



Reviewing Emergency Preparedness in New Reactor Applications

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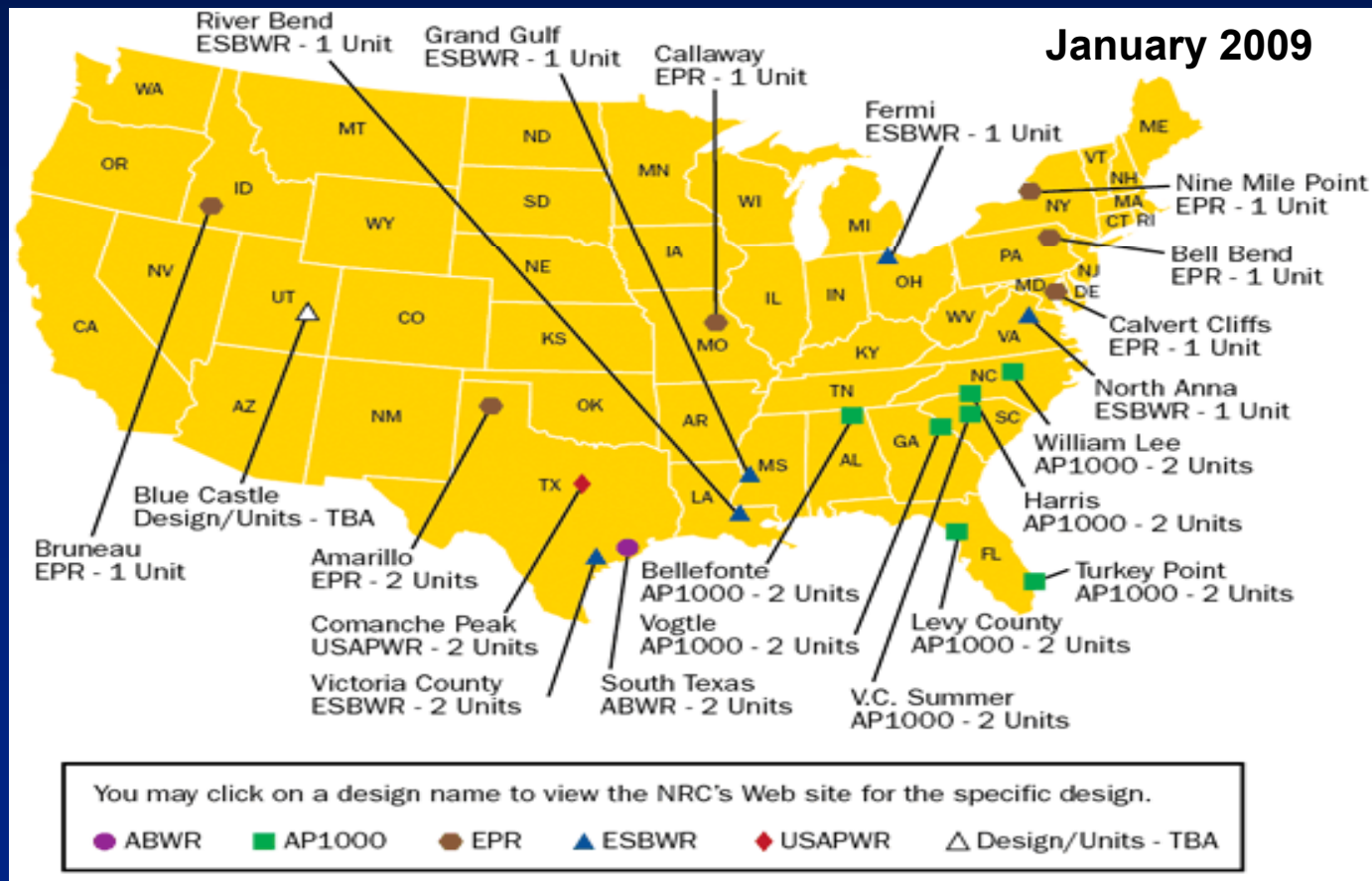
Energy Policy Act of 2005

- Authorizes federal risk insurance for the next 6 nuclear plants for delays associated with NRC reviews
- Nuclear energy production tax credits for the first 6,000 megawatts of electricity from new reactors
- Loan guarantees

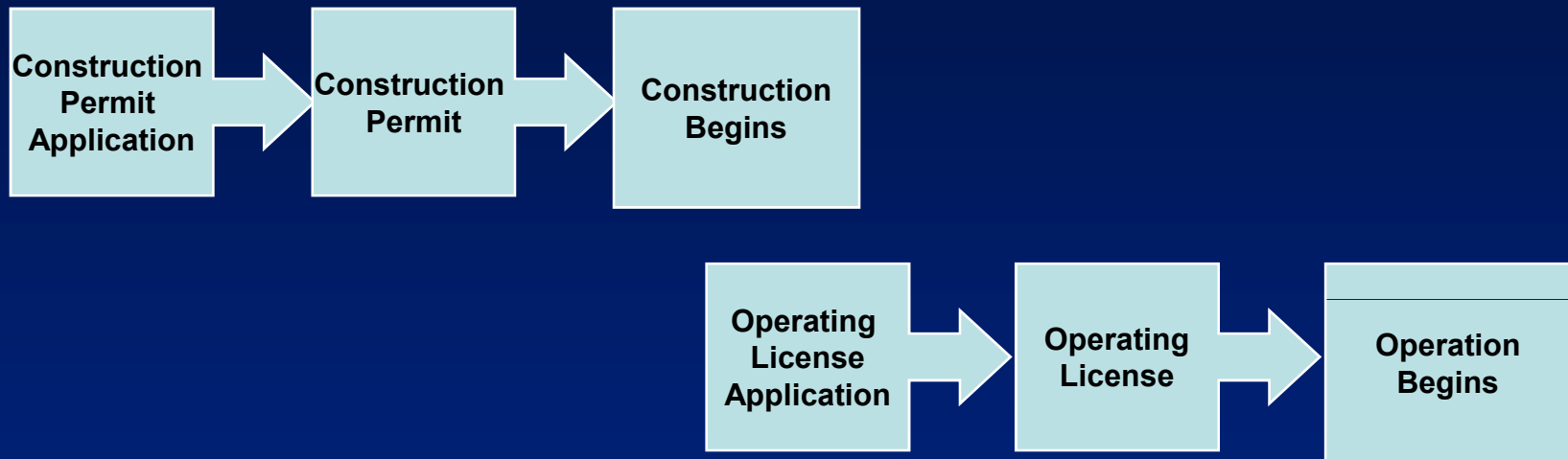
Proposed New Plants

- As of January 22, NRC has received 17 combined license (CL) applications for 26 reactors and expecting more
- Five different plant designs proposed
 - AP1000
 - Economic Simplified Boiling Water Reactor (ESBWR)
 - Evolutionary Power Reactor (EPR)
 - Advanced Boiling Water Reactor (ABWR)
 - Advanced Pressurized Water Reactor (USAPWR)

Location of Projected New Reactors

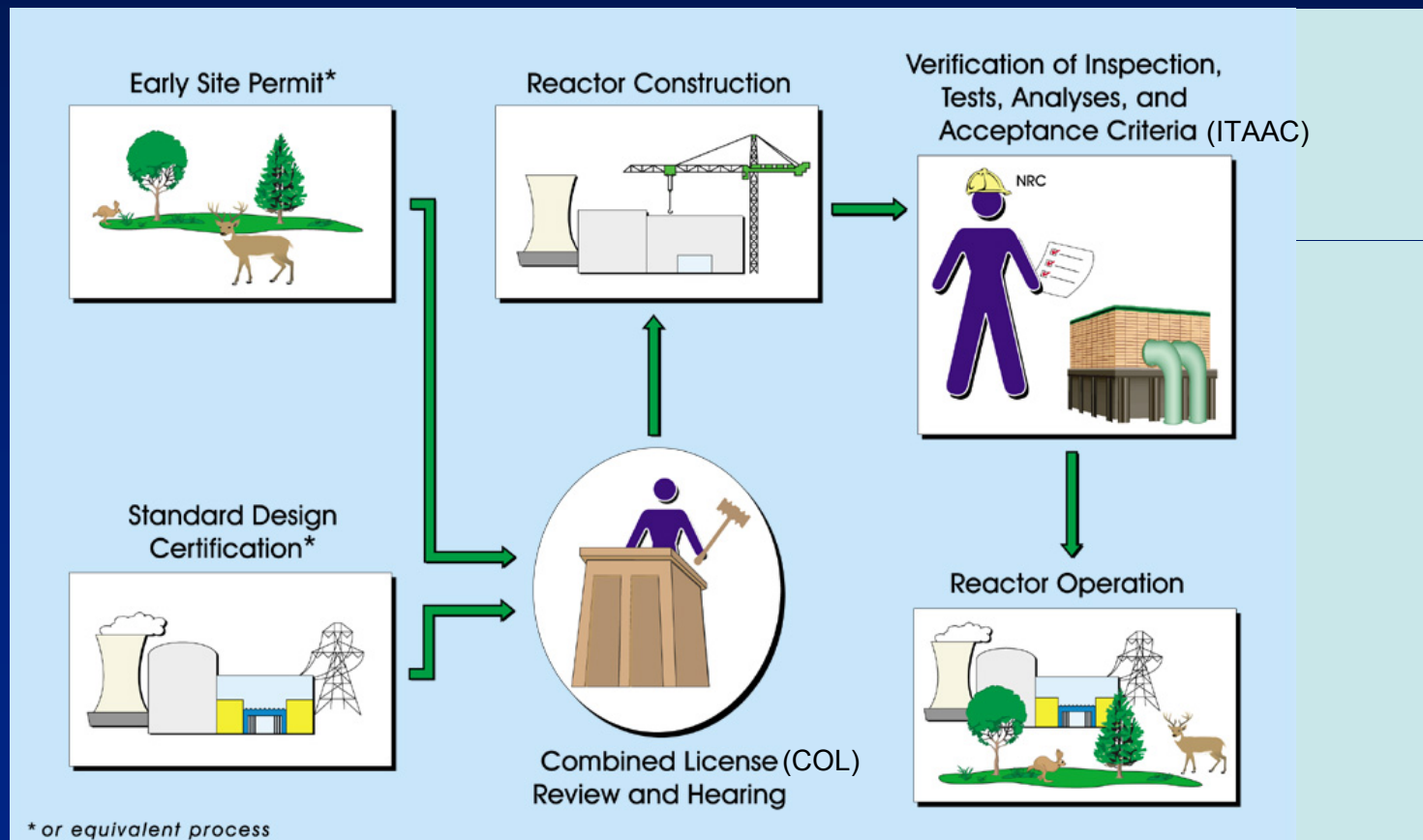


10 CFR Part 50 Licensing Process



- Design effort proceeded throughout process
- No backfit protection with a Construction Permit
- Regulatory standards evolved as construction proceeded

10 CFR Part 52 Licensing Process



Advantages of 10 CFR Part 52

- Provides a predictable licensing process
- Resolves safety and environmental issues before authorizing construction
- Provides for timely & meaningful public participation
- Encourages standardization of nuclear plant designs
- Reduces financial risk to nuclear plant licensees

Regulatory Process

- Emergency Preparedness “Reasonable Assurance” finding needed prior to issuing License (10 CFR 50.47 (a))
- After COL is issued:
 - Licensee completes ITAAC, NRC inspects prior to fuel loading
 - ITAAC for NRC and FEMA evaluation of exercise is included

NRC/FEMA Review

- NRC/FEMA Memorandum of Understanding (MOU) establishes working relationship - 44 CFR 353, Appendix A
 - NRC reviews all onsite emergency plans
 - FEMA reviews all offsite emergency plans

NRC/FEMA Review Cont.

- Existing reactors
 - If the application proposes to incorporate and extend elements of the existing emergency plan
 - The reviewer determines if the information provided is applicable to the proposed reactor, current, reflects use of the site for construction, and incorporates the new reactor into the existing emergency plans

NRC/FEMA Review Cont.

- “Greenfield” sites
 - Applicant and State and local authorities must develop emergency plans to be submitted for review and approval

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