

Quick Statistics

Early Site Permits issued	3
Permits under review	1
COL applications submitted	17
No. reactors submitted	26
COL applications docketed	11
No. reactors docketed	19
Total expected license applications	23
Expected number of reactors	34
Certified reactor designs	2
Reactor designs under review	4
Announced plant locations	20
Companies applying for COL	20

Number of Planned Reactors (34)



Status of License Applications (23)



Announced Nuclear Locations

- 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

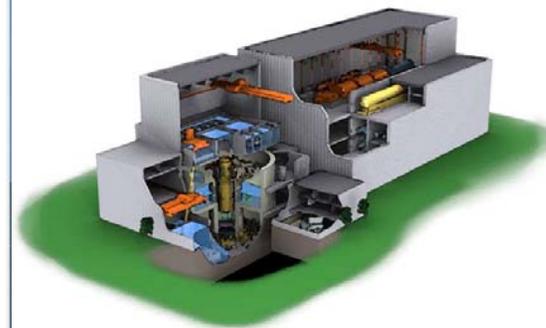
- United States Advanced Pressurized Water Reactor (US APWR) – 1,700 MWe



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

November 5, 2008

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

What's New

Japan Steel Works, Ltd. and Areva signed an 8 year procurement agreement for large forgings on November 4, 2008.

NRC docketed Exelon's COL application for two ESBWR reactors at Victoria County, Texas on October 31.

On October 31st DOE announced availability of its standard contract for the disposal of spent fuel and radioactive waste for companies intending to build new nuclear plants.

Chicago Bridge and Iron received a contract from Westinghouse to build the first two AP1000 containment structures.

NRC published an updated policy statement on advanced reactors October 14, providing guidance on safety, security and preparedness in the development of advanced reactors.

Areva and Northrop Grumman entered into an agreement on October 23 to build a facility in Newport News, Va. for the manufacture and engineering of heavy components for the EPR.

On October 10, NRC announced a hearing for the public to intervene in the SCE&G COL application at V.C. Summer.

NRC docketed Progress Energy's COL application for two AP1000 reactors in Levy County, FL on October 6, 2008.

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

- Eleven COLAs docketed (*Bellefonte, Calvert Cliffs, Grand Gulf, Harris, Lee, Levy Co., North Anna, STP, Summer, Victoria Co., Vogtle*)
- Six pending acceptance (*Bell Bend, Callaway, Comanche Peak, Fermi, Nine Mile, River Bend*)
- Submission of 6 additional COLs expected in 2009-2010; none in 2008



Status of Reference R-COLs

- All five R-COLs have been submitted; four (*Bellefonte, Calvert Cliffs, North Anna, South Texas Project*) have begun Phase 1 of the Safety Review
- Comanche Peak is undergoing NRC acceptance review for docketing



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
- Two steel containment shells and 24 reactor coolant pumps have been ordered for AP1000 units
- Two domestic large component facilities being built (by Areva and Westinghouse)
- Japan Steel Works is only manufacturer of ultra-large forgings; worldwide-capacity limited



Engineering, Procurement, and Construction Contracts (EPC)

- Three EPC contracts initiated (*Vogtle, V.C. Summer, and STP*)
- 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
- Two Notices of Intent to Request a Conditional Agreement and one formal request received by DOE



Production Tax Credits

- Internal Revenue Bulletin 2006-18 published May 2006



Energy Facility Loan Guarantee

- DOE issued solicitations for \$18.5 billion in loan guarantees for new nuclear facilities and \$2 billion for the nuclear fuel cycle on June 30, 2008
- Seventeen power companies have submitted 19 applications for 14 sites. Two companies have submitted loan guarantee applications for fuel cycle facilities.
- As construction cost estimates rise, authorized amount for loan guarantees may be insufficient to catalyze follow-on nuclear construction fully financed by the private sector