



One Step Licensing Process – How Is It Working So Far? An Industry Perspective

WM2008 Phoenix
February 28, 2008
R. W. Evans
Enercon Services, Inc.

Industry Accomplishments

- 4 ESP Applications submitted between 2003 and 2006
 - Dominion, North Anna site
 - Exelon, Clinton site
 - Entergy, Grand Gulf site
 - Southern, Vogtle site
- Formation of Design Centered Working Groups
- First partial COL application submitted in August of 2007 by Unistar, Calvert Cliffs site

Industry Accomplishments (cont)

- Six full COL applications submitted so far in 2007 and 2008
 - NRG South Texas Plant Units 3 and 4
 - TVA Bellefonte Units 3 and 4 in conjunction with NuStart Energy Development LLC
 - Dominion North Anna Unit 3
 - Duke Power William Lee Station
 - Progress Energy Shearon Harris
 - Entergy GGNS Unit 3 in conjunction with Nustart Energy Development LLC
- Numerous other potential applicants have announced they are considering new nuclear power projects

COL Applications for Nuclear Plants

FILED in 2007
4 Applications
7 Units

Filing Applications in
2008
15 Applications
22 units

Filing Applications in
2009
1 Application
2 units

Alternate Energy Holdings

Detroit Edison
Fermi 3

UniStar
Nine Mile

PPL Generation
Susquehanna

UniStar
Calvert Cliffs

AmerenUE
Callaway Unit 2

TVA
Watts Bar

Dominion
North Anna

Progress Energy
Harris

Duke
Lee Nuclear Station

TVA
Bellefonte
2 W
AP1000

SCE&G
V.C. Summer

Entergy
Grand Gulf

Southern
Vogtle

Amarillo Power
Greenfield

Progress Energy
Florida Plant
Greenfield

Florida Power and
Light
Turkey Point

TXU
Comanche Peak
3 and 4

Entergy
River Bend

Exelon
Greenfield

NRG
South Texas
Project
2 GE ABWRs

Industry Accomplishments (Cont)

- Revision to Design Certification for Westinghouse AP1000 submitted in May 2007
- Design Certification for Areva US-EPR submitted in December 2007
- Design Certification for Mitsubishi US-APWR submitted in December

How Is It Working So Far?

- NRC has accepted four COL applications for review
- NRC has accepted partial Constellation COL application for review
- NRC has accepted Westinghouse update to AP1000 Design Certification for review
- NRC has accepted Areva Design Certification Application for EPR for review
- NRC has established a review schedule for one COL application
- NRC has placed a partial hold on review of one COL application at the request of the applicant

How Is It Working So Far?

- NRC acceptance review process is working within the established 60 day target
- Application review scheduling has some challenges
- Industry and NRC are working together to apply new regulatory guidance
- Some implications of changes in NRC regulations are still being sorted out

Challenges in NRC Licensing Review

- Meeting aggressive schedules for review
- Completing licensing review when detailed design is in progress
- Completing parallel review of COL applications and Design Certification
- Utilizing the Early Site Permits that have been approved by the NRC

The Next Five Years

- Submittal of additional COL applications
- Announcements of additional plans for new nuclear plants
- Formal orders with reactor technology vendors for delivery of plants
- NRC issuance of the first round of licenses
- Initiation of plant construction