of nuclear plant designs

Part 52 Licensing Process

- Provides for public participation at the design stage and prior to siting and construction of nuclear power plants
- Final design complete prior to starting construction
- Resolves safety and environmental issues before construction
- Resolves inspection requirements & acceptance criteria (ITAAC) prior to authorization of construction
- Facilitates standardization of nuclear plant designs
- Reduces financial risks for holders of a combined license

Combined Licenses, Early Site Permits, and Standard Design Certifications



* or equivalent process

Part 52 Licensing Process

Additional Information

- NUREG/BR-0298, "Nuclear Power Plant Licensing Process," provides an overview of the Part 50 and Part 52 licensing processes
- New Reactor Licensing website
 - <http://www.nrc.gov/reactors/new-reactor-licensing.html>
- NRC has initiated a rulemaking to update and clarify the alternative licensing processes in Part 52
 - Proposed rule Federal Register Notice issued July 3, 2003
 - Comment period end September 16, 2003
- Construction Inspection Framework Document issued in May 2003
 - Federal Register Notice issued June 6, 2003
 - Workshop scheduled for August 27, 2003
 - Public comment period ends September 15, 2003

Combined License (COL)

- Combined construction permit and conditional operating license for a nuclear power plant
- COL may reference an ESP, a standard design certification, both, or neither
- A COL is the fundamental licensing process in Part 52 for reducing the financial risks for electric companies building nuclear plants.

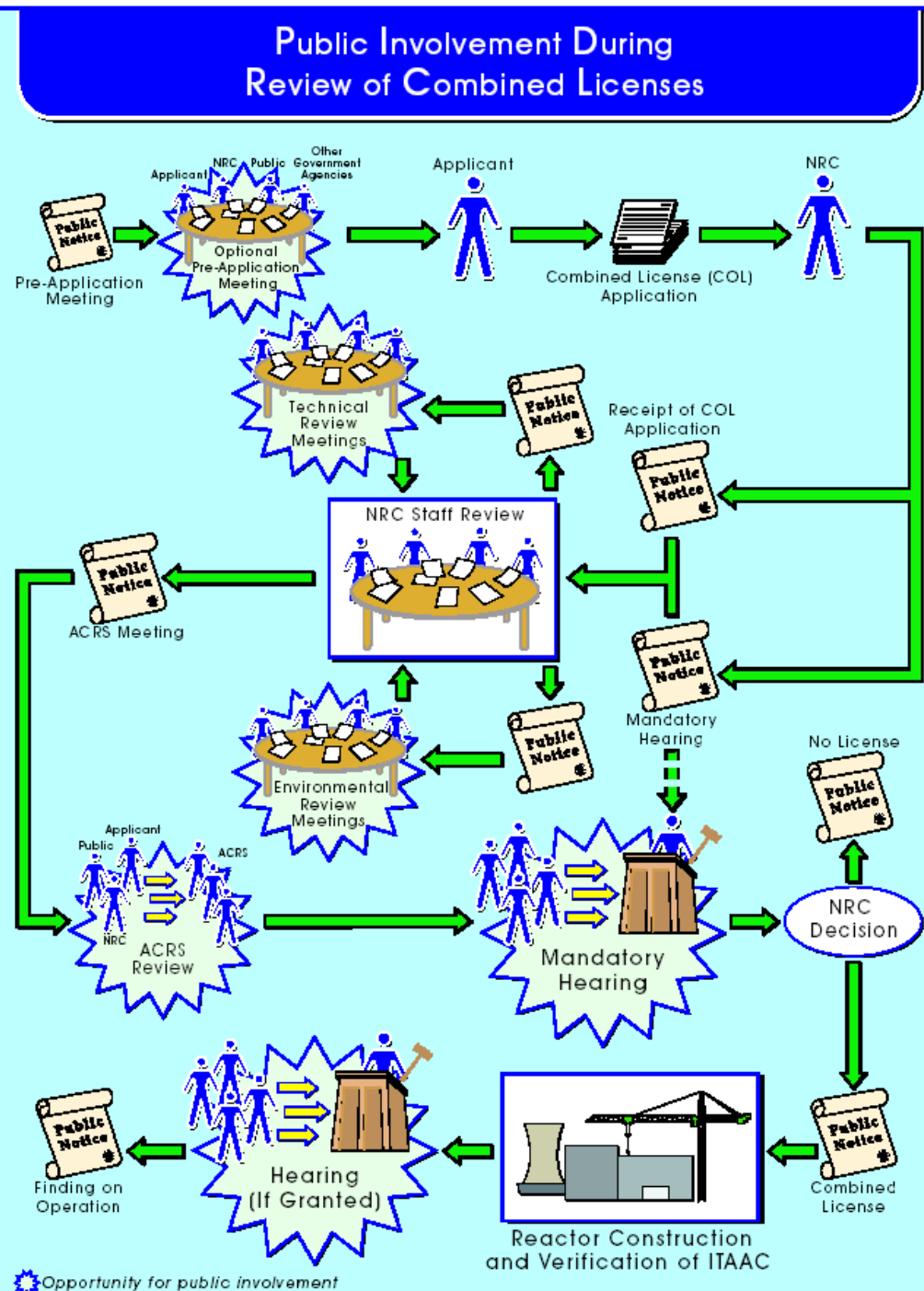
Combined License - ITAAC

- ITAAC verify that the facility has been constructed and will be operated in conformity with the license, the provisions of the Atomic Energy Act, and the Commission's rules and regulations
- ITAAC met prior to fuel load
- ITAAC part of Tier 1 material in Design Control Document for Certified Designs
- Tier 1 Material includes
 - Definitions and general provisions
 - Design descriptions
 - ITAAC
 - Significant site parameters
 - Significant interface parameters
- Hearing opportunity after plant is built is tied to ITAAC

Combined License Overview

October 30-31, 2003

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