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## **New Reactors**

**Regional Scheduling Meeting  
NRC Region I  
Atlantic City, NJ  
December 6, 2007**

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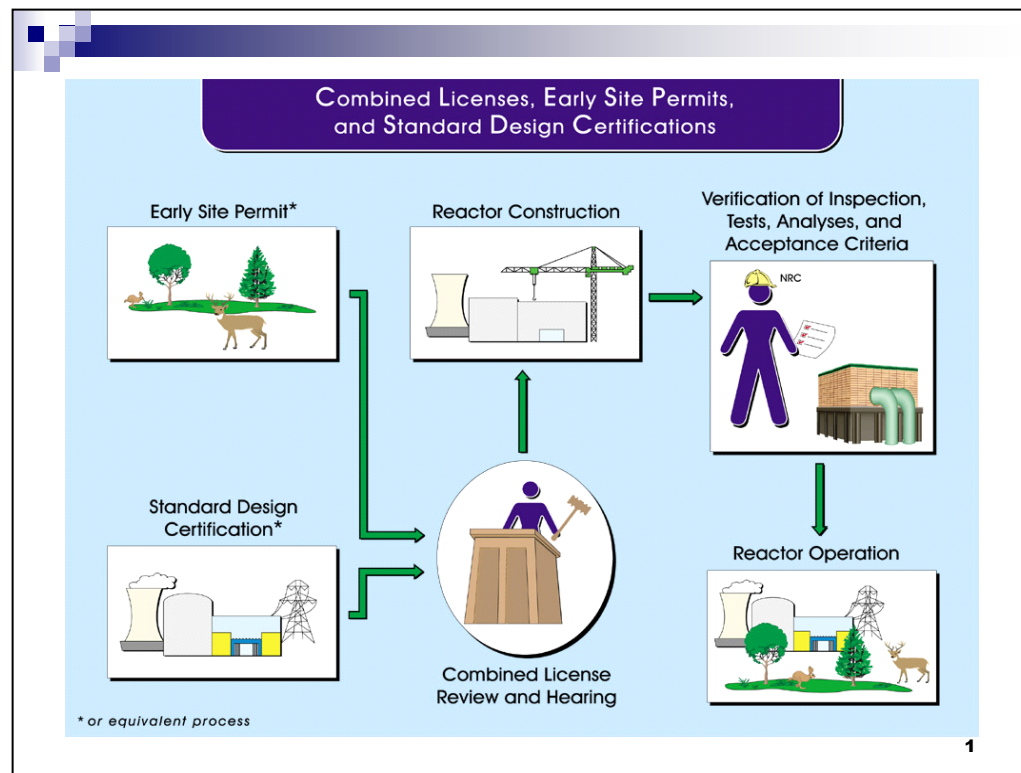


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## **New Reactors: License Infrastructure Development**

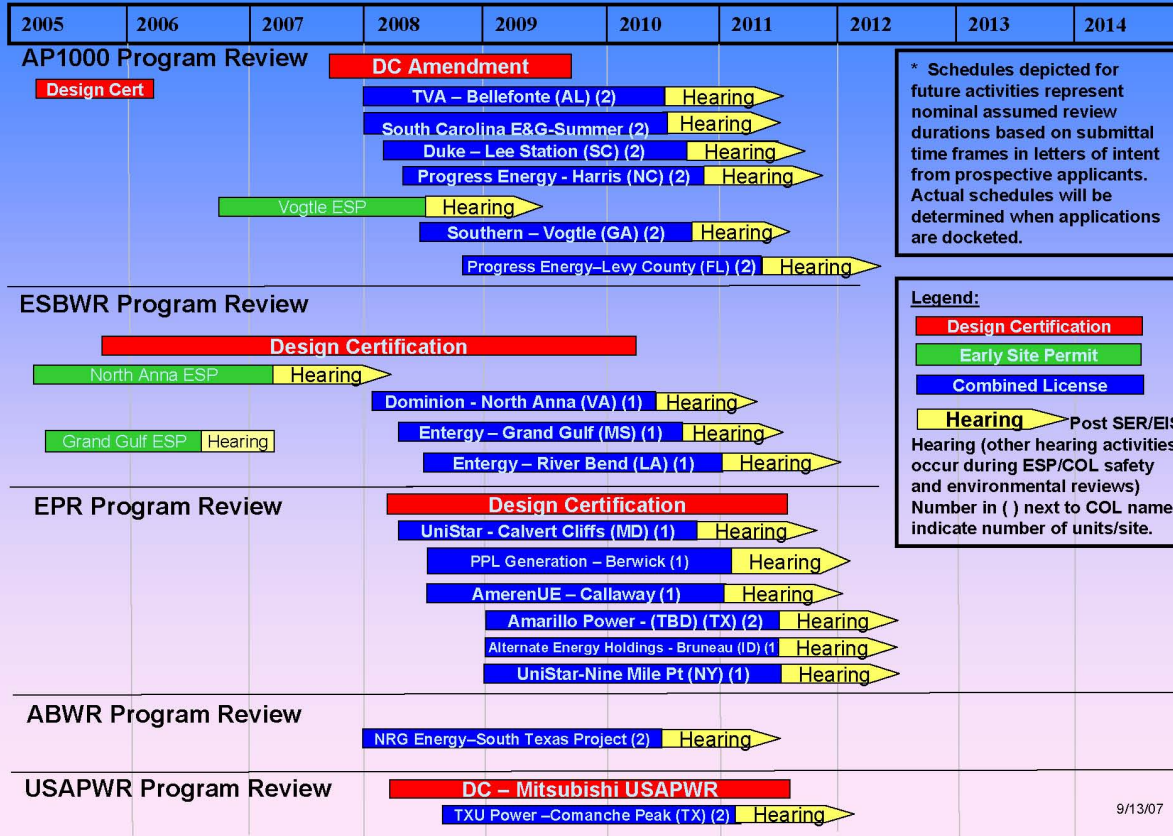
- Updated Regulations
  - Updated Guidance documents
  - COL Review “EP Template”
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# Abbreviated Process

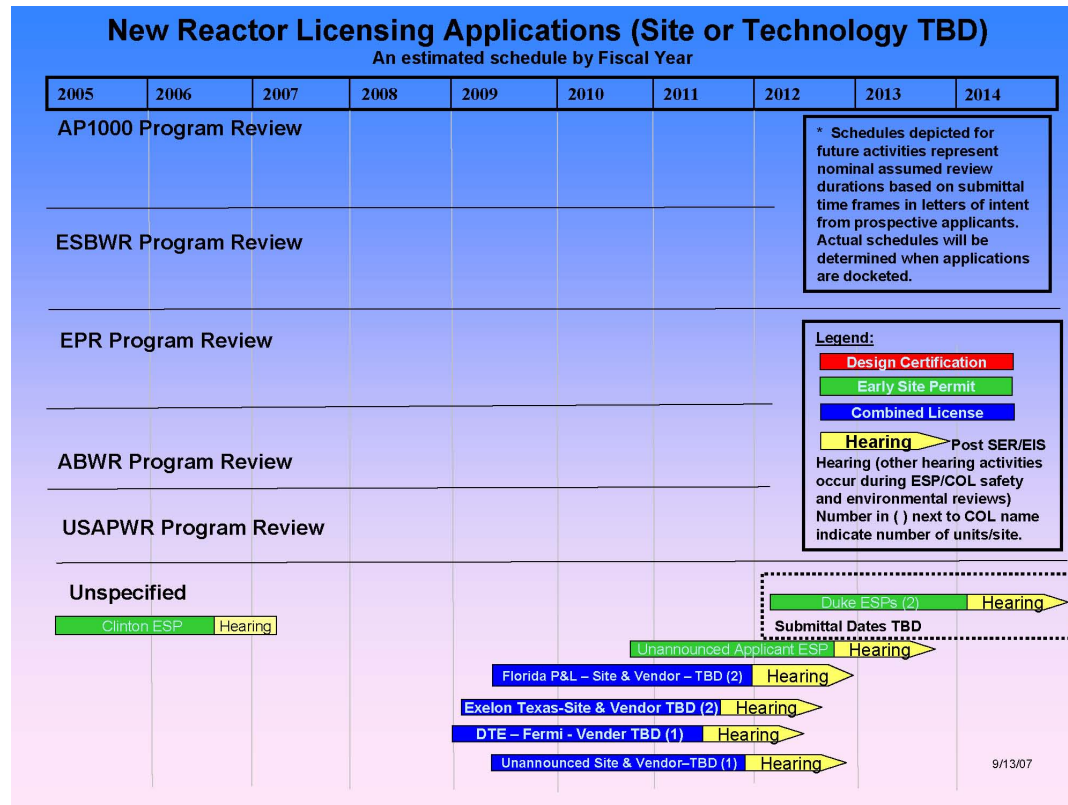


## New Reactor Licensing Applications (Site and Technology Selected)

An estimated schedule by Fiscal Year



# Project Timelines Cont'd





## • Expected Applications

- 2007 5-applications & 9 units
- 2008 14 applications & 20 units
- 2009 2 applications & 3 units

## • Current Total

- 21-applications
- 32-units

Expected New Nuclear Power Plant Applications Updated October 11, 2007				
Company	Design Type	Site Under Consideration	State	Existing Operating Plants
<b>CY 2007 Applications</b>				
Duke	AP1000	William Lee Nuclear Station (2 units)	SC	N
NuStart Energy	AP1000	Bellefonte (2 units)	AL	N
Dominion	ESBWR	North Anna (1 unit)	VA	Y
South Carolina Electric & Gas	AP1000	Summer (2 units)	SC	Y
NRG Energy	ABWR	South Texas Project (2 units)	TX	Y
<b>2007 TOTAL NUMBER OF APPLICATIONS = 5 TOTAL NUMBER OF UNITS = 9</b>				
<b>CY 2008 Applications</b>				
Progress Energy	AP1000	Harris (2 units)	NC	Y
Progress Energy	AP1000	Levy County (2 units)	FL	N
Southern Nuclear Operating Co.	AP-1000	Vogtle (2 units)	GA	Y
Entergy	ESBWR	River Bend (1 unit)	LA	Y
NuStart Energy	ESBWR	Grand Gulf (1 unit)	MS	Y
UNISTAR	EPR	Calvert Cliffs (1 unit)	MD	Y
PPL Generation	EPR	Berwick (1 unit)	PA	Y
AmerenUE	EPR	Callaway (1 unit)	MO	Y
UNISTAR	EPR	Nine Mile Point (1 unit)	NY	Y
TXU Power	US APWR	Comanche Peak (2 units)	TX	Y
Exelon	TBD	TBD (2 units)	TX	UNK
Detroit Edison	TBD	Fermi (1 unit)	MI	Y
Amarillo Power	EPR	Vicinity of Amarillo (2 units)	TX	UNK
Alternate Energy Holdings	EPR	Bruneau (1 unit)	ID	N
<b>2008 TOTAL NUMBER OF APPLICATIONS = 14 TOTAL NUMBER OF UNITS = 20</b>				
<b>CY 2009 Applications</b>				
Florida Power & Light	TBD	TBD (2 units)	UNK	UNK
Unannounced	TBD	TBD (1 unit)	UNK	UNK
<b>2009 TOTAL NUMBER OF APPLICATIONS = 2 TOTAL NUMBER OF UNITS = 3</b>				
<b>2007 – 2009 Total Number of Applications = 21 Total Number of Units = 32</b>				



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## Impact on States

- Partnership with FEMA is *critical* for New Reactors
  - The affected State needs to provide the applicant Certifications that state:
    - EP Plans are practical
    - Commitment to further develop plans including field demonstrations
    - Commitment to execute responsibilities
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## “Existing Site” vs. “Greenfield Site”

- COL/ESP (complete and integrated plan) must submit State and local emergency plans. Existing Sites:
  - Applicable to the New Reactor Site
  - Updated to reflect additional unit
  - Reflect the use of proposed Site for new reactors
  
- If a Greenfield site, State and local emergency plans will have to be developed and submitted with the application.





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## Conclusions

- Potential for extensive growth in the industry
  - Most proposed reactors will be in the Southeast
  - Review involves substantial coordinated efforts with FEMA
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## Questions

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