



# New Reactor Licensing Process and Expectations

U.S. Nuclear Regulatory Commission  
Division of Preparedness and Response  
NREP 2007

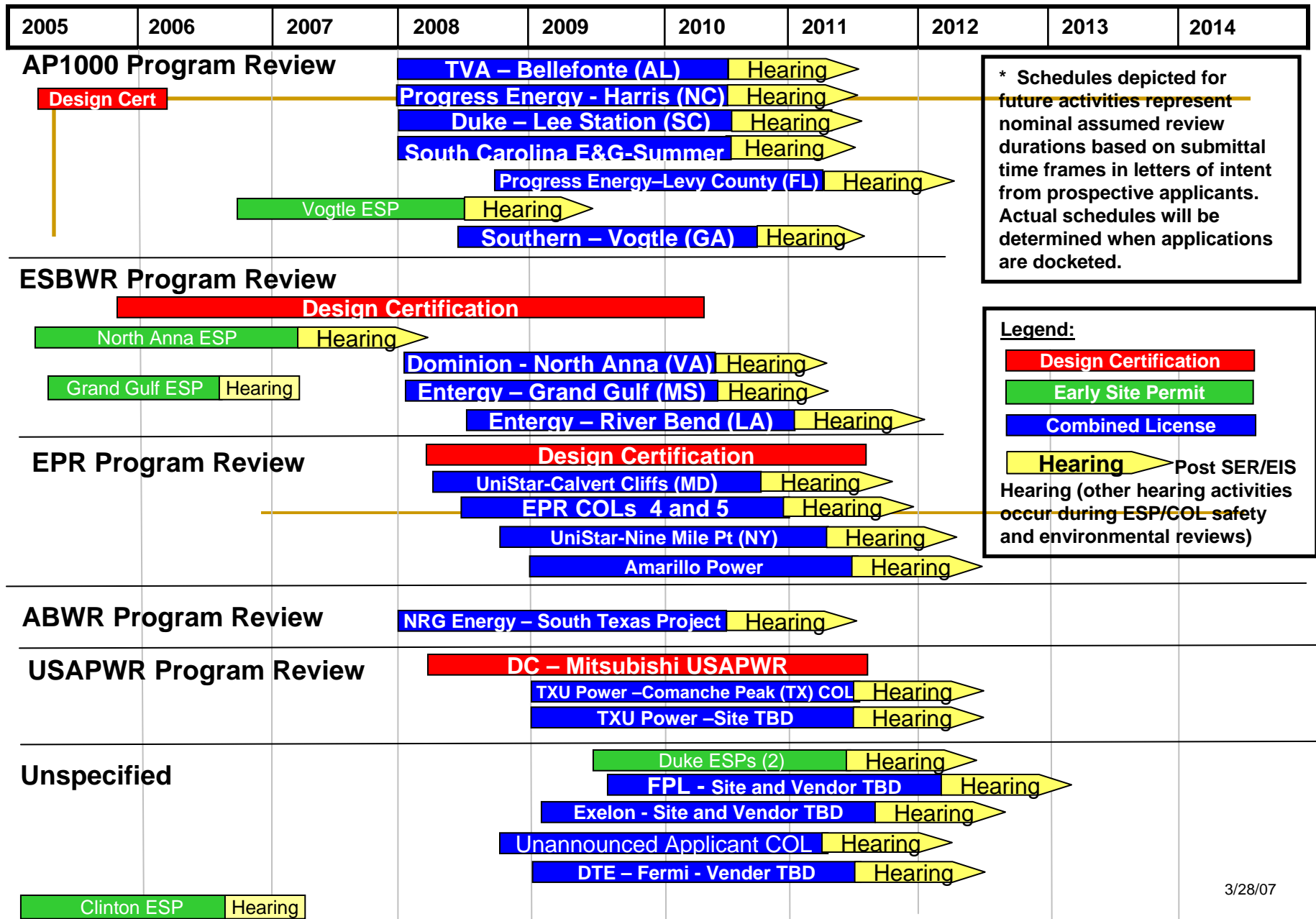
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- Energy Policy Act of 2005 (EPAct) paves the way for decisions to build new advanced light water reactor nuclear plants
  - Significant stakeholder interest, including Congress
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# New Reactor Licensing Applications

An estimated schedule by Fiscal Year



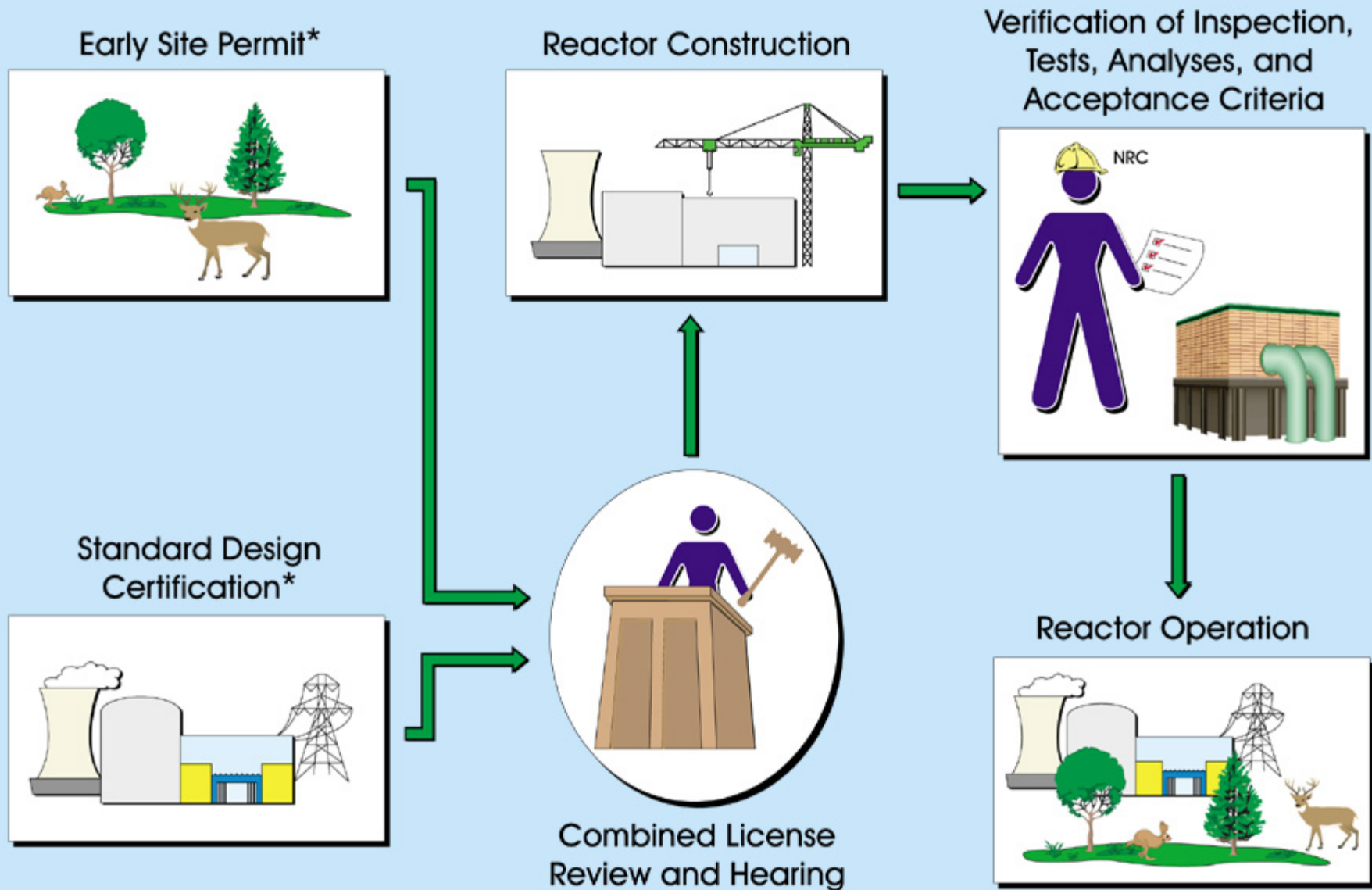
\* Schedules depicted for future activities represent nominal assumed review durations based on submittal time frames in letters of intent from prospective applicants. Actual schedules will be determined when applications are docketed.

**Legend:**

- Design Certification
- Early Site Permit
- Combined License
- Hearing

Post SER/EIS Hearing (other hearing activities occur during ESP/COL safety and environmental reviews)

# Combined Licenses, Early Site Permits, and Standard Design Certifications





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## NRC/FEMA REVIEW

- 10 CFR Part 52 – alternative licensing process

Established in 1989

- Essentially the same information as Part 50 (NUREG-0654)
  - Combines Construction Permit & Operating License with Conditions for Plant Operation – Combined License (COL)
  - Early Site Permit
  - Design Certification
  - Specify Applicant Inspection, Tests, Analysis and Acceptance Criteria (ITAAC) (must be met prior to loading fuel)
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## NRC/FEMA REVIEW

- FEMA will review all offsite emergency plans
  - Existing reactors
    - If the application proposes to incorporate and extend elements of the existing emergency plan
      - The reviewer will determine 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
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## NRC/FEMA REVIEW Cont'd

- If a greenfield site, the applicant and State and local authorities will have to develop emergency plans to be submitted for review and approval.
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## Impact on States

For COLs and ESPs (if complete and integrated plans)

The affected State needs to provide the applicant Certifications that state:

- (A) EP Plans are practicable
  - (B) Commitment to further develop plans including field demonstrations
  - (C) Commitment to execute responsibilities
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## Summary

- We anticipate several new reactor licensing applications beginning in Fall 2007
  - The process allows for stakeholder input
  - The applicant and State and locals need to coordinate emergency plans
  - NRC and FEMA will partner to review an application
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**NRC POC-Daniel M. Barss**

**[DMB1@NRC.GOV](mailto:DMB1@NRC.GOV)**

**301-415-2922**

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