



Pre-Proposal Conference

May 1, 2007

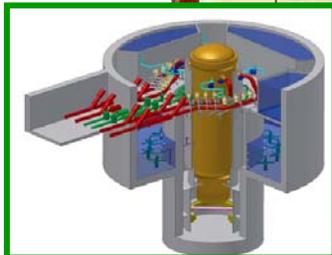
Technical Assistance in Support of
Design Certification, Early Site Permit, Combined
License, Environmental, and Pre-Application
Activities Related to New Reactor License
Applications

Office of Administration, Division of Contracts
Office of New Reactors, Division of New Reactor Licensing

Agenda

- Introductions
- Remarks by the Director, NRO
- Background Information
 - ⊕ Overview of 10 CFR Part 52
 - ⊕ Design-Centered Review Approach
- Comments on Small Businesses
- Questions and Answers

Potential New Reactor Licensing Applicants



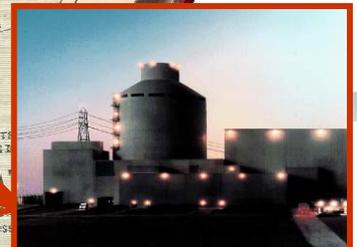
ESBWR
 Dominion
 Entergy
 NuStart



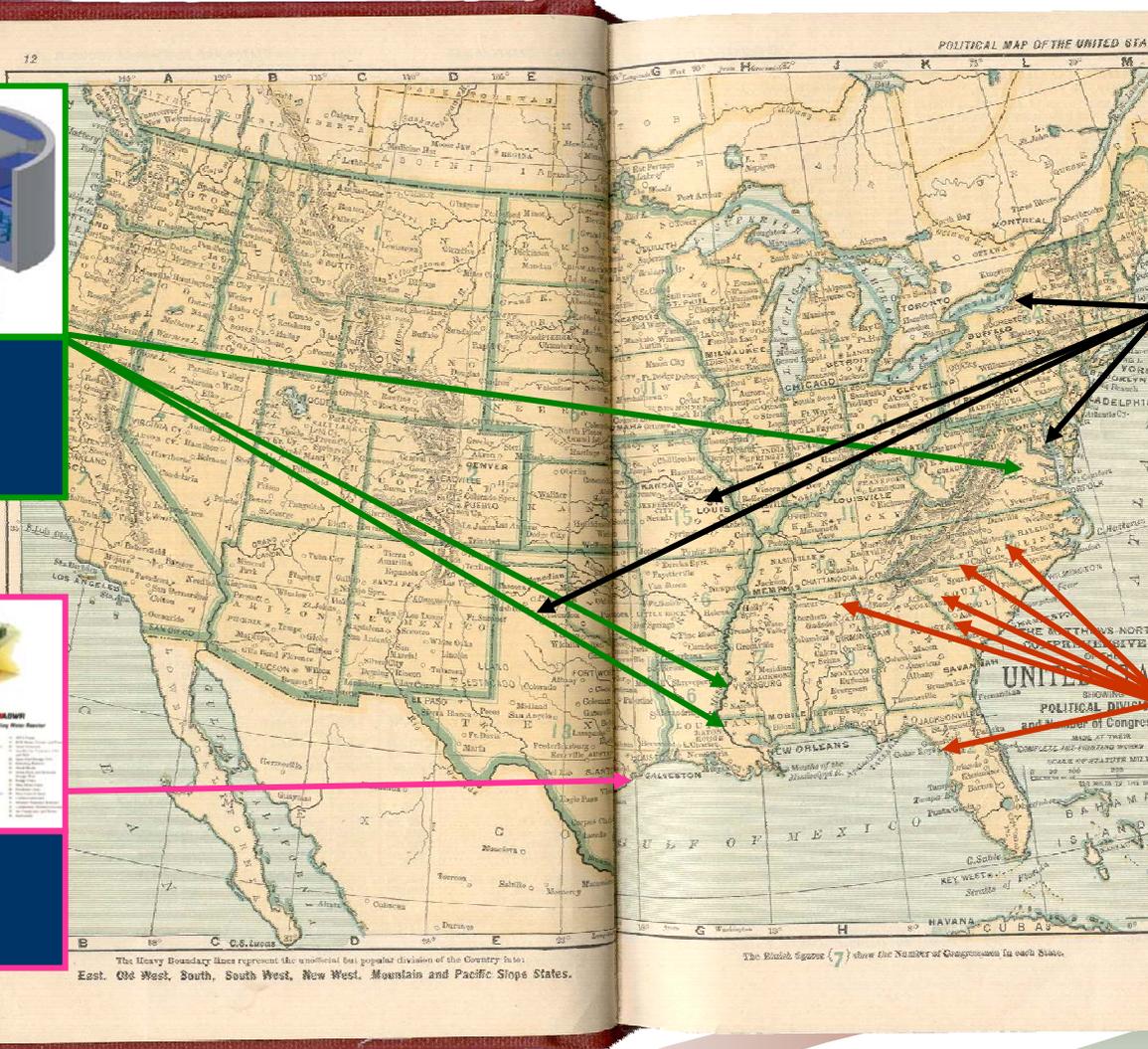
ABWR
 NRG Energy



EPR
 Amarillo Power
 Ameren UE
 UNISTAR



AP1000
 Duke
 NuStart
 Progress
 S.C. Electric & Gas
 Southern Co.



New Construction

- Nuclear plants will be built more rapidly than their predecessors
- Detailed engineering essentially complete by start of construction
- Modular construction techniques may be used
- Fabrication of components may begin before COL issuance
- Components and modules may be fabricated in other countries
- Site preparation work may be performed

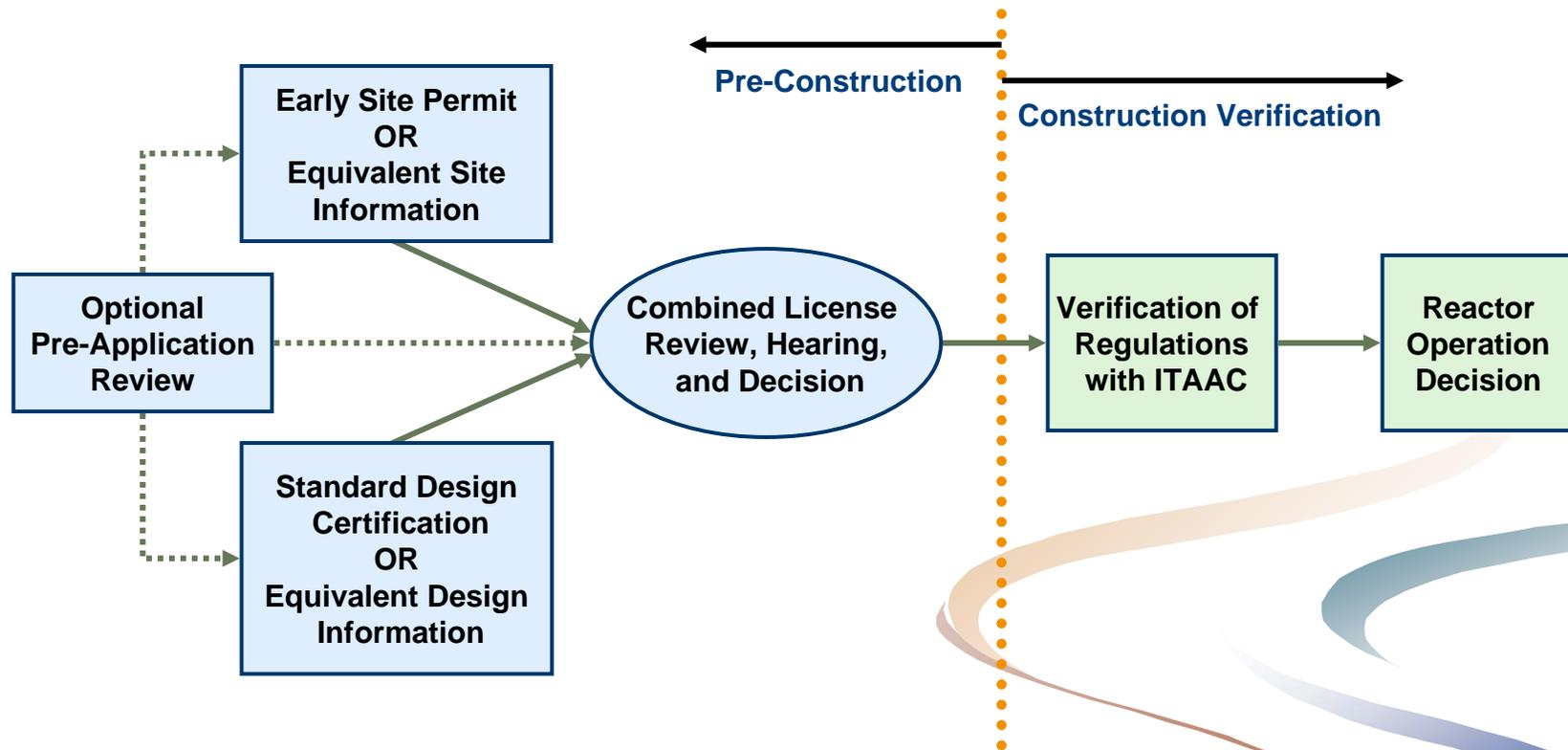
Required Reviews For Licensing

- Applicant Qualifications
- Design Acceptability
- Environmental Impacts
- Operational Programs
- Site Safety
- Verification w/ITAAC

Part 52 Licensing Processes

- Processes involve:
 - ⊕ Early Site Permit (ESP)
 - ⊕ Design Certification (DC)
 - ⊕ Combined License (COL)
 - ⊕ *Standard Design Approval*
 - ⊕ *Manufacturing License (ML)*
- Provide a more predictable licensing process
- Resolve safety and environmental issues before authorizing construction
- Provide for timely & meaningful public participation
- Encourage standardization of nuclear plant designs
- Reduce financial risk to licensees

Part 52 - Fitting the Pieces Together

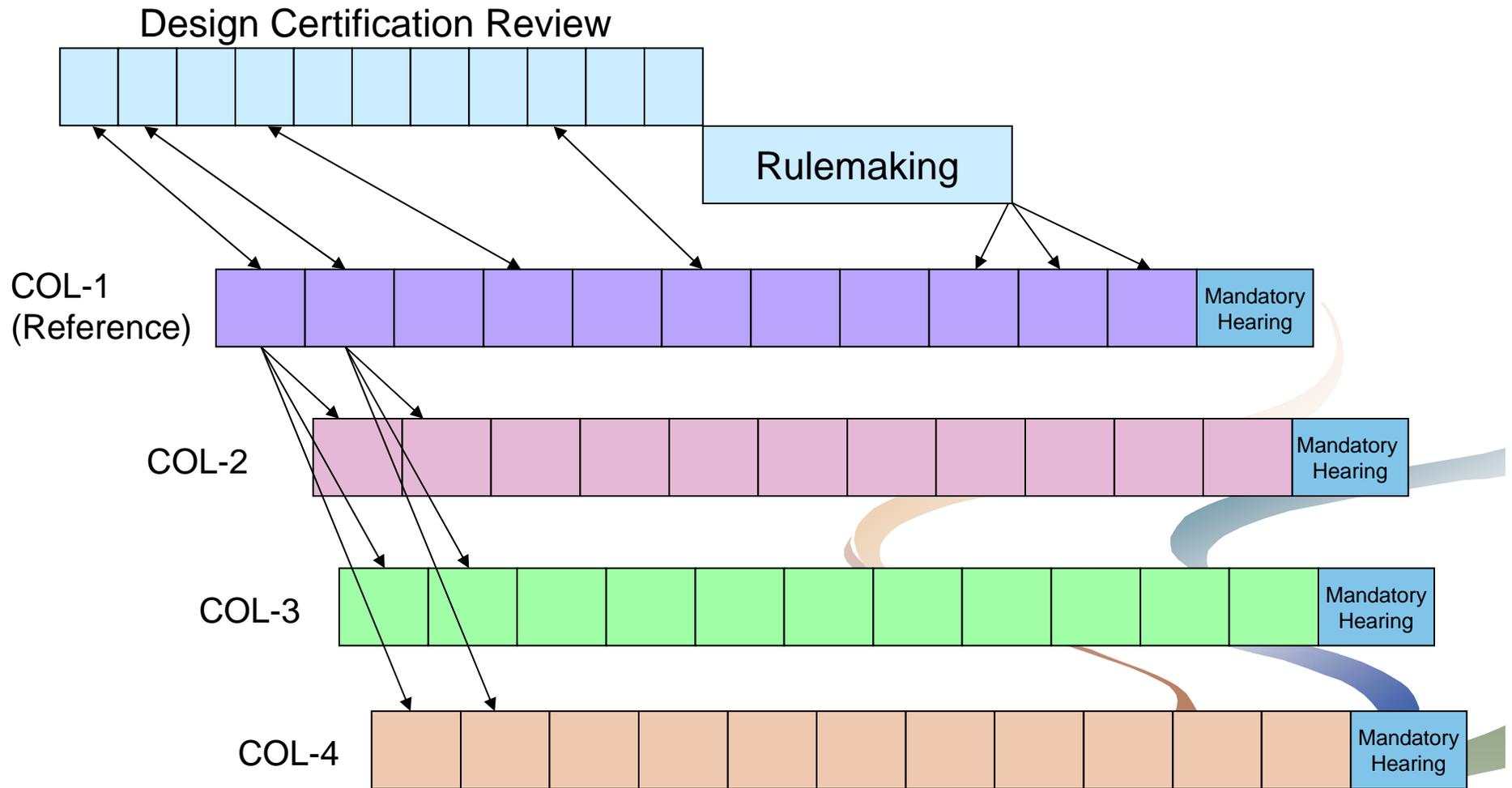


- Licensing decisions finalized before major construction begins
- Inspections w/ITAAC to verify construction
- Limited work may be authorized before COL issuance

Strategies

- Ensure Safety and Quality
- Maximize Standardization of Submittals and Reviews
- Expand NRC Capabilities
 - ⊕ Staff Recruiting/Retention (Dedicated)
 - ⊕ Acquire Technical Assistance
- Optimize Review Process
 - ⊕ Detailed Planning and Scheduling
 - ⊕ Disciplined Execution and Focus
 - ⊕ Subsequent reviews rely upon earlier work

One Decision – Multiple Applications



Similar approach used on site reviews (environmental and safety)