Status of New Reactor and Combined License Issues

Industry Briefing of NRC Commission

August 22, 2007



Industry Participants

- Marvin Fertel, Senior Vice President and Chief Nuclear Officer, NEI
- Christopher Crane, President and Chief Nuclear
 Officer, Exelon Nuclear
- Dave Christian, Senior Vice President and Chief
 Nuclear Officer, Dominion Generation



Discussion Topics

- Key policy issues
- COL issues
 - Completion of rulemakings and guidance
- Critical industry activities
- The next 12 months
 - Completion of near-term priorities



Key Policy Issues

- Publish Part 26 Rulemaking
- Issue Notice of Hearing after docketing each portion of an application
 - Facilitates the potential for earlier operational date
- Recognition of EP adequacy for a new unit at an existing operating site
- Affirm Waste Confidence position



COL Issues

- Outstanding progress over past 10 months
- Limited number of open issues requiring closure...
 - Access Authorization
 - Digital I&C
 - New QA process for effluents
 - Radiological Protection
 - ISI/IST
 - PRA
- Commission directed transparency & accountability in the hearing process



Completion of COL Related Rulemakings

Limited Work Authorization

- Will increase focus on safety-significant construction
- Foundation for earlier operational date

Aircraft Impact

- Industry peer review of evaluations
- Industry taking action in advance of the rule

Security -- §73.55

New designs incorporating insights from security evaluations on operating plants



Critical Industry Tasks

- Industry orientation on lessons learned from recent construction
- Supply Chain
 - Focus on quality
 - Expanding NUPIC activities
 - Preventing Counterfeit/substandard parts
 - Broadening number of qualified vendors
- Workforce
 - Prime focus on skilled craft
 - Regional workforce groups
 - Establishing partnerships with community colleges



Critical Focus Areas

- Preparation and review of COL and design certification applications
- Construction Inspection Program development
 - Defining the ITAAC closeout process
- Improving the environmental review process
- Next phase of regulatory guide updates
 - Rationale for making changes



Summary

- Predictability, open communications and quality applications are essential for success
- Industry priorities
 - COL and design certification applications
 - Construction inspection & closeout
 - Completion of rulemakings
 - Waste confidence
- Next 12 months are critical for credibility

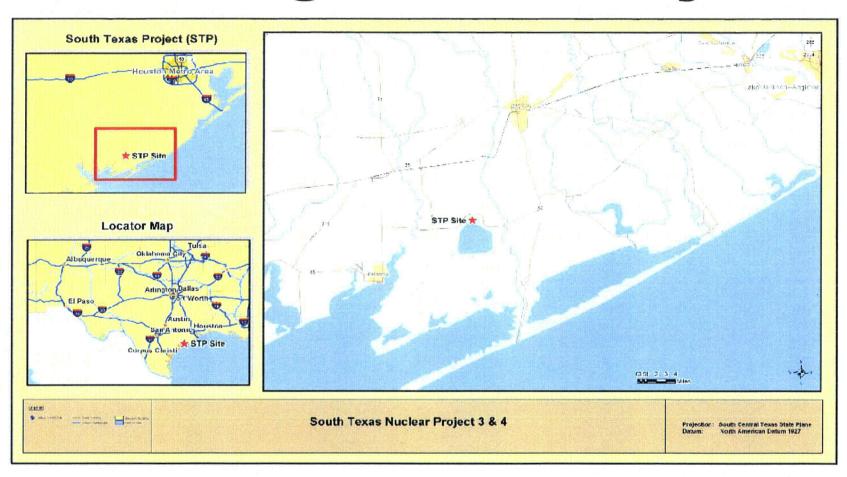




Impacts of New Nuclear Units in Matagorda County

August 22, 2007
Richard Knapik
Mayor of Bay City Texas

Matagorda County



Matagorda County

- Description
- Demographics
- Economy

Key Impacts

- Housing
- Schools
- Traffic
- Infrastructure

Benefits of New Plants

- Education
- High paying jobs
- Clean industry
- Economic growth
- Emergency Preparedness
- Corporate support for local needs

Wharton County Junior College Extension





STATUS OF NEW REACTOR ISSUES

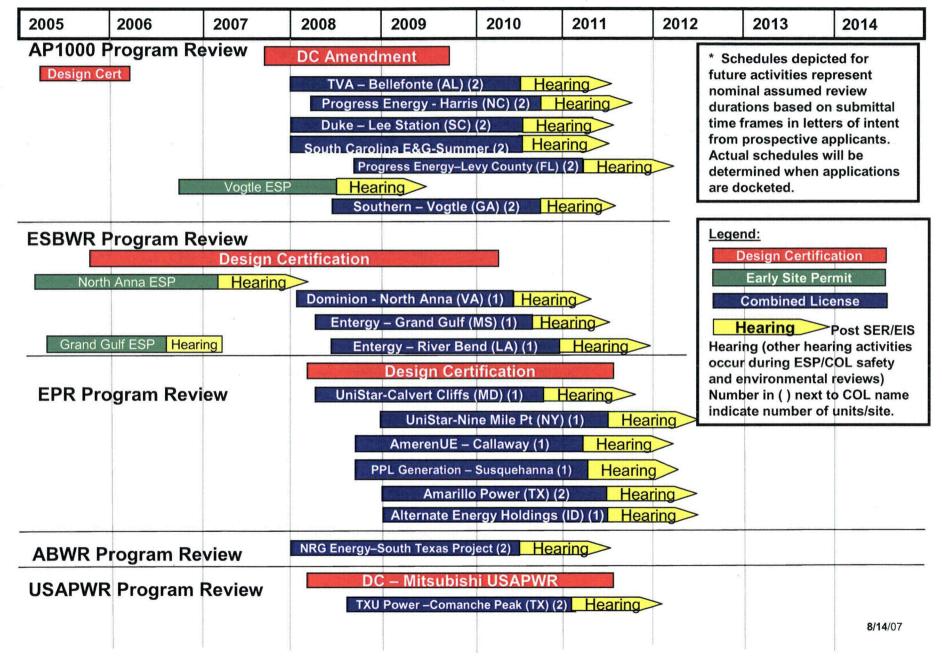
August 22, 2007
Luis Reyes
Executive Director for Operations

Agenda

- Overview of New Reactor Status
- Program Activities
- Reviewer Activities
- Stakeholder Interface

New Reactor Licensing Applications (Site and Technology Selected)

An estimated schedule by Fiscal Year



New Reactor Licensing Applications (Site or Technology TBD) An estimated schedule by Fiscal Year

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
AP1000	Program Ro	eview					n	* Schedules depicted for future activities represent nominal assumed review durations based on submittal time frames in letters of intent		
ESBWR Program Review			ř		7	ar a	A	from prospective applicants. Actual schedules will be determined when applications are docketed.		
EPR Pr	ogram Revie	Tam Review Legend: Design Certificatio Early Site Permit Combined License						ermit		
ABWR	Program Re	view					0	Hearing Post SER/EIS Hearing (other hearing activities occur during ESP/COL safety and environmental reviews) Number in () next to COL name indicate number of units/site.		
USAPV	VR Program	Review					N			
Unspe	cified on ESP Hear	ring				Unannounced /	Submit	Duke ESPs (2) tal Dates TBD	Hearing	
	,					nd Vendor - TBD			·	
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Infrastructure

- Contracting
- Licensing Program Plan
- Safety Evaluation Report Templates
- Rulemaking
 - Limited Work Authorization
 - -Part 52
 - Security

Pre-application Activities

- Outreach Meetings
- Quality Assurance Audits
- Pre-application Site Visits
- Pre-application Reviews and Interactions
 - Topical Reports
 - Design Centered Working Group Meetings

Reviewer Tools

- Acceptance Review Process
- Regulatory Guides/Standard Review Plan
- Technical Consistency Office Instruction
- Knowledge Management tools (e.g., Wizard)

Ongoing Technical Reviews

- Design Certifications
- Early Site Permits
- Pre-Application Activities
 - -Technical Reports
 - Early Engagement on Long Lead Time Items

Continued Focus Areas

- Resources
 - Critical skills-Hiring
 - Staff Development
 - Contracts
- Technical Issues
 - Digital Instrumentation and Controls
 - Seismic
 - Inspections, Tests, Analyses, and Acceptance Criteria
 - **Emerging Issues**

Security

- Interactions
 - External: Department of Homeland Security, the public, industry, and vendors
- Readiness
 - Licensing
 - Schedule input
 - Staffing

Emergency Planning

- Interactions
 - External: Federal Emergency
 Management Agency, the public, industry
- Readiness
 - Regulations & Guidance updated
 - Schedule
 - Staffing

Government to Government Interactions

- Federal
- State
- Local
- Tribal

Public Outreach Efforts

- Public Outreach Meetings
- Environmental Scoping Meetings
- Draft Environmental Impact Statement
- Technical Meetings
- Workshops

International Communications

- Multinational Design Evaluation Program
- Bi-lateral Meetings
- Interactions with Chinese Regulatory Agency

Conclusion

- Significant accomplishments
- Productive pre-application activities
- Enhancing program management
- Planning for contingencies