

Quick Statistics

Early Site Permits issued	3
Permits under review	1
Total COL applications submitted	9
COL applications docketed	8
Certified reactor designs	2
Reactor designs under review	4
Expected license applications	23
Expected number of reactors	34
Announced plant locations	20
Companies applying for COL	20

Number of Planned Reactors (34)



Status of License Applications (23)



Announced Nuclear Locations

- Bellefonte (AL)—Tennessee Valley Authority
- Elmore County (ID)—Alternate Energy Holdings
- Callaway (MO)—AmerenUE
- Calvert Cliffs (MD)—UniStar
- Clinton (IL)—Exelon
- Comanche Peak (TX)—Luminant (formerly TXU)
- Fermi (MI)—DTE Energy
- Grand Gulf (MS)—Entergy
- Shearon Harris (NC)—Progress Energy
- Levy County (FL)—Progress Energy
- Nine Mile Point (NY)—UniStar
- North Anna (VA)—Dominion Energy
- River Bend (LA)—Entergy
- South Texas Project (TX)—STP Nuclear
- V.C. Summer (SC)—SCE&G
- Susquehanna (PA)—PPL
- Turkey Point (FL)—Florida Power & Light
- Victoria County (TX)—Exelon Generation
- Vogtle (GA)—Southern Nuclear
- William States Lee III (SC)—Duke Energy

Vendor Technology Under Consideration

General Electric

- Advanced Boiling Water Reactor (ABWR), 1,356 MWe (*certified 10CFR52 App A*)
- Economic Simplified Boiling Water Reactor (ESBWR), 1,560 MWe

Westinghouse

- Advanced Passive Pressurized Water Reactor (AP1000), Twin units 1,117 MWe each (*certified 10CFR52 App D*)

AREVA

- United States Evolutionary Pressurized Water Reactor (US EPR), 1,600 MWe

Mitsubishi Heavy Industry

- United States Advanced Pressurized Water Reactor (US APWR), 1,700 MWe



U.S. Department of Energy
Office of Nuclear Energy

Nuclear Power Deployment Scorecard

Powering Future Decades



U.S. Department of Energy
Office of Nuclear Energy

June 9, 2008

Updates available at
<http://www.nuclear.gov>

What's New

NRC accepted and docketed Southern Nuclear's COL application for two AP1000 reactors at the Vogtle site on June 9, 2008.

DTE Energy has selected the GE-Hitachi ESBWR design for Fermi Unit 3.

With acceptance of the Safety Analysis Report on June 5, 2008, UniStar's full COL application for Calvert Cliffs has been docketed by the NRC.

On May 30, NRC announced it will hold environmental scoping meetings on June 19 for the Grand Gulf COL.

On May 27, NRC announced it will hold environmental scoping meetings on June 10 for the Shearon Harris COL.

South Carolina Electric & Gas (SCE&G) and Santee Cooper signed an EPC contract with Westinghouse on May 27 for the design and construction of two AP1000 units at V.C. Summer in South Carolina.

Curtiss-Wright announced on May 6 that they have received purchase orders for 24 reactor coolant pumps (RCPs) for six US AP1000 units (4 pumps per reactor).

Progress Energy signed a letter of intent with Westinghouse and the Shaw Group on April 7th to purchase long lead components for two AP1000s.

Legend

-  Implementation proceeding according to plan and schedule
-  Progress being made; however, issues or uncertainties exist that could impede progress
-  Unlikely to realize objectives absent significant management attention
-  No dates or end state established
-  Indicates change in status or progress since last evaluation
-  Regulatory Demonstration completed. No further government assistance is warranted.

Nuclear Power Deployment Scorecard



Early Site Permit (ESP)

- Three site permits issued by NRC (*Clinton, Grand Gulf, North Anna*)
- One site permit application under NRC review (*Vogtle*)
- Submission of three other ESP applications expected in 2010-2012



Combined Construction and Operating License (COL)

License Applications Submitted to NRC

- Eight COLAs docketed (*STP, Bellefonte, Harris, Grand Gulf, North Anna, Lee, Calvert Cliffs, Vogtle*)
- One COL application submitted to NRC awaiting acceptance (*V.C. Summer*)
- Submission of 14 additional COLs expected in 2008-2010
- Three applications expected in the 3rd quarter (*Callaway, Comanche Peak, and Levy County*)

Licenses to Build Issued by NRC

- NRC anticipates issuing COL 42 months after docketing



Reactor Design Certification (DC)

- Two advanced reactor designs certified by NRC (*ABWR and AP1000*)
- Four reactor designs undergoing NRC certification review (*ESBWR, US-EPR, AP1000 amendment, and US-APWR*)



New Nuclear Plant Orders

Long-Lead Equipment Orders

- Nine utilities have ordered large, long-lead nuclear component forgings from three reactor vendors
- Twenty-four reactor coolant pumps have been ordered for AP1000 units
- Japan Steel Works is only manufacturer of ultra-large forgings; worldwide-capacity limited

Engineering, Procurement, and Construction Contracts (EPC)

- Two EPC contracts initiated (*Vogtle and V.C. Summer*)
- Plant engineering is in progress; completion required to start construction



New Nuclear Plant Construction, Operation, & Deferral

- No utility has committed to constructing a new advanced reactor
- TVA has resumed construction of Watts Bar Unit 2 with completion scheduled in 2013



Federal Financial Incentives

Standby Support (Risk Insurance)

- Final 10 CFR Part 950 Rule issued August 11, 2006
- Received first Notice of Intent to Request a Conditional Agreement - April 21, 2008

Production Tax Credits

- Internal Revenue Bulletin 2006-18 published May 2006
- Publish regulation for Production Tax Credit in FY08

Energy Facility Loan Guarantee

- Final 10 CFR Part 609 Rule amended January 18, 2008
- Solicitation for small scale loan guarantees closed December 2006
- Nuclear industry may begin applying for loan guarantees by mid to late 2008
- \$18.5 billion approved for loan guarantees for nuclear plants December 2007
- Implementation plan submitted to Congressional Committees April 11, 2008