

# New Nuclear Plants Industry Needs and Plans

**NRC Regulatory Information Conference**

**March 13, 2007**

**Adrian Heymer, NEI**

**([aph@nei.org](mailto:aph@nei.org), 202-739-8094)**



NUCLEAR  
ENERGY  
INSTITUTE

# Industry Needs

- **Need for base-load generation**
  - **292 GW by 2030**
- **Predictable & stable licensing process**
  - **Extensive industry & NRC resources being applied**
  - **Common understanding on implementation of Part 52**
- **Reduce time-to-market post first-of-class**
  - **Current 120+ months**
  - **LWR Target –78 months announcement to operations**
    - **The key – *Standardization***

# Standardization

- **Standard certified designs**
- **Improve efficiency and effectiveness of license preparation, NRC and public review**
- **Common applications ex-site specific**
  - 65 – 90 percent standardization
  - Design-Centered Working Groups
- **Beyond reference plant majority of NRC reviews can be focused on consistency**

# Opportunities for Improvements

- **Environmental Report**
  - **Strong candidate for process improvement**
  - **Need for a more effective and efficient review process consistent with NEPA**
- **Implement changes to mirror license renewal process improvements**
- **Other potential improvements**
  - **Early submittal of ER supplement or report**
  - **Earlier and more intensive pre-applications interactions**

# Near Term Activities & Plans

- **Industry expending over \$2 billion**
- **Three ESPs this year**
  - **Vogtle – under review**
  - **Three other companies considering ESPs**
- **Too early to discard ESP process**
- **Four designs**
  - **Change process to address impact from construction interferences & detailed design**

# Near Term Activities & Plans

- **20+ COL applications being prepared**
  - **Focus & attention on complete quality applications**
  - **Land clearing 2008/9 -- Operational 2015**
- **Generic focus now moving towards construction, inspection & COL implementation**
- **Integrated used fuel management**