

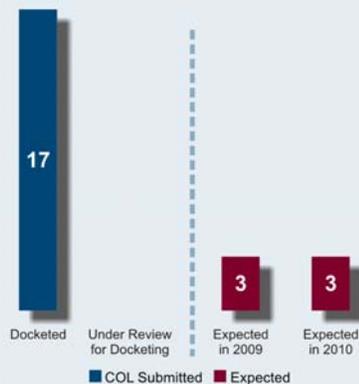
Quick Statistics

Early Site Permits issued	3
Permits under review	1
COL applications submitted	17
No. reactors submitted	26
COL applications docketed	17
No. reactors docketed	26
Total expected license applications	23
Expected number of reactors	34
Certified reactor designs	2
Reactor designs under review	4
Announced plant locations	21
Companies applying for COL	20

Number of Planned Reactors (34)



Status of License Applications (23)



Announced Nuclear Locations

- Amarillo (TX)—Amarillo Power
- Bell Bend (PA)—PPL (formerly Susquehanna)
- 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
- 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
- Turkey Point (FL)—Florida Power & Light
- Victoria County (TX)—Exelon Generation
- Vogtle (GA)—Southern Nuclear
- William States Lee III (SC)—Duke Energy

Vendor Technologies 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

February 9, 2009

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

What's New

NRC provided notices of intent to prepare Environmental Impact Statements (EIS) and hold public scoping meetings for the following COLs:

- Callaway on February 18
- Nine Mile on February 25

NRC held a public meeting on February 3 to discuss the supplemental EIS for the North Anna COL application, NUREG-1917.

Luminant and Mitsubishi Heavy Industries announced a joint venture February 2, 2009, to develop Comanche Peak during the period preceding issuance of a COL.

NRC suspended reviews of Entergy's COL applications at River Bend and Grand Gulf on January 12 in response to the applicant's request to consider alternatives to the ESBWR design.

Westinghouse and Shaw Group signed an EPC contract with Progress Energy January 5 for two AP1000 units in Levy County, Florida.

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

- Fourteen COLAs docketed and under review (*Bell Bend, Bellefonte, Callaway, Calvert Cliffs, Comanche Peak, Fermi, Harris, Lee, Levy Co., Nine Mile, North Anna, STP, Summer, Vogtle*)
- Three docketed COLAs suspended pending technology decision (*Grand Gulf, River Bend, Victoria Co.*)
- No outstanding COL applications pending acceptance
- Submission of 6 additional COLs expected in 2009-2010

Status of Reference R-COLs

- All five R-COLs have been submitted and are undergoing Phase 1 of the Safety Review (*Bellefonte, Calvert Cliffs, Comanche Peak, North Anna, South Texas Project*)

Reactor Design Certification (DC)

- Two advanced reactor designs certified by NRC (*ABWR and AP1000*)
- Four reactor designs undergoing NRC review (*ESBWR, US-EPR, AP1000 amend., 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
- Four steel containment shells and 24 reactor coolant pumps have been ordered for AP1000 units
- Two domestic large component facilities being built
- Japan Steel Works is the only manufacturer of ultra-large forgings; worldwide-capacity limited

Engineering, Procurement, and Construction Contracts (EPC)

- Four EPC contracts initiated (*Vogtle, V.C. Summer, STP and Progress*)
- 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
- One active Notice of Intent to Request a Conditional Agreement and a second notice has been withdrawn. One formal request under review by DOE.

Production Tax Credits

- Internal Revenue Bulletin 2006-18 published May 2006
- IRS considering revised guidance

Nuclear Power Loan Guarantees

- The Department is authorized, until September 30, 2009, to guarantee \$18.5 billion in loans for nuclear power projects. First NRC COL approval not expected before December 2010, beyond current authority period—authority extension needed to keep program viable.
- Fifteen power companies have submitted Part II applications by the December 19, 2008 deadline, requesting a total of \$93 billion in loans to be guaranteed. The applications cover 10 sites with a total of 16 reactors, capable of providing 22 GW in generating capacity.