

New Plant Deployment -- Major Regulatory Milestones to Construction

December 8, 2004



New Nuclear Power Plant Deployment

- Electricity generating forecasts identify need for new base-load generation post 2010
- Nuclear is considered a potential base-load option
 - High safety and operating performance of existing US nuclear plants
 - Growing uncertainty over environmental requirements
 - High natural gas prices
- Regulatory certainty and stability are critical
 - Need to demonstrate new licensing process
 - Low confidence in licensing process based on past new plant licensing performance
 - Major inhibitor in decision-making process

Government-Industry Initiative NP 2010

- Designed to enhance confidence in regulatory process by demonstrating
 - Early site permit process
 - New combined licensing process
- Establish conditions that would enable new nuclear plant construction to start in 2010
- Essential step in progression to next generation of nuclear plants and a hydrogen economy infrastructure

Major Milestones to Construction

- Submit Draft COL Application Guidance -- 2004
- Resolve generic COL issues – 4Q-2005
- Revised Part 52 issued – 4Q-2005
- Start work on COL application(s) -- 1Q-2006
- Pre-COL Application interactions – 2006/7
- Decision on COL application 2007/1Q-2008
- COL SER issued -- 2Q-2009
- Hearings & COL Decision -- 2009
- Start Construction -- 2010

Critical Path -- Revision to Part 52

- COL Application preparations must start early 2006 to meet NP 2010 objectives
- Need for stability in regulatory process prior to starting work on COL application
 - Revised Part 52 before end of 2005
- COL issues need to be resolved prior to starting work on COL application
 - NRC endorsement on NEI 04-01 and a common understanding on the COL issues attained by end of 2005

ID	Task Name	2005				2006				2007				2008				2009				2010		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2																
1	AP 1000 Cert.	██████████																						
2	AP 1000 Cert	██████████																						
3	Part 52 Rule	██████████																						
4	Part 52 Revised Rule	██████████																						
5	ESP Issued																							
6	ESPs Issued																							
7	COL Guidance	██████████																						
8	Draft D Submitted																							
9	Submit Draft E					██████████																		
10	Submit Draft F									██████████														
11	Final NRC review													██████████										
12	COL Prep					██████████																		
13	COL Preparation					██████████																		
14	Pre-application Discussions									██████████														
15	COL Submittal													██████████										
16	NRC COL Review													██████████										
17	COL Review													██████████										
18	NRC SER																	██████████						
19	Hearing & COL Decision																	██████████						
20	NRC Hearing																	██████████						
21	ASLB Decision																	██████████						
22	COL Issuance																	██████████						
23	Start Construction																					██████████		
24	ESBWR DC Submittal	██████████																						
25	ESBWR DC Submittal	██████████																						
26	ACR-700 DC Submittal	██████████																						
27	ACR DC Submittal	██████████																						
28	Additional ESP Appl'ns					██████████																		
29	Additional ESP Appl'ns					██████████																		
30	ANPR New Reg. Framework					██████████																		
31	ANPR New Reg. Framework					██████████																		
32	Approx DC Cert Appl'ns									██████████														
33	PBMR DC Appl'n									██████████														
34	PBMR DC Appl'n									██████████														
35	Areva EPR DC Appl'n													██████████										
36	Areva EPR DC Appl'n													██████████										
37	Westinghouse IRIS DC Appl'n																	██████████						
38	Westinghouse IRIS DC Appl'n																	██████████						

COL Application Issue Resolution

- Expedite resolution of issues identified to date in parallel with NEI 04-01 review
 - Periodic review & status meetings starting in February 2005
 - Second draft of NEI 04-01 to NRC by 8/2005 incorporating preliminary understandings
 - Additional adjustments as determined by language in final Part 52 rule & from second NRC review
 - ◆ Clarifications