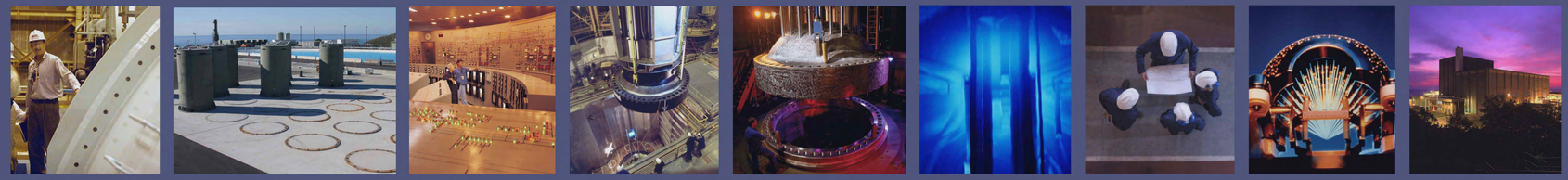
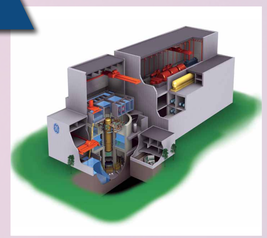
U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

RIC 2012



Office of New Reactors

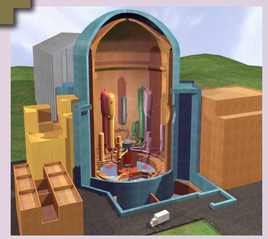
Proposed Locations of New Reactor Designs Under Review



Economic and Simplified Boiling Water Reactor

Features:
- 1390 MWe (Megawatt electric)
- Based on Simplified Boiling Water Reactor (BWR) and Advanced BWR
- Natural circulation
- Passive safety systems

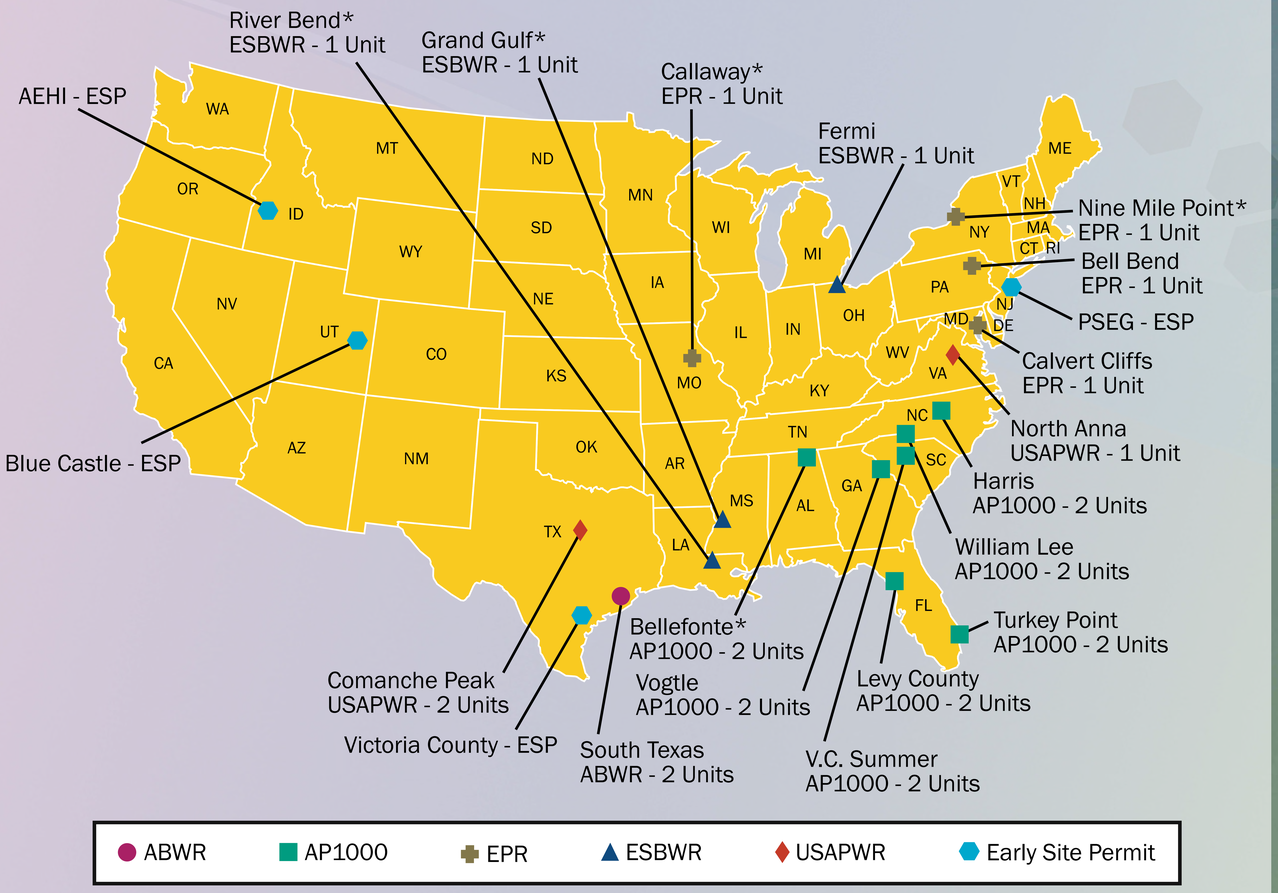
Certification Status:
- Review complete



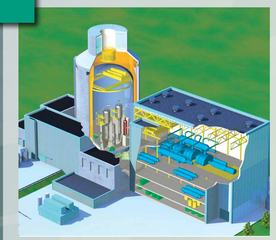
Evolutionary Power Reactor

Features:
- 1600 MWe
- Four 100 percent capacity engineered safety trains
- Double-walled containment

Certification Status:
- Review underway



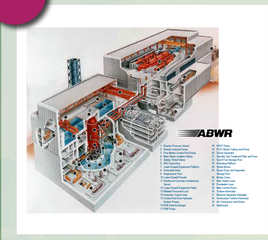
*Review Suspended by Applicant



Advanced Passive 1000

Features:
- 1117 MWe
- Passive containment cooling system with steel containment vessel and natural circulation air flow
- Gravity-drain core makeup tanks and refueling water storage tanks
- Natural circulation heat exchangers

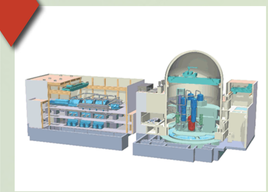
Certification Status:
- Certified December 2005
- Amendment review complete



Advanced Boiling Water Reactor

Features:
- 1350 MWe
- Vessel-mounted internal recirculation pumps
- Fine motion control rod drives
- Three full-train emergency core cooling systems

Certification Status:
- Certified May 1997
- Amendment review complete



U.S. Advanced Pressurized Water Reactor

Features:
- 1700 MWe
- Four-train configuration
- Redundant digital control systems
- In-containment refueling water storage pit

Certification Status:
- Review underway

Caution: NRC does not use modification code stickers. You must not scan or use a QR code if it appears to be manipulated or modified in any way or appears not to be part of the original printing of the material