

# **New Nuclear Plant Licensing Activities**

Industry NRC Briefing  
November 21, 2005

# Companies Participating

- Southern Nuclear Operating Company
- Dominion Generation
- NuStart/Exelon Nuclear
- Duke Power Company
- Entergy Nuclear
- Progress Energy

# Industry Topics

- Insights from exercising the Early Site Permit (ESP) process
- Combined Operating License (COL) implementation process
- Standardized applications
- Regulatory stability

# ESP Insights

- 40 month review is too long
- Lessons learned document in 2006
- Improve process to achieve a schedule similar to COL SER issuance
  - Environmental review
  - Emergency Preparedness
- Dominion COL application will reference ESP

# COL Implementation

- Good progress
- Attain common understanding on generic issues early next year
- High degree of design standardization
- Standardized COL applications
- Potential for NRC to adopt team approach for reviews

# NuStart and AP1000

- Duke is the NuStart lead on AP1000
  - Identical methodologies, analyses and text
  - Deviations flagged for review
- Team approach – not application-by-application
- Resolve many design certification open items during pre-application period
- SER issued in 15 months

# **Need For Stability In The New Licensing Process**

- Need certainty that rework will not be required just prior to submittal
- Part 52 is workable, although not perfect
- Rulemaking will be required, but now is not the time for a Part 52 change
- Save valuable staff work for future use
- Only implement conforming changes and corrections

# **Enablers of New Reactor Licensing**

- Safe and reliable operation of existing nuclear plants
- Excellence in safety, security, and preparedness
- Excellence in licensing submittals
- Effective use of risk insights
- High quality, complete COL applications



# Regulatory Stability

- NRC should be commended for efforts to build a sound regulatory framework
- Effective use of design certification and early site permit processes
- Industry is now moving forward with COL applications
- Part 52 rulemaking should be limited in scope in recognition of ongoing activities

# Expectations

- Stability in the Part 52 process
- Standardized approach to COL applications and review
- Continuing Commission oversight
- High quality applications and timely reviews
  - COL SER issued in 15 months
  - Improve ESP process and environmental review to achieve similar schedule