New Reactor Licensing Activities - Update

NRC Commission Briefing by
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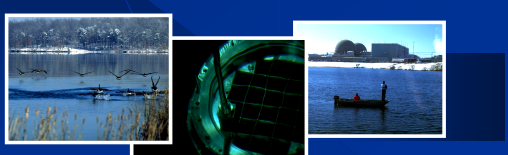
Dominion



Dominion ESP Project Objectives

- Maintain the nuclear option
- Evaluate advanced reactor technologies
- Demonstrate the Part 52 licensing process

Nuclear Option

- NEI Plan to Enable New Nuclear Business Decisions (Vision 2020)
  - NEI New Plant Executive Task Force
  - Early Site Permitting Task Force
  - Part 52 Task Force
- DOE's "Nuclear Power 2010" initiative
- Industry new generation advisory committees and boards

Reactor Technologies

- Currently evaluating a variety of
  - Evolutionary light water reactor designs
  - Advanced modular gas and water-cooled reactor designs
- Dominion has not selected a preferred technology

Accomplishments

- Completed Dominion sites feasibility study
- Selected North Anna as preferred ESP demo site
- Informed NRC of intent to apply for ESP
- Received DOE award (co-funding) to evaluate feasibility of federal sites
- Submitted proposal for DOE co-funding to support North Anna ESP application

Current Activities

- Preparing North Anna ESP application
- Evaluating feasibility of selected DOE sites
- Continuing to evaluate reactor technologies

Challenges

- Obtaining NRC approvals in timeframes that support business decision-making
- Reducing uncertainty to enable business decisions
- Developing and using guidance specific to the ESP process
- Maintaining good communications with all stakeholders

NRC Review Schedule

- Leveraging NRC familiarity with existing site
  - NRC has inspected the North Anna site for three decades
  - Recent licensing actions contribute to the staff's institutional knowledge and public record
    - North Anna ISFSI
    - North Anna license renewal
- NRC needs to have appropriate and adequate review resources

ESP Target Schedule

- NRC review activities, products, and processes under Part 52 have parallels in license renewal
  - Environmental impact statement
  - Safety evaluation report
  - Opportunities for public involvement
  - Opportunities for hearings

Target Schedule

- NRC performance has consistently bested its license renewal schedules
- NRC can achieve similar performance in ESP process

NRC Activity	NRC License Renewal Schedule	Proposed ESP Target Schedule
Issue SER	17 to 20 Months	18 Months
Issue EIS	16.5 to 19 Months	18 Months
Hearing	2 to 7 Months	2 Months
	Overall ESP Target Schedule	20 to 25 Months

- Detailed schedule comparison provided to NRC staff

NRC Guidance

- Substantial portions of existing guidance are difficult to effectively and efficiently utilize
  - Dated, and/or founded in the Part 50 process
  - Tends to assume the reactor technology is known
  - Intended as staff guidance, but used by industry
  - Written to support other licensing actions
- Applicants will work with staff to revise guidance
- Industry should benefit through reduced NRC fees for first-wave applicants

Communications

- Maintaining commonality with other announced ESP applicants
  - Improve efficiency and effectiveness
  - Reduce NRC review time
  - Coordinate through NEI
- Fostering early interaction with NRC staff
  - Senior management forum
  - Joint kick-off meeting
  - Common technical issues meetings
- Keeping stakeholders informed
  - Support NRC near-site public meetings at appropriate times

Looking Ahead

- At the threshold
- Much accomplished. Much to do
- Common industry approach through NEI
- NRC and industry need to work together to ensure that every element of Part 52 is
  - Stable
  - Predictable
  - Timely