



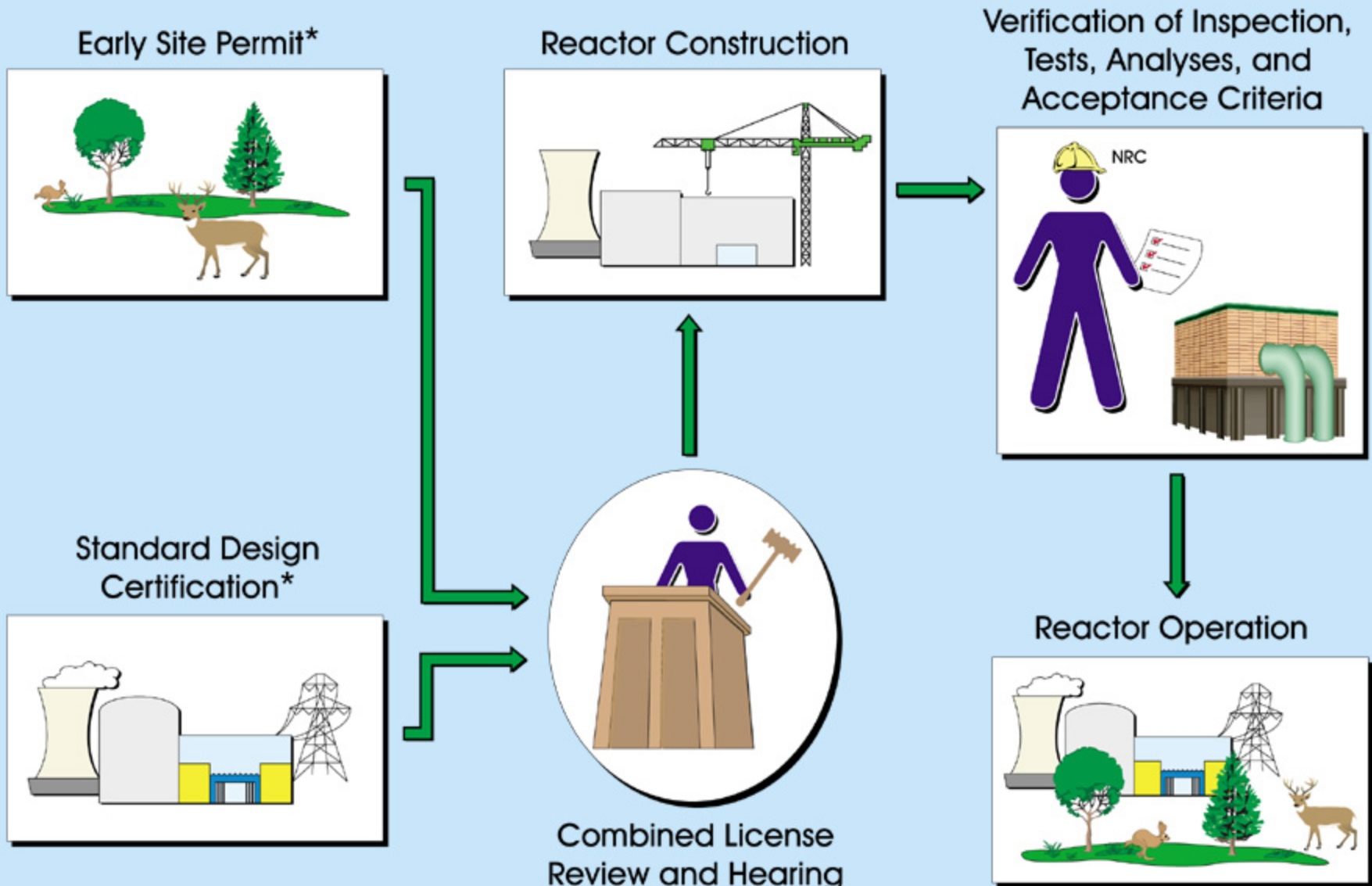
**NREP 2009**  
**Emergency Preparedness and the New**  
**Reactor Licensing Process:**  
**An Update on Where We Are Now**

Dan Barss  
Division of Preparedness & Response  
Office of Nuclear Security & Incident  
Response  
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# New Reactor Licensing Process

- The video is available on the NRC's Public Website at the following address:  
<http://video.nrc.gov/NrcMediaPlayer.cmf?EVNum=378>

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



# Applicants Responsibilities

- Submit applicable application material to include:
  - Emergency plans
    - Onsite
    - Offsite (State and local) 10 & 50 Mile EPZs
  - Evacuation Time Estimate
  - Inspection, Test, Analysis, and Acceptance Criteria (ITAAC) (must be met prior to loading fuel)
- See Regulatory Guide 1.206

# Applicants Responsibilities

- Submit Certifications from State and local governmental agencies that:
  - Emergency Plans are practicable
  - Commitment to further develop plans including field demonstrations
  - Commitment to execute responsibilities
- Respond to Requests for Additional Information (RAIs)
- Update application as needed

## Scope of NRC Review

- 16 Planning Standards of 10 CFR 50.47
- Requirements of 10 CFR 50 Appendix E
- Regulatory Guide 1.101
  - NUREG-0654/FEMA-REP-1, Rev 1
  - Other applicable NUREGs
- See Standard Review Plan (NUREG-0800)

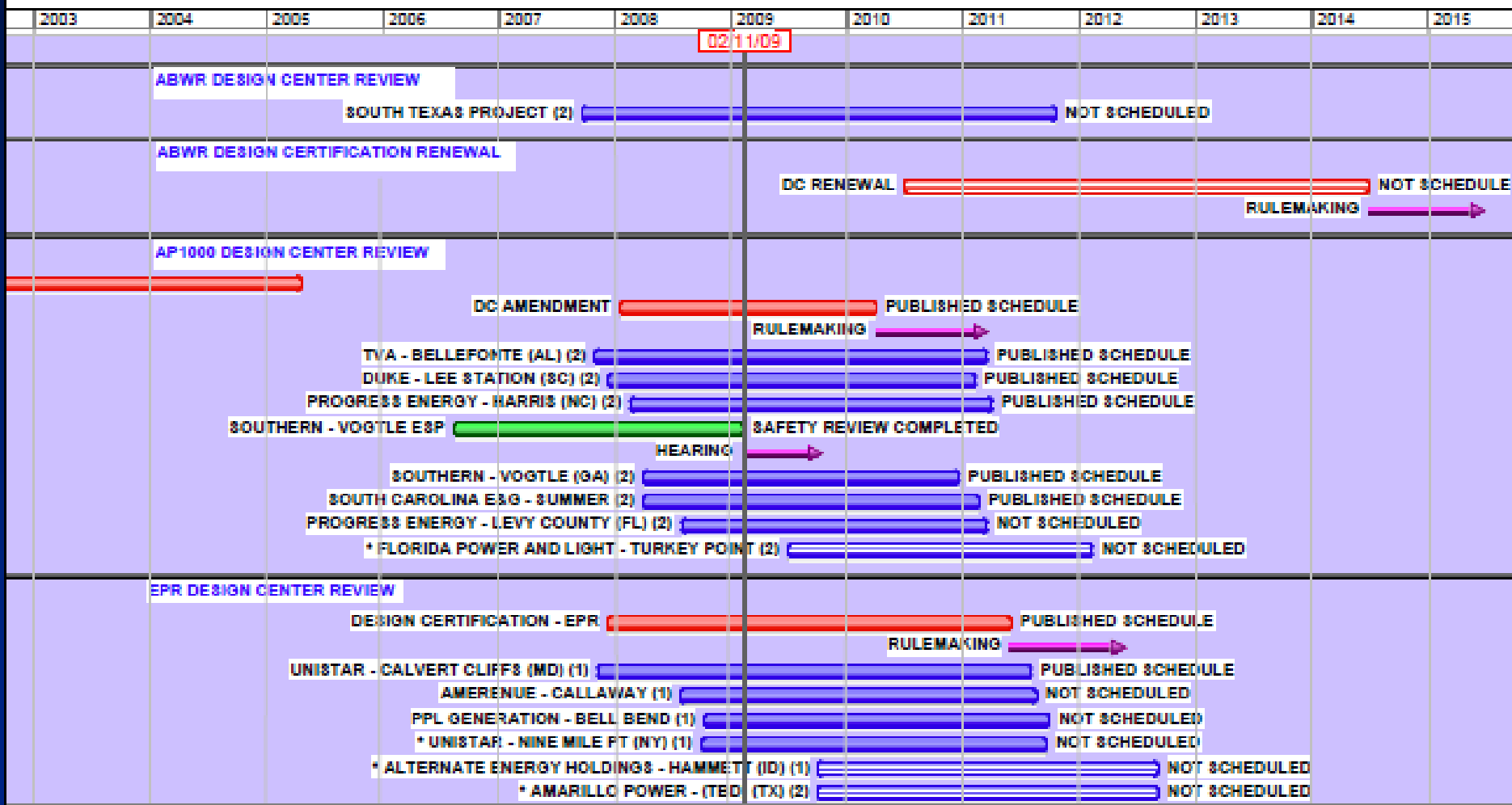
## Scope of NRC Review: Existing Reactors

- If application proposes to incorporate and extend elements of existing emergency plan, then reviewer will determine if information provided is:
  - applicable to proposed reactor
  - current
  - reflects use of site for construction of a new reactor and appropriately incorporates new reactor into existing emergency plans

# Status of Applications

## New Reactor Licensing Applications

Schedules by Calendar Year

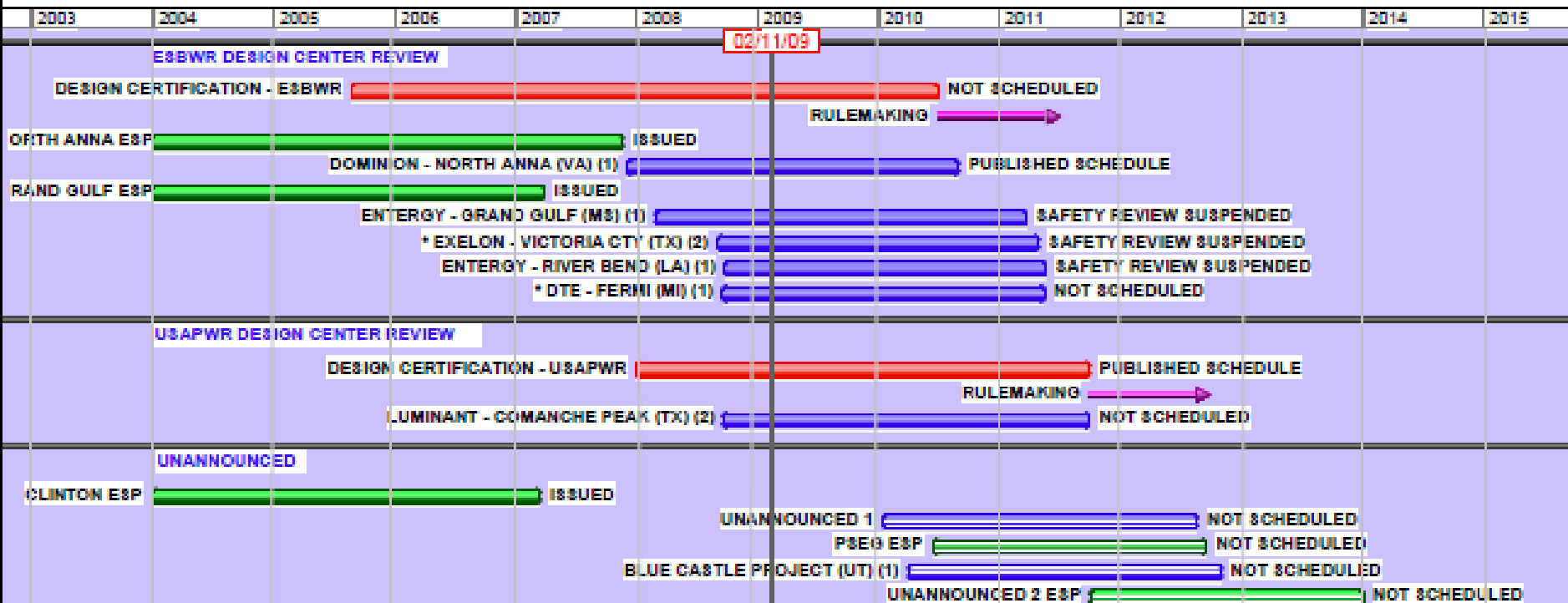




# Status of Applications (cont'd)

## New Reactor Licensing Applications

Schedules by Calendar Year



NOTE: Schedules depicted for future activities represent nominal assumed review durations based on submittal time frames in letters of intent from prospective applicants. Actual schedules based on schedules shown on NRC public web pages.

**Legend**

Combined License

Received   
Projected 

Rulemaking / Hearing 

Design Certification 

Early Site Permit 

Numbers in ( ) next to COL name indicate number of units/site.  
The acceptance review is included at the beginning of the COL reviews.  
\* Addressed in NRC Fiscal Year 2009 Budget (NUREG-1100, Vol-24, pg. 24).

# Status of Applications (cont'd)

Expected New Nuclear Power Plant Applications Updated February 4, 2009						
Company*	Date of Application	Design	Date Accepted	Site Under Consideration	State	Existing Operating Plant
<b>Calendar Year (CY) 2007 Applications</b>						
NRG Energy (52-012/013)***	09/20/2007	ABWR	11/29/2007	South Texas Project (2 units)	TX	Y
NuStart Energy (52-014/015)***	10/30/2007	AP1000	01/18/2008	Bellefonte (2 units)	AL	N
UNISTAR (52-016)***	07/13/2007 (Envir.) 03/13/2008 (Safety)	EPR	01/25/2008 06/03/2008	Calvert Cliffs (1 unit)	MD	Y
Dominion (52-017)***	11/27/2007	ESBWR	01/28/2008	North Anna (1 unit)	VA	Y
Duke (52-018/019)***	12/13/2007	AP1000	02/25/2008	William Lee Nuclear Station (2 units)	SC	N
2007 TOTAL NUMBER OF APPLICATIONS = 5 TOTAL NUMBER OF UNITS = 8						
<b>Calendar Year (CY) 2008 Applications</b>						
Progress Energy (52-022/023)***	02/19/2008	AP1000	04/17/2008	Harris (2 units)	NC	Y
NuStart Energy (52-024)***	02/27/2008	ESBWR	04/17/2008	Grand Gulf (1 unit)	MS	Y
Southern Nuclear Operating Co. (52-025/026)***	03/31/2008	AP1000	05/30/2008	Vogtle (2 units)	GA	Y
South Carolina Electric & Gas (52-027/028)***	03/31/2008	AP1000	07/31/2008	Summer (2 units)	SC	Y
Progress Energy (52-029/030) ***	07/30/2008	AP1000	10/06/2008	Levy County (2 units)	FL	N
Ewelon (52-031/032)***	09/03/2008	ESWBR	10/30/2008	Victoria County (2 units)	TX	N
Detroit Edison (52-033)***	09/18/2008	ESBWR	11/25/2008	Fermi (1 unit)	MI	Y
Luminant Power (52-034/035)***	09/19/2008	USAPWR	12/2/2008	Comanche Peak (2 units)	TX	Y
Entergy (52-036)***	09/25/2008	ESBWR	12/4/2008	River Bend (1 unit)	LA	Y
AmerenUE (52-037)***	07/24/2008	EPR	12/12/2008	Callaway (1 unit)	MO	Y
UNISTAR (52-038)***	09/30/2008	EPR	12/12/2008	Nine Mile Point (1 unit)	NY	Y
PPL Generation (52-039)***	10/10/2008	EPR	12/19/2008	Bell Bend (1 unit)	PA	Y
2008 TOTAL NUMBER OF APPLICATIONS = 12 TOTAL NUMBER OF UNITS = 18						
<b>Calendar Year (CY) 2009 Applications</b>						
Florida Power and Light (763)		AP1000		Turkey Point (2 units)	FL	Y
Amarillo Power (752)		EPR		Vicinity of Amarillo (2 units)	TX	UNK
Alternate Energy Holdings (765)		EPR		Hammett (1 unit)	ID	N
2009 TOTAL NUMBER OF APPLICATIONS = 3 TOTAL NUMBER OF UNITS = 5						
<b>Calendar Year (CY) 2010 Applications</b>						
Blue Castle Project		TBD		Utah	UT	N
Unannounced		TBD		TBD	TBD	UNK
2010 TOTAL NUMBER OF APPLICATIONS = 2 TOTAL NUMBER OF UNITS = 2						
<b>Calendar Year (CY) 2011 Applications</b>						
No Letters of Intent have been received from applicants expressing their plans to submit new COL applications in CY 2011.						
2007 – 2011 Total Number of Applications = 22 Total Number of Units = 33						
*Project Numbers/Docket Numbers	**Yellow – Acceptance Review Ongoing		***Blue – Accepted/Docketed			

## Lessons Learned

- Ensure current copy of Offsite emergency plans are included in application
- Revised RAI flow path for Offsite RAIs

# Contact

Daniel M. Barss

301-415-2922

[Dan.Barss@nrc.gov](mailto:Dan.Barss@nrc.gov)